LIGHTING POWER DROP. STUB CONDUIT INTO CEILING SPACE OF RECEIVING AREA. NOVAR PUSH-BUTTON OVERRIDE: INSTALL MANAGER'S NOVAR PUSH-BUTTON OVERRIDE, FURNISHED BY NOVAR. PROVIDE J-BOX, 1/2" CONDUIT TO 6" AFC WITH (1) 9 CONDUCTOR 18 GA CABLE TO NOVAR OPUS

RTU'S: SEE EQUIPMENT SCHEDULE ON SHEET E0.2.

EXTERIOR SIGNS: PROVIDE WEATHERPROOF J-BOXES AND CONNECTIONS VERIFY EXACT LOCATION AND REQUIREMENTS WITH SIGN MANUFACTURER 30. SALON DESK FEED: PROVIDE (2) 3/4"C FOR POWER AND DATA/PHONE AND PETSMART CONSTRUCTION MANAGER. CONTRACTOR TO PROVIDE AND COORDINATE ACCESS FOR POWER TO SIGN.

BATTERY CHARGER: SEE DETAIL 4/E2.2. RECIRCULATING PUMP (RP-1): PROVIDE TOGGLE DISCONNECT SWITCH FOR PUMP. LABEL SWITCH "PUMP". WALL MOUNT SWITCH ADJACENT TO PUMP.

COORDINATE WORK WITH MECHANICAL CONTRACTOR. EMERGENCY FIXTURE: 2-HEAD EMERGENCY LIGHT FIXTURE TO BE MOUNTED TO STRUCTURE ABOVE IN OPEN CEILING AREAS TO CREATE A

WATER HEATER DISCONNECTS: PROVIDE 30A/2P DISCONNECTS AND 3/4" FLEXIBLE SEAL TIGHT CONNECTIONS TO WATER HEATER. SEE DETAIL

). TIMER SWITCH: SEE DETAIL 7/E2.1. FLEXIBLE POWER DROP: SEE DETAIL 3/E2.0. COORDINATE WITH FIXTURE

MECHANICAL EQUIPMENT: PROVIDE POWER & CONNECTION TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL DETAILS. VERIFY

REQUIREMENTS WITH MECHANICAL CONTRACTOR. . FISH RACK LIGHTING: PROVIDE A WP J-BOX AND CIRCUITRY FOR FISH RACK LIGHTING, PROVIDED BY OTHERS. PROVIDE FINAL CONNECTIONS. I. DOOR SECURITY: SEE DETAIL 3/E2.1.

. DOOR HORN: PROVIDE HORN. CEILING MOUNT TO BOTTOM CHORD OF JOIST IN SALES AREA. WALL MOUNT OTHER AREAS AT HEIGHT INDICATED ON DRAWINGS. VERIFY LOCATION WITH PETSMART. CONNECT TO REAR PUSH-BUTTON AS SHOWN ON DRAWINGS (SEE KEY NOTE 20).

CHECKSTAND POWER POLE: SEE DETAILS 5/E2.1 AND 6/E2.1. . <u>DRYER RECEPTACLE:</u> SEE DETAIL 7/E2.1.

. MASTER BLASTER DRYER RECEPTACLE: PROVIDE RECEPTACLE WITH

WEATHERPROOF COVER. DOOR BUZZER: PROVIDE BUZZER, CEILING MOUNT TO BOTTOM CHORD OF JOIST IN SALES AREA. WALL MOUNT OTHER AREAS AT HEIGHT INDICATED ON DRAWINGS. VERIFY LOCATION WITH PETSMART. CONNECT TO FRONT PUSH-BUTTON AS SHOWN ON DRAWINGS (SEE KEY NOTE 20).

EXTERIOR DOOR PUSH-BUTTON: PROVIDE PUSH-BUTTON. CONNECT TO APPROPRIATE BUZZERS OR HORNS AS SHOWN ON DRAWINGS (SEE KEY

FIXTURE LIGHTING DROP: SEE DETAIL 5/E2.0. PROVIDE LIGHTING POWER DROP FOR FIXTURE SHELF LIGHTING. COORDINATE WITH PETSMART CM FOR SHELF LIGHT FIXTURES TYPE, QUANTITY AND LOCATIONS.

RIGID POWER DROP: COORDINATE WITH FIXTURE PLAN. VERIFY WITH PETSMART CONSTRUCTION MANAGER AND INSTALL. SENSOR/SWITCH SEQUENCE WIRING: ROUTE LIGHTING CIRCUIT WIRING HRU (1) CEILING MOUNTED OCCUPANCY SENSOR, (2) THRU TO WALL

SWITCH, (3) THEN TO LIGHT FIXTURE FOR A COMPLETE OPERABLE LIGHTING CONTROL SYSTEM. 4. SALES LIGHTING POWER DROP: PROVIDE POWER DROP AT THIS

LOCATION. COORDINATE WITH LIGHTING SUPPLIER. 5. SALES FIXTURE MOUNTING: PENDANT FIXTURES MOUNT AT 14'-0"AFF.

RECEIVING LIGHTS: MOUNT IN BETWEEN JOISTS ABOVE BOTTOM CHORD 26. SHELF LIGHTING OUTLETS: PRIOR TO INSTALLATION, EC TO COORDINATE WITH FIXTURE PLAN LAYOUT AND IF REQUIRED, EXTEND CONDUIT AND ADD

WITH 1/2" C. TO BOOSTER PUMP. VERIFY LOCATION WITH PLUMBING

28. HALO ILLUMINATED LETTERS: PROVIDE WEATHERPROOF JUNCTION BOX(ES). VERIFY EXACT MOUNTING HEIGHT WITH PETSMART CONSTRUCTION MANAGER.

29. EVENTS SIGNAGE: PROVIDE WEATHERPROOF JUNCTION BOX FOR "EVENTS" SIGNAGE. COORDINATE LOCATION AND MOUNTING HEIGHT WITH PETSMART CONSTRUCTION MANAGER.

CABLES, ROUTED BELOW FLOOR AS SHOWN. EXTEND FLEX CONDUIT FROM J-BOX TO OUTLETS IN CASEWORK. PATCH FLOOR TO MATCH EXISTING SURROUNDING SURFACE.

31. FISH AREA FIXTURE MOUNTING: PENDANT FIXTURES MOUNTED AT 12'-0" 32. FREEZER OUTLET: PROVIDE NEMA L14-20R, 20A RECEPTACLE (4-PRONG),

208-230V SINGLE PHASE. CONTRACTOR TO VERIFY THAT FREEZER OUTLET IS COMPATABLE WITH PLUG/CORD. 33. <u>DIGITAL BOARD:</u> PROVIDE JUNCTION BOX DIGITAL BOARD/LIGHTBOX. COORDINATE LOCATION AND MOUNTING HEIGHT WITH PETSMART

CONSTRUCTION MANAGER AND CONNECT TO CIRCUIT SHOWN. 34. <u>FUTURE CHECKSTAND:</u> PROVIDE EMPTY JUNCTION BOX WITH 1/2"C. AND PULL CORD MOUNTED IN JOIST SPACE FOR FUTURE CHECKSTAND POWER AND DATA WIRING. VERIFY EXACT LOCATION WITH PETSMART CONSTRUCTION MANAGER. STUB CONDUIT INTO CEILING SPACE OF FISH

35. COOLER OUTLET: PROVIDE NEMA L5-20P, 20A RECEPTACLE (3-PRONG), 120V SINGLE PHASE. CONTRACTOR TO VERIFY THAT COOLER OUTLET IS

COMPATABLE WITH PLUG/CORD. 36. AQUARIUM(S): PROVIDE 120V GFCI OUTLET AND CIRCUITRY FOR AQUARIUM EQUIPMENT PROVIDED BY OTHERS. VERIFY LOCATION AND

37. TURTLE TANK OUTLET: PROVIDE 120V, 20A GFCI OUTLET FOR TURTLE TANK. VERIFY LOCATION AND MOUNTING HEIGHT SHOWN WITH PETSMART

38. 8' STRAIGHT LV TRACK WITH ACCENT LED LUMINAIRES: PROVIDE LOW-VOLTAGE TRACK MANUFACTURED BY JUNO LIGHTING WITH WHITE FINISH. HANG SINGLE CIRCUIT TRACK (TL8WH) LEVEL AT 10'-0" AFF TO BOTTOM OF TRACK. PENDANT MOUNT TRACK FROM UNISTRUT WITH JUNO CABLE FEED KIT #TLR96-144-WH. FIELD MODIFY CABLE LENGTH TO ACHIEVE 10'-0" AFF. PROVIDE 90-DEGREE CORNER TRACK CONNECTORS (TLR24WH) FOR A CONTINUOUS TRACK SYSTEM. EC NOT TO CONNECT ETC AS REQUIRED FOR A COMPLETE TRACK SYSTEM.

"JOINER WIRES". PROVIDE ANY ADDITIONAL CONNECTORS, KITS, ENDCAPS 39. LED ELECTRONIC DRIVER/TRANSFORMER: PROVIDE SURFACE MOUNTED

 SURFACE MONOPOINT LED LUMINAIRE: PROVIDE SURFACE MONOPOINT ADAPTER WITH INTEGRAL ELECTRONIC TRANSFORMER (TL540U-WH) FOR MONOPOINT LED LUMINAIRE. MOUNT DIRECTLY TO OUTLET BOX, MOUNTED TO UNI-STRUT. ATTACH UNI-STRUT #P1000SL TO TOP OF BOTTOM CORD OF JOIST WITH APPROVED FASTENERS. ATTACH AT MINIMUM TWO JOIST.

10' STRAIGHT LV TRACK WITH ACCENT LED LUMINAIRES: PROVIDE LOW-VOLTAGE TRACK MANUFACTURED BY JUNO LIGHTING WITH WHITE FINISH. HANG SINGLE CIRCUIT TRACK, (1) 6-FT (TLR6WH) (1) 4-FT (TLR4WH) WITH STRAIGHT TRACK CONNECTOR (TLR23WH), LEVEL AT 10'-0" AFF TO BOTTOM OF TRACK. PENDANT MOUNT TRACK FROM UNISTRUT WITH JUNO CABLE FEED KIT #TLR96-144-WH. FIELD MODIFY CABLE LENGTH TO ACHIEVE 10'-0" AFF. PROVIDE ANY ADDITIONAL CONNECTORS, KITS, ENDCAPS, ETC AS REQUIRED FOR A COMPLETE TRACK SYSTEM. "NATURALS" AREA CIRCUIT: 120/12-VOLT TRACK AND MONOPOINT LIGHTING TO BE CIRCUITED THRU EMS TO PANEL LA2.

ELECTRICAL SYMBOLS LIST ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT.

MOTORIZED DAMPER.

MOTOR - SIZE AS INDICATED ON DWGS DISCONNECT SWITCH - SIZE AND FUSES AS PER DUPLEX GFI RECEPTACLE: 20A HUBBELL GFR5362SGW 18" TO CENTER UNO, WHITE

• FOURPLEX RECEPTACLE - (2) 20A DUPLEX 18" TO CENTER • H.P. RATED MANUAL MOTOR STARTER (WP WHERE

NOTED. 20A, HUBBELL 1221- PLC/1221-PLC C7 PANELBOARD - MOUNT AT 6'-6" TO TOP

• COMPUTER RECEPTACLE AT 18" AFF TO CENTER UNO, DOOR CONTACT, SEE DETAIL 3/E2.1 • TELEPHONE BOX & WHITE COVER PLATE AT 18" AFF TO

CENTER UNO. PROVIDE 3/4" CONDUIT WITH PULL STRING DATA BOX & WHITE COVER PLATE AT 18" AFF TO CENTER TELCO REQUIREMENTS. SIZE AS NOTED UNO, (1) 3/4" CONDUIT EXTENDED 6" AFC OR TO ROOF

 DATA TELEPHONE BOX & WHITE COVER PLATE AT 18" AFF TO CENTER UNO. PROVIDE 3/4" CONDUIT WITH PULL STRING TO 6" A.F.C.

 JUNCTION BOX IN ACCESSIBLE LOCATION JUNCTION BOX MTD. IN JOIST AREA. CONDUITS

SINGLE RECEPTACLE: 20A HUBBELL HBL5361W 18" TO

DUPLEX RECEPTACLE: 20A HUBBELL HBL5362W (NEMA)

FOURPLEX GFI RECEPTACLE - (2) 20A DUPLEX 18" TO

SPECIAL RECEPTACLE AS NOTED ON DRAWINGS 18" TO

5-20R) 18" TO CENTER UNO, WHITE

CENTER UNO

CONNECTED BETWEEN SUCH BOXES SHALL BE ROUTED IN • CIRCUIT IN CONDUIT RUN BELOW SLAB

HUBBELL #IG5362 ORANGE

CIRCUIT IN CONDUIT CON-CEALED IN WALLS OR ABOVE

 HOMERUN TO PANELBOARD OR AS NOTED PUSH-BUTTON - EDWARDS #C59, LOW VOLTAGE (24V), 1-PHASE., 4A - AC, FLUSH MOUNTED AT 44" AFF

 NOVAR PUSH-BUTTON OVERRIDE - FURNISHED BY NOVAR, INSTALLED & WIRED BY EC SPEAKER, BY OTHERS - NO CONDUIT STUB NEEDED

 HORN, BY OTHERS - NO CONDUIT STUB NEEDED DOOR BUZZER EDWARDS #1065-G5, 24V, 6 WATT, WITH LOUVERED COVER PLATE

 DOOR HORN EDWARDS #123A-G5, 24V, 4.8 WATT • CONDUIT TURNING DOWN

CONDUIT TURNING UP

● VOLUME CONTROL, BY OTHERS - PROVIDE SINGLE GANG BOX AT 48" AFF UNO & 1/2" CONDUIT TO CEILING SPACE

 MOTOR CONTROLLER - PROVIDED BY EC. SIZE AS NOTED MOTOR CONTROLLER - FURNISHED WITH MOTOR

MANUFACTURER'S RECOMMENDATIONS (WP WHERE

SP • SINGLE POLE SWITCH W/PILOT LIGHT AT 44" AFF OR AS

WATER FLOW SWITCH ⟨TS⟩ • TAMPER SWITCH

3/4" PLYWOOD TELEPHONE MOUNTING BOARD WITH #6 CU. GROUND AND DEDICATED DUPLEX CONV. RECEPTACLES AS SHOWN ON PLANS. FURNISH IN ACCORDANCE WITH

WP • WEATHERPROOF (RAIN TIGHT) SES • SERVICE ENTRANCE SECTION EDF • ELECTRIC DRINKING FOUNTAIN

UNO • UNLESS NOTED OTHERWISE C • CONDUIT

EF • EXHAUST FAN - 150 WATT, 120V. UNLESS OTHERWISE

GFCI • GROUND FAULT CIRCUIT INTERRUPTER IG • ISOLATED GROUND SACP • SPRINKLER ALARM CONTROL PANEL

(D) • DUCT SMOKE DETECTOR

(S) • SENSOR - SEE MECHANICAL & ELECTRICAL SHEETS FOR EXACT LOCATIONS. SENSORS (GENERAL) AT 90" AFF. COMBINATION TEMPERATURE / HUMIDITY SENSOR - SEE

(T) • ADJUSTABLE THERMOSTAT - SEE MECHANICAL PLAN FOR EXACT LOCATIONS. SENSORS (GENERAL) AT 90" AFF.

NOVAR HUMIDITY SENSOR - SEE MECHANICAL PLAN FOR EXACT LOCATION. SENSORS (GENERAL) AT 90" AFF. NOVAR TEMPERATURE SENSOR - SEE MECHANICAL PLAN

MECHANICAL PLANS. SENSORS (GENERAL) AT 90" AFF.

FOR EXACT LOCATION. SENSORS (GENERAL) AT 90" AFF.

AFC • ABOVE FINISH CEILING

WEATHERPROOF COVERS: FOR DUPLEX RECEPTACLES 'HUBBELL' MODEL No. WP826MP - VERTICAL MOUNT, 'HUBBELL' MODEL No. WP826MHP HORIZONTAL MOUNT, FOR SINGLE RECEPTACLES 'TAYMAC' MODEL No. MM410C.

LIGHTING SYMBOLS: ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT

 1x4 LED LIGHT. SINGLE POLE TOGGLE SWITCH MOUNTED AT 48" A.F.F. TO CENTER, UNO. HUBBELL #1221W, 1X4 NIGHT LED LIGHT 2x4 LED LIGHT. SINGLE POLE DIMMER SWITCH MOUNTED AT 48" A.F.F. TO CENTER, UNO. LEVITON #81000-W, 2X4 NIGHT LED LIGHT. 20A, 120V, 1000W, UNO. THREE WAY TOGGLE SWITCH MOUNTED AT 48" 8'-0" LINEAR LED NIGHT LIGHT. A.F.F. TO CENTER, UNO. HUBBELL #1223W, 20A,

 4'-0" LINEAR NIGHT LED LIGHT. HORN AND SPEAKER - REFER TO E2 & ETD ■ 8'-0" LINEAR LED LIGHT SYMBOLS LISTS FOR FURTHER INFORMATION. 4'-0" LINEAR LED LIGHT NL • NIGHT LIGHT WIRED TO BE UNSWITCHED

 WALL MOUNTED LIGHTING. EMERGENCY WIRED TO BE UNSWITCHED RECESSED LED DOWN LIGHT. FIXTURE, UNO. EXTERIOR WALL MOUNTED FIXTURE. **\$**_M • MOTION SENSOR WALL SWITCH-MAESTRO MODEL #MS-VPS6M2-DV-WH MOUNTED AT 48" \bigotimes $\downarrow \bigotimes \downarrow$ $\downarrow \bigotimes$ • EXIT SIGNS (PENDANT MOUNTED) A.F.F. TO CENTER OR AS NOTED.

> CEILING MOTION SENSOR - 'SENSOR SWITCH' MODEL #CMR-PDT9-W, LINE VOLTAGE

2x2 LED LIGHT

2x2 NIGHT LED LIGHT

WALL DEVICES & COVER PLATE FINISHES

EXIT SIGNS (WALL / BULKHEAD MOUNTED)

CEILING OR WALL 2-HEAD EMERGENCY FIXTURE

ALL WALL DEVICES (RECEPTACLES, SWITCHES, DATA OUTLETS, ETC) AND COVER PLATES TO BE WHITE, EXCEPT

- MECHANICAL ROOMS AND SIMILAR AREAS WITH EXPOSED CONDUIT TO HAVE GALVANIZED STEEL COVER PLATES.

- SALON TO HAVE GRAY RECEPTACLES (LEVITON #MT163) WITH #MSTWL-A LEV-LOK WIRING DEVICE AND STAINLESS STEEL

- IG RECEPTACLES TO BE ORANGE.

ELECTRICAL GENERAL NOTES:

- ALL LED AND/OR FLUORESCENT LAMPS NOT INCLUDED WITH
- ALL LAY-IN FIXTURES SHALL BE FURNISHED WITH "FIXTURE SUPPORT
- CLIPS" PER NEC SECTION 410. OFFSET LIGHT FIXTURES AS NEEDED TO CLEAR STRUCTURAL BRIDGING ACROSS STORE.
- ADJACENT DOOR FRAMES AT A.D.A. HEIGHTS. COORDINATE LOCATIONS WITH ALL FIXTURES/EQUIPMENT.
- ALL LIGHTING SHALL BE CIRCUITED AS SHOWN TO ALLOW MULTI-LEVEL SWITCHING FOR ENERGY MANAGEMENT CONTROL, SEE SHEET EM2. CONDUIT AND PIPING SHALL BE ROUTED PARALLEL WITH WALLS IN

MAIN SALES AND RECEIVING. RUNS SHALL BE GROUPED TOGETHER

WHERE PRACTICAL & HOLD AS HIGH AS POSSIBLE AND SUSPEND TIGHT TO THE TOP CORD OF JOIST. PROVIDE ZERO DEGREE BALLASTS FOR FIXTURES LOCATED OUTSIDE. ALL ELECTRICAL CONDUITS/WIRING MUST RUN OVERHEAD (UNO)

HILL PHOENIX 'POWERPLUS' GENERAL NOTES AND CRITICAL DESIGN REQUIREMENTS

- UNLESS REQUIRED TO RUN UNDERGROUND. ANY EXCEPTIONS MUST BE APPROVED BY PETSMART CONSTRUCTION MANAGER. SNAP SWITCHES THAT ARE GROUPED OR GANGED IN AN ENCLOSURE WITH OTHER SNAP SWITCHES OR SIMILAR DEVICES THAT THE VOLTAGE BETWEEN THE ADJACENT DEVICES EXCEEDS 300 VOLTS, MUST HAVE A PERMANENT BARRIER INSTALLED BETWEEN THE ADJACENT DEVICES PER THE N.E.C.
- 11. GENERAL CONTRACTORS SHALL CONTACT F.E. MORAN INC. ALARM
- OF OUTLETS. FOR PHONE AND DATA.
- 19. PROVIDE CONDUIT FOR LOW VOLTAGE WIRING WHEN REQUIRED BY CODE. TERMINATE PHONE & DATA WIRING AT PETSMART SERVER
- LOCATION. ALARM PACKAGE: THE ALARM PACKAGE WILL REQUIRE AN AVERAGE LOCAL REQUIREMENTS AND FINAL STORE DESIGN. ALL CEILING MOUNTED ALARM & INTRUSION DEVICES WILL REQUIRE A BACK BOX PROVIDED BY THE EC. ANY QUESTIONS, CONTACT NATIONAL ACCOUNT VENDOR - F.E. MORAN, INC. ALARM. (866) 472-6450 - SEE ARCHITECTURAL DRAWING F2.0 PRODUCT SCHEDULE.

- FOR NATIONAL ACCOUNT BID PRICING ON FIRE AND BURGLAR ALARM SYSTEMS - SEE SPECIFICATIONS. 12. PROVIDE (2) PULL STRINGS IN EACH EMPTY CONDUIT FOR DATA &
- 14. SEE ARCHITECTURAL ELEVATION DRAWINGS FOR EXACT PLACEMENT ALL LIGHT SWITCHES SHALL BE LOCATED AS CLOSE AS POSSIBLE TO 15. E.C. TO VERIFY EXACT CONDUIT SIZE PRIOR TO ROUGH-IN OF BOXES
 - 16. WHERE CONDUITS, DEVICE BOXES, ETC... ARE SURFACE MOUNTED, SEAL ALL PENETRATIONS WITH SIKA, SIKAFLEX 1A POLYURETHANE SEALANT.
- FIXTURES ARE FURNISHED BY THE GENERAL CONTRACTOR THROUGH PROVIDE FIXTURE SAFETY CHAINS WHERE REQUIRED. PHONE BOXES.
 - 13. REFER TO "EM" SHEETS FOR SENSOR MOUNTING.
 - 17. NOT USED. 18. SEE SHEET #E0.1 FOR ONE LINE DIAGRAM KEYED NOTES.
 - OF 15 CONDUIT DROPS WITH BOXES, AND 35 BACK BOXES (ONLY) FOR CEILING MOUNTED DEVICES - THIS IS SUBJECT TO CHANGE BASED ON

- THE POWERPLUS INTEGRATED ELECTRICAL WALL SHALL BE DELIVERED AS A SINGLE UNIT WITH NO SHIPPING SPLITS. THIS INSURES THAT ALL INTERNAL CONDUCTORS ARE TERMINATED PROPERLY AND NO EXTRA FIELD LABOR IS REQUIRED TO RECONNECT CABINET SECTIONS OR TO RECONNECT COILED UP CONDUCTORS.
- PROVIDE A MAXIMUM OF 9'-0" PRODUCT WIDTH TO MEET THE FOOTPRINT REQUIREMENTS (INCLUDES N.E.C. CODE CLEARANCE). TOP LIFT PROVISIONS FOR EASE OF LIFTING AND SETTING "POWERPLUS" PRODUCT AGAINST BUILDING WALL. THE ESTIMATED PRODUCT WEIGHT IS 1800 LBS.
- "POWERPLUS" PRODUCT WILL BE DELIVERED WITH THE TRANSFORMER LOOSE.

ELECTRICAL CONTRACTOR NOTE: EC SHALL BE RESPONSIBLE FOR THE PURCHASE OF HILL- PHOENIX'S "POWERPLUS" PRODUCT AND LOOSE PANELS INDICATED. EC SHALL PROVIDE PURCHASE ORDER TO HILL-PHOENIX A MINIMUM OF 8 WEEKS PRIOR TO DELIVERY REQUIREMENTS (TO GUARANTEE A MANUFACTURING SLOT IN THE SCHEDULE TO MEET REQUESTED DELIVER DATE). CONTACT HILL-PHOENIX AT (770) 285-3251 OR 1-800-518-6630 EXT. 3251, FAX (770) 285-3252 OR VIA E-MAIL:

edppetsmart@hillphoenix.com FOR PURCHASING/DELIVERY/PRODUCT

WEEKS PRIOR TO DELIVERY TO CONFIRM DELIVERY AND OBTAIN SITE

COORDINATION REQUIREMENTS. NOTE: CONTACT HILL-PHOENIX 2

- SPECIFIC PRODUCT DRAWINGS (FINAL EQUIPMENT LOCATIONS -STUB-UP COORDINATION). EC RESPONSIBLE TO RE-TORQUE ALL PRE-WIRED FEEDER/BRANCH CIRCUIT TERMINATIONS UPON DELIVERY OF "POWERPLUS" PRODUCT. EC RESPONSIBLE FOR OFF LOADING AND SETTING PREFABRICATED POWERPLUS" PRODUCT WHEN IT ARRIVES ON SITE REFER TO
- "POWERPLUS" CRITICAL DESIGN REQUIREMENTS (NOTES 2 & 3) FOR ADDITIONAL INFORMATION. EC IS RESPONSIBLE TO OBTAIN QUOTES FROM HILL-PHOENIX,
- GRAYBAR ELECTRIC, AND NOVAR CONTROLS. ALL ELECTRICAL CONDUITS/WIRING MUST RUN OVERHEAD (UNO) UNLESS REQUIRED TO RUN UNDERGROUND. ANY EXCEPTIONS MUST

BE APPROVED BY PETSMART CONSTRUCTION MANAGER.

REQUEST OF THE REQUIRED ON-SITE DATE. USE CONTACT INFORMATION FURNISHED IN #1 ABOVE. EC TO CONTACT HILL-PHOENIX TO OBTAIN SITE SPECIFIC DRAWINGS. DRAWINGS IN PLANS ARE FOR ESTIMATING PURPOSES ONLY. HILL-PHOENIX WILL PROVIDE A SET OF "AS-BUILT" DRAWINGS TO THE SUCCESSFUL EC, SO ACCURATE ROUGH-IN COORDINATION CAN BE

EC IS RESPONSIBLE TO GIVE HILL-PHOENIX A 6 WEEKS WRITTEN

EC IS RESPONSIBLE TO DETERMINE IF AN EXTERIOR MEANS OF DISCONNECT IS REQUIRED. IF SO, PLEASE REFER TO THE OPTIONS SECTION IN THE HILL-PHOENIX PROPOSAL TO CHOOSE THE PRICE ADDER FOR A SHUNT TRIP OR FUSIBLE DISCONNECT.

SYMBOL LEGEND:

- FURNISHED BY HILL PHOENIX WITHIN "POWERPLUS" PRODUCT WITH EQUIPMENT INSTALLED AND FACTORY WIRED. NOTE: EC SHALL WALL MOUNT AND RE-TORQUE
- ALL CONNECTIONS. E PROVIDED BY EC

L PROVIDED BY LANDLORD

PE FURNISHED BY HILL PHOENIX, INSTALLED BY EC

XFMR TO BE PROVIDED BY HILL PHOENIX, SHIPPED LOOSE FOR E.C. TO SET AND CONNECT ONLY. WIRING/FITTINGS PROVIDED) CONDUCTORS IN CONDUIT - STEEL PAD PROVIDED AS "POWERPLUS" PRODUCT PART OF "POWERPLUS" **ENCLOSURE BY HILL** FOR MOUNTING CONDUCTORS F PHOENIX (INCLUDES ALL OVERHEAD EQUIPMENT **EXTERIOR** IN CONDUIT ' EQUIPMENT SHOWN IN ___24 E ENCLOSURE) WALL— L - - - - - - - - - - - - - - -------**GENERATOR BOX EMS** P 28 GA PE LB PE **MDP** P 12

ONE LINE DIAGRAM KEYED NOTES:

- SERVICE: POWER COMPANY TRANSFORMER. VERIFY AVAILABLE FAULT CURRENT WITH UTILITY COMPANY. PRIMARY SERVICE: CONDUIT SIZE PER UTILITY
 COMPANY PRIMARY FEED. COORDINATE ROUTING AND
- TRANSFORMER PAD: 6" MINIMUM CONCRETE. VERIFY EXACT REQUIREMENTS WITH UTILITY COMPANY, PRIOR

REQUIREMENTS WITH POWER CO. PRIOR TO BID.

- 600A SERVICE: (2) 3-1/2" C. EACH WITH (4) #350 (XHHW). VERIFY FEEDER REQUIREMENTS WITH UTILITY COMPANY, PRIOR TO BID. <u>C/T CABINET:</u> EXTERIOR C/T CABINET (PROVIDE PER UTILITY COMPANY REQUIREMENTS).
- UTILITY METER: UTILITY COMPANY METER. COORDINATE WITH UTILITY COMPANY. ENERGY MONITORING METER: VERIS WATT TRANSDUCER & PHASE LOSS MONITOR KW PULSE METER PROVIDED, INSTALLED, & WIRED BY HILL
- NOVAR CONTROLLER: TO NOVAR OPUS XCU 10 CONTROLLER. MAIN BONDING JUMPER: PROVIDE #2/0 CU.

PHOENIX IN POWERPLUS ENCLOSURE.

- GROUND BOND: PROVIDE #2/0 CU., BOND TO COLD WATER MAIN AND BUILDING STEEL, EXTEND SYSTEM GROUND TO SPRINKLER. GROUND ROD: PROVIDE (20') - #1/0 CU GROUNDING ELECTRODE (20' IN CONCRETE FOOTING) PER N.E.C.
- MDP: SEE MDP SCHEDULE. PHASE LOSS MONITOR: PROVIDED BY HILL PHOENIX - INSTALLED WITHIN THE PREFABRICATED "POWERPLUS"
- PHASE LOSS FEEDER: (3)#12 THHN CU, 1/2"C. SEE SHEET EM2 FOR CONNECTION REQUIREMENT. CONDUCTOR LENGTH SHALL BE 12' MINIMUM.

PRODUCT. (1) 2 CONDUCTOR 18 GA. TO SAVVY

100A "HA" FEEDER: (4) #3 (XHHW) CU., (1) #8 CU. GROUND DISTRIBUTION TRANSFORMER: 150 KVA XFMR. PRI: 480V DFI TA. SEC: 120/208 WYE, 150°C RISE. PROVIDE TP-1 ENERGY EFFICIENT TRANSFORMER.

17. TRANSFORMER GROUND: #1/0 CU. GROUND TO BUILDING

GROUND, (1) #6 ISOLATED GROUND, (IN 2" C. OUTSIDE

- 18. TRANSFORMER FEEDER: (3) #4/0 KCMIL (XHHW) CU., (1) #4 CU. GROUND, 2-1/2"C. 19. 150A "LA1" FEEDER: (4)#1/0 (XHHW) CU., (1) #6 CU.
- 20. <u>60A "LB" FEEDER:</u> (4) #6 (XHHW) CU, (1) #8 CU GROUND, (1) #8 ISOLATED GROUND, (IN 1-1/2" C. OUTSIDE OF HILL-PHOENIX ENCLOSURE). . SERVICE ENTRANCE DISCONNECT. SERVICE ENTRANCE RATED 600A-3P-480V WP FUSED DISCONNECT.

OF HILL-PHÓENIX ENCLOSURE).

22. NOT USED. 23. J-BOX: FOR AQUARIUM EQUIPMENT BY OTHERS.

24. 60A AQUARIUM FEEDER: (3) #6 (XHHW), (1) #10 GROUND,

- 25. METER WIRING: ROUTE SERVICE FEEDERS THRU CT'S FOR VERIS WATT TRANSDUCER PULSE METER
- 26. <u>600A SERVICE FEEDER WITH GROUND</u>: 2- SETS (4) 350 (XHHW), 1#1/0 CU GROUND, (2) 3-1/2"C. 27. ISOLATED GROUND: TERMINATE CONDUCTORS ON POWERWALL GROUND BUS. 28. EMS: NOVAR/MISC CONTROL EQUIPMENT FURNISHED INSTALLED AND WIRED BY HILL PHOENIX INTERNAL TO "POWER PLUS" PRODUCT. EQUIPMENT TO INCLUDE:

TRANSFORMERS, RELAYS/BASES & COMPUTER SHELF.

REFER TO ENERGY MANAGEMENT DRAWINGS EM1, EM2 & E2.2 FOR ADDITIONAL INFORMATION. 125A/3P CIRCUIT BREAKER & FEEDER: 208V, 10K A.I.C CIRCUIT BREAKER FOR SERVICE TO REMOTE (LOOSE) PANEL AS INDICATED. FEEDER SHALL BE (4) #1(XHHW) CU.. (1) #6 CU. GROUND, (1) #6 ISOLATED GROUND, (IN 2"

CONDUIT OUTSIDE OF HILL-PHOENIX ENCLOSURE).

OPLIS LTG CONTACTORS CONTROL POWER

30. GENERATOR CONNECTION: FOR TEMPORARY CONNECTION TO GENERATOR (NOT IN CONTRACT). . <u>100A "LA2" FEEDER</u>: (4) #3 (XHHW) CU., (1) #8 CU. GROUND.

AMPS FEEDER SIZE GROUND CONDUI #12 #12 3/4" #12 #12 #10 3/4" #10 #10 #10 #10 3/4" #10 #10 #10

3/4"

1-1/4"

#10

MINIMUM WIRE & CONDUIT

SIZES FOR CIRCUIT

BREAKERS AND FUSES

1-1/4" PROVIDE THE FOLLOWING QUANTITIES: POLE CIRCUIT - 1 HOT, 1 NEUTRAL, 1 POLE CIRCUIT - 2 HOT, 1 GROUND POLE CIRCUIT - 3 HOT, 1 GROUND 1 POLE IG CIRCUIT - 1 HOT, 1 NEUTRAL, 1

GROUND, 1 ISOLATED GROUND.

#3

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Checked: **WHS**

ဂ္ဂ	M	DUNT:	FLUSI	Н	120	/208	3-PHASE, 4W	P	ANEL		F	C	CAPACITY:	200A		INT	CAP:	10KA		T C N
NOTES	LOCA	TION:	FISH I	EQUIPI	MENT '	108		LU	JGS:		MLC)	DEMAND LOAD:	81A		AV. F	AULT:	7.0KA		
_	CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	ф	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	1
	1		0.54				REC FISH, ADOPTION	20	1	Α	20	1	SPARE						2	T
	3				8.0		POWER DROP	20	1	В	20	1	AQUARIUMS				1.50		4	(
	5		0.54				REC REFRIGERATOR	20	1	С	20	1	EXHAUST FAN 3			0.87			6	Г
	7		0.75				REC FISH DEPARTMENT	20	1	Α	20	1	POWER DROP				0.80		8	Г
	9		1.00				REC FISH DEPARTMENT	20	1	В	20	1	POWER DROP				0.80		10	Г
	11		1.00				FILTRATION SYSTEM	20	1	С	20	1	POWER DROP HABITAT				0.80		12	Г
	13				0.80		POWER DROP	20	1	Α	20	1	POWER DROP				0.80		14	Г
	15				0.80		POWER DROP	20	1	В	20	1	LTG FISH TANKS	0.9					16	(
	17				0.80		POWER DROP HABITAT	20	1	С	20	1	LTG FISH TANKS	0.9					18	(
	19				0.80		POWER DROP HABITAT	20	1	Α	20	2	EUH-2					0.75	20	
	21					1.50	EUH-1	20	2	В	20	2	LOTI-2					0.75	22	
	23					1.50	LOTE	20		С	20	1	REC TURTLE TANK		0.7				24	
	25						SPARE	20	1	Α	20	1	MOTOR DAMPER 1&2			0.04			26	
	27				5.31		SUB-FEED AQUARIUM	60	2	В	20	1	SPARE						28	
	29				5.31		EQUIP	-	_	C	20	1	DIGITAL BOARDS				1.00		30	(
	31						SPARE	20	1	Α	20	1	REC FREEZER		1.2				32	L
	33						SPARE	20	1	В	20	1	SPARE						34	
	35						SPARE	20	1	C	20	1	SPARE						36	
	37						PROVISIONS			Α	20	1	SPARE						38	L
	39						PROVISIONS			В	20	1	SPARE						40	L
	41						PROVISIONS			C	20	1	SPARE						42	L
	DL	IASE E	A	CE	LOAD	TYPE	CONNECTED		DEM/	ND		DEM A	AND FORMULA				TOTAL	LOAD		
	7	IASE E	ALAN	CE	LIGH	TING	1.9 KVA		2.4 K	VA		LOAD	X 125% NEC 210.19 CONT	INUOU	S	CONN	ECTED	DEM	AND	1
	Φ LOAD %		RECEP	TACLE	5.7 KVA		5.7 K	VA		10KV	A + 50% REMAINDER NEC 2	220.44		33.3	KVA	29.1	KVA	1		
	A 6.5 KVA 19%			19%	HV	AC	0.9 KVA		0.7 K	VA		LOAD	X 80% (USED MCA IN CAL	CULAT	TION)	92.	5A	80.	8A	
	В	13.4	KVA	40%	MI	sc	20.3 KVA		20.3 k	(VA		LOAD	X 100% NEC 210.19 NON-	CONT.			FILEN	AME:		1
	С	13.5	KVA	40%	N	P	4.5 KVA		0.0 K	VA		O NON	NCOINCIDENTAL LOADS NE	EC 220.	60	Frankli	n LOAE	XLSM		

B. PROVIDE WITH ISOLATED GROUND BUS

C. NOTES: GF-GFCI CIRCUIT BREAKER; HL-HANDLE LOCK-ON DEVICE; CC-CIRCUIT VIA CONTACTOR

PLAN EQUIPMENT VOLT/ FED DISC													
PLAN MARK	EQUIPMENT SERVED	LOAD	VOLT/ PHASE	FED BY	DISC BY	MCA	MOCPD	FEEDER	REMARKS				
RTU 1	ROOF TOP UNIT	11.64KVA	480/3	MDP	МС	14.0A	15A	(3)#12,#12G 1/2"C	CIRCUIT VIA "BOTTOM POWER ENTRY" KIT. COORDINATE WORK WITH RTU INSTALLER (TYPICAL)				
RTU 2	ROOF TOP UNIT	11.64KVA	480/3	MDP	МС	14.0A	15A	(3)#12,#12G 1/2"C	(TYPICAL)				
RTU 3	ROOF TOP UNIT	11.64KVA	480/3	MDP	МС	14.0A	15A	(3)#12,#12G 1/2"C	(TYPICAL)				
RTU 4	ROOF TOP UNIT	18.29KVA	480/3	MDP	МС	22.0A	25A	(3)#10,#10G 1/2"C	(TYPICAL)				
RTU 5	ROOF TOP UNIT	9.98KVA	480/3	MDP	МС	12.0A	15A	(3)#12,#12G 1/2"C	(TYPICAL)				
RTU 6	ROOF TOP UNIT	18.29KVA	480/3	MDP	МС	22.0A	25A	(3)#10,#10G 1/2"C	(TYPICAL)				
RTU 7	ROOF TOP UNIT	18.29KVA	480/3	MDP	МС	22.0A	25A	(3)#10,#10G 1/2"C	(TYPICAL)				
RTU 8	ROOF TOP UNIT	12.47KVA	480/3	MDP	МС	15.0A	20A	(3)#12,#12G 1/2"C	(TYPICAL)				
RTU 9	ROOF TOP UNIT	11.64KVA	480/3	MDP	МС	14.0A	15A	(3)#12,#12G 1/2"C	(TYPICAL)				
WH-1	WATER HEATER	12.00KVA	480/1	НА	EC	25.0A	30A	(2)#10,#10G 1/2"C	SEE 2/E2.1				
WH-2	WATER HEATER	12.00KVA	480/1	НА	EC	25.0A	30A	(2)#10,#10G 1/2"C	SEE 2/E2.1				

S	M	OUNT:	PWRF	PLUS	277	480	3-PHASE, 4W	P	ANEL		Н	Α	CAPACITY:	100A		INT	ГСАР:	65KA		S
OTES	LOCA	TION:	RECE	IVING '	112			LU	JGS:		ML)	DEMAND LOAD:	56A		AV. F	AULT:	44KA		NOTES
Ž	СКТ	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	ф	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	2
CC	1	4.12					LTG-SALES	20	1	Α	20	1	L-OFFICE, SUPP AREAS	1.92					2	CC
CC	3	3.38					LTG SALES	20	1	В	20	1	LTG-R.R., SUPP AREAS	0.40					4	CC
HL	5	0.57					LTG EMERG/NIGHT LIGHT	20	1	O	20	1	SPARE						6	
CC	7	1.3					LTG-RCV'G AREA	20	1	Α	20	1	LTG-EXTERIOR	0.31					8	CC
CC	9	4.2					LTG-SALES	20	1	В	20	1	SPARE						10	
	11						SPARE	20	1	С	20	1	SPARE						12	
	13						SPARE	20	1	Α	20	1	SPARE						14	
	15						SPARE	20	1	В	20	1	SPARE						16	
	17						SPARE	20	1	С	30	2	WH-1				6.0		18	
	19				0.7					Α							6.0		20	
	21				0.7		DOCK LEVELER	15	3	В	30	2	WH-2				6.0		22	
	23				0.7					С							6.0		24	
	_{DL}	HASE E	AL AND	CE	LOAD	TYPE	CONNECTED		DEMA	ND)	DEM/	AND FORMULA				TOTAL	LOAD)	
	"	IASE E	ALAN	CE	LIGH	TING	16.2 KVA		20.3 k	(VA		LOAD	X 125% NEC 210.19 CONT	INUOUS		CONN	ECTED	DEM	IAND	
	ф	LO	AD	%	RECEP	TACLE	0.0 KVA		0.0 K	VA		10KV	A + 50% REMAINDER NEC 2	20.44		42.3	KVA	46.4	KVA	1
	Α	14.4	KVA	34%	HV	AC	0.0 KVA		0.0 K	VA		LOAD	X 80% (USED MCA IN CAL	CULATI	ON)	50	.9A	55	.8A	1
	В	14.7	KVA	35%	MI	sc	26.1 KVA		26.1 k	(VA		LOAD	X 100% NEC 210.19 NON-	CONT.			FILEN	AME:		
	С	13.3	KVA	31%	N	Р	0.0 KVA		0.0 K	VA		0 NON	ICOINCIDENTAL LOADS NE	C 220.6	0	Frankli	in LOAD	XLSM		

S	M	OUNT:	FLUSI	Н	120/	208	3-PHASE, 4W	P/	ANEL		G	Α	CAPACITY:	125A		INT	CAP:	10KA		S
NOTES	LOCA	TION:	DRYIN	IG ARE	A 128			LU	JGS:		MLC)	DEMAND LOAD:	33A		AV. F	AULT:	7.0KA		NOTES
Z	CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	ф	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	Z
GF	1		1.26				REC DRYER	20	1	Α	20	1	REC SALON		0.72				2	
GF	3		1.26				REC DRYER	20	1	В	20	1	REC SALON		0.72				4	
GF	5		1.26				REC DRYER	20	1	С	20	1	REC SALON		0.72				6	
GF	7		1.26				REC DRYER	20	1	Α	20	1	REC SALON		0.90				8	
GF	9		1.26				REC DRYER	20	1	В	20	1	BUZZER		0.36				10	
	11						SPARE	20	1	С	20	1	I.G. REC SALON		0.72				12	
	13						SPARE	20	1	Α	20	1	DRYING		0.54				14	
	15						SPARE	20	1	В	20	1	SPARE						16	
	17						SPARE	20	1	С	20	1	SPARE						18	
	19						SPARE	20	1	Α	20	1	SPARE						20	
	21						SPARE	20	1	В	20	1	SPARE						22	
	23						SPARE	20	1	С	20	1	SPARE						24	
	25						SPARE	20	1	Α	20	1	SPARE						26	
GF	27		1.26				MASTER BLASTER DRYER	20	1	В	20	1	SPARE						28	
GF	29		1.26				MASTER BLASTER DRYER	20	1	С	20	1	SPARE						30	
	ы	DUAGE DALANCE				TYPE	CONNECTED		DEM A	ND)	DEM/	AND FORMULA				TOTAL	LOAD)	
	FF	PHASE BALANCE			LIGH	TING	0.0 KVA		0.0 K	VA		LOAD	X 125% NEC 210.19 CONT	INUOU	S	CONN	ECTED	DEM	AND	
	ф	LOAD % RECEPTAC		TACLE	13.5 KVA		11.8 k	(VA	¥	10KV	A + 50% REMAINDER NEC 2	220.44		13.5	KVA	11.8	KVA			
	Α	4.7	KVA	35%	HV	AC	0.0 KVA		0.0 K	VA		LOAD	X 80% (USED MCA IN CAL	CULAT	ION)	37.	.5A	32	6A	
	В	4.9	KVA	36%	MIS	sc	0.0 KVA		0.0 K	VA		LOAD	X 100% NEC 210.19 NON-	CONT.			FILEN	AME:		
	С	4.0	KVA	29%	N	Р	0.0 KVA		0.0 K	VA		0 NON	ICOINCIDENTAL LOADS NE	EC 220.	60	Frankli	n LOAD	XLSM		

A. ALUMINUM BUSSING, COPPER GROUND
B. PROVIDE WITH ISOLATED GROUND BUS
C. NOTES: GF-GFCI CIRCUIT BREAKER; HL-HANDLE LOCK-ON DEVICE; CC-CIRCUIT VIA CONTACTOR

A. ALUMINUM BUSSING, COPPER GROUND

B. NOTES: GF-GFCI CIRCUIT BREAKER; HL-HANDLE LOCK-ON DEVICE; CC-CIRCUIT VIA CONTACTOR

GENERAL NOTE:
ELECTRICAL CONTRACTOR SHALL EITHER PROVIDE MULTI-POLE CIRCUIT
BREAKERS OR HANDLE TIES FOR ALL CIRCUIT BREAKERS IN PANELBOARDS
WITH MULTI-WIRE CIRCUITS, PER SECTION 210.4(B), IN ACCORDANCE WITH
2008 N.E.C. AND LATER. ELECTRICAL CONTRACTOR SHALL EXECUTE MEANS
AND METHODS IN ACCORDANCE WITH APPLICABLE SECTION(S) OF N.E.C. AND
THE LOCAL AUTHORITY HAVING JURISDICTION. ALL 277-VOLT LED LIGHTS

SHALL HAVE DEDICATED NEUTRALS, SHARING NEUTRALS IS NOT ALLOWED.

ES	M	OUNT:	PWRF	LUS	120	/208	3-PHASE, 4W	P	ANEL		L	41	CAPACITY:	150A		INT	CAP:	10KA	
NOTE	LOCA	TION:	RECE	VING	AREA 1	12		LU	JGS:		MC	В	DEMAND LOAD:	119A		AV. F	AULT:	7.0KA	
Z [CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	ф	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CI
HL	1				0.2		SPRINKLER BELL RISER	20	1	Α	20	1	SPARE						
HL	3		0.90				REC SPRINKLER ALARM	20	1	В	20	1	REC AT COLUMN		1.26				
HL	5		0.40				REC TMB	20	1	С	20	1	REC ROOF RTU		0.90				19
HL	7		0.40				REC TMB	20	1	Α	20	1	DED. REC ASSOC. RES.		0.60				ł
	9						SPARE	20	1	В	20	1	SPARE						1
	11		0.63				REC RESTROOMS	20	1	С	20	1	SPARE						1
	13						SPARE	20	1	Α	20	1	SPARE						'
HL	15				0.18		CP-1 EMS ELECTRONICS	20	1	В	20	1	IG REC - E-LEARNING		0.36				
HL	17				0.98		CP-1 EMS OUTPUTS	20	1	C	20	1	CONTACTOR COILS				0.18		
	19				1.20		SCUBBER	20	1	Α	30	2	BATTERY CHARGER				2.40		
	21		0.54				REC SERVICE EXTERIOR	20	1	В			DATTERT CHARGER				2.40		
	23		0.60				DED. REC ASSOC. RES.	20	1	C	20	1	ASSOC. RESOURCES REF		0.57				
	25						SPARE	20	1	Α	20	1	EXHAUST FAN 2			0.87			
	27	27 0.72					REC ASSOC. RESOURCE	20	1	В	20	1	SPARE						
CC	29				0.6		ILLUM. LETTERS	20	1	C	20	1	SPARE						
CC	31				8.0		EVENTS LT BOX	20	1	Α	20	1	SPARE						
	33						SPARE	20	1	В	20	1	REC VENDING		1.0				
	35						SPARE	20	1	С	20	1	REC VENDING		1.0				
	37	0.0	3.4	0.0	2.8	0.0				Α	20	1	FRONT SIGNAGE	1.3					
	39		0.0	2.8	0.0	PANEL LB	60	3	В	20	1	SPARE							
	41	0.0	2.9	0.9	0.0	0.0				C	20	1	REC EDF		0.4				
										Α			FEED THRU LUGS FOR	1.4	0.0	0.0	1.3	0.0	
										В			PANEL LA2	0.6	0.0	0.9	2.1	0.0	L
										С			, , , , , , , , , , , , , , , , , , ,	0.6	0.0	0.0	3.4	0.0	
		PHASE BALANCE LOAD TYPE CONNECTE							DEM/	ND		DEM A	AND FORMULA			,	TOTAL	LOAD)

LOAD X 125% NEC 210.19 CONTINUOUS

LOAD X 80% (USED MCA IN CALCULATION)

10KVA + 50% REMAINDER NEC 220.44

21.3 KVA LOAD X 100% NEC 210.19 NON-CONT.

0.0 KVA 0 NONCOINCIDENTAL LOADS NEC 220.60

47.2 KVA 43.0KVA

130.9A 119.3A

FILENAME:

Franklin LOAD.XLSM

NOTES:
A. ALUMINUM BUSSING, COPPER GROUND

A. ALUMINUM BUSSING, COPPER GROUND B. PROVIDE WITH ISOLATED GROUND BUS

PHASE BALANCE

A 16.7 KVA 35%

B 16.5 KVA 35%

C 14.0 KVA 30%

B. PROVIDE WITH ISOLATED GROUND BUS C. NOTES: GF-GFCI CIRCUIT BREAKER; HL-HANDLE LOCK-ON DEVICE; CC-CIRCUIT VIA CONTACTOR

19.3 KVA

21.3 KVA

ES	M	DUNT:	PWRF	PLUS	120	/208	3-PHASE, 4W	P	ANEL		L	42	CAPACITY:	200A		INT	CAP:	10KA		
OT	LOCA	TION:	RECE	VING	AREA 1	112		LU	JGS:		MC	В	DEMAND LOAD:	30A		AV. F	AULT:	7.0KA		
Z	CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	ф	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	СКТ	1
CC	1	0.3					POWER DROP-LTG	20	1	Α	20	1	POWER DROP-LTG	0.3					2	Ī
CC	3	0.3					POWER DROP-LTG	20	1	В	20	1	POWER DROP-LTG	0.3					4	T
CC	5	0.3					POWER DROP-LTG	20	1	С	20	1	POWER DROP-LTG	0.3					6	
	7						SPARE	20	1	Α	20	1	POWER DROP-LTG	0.3					8	T
	9			0.87			EXHAUST FAN 4	20	1	В	20	1	SPARE						10	Т
	11						SPARE	20	1	С	20	1	SPARE						12	Τ
	13						SPARE	20	1	Α	20	1	LTG NATURALS AREA	0.50					14	
	15						SPARE	20	1	В	20	1	SPARE						16	Τ
	17						SPARE	20	1	С	20	1	SPARE						18	
	19						SPARE	20	1	Α	20	1	SPARE						20	
	21						SPARE	20	1	В	20	1	SPARE						22	
	23						SPARE	20	1	C	20	2	FREEZER				1.30		24	
	25						SPARE	20	1	Α	20	_	INCLECT				1.30		26	
	27				0.80		COOLER	20	1	В	20	2	FREEZER				1.30		28	L
	29				0.80		COOLER	20	1	C			INCLEC				1.30		30	
	D.	IASE E) A I A NI	CE	LOAD	TYPE	CONNECTED		DEM/	AND)	DEM A	AND FORMULA				TOTAL	LOAD)	ı
	-	IASE	MLAIN	CE	LIGH	TING	2.6 KVA		3.3 K	VA		LOAD	X 125% NEC 210.19 CONTI	NUOUS		CONN	ECTED	DEM	AND	1
	ф	LO	AD	%	RECEP	TACLE	0.0 KVA		0.0 K	VΑ		10KV	A + 50% REMAINDER NEC 22	20.44		10.3	KVA	10.7	KVA	1
	Α	2.7	KVA	26%	HV	AC	0.9 KVA		0.7 K	VA		LOAD	X 80% (USED MCA IN CALC	CULATIO	ON)	28.	5A	29	.8A	1
	В	3.6	KVA	35%	MI	sc	6.8 KVA		6.8 K	VA		LOAD	X 100% NEC 210.19 NON-0	CONT.			FILEN	AME:		1
	С	4.0	KVA	39%	N	Р	0.0 KVA	1	0.0 K	VA		0 NON	NCOINCIDENTAL LOADS NE	C 220.6	0	Frankli	n LOAD	.XLSM		١

ES	M	:TNUC	FLUSI	Н	120/	208	3-PHASE, 4W	P	ANEL		L	В	CAPACITY:	60A		INT	CAP:	10KA		S
NOT	LOCA	TION:	OFFIC	E 103			!	LU	JGS:		ML	0	DEMAND LOAD:	43A		AV. F	AULT:	7.0KA		NOTES
Z	CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	ф	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	Z
HL	1		0.36				REC IG CHECKSTAND 1	20	1	Α	20	1	SPARE						2	
HL	3		0.36				REC IG CHECKSTAND 2	20	1	В	20	1	SPARE						4	
HL	5		0.36				REC IG CHECKSTAND 3	20	1	С	20	1	REC CASH WRAP		1.08				6	
	7				1.2		AUTOMATIC DOORS	20	1	Α	20	1	HOLDING ROOM-1		0.72				8	
HL	9		0.40				REC MUSAK EQUIP	20	1	В	20	1	REC COMPT/COPY, OFF		0.72				10	
	11						SPARE	20	1	С	20	1	REC EXTERIOR BLDG		0.36				12	
	13		0.72				REC SALES AREA	20	1	Α	20	1	REC TAG MACHINE		0.36				14	
	15		0.72				REC ROOF RTU	20	1	В	20	1	REC IG EQUIP.		0.36				16	
	17						SPARE	20	1	С	20	1	HOLDING ROOM-2		0.72				18	
	19		0.72				REC IG OFFICE COMP	20	1	Α	20	1	REC BIRD DETERRENT		0.50				20	
	21		0.18				REC VAULT	20	1	В	20	1	RP-1 PUMP				1.2		22	
	23		0.36				REC IG VAULT	20	1	C	20	1	EXHAUST FAN 1			0.87			24	
	25				1.6		DEHUMIDIFIER DHU-1	20	1	Α	20	1	SPARE						26	
	27				1.6		DEHUMIDIFIER DHU-2	20	1	В	20	1	SPARE						28	
	29						SPARE	20	1	C	20	1	SPARE						30	
	DL	IVEE	BALAN	CE	LOAD	TYPE	CONNECTED		DEM A	ND	1	DEM/	AND FORMULA			19	TOTAL	LOAD		
	г	IASE E	ALAN	CE	LIGH	TING	0.0 KVA		0.0 K	VA		LOAD	X 125% NEC 210.19 CON	TINUOU	S	CONN	ECTED	DEM	AND	
	ф	LO	AD	%	RECEP	TACLE	9.0 KVA		9.0 K	VA		10KV	A + 50% REMAINDER NEC	220.44		15.5	KVA	15.3	KVA	
	Α	6.2	KVA	40%	HV	AC	0.9 KVA		0.7 K	VA		LOAD	X 80% (USED MCA IN CAI	LCULAT	TION)	43	.0A	42.	5A	
	В	5.6	KVA	36%	MIS	sc	5.6 KVA		5.6 K	VA		LOAD	X 100% NEC 210.19 NON	-CONT.			FILEN	AME:		
	С	3.8	KVA	24%	N	Р	0.0 KVA		0.0 K	VA		0 NOI	NCOINCIDENTAL LOADS N	EC 220.	60	Frankli	n LOAD	XLSM		

A. ALUMINUM BUSSING RATED AT 60A, COPPER GROUND

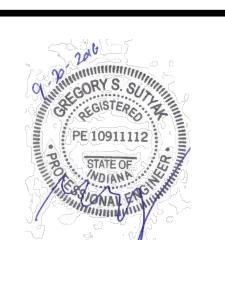
B. PROVIDE WITH ISOLATED GROUND BUS C. NOTES: GF-GFCI CIRCUIT BREAKER; HL-HANDLE LOCK-ON DEVICE; CC-CIRCUIT VIA CONTACTOR

C. NOTES: GF-GFCI CIRCUIT BREAKER; HL-HANDLE LOCK-ON DEVICE; CC-CIRCUIT VIA CONTACTOR



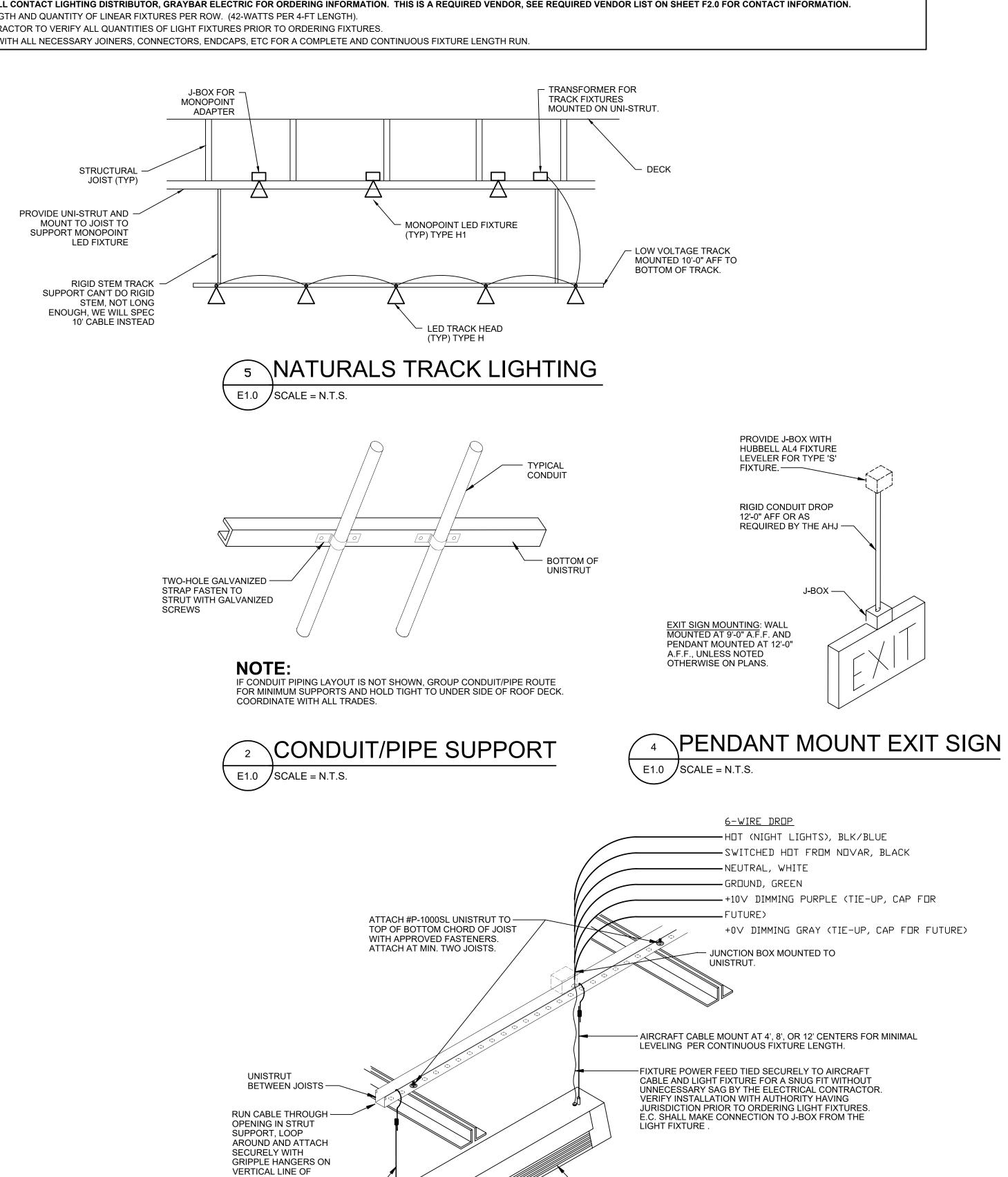
ORE #3060 ORTON STREE NKLIN, IN 0 0

No:	ISSNE:	DATE:
	REVIEW SET	08.22.2016
	PERMIT SET	09.16.2016
$ \leftarrow $	BULLETIN #1	09.20.2016
$\sqrt{2}$	BULLETIN #2	10.11.2016



752165-01





— SALES AREA LINEAR LED FIXTURE E25

CONTRACTOR TO PROVIDE ALL NECESSARY HARDWARE FOR

2. LIGHT FIXTURES THAT RUN PARALLEL WITH THE JOISTS SHALL

END OF LIGHT FIXTURE FOR THE AIRCRAFT CABLE HANGERS.

3. VERIFY LIGHT FIXTURE AND INSTALLATION WITH PETSMART PROJECT

REQUIRE TWO (2) SEPARATE PIECES OF UNISTRUT, ONE (1) AT EACH

INSTALLATION.

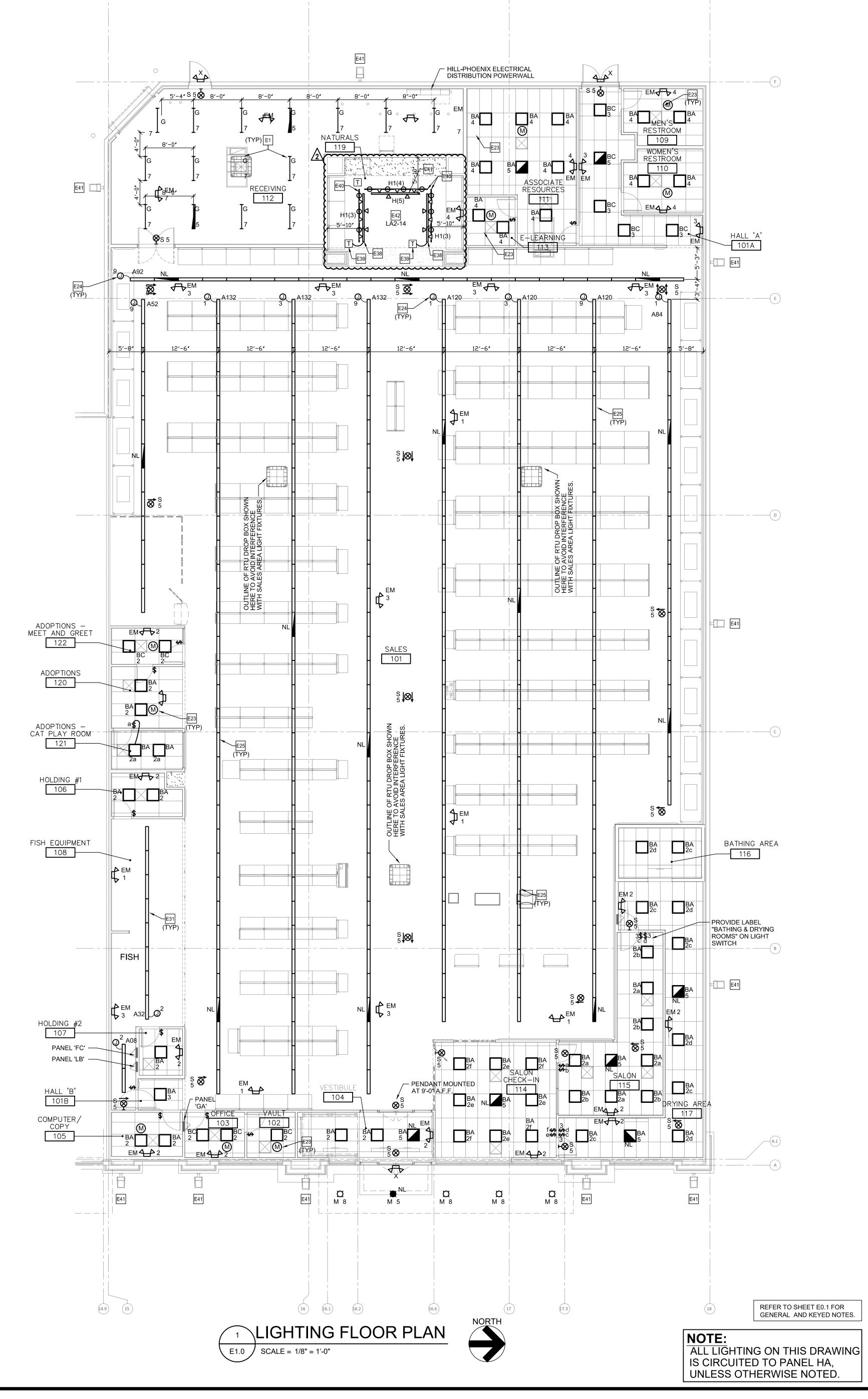
3 LIGHT FIXTURE MOUNTING DETAIL

CABLE. MODIFY CABLE TO CORRECT LENGTH

AIRCRAFT CABLE —

E1.0 SCALE = N.T.S.

IN FIELD.

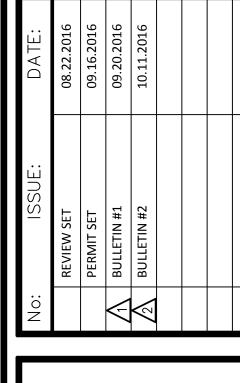


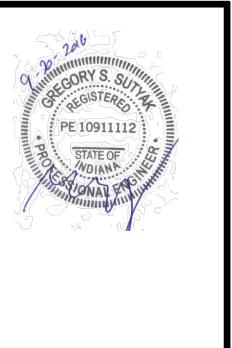
engineering

2012 West 25th St., Suite 200
Cleveland, Ohio 44113-4131
Office: (216) 227-8505

: #3060 TON STREET (LIN, IN

LIGHTING PLAN STORE #3060 1010 N. MORTON ST



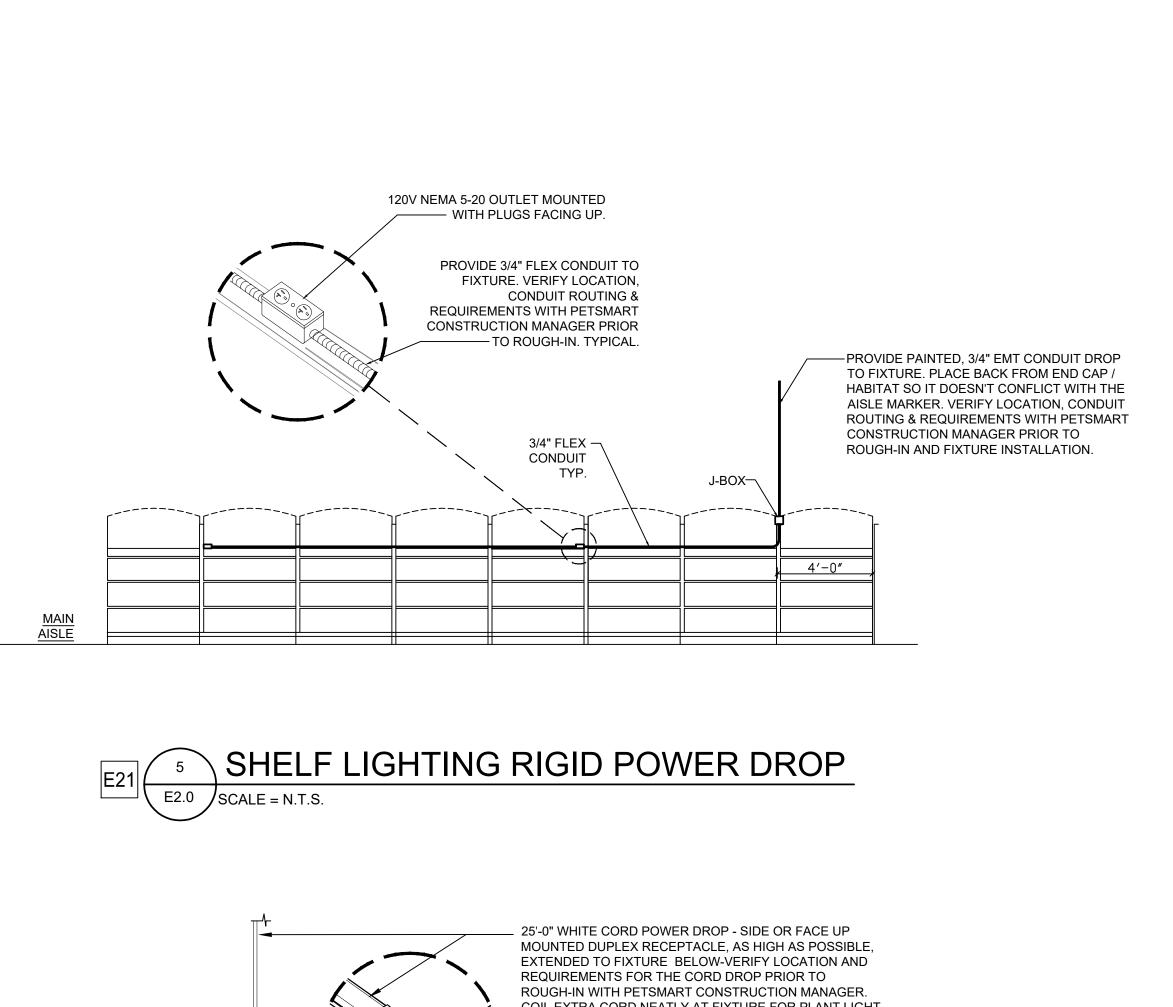


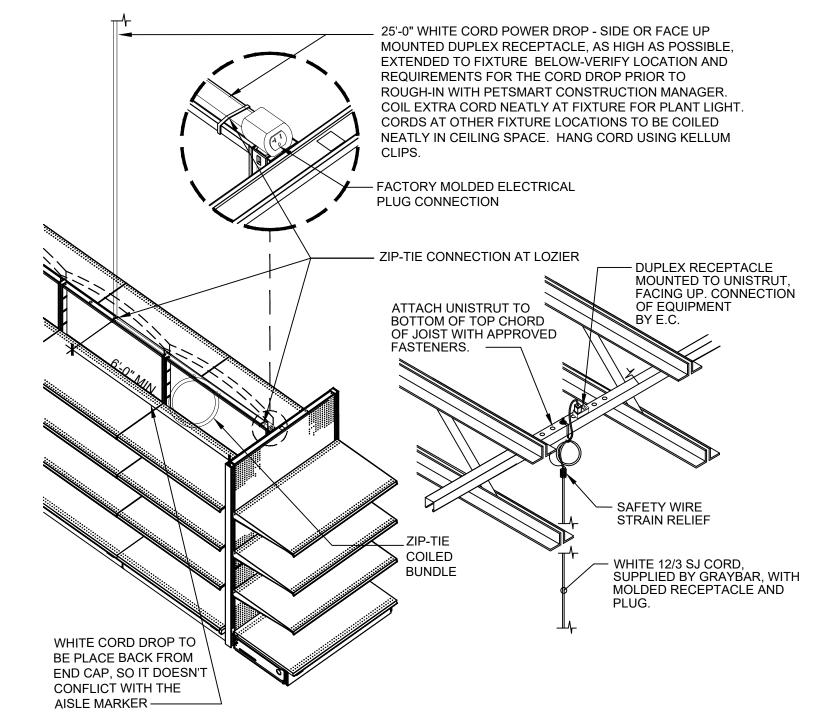
CESO Job No:
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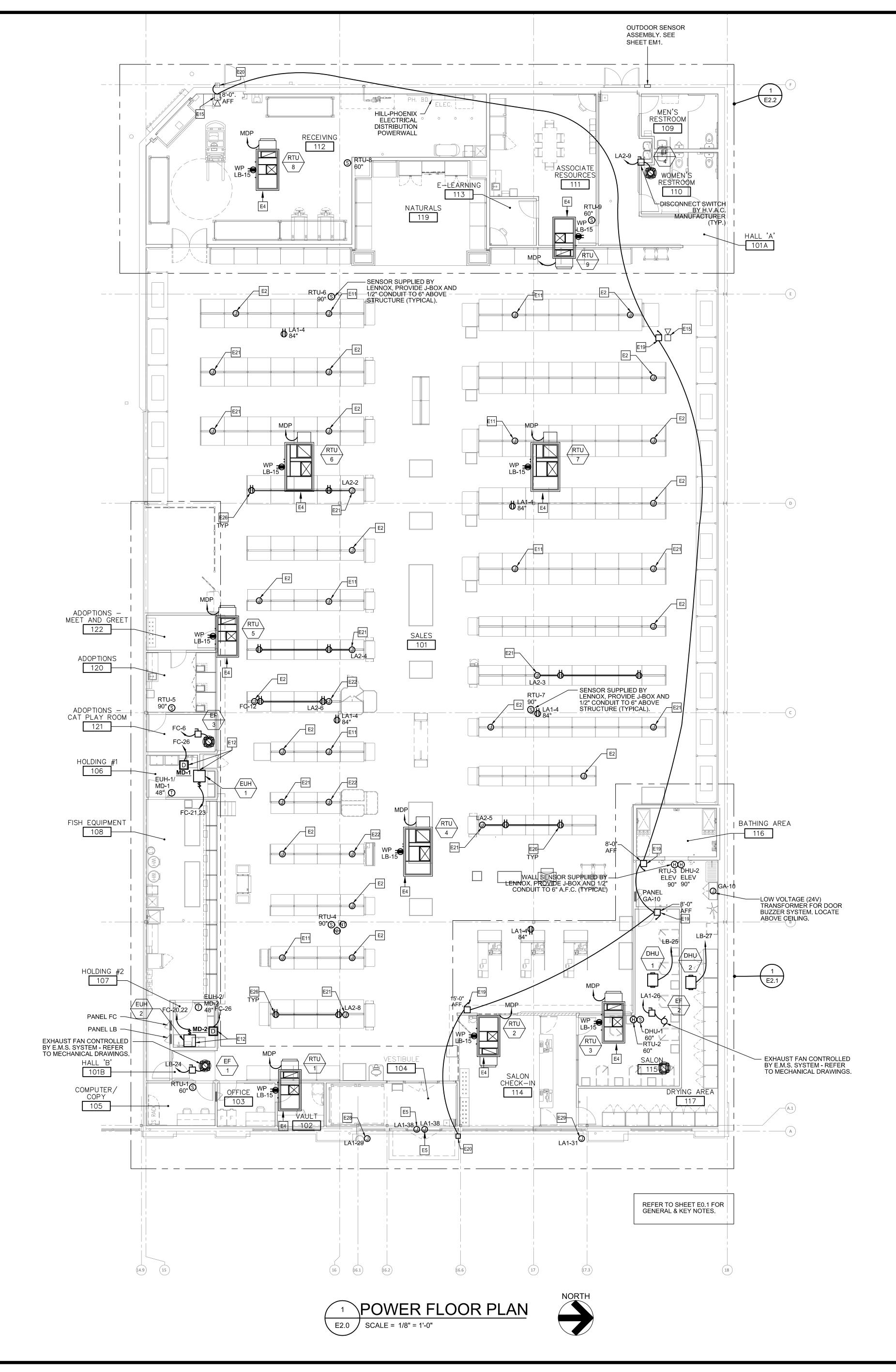
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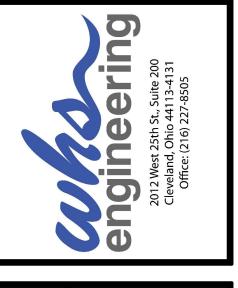




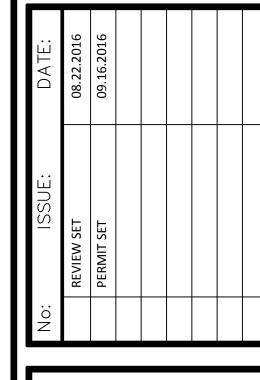
FLEXIBLE POWER DROP

SCALE = N.T.S.





STORE #3060 1010 N. MORTON ST

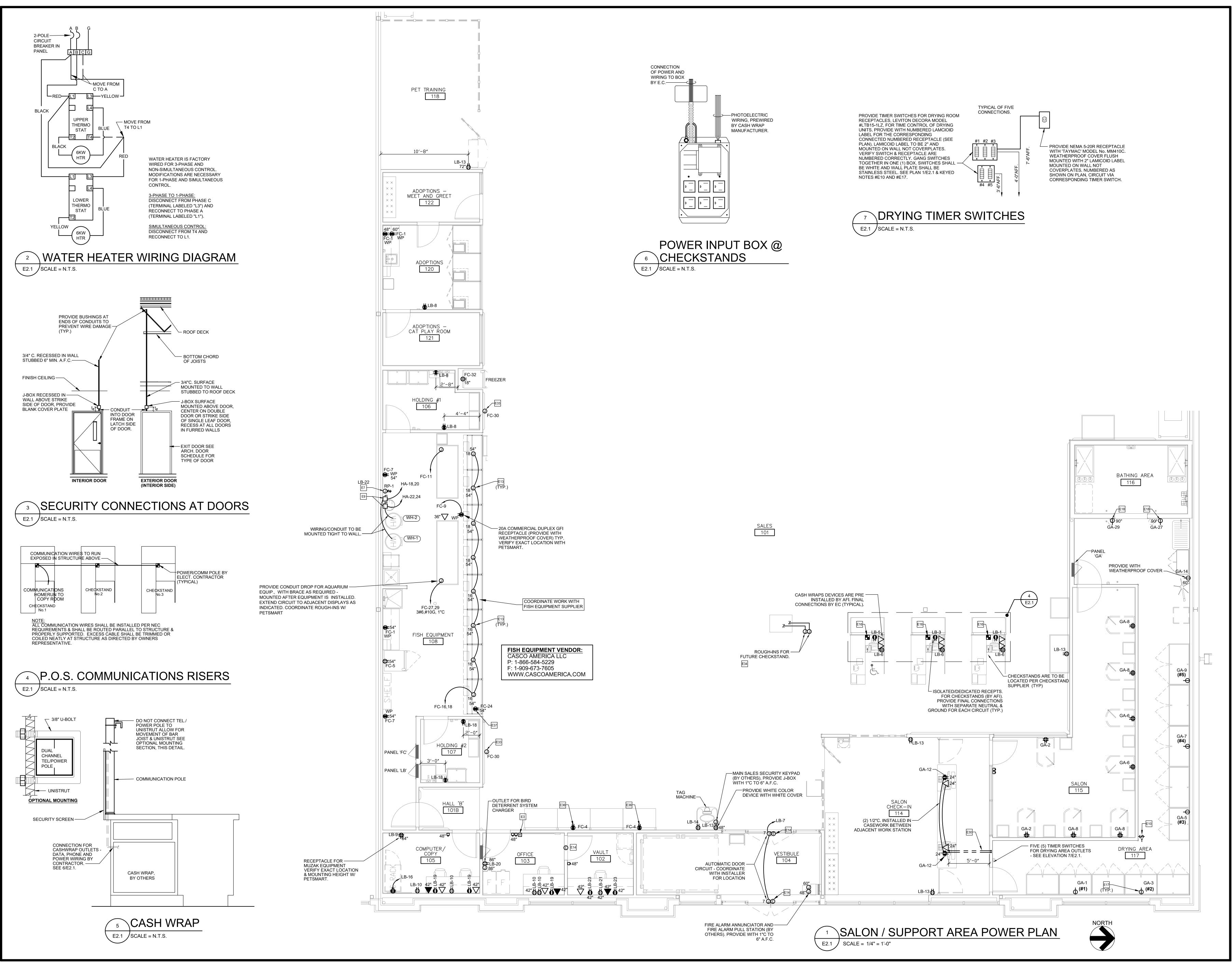




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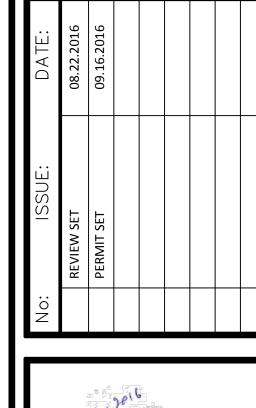
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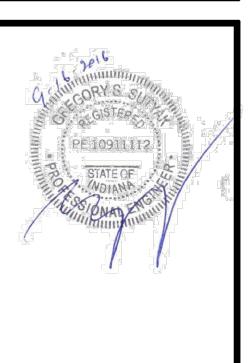
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Checked: WHS



engineering
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Cleveland, Ohio 44113-4131
Office: (216) 227-8505

NLARGED POWER PLAN STORE #3060 010 N. MORTON STREET



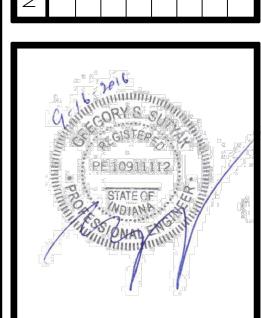


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752165-01

REFER TO SHEET E0.1 FOR GENERAL & KEY NOTES.

"MANUFACTURER'S PROPRIETARY DETAILS AND SCHEMATICS ARE INCLUDED ON THESE DOCUMENTS FOR INFORMATION ONLY. CONTRACTOR SHALL BE AWARE THAT SUCH INFORMATION MAY BE GENERIC AND MAY NOT REPRESENT ACTUAL OR COMPLETE PROJECT REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ADDITIONAL INFORMATION OR SHOP DRAWINGS AS MAY BE NECESSARY FOR PROJECT SPECIFIC REQUIREMENTS."

T1-XFMR PROVIDE COMBINATION PVC TUBE FOR CONSTRUCTION DATA/PHONE DOCUMENTS BY OUTLET MIN. 48" UP HILL PHOENIX — OPUS LTG CONTACTORS RELAYS/BASES EMS CABINET PLM, C1 — LA2 MCB #GENERATOR BREAKER (MOBILE OPUS NOVAR - CONTROLLER GENERATOR CONNECTION) ATTACHED TO INSIDE OF DOOR 12 X 12 FOLD-UP — SHELF BEHIND DOOR

2#10,#10G, 3/4"C BATTERY CHARGER — (OWNER SUPPLIED) — 30A/2P L6-30-250V OUTLET, FOR BATTERY CHARGER. CONTRACTOR SHALL COORDINATE WITH LOCAL MUNICIPALITY TO COMPLY WITH LOCAL CODES. COORDINATE EXACT LOCATION WITH PETSMART. EC RESPONSIBLE TO PROVIDE MEANS — TO CONNECT CHARGER TO WALL.

BATTERY CHARGER ELEVATION

E2.2 SCALE = N.T.S.

² ELEVATION TELEPHONE BACKBOARD E2.2 SCALE = N.T.S.

TELEPHONE / SPRINKLER

ALARM / BURGLAR ALARM

BACKBOARD

VENDOR EQUIP.

TELCO DEMARC

PROVIDE 3/4" PLYWOOD

BACKBOARD

PROVIDE (1) #6 GROUND FROM INCOMING TELEPHONE DEMARC

POINT OVERHEAD TO MAIN GROUND BUS OF

THE HILL PHOENIX

"POWERPLUS"

PRODUCT.

ON THE SPRINKLER
ALARM BACKBOARD

SÀCP

Future Battery

BURGLAR PANEL

BURGLAR

PANEL

(TENANT)

52-1/2"

1/2" EMT ─

(1) 3" UNDERGROUND CONDUITS FOR—— NOT COMING TELEPHONE SERVICES.

COORDINATE EXACT LOCATION OF STUB-UPS WITH PETSMART.

3/4" EMT—

3/4" EMT —

\ELEVATION POWER WALL E2.2 SCALE = N.T.S. (RIGHT HAND ONLY!)

1'-8"

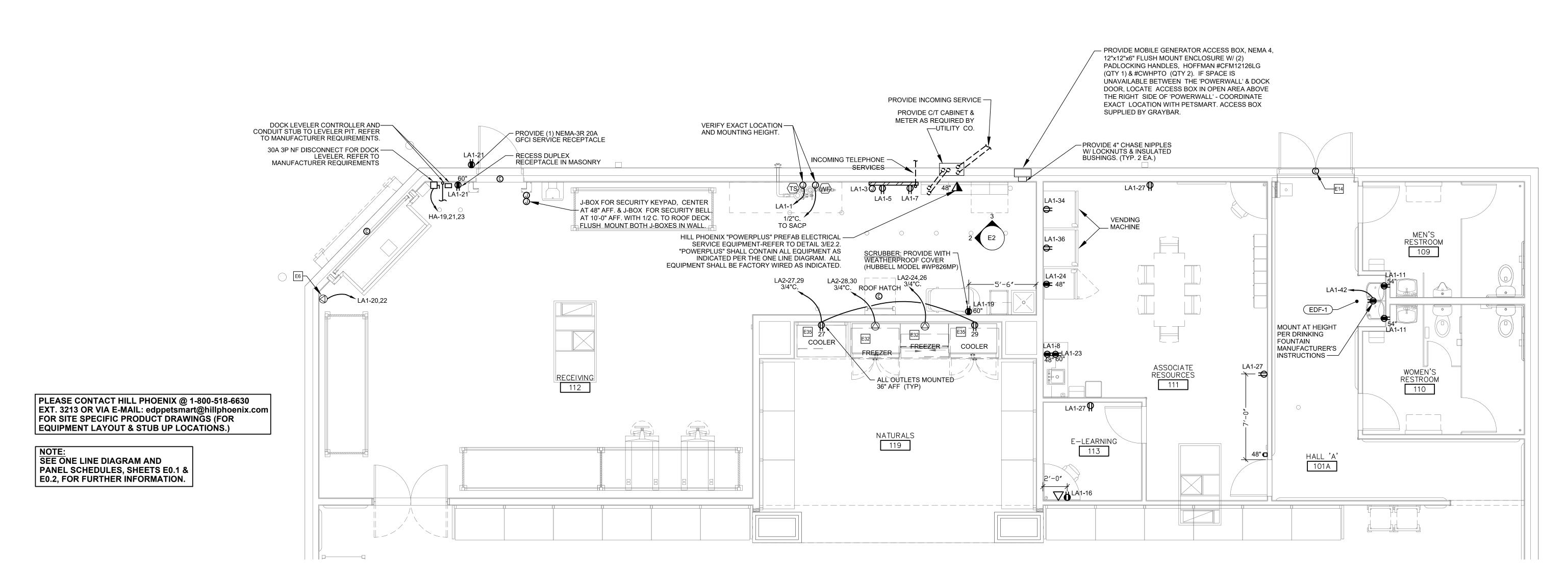
EMS BACKBOARD - MOUNTED
IN REAR OF EMS CABINET

3'-4"

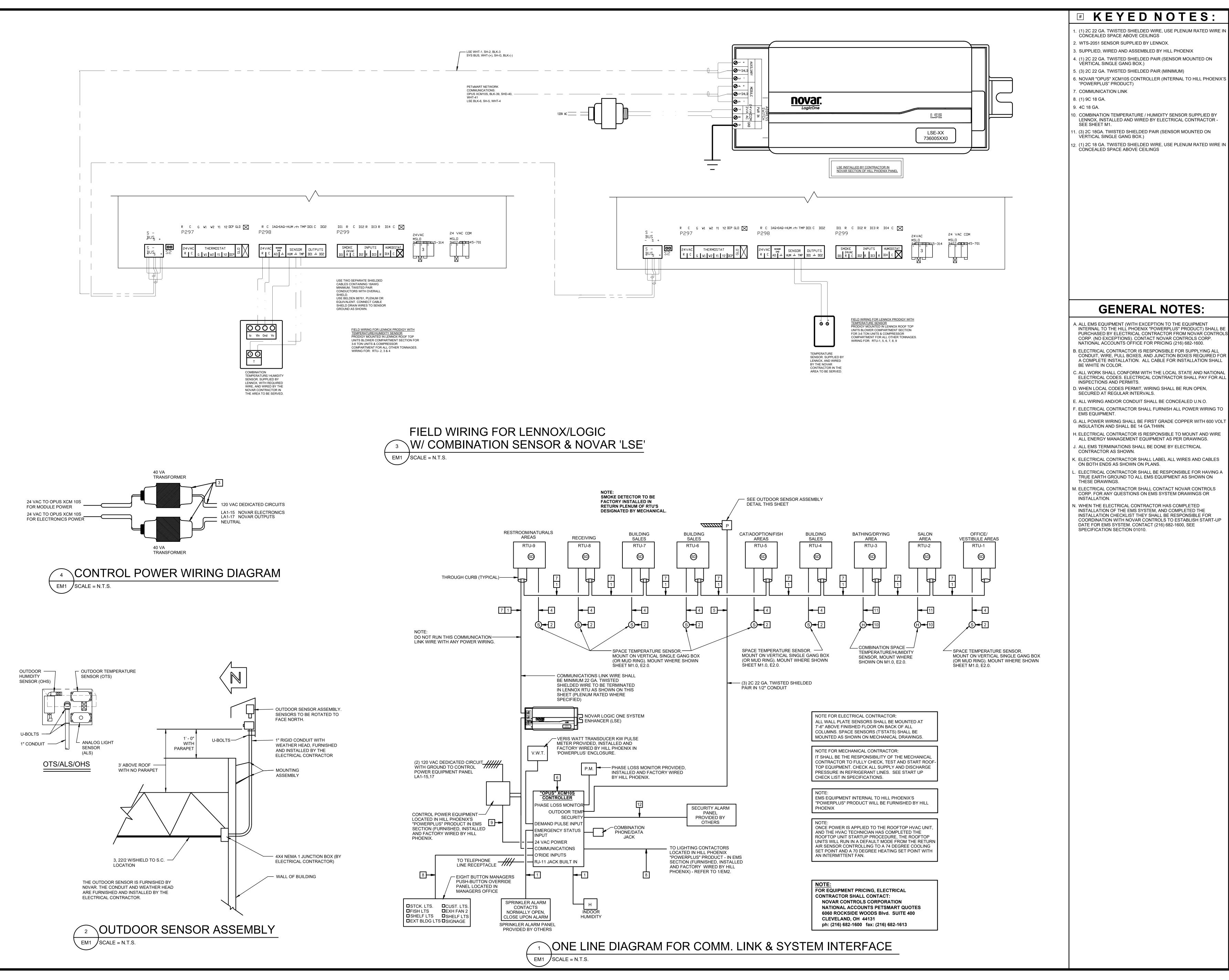
7'-3"

FRONT VIEW

2'-3"







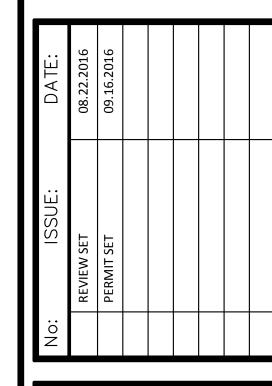
KEYED NOTES:

- (1) 2C 22 GA. TWISTED SHIELDED WIRE, USE PLENUM RATED WIRE IN CÓNCEALED SPACE ABOVE CEILINGS
- 2. WTS-2051 SENSOR SUPPLIED BY LENNOX.
 - 3. SUPPLIED, WIRED AND ASSEMBLED BY HILL PHOENIX
 - 4. (1) 2C 22 GA. TWISTED SHIELDED PAIR (SENSOR MOUNTED ON VÉRTICAL SINGLE GANG BOX.)
- 5. (3) 2C 22 GA. TWISTED SHIELDED PAIR (MINIMUM)
- 6. NOVAR "OPUS" XCM10S CONTROLLER (INTERNAL TO HILL PHOENIX'S "POWERPLUS" PRODUCT)
- 8. (1) 9C 18 GA.
- 9. 4C 18 GA. 10. COMBINATION TEMPERATURE / HUMIDITY SENSOR SUPPLIED BY
- 1. (3) 2C 18GA. TWISTED SHIELDED PAIR (SENSOR MOUNTED ON VERTICAL SINGLE GANG BOX.)
- _{12.} (1) 2C 18 GA. TWISTED SHIELDED WIRE, USE PLENUM RATED WIRE IN CONCEALED SPACE ABOVE CEILINGS

GENERAL NOTES:

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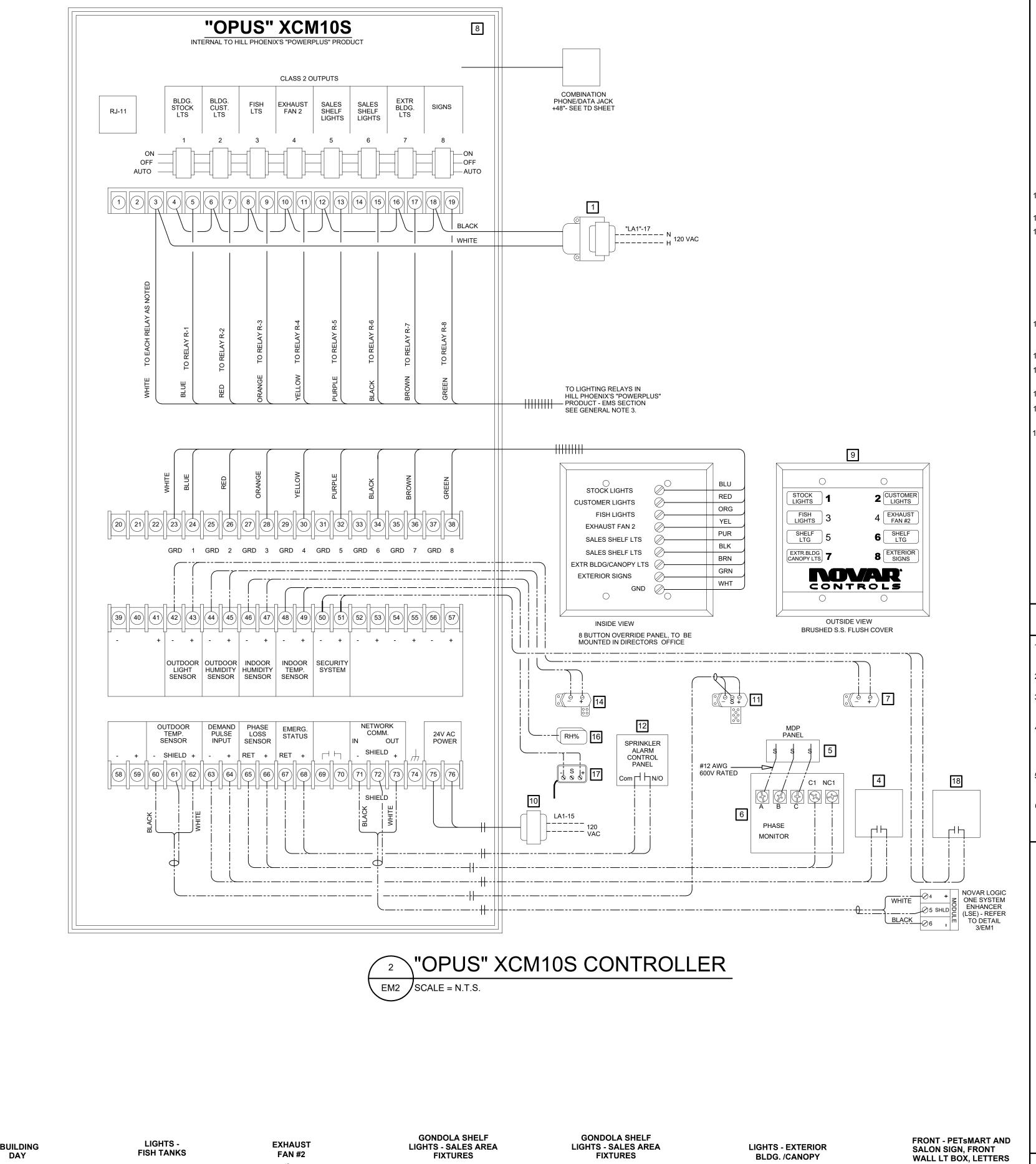
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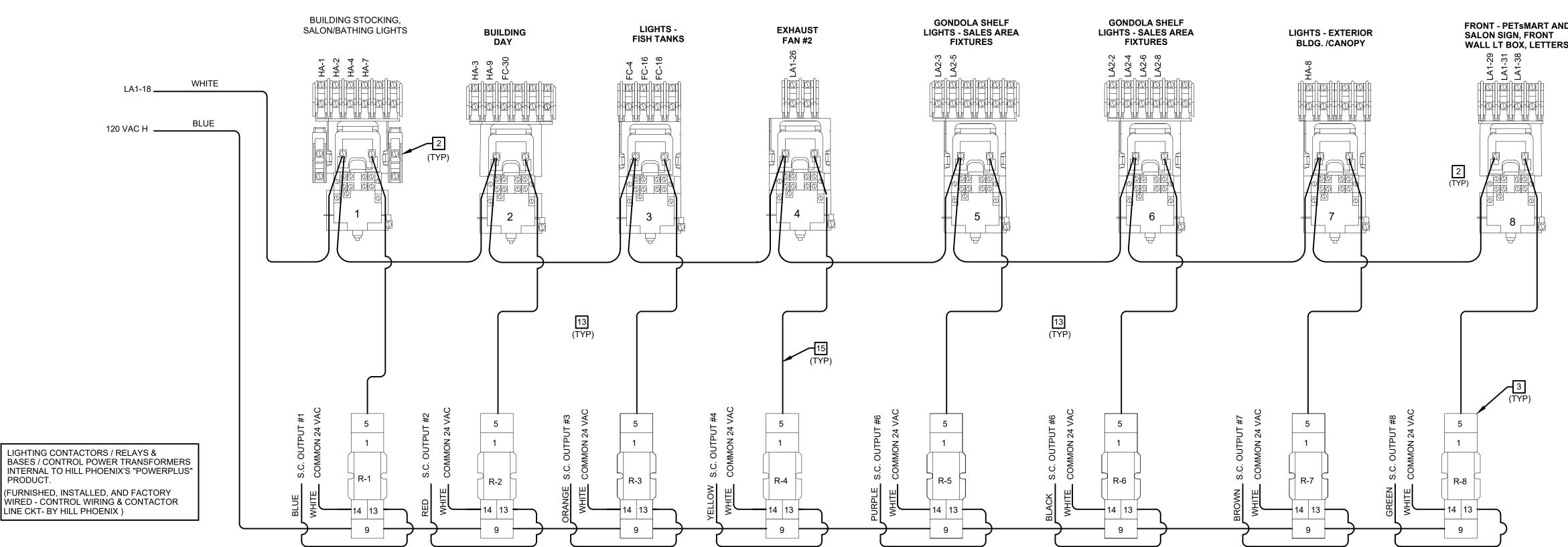




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Drawn: **WHS** Checked: **WHS**





KEYED NOTES:

40 VA TRANSFORMER TO SUPPLY POWER TO CONTROL RELAYS LOCATED IN HILL PHOENIX'S "POWERPLUS" - EMS SECTION. 2. CONTACTOR BY HILL PHOENIX, NUMBER OF POLES NORMALLY CLOSED AS DETAILED PER LIGHTING CONTACTOR ONE-LINE (TYP.)

AND INSTALLED BY HILL PHOENIX.

3. IDEC SPDT 24 VAC RELAY AND BASE MOUNTING BY HILL PHOENIX. 4. VERIS WATT TRANSDUCER PULSE METER MODEL H8153 PROVIDED erin

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- 5. HILL PHOENIX TO PROVIDE CIRCUIT BREAKER IN PANEL 'MDP' FOR PHASE LOSS MONITOR.
- 6. PHASE MONITOR PROVIDED, INSTALLED AND FACTORY WIRED IN
- HILL PHOENIX'S "POWERPLUS" PRODUCT IN EMS SECTION.
- 7. OLS, OUTDOOR LIGHT SENSOR SEE SHEET EM2 8. OPUS XCM10S BASE AND CONTROL POWER EQUIPMENT PROVIDED, INSTALLED AND FACTORY WIRED IN HILL PHOENIX'S "POWERPLUS"
- PRODUCT SEE EM2 FOR LAYOUT. 9. (8) BUTTON OVERRIDE PANEL LOCATED IN MANAGERS OFFICE, SEE
- 10. FURNISHED BY ROOFTOP UNIT MANUFACTURER, INSTALLED AND
- WIRED BY ELECTRICAL CONTRACTOR. 11. OTS, OUTDOOR TEMPERATURE SENSOR - SEE SHEET EM2
- 2. NOVAR TO ACCEPT SINGLE "GENERAL" EMERGENCY INPUT FROM S.A.C.P., NO RTU SHUT DOWN TO BE SOFTWARE DRIVEN ON SMOKE DETECTION - UNITS MUST HAVE HARD WIRED SMOKE DETECTORS. CHECKPOINT IS TO PROVIDE A SPDT RELAY MODULE MOUNTED NEXT TO THE S.A.C.P. ON A DOUBLE-GANG BOX FOR CONNECTION TO THE NOVAR SYSTEM BY THE E.C. THIS RELAY MODULE WILL BE LABELED 'NOVAR' TO PREVENT CONFUSION WITH OTHER MODULES THAT MAY BE MOUNTED NEARBY. THE E.C. WILL BE RESPONSIBLE FOR INSTALLING CONDUIT & TWO CONDUCTORS BETWEEN THE MODULE (Com & N/O) AND THE NOVAR EMERGENCY STATUS INPUT.
- 3. ALL CONTACTORS, RELAYS & LOW VOLTAGE WIRING PROVIDED, INSTALLED AND FACTORY WIRED BY HILL PHOENIX'S IN THE "POWERPLUS" PRODUCT.
- 14. OHS, OUTDOOR HUMIDITY SENSOR SEE SHEET EM2.
- 15. ALL INTERNAL CONTROL WIRING SHALL BE RUN IN NEAT-AND-WORKMAN-LIKE MANNER, LABEL ALL WIRES WITH NUMBERS.
- 16. ZONE HUMIDITY SENSOR SEE SHEET EM2. 7. INDOOR TEMPERATURE SENSOR - COORDINATE WITH NOVAR
- CONTRACTOR.
- 18. SECURITY PANEL: ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING CONDUIT & TWO CONDUCTORS BETWEEN THE MODULE AND THE NOVAR STATUS INPUT.

GENERAL NOTES:

- ENERGY MANAGEMENT COMPONENTS ARE FURNISHED BY NOVAR CONTROLS (WITH THE EXCEPTION OF EQUIPMENT INTERNAL TO HILL PHOENIX'S "POWERPLUS" PRODUCT) ALL WIRING AND TERMINATIONS SHOWN ARE BY THE ELECTRICAL
- CONTRACTOR. ALL LOW VOLTAGE WIRING EXTERNAL TO THE ENCLOSURE MAY BE OPEN CABLE (PLENUM CABLE WHEN REQUIRED) IF LOCAL CODES PERMIT.
- ALL COMPONENTS SHOWN EXTERNAL TO "OPUS XCM10S" ARE MOUNTED AND WIRED BY THE ELECTRICAL CONTRACTOR (WITH THE EXCEPTION OF EQUIPMENT INTERNAL TO HILL
- PHOENIX'S "POWERPLUS" PRODUCT. ALL COMPONENTS SHOWN INTERNAL TO HILL PHOENIX'S "POWERPLUS" - EMS SECTION IS MOUNTED AND WIRED BY HILL
- LOW VOLTAGE CONDUCTORS SHALL MAINTAIN A MINIMUM 1/4" CLEARANCE FROM POWER CONDUCTORS.

R1 THRU R8 CONTROLLERS **AND CONTROL TIMES:**

- R1 BUILDING STOCKING LIGHTS, BATHING/SALON, OFFICE LIGHTS. OPERATING HOURS FROM 6:00 AM TILL 11:59 PM
- R2 BUILDING DAY (CUSTOMER LIGHTS) ON 15 MIN. BEFORE STORES OPENÍNG
- AND OFF 30 MIN. AFTER STORE CLOSES. R3 FISH LIGHTS
- 7:00 AM TILL 10:00 PM

5:00 AM TILL DAWN.

- R4 EXHAUST FAN #2 OPERATING HOURS FROM 6:00 AM TILL 10:15 PM
- R5 BUILDING DAY (SHELF LIGHTS) ON 15 MIN. BEFORE STORES ÓPENING AND OFF 30 MIN. AFTER STORE CLOSES.
- R6 BUILDING DAY (SHELF LIGHTS) ON 15 MIN. BEFORE STORES ÓPENING AND OFF 30 MIN. AFTER STORE CLOSES.
- R7 BUILDING EXTERIOR LIGHTS OPERATING HOURS FROM DUSK TILL DAWN, FROM PHOTOCELL
- R8 PETsMART SIGNAGE & SALON SIGNAGE OPERATING HOURS FROM DUSK TILL 12:01 AM AND

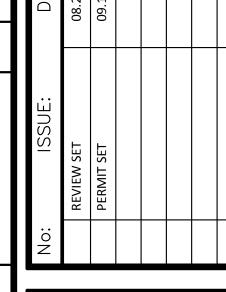
WIRE LEGEND:

LOW VOLTAGE (<25 VAC):

---- • MINIMUM 22 GA. TWISTED SHIELDED PAIR (PLENUM RATED AS REQUIRED BY CODE)

---- • 18 GA. ______ • 18 GA. 9C CONDUCTOR

_____ 。 LINE VOLTAGE (>25 VAC):





752165-01

Checked: **WHS**

CABLING:

(ALL CABLING AND CONDUIT TO BE WHITE)

14 Standard voice cables

12 Extra long voice cables 12 Pre wire voice cables

Cable for Muzak (music source-located in computer/copy +84") B Horn/speaker cable loops

8 Volume control cables All telephone cabling to be CAT 5E cable coiled at Hill Phoenix "Powerplus" product. Each wall jack shall be hooked up and tested.

TELCO TESTING AND EQUIPMENT:

Test all lines for continuity.

PAGING OUTLINE

PAGING EQUIPMENT LIST:

All equipment by "Valcom" 24 volt paging equipment consisting of:

(1) V - 2001 - A - 3 zone page controller 11) 2'x2' layin ceiling speaker

(6) V - 1080W - one way flex horn (7) V - 1092 - wall mount volume control

Location of Eight Volume Controls/ Cabling Loops

Manager Office:

Two volume controls mounted side by side (share same cable).
1) Controls all (10) horns, 1A -1L.
2) Controls speaker in manager's office 2A.

Computer/Copy Room: 3) Controls Speaker in Computer/Copy, 3A

4) Controls Speaker in vault 4A.

Two volume controls mounted side by side in Salon (share same cable). 5) Controls Speakers 5A, 5B, 5C & 5D in Salon 6) Controls Speakers 6A, 6B, 6C, 6D & 6E in Drying Room

Associate Resources: 7) Controls Speakers in Associate Resources and Toilet Rooms, 7A, 7B and 7C

Adoptions: 8) Controls Speakers in Adoptions, 8A

Paging Installation Requirements: 1. Always check with Construction Manager.

2. Use only white jacketed speaker cable/chains.

3. All cables are to be run and concealed in the angle of the bar joist and neatly wire-tied to bar joist, and not draped along braces. Sagging wires are not allowed.

4. Horns in high ceiling area must be mounted above the bottom of the joist, so they are not in the way of fork lifts. The two horns along the back wall, need to be mounted 8'-10" from back wall & above the bottom of the joist

Cash Register:

) Home run from cash register #4 to Hill Phoenix "Powerplus" product. CAT-5E Cable:

) Home run from manager office to Hill Phoenix "Powerplus" product ID as manager office.

INSTALLATION PHASES

PHASE I

Phase I will consist of confirming with construction manager location of all equipment and phones. Verify all cabling and placement of all phones which the site is ready for. Trim out all wall jacks.

NOTE:

1. PROVIDE PLENUM CABLE WHERE REQUIRED BY CODE.

2. MUZAK & DATA EQUIPMENT IS SUPPLIED AND INSTALLED BY PETsMART.

3. ALL MUZAK, TELEPHONE / DATA CABLING IS SUPPLIED & INSTALLED BY PETSMART.

4. G.C. TO COORDINATE PHONE AND MUZAK INSTALLATION AND SET-UP.

SYMBOL LEGEND

+X'-X"	DATA/PHONE LINE MOUNTED AT +X'-X" A.F.F.
릅	VOLUME CONTROL AT 48" A.F.F. (U.N.O.) AT - AT10
	2'x2' LAYIN CEILING SPEAKER
\$	LOUDSPEAKER AT - AP15T
	ALLOWABLE AREA OF ALL CONDUIT RUNS OVERHEAD



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