ORANGE COUNTY CONVENTION CENTER

ORANGE COUNTY MAYOR

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DISTRICT 2 COMMISSIONER

FRED BRUMMER



DISTRICT 3 COMMISSIONER

PETE CLARKE

DISTRICT 4 COMMISSIONER

JENNIFER THOMPSON

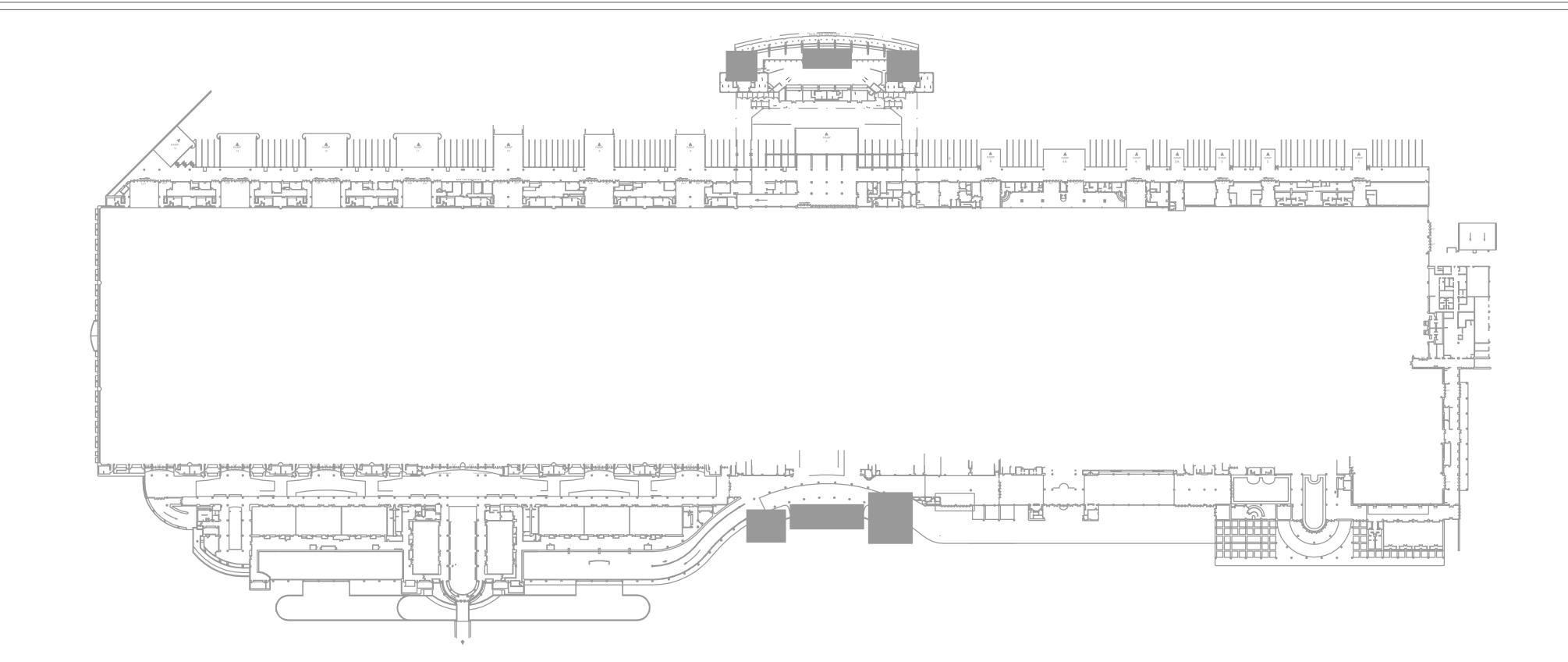
DISTRICT 5 COMMISSIONER

TED EDWARDS

DISTRICT 6 COMMISSIONER

TIFFANY MOORE RUSSELL

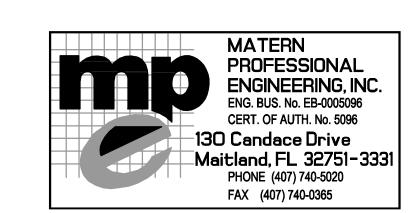
PHASE 1 HALL D CATWALK POWER



WEST BLDG

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	SHEET NO.	ELECTRICAL SHEET INDEX FOR	SCALE
	E.0.01	GENERAL NOTES AND LEGENDS	NONE
	E1.1.1	OVERALL PLAN ELECTRICAL	1" = 80'
	E1.4.25	PARTIAL POWER PLAN AREA 25	1/8" = 1-0"
	E1.4.26	PARTIAL POWER PLAN AREA 26	1/8" = 1-0"
	E1.4.27	PARTIAL POWER PLAN AREA 27	1/8" = 1-0"
	E1.4.28	PARTIAL POWER PLAN AREA 28	1/8" = 1-0"
	E2.5.01	ELECTRICAL SCHEDULES	NTS
	E2.5.02	ELECTRICAL SCHEDULES	NTS
	E5.2.01	POWER RISER DIAGRAM	NTS





BID DOCUMENTS FEBRUARY 28, 2014

GENERAL NOTES

- 1. ALL 277V, 20A CIRCUIT HOMERUNS OVER 100 FT. SHALL BE #10 CU. MINIMUM, UNLESS OTHERWISE NOTED.
- 2. ALL 277V, 20A CIRCUITS WITH HOMERUNS OVER 150 FT. SHALL BE #10 CU. THROUGHOUT ENTIRE CIRCUIT MINIMUM,
- 3. NO MULTI-WIRE BRANCH CIRCUITS ARE TO BE USED. EACH CIRCUIT IS TO HAVE SEPARATE INDIVIDUAL NEUTRAL.
- 4. VERIFY EXACT LOCATION OF ALL MECH. EQUIP. INCLUDING WALL SWITCHES, T'STATS, ETC. WITH MECH. CONTRACTOR AND
- REFER TO MECHANICAL EQUIPMENT SCHEDULE, FOR RESPECTIVE CONDUIT/CONDUCTORS, DISCONNECTS, MISC. EQUIPMENT REQUIRED FOR ALL MECHANICAL AND PLUMBING EQUIPMENT. REFER TO PANEL SCHEDULES FOR CIRCUITS NUMBERS OF CIRCUITS FOR MECHANICAL AND PLUMBING EQUIPMENT.
- VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- 7. READ SPECIFICATIONS.
- 8. SEE RISER DIAGRAMS AND BUILDING PLANS.
- 9. ALL EMPTY CONDUITS ARE TO HAVE PULL-STRINGS PROVIDED IN THEM.
- 10. SPLICES IN POWER AND LIGHTING OUTLET BOXES SHALL BE KEPT TO A MINIMUM, PULL CONDUCTORS THROUGH TO DEVICES, EQUIPMENT CABINETS/PANELBOARDS. SPLICING IN WIREWAYS IS NOT PERMITTED UNLESS SPECIAL WRITTEN PERMISSION IS GRANTED BY A/E.
- CONTRACTOR SHALL INCLUDE IN HIS BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL RULES, REGULATIONS AND GUIDELINES APPLICABLE. CONTRACTOR SHALL COMPLY FULLY WITH FLORIDA STATUTE 403.7186 REGARDING MERCURY CONTAINING DEVICES AND LAMPS. LAMPS, BALLASTS AND OTHER MATERIALS SHALL BE TRANSPORTED AND DISPOSED OF IN ACCORDANCE WITH ALL DEP AND EPA GUIDELINES APPLICABLE AT TIME OF DISPOSAL. CONTRACTOR SHALL PROVIDE OWNER WITH WRITTEN CERTIFICATION OF ACCEPTED DISPOSAL.
- MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FT. OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. (DRAWINGS ONLY SHOW DIAGRAMMATIC LOCATION OF CONNECTION).
- PROVIDE, INSTALL AND CONNECT ONE 20 AMP DUPLEX RECEPTACLE IN CAST WEATHERPROOF BOX WITH WEATHERPROOF COVER WITHIN 25 FEET OF ALL MECHANICAL EQUIPMENT INSTALLED ON ROOFS OR IN ATTICS. CONNECT RECEPTACLES TOGETHER (MAXIMUM OF SIX PER CIRCUIT) WITH #10 WIRE AND CONNECT TO CLOSEST 120 VOLT PANEL. CONNECT TO 20 AMP 1 POLE SPARE CIRCUIT BREAKER AND RELABEL BREAKER "ROOF RECEPTS."
- EXISTING CONDITIONS INDICATED ARE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS, VARIOUS SURVEYS, AND FIELD INVESTIGATIONS. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ENGINEER MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED A PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC., PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
- 15. REMOVE EXISTING POWER, LIGHTING, SYSTEMS, MATERIAL AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE
- REINSTALL ANY SUCH POWER, LIGHTING, SYSTEMS, MATERIALS AND EQUIPMENT WHICH ARE REQUIRED TO REMAIN ACTIVE FOR THE FACILITY TO BE FULLY FUNCTIONAL.
- 17. ALL EXISTING ELECTRICAL IS NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID, AND INCLUDE IN HIS BID THE REMOVAL OF ALL ELECTRICAL EQUIPMENT, WIRE, CONDUIT, DEVICES, FIXTURES, ETC. THAT IS NOT BEING REUSED, BACK TO ITS SOURCE.
- 18. ALL RECEPTACLES, DEVICES AND EQUIPMENT NOT SHOWN, AND IN AREAS OUTSIDE OF REMODELING SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. FURNISH AND INSTALL ACCESSIBLE JUNCTION BOXES AND REWORK EXISTING CIRCUITS AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO RECEPTACLES, DEVICES AND EQUIPMENT REMAINING.
- 19. ALL CONDUIT TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E. EXPOSED CEILINGS, BUILDING EXTERIOR WALL RUNS, IMPOSSIBLE UNDERGROUND RUNS). CONCEAL ALL CONDUITS ABOVE CEILINGS OR IN WALL/COUNTERS.
- 20. ALL NEW DEVICES TO BE FLUSH MOUNTED UNLESS SPECIFICALLY NOTED OTHERWISE.
- 21. PROVIDE NEW TYPED PANEL DIRECTORIES FOR ALL EXISTING AND NEW PANELBOARDS FOR PANELBOARDS ASSOCIATED WITH CONTRACT WHETHER SHOWN ON PLANS OR NOT REGARDLESS IF SCHEDULES/CIRCUITRY HAS BEEN CHANGED.
- 22. PROVIDE NEW PHENOLIC LABELS (PER SPEC'S) ON ALL (2) TWO POLE AND (3) THREE POLE CIRCUIT BREAKERS WITHIN ALL EXISTING AND NEW PANELBOARDS ASSOCIATED WITH CONTRACT WHETHER SHOWN ON PLANS OR NOT REGARDLESS IF SCHEDULES/CIRCUITRY HAS BEEN CHANGED.
- 23. ALL EXISTING AND NEW CIRCUIT BREAKERS WITHIN EACH EXISTING PANELBOARD SHALL BE THE SAME MFG. TYPE, STYLE AND A.I.C. RATING OF EXISTING PANELBOARD REGARDLESS OF WHAT IS SHOWN ON PANEL SCHEDULE. FIELD VERIFY ALL EXISTING PANELBOARD(S) RELATED WITH CONTRACT AND REPLACE CIRCUIT BREAKERS AS NECESSARY TO COMPLY WITH THIS
- 24. ALL CONCRETE, WALL PATCHING, CEILING REPAIR, WALL FINISHES, AND OTHER GENERAL WORK REQUIRED FOR INSTALLING ELECTRICAL SYSTEMS SHALL BE REPAIRED TO "LIKE NEW/ORIGINAL CONDITION." (COORDINATE WITH GENERAL CONTRACTOR
- 25. ALL OPENINGS IN FIRE RATED WALLS AND FLOORS, ETC. MADE BY RENOVATION SHALL BE SEALED AND FIREPROOFED. PROVIDE AND INSTALL FIRESTOPPING ON ALL NEW OR EXISTING CONDUIT AND/OR CABLE THAT PENETRATES ANY FIRE RATED NEW OR EXISTING WALL IN ALL AREAS AFFECTED BY THIS PROJECT. VERIFY LOCATION OF FIRE RATED WALLS WITH ARCHITECTURAL PLANS PRIOR TO BID. FIRESTOPPING SYSTEM SHALL BE AS REQUIRED BY UL FOR RATING OF WALL AND CONDUIT/CABLE PENETRATION.
- 26. DASHED ITEMS INDICATE EXISTING TO REMAIN.
- 27. "R" ADJACENT TO DEVICE INDICATES EXISTING TO BE REMOVED COMPLETE.
- 28. ALL ITEMS REMOVED AND NOT RE-USED SHALL BE IMMEDIATELY TURNED OVER TO OWNER AS THEY ARE MADE AVAILABLE BY RENOVATION. REMOVE ITEMS FROM JOB SITE AND DELIVER TO OWNERS STORAGE LOCATION(S) AS DIRECTED BY PROJECT MANAGER. DISCARD COMPLETE ITEMS WHICH OWNER ELECTS TO REFUSE.
- 29. CONTRACTOR MAY REUSE EXISTING CONDUIT (MIN. OF 10' LENGTHS) AND ASSOCIATED FITTINGS, PULL BOXES, ETC., WHICH ARE IN "LIKE NEW CONDITION" AND WHICH MEET THE INTENT OF THE SPECIFICATIONS FOR NEW PRODUCTS. WHERE FXISTING RACEWAYS ARE RELISED. THE CONTRACTOR SHALL REMOVE EXISTING WIRING, PULL IN NEW WIRING, AND CONNECT REUSE OF EXISTING DEVICES TING CONDUITS THAT ARE REUSED

EXISTING NACEWAYS AND NEOSED, THE CONTINACTOR SHALL NEMOVE I	LAISTING WIINING, FULL I
TO NEW DEVICES AS SHOWN ON THE DRAWINGS AND CALLED FOR IN	THE SPECIFICATIONS.
AND WIRING SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED O)THERWISE. ALL EXISTIN
SHALL BE PERMANENTLY IDENTIFIED IN ACCORDANCE WITH THE SPECI	FICATIONS.

		SYMBOL LEGEND			
SYMBOL	DESCRIPTION	DESIGN SELECTION	APPROVED SUBSTITUTION	APPROVED SUBSTITUTION	REMARKS
0	CEILING OUTLET BOX AND LIGHT FIXTURE ON EMERGENCY SYSTEM BRANCH CIRCUIT	SEE FIXTURE SCHEDULE			d
₽	WALL OUTLET BOX AND HID, FLUORESCENT OR INCANDESCENT FIXTURE ON EMERGENCY SYSTEM BRANCH CIRCUIT	SEE FIXTURE SCHEDULE			d
	120/208V BRANCH CIRCUIT PANELBOARD SURFACE MOUNTED	SQUARE "D"	G.E.	SIEMENS	i
222	277/480V BRANCH CIRCUIT PANELBOARD SURFACE MOUNTED	SQUARE "D"	G.E.	SIEMENS	i
	LIGHTING CONTROL OR DIMMER PANEL — SURFACE MOUNTED				
酉	TRANSFORMER	SQUARE "D"	G.E.	SIEMENS	i
R	RELAY, AS NOTED				
C	CONTROL AND/OR POWER CONNECTION ON EQUIPMENT				i
	DISCONNECT SWITCH, SIZE AS NOTED	SQUARE "D"	G.E.	SIEMENS	g, i
	BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. SLASH MARKS INDICATE NUMBER OF CONDUCTORS (GROUND WIRE NOT SHOWN). TWO CONDUCTORS PLUS GROUND REQUIRED (UNLESS OTHERWISE NOTED OR MARKED)				
/-	120V BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL.				
	HOME RUN WIRING. ONE CIRCUIT PER ARROW HEAD				
NOTES:					

- 1) ALL DEVICES TO BE GREY WITH SMOOTH METAL #302 S.S. PLATES UNLESS OTHERWISE NOTED.
- 2) DASHED ITEM DENOTES "EXISTING".
- 3) "R" BY DEVICE DENOTES EXISTING TO BE REMOVED COMPLETELY.
- 4) "H" BY DEVICE DENOTES DEVICE TO BE MOUNTED HORIZONTALLY.
- 5) MOUNT SWITCHES AT 48" AFF TO TOP.
- 6) SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 7) ALL ITEMS NOTED ON THE LEGENDS DO NOT NECESSARILY APPEAR ON PLANS.
- b) SUPPORT OUTLET BOX FROM STRUCTURE WITH (1) 3/8" ALL THREADS MINIMUM. BOXES LARGER THAN 25 SQUARE INCHES SHALL BE SUPPORTED WITH (2) 3/8" ALL THREADS MINIMUM.
- d) JUNCTION/OUTLET BOX SHALL BE SIZED AS REQUIRED FOR CONDUCTOR/DEVICE FILL PER N.E.C.
- g) PROVIDE KINDORF MTG. RACK FOR FREE STANDING APPLICATIONS. KINDORF SHALL BE PVC
- h) WHEN SURFACE JUNCTION BOX SYMBOL IS COMBINED WITH DEVICE SYMBOL, PROVIDE APPROPRIATE SURFACE PLATE FOR OUTLET APPLICATION.

COATED FOR EXTERIOR APPLICATIONS. ALL CUT ENDS ARE TO BE SEALED.

i) MAINTAIN WORKING CLEARANCES IN STRICT ACCORDANCE WITH N.E.C. COORDINATE EXACT LOCATION OF EQUIPMENT WITH ALL DISCIPLINES (I.E. STRUCTURAL, HVAC, PLUMBING, FIRE PROTECTION, KITCHEN, MILLWORK, ETC.) PRIOR TO ROUGH-IN TO MAINTAIN CLEARANCES.

	MATERN
	Professional
	ENGINEERING MEP/FP Engineering Consultants - A Solutions Based Firm
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Matern Professional Engineering, Inc 130 Candace Drive Maitland, FI 32751-3331

PHONE (407) 740-5020 FAX (407) 740-0365 THIS DRAWING IS THE PROPERTY OF MATERN PROFESSIONAL CONTRACT, THE CONTENTS OF THIS DRAWING SHALL NOT BE TRANSMITTED TO ANY OTHER PARTY EXCEPT AS AGREED TO

BY THE ENGINEER. ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

OCCC PHASE 1 **CATWALK POWER**

Rev	isions	
No.	Date	Description

DEMOLITION LEGEND

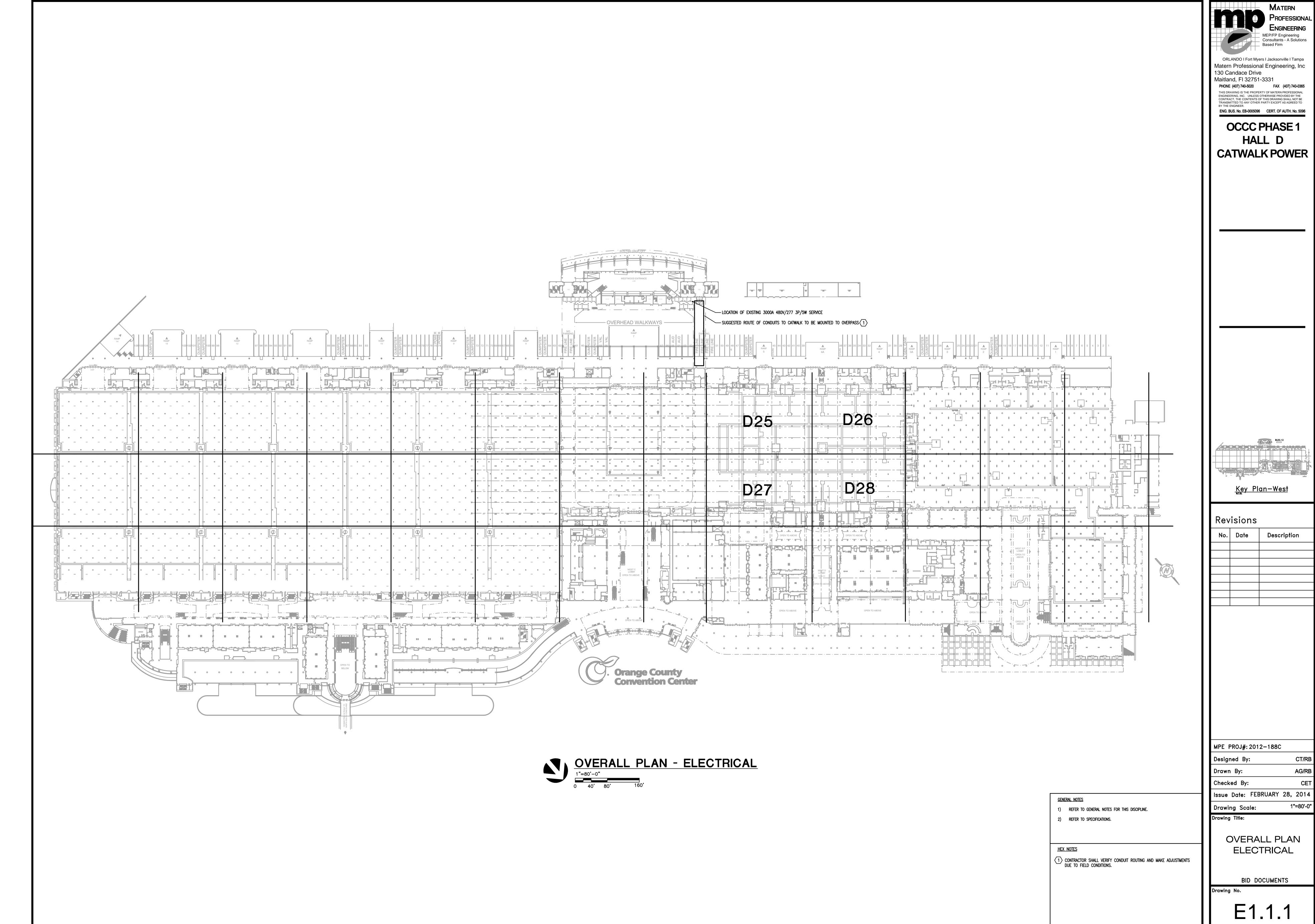
- R1 REMOVE ALL ELECTRICAL ASSOCIATED WITH THIS ITEM, COMPLETE BACK TO ITS SOURCE. SOURCE IS CONSIDERED TO BE FIRST UPSTREAM DEVICE OR CIRCUIT BREAKER THAT FEEDS THIS AFFECTED CIRCUIT. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- REMOVE ALL ELECTRICAL IN AREA OF REMODEL/RENOVATION COMPLETE BACK TO ITS SOURCE. SOURCE IS CONSIDERED TO BE FIRST UPSTREAM DEVICE OR CIRCUIT BREAKER OUTSIDE OF AREA OF REMODEL THAT FEEDS CIRCUITS/DEVICES WITHIN AREA OF REMODEL/RENOVATION. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- EXISTING WALLS TO BE REMOVED COMPLETE.
- **EXISTING WALLS TO REMAIN.**

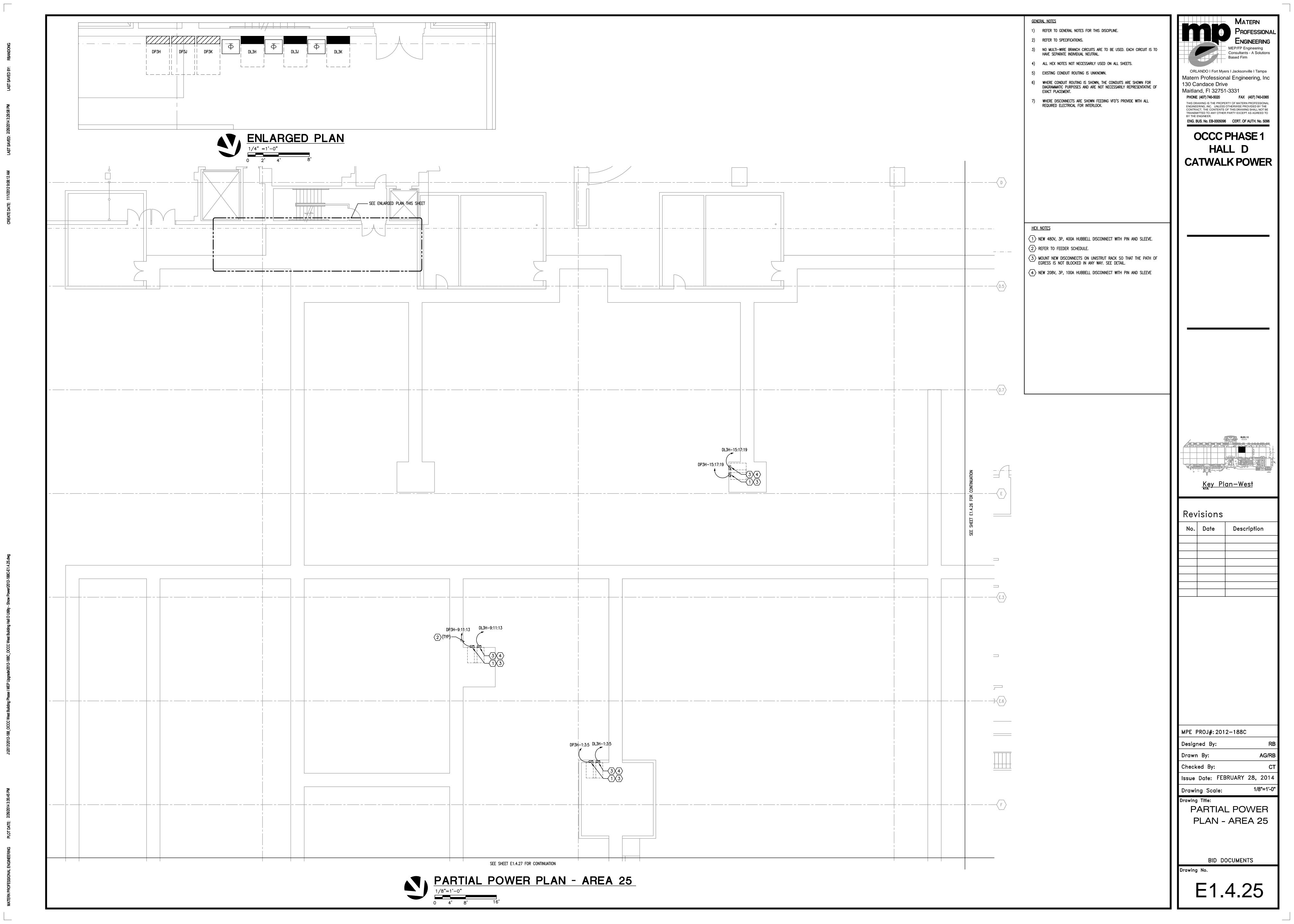
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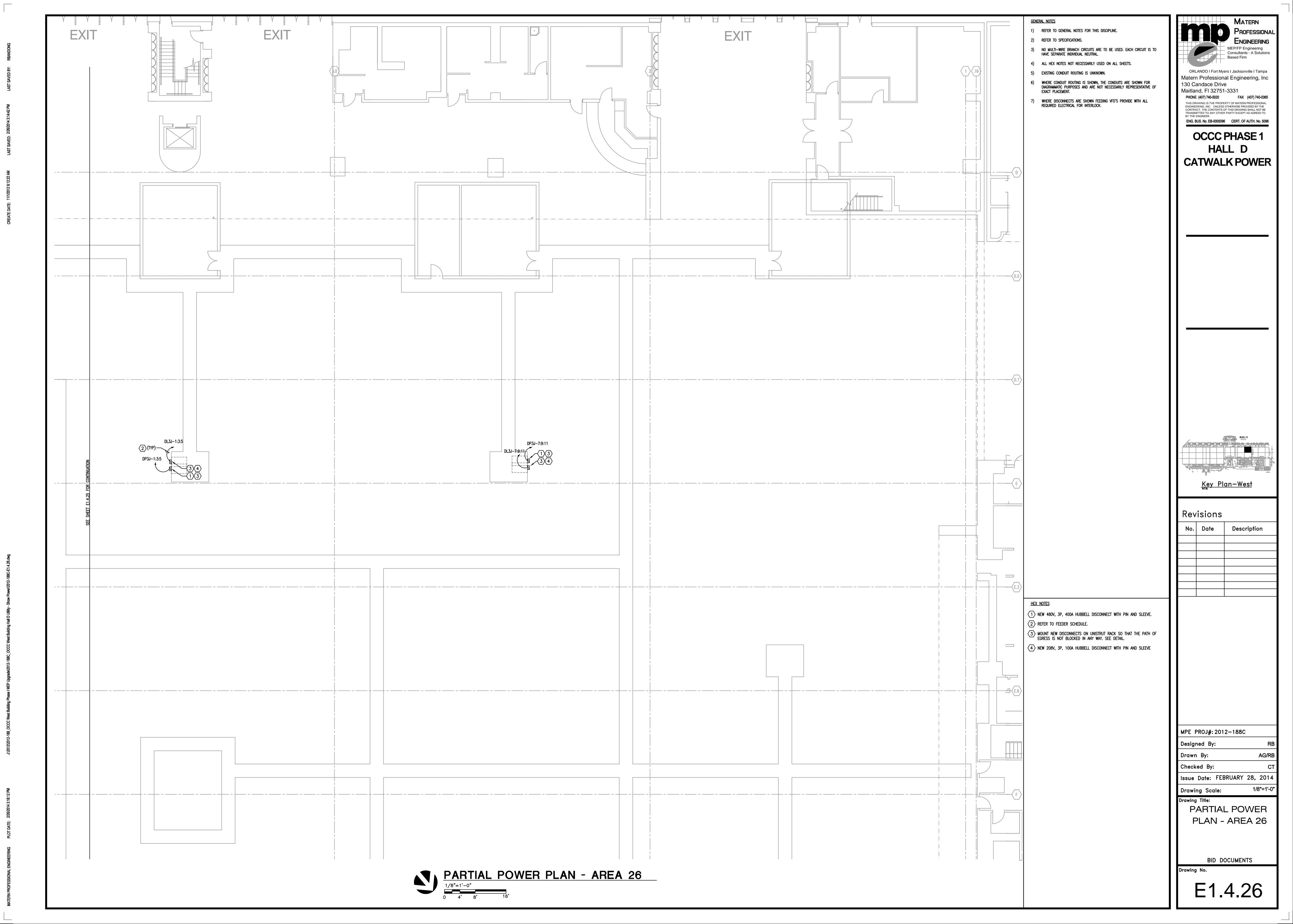
> **GENERAL NOTES** AND LEGENDS

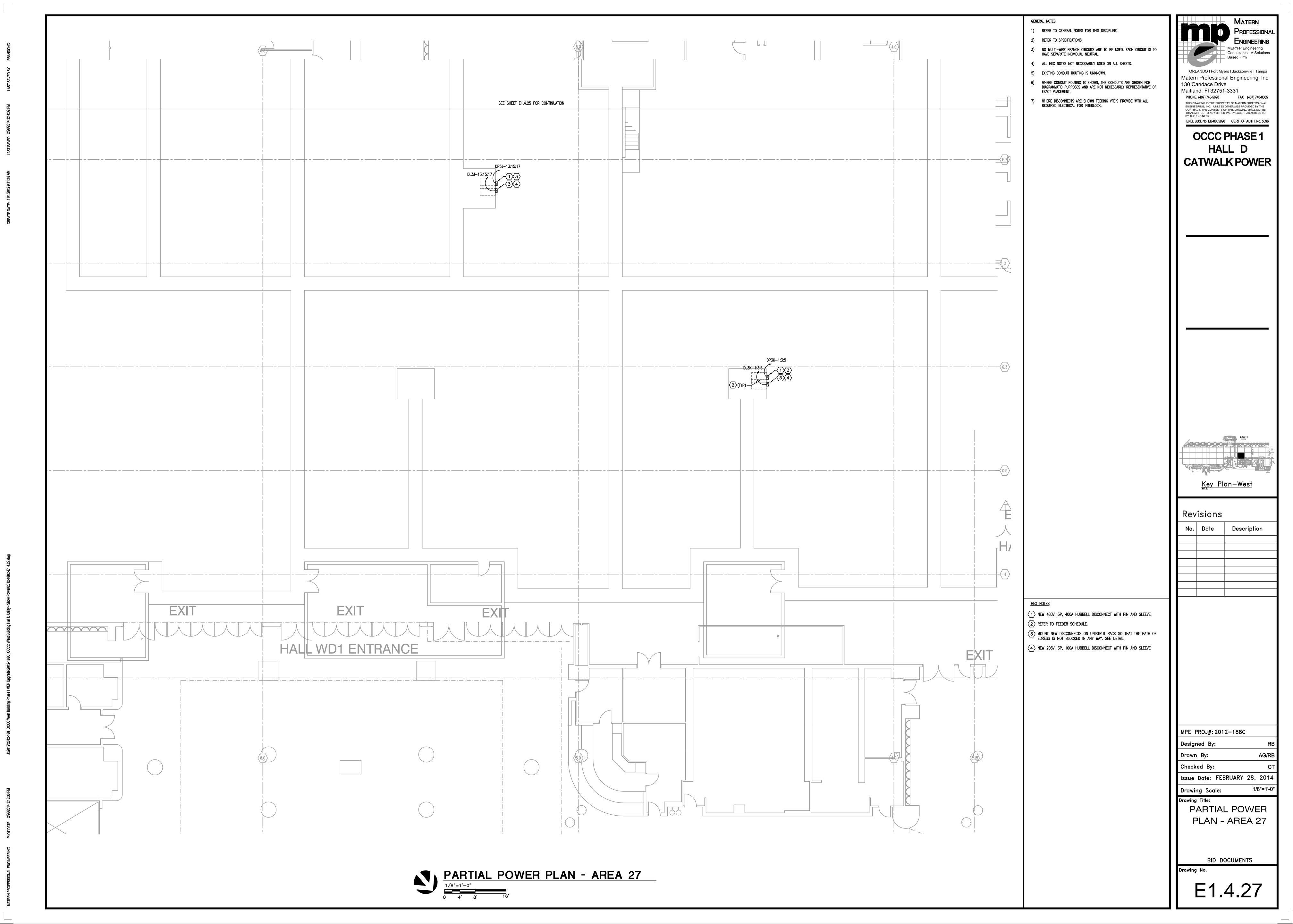
BID DOCUMENTS

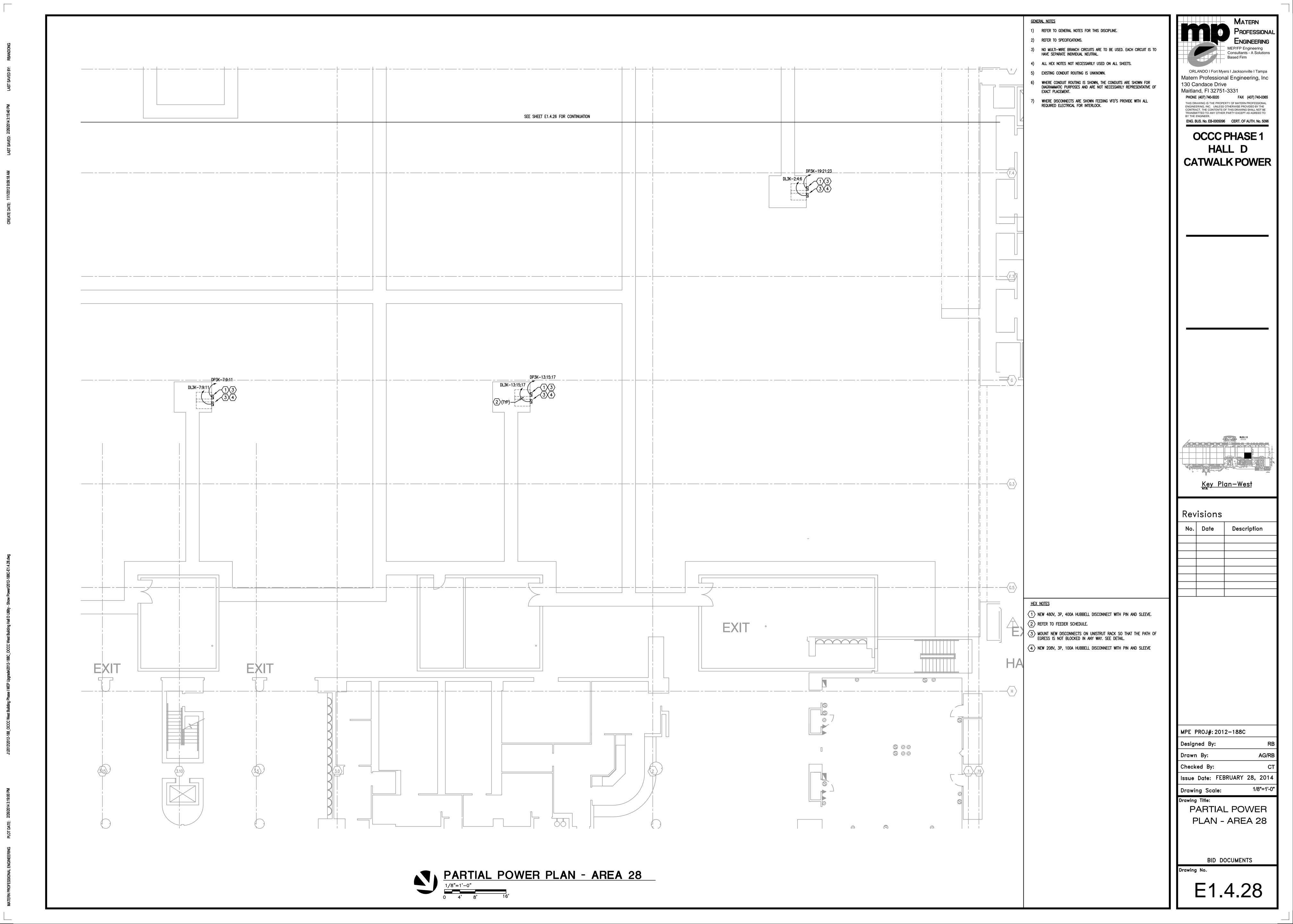
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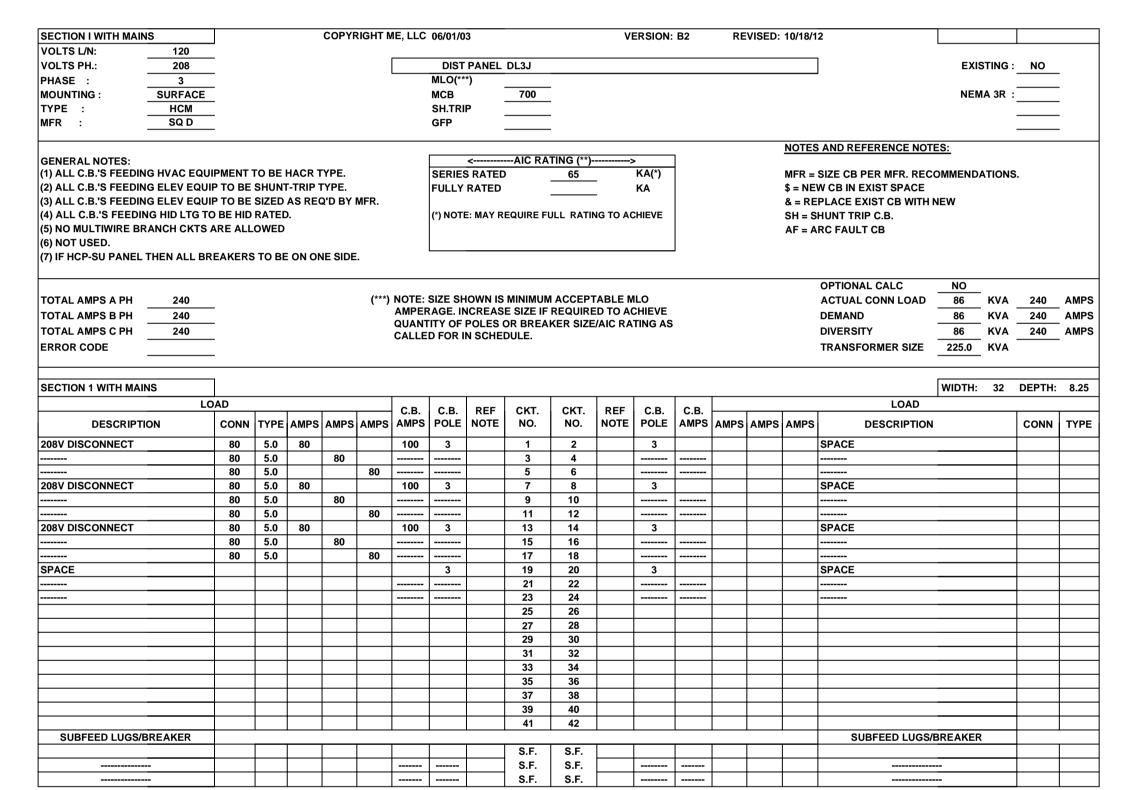


SECTION I WITH MAINS OLTS L/N: 277	$\overline{}$			COBVI	SICHT I	/IE, LLC	06/04/0	13			1/	ERSION:	B2	D.	VISED:	10/40/4	<u>, </u>			
	_			COPTI	KIGHI N	ME, LLC	06/01/0	3			V	ERSION:	В2	KE	VISED:	10/18/1	2			
OLTS PH.: 480	_							PANEL	DP3H									EXISTING:	NO	
HASE : 3 OUNTING: SURFACE	_						MLO(**	^)	1200	-								NEMA 3R :		
YPE : HCR-U	_						SH.TRI	Р		_										
FR :							GFP			-										
ENERAL NOTES:									AIC RA	TING (**)			1			NOTES	AND REFERENCE NOTE	<u>S:</u>		
) ALL C.B.'S FEEDING HVAC EQ							SERIES	S RATE		65	_	KA(*)	-			MFR =	SIZE CB PER MFR. RECO	MMENDATIONS	•	
) ALL C.B.'S FEEDING ELEV EQU) ALL C.B.'S FEEDING ELEV EQU					MED		FULLY	RATED			_	KA				•	W CB IN EXIST SPACE PLACE EXIST CB WITH N	EW		
) ALL C.B.'S FEEDING HID LTG				2001	WIII IX.		(*) NOTI	E: MAY R	EQUIRE F	ULL RATI	NG TO A	CHIEVE					HUNT TRIP C.B.	E VV		
) NO MULTIWIRE BRANCH CKTS	ARE ALL	.OWED														AF = A	RC FAULT CB			
) NOT USED.) IF HCP-SU PANEL THEN ALL B	REAKERS	з то ве	ON ON	NE SIDE	i.]							
																	ORTIONAL CALC	NO		
OTAL AMPS A PH 854					(***)	NOTE:	SIZE SH	IOWN IS	MINIMUN	M ACCEP	TABLE N	ILO					OPTIONAL CALC ACTUAL CONN LOAD	NO KVA	958	AMP
OTAL AMPS B PH 854	_									REQUIR							DEMAND	796 KVA	958	AMP
OTAL AMPS C PH 854	_							N SCHE		INER SIZI	Z/AIC RA	TING AS					DIVERSITY	796 KVA	958	AMP
RROR CODE	_																TRANSFORMER SIZE	KVA		
ECTION 1 WITH MAINS																		WIDTH: 44	DEPTH:	0.50
	OAD					0.0	0.0	DEE	OKT	OVT	DEE	0.0					LOAD	WIDTH. 44	DEFIN.	9.50
DESCRIPTION	CONN	TYPE	AMPS	AMPS	AMPS	C.B. AMPS	C.B. POLE	REF NOTE	CKT. NO.	CKT. NO.	REF NOTE	C.B. POLE	C.B. AMPS	AMPS	AMPS	AMPS	DESCRIPTION		CONN	TYP
00A DISCONNECT	250	5.0	250			400	3		1	2		3					SPACE			
	250	5.0		250	250				3	4										
00A DISCONNECT	250 250	5.0 5.0	250		250	400	3		5 7	8		3					SPACE			
	250	5.0		250					9	10										
 00A DISCONNECT	250 250	5.0 5.0	250		250	400	3		11 13	12 14		3					SPACE			
	250	5.0	250	250					15	16										
 ANEL: DL3H	250 104	5.0 14.0	104		250	300	3		17 19	18 20										
	104	14.0	104	104					21	22										
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SUBFEED LUGS/BREAKER				I	1		Τ	Τ	S.F.	S.F.		I	Τ				SUBFEED LUGS/B	REAKER		
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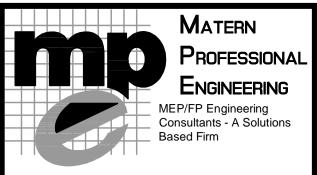
SECTION I WITH MAINS				COPYR	IGHT N	1E, LLC	06/01/0	3			V	ERSION:	B2	RE	VISED:	10/18/1	2				
VOLTS L/N: 277	_																			•	
VOLTS PH.: 480	_						DIST	PANEL	DP3J]	FXIS	STING ·	NO	
PHASE : 3	_						MLO(**														-
MOUNTING: SURFACE	_						MCB	,	1200	-								NEM	IA 3R:		-
TYPE : HCR-U	-						SH.TRI	D	1200	-								IATIA	IA 3IN .		-
MFR : SQ D	_						GFP			-											-
							GIT			=											-
GENERAL NOTES:								<	AIC RA	TING (**)-		•	1			NOTES	S AND REFERENCE NOT	ES:			
(1) ALL C.B.'S FEEDING HVAC EQU	UIPMENT 7	го ве	HACR T	YPE.				RATED		65		KA(*)				MFR =	SIZE CB PER MFR. REC	OMMENDA	ATIONS	.	
(2) ALL C.B.'S FEEDING ELEV EQU								RATED			-	KA					W CB IN EXIST SPACE	· · · · · · · · · · · · · · · · · · ·			
(3) ALL C.B.'S FEEDING ELEV EQU					MFR.		0				-						PLACE EXIST CB WITH	NFW			
(4) ALL C.B.'S FEEDING HID LTG T							(*) NOTE	- MAY R	FOURF F	ULL RATIN	NG TO A	HIEVE					HUNT TRIP C.B.				
(5) NO MULTIWIRE BRANCH CKTS							()		LGOIRL	OLL 1171111	10 10 /10	,,,,_v_					RC FAULT CB				
(6) NOT USED.	, , , , , , , , , , , , , , , , , , , ,	0112														AI - A	ING I AGEI GB				
(7) IF HCP-SU PANEL THEN ALL B	REAKERS	TO BE	ON ON	E SIDF	_								J								
(.) NOT COT MILE THERE ALE D				_ 0.00.	•																
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TOTAL AMPS A PH 854	_				٠,					ACCEP1							ACTUAL CONN LOAD	796	KVA	958	_ AM
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SECTION 1 WITH MAINS	\neg																	WIDTH:	44	DEPTH:	: 9.5
	LOAD					0.5	0.5	DEE	CIT	OKT	D==	0.5	0.5				LOAD	1		z=	
DESCRIPTION	CONN	TYPE	AMPS	AMPS	AMPS	C.B. AMPS	C.B. POLE	REF NOTE	CKT. NO.	CKT. NO.	REF NOTE	C.B. POLE	C.B. AMPS	AMPS	AMPS	AMPS	DESCRIPTION			CONN	TYF
400A DISCONNECT	250	5.0	250			400	3		1	2		3					SPACE			 	+
	250	5.0		250					3	4											+
	250	5.0			250				5	6	1										+
400A DISCONNECT	250	5.0	250		200	400	3		7	8	1				 			_		 	+
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PANEL: DL3J SPACE	250 250 250 250 250 104 104	5.0 5.0 5.0 5.0 14.0		250	250	300	3 3 3 		11 13 15 17 19 21 23 25 27	12 14 16 18 20 22 24 26 28											
PANEL: DL3J SPACE	250 250 250 250 250 104 104	5.0 5.0 5.0 5.0 14.0		250	250	300	3 3 3 		11 13 15 17 19 21 23 25 27 29	12 14 16 18 20 22 24 26 28 30											
PANEL: DL3J SPACE SPACE	250 250 250 250 250 104 104	5.0 5.0 5.0 5.0 14.0		250	250	300	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		11 13 15 17 19 21 23 25 27 29 31	12 14 16 18 20 22 24 26 28 30 32											
PANEL: DL3J SPACE SPACE SPACE	250 250 250 250 250 104 104	5.0 5.0 5.0 5.0 14.0		250	250	300	3 3 3 		11 13 15 17 19 21 23 25 27 29 31 33	12 14 16 18 20 22 24 26 28 30 32 34											
PANEL: DL3J SPACE SPACE	250 250 250 250 250 104 104	5.0 5.0 5.0 5.0 14.0		250	250	300	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		11 13 15 17 19 21 23 25 27 29 31 33 35	12 14 16 18 20 22 24 26 28 30 32 34 36											
PANEL: DL3J SPACE SPACE SPACE	250 250 250 250 250 104 104	5.0 5.0 5.0 5.0 14.0		250	250	300	3 3 3 		11 13 15 17 19 21 23 25 27 29 31 33 35 37	12 14 16 18 20 22 24 26 28 30 32 34 36 38											
PANEL: DL3J SPACE SPACE SPACE	250 250 250 250 250 104 104	5.0 5.0 5.0 5.0 14.0		250	250	300	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		11 13 15 17 19 21 23 25 27 29 31 33 35 37	12 14 16 18 20 22 24 26 28 30 32 34 36 38 40											
PANEL: DL3J SPACE SPACE SPACE SPACE SPACE	250 250 250 250 250 104 104	5.0 5.0 5.0 5.0 14.0		250	250	300	3 3 		11 13 15 17 19 21 23 25 27 29 31 33 35 37	12 14 16 18 20 22 24 26 28 30 32 34 36 38											
PANEL: DL3J SPACE SPACE SPACE SPACE	250 250 250 250 250 104 104	5.0 5.0 5.0 5.0 14.0		250	250	300	3 3 3 3 3 		11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42							SUBFEED LUGS/	BREAKER			
SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE SPACE	250 250 250 250 250 104 104	5.0 5.0 5.0 5.0 14.0		250	250	300	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42											
PANEL: DL3J SPACE SPACE SPACE SPACE	250 250 250 250 250 104 104	5.0 5.0 5.0 5.0 14.0		250	250	300	3 3 3 3 3 		11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42							SUBFEED LUGS/				

VOLTS L/N:	NS				COPYR	IGHT N	ME, LLC	06/01/0	3			V	ERSION:	B2	RE	VISED:	10/18/1	2				
	277	_																			-	
VOLTS PH.:	480	_						DIST	PANEL	DP3K									EXIS	STING:	NO	
PHASE :	3	_						MLO(**										ı				-
MOUNTING:	SURFACE	-						MCB		1200	-								NEW	1A 3R :		-
TYPE :	HCR-U	_						SH.TRI	Р		-											-
MFR :	SQ D	_						GFP			-											-
											-											
GENERAL NOTES:									<	AIC RA	TING (**)-		<u> </u>	1			NOTES	AND REFERENCE NOT	ES:			
(1) ALL C.B.'S FEEDIN	IG HVAC EQU	IPMENT :	то ве	HACR T	YPE.			SERIES	S RATED		65		KA(*)	1			MFR =	SIZE CB PER MFR. REC	OMMEND	ATIONS	3 .	
(2) ALL C.B.'S FEEDIN									RATED			-	KA					W CB IN EXIST SPACE	· · · · · · · · · · · · · · · · · · ·			
(3) ALL C.B.'S FEEDIN						MFR.		0				-					•	PLACE EXIST CB WITH	NFW			
(4) ALL C.B.'S FEEDI								(*) NOT	E: MAY R	EQUIRE F	ULL RATII	NG TO A	CHIEVE					HUNT TRIP C.B.				
(5) NO MULTIWIRE BE								()										RC FAULT CB				
(6) NOT USED. (7) IF HCP-SU PANEL	THEN ALL BF	REAKERS	то в	ON ON	E SIDE.									_								
(.,																						
TOTAL AMBO A BU	4400					(***)	NOTE:	CIZE CI	IOWAL IO	MINIMALIA	A ACCED	TADIE *						OPTIONAL CALC	NO 047	IC) (A	4400	
TOTAL AMPS A PH	1139	_				(""")				MINIMUN E SIZE IF								ACTUAL CONN LOAD	947	KVA	1139	_
TOTAL AMPS B PH	1139	_								OR BREA								DEMAND	947	KVA	1139	_
TOTAL AMPS C PH	1139	_							N SCHE									DIVERSITY	947	KVA	1139	_ AMF
ERROR CODE		_																TRANSFORMER SIZE		KVA		
SECTION 1 WITH MAI	NS	7																	WIDTH:	44	DEPTH:	9.5
	LC	DAD					C.B.	C.B.	REF	скт.	СКТ.	REF	C.B.	C.B.				LOAD	•			
DESCRIPT	ION	CONN	TYPE	AMPS	AMPS	AMPS				NO.	NO.	NOTE			AMPS	AMPS	AMPS	DESCRIPTION	l		CONN	TYP
400A DISCONNECT		250	5.0	250			400	3		1	2											
	_	250	5.0		250					3	4											\perp
		250	5.0			250				5	6											
400A DISCONNECT		250	5.0	250			400	3		7	8											—
		250	5.0		250					9	10											
		250	5.0			250		l	1													
	_									11	12			 					_			
400A DISCONNECT		250	5.0	250			400	3		13	14											+
		250	5.0	250	250					13 15	14 16											
		250 250	5.0 5.0		250	250				13 15 17	14 16 18											
400A DISCONNECT		250 250 250	5.0 5.0 5.0	250 250			400	3		13 15 17 19	14 16 18 20											
		250 250 250 250	5.0 5.0 5.0 5.0		250	250	400	3 		13 15 17 19 21	14 16 18 20 22											
400A DISCONNECT		250 250 250 250 250 250	5.0 5.0 5.0 5.0 5.0	250			400	3 		13 15 17 19 21 23	14 16 18 20 22 24											
 400A DISCONNECT		250 250 250 250 250 250 139	5.0 5.0 5.0 5.0 5.0 14.0	250	250	250	400	3 		13 15 17 19 21 23 25	14 16 18 20 22 24 26											
400A DISCONNECT PANEL: DL3K		250 250 250 250 250 250 139 139	5.0 5.0 5.0 5.0 5.0 14.0	250		250 250	400 300	3 3 3		13 15 17 19 21 23 25 27	14 16 18 20 22 24 26 28											
400A DISCONNECT PANEL: DL3K		250 250 250 250 250 250 139	5.0 5.0 5.0 5.0 5.0 14.0	250	250	250	400	3 3 		13 15 17 19 21 23 25 27 29	14 16 18 20 22 24 26 28 30											
 400A DISCONNECT PANEL: DL3K SPACE		250 250 250 250 250 250 139 139	5.0 5.0 5.0 5.0 5.0 14.0	250	250	250 250	400 300	3 3 3 3		13 15 17 19 21 23 25 27 29 31	14 16 18 20 22 24 26 28 30 32											
PANEL: DL3K		250 250 250 250 250 250 139 139	5.0 5.0 5.0 5.0 5.0 14.0	250	250	250 250	400 300	3 3 3 		13 15 17 19 21 23 25 27 29 31 33	14 16 18 20 22 24 26 28 30 32 34											
		250 250 250 250 250 250 139 139	5.0 5.0 5.0 5.0 5.0 14.0	250	250	250 250	400 300	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		13 15 17 19 21 23 25 27 29 31 33 35	14 16 18 20 22 24 26 28 30 32 34 36											
PANEL: DL3K SPACE		250 250 250 250 250 250 139 139	5.0 5.0 5.0 5.0 5.0 14.0	250	250	250 250	300	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		13 15 17 19 21 23 25 27 29 31 33 35 37	14 16 18 20 22 24 26 28 30 32 34 36 38											
PANEL: DL3K SPACE SPACE		250 250 250 250 250 250 139 139	5.0 5.0 5.0 5.0 5.0 14.0	250	250	250 250	300	3 3 3 		13 15 17 19 21 23 25 27 29 31 33 35 37	14 16 18 20 22 24 26 28 30 32 34 36 38 40											
### 100 A DISCONNECT ### 100 A DISCONNECT	BREAKER	250 250 250 250 250 250 139 139	5.0 5.0 5.0 5.0 5.0 14.0	250	250	250 250	300	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		13 15 17 19 21 23 25 27 29 31 33 35 37	14 16 18 20 22 24 26 28 30 32 34 36 38							SUBFFFD LUGS	BREAKER			
### SPACE	BREAKER	250 250 250 250 250 250 139 139	5.0 5.0 5.0 5.0 5.0 14.0	250	250	250 250	300	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		13 15 17 19 21 23 25 27 29 31 33 35 37	14 16 18 20 22 24 26 28 30 32 34 36 38 40							SUBFEED LUGS/	BREAKER			
### 100 A DISCONNECT ### 100 A DISCONNECT		250 250 250 250 250 250 139 139	5.0 5.0 5.0 5.0 5.0 14.0	250	250	250 250	300	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	14 16 18 20 22 24 26 28 30 32 34 36 38 40							SUBFEED LUGS/				

SECTION I WITH MAIN		I			COBVE	DIGHT N	ME, LLC	06/01/0	2			V	ERSION:	P2	DE	VICED:	10/18/1	2			
VOLTS L/N:	120	J			COPTR	NIGHT N	ne, ele	00/01/0	3			v	EKSION.	DZ	KE	VISED.	10/10/1	2			
VOLTS PH.:	208							DIST	PANEL	DI 3H								1	EXISTING:	NO	
PHASE :	3	•						MLO(**		DESIT								J	EXISTING.	NO	-
MOUNTING:	SURFACE							MCB	,	700	-								NEMA 3R:		-
TYPE :	HCM							SH.TRI	P	700	-								NEWA SIC.		_
MFR :	SQ D	•						GFP	•		-										_
		-						.			-										_
GENERAL NOTES: (1) ALL C.B.'S FEEDIN (2) ALL C.B.'S FEEDIN (3) ALL C.B.'S FEEDIN (4) ALL C.B.'S FEEDIN (5) NO MULTIWIRE BR (6) NOT USED.	G ELEV EQUII G ELEV EQUII IG HID LTG TO ANCH CKTS A	P TO BE P TO BE D BE HID ARE ALL	SHUNT SIZED RATED OWED	T-TRIP T AS REC).	TYPE. Q'D BY I			SERIES FULLY	RATED)	TING (**)- 65 ULL RATII	-	KA(*) KA				MFR = \$ = NE & = RE SH = S	S AND REFERENCE NOT SIZE CB PER MFR. REC W CB IN EXIST SPACE PLACE EXIST CB WITH HUNT TRIP C.B. RC FAULT CB	OMMENDATIONS	3.	
(7) IF HCP-SU PANEL TOTAL AMPS A PH TOTAL AMPS B PH TOTAL AMPS C PH ERROR CODE	240 240 240	- -	. 10 66	- OI4 OF	TE SIDE		AMPER QUANT	RAGE. IN	ICREAS	E SIZE IF OR BREA	M ACCEPT REQUIRE	ED TO A	CHIEVE					OPTIONAL CALC ACTUAL CONN LOAD DEMAND DIVERSITY TRANSFORMER SIZE	NO 86 KVA 86 KVA 86 KVA 225.0 KVA	240 240 240	_ AMPS _ AMPS _ AMPS
SECTION 1 WITH MAII										ı								LOAD	WIDTH: 32	DEPTH:	: 8.25
	LO	AD					C.B.	C.B.	REF	СКТ.	СКТ.	REF	C.B.	C.B.				LOAD		1	
DESCRIPTI	ON	CONN	TYPE	AMPS	AMPS	AMPS	AMPS	POLE	NOTE	NO.	NO.	NOTE	POLE	AMPS	AMPS	AMPS	AMPS	DESCRIPTION		CONN	TYPE
208V DISCONNECT		80	5.0	80			100	3		1	2		3					SPACE			
		80	5.0		80					3	4										
		80	5.0			80				5	6										
208V DISCONNECT		80	5.0	80			100	3		7	8		3					SPACE			
		80	5.0		80					9	10										
		80	5.0			80				11	12										
208V DISCONNECT		80	5.0	80			100	3		13	14		3					SPACE			
		80	5.0		80					15	16										
		80	5.0			80				17	18								_		
SPACE								3		19	20		3					SPACE			
										21	22										
										23	24										
										25	26										
										27	28										
										29	30	1					ļ				1
										31	32				\sqcup						1
										33	34								_		1
										35	36	1									1
										37	38								_		1
										39	40	1			\vdash						1
				L						41	42										
	BREAKER																	SUBFEED LUGS	BREAKER		
SUBFEED LUGS/E																					
SUBFEED LUGS/E										S.F.	S.F.										
SUBFEED LUGS/E	-									S.F. S.F. S.F.	S.F. S.F. S.F.										



SECTION I WITH MAINS	I			COPY	RIGHT N	/E, LLC	06/01/0)3			V	ERSION:	: B2	REV	ISED:	10/18/1	2	1		
VOLTS L/N: 120						,	00,0.,0				•				.025.	,, .	· -			
VOLTS PH.: 208	_						_	PANEL	DL3K]	EXISTIN	G: NO	_
PHASE : 3	_						MLO(**	·*)		-										_
MOUNTING: SURFAC	<u>E</u>						MCB		700	-								NEMA 3F	₹:	_
TYPE : HCM MFR : SQ D	_						SH.TRI	P		-										_
							.			-										_
									AIO DA	TINO (**)			,			NOTES	S AND REFERENCE NOTE	<u>S:</u>		
GENERAL NOTES: (1) ALL C.B.'S FEEDING HVAC E	QUIPMENT	TO BE	HACR 1	YPE.			SERIE	S RATED	AIC RA	65		> KA(*)	1			MFR -	SIZE CB PER MFR. RECO	OMMENDATIO	NS	
(2) ALL C.B.'S FEEDING ELEV E								RATED	•		-	KA					W CB IN EXIST SPACE	JIVIIVILIADATIO	140.	
(3) ALL C.B.'S FEEDING ELEV E					MFR.						-					& = RE	PLACE EXIST CB WITH N	IEW		
(4) ALL C.B.'S FEEDING HID LTG							(*) NOT	E: MAY R	EQUIRE F	ULL RATII	NG TO A	CHIEVE					HUNT TRIP C.B.			
(5) NO MULTIWIRE BRANCH CK (6) NOT USED.	S ARE ALL	.OWED														AF = A	RC FAULT CB			
(6) NOT USED. (7) IF HCP-SU PANEL THEN ALL	BREAKERS	то в	E ON O	NE SIDE	i.								J							
1.7		5 5.																		
																	OPTIONAL CALC	NO_		
TOTAL AMPS A PH 320					(***)				MINIMUN E SIZE IF								ACTUAL CONN LOAD	115 KV		_ AMF
TOTAL AMPS B PH 320									OR BREA				3				DEMAND	115 KV		_ AMP
TOTAL AMPS C PH 320						CALLE	D FOR	N SCHE	DULE.								DIVERSITY	115 KV		_ AMP
ERROR CODE																	TRANSFORMER SIZE	KV	A	
SECTION 1 WITH MAINS																		WIDTH: 32	DEPTH	: 8.25
	LOAD					C.B.	С.В.	REF	скт.	скт.	REF	C.B.	С.В.				LOAD	•		
DESCRIPTION	CONN	TYPE	AMPS	AMPS	AMPS			NOTE	NO.	NO.	NOTE			AMPS A	MPS	AMPS	DESCRIPTION		CONN	TYP
208V DISCONNECT	80	5.0	80			100	3		1	2		3	100	80			208V DISCONNECT		80	5.0
	80	5.0		80					3	4					80				80	5.0
208V DISCONNECT	80 80	5.0 5.0	80		80	100	3		5 7	6 8		3				80	SPACE		80	5.0
	80	5.0	80	80					9	10										
	80	5.0			80				11	12										
208V DISCONNECT	80	5.0	80			100	3		13	14		3					SPACE			
	80	5.0		80					15	16										_
SPACE	80	5.0			80		3		17 19	18 20		3					SPACE			
JFACE									21	22										
									23	24								-		
									25	26										
		1							27	28										\perp
			i						29 31	30 32				+ +						+-
				1	i		 		33	34				+ +						1
							I			 										
									35	36										
									37	38										
									37 39	38 40										
									37	38							SURFEED LUCE	BDEAKED		
									37 39 41	38 40 42							SUBFEED LUGS/E	BREAKER		
									37 39	38 40							SUBFEED LUGS/E			



Matern Professional Engineering, Inc 130 Candace Drive Maitland, FI 32751-3331

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ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096

OCCC PHASE 1
HALL D
CATWALK POWER

Key Plan-West

Revisions

No. Date Description

MPE PROJ#: 2012-188C

Designed By:

Drawn By:
Checked By:

Issue Date: FEBRUARY 28, 2014

Drawing Scale: NTS

CT

Drawing Title:

ELECTRICAL SCHEDULES

BID DOCUMENTS

Drawing No.

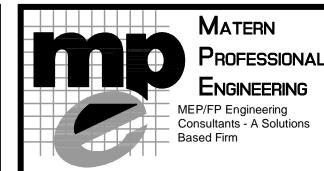
E2.5.01

	AINS				COPYR	RIGHT N	/IE, LLC	06/01/0)3			V	ERSION:	B2	RE	VISED:	10/18/1	2	WIDTH: 44.0	DEPTH:	60.
/OLTS L/N:	277	_																			
OLTS PH.:	480	_					S	WITCH	BOARD:	MSB30 (E	XISTING)							EXISTING	: YES	
PHASE :	3	_						MLO(**										•			_
MOUNTING:	SURFACE	_						мсв		4000									NEMA 3R	: YES	_
TYPE :								SH.TRI	IP									D	RAWOUT SWBD	YES	_
MFR :	SQ D	_						GFP											FRONT ACCESS	:	
																	NOTES	DEFERENCE NO.			
GENERAL NOTES:										AIC RA	TING (**)			1			NOTES	AND REFERENCE NO	IES:		
(1) ALL C.B.'S FEED	ING HVAC EQI	JIPMENT	TO BE	HACR 1	YPE.			SERIE	SRATED		65		KA(*)	1			MFR -	SIZE CB PER MFR. REC	COMMENDATIONS	\$	
(2) ALL C.B.'S FEED								1	RATED			-	KA					W CB IN EXIST SPACE	JOHNILITEATION	J.	
(3) ALL C.B.'S FEED						MFR.		0	KALL			-	101				-	PLACE EXIST CB WITH	NEW		
(4) ALL C.B.'S FEED								(*) NOT	E: MAY R	EQUIRE FL	JLL RATII	NG TO A	HIEVE					HUNT TRIP C.B.			
(5) NO MULTIWIRE I								``										RC FAULT CB			
(6) NOT USED.																					
7) SECTION I TO IN	CLUDE MCB/M	LO AND I	METERS	s										J							
																		OPTIONAL CALC	NO		
TOTAL AMPS A PH	3055	_																ACTUAL CONN LOAD	2540 KVA	3055	AN
TOTAL AMPS B PH	3055	_																DEMAND	2540 KVA	3055	AN
TOTAL AMPS C PH	3055	_																DIVERSITY	2540 KVA	3055	AN
ERROR CODE		_																TRANSFORMER SIZE	KVA		-
		_																			
		_																			
SECTION II																			WIDTH: 44	DEPTH:	60.
	L	OAD					C.B.	C.B.	REF	скт.	скт.	REF	C.B.	C.B.				LOAD			
DESCRIP	PTION	CONN	TYPE	AMPS	AMPS	AMPS	AMPS			NO.	NO.	NOTE			AMPS	AMPS	AMPS	DESCRIPTION	N	CONN	TY
PANEL: DP3H		958	14.0	958			1200	3		1	2								_		
		958	14.0		958					3	4										
		958	14.0			958				5	6										
PANEL: DP3J			14.0	958			1200	3		7	8										
		958												1						_	
		958	14.0		958					9	10			-	 						
		958 958	14.0 14.0	1100	958	958				11	12										
PANEL: DP3K		958 958 1139	14.0 14.0 14.0	1139		958	1200	3		11 13	12 14										
PANEL: DP3K		958 958 1139 1139	14.0 14.0 14.0 14.0	1139	958 1139			3		11 13 15	12 14 16										
PANEL: DP3K		958 958 1139	14.0 14.0 14.0	1139		958	1200	3 		11 13 15 17	12 14 16 18										
PANEL: DP3K SPACE		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 3		11 13 15 17 19	12 14 16 18 20										
PANEL: DP3K SPACE		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 		11 13 15 17 19 21	12 14 16 18 20 22										
PANEL: DP3K SPACE		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 3 		11 13 15 17 19 21 23	12 14 16 18 20 22 24										
PANEL: DP3K SPACE		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 3		11 13 15 17 19 21 23 25	12 14 16 18 20 22 24 26										
PANEL: DP3K SPACE SPACE		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 3 3 		11 13 15 17 19 21 23	12 14 16 18 20 22 24										
PANEL: DP3K SPACE SPACE SPACE		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200 	3 3 3 		11 13 15 17 19 21 23 25 27	12 14 16 18 20 22 24 26 28										
PANEL: DP3K SPACE SPACE SPACE		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200 	3 3 3 		11 13 15 17 19 21 23 25 27	12 14 16 18 20 22 24 26 28 30										
PANEL: DP3K SPACE SPACE SPACE SPACE SPACE		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 3 3 3		11 13 15 17 19 21 23 25 27 29	12 14 16 18 20 22 24 26 28 30										
PANEL: DP3K PANEL		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		11 13 15 17 19 21 23 25 27 29 31	12 14 16 18 20 22 24 26 28 30 32 34										
PANEL: DP3K PANEL		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		11 13 15 17 19 21 23 25 27 29 31 33 35	12 14 16 18 20 22 24 26 28 30 32 34 36 38										
PANEL: DP3K SPACE SPACE SPACE SPACE SPACE		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 3 		11 13 15 17 19 21 23 25 27 29 31 33 35 37	12 14 16 18 20 22 24 26 28 30 32 34 36 38										
PANEL: DP3K PANEL	S/BREAKER	958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 3 		11 13 15 17 19 21 23 25 27 29 31 33 35 37	12 14 16 18 20 22 24 26 28 30 32 34 36 38 40							SUBFEED LUGS	/BREAKER		
PANEL: DP3K SPACE		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42										
PANEL: DP3K SPACE SPACE SPACE SPACE SPACE SPACE		958 958 1139 1139	14.0 14.0 14.0 14.0	1139			1200	3 3 		11 13 15 17 19 21 23 25 27 29 31 33 35 37	12 14 16 18 20 22 24 26 28 30 32 34 36 38 40							SUBFEED LUGS			

FEEDER SC	HEDULE:	occc	Phase I MEP	Upgrades	DATE:	10/11/2013	COPYRIGHT	: ME, LLC 2009	VERSION: A3d	REV	/: Jan 11, 201	12	
FEEDER FEEDING	OCP AMP SIZE	VOLTS	FEEDER AMPACITY	FEEDER VOLTAGE DROP (%)		NEUTRAL WIRE	GROUND WIRE	EXTRA NEUTRAL	FEEDER MATERIAL	PARALLEL RUNS	CONDUIT SIZE (IN)	SHORT CIRCUIT AMPS AT PANEL	
DL3H	700	208	760	0.23%	#500 KCMIL	#500 KCMIL	#2/0		COPPER	2	3.5		
DL3H XFMR PRI	300	480	285	0.06%	#300 KCMIL		#4		COPPER	1	3		
DL3J	700	208	760	0.23%	#500 KCMIL	#500 KCMIL	#2/0		COPPER	2	3.5		
DL3J XFMR PRI	300	480	285	0.06%	#300 KCMIL		#4		COPPER	1	3		
DL3K	700	208	760	0.23%	#500 KCMIL	#500 KCMIL	#2/0		COPPER	2	3.5		
DL3K XFMR PRI	300	480	285	0.06%	#300 KCMIL		#4		COPPER	1	3		
DP3H	1200	480	1240	1.91%	#500 KCMIL	#500 KCMIL	#250 KCMIL		COPPER	4	3.5		
DP3J	1200	480	1240	1.91%	#500 KCMIL	#500 KCMIL	#250 KCMIL		COPPER	4	3.5		
DP3K	1200	480	1240	1.61%	#500 KCMIL	#500 KCMIL	#300 KCMIL		COPPER	5	3.5		
NOTES													

1) CONDUIT SIZE IS BASED ON 2008 N.E.C. FOR EMT, IMC, RMC, FLEXIBLE METAL, AND SCHED 40 PVC. IF ANY OTHER TYPE OF CONDUIT/TUBING IS USED, THE CONTRACTOR SHALL RESIZE CONDUIT AND SIZE AS REQUIRED TO COMPLY WITH THE N.E.C.. 2) USE CABLE REDUCERS AT TERMINATIONS AS REQUIRED TO COORDINATE OVERSIZED PHASE OR NEUTRAL CONDUCTORS WITH TERMINATION LUG SIZE OR PROVIDE TERMINATION/LUGS SIZED FOR FEEDERS. 3) CONTRACTOR IS TO MEGGER TEST ALL FEEDERS PER SPECIFICATIONS.

MECHANIC	AL/KITCHEN	EQUIF	PMENT F	EEDER	SCHEDUL	E FOR (9):	OCCC We	est Buildir	ng Phase I	I MEP Upg	rade (201	2-188)							COPYRIG	HT ME, LLC	Version : W6	REVISED	: March 1, 201	2				DATE: Se	ptember 17, 20	
EQUIPMENT DESCRIPTION	VOLTS P	⊔ NE	UTRAL	LA	LARGEST MOTOR COMPRESS		ESSOR	ADD'L MOTORS		HEAT STRIPS	RIPS	MISC 1	TOTAL MCA	MCA N	MOCP PANEL	PANEL	DISCONNECT SWITCH		STARTER WI	WIRE PER		GROUND	WIRE	# OF	CONDUIT	% VD	NOTES			
	VOL15 P		Y/N	HP	FLA	LRA	FLA(11)	LRA	FLA	LRA	KW /	MPS	AMPS	FLA	(10)	(10)	CB (5)	CODE	SIZE (1) FUSE (2) TYPE (3) CODE	TYPE	PHASE (6)	WIRE (7)	WIRE	MATERIAL	RUNS	SIZE	% VD	(SEE BELOW)	
80V DISCONNECT	480	3	N										320	320			400					#400 KCMIL		#2/0	COPPER	2	3.00	1.92		
	1.00		.,										020				100								0011211	1 -		1102		
		_															100					#500 KON			000000					
08V DISCONNECT	208	3	N										80	80		+	100					#500 KCMIL		#1/0	COPPER	1 1	3.00	2.00		
OTES()		'	'			•						'	<u>'</u>		'	'						•		NOTES: (A)=CONNECT	VIA LINE VOL	AGE T'STA	AT BY DIV. 15/	23 CONTRA	CTOR.	
) PROVIDE DISC SW AT ALL PIECES C	F EQUIPMENT	AS REC	QUIRED BY	THE N.E	E.C. AND AF	IJ UNLESS I	PROVIDED B	BY OTHERS	(INCLUDIN	NG AT MOTO	ORS AND A	STARTE	ERS.			N	MCP =	MOTOR (RCUIT PROTECTOR	W/COMBINATION STA	RTER			(B)=CONNECT	VIA CONTROL	DEVICES E	BY DIV. 15/23	CONTRACTO	DR.	
2) FUSES SHOWN FOR REFERENCE OF	LY, PROVIDE I	USES /	AS RECOM	MENDE	D BY EQUIP	MENT MAN	JFACTURER.									N	MMS =	MANUAL	MOTOR STARTER SW	ITCH WITH OVERLOA	DS AND PILOT LIGH	IT		(C)=CONNECT	VIA VFD/AFD \	VITH INTEG	RAL DISC. S	٧.		
) PROVIDE NEMA OUTDOOR RATED E	PROVIDE NEMA OUTDOOR RATED ENCLOSURES FOR ALL DISC SWS MOUNTED OUTDOORS.								=	NEMA I ENCLOSURE							(D)=CONNECT VIA COMBINATION DISC/STARTER BY DIV. 15/23 CONTRACTOR.													
) COORDINATE STARTER TYPE WITH	MECH EQUIP IN	ISTALL	ER .													3	R =	NEMA 3R	ENCLOSURE					(E)=CONNECT	VIA DISC SWIT	CH AT EQU	JIP. BY DIV. 1	5/23 CONTR	ACTOR.	
5) CONTRACTOR TO VERIFY THAT C.B Y N.E.C. CB TO BE HACR RATED.	FOR COMPRE	SSORS	IS SUFFIC	EIENT TO	ALLOW ST	ARTING OF	UNIT, IF REC	QUIRED FOI	R STARTING	G C.B. TO E	BE INCREAS	ED TO A	MAX ALL	OWED		4	ISS =	NEMA 4 \	VATER TIGHT STAINL	ESS STEEL ENCLOSU	RE			(F)=PROVIDE	FULL SIZE NEU	TRAL.				
) #12 FEEDERS SHOWN AND OVER 50	FT. LONG TO B	E #10 F	OR 120V C	CIRCUITS	6. #12 FEED	ERS SHOWN	AND OVER	100 FT. LO	NG TO BE #	#10 FOR 27	7 V CIRCUI	S.				4	· =	NEMA 4 WATER TIGHT NON-CORROSIVE ENCLOSURE							(G)=MMS WITHOUT OVERLOADS.					
7) NEUTRAL CONDUCTOR TO BE SAME	SIZE AS PHAS	SE CON	DUCTORS.													\	/FD/AFD =	= VARIABLE (ADJUSTABLE-AFD) FREQ DRIVE UNIT						(H)=CONNECT VIA STARTER IN MCC (BY DIV 16/26).						
MOTOR CB IS SIZED BASED ON NEMA CODE 'F' OR HIGHER. CHANGE CB SIZE IF REQUIRED DUE TO NEMA CODE OF MOTOR PER N.E.C. NF =								IF =	NON-FUSED. WHERE ACCEPTABLE TO AHJ, CONTRACTOR MAY USE PROPERLY RATED MOTOR SWITCH FOR DISCONNECT SWITCH						(I)=2 SPEED,1 WINDING MOTOR/STARTER.															
P) ALL FEEDERS 100 AMP AND LESS A ERMINATIONS. PROVIDE AND INSTAL ERMINATIONS TO BE AS REQUIRED T	PROPER TER	MINATIO	ONS ON AI	LL EQUI	PMENT PRO	VIDED BY A										A	AHJ =	AUTHOR	TY HAVING JURISDIC	TION.				(J)=COORDINA	ATE WITH DIV.1	5 TO BALA	NCE LOAD O	1 PHASE F	TB MOTORS.	
0) BASED ON MANUFACTURER'S REC	OMMENDATIO	N.														F	NVR =	FULL VO	TAGE NON-REVERSI	NG				(K)=PROVIDE	NEW STARTER	IN MCC TO	MATCH EXIS	TING. SEE N	ICC SCHED.	
11) OR BRANCH CIRCUIT SELECTION (URRENT WHE	N AVAIL	ABLE.														FNVR =	DUAL VO	LTAGE NON-REVERS	ING				(L)=WHERE M	OTOR IS FED F	ROM MCC,	PANEL CB NO	T REQUIRE	D	
																	FVC =	FULL VO	TAGE CONTACTOR					(M)=CONNECT (N)=CONNECT	EXIST DISC SI					



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ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096 OCCC PHASE 1 HALL D CATWALK POWER

	No.	Date	Description

MPE PROJ#: 2012-188C

Designed By:

Checked By: Issue Date: FEBRUARY 28, 2014

Drawing Scale:

Drawing Title:
ELECTRICAL

SCHEDULES

BID DOCUMENTS

E2.5.02

ELECTRICAL ROOM CATWALK DL3H DP3J DP3K DL3J TYP4 CATWALK LEVEL MEZZANINE LEVEL Revisions MSB 30 No. Date Description Ф LEVEL 1 WEST BLDG, PH-1 EXHIBIT HALL AREA WESTWOOD ENTRANCE HEX NOTES 1) EXISTING 3000A SWITCHGEAR POWER RISER DIAGRAM 2 REFER TO PANEL SCHEDULES 3 REFER TO FEEDER SCHEDULES NOT TO SCALE 4 NEW 480V, 3P, 400A HUBBELL DISCONNECT WITH PIN AND SLEEVE. FOUTE CONDUIT AS REQUIRED. PROVIDE PULL BOXES AS REQUIRED. CONTRACTOR TO FIELD LOCATE ROUTING TO FACILITATE INSTALLATION. 6 NEW 208V, 3P, 100A DISCONNECT WITH PIN AND SLEEVE The step down transformer 480V, 30 primary, 208/120V 30 4W secondary. See respective panel schedule for size. Provide with 4" housekeeping pad. 8 NEW GROUNDING ELECTRODE CONDUCTOR. SIZE PER NEC. CONNECT TO NEAREST GROUND. MPE PROJ#: 2012-188C Designed By: Drawn By: Checked By: CT Issue Date: FEBRUARY 28, 2014 Drawing Scale: Drawing Title:
POWER RISER DIAGRAM BID DOCUMENTS E5.2.01

GENERAL NOTES

1) REFER TO GENERAL NOTES FOR THIS DISCIPLINE. 2) REFER TO SPECIFICATIONS.

3) NO MULTI-WIRE BRANCH CIRCUITS ARE TO BE USED. EACH CIRCUIT IS TO HAVE SEPARATE INDIVIDUAL NEUTRAL.

4) REWORK/RELOCATE EXISTING ELECTRICAL AS REQUIRED TO FACILITATE REMODELING.

ORLANDO I Fort Myers I Jacksonville I Tampa 5) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING DEVICES REMAINING. Matern Professional Engineering, Inc 6) ALL DISCONNECTING MEANS (SWITCHES) FEEDING FAN TERMINAL BOXES SHALL BE MOTOR RATED SWITCHES. 130 Candace Drive Maitland, FI 32751-3331

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