ORANGE COUNTY CONVENTION CENTER

ORANGE COUNTY MAYOR

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DISTRICT 2 COMMISSIONER

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TERESA JACOBS



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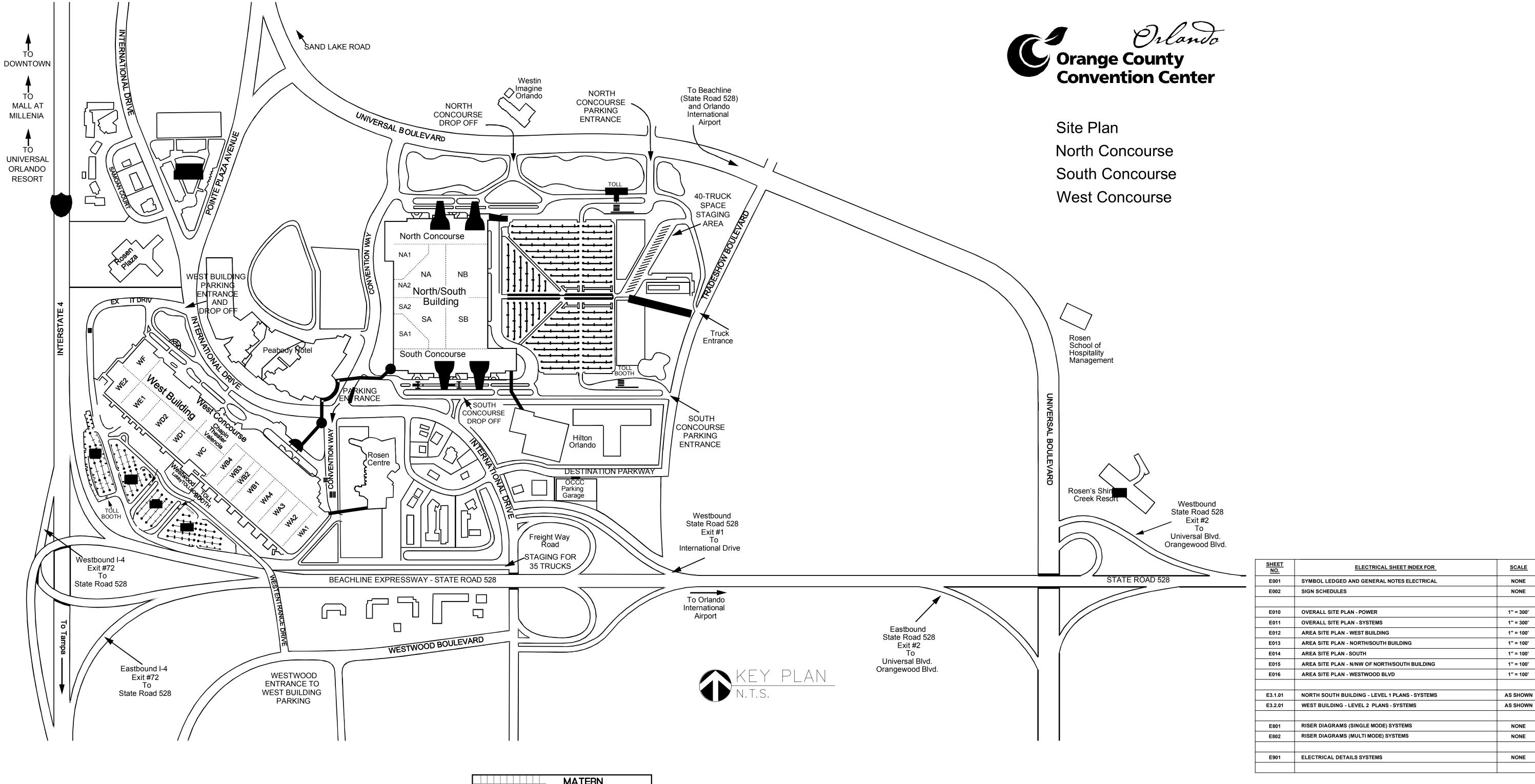
DISTRICT 5 COMMISSIONER

TED B. EDWARDS

DISTRICT 6 COMMISSIONER

VICTORIA P. SIPLIN

DYNAMIC MESSAGE SIGNAGE UPGRADE





Bid Documents FEBRUARY 03, 2016

	COMMERCIAL /GENERAL - PREMISE DISTRIBUTION	SYSTEM (PDS) SYMBOL LE	GEND	
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	MOUNTING	CABLING
IDF(MDF)	INTERMEDIATE DISTRIBUTION FRAME (MAIN DISTRIBUTION FRAME) CABINET		FREESTANDING	
IDF(MDF)	INTERMEDIATE DISTRIBUTION FRAME (MAIN DISTRIBUTION FRAME) RACK		FREESTANDING	
PDS	PREMISES DISTRIBUTION SYSTEM RACEWAY WITH CABLE (UNLESS SPECIFICALLY OTHERWISE NOTED). CONCEALED.	CONCEALED	CONCEALED	
+	RACEWAY INTERCEPTION POINT (TYPICAL)	CONCEALED	CONCEALED	

PDS SYSTEM GENERAL NOTES:

- 1) REFER TO SPECIFICATIONS.
- 2) REFER TO SPECIFICATIONS FOR BASIS OF DESIGN.

APPROVED MILLWORK SHOP DRAWINGS.

12) MINIMUM RACEWAY/CONDUIT SIZE TO BE 1".

- 3) REFER TO DETAILS.
- 4) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL PULL STRINGS IN ALL EMPTY RACEWAYS/CONDUITS.
- 5) LOCATION OF ALL DEVICES ON PLANS ARE APPROXIMATE ONLY. VERIFY EXACT LOCATIONS, HEIGHTS, ETC. WITH
- OWNER AND/OR ARCHITECT PRIOR TO ROUGH-IN. 6) COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND
- 7) PROVIDE FIRE STOPPING ON ALL CONDUITS AND SLEEVES PENETRATING A RATED WALL OR FLOOR.
- 8) ALL CABLES AND RACEWAYS TO BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE OR APPROVED BY
- ENGINEER. SEE SPECIFICATIONS AND GENERAL NOTES FOR ADDITIONAL CLARIFICATIONS.
- 9) ALL RACEWAY TERMINATIONS SHALL HAVE BUSHINGS AND BE GROUNDED WHERE RACEWAY IS METAL.
- 10) PROVIDE SYSTEM COMPLETE WITH ALL DEVICES, CABLES, PATHWAYS (RACEWAYS, CONDUITS, ETC). 11) ALL WIRE/CABLE SHALL BE IN A COMPLETE RACEWAY/CONDUIT SYSTEM. INSTALL/SIZE RACEWAY SYSTEM AS
- REQUIRED TO COMPLY WITH SPECIFICATIONS, THE N.E.C. AND AS RECOMMENDED BY MANUFACTURER.
- 13) ALL COMMUNICATION WALL OUTLETS AND FLOOR OUTLETS SHALL HAVE A 1" MINIMUM CONDUIT STUBBED UP AND

STANDARDS, UNLESS OTHERWISE CALLED FOR ON DRAWINGS OR IN SPECIFICATIONS. WHERE CONFLICT EXISTS,

- OUT INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE ON DRAWINGS. 14) CIRCUIT ALL DEVICES TO LOCAL SYSTEMS TERMINAL BOARD (STB). ALL TERMINATIONS AT STB SHALL BE AT
- DESIGNATED SECTION OF STB. COORDINATE WITH ALL SYSTEMS BEING TERMINATED ON STB. 15) PROVIDE AND INSTALL CABLE/WIRING AS RECOMMENDED BY MANUFACTURER AND APPLICABLE CODES AND
- THE LARGEST SIZE CALLED FOR SHALL BE USED. 16) SIZE PATHWAYS AS RECOMMENDED BY MANUFACTURER AND APPLICABLE CODES AND STANDARDS UNLESS OTHERWISE CALLED FOR ON DRAWINGS OR IN SPECIFICATIONS. WHERE CONFLICT EXISTS, THE LARGEST SIZE
- CALLED FOR SHALL BE USED. 17) ALL COMMUNICATIONS WALL OUTLET BOXES SHALL BE 4-11/16" x 4-11/16" x 2-3/4" DEEP FLUSH BOXES
- WITH TRIM RING AS REQUIRED TO ACCOMMODATE WALL CONSTRUCTION AND OUTLET FACEPLATE. 18) SEE OUTLET DETAILS.
- 19) PROVIDE AND INSTALL (1) 4-PAIR CATEGORY 6 CABLE FOR EACH ACTIVE PORT IN EACH COMMUNICATION OUTLET CIRCUIT TO RESPECTIVE PATCH PANEL IN MDF/IDF AT LOCAL STB UNLESS NOTED OTHERWISE.
- 20) ALL ITEMS NOTED ON THE LEGENDS DO NOT NECESSARILY APPEAR ON PLANS.
- 21) ALL FIBER OPTIC CABLE BEING RETERMINATED MUST BE TESTED PER SPECIFICATIONS. TEST REPORT WITH UCI# SHALL BE PROVIDED WITH AS-BUILTS SHOWING ALL FIBER OPTIC CABLE FOR REVIEW BY ENGINEER PRIOR TO APPROVAL OF CLOSEOUT.
- 22) CONTRACTOR SHALL CONTRACT DIRECTLY OR HAVE ON STAFF (AND INCLUDE IN BID) A AUTHORIZED DAKTRONIX TECHNICIAN FOR ALL MODIFICATIONS AD ADDITIONS TO THE EXISTING SIGNAGE HEAD END SOFTWARE AND SIGN CONTROLLER CONFIGURATION.

		SYMBOL LEGEND			
SYMBOL	DESCRIPTION	DESIGN SELECTION	APPROVED SUBSTITUTION	APPROVED SUBSTITUTION	REMARKS
\$wp	CAST IRON ZINC PLATED SURFACE MTD. OUTLET BOX AND 20 AMP SINGLE POLE SWITCH, WITH COPPER FREE CAST ALUMINUM WEATHERPROOF COVER	DEVICE: P&S #PS20AC1 BOX AND PLATE: APPLETON #FS/FD/FSK-WT2	DEVICE: HUBBELL #HBL1221 BOX AND PLATE: APPLETON #FS/FD/FSK-WT2	DEVICE: LEVITON #1221-2	a, d, e, f,
WPG ⊕	FLUSH WALL OUTLET BOX AND 20 AMP WEATHER RESISTANT GFCI DUPLEX RECEPTACLE WITH CAST ALUMINUM WEATHER PROOF IN USE COVER	P&S #2095TRWR WITH THOMAS & BETTS #CKMUV OR INTERMATIC #WP1010MC	HUBBELL #GFR5362S WITH THOMAS & BETTS #CKMUV OR HUBBELL #WP26M COVER	LEVITON #W7899-TR WITH THOMAS & BETTS #CKMUV OR INTERMATIC #WP1010MC	a, d
WPG	CAST IRON PLATED SURFACE MTD. OUTLET BOX AND 20 AMP WEATHER RESISTANT GFCI DUPLEX RECEPTACLE WITH CAST ALUMINUM WEATHERPROOF IN USE COVER	P&S #2095TRWR WITH APPLETON #FS-ID AND THOMAS & BETTS #CKMUV OR INTERMATIC #WP1010MC	HUBBELL #GFR5362S APPLETON #FS-ID AND HUBBELL #WP26M COVER	LEVITTON #W7899-TR APPLETON #FS-ID AND THOMAS & BETTS #CKMUV OR INTERMATIC #WP1010MC	a, c, d, e f, g
□ _{FG}	FLUSH GRADE PULLBOX OR MANHOLE AS NOTED.	BROOKS	A.C. MILLER	HUGHES	d, j
	120/208V BRANCH CIRCUIT PANELBOARD SURFACE MOUNTED	SQUARE "D"	G.E.	SIEMENS	i
_	120/208V BRANCH CIRCUIT PANELBOARD FLUSH MOUNTED	SQUARE "D"	G.E.	SIEMENS	i
2222	277/480V BRANCH CIRCUIT PANELBOARD SURFACE MOUNTED	SQUARE "D"	G.E.	SIEMENS	i
<i>7777</i> 1	277/480V BRANCH CIRCUIT PANELBOARD FLUSH MOUNTED	SQUARE "D"	G.E.	SIEMENS	i
酉	TRANSFORMER	SQUARE "D"	G.E.	SIEMENS	i
	SYSTEMS TERMINAL BOARD AS NOTED	SEE SYSTEMS LEGEND/SPECS			
	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)				
<u>/</u> -\	BRANCH CIRCUIT CONDUIT CONCEALED BELOW SLAB OR UNDERGROUND				
	HOME RUN WIRING. ONE CIRCUIT PER ARROW HEAD				
\dashv	CONDUIT CAPPED OFF				
<u></u>	CONDUIT CONTINUED				
0	CONDUIT RUN UP				
•	CONDUIT RUN DOWN				
—G—	GROUND WIRE, CONCEALED				
	GROUND OR GROUND ROD AS NOTED				

- 1) ALL DEVICES TO BE GRAY 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.

REMARKS:

a) U.L. LISTED FOR WET LOCATION IN CLOSED POSITION.

- 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
- c) U.L. LISTED FOR WET LOCATION IN OPEN POSITION WITH ATTACHMENT PLUG INSERTED.
- d) JUNCTION/OUTLET BOX SHALL BE SIZED AS REQUIRED FOR CONDUCTOR/DEVICE FILL PER N.E.C.
- e) THREADED CONDUIT HUBS SHALL BE SIZED AND CONFIGURED AS REQUIRED FOR APPLICATION.
- f) IF WITHIN 30 MILES OF THE COAST LINE, COPPER FREE CAST ALUMINUM OUTLET BOXES SHALL BE USED FOR EXTERIOR APPLICATIONS.
- g) PROVIDE KINDORF MTG. RACK FOR FREE STANDING APPLICATIONS. KINDORF SHALL BE PVC COATED FOR EXTERIOR APPLICATIONS. ALL CUT ENDS ARE TO BE SEALED. h) WHEN SURFACE JUNCTION BOX SYMBOL IS COMBINED WITH DEVICE SYMBOL, PROVIDE APPROPRIATE SURFACE PLATE FOR OUTLET APPLICATION.
- 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.
- j) OUTLET BOX SHALL BE SIZED PER SYSTEM INSTALLER REQUIREMENTS.
- k) COORDINATE THE TELEPHONE/DATA/SYSTEMS DEVICE, WIRE, CABLE, ETC WITH THE TELE/DATA/SYSTEMS SPECIFICATIONS, DRAWINGS, AND/OR SYMBOL LEGENDS. I) [PROVIDE 1"C. TO CEILING SPACE] [PROVIDE 1"C. TO [TTB] [STB] [CTB] [PROVIDE CONDUIT AS CALLED FOR ON SYSTEMS PLANS/SYMBOL LEGENDS]

GENERAL NOTES

- 1. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 0-100 FEET FROM THE PANEL, ARE TO HAVE #12 MINIMUM BRANCH CIRCUIT WIRING THROUGHOUT CIRCUIT. (CONDUIT SIZE PER SPECIFICATION AND NEC).
- 2. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 101-175 FEET FROM THE PANEL, ARE TO HAVE #10 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (3/4"C.) FROM PANEL CIRCUIT BREAKER TO FIRST DEVICE AND #12 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT. (CONDUIT SIZE PER SPECIFICATION AND NEC). FIRST 75 FEET OF COMBINED HOMERUN AND BRANCH CIRCUIT TO BE MINIMUM #10 WIRE. (3/4"C).
- 3. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 176-225 FEET FROM THE PANEL, ARE TO HAVE #10 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (3/4"C.) FROM PANEL CIRCUIT BREAKER TO FIRST DEVICE AND #10 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT (3/4"C.)
- 4. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 226 FEET OR MORE FROM THE PANEL, ARE TO HAVE #8 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (1"C.) FROM PANEL CIRCUIT BREAKER TO FIRST DEVICE AND #10 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT (3/4"C.). FIRST 125 FEET OF COMBINED HOMERUN AND BRANCH CIRCUIT TO BE MINIMUM #8 WIRE
- 5. NO MULTI-WIRE BRANCH CIRCUITS ARE TO BE USED. EACH CIRCUIT IS TO HAVE SEPARATE INDIVIDUAL NEUTRAL.
- 6. 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. A PHENOLIC OR BRASS NAMEPLATE SHALL BE ATTACHED TO EACH END INDICATING THE LOCATION OF BOTH ENDS OF CONDUIT AS FOLLOWS: THIS END = "LOCATION," OTHER END = "LOCATIONS."
- 10. WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT. THE ROUTINGS SHOWN ARE PROPOSED CONDUIT ROUTINGS. CONTRACTOR TO COORDINATE ALL ROUTING WITH OTHER TRADES PRIOR TO BID. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND ROUTING OF CONDUIT PRIOR TO BID. CONTRACTOR IS RESPONSIBLE FOR RELOCATING CONDUIT FROM THE PROPOSED ROUTING SHOWN TO THE ROUTING REQUIRED TO FACILITATE INSTALLATION PER SPECIFICATIONS AND APPLICABLE CODES, COMPLETE WITH ALL COORDINATION AND EXISTING CONDITIONS TAKEN INTO ACCOUNT. CONTRACTOR IS RESPONSIBLE FOR ALL CEILING AND WALL REPAIR/REPLACEMENT AFTER ROUTING OF CONDUIT.
- 11. ALL CONDUIT TERMINATIONS AT TERMINAL BOARDS ARE TO HAVE BUSHED CONDUIT ENDS.
- 12. 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.
- 13. NO SPLICES SHALL BE MADE IN COMMUNICATIONS OUTLET BOXES OR PULL BOXES (I.E., FIRE ALARM, COMPUTER, TELEPHONE, ETC.) UNLESS SPECIFIC WRITTEN APPROVAL HAS BEEN GIVEN BY ENGINEER. PULL CABLES THROUGH TO EQUIPMENT/TERMINAL
- 14. NO SPLICES SHALL BE MADE IN UNDERGROUND (OR FLUSH) IN-GRADE PULL BOXES UNLESS ENGINEER HAS GIVEN SPECIFIC
- 15. 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.
- 16. EXISTING CONDITIONS AND UTILITIES 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 ARCHITECT/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.
- 17. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN ON PLANS OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE COMPLETION OF THIS WORK. THE CONTRACTOR SHALL LOCATE ALL UTILITIES (BOTH KNOWN AND UNKNOWN) IN AREA OF WORK PRIOR TO EXCAVATION WITH THE USE OF ELECTRONIC LOCATOR/TRACER DEVICES AND EQUIPMENT SUITABLE FOR SUCH USE. REFLECT LOCATED UTILITIES ON AS-BUILT DOCUMENTS.
- 18. REMOVE EXISTING POWER, LIGHTING, SYSTEMS, MATERIAL AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT.
- 19. REINSTALL ANY SUCH POWER, LIGHTING, SYSTEMS, MATERIALS AND EQUIPMENT WHICH ARE REQUIRED TO REMAIN ACTIVE FOR THE
- FACILITY TO BE FULLY FUNCTIONAL. 20. 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. 21. 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.
- 22. 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.
- 23. 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.
- 24. 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.
- 25. 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 REQUIREMENT.
- 26. PAINT ALL EXPOSED CONDUIT, BOXES, ETC. TO MATCH WALL SURFACE.
- 27. DASHED ITEMS INDICATE EXISTING TO REMAIN.
- 28. "R" ADJACENT TO DEVICE INDICATES EXISTING TO BE REMOVED COMPLETE.
- 29. 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.
- 30. WORK TO BE PERFORMED IN STRICT COMPLIANCE WITH ESTABLISHED WORK SCHEDULE BEING SET FORTH BY OWNER/TENANT. COORDINATE ALL WORK. THE CONTRACTOR SHALL FURNISH ADEQUATE FORCES, CONSTRUCTION PLANT, AND EQUIPMENT, AND SHALL WORK SUCH HOURS, INCLUDING NIGHT SHIFTS, OVERTIME OPERATIONS, SUNDAY, AND HOLIDAYS IN ACCORDANCE WITH THE OWNERS OPERATIONAL SCHEDULE. IF THE CONTRACTOR FALLS BEHIND PROGRESS REQUIRED IN THE OPERATIONAL SCHEDULE, THE CONTRACTOR SHALL TAKE SUCH STEPS AS MAY BE NECESSARY TO IMPROVE HIS PROGRESS, AND THE OWNER MAY REQUIRE HIM TO INCREASE THE NUMBER OF SHIFTS AND/OR OVERTIME OPERATIONS, DAY OF WORK AND/OR THE AMOUNT OF CONSTRUCTION PLANT, AT NO ADDITIONAL COST TO THE OWNER UNDER THIS CONTRACT.
- 31. 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 EXISTING RACEWAYS ARE REUSED. THE CONTRACTOR SHALL REMOVE EXISTING WIRING, PULL IN NEW WIRING, AND CONNECT TO NEW DEVICES AS SHOWN ON THE DRAWINGS AND CALLED FOR IN THE SPECIFICATIONS. REUSE OF EXISTING DEVICES AND WIRING SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED OTHERWISE. ALL EXISTING CONDUITS THAT ARE REUSED SHALL BE PERMANENTLY IDENTIFIED IN ACCORDANCE WITH THE SPECIFICATIONS.

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.
- R3 REMOVE THE DEVICE ONLY. REFER TO RENOVATION PLAN FOR ADDITIONAL ELECTRICAL.



ORLANDO I Fort Myers I Jacksonville I Tampa 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 ANSMITTED TO ANY OTHER PARTY EXCEPT AS AGREED TO

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ORANGE COUNTY CONVENTION

CENTER -

Key Plan

Revisions

No. Date Description

MPE PROJ#: 2015-078

Designed By: DAM/DS Drawn By: CET Checked By: 02-03-2016 Issue Date:

Drawing Scale: Drawing Title:

SYMBOL LEGEND **GENERAL NOTES**

ELECTRICAL

BID DOCUMENTS

Drawing No.

I:\2015_jobs\2015-078_OCCC DMS Signage Upgrade\CAD\2015-078_E

MATERN PROFESSIONAL ENGINEERING PLOT DATE: 2/3/2016 4:59:

							E	KISTI	NG	SIG	I NE	DATA					
		NEMA BOX SIGN								SIC	3N_						
			MM FIBER	NEMA BOX FOR EQUIP	E O DATCH DANE!	SERIAL CONVERTER	LAN CONVERTER	LAN SWITCH CAT6 SERVICE PORT	L SERVIC	SURGE OUTLET	GROUNDING		SURGE	GROUNDING	NEW CONTROLLER	SERIAL CONVERTER	
GN#	OLD Sign #Description																ADDITIONAL NOTES:
1	509 Informational Sign		Х	3R	X	X					Х				Х		GROUND WIRE TO CROUND ROD BROKEN. LOCK IS BROKEN
2	508 Informational Sign		Х	3R	X	X					Х				х		NEMA BOX HAS BEEN HIT BY TRAFFIC
3	507 Informational Sign		Х	3R	X	X					Х				Х		
4	506 Informational Sign		Х	3R	Х	X					Х				Х		PADLOCK IS BROKEN
5	505 Informational Sign		Х	3R	Х	X					Х				Х		NEMA BOX HAS BEEN MOVED CAUSING CONDUITS TO BREA
6	503 Informational Sign		Х	3R	Х		\neg			\rightarrow	х				х		LOCK MECHANISM ON PADLOCK NOT WORKING
7	504 Informational Sign		Х	3R	Х					-	Х			Х	х		
8	502 Informational Sign		Х	3R	Х	X					х				Х		
9	1101 Informational Sign			3R		Х			X		Х				Х	(X	SIGN POST HIT BY TRAFFIC
10	511 Informational Sign		Х	3R	Х	X					х				Х		
11	512 Informational Sign		Х	3R	Х	X					х				Х		
12	Informational Sign		х	3R	Х					\rightarrow	Х				х		
13	514 Informational Sign		Х	3R	Х					-	Х				х		
14	510 Informational Sign		Х	3R		X					х				х		
17	501 Informational Sign		Х	3R	Х						х		X	Х			SIGN IS NOT FUNCTIONAL
18/19	601 Freight Sign)		4SS	Х		х	ХХ		X				Х	х		NO PADLOCK ON NEMA BOX
20	602 Parking Sign)		4SS	Х		х	х	T	X	х			Х	х		
21/22	18/603 Freight Sign)	_	4SS	Х		х	ХХ	+-	х				Х	х		
23	19/604 Freight Sign)		4SS			х	Х	_	\rightarrow	х			х	х		
25	605 Parking Sign)		488	X		Х	X		X				Х			
26	21/606 Freight Sign)		488	X		X	X	-	X			\top	X		+	
27	22/607 Freight Sign)		488	X		X	X	_	X				X			
28	24/608 Freight Sign)		488	X		х	X		X				Х			
29	23/609 Freight Sign)	_	488	X		Х	X		X				Х			
30	610 Freight Sign)		488	X		х	Х	_	X				х			
31/32	701 Parking Sign)	_	488	X		Х	X X	_	X				Х			
33/34	702 Parking Sign)	_	488	X		_			X				X			
35/36	703 Parking Sign)		488				X X		X				X			
37/38	Monument Sign)		1	X		X	X	+	+ - +				+	X		
39/40	Monument Sign)	_		X		X		+	+ +	\dashv			1	X		
41/42	Monument Sign)			X		X		+	+	\dashv			+	X		
43/44	Monument Sign)	_		X		X		+	+ +	\dashv		+	+ +	X		
.5,44		 	-		 	++	~		+	+	\dashv		+	+		+	
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											R	ENO S	IGN SCH	IEDULE	=			
			Α	В	С	D	E	F	G		Н	ı	J	K				
			NEW NEMA BOX FOR EQUIPMENT. REFER TO DETAIL FOR ALL REQUIRED COMPONENTS	RETERMINATE EXISTING FIBER AT PATCH PANEL IN REMA BOX USING FUSION SPLICE PIGTAIL	INSTALL NEW SERIAL CONVERTER IN NEMA BOX WITH CAT6 CABLE TO CONTROLLER SERIAL PORT	INSTALL NEW LAN SWITCH IN NEMA BOX WITH POWER SUPPLY AND SFP FIBER MODULE	EXTENDCAT6 LAN SERVICE PORT FROM SIGN CONTROLLER TO NEMA BOX	REPLACE EXISTING RECEPTACLE IN NEMA BOX WITH SURGE RECEPTACLE	AIR / RECONNECT EXISTING GROUND SYSTEM		PROVIDE POWER LINE SURGE DEVICE AT SIGN POWER 3	PROVIDE NEW PADLOCK (OWNER PROVIDED)	PROVIDE NEW STENCILED SIGN NUMBER ON SIGN AND EXTERIOR OF NEMA BOX	T FIBER OPTIC PERFORMANCE				
			NEV	RET	INS ⁻	INS SUP	EXT	REP	REP		PRC	PRC	PRC	TES				
SIGN#	OLD Sign#	Description																ADDITIONAL COMMENTS
1		Informational Sign		X			X	X	X		X		X	X		1		
2		Informational Sign		X			X	X	Х		X		X	X				
3		Informational Sign	+	X			X	X			X		X	X		-		
4		Informational Sign Informational Sign	+	X			X	X	V		X	Х	X	X				
5		Informational Sign		X			X	X	Х		X		X	X				
7		Informational Sign	+	X			X	X			X	Х	X	X				
γ		Informational Sign		X			X	X			X		X	X				
٥		Informational Sign		X	Х		X	X			X		X	X				
10	511	Informational Sign		X	^		X	X			X		X	X				
11		Informational Sign		X			X	X			X		X	X				
12	012	Informational Sign		X			X	X			X		X	X				
13	514	Informational Sign		X			X	X			X		X	X				
14		Informational Sign	†	X			X	X			X		X	X				
17		Informational Sign	†	X			X	X			X		X	X				
18/19		Freight Sign	1			Х	<u> </u>	X			X	Х	X	X				
20		Parking Sign	1			X		X			X		Х	Х				
21/22		Freight Sign				Х		Х			Х		Х	Х				
23	19/604	Freight Sign				Х		Х			Х		Х	Х				
25	605	Parking Sign				Х		Х			Х		Х	Х				
26		Freight Sign				Х		Х			Х		Х	Х				
27		Freight Sign				Х		Х			Х		Х	Х				
28		Freight Sign	1			X		Х			X		Х	Х				
29		Freight Sign	1			Х		Х			Х		Х	Х				
30		Freight Sign	1			Х		Х			X		X	X				
31/32		Parking Sign	1			X		X			X		X	X				
33/34		Parking Sign	1			X		X			X		X	X				
35/36	703	Parking Sign	1			X		Х	.,		X	.,	X	X		-		
37/38		Monument Sign	X	X		X	-		X		X	X	X	X		-		
39/40		Monument Sign Monument Sign	X	X		X	-		X		X	X	X	X				
41/42 43/44		Monument Sign	X	X		X	-		X		X	X	X	X				
43/44		monament orgin	 ^															
			1				1	1	l	1	1	I	ı		1	1	1	1

	SIGNAGE RS-232 S	SERIAL CABLE WIRING	
	FIBER CONVERTER SIDE		SIGN CONTROLLER SIDE
RJ-45 PIN	WIRE COLOR CODE (586B)	RJ-45 PIN	WIRE COLOR CODE
1	WHITE / ORANGE	1	WHITE / ORANGE
2	ORANGE	2	BLUE
3	WHITE / GREEN	3	NOT USED
4	BLUE	4	WHITE / GREEN
5	WHITE / BLUE	5	WHITE / BROWN
6	GREEN	6	ORANGE
7	WHITE / BROWN	7	BROWN
8	BROWN	8	NOT USED

GENERAL NOTES

1. PROVIDE DB-25 TO RJ-45 ADAPTER

2. SET DCE/DTE SWITCH TO CORRECT SETTING.

3. CONNECT TO RJ-45 RS-232 PORT ON SIGN CONTROLLER.

4. CONTRACTOR TO VERIFY PINOUT WITH CONVERTER MANUFACTURER.

PROFESSIONAL
ENGINEERING
MEP/FP Engineering
Consultants - A Solutions
Based Firm

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

ORANGE COUNTY
CONVENTION
CENTER -

DYNAMIC MESSAGE SIGNAGE UPGRADE

Key Plan

Revisions

No. Date Description

MPE PROJ#: 2015-078

Designed By: JMS

Drawn By: DAM/DS

Checked By: CET

Issue Date: 02-03-2016

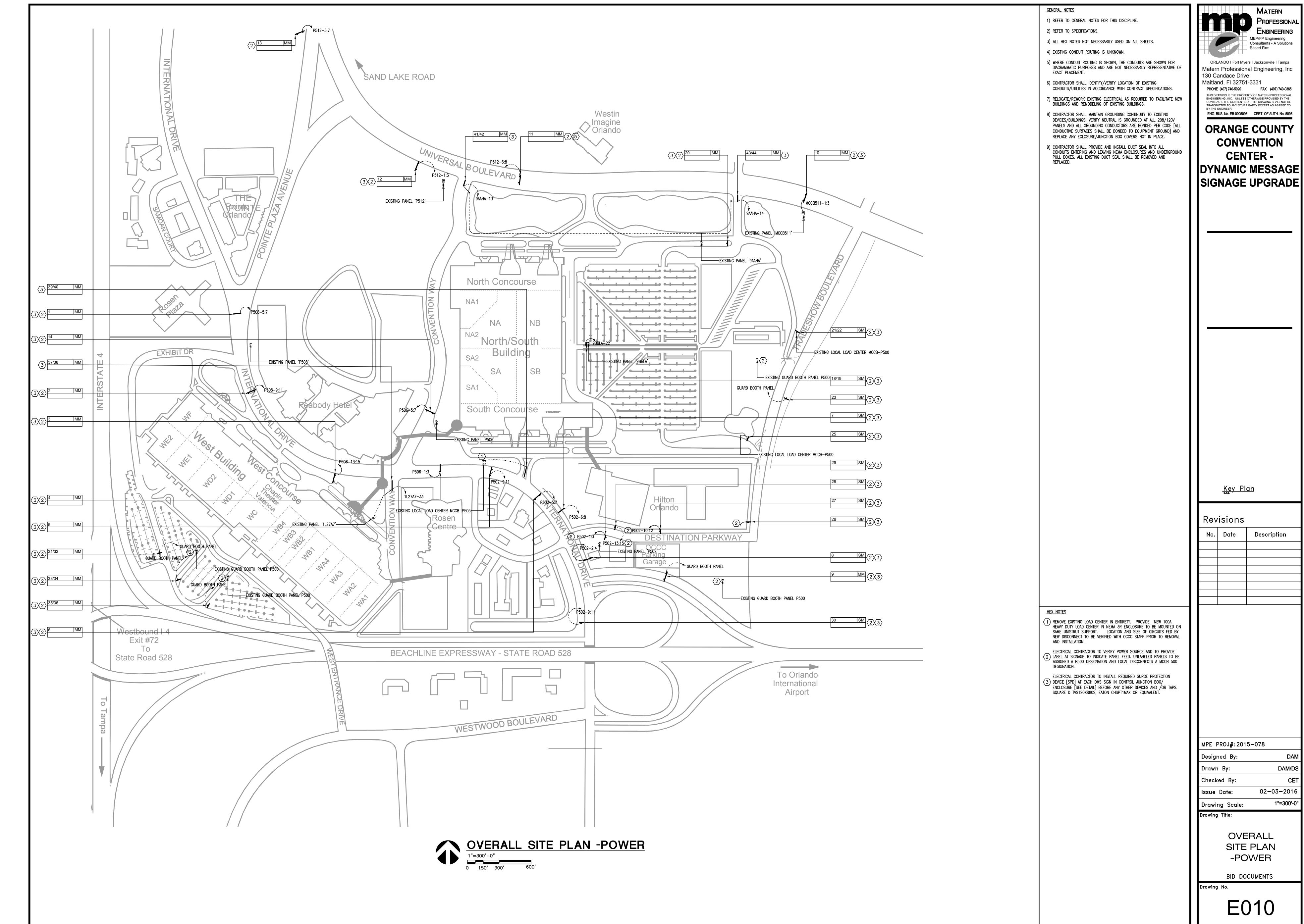
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Drawing Title:

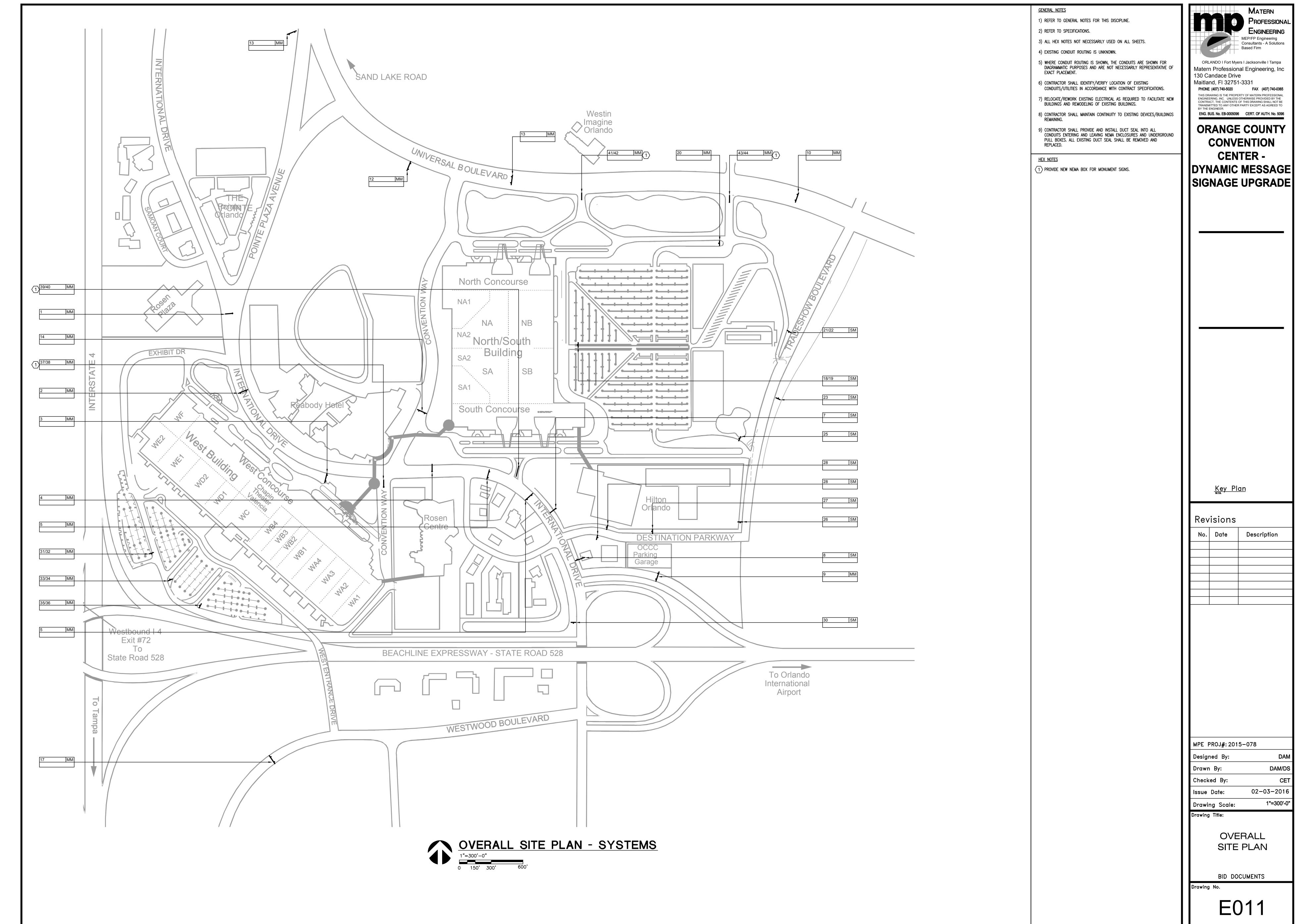
SIGN SCHEDULES

BID DOCUMENTS

Drawing N



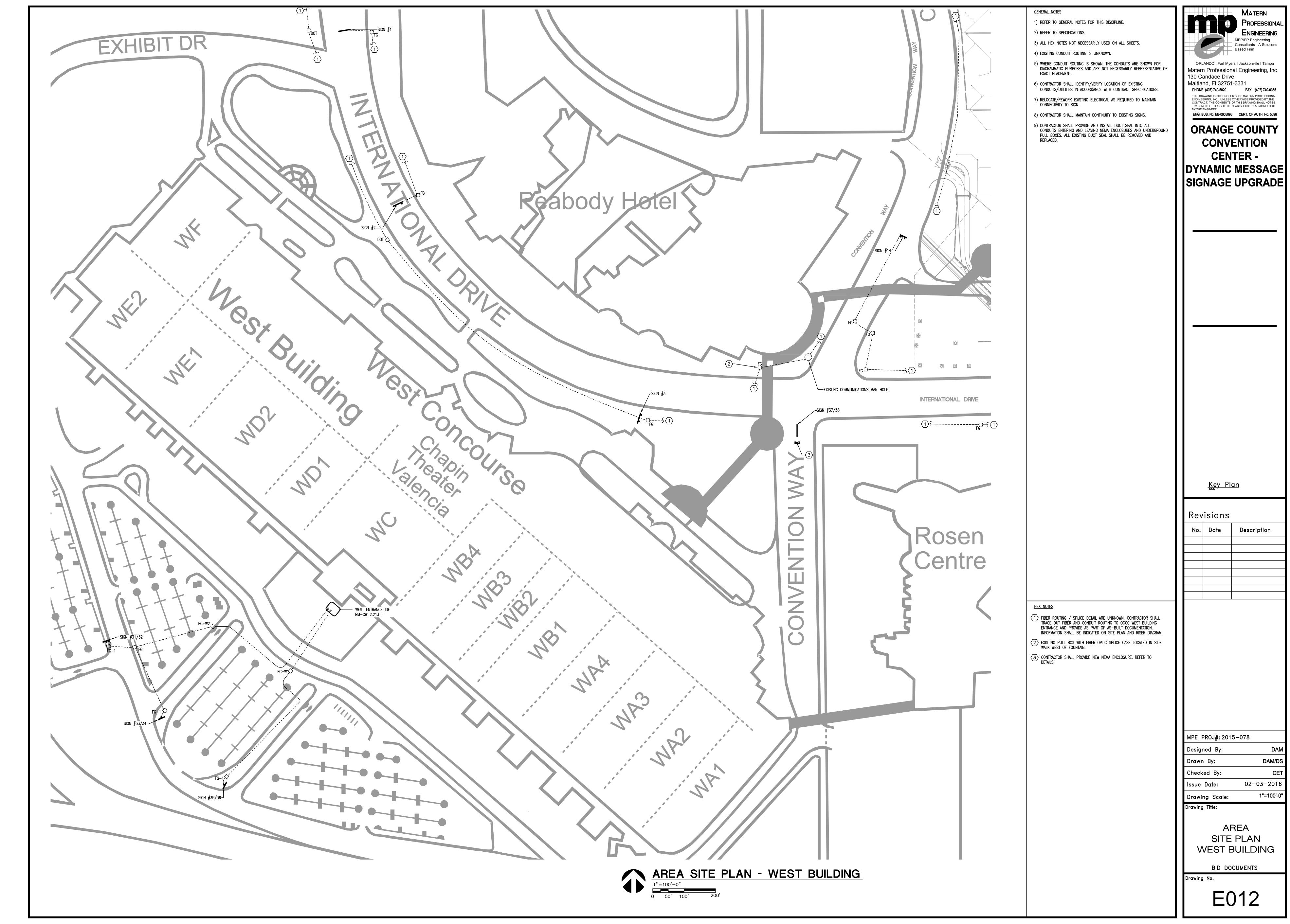
DAM/DS CET



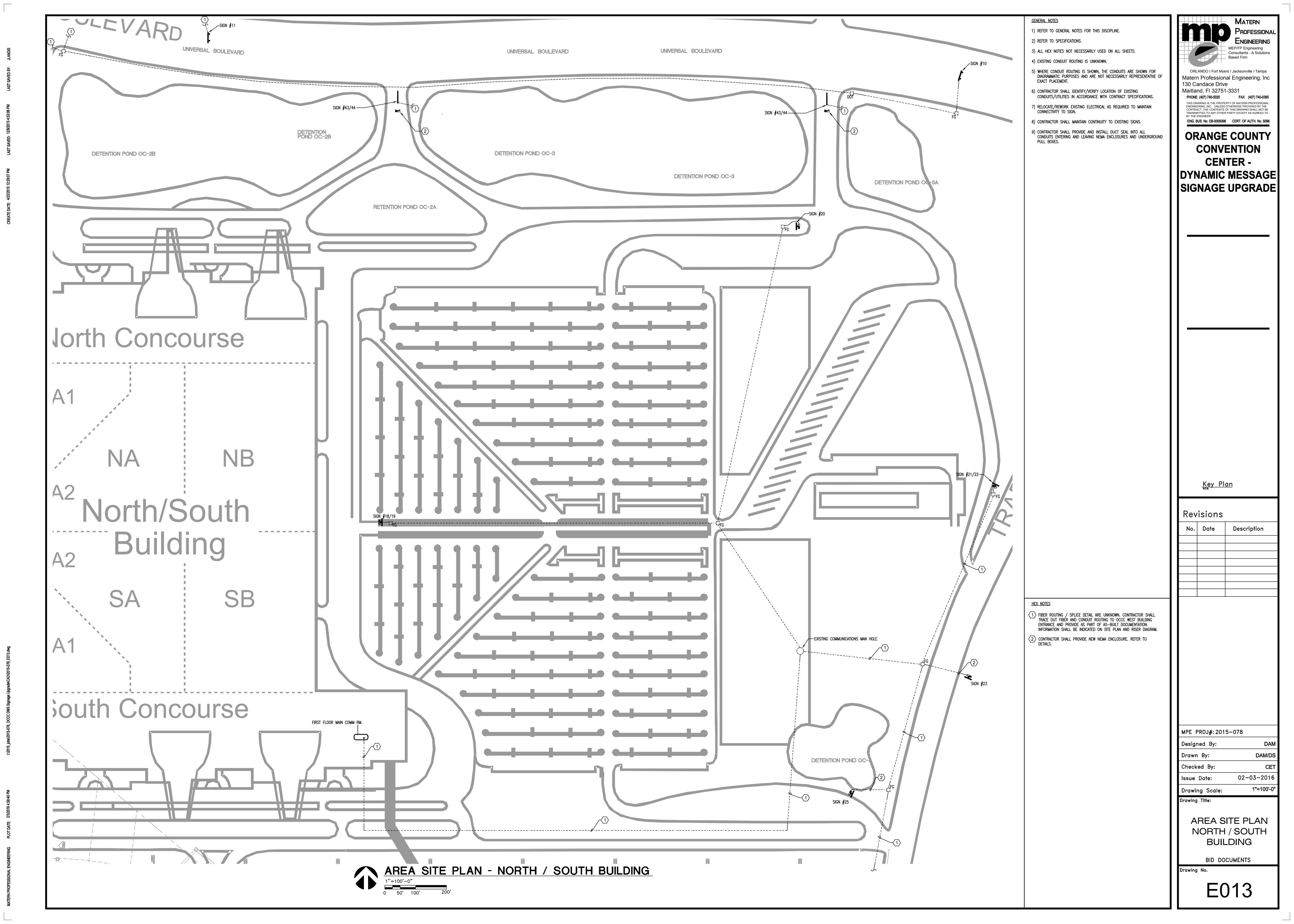
ENGINEERING

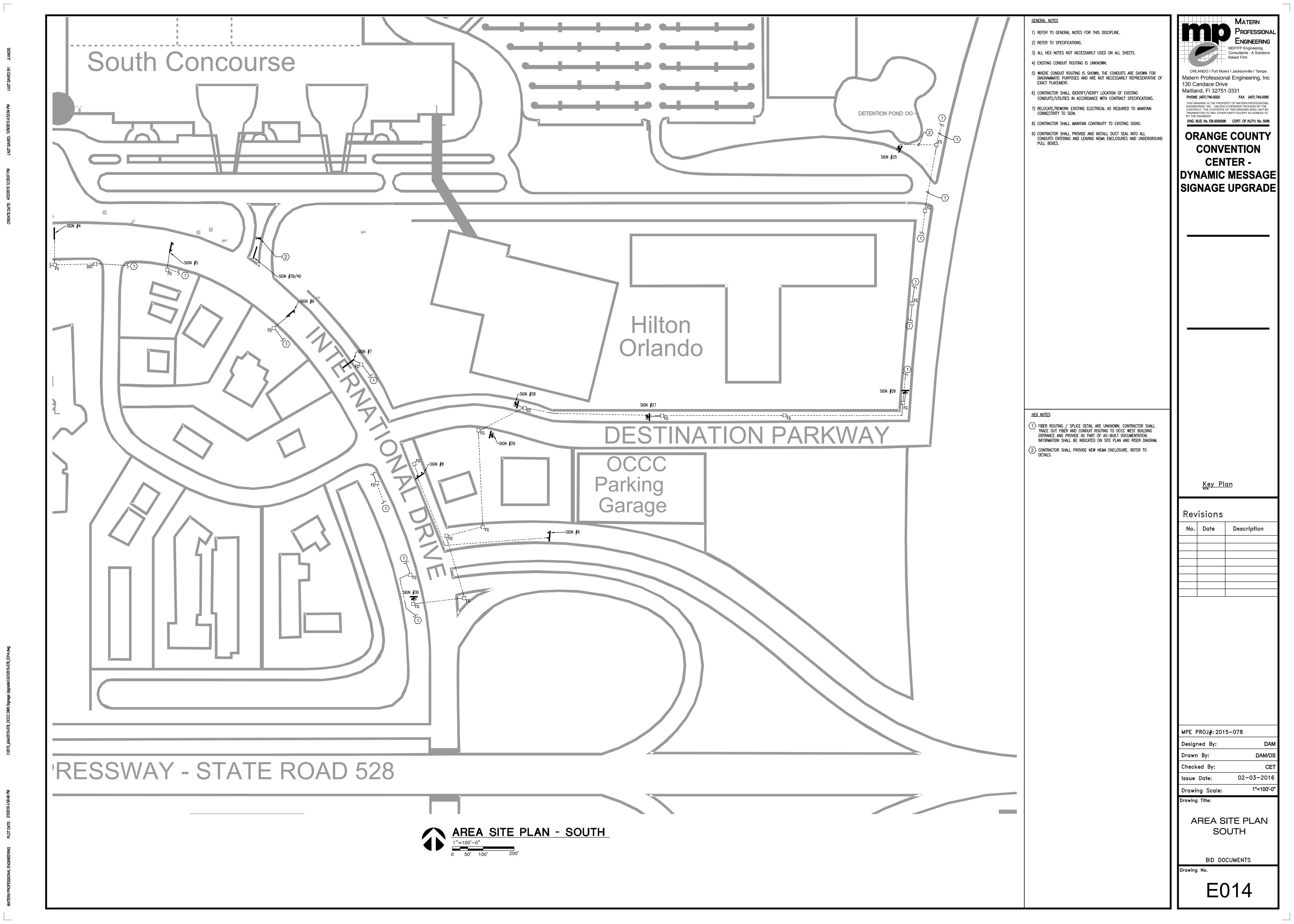
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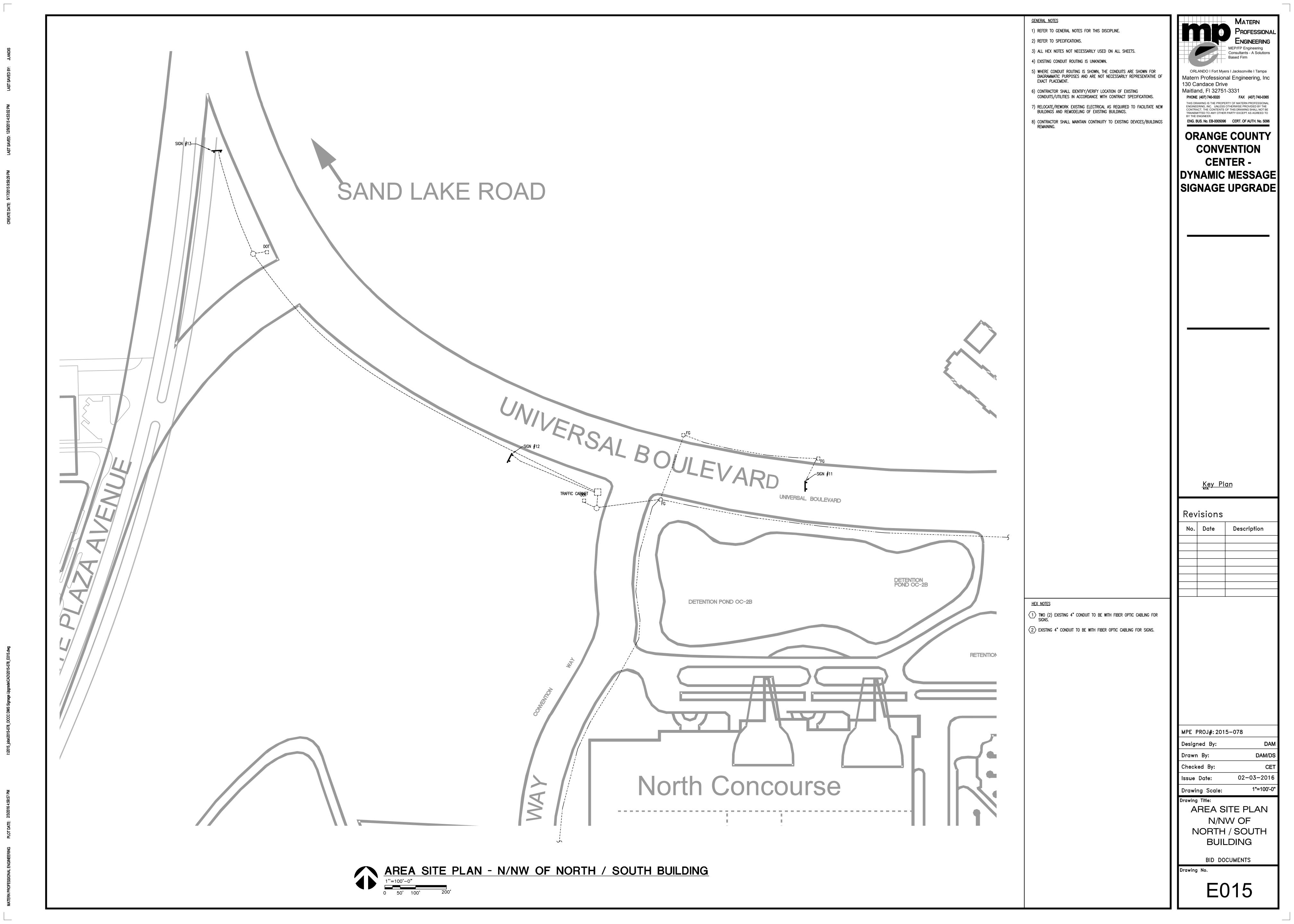
02-03-2016

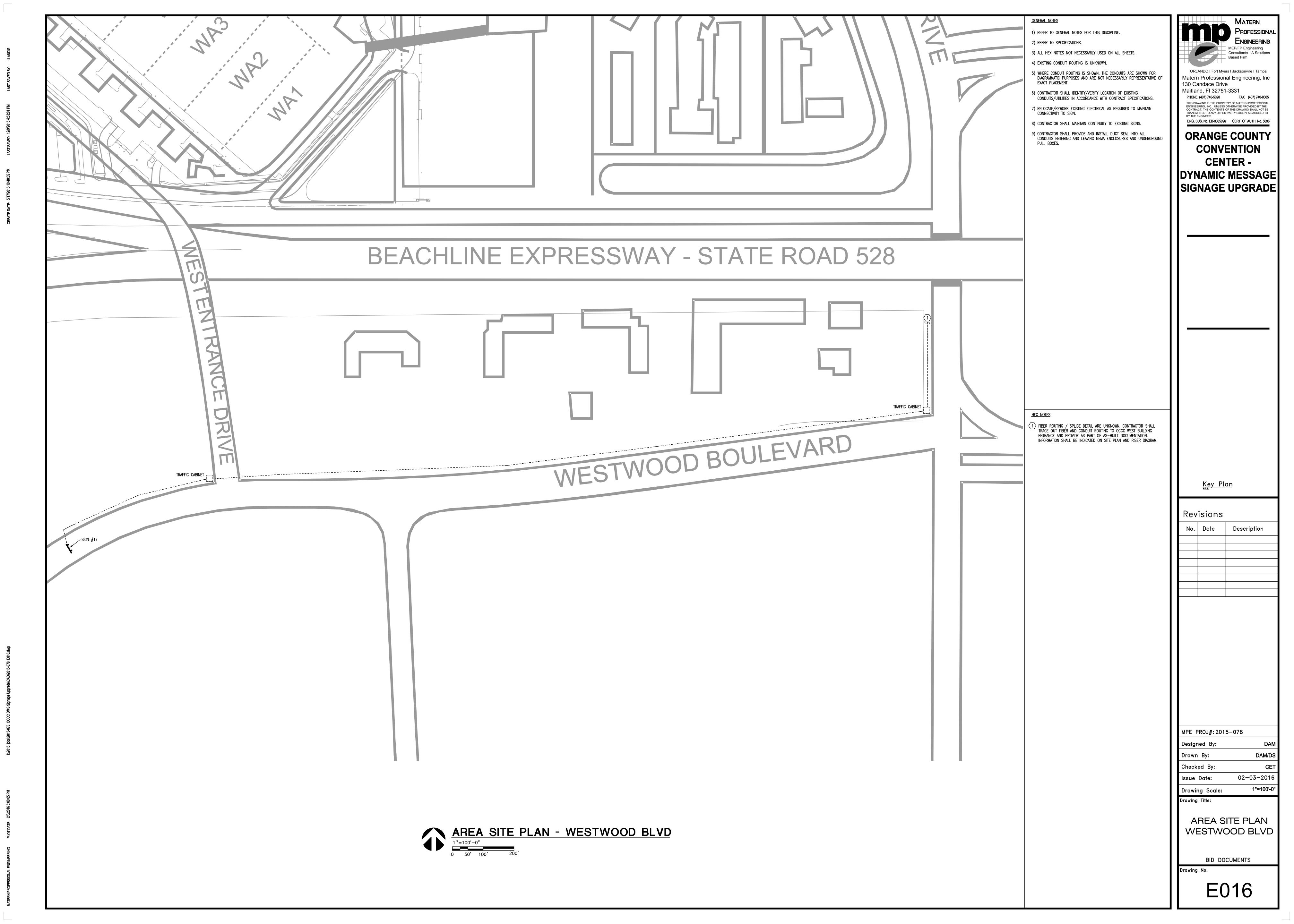


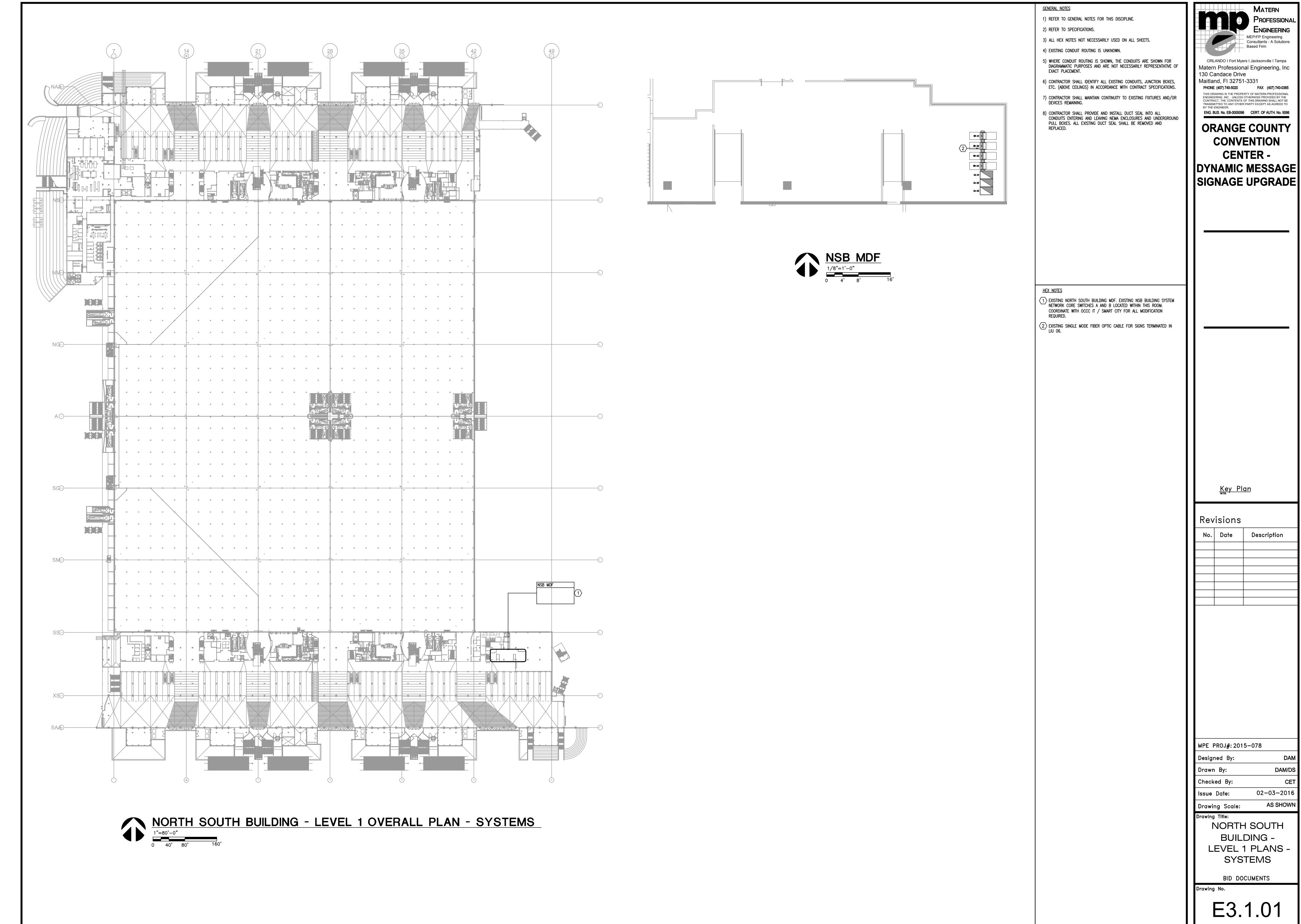
DAM/DS 02-03-2016







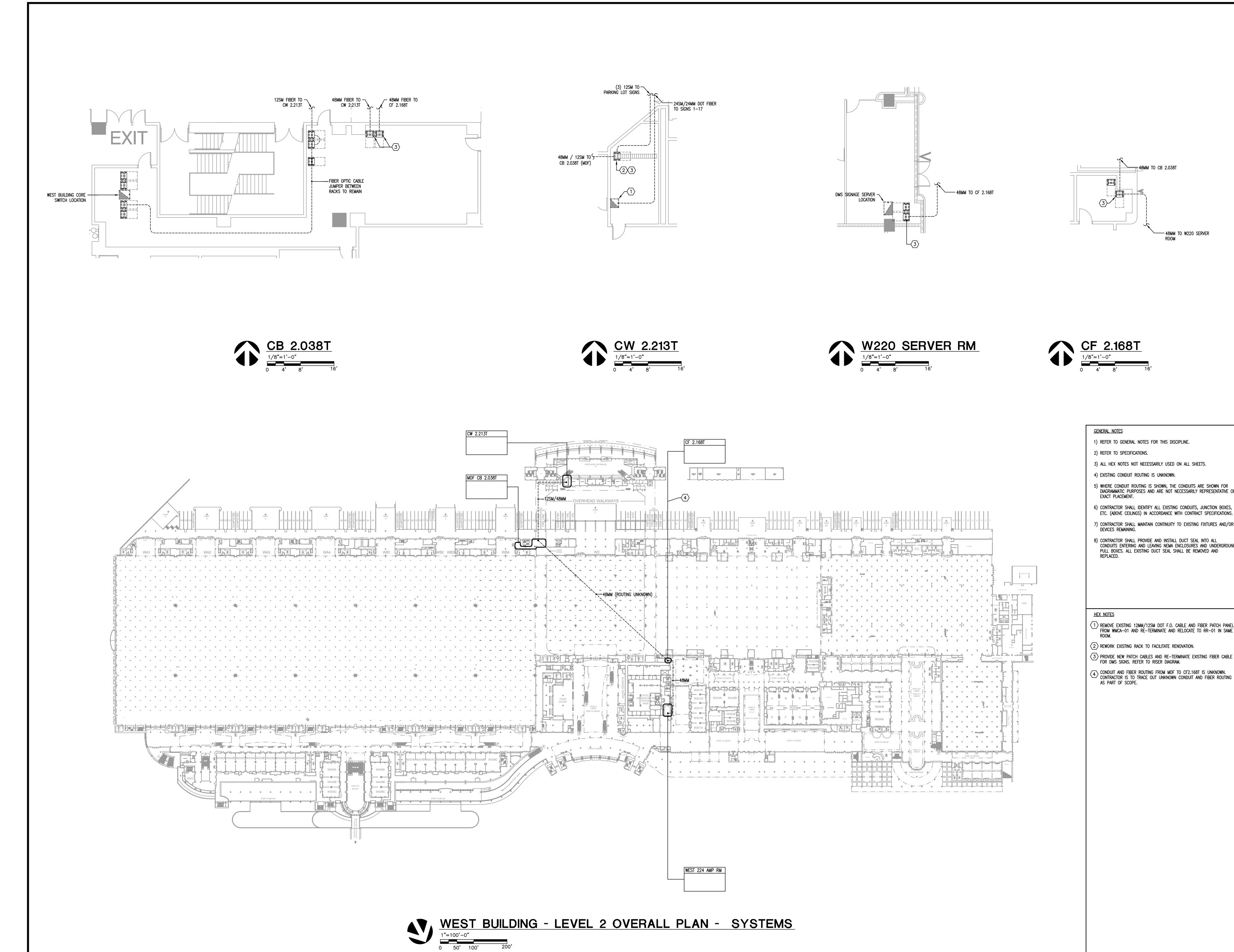




ENGINEERING

NO.	Date	Description

02-03-2016



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ENG. BUS. No. EB-0005096 CERT. OF AUTH. No. 5096 **ORANGE COUNTY CONVENTION**

CENTER -DYNAMIC MESSAGE SIGNAGE UPGRADE

DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF 6) CONTRACTOR SHALL IDENTIFY ALL EXISTING CONDUITS, JUNCTION BOXES.

7) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING FIXTURES AND/OR

8) CONTRACTOR SHALL PROVIDE AND INSTALL DUCT SEAL INTO ALL CONDUITS ENTERING AND LEAVING NEMA ENCLOSURES AND UNDERGROUND PULL BOXES. ALL EXISTING DUCT SEAL SHALL BE REMOVED AND

1 REMOVE EXISTING 12MM/12SM DOT F.O. CABLE AND FIBER PATCH PANEL FROM WMCA-01 AND RE-TERMINATE AND RELOCATE TO RR-01 IN SAME

(3) PROVIDE NEW PATCH CABLES AND RE-TERMINATE EXISTING FIBER CABLE FOR DMS SIGNS. REFER TO RISER DIAGRAM.

CONDUIT AND FIBER ROUTING FROM MDF TO CF2.168T IS UNKNOWN. CONTRACTOR IS TO TRACE OUT UNKNOWN CONDUIT AND FIBER ROUTING

MPE PROJ#: 2015-078 Designed By: Drawn By: Checked By: 02-03-2016

Drawing Scale:

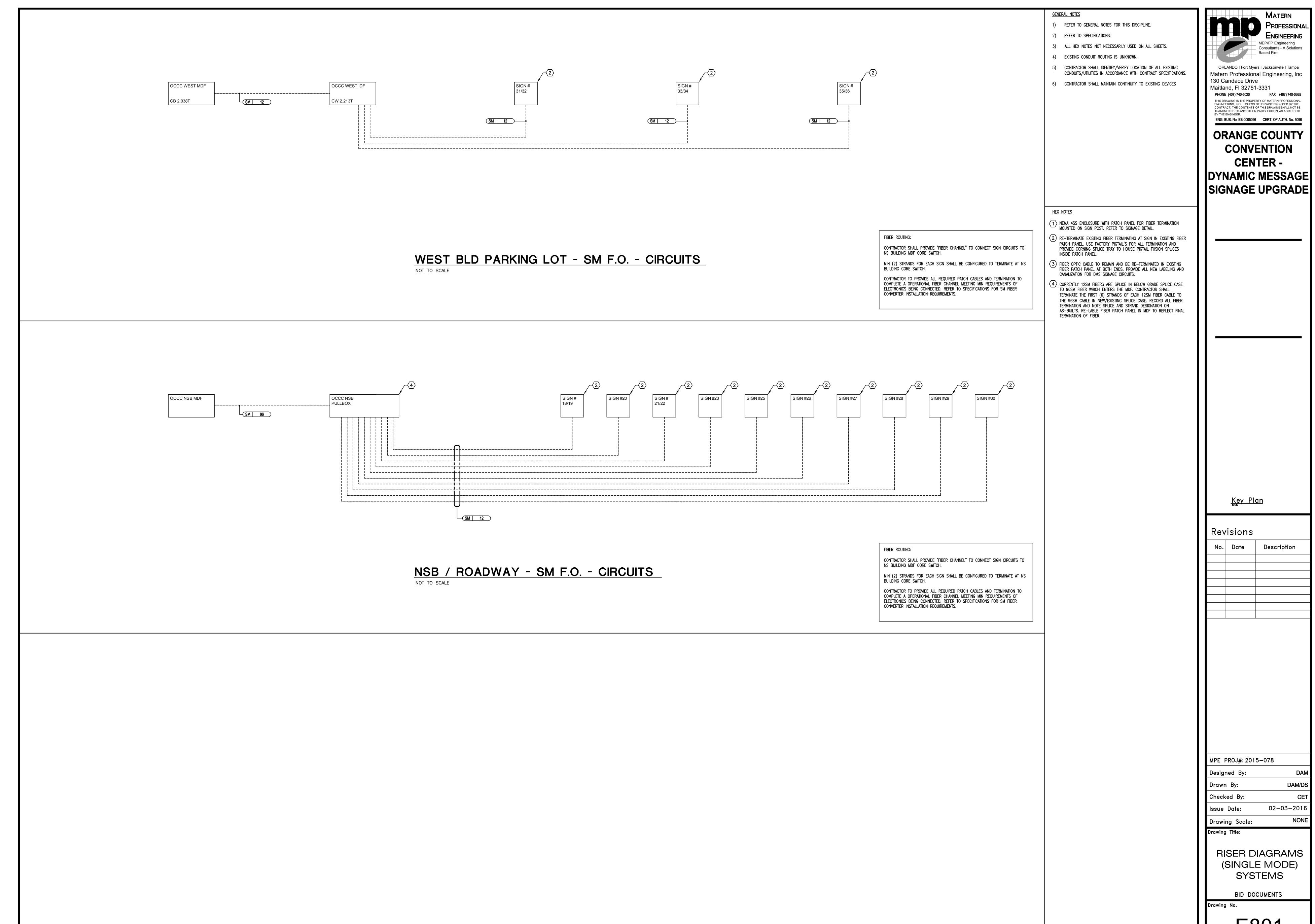
WEST BUILDING -LEVEL 2 PLANS -SYSTEMS

BID DOCUMENTS

No. Date

Description

E3.2.01



Engineering

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ORANGE COUNTY CONVENTION **CENTER -**

No.	Date	Description

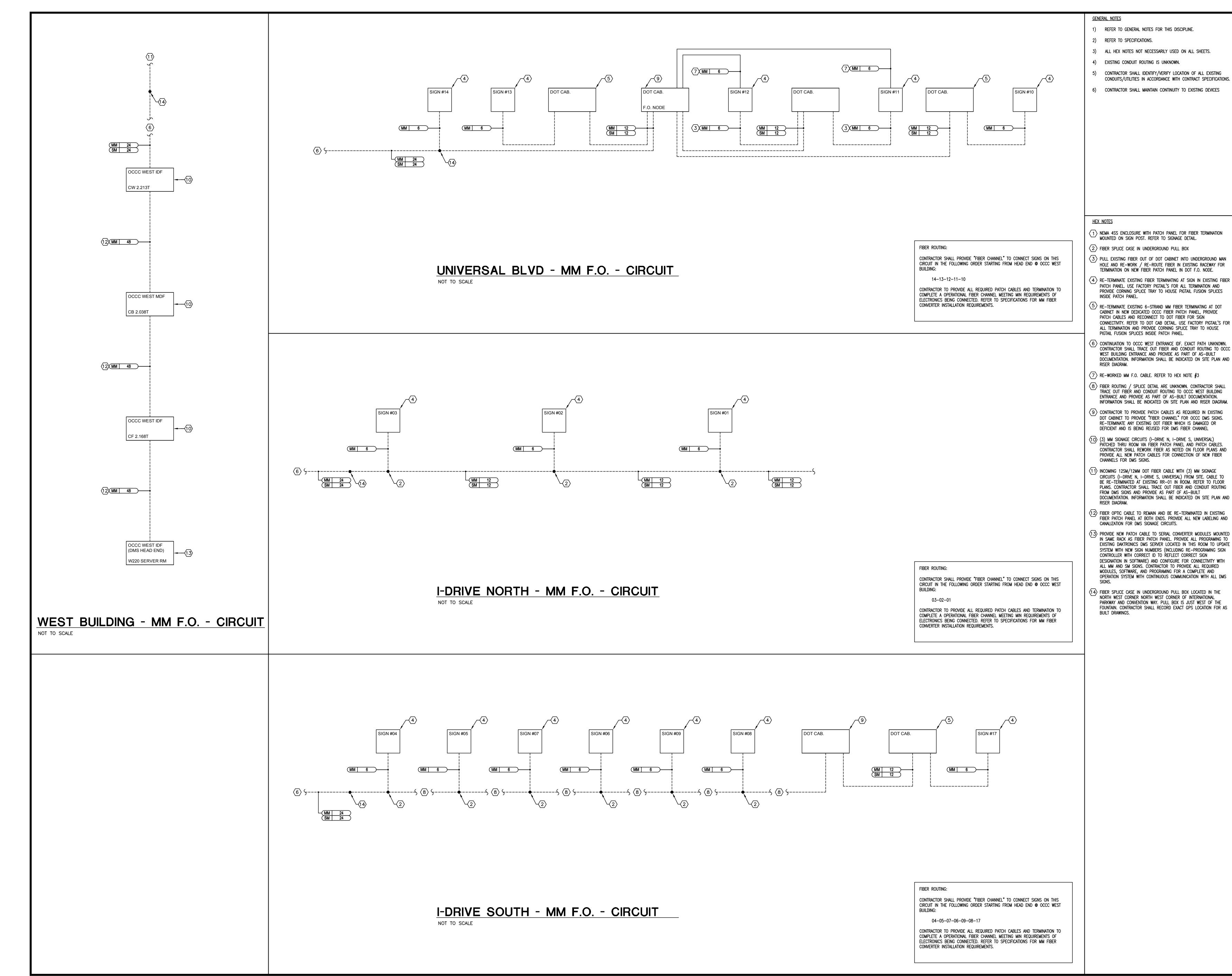
MPE PROJ#: 2015-078

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02-03-2016

(SINGLE MODE)

BID DOCUMENTS



ENGINEERING MEP/FP Engineering

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ORANGE COUNTY CONVENTION **CENTER -**

DYNAMIC MESSAGE

SIGNAGE UPGRADE

- $\langle 3 \rangle$ pull existing fiber out of dot cabinet into underground man
- PROVIDE CORNING SPLICE TRAY TO HOUSE PIGTAIL FUSION SPLICES
- CONNECTIVITY. REFER TO DOT CAB DETAIL. USE FACTORY PIGTAIL'S FOR ALL TERMINATION AND PROVIDE CORNING SPLICE TRAY TO HOUSE
- 8 FIBER ROUTING / SPLICE DETAIL ARE UNKNOWN. CONTRACTOR SHALL TRACE OUT FIBER AND CONDUIT ROUTING TO OCCC WEST BUILDING ENTRANCE AND PROVIDE AS PART OF AS-BUILT DOCUMENTATION.
- DOT CABINET TO PROVIDE "FIBER CHANNEL" FOR OCCC DMS SIGNS. RE-TERMINATE ANY EXISTING DOT FIBER WHICH IS DAMAGED OR
- PATCHED THRU ROOM VIA FIBER PATCH PANEL AND PATCH CABLES. CONTRACTOR SHALL REWORK FIBER AS NOTED ON FLOOR PLANS AND PROVIDE ALL NEW PATCH CABLES FOR CONNECTION OF NEW FIBER
- 12 FIBER OPTIC CABLE TO REMAIN AND BE RE-TERMINATED IN EXISTING FIBER PATCH PANEL AT BOTH ENDS. PROVIDE ALL NEW LABELING AND
- IN SAME RACK AS FIBER PATCH PANEL. PROVIDE ALL PROGRAMING TO EXISTING DAKTRONICS DMS SERVER LOCATED IN THIS ROOM TO UPDATE SYSTEM WITH NEW SIGN NUMBERS (INCLUDING RE-PROGRAMING SIGN DESIGNATION IN SOFTWARE) AND CONFIGURE FOR CONNECTIVITY WITH ALL MM AND SM SIGNS. CONTRACTOR TO PROVIDE ALL REQUIRED MODULES, SOFTWARE, AND PROGRAMING FOR A COMPLETE AND OPERATION SYSTEM WITH CONTINUOUS COMMUNICATION WITH ALL DMS
- (14) FIBER SPLICE CASE IN UNDERGROUND PULL BOX LOCATED IN THE NORTH WEST CORNER NORTH WEST CORNER OF INTERNATIONAL PARKWAY AND CONVENTION WAY. PULL BOX IS JUST WEST OF THE FOUNTAIN. CONTRACTOR SHALL RECORD EXACT GPS LOCATION FOR AS

- HOLE AND RE-WORK / RE-ROUTE FIBER IN EXISTING RACEWAY FOR TERMINATION ON NEW FIBER PATCH PANEL IN DOT F.O. NODE.
- $\langle 5 \rangle$ re-terminate existing 6-strand MM fiber terminating at DOT
- CONTRACTOR SHALL TRACE OUT FIBER AND CONDUIT ROUTING TO OCCC WEST BUILDING ENTRANCE AND PROVIDE AS PART OF AS-BUILT DOCUMENTATION. INFORMATION SHALL BE INDICATED ON SITE PLAN AND
- INFORMATION SHALL BE INDICATED ON SITE PLAN AND RISER DIAGRAM.

- CIRCUITS (I-DRIVE N, I-DRIVE S, UNIVERSAL) FROM SITE. CABLE TO BE RE-TERMINATED AT EXISTING RR-01 IN ROOM. REFER TO FLOOR PLANS. CONTRACTOR SHALL TRACE OUT FIBER AND CONDUIT ROUTING DOCUMENTATION. INFORMATION SHALL BE INDICATED ON SITE PLAN AND

MPE PROJ#: 2015-078

Key Plan

Description

Revisions

No. Date

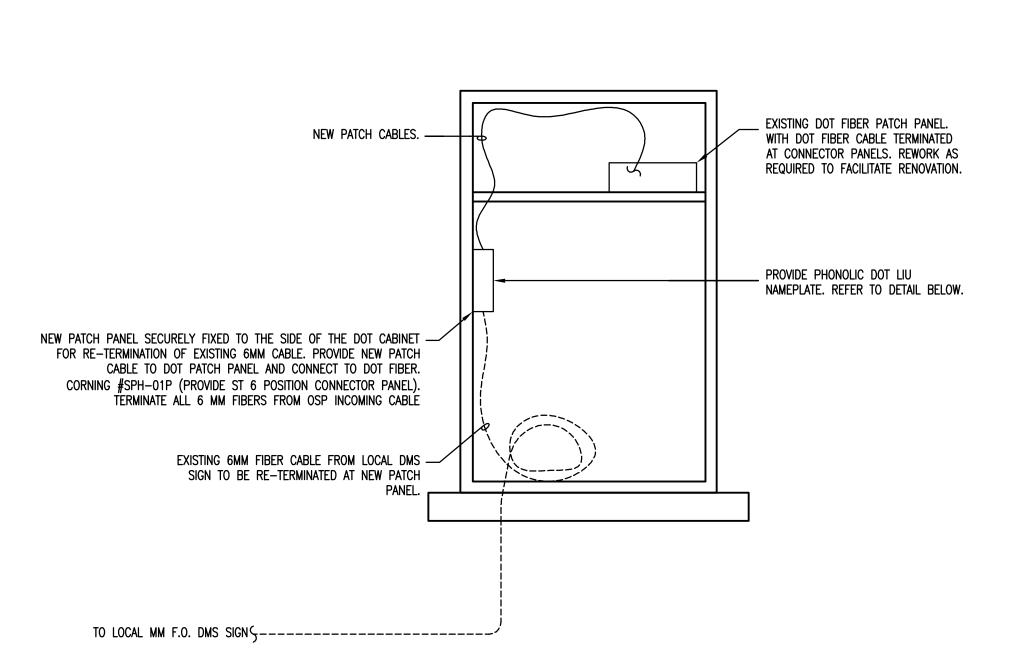
DAM/DS Drawn By: Checked By: 02-03-2016 Issue Date:

Drawing Scale: Drawing Title:

Designed By:

RISER DIAGRAMS (MULTI MODE) SYSTEMS

BID DOCUMENTS



DOT CABINET FIBER TERMINATION DETAIL

THE FOLLOWING PAGES OUTLINE GENERAL LABELING ACTIVITIES FOR THE VARIOUS PIECES OF THE COMMUNICATIONS INFRASTRUCTURE. CABLES, PATHWAYS, SIGNIFICANT JUNCTION BOXES, PDS COMPONENTS ETC. SHALL BE LABELED AT EACH EXPOSED AND TERMINATION POINT AND AS DETAILED BELOW *DOCUMENT NOT ALL INCLUSIVE.

- CABLE AND PATHWAY LABELS ELECTRONICALLY GENERATED BY THERMAL TRANSFER PRINTER. ALL LABEL'S WITH ALL FIELDS SHALL BE DELIVERED TO OWNER ELECTRONICALLY.
- CABLE AND PATHWAY LABELS PRINTED IN ALL CAPITAL LETTERS. ALL COMPONENTS FOLLOW "END ONE" / "END TWO" FORMAT AND NAMED FOR INVENTORY FORMAT FOLLOWINGTIA STANDARD FIELDS' STRUCTURED
- CABLE AND PATHWAY LABELS PRINTED ON ADHESIVE TAGS NO LESS THAN 2" IN HEIGHT AND PERMANENTLY PLACED, LONGITUDINALLY OR FLAGGED. MUST BE VISIBLE.
- CABLE AND PATHWAY LABELS MADE OF POLYESTER OR SIMILAR DURABLE MATERIAL WITH PERMANENT ADHESIVE CHARACTERISTICS TYPICALLY FOUND IN TELECOMMUNICATION LABELS. CABLE LABELS TO BE SELF-LAMINATING.
- CABLE LABELING ATTACHED FOR EASY ACCESS AND VISIBILITY TO THE CABLE WITHIN 12" OF ENTERING THE LIU OR TERMINATING AT PATCH PANEL
- CABLE LABELING ATTACHED FOR EASY ACCESS AND VISIBILITY TO THE CABLE 12" 16" BEFORE ENTERING CONDUIT OR INNER-DUCT PATHWAY
- PATHWAY LABELING ATTACHED FOR EASY ACCESS AND VISIBILITY TO CONDUIT (OCCUPIED WITH CABLE OR INNER-DUCT). SHALL BE VISIBLE WITHOUT MOVEMENT
- INNER-DUCT AND CABLES TO BE LABELED ANY TIME THE INNER-DUCT OR CABLE IS/CAN BE EXPOSED I.E. PULL/JUNCTION BOXES, MANHOLES, AND SIMILAR CONDITIONS
- INNER-DUCTS AND CABLES TO BE LABELED IN ALL PULL-BOXES, MANHOLES, JUNCTION BOXES. LABELS TO BE MINIMUM 4IN X 2IN, RATED FOR OUTDOOR USE AND PERMANENTLY SECURED BY ONE TIE WRAP AT EACH
- REFER TO SPECIFICATIONS FOR ADDITIONAL LABELING REQUIREMENTS.
- RE-LABLE ALL CABLING, DEVICES, CABINETS, PROGRAMING IN SOFTWARE, ETC TO REFLECT NEW SIGN ID# AS INDICATED IN SIGN SCHEDULE

GENERAL LABELING GUIDELINES

NOT TO SCALE

- PROVIDE ORANGE LAMINATE WITH WHITE LETTERS. COLOR SYSTEMS ARE TO REMAIN CONSISTENT THROUGHOUT OUT ENTIRE SYSTEM.
- 2. PROVIDE SIGN ON ENGRAVED LAMINATE SIGN WITH MINIMUM OF 1/2" LETTERS.

NOT TO SCALE

- SIGN SHALL BE PERMANENTLY AFFIXED TO THE COVER OF THE LIU.
- 4. ALL SIGNS SHALL BE SUBMITTED AND APPROVED BY ENGINEER / OWNER PRIOR TO INSTALLATION.

DOT LIU NAME PLATE

OCCC DMS FIBER OPTIC SYSTEM

PLEASE CONTACT ORANGE COUNTY CONVENTION CENTER SECURITY OPERATIONS PRIOR TO ANY MODIFICATION TO THIS FIBER OPTIC CABLE OR PATCH CABLES

SIGN NAME PLATE (MM)

NOTES:

- PROVIDE ORANGE LAMINATE WITH WHITE LETTERS. COLOR SYSTEMS ARE TO REMAIN CONSISTENT THROUGHOUT OUT ENTIRE SYSTEM.
- PROVIDE SIGN ON ENGRAVED LAMINATE SIGN WITH MINIMUM OF 1/2" LETTERS.

THROUGHOUT OUT ENTIRE SYSTEM.

PANEL NUMBER, AND PORT RANGE

FROM SIGN. i.e N, NW, S, SE.

- SIGN SHALL BE PERMANENTLY AFFIXED TO INSIDE OF EACH SIGN NEMA BOX DOOR.
- INCOMING FIBER INFORMATION SHALL INDICATE UPSTREAM SIGN NUMBER (OR WEST BUILDING IDF),

4. ALL SIGNS SHALL BE SUBMITTED AND APPROVED BY ENGINEER / OWNER PRIOR TO INSTALLATION.

- UPSTREAM PATCH PANEL PORT RANGE (i.e. 3-4), AND LOCAL PATCH PANEL PORT RANGE (i.e. 1-2).
- 6. OUTGOING FIBER INFORMATION SHALL INDICATE DOWNSTREAM SIGN NUMBER (OR END OF CIRCUIT), LOCAL PATCH PANEL PORT RANGE (i.e. 3-4), AND DOWNSTREAM PATCH PANEL PORT RANGE (i.e.
- 7. POWER INFO TO INCLUDE PANEL ID, CIRCUIT NUMBER, AND CARDINAL DIRECTION OF POWER PANEL FROM SIGN. i.e N. NW. S. SE.

PROVIDE YELLOW LAMINATE WITH WHITE LETTERS. COLOR SYSTEMS ARE TO REMAIN CONSISTENT

4. ALL SIGNS SHALL BE SUBMITTED AND APPROVED BY ENGINEER / OWNER PRIOR TO INSTALLATION.

6. POWER INFO TO INCLUDE PANEL ID, CIRCUIT NUMBER, AND CARDINAL DIRECTION OF POWER PANEL

5. FIBER ORIGINATION LOCATION SHALL INCLUDE BUILDING, ROOM NUMBER, RACK NUMBER, PATCH

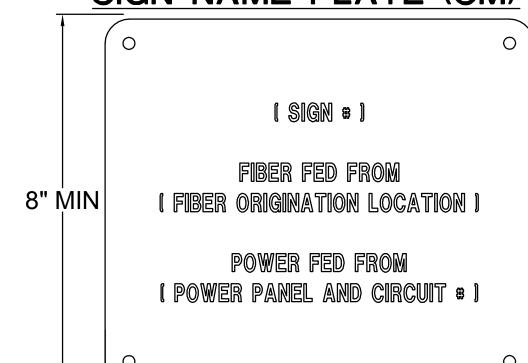
2. PROVIDE SIGN ON ENGRAVED LAMINATE SIGN WITH MINIMUM OF 1/2" LETTERS.

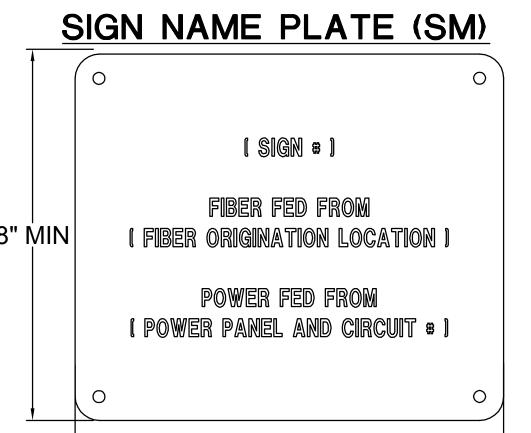
SIGN SHALL BE PERMANENTLY AFFIXED TO INSIDE OF EACH SIGN NEMA BOX DOOR.

(SIGN :) INCOMING FIBER FED FROM (FIBER ORIGINATION LOCATION) 8" MIN OUTGOING FIBER TO (FIBER DESIGNATION LOCATION POWER FED FROM

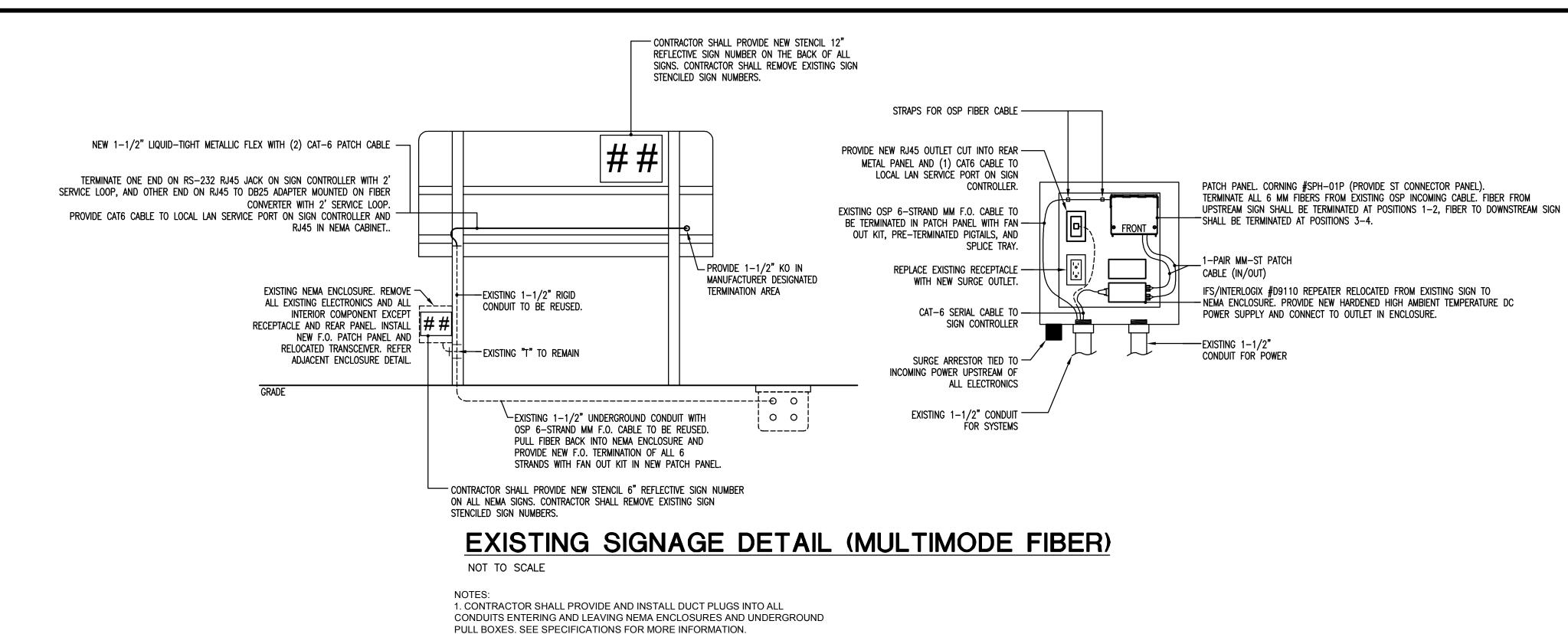
[POWER PANEL AND CIRCUIT :]

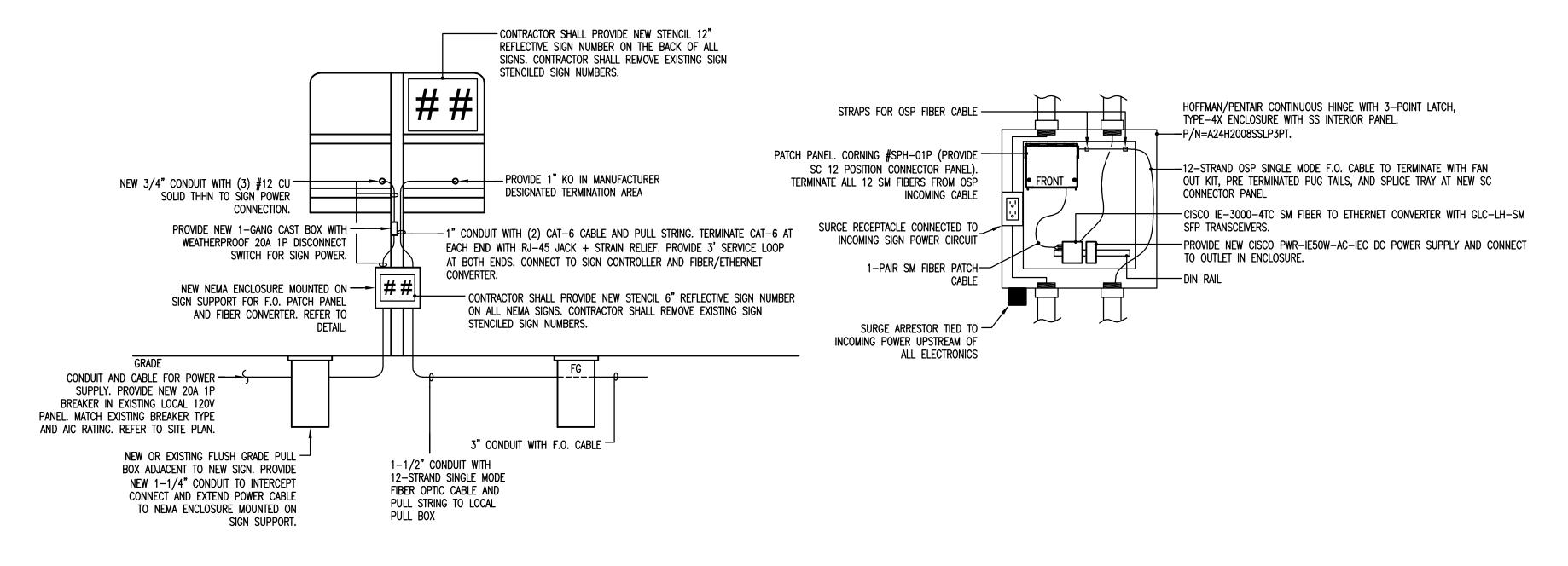
-8" MIN-





-8" MIN-

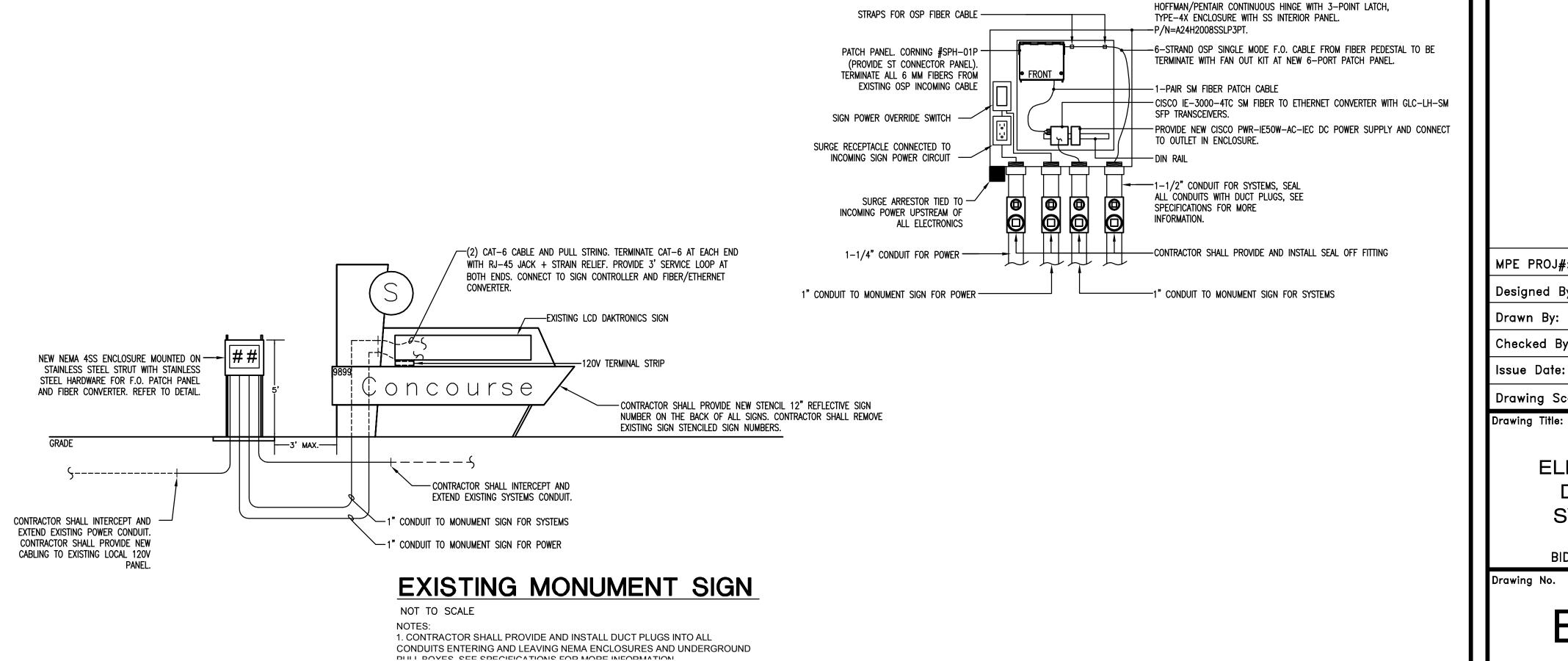


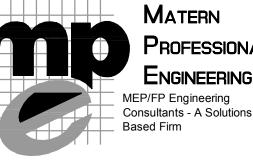


EXISTING SIGNAGE DETAIL (SINGLEMODE FIBER)

1. CONTRACTOR SHALL PROVIDE AND INSTALL DUCT PLUGS INTO ALL CONDUITS ENTERING AND LEAVING NEMA ENCLOSURES AND UNDERGROUND

PULL BOXES. SEE SPECIFICATIONS FOR MORE INFORMATION.





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ORANGE COUNTY CONVENTION CENTER -

IDYNAMIC MESSAGE SIGNAGE UPGRADE

Key Plan

Revisions

No. Date

Description

MPE PROJ#: 2015-078 Designed By: DAM/DS Drawn By: Checked By: CET

02-03-2016

Drawing Scale: Drawing Title:

> **ELECTRICAL DETAILS** SYSTEMS

BID DOCUMENTS

Drawing No.