

ELECTRICAL NOTES

1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
2. PERMITS FOR ELECTRICAL WORK SHALL BE OBTAINED BY AND PAID BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ANY ADDITIONAL FEES FOR INSPECTIONS, TESTS, AND OTHER SERVICES AS REQUIRED FOR THE COMPLETION OF THE WORK.
3. THE ELECTRICAL CONTRACTOR AND ANY OF HIS SUBCONTRACTORS SHALL VISIT THE PROJECT SITE TO WITNESS EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE SCOPE OF THE WORK REQUIRED PRIOR TO SUBMITTING PROPOSALS. WORK REQUIRED BY EXISTING JOB CONDITIONS NOT INDICATED ON DRAWINGS SHALL BE INCLUDED IN THE BID.
4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO RESULT IN THE PRODUCTION OF A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, AND OTHER SERVICES AS NECESSARY TO COMPLETE THE WORK.
5. DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS THAT WILL AFFECT THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, ENGINEER, AND/OR OWNER PRIOR TO SUBMITTING PROPOSALS.
6. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND INCLUDE A 3RD PARTY LABEL (I.E.: UL, CSA, ETL, ETC.) LISTING APPROVAL FOR ITS INSTALLED APPLICATION.
7. REVIEW PLANS OF OTHER TRADES FOR COORDINATION OF WORK AND FOR RELATED AND ADJOINING WORK.
8. REVIEW COMPLETE PLAN SET FOR CONSTRUCTION TYPE, FINISHES, HEADROOM, ROOF FINISHES, CEILINGS, ETC. REVIEW COMPLETE PLAN SET FOR PROJECT PHASING AND STAGING. REVIEW COMPLETE PLAN SET FOR WORK COVERED BY ALTERNATE BID ITEMS.
9. COORDINATE DEVICE AND EQUIPMENT MOUNTING HEIGHTS WITH OTHER DISCIPLINE DRAWINGS, CASEWORK DETAILS & SUBMITTALS, EQUIPMENT DETAILS & SUBMITTALS, ETC.
10. PENETRATIONS OF FIRE-RATED WALLS, FLOORS, CEILINGS, AND PARTITIONS SHALL BE FIRE STOPPED IN ACCORDANCE WITH REQUIREMENTS OF THE STATE BUILDING CODE. COORDINATE WORK TO INSURE THAT FIRE STOPPING IS COMPLETED.
11. PENETRATIONS OF SMOKE PARTITIONS SHALL BE SEALED IN ACCORDANCE WITH REQUIREMENTS OF THE STATE BUILDING CODE. COORDINATE WORK TO INSURE THAT SMOKE PARTITION SEALING IS COMPLETED.
12. PENETRATIONS OF EXTERIOR BUILDING WALLS, FLOORS, OR ROOFS SHALL BE SEALED WATERTIGHT. INTERIORS OF RACEWAY PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WITH NON-HARDENING ELECTRICAL PUTTY.
13. CUTTING AND PATCHING TO INSTALL DEVICES AND EQUIPMENT SHALL BE PERFORMED WITH FINISHES RESTORED TO THEIR ORIGINAL CONDITION. SUCH WORK SHALL BE COMPLETED TO A DEGREE THAT IS ACCEPTABLE TO THE ARCHITECT, ENGINEER, AND/OR OWNER.
14. PROVIDE NATIONAL ELECTRICAL CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES.
15. PRIOR TO ORDERING LIGHT FIXTURES, CONTRACTOR SHALL VERIFY TYPE OF CEILING OR WALL BY REVIEW OF ARCHITECTURAL FINISH SCHEDULES AND PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL INDICATED.
16. EXIT AND EMERGENCY LIGHTS SHALL BE CONNECTED TO THE NEAREST UNSWITCHED CIRCUIT THAT SERVES LIGHT FIXTURES WITHIN THE SAME SPACE.
17. NO MOUNTING HARDWARE SHALL BE ATTACHED TO ROOF DECKS. ATTACHMENTS SHALL BE MADE TO THE ROOF SUPPORTING STRUCTURE.
18. PANEL BUS MATERIAL: COPPER
19. SHARED NEUTRAL CONDUCTORS SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED SO ON HOMERUN CIRCUITRY DESIGNATIONS.
20. PANEL BREAKER CONFIGURATIONS SHALL BE INSTALLED AS INDICATED ON THE PANEL SCHEDULES OR AS NOTED. BREAKER POSITION REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
21. LOAD CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. CIRCUITRY REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.

ABBREVIATIONS

- ADA AMERICAN DISABILITIES ACT
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AIC AIR HANDLER UNIT
BKR AMPS INTERRUPTING CAPABILITY BREAKER
C CONDUIT
CB/CBTV CIRCUIT BREAKER
CLG CLOSED CIRCUIT TELEVISION
CLG CIRCUIT
COMP COMPRESSOR
CS COMPANY SWITCH
CU COPPER
DIA DIAMETER
DWG DRAWING
EMT ELECTRICAL METALLIC TUBING
ENCL ENCLOSED
EXSTG EXISTING
FACP FIRE ALARM CONTROL PANEL
FACU FIRE ALARM CONTROL UNIT
G EQUIPMENT GROUND
GEC GROUNDING ELECTRODE CONDUCTOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER
GFI GROUND FAULT INTERRUPTER
HPF HIGH POWER FACTOR
HP HEAT PUMP
HP HORSEPOWER
IMC INTERMEDIATE METAL CONDUIT
K KILO (THOUSAND)
LED LIGHT EMITTING DIODE
LTG LIGHTING
LTS LIGHTS
MCB MAIN CIRCUIT BREAKER
MDP MAIN DISTRIBUTION PANEL
MFR MANUFACTURER
MLO MAIN LUG ONLY
MSB MAIN SWITCHBOARD
N/A NOT APPLICABLE
NEC NATIONAL ELECTRICAL CODE
NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NTS NOT TO SCALE
P PHASE OR POLE
PH PHASE
PLC PROGRAMMABLE LOGIC CONTROLLER
POS POINT OF SALE
PNL PANEL
PVC POLYVINYL CHLORIDE
REC RECEPTACLE
REQ REQUIRED
RIGD RIGID GALVANIZED CONDUIT
RGS RIGID GALVANIZED STEEL
S.S. STAINLESS STEEL
SYS SYSTEM
S/N SOLID NEUTRAL
TYP TYPICAL
UL UNDERWRITERS LABORATORY
UNO UNLESS NOTED OTHERWISE
UON UNLESS OTHERWISE NOTED
V VOLTS
VA VOLT-AMPS
VFD VARIABLE FREQUENCY DRIVE
W WATTS
W WIRE
W WITH
WP WEATHERPROOF
XMR TRANSFORMER

MISC. ELECTRICAL SYMBOL LEGEND

ENCLOSED CIRCUIT BREAKER, NEMA 1 (UNO), AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT RATING.

EQUIPMENT CONNECTION

SAFETY SWITCH DISCONNECT, HEAVY-DUTY, NON-FUSED, NEMA 1 INSIDE, NEMA 4X OUTSIDE (UNO), AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT BREAKER RATING.

SAFETY SWITCH DISCONNECT, HEAVY-DUTY, FUSED AT NAMEPLATE RATING OF EQUIPMENT SERVED, NEMA 1 INSIDE, NEMA 4X OUTSIDE (UNO), AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT BREAKER RATING.

MOTOR CONTROLLER, STARTER OR VFD, NEMA 1 ENCLOSURE INSIDE, NEMA 4X OUTSIDE ENCLOSURE (UNO). PROVIDE OVERLOAD DEVICES BASED ON NAMEPLATE RATING OF EQUIPMENT SERVED.

MOTOR CONTROLLER, COMBINATION CIRCUIT BREAKER DISCONNECT / MOTOR STARTER OR VFD, NEMA 1 ENCLOSURE INSIDE, NEMA 4X OUTSIDE ENCLOSURE (UNO). PROVIDE OVERLOAD DEVICES BASED ON NAMEPLATE RATING OF EQUIPMENT SERVED.

MANUAL MOTOR STARTER, SIZED IN ACCORDANCE WITH NAMEPLATE RATING OF EQUIPMENT SERVED

PANELBOARD, SEE PANEL SCHEDULE

GROUND ROD, 3/4" X 10' COPPER CLAD. WHERE TWO RODS ARE INDICATED, SPACE A MINIMUM OF 20' APART.

HOMERUN DESIGNATION, #12 CONDUCTORS UNLESS NOTED OTHERWISE.

EQUIPMENT GROUND CONDUCTOR

PHASE CONDUCTOR

NEUTRAL CONDUCTOR







LETTER INDICATES ELEVATION OR DETAIL; NUMBER INDICATES PLAN OR SECTION

SHEET NUMBER WHERE PLAN, SECTION, ELEVATION OR DETAIL IS DRAWN







PROVIDED BY EC, INSTALLED BY EC

CONDUCTOR TERMINATIONS IN EQUIPMENT BY EQUIPMENT INSTALLER





RECEPTACLE LEGEND

SYMBOL	NEMA	VOLTS	DESCRIPTION
	5-20R	120V 1P 2W	DUPLEX, MTD 18" AFF UNO
	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 6" ABOVE COUNTER HEIGHT UNO
	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 18" AFF UNO
	FAP	120V 1P 2W	POWER FOR FIRE ALARM CONTROL PANEL
	5-20R	120V 1P 2W	QUAD, MTD 18" AFF UNO
		120V 1P 2W	EXHAUST FAN; SEE MECHANICAL SCHEDULE.








FIRE ALARM LEGEND

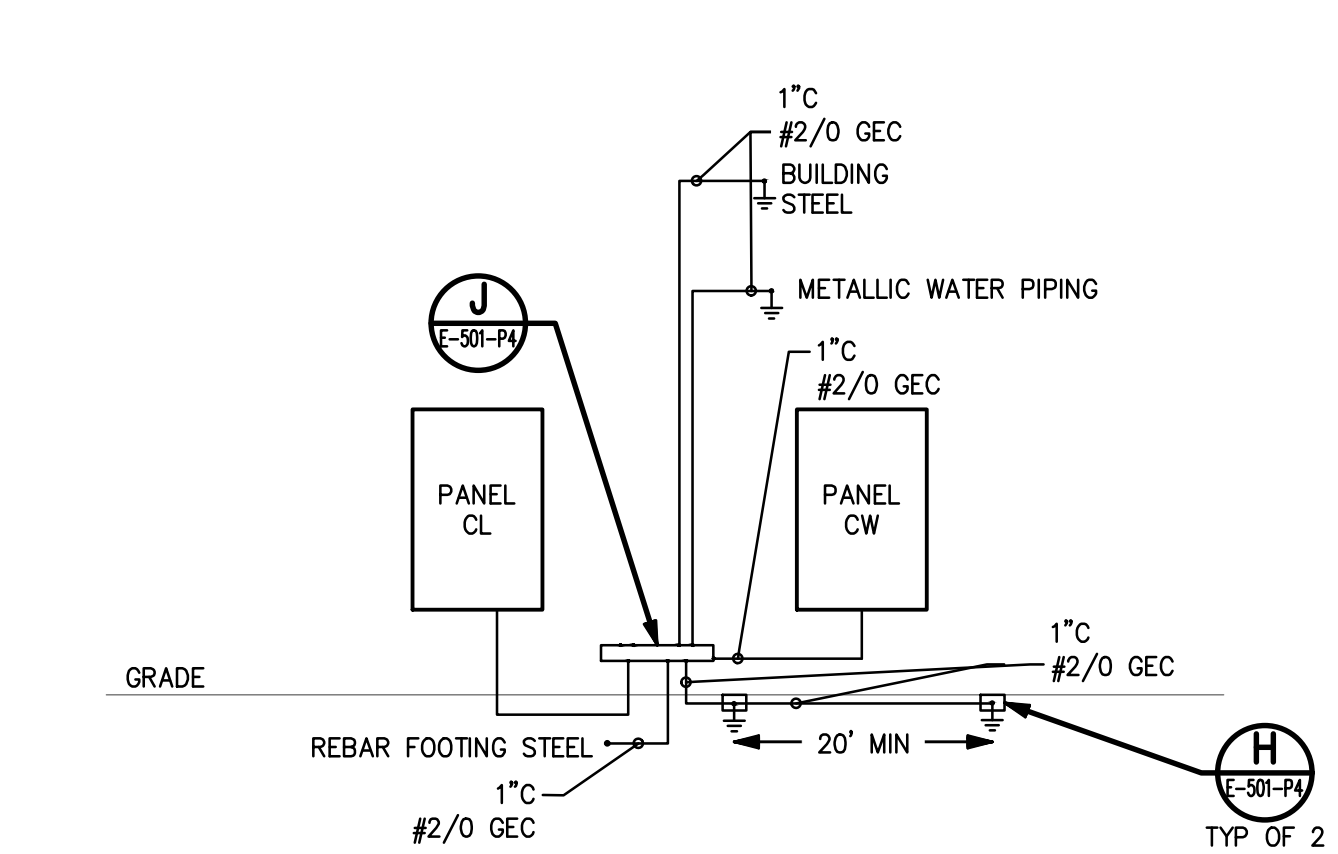
SYMBOL	DESCRIPTION	MOUNTING
 15	HORN/STROBE, 15 CANDELA	CEILING
 15	FIRE ALARM PANEL	WALL
 15	HEAT DETECTOR	CEILING
 15	HORN/STROBE, 15 CANDELA	WALL
	PULL STATION	WALL
	SMOKE DETECTOR	CEILING

DATA & TELEPHONE OUTLET LEGEND

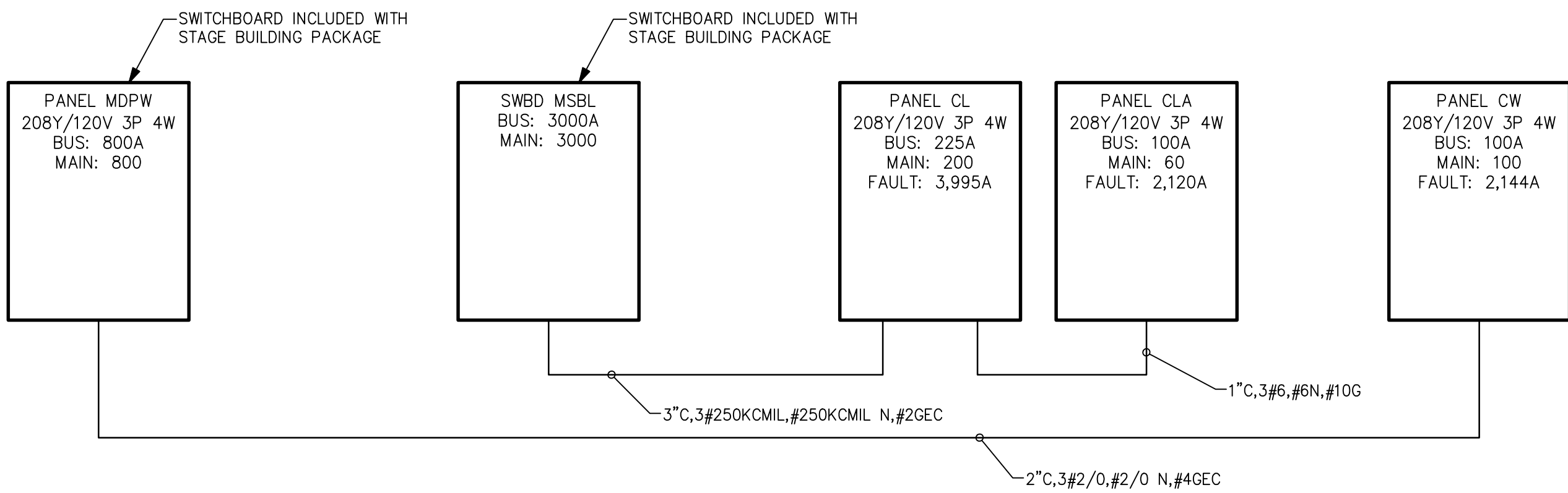
SYMBOL	DESCRIPTION	MOUNTING	NOTES
 AP	DATA OUTLET FOR ACCESS POINT	4" SQUARE BOX MOUNTED 24" ABOVE CEILING	
	DATA / TELEPHONE OUTLET	WALL, 18" AFF UNO; 5" SQUARE, 2.875" DEEP BOX, 64 CUBIC INCHES, WITH CABLE MANAGEMENT POSTS. DESIGN BASIS: STEEL CITY #82181T SERIES	STUB 1" TO 6" ABOVE CEILING
	WALL MOUNTED EQUIPMENT RACK	WALL; TOP AT 70" AFF	
 FA	COMMUNICATIONS OUTLET FOR FIRE ALARM SYSTEM	3/4"C FOR (1) TELEPHONE CABLE 3/4"C FOR (1) TELEPHONE CABLE AND (1) DATA CABLE	ROUTE CONDUITS DIRECTLY INTO FIRE ALARM SYSTEM ENCLOSURE.

SWITCH LEGEND

SYMBOL	DESCRIPTION	NOTES
 D	DIMMER SWITCH	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
 00	OCCUPANCY SENSOR WALL SWITCH, DIMMER; DUAL TECHNOLOGY	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
 01	OCCUPANCY SENSOR WALL SWITCH, SINGLE CKT, DUAL TECHNOLOGY	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
	OCCUPANCY SENSOR, DUAL TECHNOLOGY; CEILING MTD	INCORPORATE POWER PACK FOR CIRCUITRY SWITCHING, SEE WIRING DIAGRAMS
	PHOTOCELL, EXTERIOR; MOUNT ON NORTH FACE OF BLDG, FACING NORTH	
 \$	TOGGLE SWITCH, SINGLE POLE	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO; WHERE SHOWN PAIRED, PROVIDE DUAL LEVEL SWITCHING
 \$ 3P	3-POSITION SWITCH, CENTER OFF	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO












ELECTRICAL GROUNDING SYSTEM RISER DIAGRAM
SCALE: NO SCALE



ELECTRICAL POWER RISER DIAGRAM
SCALE: NO SCALE

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	LAMP	BALLAST	VOLTS	MOUNTING	MANUFACTURER / MODEL	NOTES	CALLOUT
EG		EMERGENCY EGRESS, BATTERY	(2) 4W MR 16 LED	BATTERY	120V 1P 2W	SURFACE	EMEROLITE #COMPACT PREMIER SERIES CHLORIDE #TPU SERIES LIGHTALARMS #COMPACT GRANDE SERIES	CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "EG" ON THE DRAWINGS; ONLY THE SYMBOL IS USED. DESIGN CRITERIA: 50 FT SPACING, UTILIZING 6 FT WIDE PATH, 80/50/20 REFLECTANCES, MAINTAINING 1 FC AVG AND 0.1 FC MINIMUM.	EG
G3		4' GASKETED	(1) 45W LED	LED DRIVER	120V 1P 2W	SURFACE	WILLIAMS #06 SERIES DAYBRITE #V2 SERIES METALUX #4VT SERIES	5300 NOMINAL LUMENS. 3500K COLOR TEMPERATURE. STAINLESS STEEL MOUNTING HARDWARE & LENS CLAMPS.	G3
TH		RECESSED LINEAR	(1) 35W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	AMERLUX #GRUV4-HE-FLG-GRID-A16-PL-7-92-XX-HW-IND-XX-0-10V SELUX #M60 EQUIVALENT LUMENWERX #IVA 2 EQUIVALENT	FROSTED LENS. SEE PLAN FOR OVERALL LENGTH. VERIFY CEILING TYPE WITH ARCHITECT. 92 CRI. OVERLAP TRIM. SEE NOTE 1.	TH
TH-1		RECESSED LINEAR	(1) 35W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	AMERLUX #GRUV4-HE-GB-A16-PL-7-92-XX-HW-IND-XX-0-10V SELUX #M60 EQUIVALENT LUMENWERX #IVA 2 EQUIVALENT	FROSTED LENS. SEE PLAN FOR OVERALL LENGTH. 92 CRI. MUD-FLANGE TRIMLESS. SEE NOTE 1.	TH-1
TK		LINEAR RECESSED	(1) LED	LED DIMMABLE DRIVER	120V 1P 2W	SURFACE	AMERLUX #LIN2.5D-A16-PL-VM-7-92-XX-HW-IND-XX-0-10V SELUX #M125 DIRECT EQUIVALENT LUMENWERX #IVA WET LED EQUIVALENT	FROSTED LENS. COORDINATE FINISH SELECTION WITH ARCHITECT. 92 CRI. COORDINATE MOUNTING HEIGHT WITH ARCHITECT. SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	TK
TM-ALT		6.625" INGROUND UPLIGHT	(1) 15W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	TARGETTI #PLM-10-2M-1.2-30-1E25251DU2521 WE-EF #ETC-120 EQUIVALENT ERCO #TESIS EQUIVALENT	628 NOMINAL LUMENS. 3000K COLOR TEMPERATURE. FLUSH RECESSED IN-GRADE LED ACCENT LIGHT, INTEGRAL 0-10V DIMMABLE DRIVER, STAINLESS STEEL TRIM RING. ANTI-GLARE HALF MOON. GLASS SUCTION. SEE NOTE 1.	TM-ALT
TP		LINEAR RECESSED	(1) LED	LED DIMMABLE DRIVER	120V 1P 2W	WALL	AMERLUX #LIN2.5D-A16-PL-VM-7-92-XX-HW-IND-XX-0-10V COLE LIGHTING #LIGHTRAIL EQUIVALENT WAGNER COMPANIES #LIGHTED RAIL EQUIVALENT	FROSTED LENS. COORDINATE FINISH SELECTION WITH ARCHITECT. 92 CRI. COORDINATE MOUNTING HEIGHT WITH ARCHITECT. SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	TP
TQ		6" DOWNLIGHT	(1) LED	LED DIMMABLE DRIVER	120V 1P 2W	CEILING	REGGIANI #TRYBECA ROUND A.BCOEK.HQ12.12.V.O.MR01.162.XX DMF LIGHTING #DRD55 8" EQUIVALENT USAI #BEVELED 2.2 EQUIVALENT	FLUSH LENS. COORDINATE TRIM FINISH WITH ARCHITECT. OVERLAP TRIM TYPE. SEE NOTE 1.	TQ
TR		SURFACE MOUNTED RGBW LED PANEL	(1) 60W LED	LED DIMMABLE DRIVER	120V 1P 2W	CEILING	MARTIN BY HARMAN #VC-GRD15 TRAXON #64PXLBOARDRGB2.0 NANOMETER #C-1-XX-HO-RGB/3000K-1212-XX-W	CONTRACTOR TO COORDINATE WITH ARCHITECT FOR LOCATION OF REMOTE DMX CONTROL DRIVER. INDICATE REMOTE DRIVER LOCATION ON AS-BUILT MARKUPS. COORDINATE MOUNTING WITH ARCHITECT. SEE NOTE 1.	TR

- NOTES:
1. LIGHTING FIXTURE SELECTION AND LAYOUT WAS DESIGNED BY TILLOTSON DESIGN ASSOCIATES. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT IS THE WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA.
2. COORDINATE FINAL FINISH SELECTION WITH ARCHITECT AND LANDSCAPE ARCHITECT.

PROJECT INFORMATION

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WILMINGTON, NORTH CAROLINA

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Community Services Department
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City of Wilmington Project Code 3CPRK1860

Landscape Architecture = L
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www.hargreavesjonesla.com
NC License #C-513

Architecture = A
SAGE & COOMBE ARCHITECTS
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www.sageandcoombe.com

Acoustic/Theater/AV = AT
OAP/P.C.
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Civil Engineering = C
Structural Engineering = S
Geotechnical Engineering = G
STEWART
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Environmental Engineering = EE
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EAGLE RESOURCES
215 West Moore Street, Southport, NC 28461
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Irrigation = I
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www.clarkirrigationdesign.com

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Electrical Engineering = E
Plumbing Engineering = P
Fire Protection = FP
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Marine Structural Engineering = SM
ANDREW CONSULTING ENGINEERS
3811 Peachtree Avenue, Suite 300, Wilmington, NC 28403
www.andrewengineers.com

Water Fountain Design = WF
DELTA FOUNTAINS
11494 Columbia Park Dr. W., Suite 4, Jacksonville, FL 32258
www.deltafountains.com

Lighting Design = EL
TILLOTSON DESIGN ASSOCIATES
40 Worth Street, Room 703, New York NY 10013
www.tilotsondesign.com

SIGNATURE

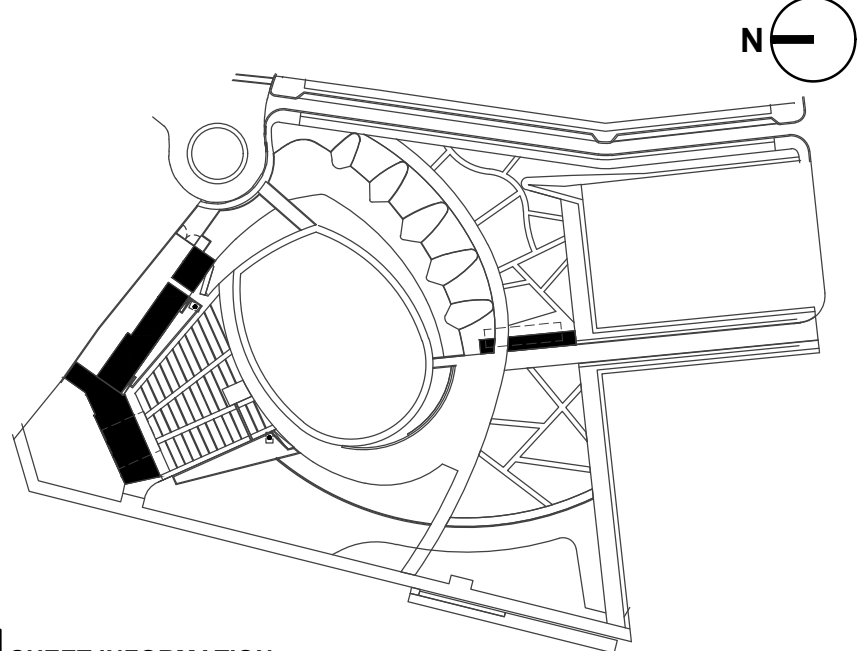
CAPA 17109

PROGRESS DRAWINGS
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS

NO.	DESCRIPTION	DATE
1	30% CONSTRUCTION DOCUMENTS P3 & P4	08/07/2019
2	60% CONSTRUCTION DOCUMENTS P4	07/12/2019
3	95% CONSTRUCTION DOCUMENTS P3 & P4	12/04/2019

KEY MAP



SHEET INFORMATION

Project No.: NWP 1701
Drawn By: MPS
Checked By: MAC
Date: 08/15/2019
Scale: AS NOTED

SHEET TITLE

ELECTRICAL
LEGENDS, SCHEDULES,
NOTES, DETAILS

SHEET NO.

E-001-P4

CL

ROOM: CATERING 100			VOLTS: 208Y/120V 3P 4W			AIC: 10,000					
MOUNTING: SURFACE			BUS AMPS: 225			MAIN BKR: 200					
FED FROM: MSBL			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	SPARE	0			2	20/2	DAHU-1, DHP-1	1.19		
3	20/1	SPARE		0		4				1.19	
5	20/1	REC-GFCI			0.18	6	20/1	REC-ROOF			0.18
7	20/1	REC-GFCI	0.18		0.18	8	20/1	EGRESS, LTG	0.246		
9	20/1	REC-GFCI				10	20/1	SPARE		0	
11	20/1	REC-GFCI			0.18	12	20/1	REC-GFCI			0.18
13	20/1	REC-GFCI	0.18			14	20/1	SPARE	0		
15	20/1	REC		0.18		16	20/1	SPARE		0	
17	20/1	REC-GFCI			0.18	18	20/1	REC-GFCI			0.18
19	20/1	SPARE	0			20	20/1	SPARE	0		
21	20/1	SPARE		0		22	20/1	SPARE		0	
23	20/1	SPARE			0	24	20/1	SPARE			0
25	20/1	SPARE				26	20/1	SPARE		0	
27	20/1	SPARE	0	0		28	20/1	SPARE	0	0	
29	20/1	SPARE			0	30	20/1	SPARE			0
31	20/1	SPARE	0			32	20/1	SPARE	0		
33	20/1	SPARE		0		34	20/1	SPARE		0	
35	20/1	SPARE			0	36	20/1	SPARE			0
37	60/3	PANEL CLA	2.09			38	20/1	SPARE	0		
39				2.23		40	20/1	SPARE		0	
41					2.22	42	20/1	SPARE			0
TOTAL CONNECTED KVA BY PHASE									3.89	3.78	3.3
TOTAL CONNECTED AMPS BY PHASE									34.4	33.5	27.5
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			0.917	1.15	(125%)	CONTINUOUS			1.5	1.88	(125%)
LARGEST MOTOR			2.29	0.572	(25%)	HEATING			4.78	4.78	(100%)
OTHER MOTORS			0	0	(100%)	COOLING			4.78	0	(0%)
RECEPTACLES			3.78	3.78	(50%*10)	NONCONTINUOUS			0	0	(100%)
KITCHEN EQUIP			0	0	(N/A)	DIVERSE			0	0	(N/A)
						METERED DEMAND			0	0	(125%)
						TOTAL KVA			11	12.1	
						BALANCED 3-PHASE AMPS			33.7		

KEYED NOTES:

- (1) (2) 3" STUB-UP FROM LIGHT FIXTURE POLE WITH (2) 2" 3-CELL INNERDUCTS FOR LIVE NATION DATA CABLING. SEE E-101-P1 FOR LIGHT POLE LOCATION.
- (2) 2" STUB-UP FROM HANDHOLE FOR LIVE NATION DATA CABLING. SEE E-101-P1 FOR LIGHT POLE LOCATION.

CLA

ROOM: PRIVATE OFFICE 100			VOLTS: 208Y/120V 3P 4W			AIC: 10,000					
MOUNTING: SURFACE			BUS AMPS: 100			MAIN BKR: 60					
FED FROM: CL			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/2	DAHU-3, DHP-3	1.19			2	20/1	REC	0.18		
3				1.19		4	20/1	SPARE		0	
5	20/1	REC			0.54	6	20/1	REC			0.18
7	20/1	REC	0.54			8	20/1	SPARE	0		
9	20/1	REC		0.36		10	20/1	EGRESS, LTG, LTG-RGBW PANEL		0.671	
11	20/1	SPARE			0	12	20/1	REC-HOT BOX			1.5
13	20/1	SPARE	0			14	20/1	REC	0.18		
15	20/1	SPARE		0		16	20/1	SPARE		0	
17	20/1	SPARE			0	18	20/1	SPARE			0
19	20/1	SPARE	0			20	20/1	SPARE	0		
21	20/1	SPARE		0		22	20/1	SPARE		0	0
23	20/1	SPARE			0	24	20/1	SPARE			0
25	20/1	SPARE	0			26	20/1	SPARE	0		
27	20/1	SPARE		0		28	20/1	SPARE		0	
29	20/1	SPARE			0	30	20/1	SPARE			0
TOTAL CONNECTED KVA BY PHASE									2.09	2.23	2.22
TOTAL CONNECTED AMPS BY PHASE									18.4	19.4	18.5
			CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING			0.671	0.839	(125%)	CONTINUOUS			1.5	1.88	(125%)
LARGEST MOTOR			2.29	0.572	(25%)	HEATING			2.39	2.39	(100%)
OTHER MOTORS			0	0	(100%)	COOLING			2.39	0	(0%)
RECEPTACLES			1.98	1.98	(50%*10)	NONCONTINUOUS			0	0	(100%)
KITCHEN EQUIP			0	0	(N/A)	DIVERSE			0	0	(N/A)
						METERED DEMAND			0	0	(125%)
						TOTAL KVA			6.54	7.65	
						BALANCED 3-PHASE AMPS			21.2		

PHASE 4 - PARK SUPPORT EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	WIRE CALLOUT
DAHU-1	208V 2P 2W	CL-2,4	3/4"C,2#12, #12G
DAHU-2	208V 2P 2W	CW-6,8	3/4"C,2#12, #12G
DAHU-3	208V 2P 2W	CLA-1,3	3/4"C,2#12, #12G
DHP-1	208V 2P 2W	CL-2,4	3/4"C,2#12, #12G
DHP-2	208V 2P 2W	CW-6,8	3/4"C,2#12, #12G
DHP-3	208V 2P 2W	CLA-1,3	3/4"C,2#12, #12G
EBB-1	208V 2P 2W	CW-2,4	3/4"C,2#12, #12G
EFH-1	208V 3P 3W	CW-10,12,14	3/4"C,3#12, #12G
EFH-2	208V 3P 3W	CW-11,13,15	3/4"C,3#12, #12G
OVERHEAD DOOR	208V 2P 2W	CLA-11,13	3/4"C,2#12, #12G

CW

ROOM: MECHANICAL 103			VOLTS: 208Y/120V 3P 4W			AIC: 10,000					
MOUNTING: SURFACE			BUS AMPS: 100			MAIN BKR: 100					
FED FROM: MDPW			NEUTRAL: 100%			LUGS: STANDARD					
NOTE:											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	20/1	(#) FIRE ALARM PANEL	1			2	20/2	EBB-1	0.625		
3	20/1	REC		0.54		4				0.625	
5	20/1	REC			0.36	6	20/2	DAHU-2, DHP-2			1.19
7	20/1	REC	0.18			8			1.19		
9	20/1	FAN F-1		0.15		10	20/3	EFH-1		1.67	
11	20/3	EFH-2			1.67	12				1.67	1.67
13			1.67			14			1.67		
15				1.67		16	20/1	REC-ROOF		0.18	
17	20/1	EGRESS, LTG			1.09	18	20/1	REC-HOT BOX			1.5
19	20/1	LTG	0.28			20	20/1	SPARE	0		
21	20/1	LTG CONTROL		0.1		22	20/1	SPARE		0	
23	20/1	SPARE			0	24	20/1	SPARE		0	0
25	20/1	SPARE	0			26	20/1	SPARE			
27	20/1	SPARE		0		28	20/1	SPARE	0	0	
29	20/1	SPARE			0	30	20/1	SPARE			0
31	20/1	SPARE	0			32	20/1	SPARE	0		
33	20/1	SPARE				34	20/1	SPARE		0	
35	20/1	SPARE		0	0.36	36	20/1	SPARE			0
37	20/1	SPARE	0			38	20/1	SPARE	0		
39	20/1	SPARE			0	40	20/1	SPARE		0	0
41	20/1	SPARE			0	42	20/1	SPARE			0
TOTAL CONNECTED KVA BY PHASE									6.61	4.93	7.48
TOTAL CONNECTED AMPS BY PHASE									55.1	41.2	62.5
			CONN KVA		CALC KVA				CONN KVA	CALC KVA	
LIGHTING			1.47	1.84	(125%)	CONTINUOUS			1.5	1.88	(125%)
LARGEST MOTOR			2.29	0.572	(25%)	HEATING			13.6	13.6	(100%)
OTHER MOTORS			0.15	0.15	(100%)	COOLING			2.39	0	(0%)
RECEPTACLES			1.26	1.26	(50%*10)	NONCONTINUOUS			1	1	(100%)
KITCHEN EQUIP			0	0	(N/A)	DIVERSE			0	0	(N/A)
						METERED DEMAND			0	0	(125%)
TOTAL KVA									19	20.3	
BALANCED 3-PHASE AMPS									56.4		
(# PROVIDE C/B LOCK											

(H) PROVIDE C/B LOCK

NOTES:

1. LIGHTING FIXTURE SELECTION AND LAYOUT WAS DESIGNED BY TILLOTSON DESIGN ASSOCIATES. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT IS THE WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH FIXTURE TYPES THIS NOTE APPLIES TO.

PROJECT INFORMATION

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WILMINGTON, NORTH CAROLINACITY OF WILMINGTON
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160 Varick Street, Suite 204, New York, NY 10014
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







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LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	LAMP	BALLAST	VOLTS	MOUNTING	MANUFACTURER / MODEL	NOTES	CALLOUT	QUANTITY
EG		EMERGENCY EGRESS, BATTERY	(2) 4W MR 16 LED	BATTERY	120V 1P 2W	SURFACE	EMERGLITE #COMPACT PREMIER SERIES CHLORIDE #1PU SERIES LIGHTALARMS #COMPACT GRANDE SERIES	CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "EG" ON THE DRAWINGS; ONLY THE SYMBOL IS USED. DESIGN CRITERIA: 50 FT SPACING, UTILIZING 6 FT WIDE PATH, 80/50/20 REFLECTANCES, MAINTAINING 1 FC AVG AND 0.1 FC MINIMUM.	EG	3
G3		4' GASKETED	(1) 45W LED	LED DRIVER	120V 1P 2W	SURFACE	WILLIAMS #96 SERIES DAYBRITE #V2 SERIES METALUX #MYT SERIES	5300 NOMINAL LUMENS. 3500K COLOR TEMPERATURE. STAINLESS STEEL MOUNTING HARDWARE & LENS CLAMPS.	G3	2
TH		RECESSED LINEAR	(1) 35W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	AMERLUX #GRUV4-HE-FLG-GRID-A16-PL-7-92-XX-HW-IND-XX-0-10V SELUX #M60 EQUIVALENT LUMENWERX #VIA 2 EQUIVALENT	FROSTED LENS. SEE PLAN FOR OVERALL LENGTH. VERIFY CEILING TYPE WITH ARCHITECT. 92 CRI. OVERLAP TRIM. SEE NOTE 1.	TH	14
TH-1		RECESSED LINEAR	(1) 35W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	AMERLUX #GRUV4-HE-GB-A16-PL-7-92-XX-HW-IND-XX-0-10V SELUX #M60 EQUIVALENT LUMENWERX #VIA 2 EQUIVALENT	FROSTED LENS. SEE PLAN FOR OVERALL LENGTH. 92 CRI. MUD-FLANGE TRIMLESS. SEE NOTE 1.	TH-1	2
TK		LINEAR RECESSED	(1) LED	LED DIMMABLE DRIVER	120V 1P 2W	SURFACE	AMERLUX #LIN2.5D-A16-PL-SM-7-92-XX-HW-IND-XX-0-10V SELUX #M125 DIRECT EQUIVALENT LUMENWERX #VIA WET LED EQUIVALENT	FROSTED LENS. COORDINATE FINISH SELECTION WITH ARCHITECT. 92 CRI. COORDINATE MOUNTING HEIGHT WITH ARCHITECT. SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	TK	5
TM-ALT		6.625" INGROUND UPLIGHT	(1) 15W LED	LED DIMMABLE DRIVER	120V 1P 2W	RECESSED	TARGETTI #KPLM-10-ZM-L2-30-1E25251DU2521 WE-EF #ETC-120 EQUIVALENT ERCO #TESIS EQUIVALENT	628 NOMINAL LUMENS. 3000K COLOR TEMPERATURE. FLUSH RECESSED IN-GRADE LED ACCENT LIGHT, INTEGRAL 0-10V DIMMABLE DRIVER, STAINLESS STEEL TRIM RING. ANTI-GLARE HALF MOON. GLASS SUCTION. SEE NOTE 1.	TM-ALT	14
TP		LINEAR RECESSED	(1) LED	LED DIMMABLE DRIVER	120V 1P 2W	WALL	AMERLUX #LIN2.5D-A16-PL-WM-7-92-XX-HW-IND-XX-0-10V COLE LIGHTING #LIGHTRAIL EQUIVALENT WAGNER COMPANIES #LIGHTED RAIL EQUIVALENT	FROSTED LENS. COORDINATE FINISH SELECTION WITH ARCHITECT. 92 CRI. COORDINATE MOUNTING HEIGHT WITH ARCHITECT. SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	TP	8
TQ		6" DOWNLIGHT	(1) LED	LED DIMMABLE DRIVER	120V 1P 2W	CEILING	REGGIANI #TRYBECA ROUND A.B006K.HQ12.12.V.O.MR01.162.XX DMF LIGHTING #ORDSS 8\" data-bbox="161 488 171 498"/>	FLUSH LENS. COORDINATE TRIM FINISH WITH ARCHITECT. OVERLAP TRIM TYPE. SEE NOTE 1.	TQ	1
TR		SURFACE MOUNTED RGBW LED PANEL	(1) 60W LED	LED DIMMABLE DRIVER	120V 1P 2W	CEILING	MARTIN BY HARMAN #VC-GRD15 TRAXON #64PXLBOARDRGB2.0 NANOMETER #C-1-XX-HO-RGB/3000K-1212-XX-W	CONTRACTOR TO COORDINATE WITH ARCHITECT LOCATION OF REMOTE DMX CONTROL DRIVER. INDICATE REMOTE DRIVER LOCATION ON AS-BUILT MARKUPS. COORDINATE MOUNTING WITH ARCHITECT. SEE NOTE 1.	TR	3

NOTES:
1. LIGHTING FIXTURE SELECTION AND LAYOUT WAS DESIGNED BY TILLOTSON DESIGN ASSOCIATES. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT IS THE WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA.
2. COORDINATE FINAL FINISH SELECTION WITH ARCHITECT AND LANDSCAPE ARCHITECT.

PROJECT INFORMATION

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Structural Engineering= S
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SIGNATURE

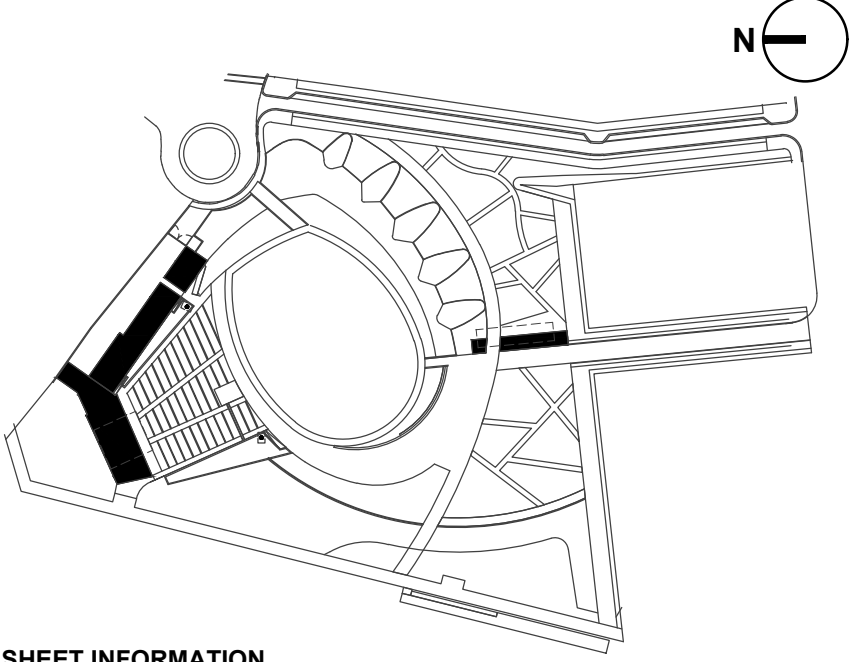
CAPA 17109

PROGRESS DRAWINGS
DO NOT USE FOR CONSTRUCTION

ISSUE/REVISIONS

NO.	DESCRIPTION	DATE
1	30% CONSTRUCTION DOCUMENTS P3 & P4	06/07/2019
2	60% CONSTRUCTION DOCUMENTS P3	07/26/2019
3	95% CONSTRUCTION DOCUMENTS P3 & P4	12/04/2019

KEY MAP



SHEET INFORMATION

Project No.: NWP 1701
Drawn By: MPS
Checked By: MAC
Date: 12/04/2019
Scale: As indicated

SHEET TITLE

ELECTRICAL
LUMINAIRE AND DIMMER
SCHEDULE

SHEET NO.

E-300-P3

