NEWBURGH ENLARGED CITY SCHOOL DISTRICT NEW CTE BUILDING

201 Fullerton Ave, Newburgh, NY 12550 **ISSUED FOR BID:** 4/15/2024

CSARCH - ARCHITECTS & M.E. ENGINEERS ME ENGINEERING - PLUMBING & TECHNOLOGY ENGINEERS PASSERO ASSOCIATES - CIVIL & STRUCTURAL ENGINEERS FOOD SERVICE DESIGN STUDIOS - FOOD SERVICE DESIGNER AVL DESIGNS, INC. - AUDIO VISUAL JACOBS PROJECT MANAGEMENT CO. - PROJECT MANAGER

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER: 44-16-00-01-0-053-001

THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

CSArch PROJECT NO. 108-2303



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ע ורי	SIGN SCHEPOLE AND TIFES
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DRAWING LIST - VOLUME 3

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FS404

P111

FS420 EXHAUST HOOD DETAILS FS421 EXHAUST HOOD DETAILS FS422 EXHAUST HOOD DETAILS FS423 EXHAUST HOOD DETAILS FS424 EXHAUST HOOD DETAIL FS425 EXHAUST HOOD DETAILS FS426 EXHAUST HOOD DETAILS FS427 EXHAUST HOOD DETAILS FS428 EXHAUST HOOD DETAILS FS429 EXHAUST HOOD DETAILS

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FIRE PROTECTION DRAWINGS FP111 PARTIAL FIRST FLOOR PLAN - AREA 1 - FIRE PROTECTION FP112 PARTIAL FIRST FLOOR PLAN - AREA 2 - FIRE PROTECTION FP113 PARTIAL FIRST FLOOR PLAN - AREA 3 - FIRE PROTECTION FP121 PARTIAL SECOND FLOOR PLAN - AREA 1 - FIRE PROTECTION FP122 PARTIAL SECOND FLOOR PLAN - AREA 2 - FIRE PROTECTION FP123 PARTIAL SECOND FLOOR PLAN - AREA 3 - FIRE PROTECTION FP131 PARTIAL THIRD FLOOR PLAN - AREA 3 - FIRE PROTECTION PLUMBING GENERAL DRAWINGS P001 PLUMBING NOTES, SYMBOLS, AND SCHEDULES

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PIPING AND INSTRUMENTATION DIAGRAM GENERAL DRAWING DJ000 GENERAL NOTES, LEGENDS AND ABBREVIATIONS

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M311 ENLARGED FIRST FLOOR PLANS M321 ENLARGED SECOND FLOOR PLANS

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ELECTRICAL DRAWINGS

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AUDIO VISUAL DRAWINGS

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TL301	STUDIO LIGHTING SYSTEM LOWER LEVEL CONTROL PLAN - AREA '3'
TL302	STUDIO LIGHTING SYSTEM UPPER LEVEL CONTROL PLAN - AREA '3'
TL303	STUDIO LIGHTING SYSTEM FIXTURE PLAN - AREA '3'
TL304	STUDIO LIGHTING SYSTEM HOUSELIGHTING FIXTURE PLAN - AREA '3'
TL310	PHOTO LAB LIGHTING SYSTEM LOWER LEVEL CONTROL PLAN - AREA '3'
TL311	PHOTO LAB LIGHTING SYSTEM UPPER LEVEL CONTROL PLAN - AREA '3'
TL312	PHOTO LAB LIGHTING SYSTEM FIXTURE PLAN - AREA '3'
TL313	PHOTO LAB LIGHTING SYSTEM HOUSELIGHTING FIXTURE PLAN - AREA '3'
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TL504	STUDIO & PHOTO LAB LIGHTING SYSTEMS DETAILS - AREA '3'
TL505	STUDIO & PHOTO LAB LIGHTING SYSTEMS DETAILS - AREA '3'
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TR313	PHOTO LAB RIGGING SYSTEM UPPER LEVEL PIPE GRID PLAN - AREA '3'
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TR504	STUDIO & PHOTO LAB RIGGING SYSTEM DETAILS - AREA '3'
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TR506	STUDIO & PHOTO LAB RIGGING SYSTEM DETAILS - AREA '3'
TR507	STUDIO & PHOTO LAB RIGGING SYSTEM DETAILS - AREA '3'
TR508	STUDIO & PHOTO LAB RIGGING SYSTEM DETAILS - AREA '3'
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TS302	TV STUDIO ELEVATIONS
TS303	GYMNASIUMS LOWER LEVEL SOUND PLAN
TS304	GYMNASIUMS UPPER LEVEL SOUND PLAN
TS305	GYMNASIUM SPEAKER AIMING PLAN & SECTIONS
TS401	TV STUDIO SYSTEMS SINGLE LINE DIAGRAM
TS402	GYMNASIUM SOUND SYSTEM SINGLE LINE DIAGRAM
TS501	TV STUDIO SYSTEM DETAILS
TS502	GYMNASIUM SYSTEM DETAILS
TS601	TV STUDIO & GYMNASIUM DRAWING NOTES & SYMBOLS KEYS







ABBREVIATIONS			
A	AMPERE	KV	KILOVOLT
AV	AUDIO/VISUAL	KVA	KILOVOLT-AMPERE
AC	ABOVE CEILING; ABOVE COUNTER; ALTERNATING CURRENT	KW	KILOWATT
AS/AF	AMPERE RATING OF SWITCH/FUSE	KWH	KILOWATT-HOUR
AFF	ABOVE FINISHED FLOOR		
AFG	ABOVE FINISHED GRADE	LAN	LOCAL AREA NETWORK
AHJ	AUTHORITY HAVING JURISDICTION	LTG	LIGHTING
AIC	AMPERE INTERRUPTING CAPACITY		
AL	ALUMINUM	мсв	MAIN CIRCUIT BREAKER
ALT	ALTERNATE	MCC	MOTOR CONTROL CENTER
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
AF/AT	AMPERE RATING OF CIRCUIT BREAKER FRAME/TRIP	MLO	MAIN LUG ONLY
ATS	AUTOMATIC TRANSFER SWITCH	мн	MANHOLE: MOUNTING HEIGHT
ΔUΧ			
AWG	AMERICAN WIRE GALIGE	N	NEUTRAL
		NA	NOT APPLICABLE
BAS	BUILDING AUTOMATION SYSTEM	NC	NORMALLY CLOSED: NEW CONNECTION
BATS	BYPASS AUTOMATIC TRANSFER SWITCH	NF	NEW LOCATION FOR EXISTING ITEM
BC	BARE COPPER	NEC	
BEC	BELOW FINISHED CELLING	NE	NON-FUSED
BFG	BELOW FINISHED GRADE	NIC	NOT IN CONTRACT
BFI	BELOW FLOOP LEVEL	NO	
RIDC	BILLOIN FLOOR LEVEL	NTS	NOT TO SCALE
RMS	BUILDING MANAGEMENT SYSTEM	NI J	NOT TO SUALL
DNIS DVD	BUILDING MANAGEMENT SISTEM	ОП	
סוגול	UNLANLN		
C	CONDUIT	00	
		Р	
		۲ •	
CB		ra DD	PURE DOX BROW DITTON
CCIV	CLOSED CIRCUIT TELEVISION	РВ	PULL BOX; PUSH BUITON
СКТ	CIRCUIT	PC	PHOTOCELL
CLG	CEILING	PDU	POWER DISTRIBUTION UNIT
CORR	CORRIDOR	PF	POWER FACTOR
СРТ	CONTROL POWER TRANSFORMER	PH	PHASE
СТ	CURRENT TRANSFORMER	PNL	PANEL
CTRL	CONTROL	PT	POTENTIAL TRANSFORMER
CU	COPPER	PWR	POWER
D	DELTA CONNECTION	RCPT	RECEPTACLE
DC	DIRECT CURRENT	RE	RELOCATE EXISTING ITEM
DIA	DIAMETER		
DN	DOWN	SCH	SCHEDULE
DPDT	DOUBLE POLE DOUBLE THROW	SFL	SUB-FED LUGS
DPST	DOUBLE POLE SINGLE THROW	SHT	SHEET
DWG	DRAWING	SPD	SURGE PROTECTIVE DEVICE
		SPEC	SPECIFICATION
ECB	ENCLOSED CIRCUIT BREAKER	SPKR	SPEAKER
EFF	EFFICIENCY	SS	SAFETY SWITCH; START-STOP
EGC	EQUIPMENT GROUND CONDUCTOR	ST	SHUNT TRIP
ELEC	ELECTRIC/ELECTRICAL	SW	SWITCH
ELEV	ELEVATOR	SWBD	SWITCHBOARD
ELU	EMERGENCY LIGHTING UNIT	SWGR	SWITCHGEAR
EM	EMERGENCY		
EMI	ELECTROMAGNETIC INTERFERENCE	тс	TIME CLOCK
EPO	EMERGENCY POWFR OFF	TFI	TELEPHONE: TELECOM
EOUIP	EQUIPMENT	TS	TIME SWITCH
EXR	EXISTING TO REMAIN	TV	TELEVISION
		TYP	TYPICAL
F۵	FIRE ALARM		
FC			
	FFEDER		
	FILL LAN ANDEDES		
	FULL LUAD AMFERES		
r LK FSS	FLOUR	022	UNINIERRUFTIBLE FUWER SUPPLY
r 22	LOSED SALELI SMIICH	V	VOLT
<u>^</u>	CROUND	V \/ A	
6			
GEC	GROUNDING ELECTRODE CONDUCTOR		
GECI	GROUND FAULT CIRCUIT INTERRUPTER	VED	VARIABLE FREQUENCY DRIVE
GFP	GROUND FAULT PROTECTION	۲ ۲	VAPOR PROOF
GEN	GENERATOR		
GP	GENERAL PURPOSE (NON-HAZARDOUS)	W	WIRE; WATT
		W/	WITH
HGT	HEIGHT	WP	WEATHERPROOF
HH	HANDHOLE		
HOA	HAND OFF AUTOMATIC	XFMR	TRANSFORMER
HP	HORSEPOWER	XP	EXPLOSION PROOF
IG	ISOLATED GROUND	Y	WYE CONNECTION



TYPICAL MOUNTING HEIGHT DETAIL EG000 NTS

GENERAL		
	PROPOSED WORK (THICK LINE)	
	EXISTING (HALFTONE, THIN LINE)	
	DEMOLITION WORK (DASHED, THICK LINE)	
#	KEY NOTE, NUMBER INSIDE REFERS TO MATCHING KEY NOTE	
#	TAG, LETTER & NUMBER INSIDE REFERS TO MATCHING SCHEDULE	
# XXXX	DETAIL CALLOUT	

RACEWAYS		
	CONDUIT	
	CONDUIT BELOW GRADE OR EMBEDDED WITHIN SLAB	
o	CONDUIT UP	
•	CONDUIT DOWN	
PB	PULL BOX	
HH	HAND HOLE	
$\frac{LP-1}{1.3.5}$	HOMERUN BACK TO PANEL (PANEL AND CIRCUITS INDICATED)	

WIRING DEVICE		
P	DUPLEX RECEPTACLE, 125V, WALL MOUNTED, SUBSCRIPT DENOTES: WP - WEATHER PROOF AC - ABOVE COUNTER G - GROUND FAULT CIRCUIT INTERRUPTER # - CIRCUIT NUMBER M - MONITOR RECEPTACLE (COORDINATE HGT & BOX WITH T DWGS)	
\square	DUPLEX RECEPTACLE, 125V, DEDICATED, WALL MOUNTED	
ŧ	DOUBLE DUPLEX RECEPTACLE, 125V, DEDICATED, WALL MOUNTED	
Ŷ	SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED, WALL MOUNTED	
	CONNECTION TO ELECTRIFIED FURNITURE SYSTEM, WALL MOUNTED	
\bigcirc	DUPLEX RECEPTACLE, 125V, IN CEILING	
\oplus	DOUBLE DUPLEX RECEPTACLE, 125V, DEDICATED, IN CEILING	
\bigotimes	SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED, IN CEILING	
\square	DUPLEX RECEPTACLE, 125V, IN FLOOR BOX	
\bigoplus	DOUBLE DUPLEX RECEPTACLE, 125V, IN FLOOR BOX	
\bigcirc	SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED, IN FLOOR BOX	
$\textcircled{\bullet}$	CONNECTION TO ELECTRIFIED FURNITURE SYSTEM, IN FLOOR BOX	
J	JUNCTION BOX, IN CEILING	
$\vdash \hspace{-1.5mm} \bigcup$	JUNCTION BOX, IN WALL	
CR	CORD REEL	
DC	DROP CORD	
	EMERGENCY POWER OFF	

	LIGHTING		
X 	TYPICAL LIGHTING FIXTURE, SUBSCRIPT DENOTES: X - FIXTURE DESIGNATION # - CIRCUIT a - SWITCH CONTROL EM - EMERGENCY LINE VOLTAGE FROM GENERATOR DS - FIXTURE CONTROLLED BY LOCAL DAYLIGHT SENSOR		
HOL	EXIT SIGN, WALL MOUNTED, ILLUMINATED FACE INDICATED BY SHADING, ARROW INDICATES DIRECTIONAL ARROW REQUIRED		
\bigotimes ,	EXIT SIGN, CEILING MOUNTED, ILLUMINATED FACE INDICATED BY SHADING, ARROW INDICATES DIRECTIONAL ARROW REQUIRED		
DS	DAYLIGHT SENSOR, CEILING MOUNTED		
<u>(0S)</u>	OCCUPANCY SENSOR, CEILING MOUNTED		
VS	VACANCY SENSOR, CEILING MOUNTED		
\$	TOGGLE SWITCH, SUBSCRIPT DENOTES: LV – LOW VOLTAGE SWITCH(ES) – SEE LIGHTING CONTROL SEQUENCE OF OPERATION FOR FURTHER DETAILS K – KEY SWITCH OS – OCCUPANCY SENSOR WALL SWITCH a – LOWER CASE LETTER DENOTES SWITCH CONTROL		

POWER	
	SURFACE MOUNTED PANELBOARD, SIZE APPROXIMATELY AS SHOWN
	RECESSED PANELBOARD, SIZE APPROXIMATELY AS SHOWN
Т	TRANSFORMER, SIZE APPROXIMATELY AS SHOWN
	DISCONNECT SWITCH
	DISCONNECT SWITCH WITH FUSE
VFD	VARIABLE FREQUENCY DRIVE
VFD	VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT
\$	TOGGLE SWITCH, SUBSCRIPT DENOTES: M — MOTOR RATED TOGGLE SWITCH
GB	GROUND BUS BAR

MOUNTING HEIGHTS NOTED ARE STANDARD, IF SPECIFIC MOUNTING HEIGHTS ARE NOT NOTED ON THE PLANS OR IN THE SPECIFICATIONS.





	SHEET N
Α.	UNLESS OTHERWISE NOTED LIGHTING CIRCUITS SHALL 1"C – 2#10,1#10G.
В.	SEE SITE CIVIL PLANS FOR FIXTURE SCHEDULE AND DI
С.	ALL SITE LIGHTING IS TO E PHOTOSENSOR WITH A TIME PHOTOSENSOR AT ROOF OF COORDINATE LOCATION IN- RELATED CONTROL DEVICES PANELBOARD SERVING THE
	KEY NO
ES1	NEW UTILITY-OWNED POLE. HUDSON FOR EXACT LOCAT REQUIREMENTS FOR RELATE CABLING TO MAIN TRANSFO UTILITY.
ES2	PROVIDE A 2-SECTION HAN VEHICLE CHARGING STATION ON-SITE WITH OWNER PRIO
ES3	PROVIDE A 2-SECTION HAN BUILDING SIGNAGE. COORDIN WITH OWNER PRIOR TO INS
ES4	PROVIDE (2) EMPTY 2"C W AND CAP CONDUIT WITHIN LOCATION INDICATED, AND FUTURE USE.
ES5	EXISTING UTILITY-OWNED P CENTRAL HUDSON FOR EXA INSTALLATION REQUIREMENT COORDINATE WITH TECHNOL DETAILS.
ES6	PROVIDE (2) 4"C W/ PULL UTILITY-OWNED POLE AND TRANSFORMER. COORDINATE ROUTING. UTILITY TO PROVI
ES7	PROVIDE (2) 3"C W/ PULL UTILITY-OWNED POLE AND THE SECOND FLOOR. COORI DRAWINGS FOR FIBER DETA
ES8	FLAGPOLE LIGHTING (TYPICA FIXTURES WITH ON/OFF CO OTHER SITE LIGHTING FIXTU

OTES , ALL UNDERGROUND BE FED WITH R EXTERIOR LIGHTING ETAILS. BE CONTROLLED VIA A ED OVERRIDE. PROVIDE F BUILDING FACING NORTH, FIELD. PROVIDE OTHER S ADJACENT TO SITE LIGHTING (LRC-1). OTES COORDINATE WITH CENTRAL	40 Beaver St. · Albany · New York 12207-1511 518 · 463 · 8068 www.csarchpc.com
D CONDUIT. PRIMARY RMER TO BE INSTALLED BY ND HOLE FOR FUTURE N. COORDINATE LOCATION OR TO INSTALLATION. ND HOLE FOR FUTURE NATE LOCATION ON-SITE STALLATION. TH PULL CORDS. STUB UP THE BUILDING AT THE LABEL CONDUIT FOR ITS OLE. COORDINATE WITH CT LOCATION AND S FOR RELATED CONDUIT. .OGY DRAWINGS FOR FIBER CORD BETWEEN UTILITY-OWNED WITH UTILITY FOR IDE WIRING. CORD BETWEEN MDF ROOM LOCATED ON DINATE WITH TECHNOLOGY ILS. AL OF THREE). PROVIDE ONTROL INDEPENDENT OF JRES.	DISTRICT
	NEWBURGH ENLARGED CITY SCHOOL NEW CTE BUILDING
	Bojet Tite FOF NEW LONK * HUNCH FOF NEW LO
	Image: state stat
	ELECTRICAL SITE PLAN Sheet No. CTE ES100





CONTINUATION ON DRAWING ES100





	FIELD COORDINATE ROUTING BRANCH CIRCUITS WITH ALL SPACES ARE OPEN CEILING, ROUTING WITH COORDINATED INSTALLATION.
	ALL PENETRATIONS THROUGH FLOORS SHALL BE PROPERLY
	COORDINATE ALL RECEPTACLE ARCHITECTURAL CASEWORK A
	REFER TO E701 FOR POWER SCHEDULES.
•	REFER TO E900 SERIES DRAW AND PANELBOARD SCHEDULES
	KEY NOT
EP1	KEY NOT FLUSHOMETER. COORDINATE W WITH PLUMBING DRAWINGS.
EP1 EP2	KEY NOT FLUSHOMETER. COORDINATE W WITH PLUMBING DRAWINGS. COORDINATE INSTALLATION OF FIXTURE WITH PLUMBING DRAV INSTALLATION MUST BE COMP EASE OF ACCESSIBILITY.
EP1 EP2	KEY NOT FLUSHOMETER. COORDINATE W WITH PLUMBING DRAWINGS. COORDINATE INSTALLATION OF FIXTURE WITH PLUMBING DRAW INSTALLATION MUST BE COMP EASE OF ACCESSIBILITY. FIRE SHUTTER. COORDINATE W DRAWING FOR CONTROL REQU CONDUIT, CABLING, AND/OR E AND CONNECT TO LOCAL SMO





DATE DESCRIPTION Drawn By: Checked By: Proj. #: 44-16-00-01-0-053-001 CSArch Proj. #: 108-2303 04/15/2024 Issued for Bid: Sheet Title FIRST FLOOR POWER PLAN -AREA '3' Sheet No. CTE E113 CONSTRUCTION DOCUMENTS

EXPIRES 5/31/2026

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A2 X1 0 EM EM	$\begin{array}{c} V \\ 10 \\ H \\ EM \\ \hline 7 \\ \hline 7 \\ \hline 10 \\ $	A2 A2 CORRIDOR C204 A2	$A2 \xrightarrow{11} EM \xrightarrow{A2} 7 \xrightarrow{A2} 11$	<u>A2</u> <u>A2</u> <u>A2</u> EM 7 7 11	$\begin{array}{c c} A2 \\ \hline \\ EM \\ \hline \\ $
	F1 =	$1 \qquad F1 \qquad 5 \qquad F1 \qquad PH2-2 \qquad PH$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	F1 6 F1 11 F1 6 F1 6 F1 6 F1 6 F1 6 6 F1 6 F1 6 6 F1 6 F1 6 6	$\begin{array}{c c} F1 & 6 & F1 \\ \hline F1 & F1 \\ \hline F1 & 11 \\ \hline EM \end{array}$
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A1 2 2		2 A1 2 A1 2 CLASSROOM	A1 3 SCIENCE Image: ClassRoom LSH1-2		
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<u>A2</u>	12 ¹² EM A	2 <u>A2</u> 12 EM	<u>A2</u>	$\begin{array}{c} \underline{A2} \\ \underline{A2} \\ \underline{EM} \\ 2 \end{array} \end{array} \xrightarrow{\begin{array}{c} \underline{LSH1-2} \\ 12 \\ \underline{A2} \\ 2 \end{array}} 12^{\textcircled{b}}$
	A1	H3-1 3 LV\$ \$LV A1 6	\$OS OS \$ V3 V3 2 STORAGE 315 307	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
3	A1 3			
	VIDEO PRODUCTION LAB 305	A1	5 5 COMPUTER CLASSROOM 306 0 0 05 0	A1 COMPUTER A1 A1
	A1	A1	A1 A1 5 5 A1 A1	
3	DS 3			

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E313 CONSTRUCTION DOCUMENTS

esk Docs://NECSD - New CTE Bldg/108-2303 NECSD CTE - MEP.rvt

E321 SECOND FLOOR UTILITY PLAN - AREA '1'

SHEET NOTES

- ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.
- COORDINATE ALL RECEPTACLE LOCATIONS WITH ARCHITECTURAL CASEWORK AND FURNITURE PLANS.
- REFER TO E701 FOR POWER RISERS AND WIRING SCHEDULES.
- REFER TO E900 SERIES DRAWINGS FOR EQUIPMENT AND PANELBOARD SCHEDULES.

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FLOORS SHALL BE PROPERLY FIRE-STOPPED. COORDINATE ALL RECEPTACLE LOCATIONS WITH ARCHITECTURAL CASEWORK AND FURNITURE PLANS. REFER TO E701 FOR POWER RISERS AND WIRING SCHEDULES. REFER TO E900 SERIES DRAWINGS FOR EQUIPMENT | E.

AND PANELBOARD SCHEDULES.

- ALL PENETRATIONS THROUGH FIRE RATED WALLS AND B.
- FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

- SHEET NOTES
- THIRD FLOOR UTILITY PLAN AREA '3' E333 ^{1/8" = 1'-0"}

	DIMENSIONS OF POURED OR PRECAST CONCRETE PADS											
	TRA	ANSFORM	/IER RATING		DIMENSIONS IN INCHES							
TYPE	KV	PHASE	KVA	Α	В	С	D	E	F	G	WEIGHT	SS#
UTIL.	15/35	1	25-167*	50	50	24	12	7	13	13	750	262-803-00
UTIL.	15	3	75-750**	78	72	48	18	10	17	13	2700	262-777-00
UTIL.	15	3	750-2500	89	75	50	17	14	21	18	3100	262-781-00
UTIL.	35	3	75-1500	89	75	50	17	14	21	18	3100	262-781-00
UTIL.	35	3	2500	96	96	60	24	12	24	12	4300	262-782-00
STEP		1/3	250-500	76	71	30	15	22.5	23	23	2600	262-790-00
STEP		3	500-1500	95	89	43	17	20	26	26	4100	262-791-00
STEP		3	1500-2500	96	96	62	17	20	17	17	4300	262-792-00
STEP		3	3750-5000	120	120	80	24	20	20	20	6500	262-793-00

2. 4000 PSI CONCRETE AT 28 DAYS

THREE PHASE UTILITY TRANSFORMER PAD & VAULT DETAILS

E601 NTS

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8 generator pad detail

E602 NTS

<u>NOTES:</u>

ALL DIMENSIONS.

- 1. FILL AND COMPACT TO NOT LESS THEN 95 PERCENT OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D 1557. PLACE AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH.
- 2. FOLLOW A.C.I. 301 FOR CONCRETE COMPRESSIVE STRENGTHS OF 4000 P.S.I.
- 3. MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTHS OF 4000 P.S.I.
- 4. CONCRETE SHALL BE AIR ENTRAINED 5% TO 7%.
- 5. CHAMFER EXPOSED CORNERS OF CONCRETE 3/4 INCH.
- 6. CONCRETE REINFORCING: DEFORMED BARS, A.S.T.M. A-615, GRADE 60.
- 7. CAST IN PLACE CONCRETE COVER FOR REINFORCING U.O.N. ON DETAILS: a. CONCRETE CAST AGAINST EARTH – 3"
 - b. CONCRETE EXPOSED TO EARTH OR WEATHER: #6 BAR AND LARGER — 2" #5 BAR AND SMALLER - 1-1/2"
 - c. CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS AND JOISTS (#11 BAR AND SMALLER) - 3/4"
- 8. HOLD REINFORCING BARS AT CORRECT DISTANCE FROM FORMS AND EARTH WITH CHAIRS, SPACERS, AND TIES. (PLASTIC TIP LEGS AT EXPOSED CONCRETE).
- 9. IN ANY APPROVED CONSTRUCTION JOINT, PROVIDE A SHEAR KEY 1-1/2 IN. DEEP
- 10. CAST INTO THE CONCRETE ACCESSORIES REQUIRED BY EQUIPMENT. COORDINATE

<u>NOTES:</u>

- 1. COPPER GROUND BAR SHALL BE 4" HIGH X .25" THICH X 24" LONG.
- HOLE CENTER SHALL MATCH NEMA DOUBLE LUG CONFIGURATION. 2. 2" LONG INSULATORS.
- 3. LOCKWASHERS.
- 4. WALL MOUNTING BRACKET.

X 1/3-JOINT-WIDTH. ALSO PROVIDE A TENSION CLASS "B" LAP REINFORCING.

2-WAY DUCTBANK SECTION DETAIL 4 E602 ^{12" = 1'-0"}

<u>NOTES</u>

1. SIZE HANDHOLE AT EACH LOCATION AS REQUIRED BY CODE. MINIMUM HANDHOLE SIZE SHALL BE 30"X48"X24".

2. BASIS OF DESIGN: QUAZITE BOX PART#PG3048BA24 WITH MATCHING COVER.

3. PROVIDE PULL ROPE IN ALL CONDUITS ENTERING HANDHOLE.

4. COVER AND BOX SHALL BE DESIGNED TO SUPPORT TIER 22 LOADS.

		WIR Copper C	NING SCHED	OULE RS (0-600V)		
CIRCUIT	# OF PARALLEL	# OF CONDUIT SIZE (INCHES) PARALLEL BASED ON CIRCUIT TYPE [1]		CONDUCT	OR SIZE	
LABEL	CONDUIT RUNS	2C	3C	4C	PHASE/ NEUTRAL [2]	EGC [3]
15	1	3/4	3/4	3/4	12	12
20	1	3/4	3/4	3/4	12	12
25	1	3/4	3/4	3/4	10	10
30	1	3/4	3/4	3/4	10	10
35	1	3/4	3/4	3/4	8	10
40	1	3/4	3/4	3/4	8	10
45	1	3/4	3/4	3/4	8	10
50	1	3/4	3/4	3/4	8	10
60	1	3/4	3/4	1	6	10
70	1	1	1	1-1/4	4	8
80	1	1	1	1-1/4	4	8
90	1	1	1-1/4	1-1/4	3	8
100	1	1	1-1/4	1-1/4	3	8
110	1	1-1/4	1-1/4	1-1/4	2	6
125	1	1-1/4	1-1/2	1-1/2	1	6
150	1	1-1/4	1-1/2	1-1/2	1/0	6
175	1	1-1/2	2	2	2/0	6
200	1	1-1/2	2	2	3/0	6
225	1	2	2	2-1/2	4/0	4
250	1	2	2-1/2	2-1/2	250	4
300	1	2-1/2	3	3	350	4
350	1	2-1/2	3	3-1/2	500	3
400	2	2	2	2	3/0	3
450	2	2	2	2-1/2	4/0	2
500	2	2	2-1/2	2-1/2	250	2
600	2	2-1/2	3	3	350	1
700	2	3	3	3-1/2	500	1/0
800	3	2-1/2	2-1/2	3	300	1/0
1000	3	2-1/2	3	3	400	2/0
1200	4	2-1/2	3	3	350	3/0
1600	5	3	3	3	400	4/0
2000	6	3	3	3	400	250
2500	7	3	3	3-1/2	500	350
3000	8	3	3	3-1/2	500	400
4000	11	3	3	3-1/2	500	500

USE THE	USE THE APPROPRIATE COLUMN TO SELECT CONDUIT BASED ON THE FOLLOWING CIRCUIT TYPES:						
CIRCUIT	CUIT CONDUCTORS PER CONDUIT			00111101			
DESIGNATION	CIRCUIT PHASING/POLES	PHASE	NEUTRAL	EGC	COLUMN		
1 NG	SINGLE PHASE/1-POLE	1	1	1	20		
2G	SINGLE PHASE/2-POLE	2	0	1	20		
2NG	SINGLE PHASE/2-POLE	2	1	1	30		
3G	THREE PHASE/3-POLE	3	0	1	50		
3NG	THREE PHASE/3-POLE	3	1	1	40		
3N	THREE PHASE/3-POLE (SE)	3	1	0	40		

TRANSFORMER	OCPD RA	GROUNDING	
SIZE (KVA)	480V PRIMARY	208V SECONDARY	CONDUCTOR
15	25	25	8
30	50	110	8
45	70	175	4
75	125	300	2
112.5	175	400	1/0
150	250	600	2/0
225	350	800	2/0
300	500	1200	3/0
500	800	2000	3/0
TAG	FEEDER KEY - REFER	TO WIRING SCHEDULE	
т	PRIMARY	SECONDARY	
I	3G	3NG	

DRY-IYPE I	KANSFORMER
SCHEDULE (SINGLE PHASE)

	-		
TRANSFORMER	OCPD RA	GROUNDING	
SIZE (KVA)	480V PRIMARY	208V SECONDARY	CONDUCTOR
15	40	80	8
25	70	150	6
37.5	100	200	4
50	150	300	2
75	200	400	1/0
100	300	600	2/0
167	450	1000	3/0
250	700	1600	3/0
TAG	FEEDER KEY - REFER	TO WIRING SCHEDULE	
т	PRIMARY	SECONDARY	
 	2G	2NG	

DERIVED SOURCE NEUTRAL GROUNDING ELECTRODE CONDUCTOR SCHEDULE					
TRANSFORMER NAME	KVA	GROUNDING ELECTRODE (X/O) CONDUCTOR			
T15	15	1#6-3/4"C			
T30	30	1#6-3/4"C			
T45	45	1#4-3/4"C			
T75	75	1#2-3/4"C			
T112	112.5	1#1/0-3/4"C			
T150	150	1#2/0-3/4"C			
T225	225	1#3/0-3/4"C			
Т300	300	1#3/0-3/4"C			

	LEGEND	
TAG	DESCRIPTION	
	1-600MCM IN 1-1/2"C	
2	1-250MCM IN 1"C	
3	1-2/0 AWG IN 3/4"C	3RD FLOOR
MGB	MAIN GROUND BUS BAR (1/4" X 4" X 24" COPPER)	
TMGB	MAIN TELECOM GROUND BUS BAR (1/4" X 4" X 36" COPPER)	
TGB	TELECOM GROUND BUS BAR (1/4" X 4" X 24" COPPER)	I
	NEAREST STEEL BUILDING COLUMN	2ND FLOOR
NOTES:	1	
. REFE	R TO SPECIFICATIONS SECTION 260526 FOR GROUNDING ALLATION DETAILS, CONNECTIONS, AND TERMINATIONS.	

ELECTRICAL GROUNDING RISER DIAGRAM

E702 NTS

Z ELECTRICAL EMERGENCY/STANDBY RISER DIAGRAM

Т

		EQUIPMENT C		CTION	SCHEDU	JLE - SIN	IGLE P	POINT CONNEC	TION				EQUIPMENT CO	NNECTION	Schedu	LE - SINGLE P	OINT CONNE	CTION				KITCHEN & CU	JLINAR	Y SCHEDUI	_E		
ТАС			MOCR	POWER	R CIRCUI			DISCONNECT I			ТАС							DISCONNECT		ТАС					POWER		CONDUIT &
AC-1	208	PHASE FLA MCA 1 17.5 -	35	MP1-1	25,27,29	- R VVIRE 9 35,	ZIZE /3G	FACTORY PROVIDED	5IZE _	-	IAG ISU-CA-204	208	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 MP2-1	5,7	20/2NG	FIELD	MMS	FA SHUTDOWN	K100	MILK COOLER	VOLTAGEPHASE1201	7.6	NEMADIREC5-15R-	KP1-1	BREAKER 2	20/1NG
AC-DRYER B-A-1	120 480	1 0.7 – 3 6 7.5	20 20	MP1-1 MPH1-1	18 7,9,11	20/	/1NG /3NG	FACTORY PROVIDED FIELD PROVIDED	– BREAKER		ISU-CA-212 ISU-CA-221B	208 208	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 MP2-1 15 MP2-2	9,11	20/2NG 20/2NG	FIELD FIELD	MMS MMS		K100 K101	MILK COOLER HOT FOOD STATION	120 1 208 1	7.6 9.9	5-15R - L14-20R -	KP1-1 KP1-1	4 31,33	20/1NG 20/2NG
B-A-2 B-A-3	480 480	3 6 7.5 3 6 7.5	20 20	MPH1-1 MPH1-1	8,10,12	20/ 7 20/	/3NG /3NG	FIELD PROVIDED	BREAKER BREAKER		ISU-CA-233A ISU-CA-233B	208 208	1 – 0.3 1 – 0.3	15 MP2-2 15 MP2-2	5,7 5,7	20/2NG 20/2NG	FIELD	MMS MMS		K101 K103	HOT FOOD STATION UTILITY COUNTER	208 1 120 1	9.9 20.0	L14-20R – 5-20R –	KP1-1 KP1-1	32,34 7	20/2NG 20/1NG
CP-A-100	120	1 1.5 – 1 1.5 –	20	MP1-2 MP1-1	16	20/	/1NG	FIELD	MMS	-	ISU-CA-233C	208	1 - 0.3	15 MP2-2	5,7	20/2NG	FIELD	MMS	-	K103	UTILITY COUNTER	120 1 120 1	20.0	5-20R -	KP1-1	6	20/1NG
CP-A-107	120	1 1.5 – 1 1.5 –	20	MP1-1	22	20/	/1NG	FIELD	MMS		ISU-CA-233E	208		15 MP2-2	5,7	20/2NG 20/2NG	FIELD	MMS	-	K104 K104	COLD FOOD STATION	120 1 120 1	7.8	5-15R -	KP1-1	8	20/1NG
CP-A-202 CP-A-207	120	1 1.5 – 1 1.5 –	20	MP2-1 MP2-1	12	20/	/1NG /1NG	FIELD	MMS MMS		ISU-CB-100B ISU-CB-111	208	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 MP1-2 15 MP1-1	1,3	20/2NG 20/2NG	FIELD	MMS MMS	-	K106 K106	UTILITY COUNTER	120 1 120 1	20.0	5-20R -	KP1-1 KP1-1	10	20/1NG 20/1NG
CP-A-216 CP-A-226	120 120	1 1.5 – 1 1.5 –	20 20	MP2-1 MP2-2	12 6	20/	/1NG /1NG	FIELD	MMS MMS		ISU-CC-100 ISU-CC-101	208 208	1 – 0.4 1 – 0.4	15 MP1-2 15 MP1-1	1,3	20/2NG 20/2NG	FIELD	MMS MMS		K109 K109	CASHIER STATION CASHIER STATION	120 1 120 1	20.0 20.0	5-20R - 5-20R -	KP1-1 KP1-1	13 12	20/1NG 20/1NG
CP-A-C202 CU-A-1	120 480	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	20 45	MP2-2 MPH2-1	6	20/	/1NG /3G	FIELD FACTORY PROVIDED	MMS -		ISU-CF-102 ISU-CF-103	208 208	1 – 0.7 1 – 0.7	15 MP1-1 15 MP1-1	5,7	20/2NG 20/2NG	FIELD	MMS MMS		K112 K113	ROLL—THRU REFRIGERATOR ROLL—THRU HEATED CABINET	120 1 208 1	10.3 7.2	5-15R - - X	KP1-1 KP1-1	14 35.37	20/1NG 20/2NG
CU-B-1	480	<u> </u>	50	MPH3-1	8,10,12	50,	/3G	FACTORY PROVIDED	_	_	ISU-CF-107	208		15 MP1-1	1,3	20/2NG	FIELD	MMS	-	K115	ROLL-IN HEATED CABINET	208 1 208 1	7.2	- X	KP1-1	36,38	20/2NG
CU-D-1	480	3 - 30.4 3 - 42.1	45	MPH3-3	14,16,18	3 45,	/3G /3G	FACTORY PROVIDED	_	-	ISU-CF-110A	208		15 MP1-1	1,3	20/2NG 20/2NG	FIELD	MMS		K110 K117	ROLL-IN REFRIGERATOR	120 1 120 1	9.4	5–15R –	KP1-1	15	20/1NG
CU-E-1 CU-F-1	480 480	3 - 46.8 3 - 16.6	50 20	MPH3-2 MPH3-1	38,40,42	2 50, 4 20,	/3G /3G	FACTORY PROVIDED	-		ISU-CF-205 ISU-CF-207	208 208	1 – 0.7 1 – 0.7	15 MP2-1 15 MP2-1	5,7	20/2NG 20/2NG	FIELD FIELD	MMS MMS	-	K117 K120	ROLL-IN REFRIGERATOR VENTLESS COMBI OVEN	120 1 208 3	9.4 124.0	5-15R - - X	KP1-1 DPL1-1	16 8,10,12	20/1NG 175/3G
CU-F-2 CU-F-3	480 480	3 - 16.6 3 - 16.6	20 20	MPH3-2 SBH3-1	55,57,59	9 20, 20,	/3G /3G	FACTORY PROVIDED	-		ISU-CF-208 ISU-CF-209	208 208	1 – 0.7 1 – 0.7	15 MP2-1 15 MP2-1	5,7	20/2NG 20/2NG	FIELD	MMS MMS		K120 K120	VENTLESS COMBI OVEN VENTLESS COMBI OVEN	208 3 208 3	124.0 124.0	- X - X	DPL1-1 DPL1-1	13,15,17 14,16,18	175/3G 175/3G
	480	3 - 16.6	20	MPH3-3	43,45,47	7 20,	/3G /3G	FACTORY PROVIDED	-	-	ISU-CF-302	208	1 - 0.7	15 MP3-1	9,11	20/2NG	FIELD	MMS	-	K120	VENTLESS COMBI OVEN	208 3	124.0	– X	DPL1-1	19,21,23	175/3G
CU-F-6	480	<u> </u>	20	MPH3-3	44,46,48	3 20,	/3G	FACTORY PROVIDED	-	-	ISU-CG-202.1	208		15 MP2-1	1,3	20/2NG 20/2NG	FIELD	MMS	-	K120.1	CONDENSATE HOOD	120 1 120 1	1.6	5-15R -	KP1-1	17	20/1NG
CU-F-7 CU-F-8	480	3 - 16.6 3 - 16.6	20	SBH3-1 SBH3-1	13,15,17	7 20, 3 20,	/3G /3G	FACTORY PROVIDED	-	-	ISU-CG-202.2 ISU-CG-215	208	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 MP2-1 15 MP2-1	1,3 9,11	20/2NG 20/2NG	FIELD	MMS MMS	-	K121 K123	WORK TABLE	120 1 120 1	1.0 30.0	5-15R - - X	KP1-1 KP1-1	19 5	20/1NG 30/1NG
CU-F-9 CU-F-10	480	3 - 16.6 3 - 16.6	20 20	MPH3-3 MPH3-2	49,51,53	3 20, 4 20,	/3G /3G	FACTORY PROVIDED FACTORY PROVIDED	-		ISU-CG-216 ISU-CH-108	208 208	1 – 1.3 1 – 1.5	15 MP2-1 15 MP1-1	9,11	20/2NG 20/2NG	FIELD	MMS MMS		K123 K123	WORK TABLE WORK TABLE	120 1 120 1	30.0 30.0	- X - X	KP1-1 KP1-1	3	30/1NG 30/1NG
CU-G-1 CU-H-1	480	3 - 32.5 3 - 32.5	35	MPH2-1 MPH3-3	2,4,6	35,	/3G /3G	FACTORY PROVIDED	-		ISU-CH-223	208 208	1 – 1.5	15 MP2-1 15 MP3-1	1,3	20/2NG	FIELD FIELD	MMS	-	K124	REACH-IN FREEZER	120 1 120 1	9.4	5-15R - - X	KP1-1	18	20/1NG
CU-J-1	208	1 – 6.5 7 200	15	MP3-1	20,22	15/	/2NG	FACTORY PROVIDED	_		ISU-CI-104	208		15 MP1-1	5,7	20/2NG 20/2NG	FIELD	MMS	-	K200	WALK-IN COOLER/FREEZER	120 1 120 1	15.0	- X	SB2-1	8	20/1NG 20/1NG
CU-K-1 CU-K-2	480	3 - 20.6 3 - 20.6	25	MPH3-1 MPH3-2	49,51,53	3 25, 3 25,	/3G /3G	FACTORY PROVIDED	-	-	ISU-CI-210 ISU-CI-217	208	<u> </u>	15 MP2-1 15 MP2-1	9,11	20/2NG 20/2NG	FIELD	MMS	-	K200.1	AIR CURTAIN	120 1 120 1	15.0	- X - X	SB2-1 SB2-1	14	20/1NG 20/1NG
CUH-A-T101 CUH-A-T102	120 120	1 3.7 – 1 3.7 –	20 20	MP1-1 MP1-1	2	20/	/1NG /1NG	FACTORY PROVIDED FACTORY PROVIDED	-		ISU-CI-218 ISU-CI-219	208 208	<u> 1 </u>	15 MP2-1 15 MP2-1	9,11	20/2NG 20/2NG	FIELD	MMS MMS	-	K201 K203	WALK-IN COOLER EVAPORATOR COIL WALK-IN FREEZER EVAPORATOR COIL	208 1 208 1	4.4	- X - X	SB2-1 SB2-1	11,13 15,17	20/2NG 20/2NG
CUH-A-T103 CUH-A-T106	120	1 3.7 – 1 3.7 –	20 20	MP1-1 MP1-2	6	20/	/1NG /1NG	FACTORY PROVIDED	-		ISU-CI-220 ISU-CI-221	208 208	1 – 1.8 1 – 1.8	15 MP2-1 15 MP2-2	9,11	20/2NG 20/2NG	FIELD	MMS MMS		K203.1 K205	FREEZER DRAIN LINE HEATER REFRIGERATOR RACK SYSTEM	120 1 208 3	11.9 41.7	- X - X	SB2-1 SB2-1	16 1.3.5	20/2NG 60/3G
CUH-A-T107	120	1 3.7 – 1 3.7 –	20	MP1-2	10	20/	/1NG	FACTORY PROVIDED	-	-	ISU-CI-224	208		15 MP2-2	1,3	20/2NG 20/2NG	FIELD	MMS	-	K215		120 1 208 1	15.0	5-20R -	KP2-2	1	20/1NG
CUH-A-T201 CUH-A-T202	120	1 3.7 – 1 3.7 –	20	MP2-1	2	20/	/1NG /1NG	FACTORY PROVIDED	_	-	ISU-CI-228	208	1 – 1.8	15 MP2-2	1,3	20/2NG 20/2NG	FIELD	MMS	-	K301	TEACHER'S REFREGERATED STATION	1208 1 120 1	3.4	5-15R -	KP2-2 KP2-2	2	20/1NG
CUH-A-T203 CUH-A-T205	120 120	1 3.7 – 1 3.7 –	20 20	MP2-1 MP2-2	2	20/	/1NG /1NG	FACTORY PROVIDED			ISU-CI-230 ISU-CI-231	208 208	1 – 1.8 1 – 1.8	15 MP2-2 15 MP2-2	1,3 1,3	20/2NG 20/2NG	FIELD FIELD	MMS MMS	-	K402 K402.1	DISHWASHER INTERNAL BOOSTER HEATER	208 3 208 3	26.9 25.6	- X - X	KP2-1 KP2-1	19,21,23 14,16,18	35/3G 35/3G
CUH-A-T206 CUH-A-T302	120 120	1 3.7 – 1 3.7 –	20 20	MP2-2 MP3-1	2	20/	/1NG /1NG	FACTORY PROVIDED	-		ISU-CI-232 ISU-CI-306	208 208	<u> 1 </u>	15 MP2-2 15 MP3-1	1,3 9,11	20/2NG 20/2NG	FIELD	MMS MMS		K408 K411	HAND SINK PROOFING CABINET	120 1 120 1	1.0 13.8	5-15R - 5-20R -	KP2-2 KP2-2	3 4	20/1NG 20/1NG
CUH-A-T303	120	1 <u>3.7</u> –	20	MP3-1	4	20/	/1NG	FACTORY PROVIDED	-	-	ISU-CI-308	208	1 – 1.8	15 MP3-1	9,11	20/2NG	FIELD	MMS	-	K412	EXHAUST HOOD	120 1 120 1	15.0	- X	KP2-2	5	20/1NG
CUH-A-V102	120	1 3.7 –	20	MP1-2	8	20/	/1NG	FACTORY PROVIDED	-		ISU-CI-314	208		15 MP3-1	9,11	20/2NG 20/2NG	FIELD	MMS	-	K414		208 3 202 7	38.0	- X	KP2-1	2,4,6	50/3G
CUH-A-V105 CUH-B-122	120	1 3.7 – 1 7.4 –	20	MP1-2 MP1-2	2	20/	/1NG /1NG	FACTORY PROVIDED	-	-	ISU-CI-N231 ISU-CI-N232	208	<u> </u>	15 MP2-2 15 MP2-2	1,3	20/2NG 20/2NG	FIELD	MMS	-	K414 K415	COMBI OVEN	208 3 208 3	30.0	- X - X	KP2-1 KP2-1	7,9,11 8,10,12	40/3G
CUH-B-S101 CUH-B-S102	120 120	1 7.4 – 1 7.4 –	20 20	MP1-1 MP1-1	4 6	20/	/1NG /1NG	FACTORY PROVIDED FACTORY PROVIDED	-		ISU-HC-314B ISU-HG-C101A	208 208	<u> 1 4.9</u> 1 6.5	15 MP3-1 15 MP1-2	19,21 13,15	15/2NG 15/2NG	FACTORY PROVIDED		-	K415 K417	COMBI OVEN HAND SINK	208 3 120 1	30.0 1.0	– X 5–15R –	KP2-1 KP2-2	13,15,17 3	40/3G 20/1NG
CUH-B-S104 CUH-C-103	120 120	1 7.4 – 1 7.4 –	20 20	MP1-2 MP1-1	8	20/	/1NG /1NG	FACTORY PROVIDED	-		ISU-HG-C101B ISU-HG-C101C	208 208	1 – 6.5 1 – 6.5	15 MP1-2 15 MP2-2	17,19	15/2NG 15/2NG	FACTORY PROVIDED			K417 K417	HAND SINK HAND SINK	120 1 120 1	1.0 1.0	5–15R – 5–15R –	KP2-2 KP2-2	3	20/1NG 20/1NG
CUH-C-131	120	1 7.4 -	20	MP1-2	6	20/	/1NG	FACTORY PROVIDED	-	-	ISU-HG-C102A	208	1 - 6.5	15 MP1-1	13,15	15/2NG	FACTORY PROVIDED	-	-	K418	MIXER	208 3 120 1	7.0	L15-20R -	KP2-1	20,22,24	20/3G
CUH-C-V101	120	1 7.4 –	20	MP1-2	4	20/	/1NG	FACTORY PROVIDED	_	-	ISU-HG-C103	208		15 MP1-2	21,23	15/2NG	FACTORY PROVIDED	-	-	K427.1	UTILITY WALL SYSTEM	120 1 120 1	60.0	- X	KP2-2	35	60/1NG
ERU-A-1.1	480	1 7.4 - 3 63.4 69.1	90	MP1-2 MPH3-2	31,33,35	5 90,	/3G	FACTORY PROVIDED	_	YES W/ DUCT DETECTOR	ISU-HG-C201A	208	1 - 6.5	15 MP2-1 15 MP2-1	17,19	15/2NG	FACTORY PROVIDED	-	-	K428.1 K429	EXHAUST HOOD	120 1 120 1	15.0	- X	KP2-2 KP2-2	9	20/1NG
ERU-B-1.2 ERU-C-2.1	480	3 25.6 27.6 3 49.0 56.5	35 80	MPH3-2 MPH3-2	43,45,47	7 <u>35</u> , 680,	/3G /3G	FACTORY PROVIDED FACTORY PROVIDED	-	YES W/ DUCT DETECTOR YES W/ DUCT DETECTOR	ISU-HG-C202A ISU-HG-C204A	208 208	<u> </u>	15 MP2-1 15 MP2-2	21,23	15/2NG 15/2NG	FACTORY PROVIDED		-	K429 K429.1	EXHAUST HOOD FIRE SUPPRESSION SYSTEM	120 1 120 1	15.0 20.0	- X - X	KP2-2 LS1-1	8	20/1NG 20/1NG
ERU-D-2.2 ERU-E-2.3	480 480	342.248.1341.847.5	70 70	MPH3-2 MPH3-3	37,39,41	1 70, 70,	/3G /3G	FACTORY PROVIDED	-	YES W/ DUCT DETECTOR YES W/ DUCT DETECTOR	ISU-HG-C204B ISU-HH-C301A	208 208	1 – 6.5 1 – 8.6	15 MP2-2 15 MP3-1	21,23	15/2NG 15/2NG	FACTORY PROVIDED			K429.1 K432.1	FIRE SUPPRESSION SYSTEM UTILITY WALL SYSTEM	120 1 120 1	20.0 60.0	- X - X	LS1-1 KP2-2	10	20/1NG 60/1NG
ERU-F-3.3	480	3 39.3 45.0 3 71.4 77.1	60	MPH3-3 MPH3-1	8,10,12	60,	/3G	FACTORY PROVIDED	-	YES W/ DUCT DETECTOR	ISU-HH-C301B	208 480	1 - 8.6	15 MP3-1	27,29	15/2NG	FACTORY PROVIDED	-	- YES W/ DUCT DETECTOR	K432.1	UTILITY WALL SYSTEM	120 1 120 1	60.0	- X	KP2-2	41	60/1NG
ERV-A	208	1 1.73 3.9	15	MP3-1	24,26	15/	/2NG	FACTORY PROVIDED	_		MAU-A-119.2	480	3 - 7.2	15 MPH3-2	56,58,60	20/3G	FACTORY PROVIDED		YES W/ DUCT DETECTOR	K433	EXHAUST HOOD	120 1 120 1	15.0	- X	KP2-2	11	20/1NG
ERV-B F-A-206.1	480	1 3.4 7.7 3 7.2 9	15	MP3-1 MPH3-2	61,63,65	5 15/	/2NG /3G	FACTORY PROVIDED	_		MAU-C-129 MAU-D-206.1	480 480	<u> </u>	15 MPH3-3 15 MPH3-1	26,28,30	20/3G 20/3G	FACTORY PROVIDED	-	YES W/ DUCT DETECTOR	K433 K433	EXHAUST HOOD EXHAUST HOOD	120 1 120 1	15.0	- X - X	KP2-2 KP2-2	12	20/1NG 20/1NG
F-B-206.2 F-C-206.3	480	3 3.2 4 3 3.2 4	15 15	MPH3-1 MPH3-1	31,33,35	5 15, 5 15,	/3G /3G	FACTORY PROVIDED	-		MAU-E-206.2 P-A-1	480 480	<u> </u>	30 MPH3-2 15 MPH1-1	44,46,48	30/3G 15/3G	FACTORY PROVIDED		YES W/ DUCT DETECTOR	K433.1 K433.1	FIRE SUPPRESSION SYSTEM	120 1 120 1	20.0	- X - X	LS1-1 LS1-1	15 14	20/1NG 20/1NG
F-D-206.4 F-E-206.5	480 480	3 1.8 2.2 3 1.8 2.2	15 15	MPH3-1 MPH3-2	31,33,35	5 15, 6 15,	/3G /3G	FACTORY PROVIDED	-		P-A-2 P-A-3	480 480	3 4.8 - 3 4.8 -	15 MPH1-1 15 MPH1-1	26,28,30 31,33,35	15/3G 15/3G	FACTORY PROVIDED			K433.1 K433.1	FIRE SUPPRESSION SYSTEM	120 1 120 1	20.0 20.0	- X - X	LS1-1 LS1-1	13 12	20/1NG 20/1NG
F-F-206.6	480	3 3.2 4 3 3.2 4	15	MPH3-2	62,64,66	5 15, 5 15,	/3G /3G	FACTORY PROVIDED	-	-	P-B-1	480	3 27.0 -	60 MPH1-1	1,3,5	60/3G	FACTORY PROVIDED	-	-	K436	EXHAUST HOOD	120 1 208 3	15.0	- X	KP2-2	14	20/1NG 200/3G
F-H-117	480	3 3.2 4.8 -	15	MPH3-2	67,69,71	1 15,	/3G	FIELD PROVIDED	30A	-	P-C-1	480	<u> </u>	20 MPH1-1	14,16,18	20/3G	FACTORY PROVIDED		_	K437 K438	FIRE SUPPRESSION SYSTEM	120 1 120 1	20.0	- X	LS1-1	16	200/00 20/1NG
F-I F-J	115	1 6.6 8.2 1 10 12.5	15 20	MP2-1 MP3-1	4	15/	/1NG /1NG	FACTORY PROVIDED	-		P-C-2 PP-1	480 120	<u> </u>	20 MPH1-1 20 MP1-2	19,21,23	20/3G 20/1NG	FACTORY PROVIDED	-	-	K451 K453	ROLL-IN REFRIGERATOR	120 1 120 1	9.4	5-15R - 5-15R -	KP2-2 KP2-2	19 15	20/1NG 20/1NG
F-K-115A F-L	115 115	1 2.8 3.5 1 3.8 4.8	15 15	MP2-1 MP3-1	6 14	15/ 15/	/1NG /1NG	FACTORY PROVIDED FACTORY PROVIDED	-		PP-2 PP-3A	120 120	<u> 1 1.4 </u>	20 MP1-1 20 MP1-1	10	20/1NG 20/1NG	FACTORY PROVIDED FACTORY PROVIDED		-	K453 K456	ROLL-IN REFRIGERATOR MIXER	120 1 120 1	9.4 6.0	5-15R - 5-15R -	KP2-2 KP2-2	17 16	20/1NG 20/1NG
FM FN	115 115	1 2.8 3.5 1 3.8 4.8	15 15	MP3-1 MP3-1	18	15/	/1NG /1NG	FACTORY PROVIDED	-		PP-3B RTU-A-124	120 480	<u> 1 1.4 </u>	20 MP1-1 25 MPH3-1	14	20/1NG 30/3G	FACTORY PROVIDED		 YES W/ DUCT DETECTOR	K456	MIXER	120 1	6.0	5-15R -	KP2-2	18	20/1NG
F-0	115	1 3.8 4.8 1 3.8 4.8	15	MP3-1	16	15/	/1NG	FACTORY PROVIDED	-	-	RTU-A-125	480	3 20.2 21.9 3 20.2 21.9	25 MPH3-3	25,27,29	30/3G	FACTORY PROVIDED	-	YES W/ DUCT DETECTOR	KITCHEN 1. FC	SCHEDULE NOTES: DR EACH DIRECT CONNECTION UNIT, PR	DVIDE LOCAL DISCONNECT V	WITHIN SITE C	DF UNIT. COORDINA	TE LOCATION IN-FI	ELD WITH ARCH	ITECT.
F-P F-Q	115	3.0 4.8 1 3.8 4.8	15	MP3-1 MP2-1	6	15/	/1NG	FACTORY PROVIDED	-	-	RTU-B-128	480	3 20.2 21.9 3 27.9 29.9	23 MPH3-3 35 MPH3-3	19,21,23	30/3G	FACTORY PROVIDED	-	YES W/ DUCT DETECTOR	2. CC	OORDINATE ALL BACKBOX MOUNTING HE	GHTS WITH FOOD SERVICE	DRAWINGS PR	RIOR TO INSTALLATI	ON.		
F-R-108 GMS-A-222	120 120	1 1.5 1.9 1 - 9.0	15 20	MP1-1 MP2-2	20 4	15/ 20/	/1NG /1NG	FACTORY PROVIDED	-	-	RIU-C-119 RTU-D-120	480 480	3 27.9 29.9 3 52.0 59.5	35 MPH3-1 80 MPH3-1	13,15,17	30/3G 80/3G	FACTORY PROVIDED FACTORY PROVIDED	-	YES W/ DUCT DETECTOR YES W/ DUCT DETECTOR								
GWH-1 GWH-2	120 120	1 5.0 – 1 5.0 –	20 20	MP1-2 MP1-1	12 10	20/20/	/1NG /1NG	FIELD	30A 30A		RTU-E-130.1 RTU-E-130.2	480 480	3 72.4 78.1 3 72.4 78.1	100 MPH3-3 100 MPH3-3	1,3,5 2,4,6	100/3G 100/3G	FACTORY PROVIDED FACTORY PROVIDED		YES W/ DUCT DETECTOR YES W/ DUCT DETECTOR								
GWH-3A GWH-3B	120	1 5.0 – 1 5.0 –	20	MP1-1 MP1-1	12 1 <i>4</i>	20/	/1NG /1NG	FIELD FIFL D	30A .304		RTU-F-206	480 115	3 42.4 48.1 1 .53 -	70 MPH3-1 20 I P1-WS	7,9,11	70/3G	FACTORY PROVIDED		YES W/ DUCT DETECTOR								
GWH-4	120	1 5.0 -	20	MP1-1	16	20/	/1NG	FIELD	30A	-	UH-129C	115		20 MP1-2	8	20/1NG	FACTORY PROVIDED	-	-								
ISU-CA-100A	208	1 - 0.3 1 - 0.3	15	MP1-2 MP1-2	1,3	20/	/2NG	FIELD	MMS		UH-A-105	115	1 .53 -	20 MP1-2 20 MP1-1	8	20/1NG	FACTORY PROVIDED	-									
ISU-CA-100D	208 208	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 15	MP1-2 MP1-2	1,3	20/ 20/	/2NG /2NG	FIELD FIELD	MMS MMS	-	UH-A-106 UH-A-123	115 115	1 .53 – 1 .53 –	20 MP1-1 20 MP1-2	2 10	20/1NG 20/1NG	FACTORY PROVIDED	-									
ISU-CA-100H ISU-CA-100I	208 208	1 – 0.3 1 – 0.3	15 15	MP1-2 MP1-2	1,3	20/	/2NG /2NG	FIELD	MMS MMS	-	UH-A-130A UH-A-203	115 115	1 .53 – 1 .53 –	20 MP1-2 20 MP2-1	8	20/1NG 20/1NG	FACTORY PROVIDED FACTORY PROVIDED										
ISU-CA-100J	208	1 – 0.3	15	MP1-2	1,3	20/	/2NG	FIELD	MMS	-	UH-A-V108 WFU-A-1	115 480	1 .53 – 3 52.0 –	20 MP2-2 125 DPH1-1	2 19,21,23	20/1NG 125/3G	FACTORY PROVIDED FIELD PROVIDED	-	- YES W/ DUCT DETECTOR								

		SHOPS	S ELECT	RICAL	SCHE	DULE			
ITEM NO.	DESCRIPTION	VOLTAGE	PHASE	AMPS	NEMA	DIRECT	POWER SOURCE	CIRCUIT BREAKER	CONDUIT & WIRING
A010	WELDER	230V	1	39.5	L6-50R	-	LP1-AS1	2,4	50/2NG
A010	WELDER	230V	1	39.5	L6-50R	-	LP1-AS1	5,7	50/2NG
A011	A/C MACHINE	120V	1	10.0	5-20R	-	LP1-AS1	44	20/1NG
A012 A013	PARTS WASHER	120V 120V	1	10.0	5-20R -	- X	LP1-AS1 LP1-AS1	42	20/1NG 20/1NG
A013	PARTS WASHER	120V	1	10.0	_	Х	LP1-AS1	46	20/1NG
A013	PARTS WASHER	120V	1	10.0	- 16-20R	X _	LP1-AS1	47	20/1NG 20/2NG
A014	TIRE CHANGER	230V	1	6.0	L6-20R	-	LP1-AS2	6,8	20/2NG
A014A		230V	1	23.0	L6-30R	-	LP1-AS1	17,19	30/2NG
A015	TIRE BALANCER	230V	1	10.0	L6-30R	_	LP1-AS2	9,11	20/2NG
A015	TIRE BALANCER	230V	1	10.0	L6-20R	-	LP1-AS1	22,24	20/2NG
A017 A018	SCISSOR LIFT	230V 230V	1	26.0	-	X	LP1-AS1 LP1-AS1	6,8	20/2NG 40/2NG
A018	SCISSOR LIFT	230V	1	26.0	-	X	LP1-AS1	9,11	40/2NG
A019	SCISSOR LIFT - HEAD UNIT	230V	1	3.0	-	X	LP1-AS1	29,31 26.28	20/2NG
A020	BENCH GRINDER	120V	1	12.0	5-20R	-	LP1-AS1	48	20/1NG
A020	BENCH GRINDER	120V	1	12.0	5-20R	_	LP1-AS2	17	20/1NG
A020 A020	BENCH GRINDER	120V	1	12.0	5-20R 5-20R	-	LP1-AS2	49	20/1NG
A021	POST LIFT	230V	1	30.0	_	X	LP1-AS1	10,12	40/2NG
A021 A021	POST LIFT POST LIFT	230V 230V	1	30.0 30.0	-	X	LP1-AS1 LP1-AS1	13,15	40/2NG 40/2NG
A021	POST LIFT	230V	1	30.0	_	X	LP1-AS2	1,3	40/2NG
A026	BRAKE LATHE	230V	1	7.5	- 6-40P	X _	LP1-AS1	30,32 5 7	20/2NG
A030	MIG WELDER	230V	1	22.5	L6-40R		LP1-WS	9,11	40/2NG
A030	MIG WELDER	230V	1	22.5	L6-40R	-	LP1-WS	6,8	40/2NG
A030 A030	MIG WELDER	230V 230V	1	22.5	L6-40R L6-40R	-	LP1-AS2 LP1-AS2	2,4	40/2NG 40/2NG
A030A	MIG WELDER	480V	1	25.0	L8-40R	-	LPH1-WS	2,4	40/2NG
A030A A030B	MIG WELDER MIG WELDER	480V	1	25.0	L8-40R		LPH1-WS	1,3 10,12	40/2NG 40/2NG
A030B	MIG WELDER	480V	1	27.0	L8-40R	-	LPH1-WS	9,11	40/2NG
A030B	MIG WELDER	480V	1	27.0	L8-40R	_	LPH1-WS	6,8	40/2NG
A030B	DRILL PRESS	120V	1	14.0	5-20R	-	LPHT-WS LP1-AS2	19	20/1NG
A034	DRILL PRESS	120V	1	14.0	5-20R	_	LP1-WS	13	20/1NG
A034 A038.1	DRILL PRESS PAINT BOOTH – MAU	120V 208V	1 3	14.0 84.1	5-20R -	- X	LP1-WS DPL1-1	14	20/1NG 125/3G
A038.2	PAINT BOOTH - FAN	208V	3	4.2	_	X	DPL1-1	38,40,42	20/3G
A039	TIG WELDER	480V	1	47.0	L8-70R	-	LPH1-WS	13,15	70/2NG
A039 A039	TIG WELDER	480V 480V	1	47.0	L8-70R	_	LPH1-WS	17,19	70/2NG
A039A	TIG WELDER	230V	1	30.0	L6-50R	-	LP1-WS	1,3	50/2NG
A040 A040	WELDER HOOD (MISC.)	120V 120V	1	1.0	5-20R 5-20R	-	LP1-WS LP1-WS	15	20/1NG 20/1NG
A040	WELDER HOOD (MISC.)	120V	1	1.0	5-20R	-	LP1-WS	16	20/1NG
A040	WELDER HOOD (MISC.)	120V	1	1.0	5-20R	-	LP1-WS	16	20/1NG
A040	WELDER HOOD (MISC.)	120V	1	1.0	5-20R	_	LP1-WS	15	20/1NG
A040	WELDER HOOD (MISC.)	120V	1	1.0	5-20R	-	LP1-WS	15	20/1NG
A040 A040	WELDER HOOD (MISC.)	120V 120V	1	1.0	5-20R 5-20R	-	LP1-WS LP1-WS	15	20/1NG 20/1NG
A040	WELDER HOOD (MISC.)	120V	1	1.0	5-20R	-	LP1-WS	17	20/1NG
A040A	WELDER HOOD (MISC.)	120V	1	1.0	5-20R	-	LP1-WS	16	20/1NG
A040A	WELDER HOOD (MISC.)	120V	1	1.0	5-20R	-	LP1-WS	17	20/1NG
A040A	WELDER HOOD (MISC.)	120V	1	1.0	5-20R	_	LP1-WS	18	20/1NG
A042 A044	WELDER HOOD (MISC.)	120V	1	18.0	5-20R	-	LPHI-WS LP1-WS	18	20/1NG
A044	WELDER HOOD (MISC.)	120V	1	1.0	5-20R	_	LP1-WS	18	20/1NG
A044	WELDER HOOD (MISC.)	120V 120V	1	1.0	5-20R 5-20R	_	LP1-WS	18 18	20/1NG 20/1NG
A044	WELDER HOOD (MISC.)	120V	1	1.0	5-20R	-	LP1-WS	18	20/1NG
A044	WELDER HOOD (MISC.)	120V	1 1	1.0	5-20R -		LP1-WS	18 2 4	20/1NG
A046	MANUAL COLD SAW	120V	1	10.0	5-20R		LP1-WS	19	20/1NG
A048	GRINDER W/ BELT SANDER	120V	1	11.0	5-20R	-	LP1-WS	21	20/1NG
AU48 A049	GRINDER W/ BELL SANDER	480V	3	5.4	3-20K -	- x	LPI-WS LPH1-WS	49,51,53	20/1NG 20/3G
A049	GRINDING TABLE	480V	3	5.4		X	LPH1-WS	50,52,54	20/3G
A050	HORIZONTAL BANDSAW	120V	1	16.0 20.0	5-20R -		LP1-WS	22 10 12	20/1NG 30/2NG
A055	STICK-TIG WELDER	480V	3	19.0	_	X	LPH1-WS	44,46,48	35/3G
A055	STICK-TIG WELDER	480V	3	19.0	_	X		43,45,47	35/3G
A055		480V	3	19.0		× ×	LPH1-WS	37,39,41	35/3G
A055	STICK-TIG WELDER	480V	3	19.0		X	LPH1-WS	32,34,36	35/3G
AU55 A055	STICK-TIG WELDER	480V 480V	3	19.0 19.0	-	X X	LPH1-WS LPH1-WS	51,55,35 26,28,30	35/3G 35/3G
CS01	JOINTER	230V	3	15.2	L11-30R	-	LP1-CS2	2,4,6	30/3G
CS02	BELT DISK SANDER	120V	1	14.0	5-20R	-	LP1-CS2	20	20/1NG
CS04	WIDE BELT SANDER	230V	3	70.0	J-20K		LP1-CS1	1,3,5	100/3G
CS05	OSCILLATING EDGE SANDER	230V	3	9.6	-	X	LP1-CS2	7,9,11	20/3G
CS06 CS08	COMPOUND MITER SAW	120V	<u> </u>	11.0	5-20R	-	LP1-CS2 LP1-CS2	8,10,12 22	20/3G 20/1NG
CS08	COMPOUND MITER SAW	120V	1	15.0	5-20R	-	LP1-CS2	24	20/1NG
CS11 GF10	PLANER RANDSAW	230V	3	30.0	- 16-30P	X _	LP1-CS2	1,3,5 21 23	40/3G 30/2NG
GE10	BANDSAW	230V	1	17.0	L6-30R		LP1-CS2	13,15	30/2NG
H006	SOLDERING FUME EXTRACTOR	120V		0.5	-	X	LP1-HS1	9	20/1NG
Πυυδ	URILL FRESS	1200		10.0	J-20K	_	LL 1 - 421	10	307 1196

SHOPS SCHEDULE NOTES:

FOR EACH DIRECT CONNECTION UNIT, PROVIDE LOCAL DISCONNECT WITHIN SITE OF UNIT. COORDINATE LOCATION IN-FIELD WITH ARCHITECT.
 FOR PAINT BOOTH UNITS, PROVIDE FIRE ALARM RELAY TO SHUTDOWN PAINT BOOTH IN THE EVENT OF AN ALARM.
 A038.1 SHALL BE PROVIDED WITH ITS OWN UNIT MOUNTED DISCONNECT.

k Docs://NECSD - New CTE Blda/108-2303 NECSD CTE - MEP.rv

TAG	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	WATTAGE	VOLTAGE	NOTES
A1	4" LED LINEAR LUMINAIRE, DOWN ONLY, PENDANT	PRUDENTIAL	BPRO4-LIN FLSH LED35 HO SAL-NU UNV DM01	10.5W/FT	MVOLT	
A2	4" LED LINEAR LUMINAIRE, DOWN ONLY, PENDANT	PRUDENTIAL	BPRO4-LIN FLSH LED35 MO SAL-NU UNV DM01	5.6W/FT	MVOLT	
A3	LED LINEAR LUMINAIRE, UP/DOWN, PENDANT	PRUDENTIAL	STOV LED35 SO-SO TMW D1-SYM SC UNV DM01	13.0W/FT	MVOLT	
B1	4" LED LINEAR LUMINAIRE, RECESSED GRID	PRUDENTIAL	BPRO4-REC FLSH LED35 SO SAL UNV X3 DM01	7.8W/FT	MVOLT	
B2	4" LED LINEAR LUMINAIRE, RECESSED GYP	PRUDENTIAL	BPRO4-REC FLSH LED35 SO SAL UNV X3 DM01	7.8W/FT	MVOLT	
C1	LINEAR LED, GRID BAR REPLACEMENT	JLC TECH	TBSL-MW-24-DW-W	8.0W/FT	MVOLT	2
C2	LINEAR LED, RECESSED GYP	JLC TECH	SOR-MW-2-24-C2BL-B	8.0W/FT	MVOLT	
D1	6" LED SQUARE DOWNLIGHT, RECESSED GRID	PORTFOLIO	LDSQ6C309035D010SQ1LI	32.6W	MVOLT	
D2	6" LED SQUARE DOWNLIGHT, RECESSED GRID	PORTFOLIO	LDSQ6C159035D010SQ1LI	16.6W	MVOLT	
D3	6" LED SQUARE DOWNLIGHT, RECESSED GYP	PORTFOLIO	LDSQ6C309035D010SQ1LI	32.6W	MVOLT	
D4	6" LED SQUARE DOWNLIGHT, RECESSED GYP	PORTFOLIO	LDSQ6C159035D010SQ1LI	16.6W	MVOLT	
F1	2'X2' LED TROFFER, RECESSED	LUMENWERX	SIDVR 22 CPO LED 80 3000 35 UNV D1	37.5W	MVOLT	
F2	2'X2' LED TROFFER, RECESSED	COLUMBIA	LCAT22 35MLG ED1U	25.8W	MVOLT	
G1	2'X4' LED TROFFER, RECESSED	COLUMBIA	LCAT24 35MLG ED1U	36.0W	MVOLT	
G2	2'X4' LED TROFFER, RECESSED	COLUMBIA	LCAT24 35MWG ED1U	26.4W	MVOLT	
H1	LED HIGHBAY, REFLECTOR W/ WIREGUARD, PENDANT	METALUX	UHB 18 UNV L840 CD UHB-ALR12 UHB-WG12	147.0W	MVOLT	
J	LED SPOT LIGHTING, TRACK MOUNTED	HALO	L81208FL9035P	10.5W	MVOLT	
К	4" LED LINEAR LUMINAIRE, TROPHY CASE	NEO-RAY	S124DR S350D835 UDD F W	3.0W/FT	MVOLT	
L	2'x2' LED NARROW SPECTRUM TROFFER, RECESSED	KENNAL	CSEDO 22 23RD/45BD DIM1 DV 2F 2H SYM	23W/45W	MVOLT	
U1	OUTDOOR ROUND LED LIGHT, CEILING MOUNT	KENALL	MR13FFL PP 10L40K MVOLT	13.0W	MVOLT	
V1	8' LED STRIP LIGHT, DAMP LISTED, PENDANT	LITHONIA	CLX L96 10000LM HEF RDL MVOLT GZ1 35K 80CRI	60.6W	MVOLT	
V2	8' LED STRIP LIGHT, DAMP LISTED, PENDANT	LITHONIA	CLX L96 18000LM HEF RDL MVOLT GZ1 35K 80CRI	115.0W	MVOLT	
V3	4' LED STRIP LIGHT, DAMP LISTED, PENDANT	LITHONIA	CLX L48 4000LM HEF RDL MVOLT GZ1 35K 80CRI	23.8W	MVOLT	
V4	4' LED STRIP LIGHT, DAMP LISTED, SURFACE MOUNT	LITHONIA	CLX L48 5000LM HEF RDL MVOLT GZ1 35K 80CRI	30.3W	MVOLT	
V5	4' LED STRIP LIGHT, DAMP LISTED, SURFACE MOUNT	LITHONIA	CLX L48 4000LM HEF RDL MVOLT GZ1 35K 80CRI	23.8W	MVOLT	
W1	LED WALL SCONCE, WALL MOUNT	LITHONIA	WST LED P2 40K VF MVOLT	25.0W	MVOLT	
X1	LED EXIT SIGN, WALL MOUNT	LITHONIA	LQC R	0.7W	MVOLT	
X2	LED EXIT SIGN, CEILING MOUNT	LITHONIA	LQC R	0.7W	MVOLT	
X3	LED EXIT SIGN, WET LISTED, WALL MOUNT	LITHONIA	WLTE GY R	2.7W	MVOLT	
Y1	4' LED WRAPAROUND LIGHT, WALL MOUNT	PAL	AS350 HO K35 80 4 W LOH UNV DIM1 (DUAL DRIVER)	28.0W	MVOLT	1
Y2	4' LED WRAPAROUND LIGHT, WET LISTED, WALL MOUNT	LITHONIA	FML4W 48 5000LM 835 ZT MVOLT (DUAL DRIVER)	53.4W	MVOLT	1

LIGHTING FIXTURE SCHEDULE NOTES:

PROVIDE FIXTURE WITH BRANCH CIRCUITY FROM BOTH A NORMAL AND LIFE SAFETY POWER SOURCE. EMERGENCY CIRCUIT INDICATED ON DRAWINGS. SOURCE NORMAL POWER FROM LOCAL LIGHTING CIRCUIT.
 COORDINATE INSTALLATION OF LIGHTING FIXTURE WITH ARCHITECTURAL GRID SYSTEM. PROVIDE INSTALLATION UNDER SUPERVISION OF GENERAL CONTRACTOR.
 COORDINATE LENGTHS OF FIXTURES WITH CONTRACT DRAWINGS.

<u>SEQUENCE – TYPICAL CLASSROOM</u> 1. VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURE

- 2. DAYLIGHT SENSOR(S) TO ACTUATE PRESET DIMMING L FIXTURES ONLY, BASED ON DAYLIGHT AVAILABLE IN S FUNCTIONALITY.
- 3. (2) 3 BUTTON WALL STATION: BUTTON 1-1: ON/OFF CONTROL OF GENERAL ILLUMIN BUTTON 1-2: DIM UP OF GENERAL ILLUMINATION FIXT BUTTON 1-3: DIM DOWN OF GENERAL ILLUMINATION F BUTTON 2-1: ON/OFF CONTROL OF TEACHER'S LIGHT
- BUTTON 2-2: DIM UP CONTROL OF TEACHER'S LIGHT BUTTON 2-3: DIM DOWN CONTROL OF TEACHER'S LIG SEQUENCE - TYPICAL OFFICE

1. OCCUPANCY SENSOR(S) FOR AUTO-ON/OFF OF ALL F

- DELAY. 2. (2) 3 BUTTON WALL STATION: BUTTON 1: ON/OFF CONTROL OF GENERAL ILLUMINATI BUTTON 2: DIM UP OF GENERAL ILLUMINATION FIXTUR BUTTON 3: DIM DOWN OF GENERAL ILLUMINATION FIX
- <u>SEQUENCE TYPICAL CORRIDOR/BATHROOM/KITCHEN/SHOPS</u> 1. (2) DIGITAL KEY SWITCHES, ONE LABELED 'EMERGENC SWITCH 1: ON/OFF CONTROL OF GENERAL ILLUMINATI SWITCH 2: ON/OFF CONTROL OF EMERGENCY ILLUMIN
- <u>SEQUENCE TYPICAL STORAGE</u> 1. OCCUPANCY SENSOR(S) FOR AUTO-ON/OFF OF ALL F
- DELAY.
 (1) 2 BUTTON WALL STATION:
- BUTTON 1: ON CONTROL OF GENERAL ILLUMINATION F BUTTON 2: OFF CONTROL OF GENERAL ILLUMINATION

LIGHTING FIXTURE SCHEDULE

LIGHTING SEQUENCE OF OPERATION

RES AFTER 30 MIN. TIME DELAY. LEVEL FOR GENERAL ILLUMINATION SPACE, WITH DIM-TO-OFF	SEQUENCE – TYPICAL ELECTRICAL/MECHANICAL SPACE 1. (1) 2 BUTTON WALL STATION: BUTTON 1: ON/OFF CONTROL OF GENERAL ILLUMINATION FIXTURES. BUTTON 2: ON/OFF CONTROL OF EMERGENCY ILLUMINATION FIXTURES.
INATION FIXTURES. XTURES. FIXTURES. IT FIXTURE (4' SEGMENT). T FIXTURE (4' SEGMENT). IGHT FIXTURE (4' SEGMENT). FIXTURES AFTER 30 MIN. TIME	 <u>SEQUENCE - BARBERING, COSMETOLOGY, FASHION LAB</u> VACANCY SENSOR(S) FOR AUTO-OFF OF ALL FIXTURES AFTER 30 MIN. TIME DELAY. DAYLIGHT SENSOR(S) TO ACTUATE PRESET DIMMING LEVEL FOR GENERAL ILLUMINATION FIXTURES ONLY, BASED ON DAYLIGHT AVAILABLE IN SPACE, WITH DIM-TO-OFF FUNCTIONALITY. 3 BUTTON WALL STATION: BUTTON 1: ON/OFF CONTROL OF GENERAL ILLUMINATION FIXTURES. BUTTON 2: DIM UP OF GENERAL ILLUMINATION FIXTURES. BUTTON 3: DIM DOWN OF GENERAL ILLUMINATION FIXTURES. 4. PROVIDE ADDITIONAL 2 BUTTON STATION(S) FOR ON/OFF CONTROL OF TRACK
TION FIXTURES. JRES. XTURES. <u>PS/LOCKER ROOMS/CULINARY</u> ICY': TION FIXTURES. NATION FIXTURES.	 SEQUENCE - CAFETERIA OCCUPANCY SENSOR(S) FOR AUTO-ON/OFF OF ALL FIXTURES AFTER 30 MIN. TIME DELAY. GRAPHIC WALL PANEL CONTROLLER: PROVIDE FOUR ZONES OF LIGHTING CONTROL FOR GENERAL & EMERGENCY FIXTURES. (2) DIGITAL KEY SWITCHES, ONE LABELED 'EMERGENCY': SWITCH 1: ON/OFF CONTROL OF GENERAL ILLUMINATION FIXTURES. SWITCH 2: ON/OFF CONTROL OF EMERGENCY ILLUMINATION FIXTURES.
FIXTURES AFTER 15 MIN. TIME FIXTURES. I FIXTURES.	 GENERAL NOTES: ALL EMERGENCY WALL SWITCHES MUST BE PROPERLY IDENTIFIED AS 'EMERGENCY LIGHTING CONTROL' ON THE SWITCHES WALLPLATES. ALL EMERGENCY POWER PACKS/ROOM CONTROL MUST BE UL924 LISTED.

	Branch Panel: LP1-A	AS1											Branch Panel: LP1-	AS1									
					Volts: Phases: Wires:	120/240 Sing 1 3	gle			A.I.C. Rating: 14,000			Location: AUTO TE Supply From: T50 - LP1 Mounting: SURFAC	ECH SHOP ⁻ I-AS1 E	17		Volts: Phases: Wires:	120/240 Sing 1 3	le		م M	LI.C. Rating: 14,000 Mains Type: 300 A MCB ains Rating: 300	
скт	Circuit Description	Trip	Poles		A		В	Poles	Trip	Circuit Description	скт	скт	Circuit Description	Trip	Poles	A		E	В	Poles	Trip	Circuit Description	СКТ
41	RECEPT AUTO TECH SHOP 117	20	1	720 VA	720 VA			1	20	CORD REEL - AUTO TECH SHOP 117	42	1	A010 - WELDER	50	2	4740 VA	4740 VA			2	50	A010 - WELDER	2
43	CORD REEL - AUTO TECH SHOP 117	20	1			720 VA	1200 VA	1	20	A011 - A/C MACHINE	44	3						4740 VA	4740 VA				4
45	A013 - PARTS WASHER	20	1	1200 VA	1200 VA	-		1	20	A013 - PARTS WASHER	46	5	A010 - WELDER	50	2	4740 VA	3120 VA			2	40	A018 - SCISSOR LIFT	6
47	A013 - PARTS WASHER	20	1			1200 VA	1440 VA	1	20	A020 - BENCH GRINDER	48	7						4740 VA	3120 VA				8
49	A020 - BENCH GRINDER	20	1	1440 VA	720 VA	-		1	20	CORD REELS - AUTO TECH SHOP 117	50	9	A018 - SCISSOR LIFT	40	2	3120 VA	3600 VA			2	40	A021 - POST LIFT	10
51	CORD REELS - AUTO TECH SHOP 117	20	1			720 VA	720 VA	1	20	CORD REELS - AUTO TECH SHOP 117	52	11						3120 VA	3600 VA				12
53	RECEPT AUTO TECH SHOP 117	20	1	1800 VA	260 VA	-		1	20	RECEPT WATER COOLER	54	13	A021 - POST LIFT	40	2	3600 VA	3600 VA			2	40	A021 - POST LIFT	14
55	OVERHEAD DOOR	20	1			864 VA	864 VA	1	20	OVERHEAD DOOR	56	15						3600 VA	3600 VA				16
57	OVERHEAD DOOR	20	1	864 VA	864 VA	-		1	20	OVERHEAD DOOR	58	17	A014A - TIRE CHANGER	30	2	2760 VA	720 VA			2	20	A014 - TIRE CHANGER	18
59	OVERHEAD DOOR	20	1			864 VA	864 VA	1	20	OVERHEAD DOOR	60	19						2760 VA	720 VA				20
61	RECEPT EXTERIOR	20	1	540 VA	0 VA			1	20	SPARE	62	21	A015 - WHEEL BALANCER	20	2	1200 VA	1200 VA			2	20	A015 - WHEEL BALANCER	22
63	SPARE	20	1			0 VA	0 VA	1	20	SPARE	64	23						1200 VA	1200 VA				24
65	SPARE	20	1	0 VA	0 VA	-		1	20	SPARE	66	25	A017 - OIL FILTER CRUSHER	20	2	1200 VA	360 VA			2	20	A019 - SCISSOR LIFT (HEAD-END)	26
67	SPARE	20	1			0 VA	0 VA	1	20	SPARE	68	27						1200 VA	360 VA				28
69	SPACE		1					1		SPACE	70	29	A019 - SCISSOR LIFT (HEAD-END)	20	2	360 VA	900 VA			2	20	A026 - BRAKE LATHE	30
71	SPACE		1					1		SPACE	72	31						360 VA	900 VA				32
73	SPACE		1					1		SPACE	74	33	SPARE	20	2	0 VA	0 VA			2	20	SPARE	34
75	SPACE		1					1		SPACE	76	35						0 VA	0 VA				36
77	SPACE		1					1		SPACE	78	37	SPARE	20	2	0 VA	0 VA			2	20	SPARE	38
79	SPACE		1					1		SPACE	80	39						0 VA	0 VA				40
	•	Т	otal Load:	1032	28 VA	945	6 VA							T	otal Load:	5028	3 VA	4941	6 VA			•	
		То	tal Amps:	86	6.1	78	8.8	_						То	tal Amps:	419	9.1	41	1.8	-			
												Natas											

	Branch Panel: N Location: EL Supply From: DF Mounting: SU	1P1-1 EC RM 112 PL1-1 JRFACE	T			Volts: Phases: Wires:	120/208 W 3 4	ye			A.I.C. Main Mains	Rating: 10,000 s Type: 100 A MCB Rating: 100	
скт	Circuit Description	Trip	Poles		Ą	E	3		0	Poles	Trip	Circuit Description	скт
1	ISUs - AREA ONE	20	2	324.5 VA	914.6 VA					1	20	CUH-As & UH-A	2
3						324.5 VA	1332 VA			1	20	CUH-A & CUH-B	4
5	ISUs - AREA TWO	20	2					299.5 VA	1332 VA	1	20	CUH-A & CUH-B	6
7				299.5 VA	951.6 VA					1	20	CUH-C & UH-A	8
9	SPARE	20	2			0 VA	768 VA			1	20	GWH-2 & PP-2	10
11								0 VA	768 VA	1	20	GWH-3A & PP-3A	12
13	ISU-HG-C102A	15	2	540.8 VA	768 VA					1	20	GWH-3B & PP-3B	14
15						540.8 VA	600 VA			1	20	GWH-4	16
17	ISU-HG-C102B	15	2					540.8 VA	81.6 VA	1	20	AC-DRYER	18
19				540.8 VA	180 VA					1	20	F-R-108	20
21	SPARE	15	2			0 VA	360 VA			1	20	CP-A-108	22
23								0 VA	180 VA	1	20	RECEPT MAINTENANCE	24
25	AC-1	35	3	2101.6 VA	0 VA					1	20	SPARE	26
27						2101.6 VA	0 VA			1	20	SPARE	28
29								2101.6 VA	0 VA	1	20	SPARE	30
		Tota Tota	al Load: I Amps:	662 ⁻ 56	1 VA 5.1	6027 51	.2	5303 44	3 VA 1.2				

	Location: CORRI Supply From: DPL1-1 Mounting: SURFA	DOR C1 I ACE	02			Volts: Phases: Wires:	120/208 Wy 3 4	ye			A.I.C. Mair Mains	Rating: 10,000 ns Type: 100 A MCB Rating: 100
скт	Circuit Description	Trip	Poles		A	E	3		C	Poles	Trip	Circuit Descript
1	RECEPT BARBERING & SECURITY	20	1	1260 VA	1100 VA					1	20	RECEPT CORR, STAIR, V
3	RECEPT CLASSROOM 109	20	1			1260 VA	1260 VA			1	20	RECEPT CLASSROOM 10
5	HAND DRYER (SINK) - MEN'S T102	20	1					1500 VA	1500 VA	1	20	HAND DRYER (SINK) - MEN
7	HAND DRYER (SINK) - MEN'S T102	20	1	1500 VA	1500 VA					1	20	HAND DRYER (SINK) - MEN
9	HAND DRYER (SINK) - WOMEN'S T101	20	1			1500 VA	1500 VA			1	20	HAND DRYER (SINK) - WO
11	HAND DRYER (SINK) - WOMEN'S T101	20	1					1500 VA	1500 VA	1	20	HAND DRYER (SINK) - WO
13	RECEPT. & FLUSH TOILET	20	1	760 VA	520 VA					1	20	RECEPT WATER COOLE
15	SPARE	20	1			0 VA	0 VA			1	20	SPARE
17	SPARE	20	1					0 VA	0 VA	1	20	SPARE
19	SPARE	20	1	0 VA	0 VA					1	20	SPARE
21	SPARE	20	1			0 VA	0 VA			1	20	SPARE
23	SPARE	20	1					0 VA	0 VA	1	20	SPARE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
31	SPACE		1							1		SPACE
33	SPACE		1							1		SPACE
35	SPACE		1							1		SPACE
37	SPACE		1							1		SPACE
39	SPACE		1							1		SPACE
41	SPACE		1							1		SPACE
		Tota	I Load:	6640) VA	5520) VA	600	0 VA			
		Tota	Amps:	55	5.9	4	6	50	0.6	L		

Notes:

	Branch Panel: KP ²	1-1										
	Location: FOOD Supply From: DPL1-1 Mounting: SURFA	SERV. S ACE	TORAG	E 115A		Volts: Phases: Wires:	120/208 Wy 3 4	/e			A.I.C. Mair Mains	Rating: 10,000 ns Type: 225A MCB Rating: 225
скт	Circuit Description	Trip	Poles	A	\	E	3		c	Poles	Trip	Circuit Description
1	K123 - WORK TABLE	30	1	2700 VA	912 VA					1	20	K100 - MILK COOLER
3	K123 - WORK TABLE	30	1			2700 VA	912 VA			1	20	K100 - MILK COOLER
5	K123 - WORK TABLE	30	1					2700 VA	500 VA	1	20	K103 - UTILITY COUNTER
7	K103 - UTILITY COUNTER	20	1	500 VA	936 VA					1	20	K104 - COLD FOOD STATION
9	K104 - COLD FOOD STATION	20	1			936 VA	500 VA			1	20	K106 - UTILITY COUNTER
11	K106 - UTILITY COUNTER	20	1					500 VA	500 VA	1	20	K109 - CASHIER STATION
13	K109 - CASHIER STATION	20	1	500 VA	180 VA					1	20	K112 - ROLL-THRU REFRIGERATOR
15	K117 - ROLL-IN REFRIGERATOR	20	1			1128 VA	1128 VA			1	20	K117 - ROLL-IN REFRIGERATOR
17	K120.1 - CONDENSATE HOOD	20	1					384 VA	1128 VA	1	20	K124 - REACH-IN FREEZER
19	RECEPT FOOD SERV.	20	1	900 VA	1260 VA					1	20	RECEPT VENDING 118A
21	RECEPT VENDING 118A	20	1			1260 VA	1260 VA			1	20	RECEPT VENDING 118A
23	RECEPT VENDING 118A	20	1					1260 VA	1260 VA	1	20	RECEPT VENDING 118A
25	RECEPT VENDING 118A	20	1	1260 VA	0 VA					1	20	SPARE
27	SPARE	20	1			0 VA	0 VA			1	20	SPARE
29	SPARE	20	1					0 VA	0 VA	1	20	SPARE
31	K101 - HOT FOOD STATION	20	2	1029.6 VA	1029.6 VA					2	20	K101 - HOT FOOD STATION
33						1029.6 VA	1029.6 VA					
35	K113 - ROLL-THRU HEATED CABINET	20	2					748.8 VA	748.8 VA	2	20	K115 - ROLL-IN HEATED CABINET
37				748.8 VA	748.8 VA							
39	K116 - ROLL-IN HEATED CABINET	20	2			1445.6 VA	0 VA			2	20	SPARE
41								1445.6 VA	0 VA			
	1	Tota	Load:	1270	5 VA	1332	9 VA	1117	75 VA			1
		Total	Amps:	107	7.8	1^	13	93	3.1	J		

	Location: DISF Supply From: DPL Mounting: SUR	PENSING 1 1-1 FACE	08A			Volts: Phases: Wires:	120/208 Wy 3 4	ye			A.I.C. Mair Mains	Rating: 10,000 ns Type: 225A MCB Rating: 225
скт	Circuit Description	Trip	Poles	Ļ	A	E	3		C	Poles	Trip	Circuit Descrip
1	RECEPT STYLING STATION	20	1	1800 VA	1800 VA					1	20	RECEPT STYLING STAT
3	RECEPT STYLING STATION	20	1			1800 VA	1800 VA			1	20	RECEPT STYLING STAT
5	RECEPT STYLING STATION	20	1					1800 VA	1800 VA	1	20	RECEPT STYLING STAT
7	RECEPT STYLING STATION	20	1	1800 VA	1800 VA					1	20	RECEPT STYLING STAT
9	RECEPT STYLING STATION	20	1			1800 VA	1800 VA			1	20	RECEPT STYLING STAT
11	RECEPT STYLING STATION	20	1					1800 VA	1800 VA	1	20	RECEPT STYLING STAT
13	RECEPT STYLING STATION	20	1	1800 VA	1800 VA					1	20	RECEPT STYLING STAT
15	RECEPT STYLING STATION	20	1			1800 VA	1800 VA			1	20	RECEPT STYLING STAT
17	RECEPT STYLING STATION	20	1					1800 VA	1800 VA	1	20	RECEPT STYLING STAT
19	RECEPT STYLING STATION	20	1	1800 VA	1800 VA					1	20	RECEPT STYLING STAT
21	RECEPT STYLING STATION	20	1			1800 VA	1800 VA			1	20	RECEPT STYLING STAT
23	RECEPT STYLING STATION	20	1					1800 VA	1800 VA	1	20	RECEPT STYLING STAT
25	RECEPT STYLING STATION	20	1	1800 VA	500 VA					1	20	RECEPT WAXING TABL
27	RECEPT FACIAL STATION	20	1			1400 VA	1200 VA			1	20	RECEPT PEDICURE STA
29	RECEPT PEDICURE STATION	20	1					1200 VA	1080 VA	1	20	RECEPT GENERAL
31	RECEPT WASHER	20	1	800 VA	900 VA					1	20	RECEPT GENERAL
33	RECEPT DRYER	30	2			2000 VA	0 VA			1	20	SPARE
35								2000 VA	0 VA	1	20	SPARE
37	SPARE	20	1	0 VA	0 VA					1	20	SPARE
39	SPARE	20	1			0 VA	0 VA			1	20	SPARE
41	SPARE	20	1					0 VA	0 VA	1	20	SPARE
	1	Tota	Load:	1840	0 VA	1900	0 VA	1868	O VA			1
		Tota	Amps:	15	3.3	15	8.7	1:	56			

	Branch Panel: LP1	-2										
	Location: CORRIE Supply From: DPL1-1 Mounting: SURFAG	DOR C1 CE	01			Volts: Phases: Wires:	120/208 Wy 3 4	ye			A.I.C. Mair Mains	Rating: 10,000 ns Type: 225A MCB Rating: 225
скт	Circuit Description	Trip	Poles		Ą		В		C	Poles	Trip	Circuit Descrip
1	HAND DRYER (SINK) - TOILET T103	20	1	1500 VA	770 VA					1	20	RECEPT. & FLUSH TLT
3	RECEPT GROOMING TABLE	20	1			1080 VA	1620 VA			1	20	RECEPT GROOMING TA
5	RECEPT GROOMING TABLE	20	1					1080 VA	360 VA	1	20	RECEPT ULTRASOUND
7	RECEPT VET TECH 104	20	1	1080 VA	800 VA					1	20	RECEPT WASHER
9	RECEPT GROOMING & STORAGE	20	1			900 VA	720 VA			1	20	RECEPT LOCKED STOP
11	RECEPT GROOMING TABLE	20	1					1620 VA	1080 VA	1	20	RECEPT GROOMING TA
13	RECEPT GROOMING TABLE	20	1	1080 VA	1260 VA					1	20	RECEPT CLASSROOM
15	RECEPT HEALTH, TOILET, STOR	20	1			1310 VA	1500 VA			1	20	HAND DRYER (SINK) - TO
17	RECEPT HEALTH OFFICE 101	20	1					1440 VA	180 VA	1	20	RECEPT REFRIGERATO
19	RECEPT CAFETERIA 116	20	1	1440 VA	1260 VA					1	20	RECEPT CAFETERIA 11
21	RECEPT. & FLUSH - PASS, LOCK, & TLT	20	1			950 VA	1260 VA			1	20	RECEPT CORRIDOR &
23	RECEPT CORRIDOR C101	20	1					720 VA	1440 VA	1	20	RECEPT OFFICES
25	HAND DRYER (SINK) - TOILET 119C	20	1	1500 VA	1500 VA					1	20	HAND DRYER (SINK) - TO
27	RECEPT. & FLUSH - CORR, VEST, TLT	20	1			1180 VA	1500 VA			1	20	HAND DRYER (SINK) - TO
29	RECEPT SECURITY & MEETING ROOM	20	1					720 VA	720 VA	1	20	RECEPT AUTOBODY OF
31	RECEPT FRONT OFFICE	20	1	1080 VA	900 VA					1	20	RECEPT OFFICE 100C
33	RECEPT WB LEARNING 100J	20	1			1440 VA	900 VA			1	20	RECEPT OFFICE 100D
35	SPARE	20	1					0 VA	0 VA	1	20	SPARE
37	SPARE	20	1	0 VA	0 VA					1	20	SPARE
39	SPARE	20	1			0 VA	0 VA			1	20	SPARE
41	SPARE	20	1					0 VA	0 VA	1	20	SPARE
43	SPACE		1		0 VA					2	20	SPARE
45	SPACE		1				0 VA					
47	SPACE		1						1500 VA	2	20	RECEPT COPIER
49	SPACE		1		1500 VA							
51	SPACE		1				2000 VA			2	30	RECEPT DRYER
53	SPACE		1						2000 VA			
	1	Tota	Load:	1567	0 VA	1636	O VA	1286	SO VA			1
		Tota	Amps:	13	4.2	13	9.9	10	7.2			

	Location: ELEC Supply From: MS-1 Mounting: SURF,	RM 112 ACE				Volts: Phases: Wires:	480/277 Wy 3 4	/e			A.I.C. Main Mains	Rating: 14,000 s Type: 100 A MCB Rating: 100
скт	Circuit Description	Trip	Poles	A	N		3		C	Poles	Trip	Circuit Descrip
1	LIGHTING - BARBERING & CLASS.	20	1	1154.2 VA	1014 VA					1	20	LIGHTING - VET & GROOI
3	LIGHTING - COSMO. & CLASS.	20	1			1457.1 VA	1119.4 VA			1	20	LIGHTING - CLASS. & HE/
5	LIGHTING - CORR., STOR. & TOILETS	20	1					536.8 VA	341.8 VA	1	20	LIGHTING - FOOD SERV.
7	LIGHTING - AUTO TECH SHOP 117	20	1	2594.2 VA	690.4 VA					1	20	LIGHTING - WELDING SH
9	LIGHTING - AUTOBODY SHOP 120	20	1			1776 VA	1389.9 VA			1	20	LIGHTING - CORR., STOR
11	SITE LIGHTING - POLES	20	1					857 VA	293 VA	1	20	SITE LIGHTING - BUILDIN
13	SPARE	20	1	0 VA	0 VA					1	20	SPARE
15	SPARE	20	1			0 VA	0 VA			1	20	SPARE
17	SPARE	20	1					0 VA	0 VA	1	20	SPARE
19	SPACE		1							1		SPACE
21	SPACE		1							1		SPACE
23	SPACE		1							1		SPACE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
		Tota	al Load:	5453	3 VA	5742	2 VA	202	9 VA			
		Tota	I Amps:	21	.6	22	2.6	7	.3	-		

	Location: DISPE Supply From: DPL1- Mounting: SURFA	NSING 1 1 ACE	10A			Volts: Phases: Wires:	120/208 Wy 3 4	/e			A.I.C. Main Mains	Rating: 10,000 s Type: 100 A MCB Rating: 100
скт	Circuit Description	Trip	Poles	ŀ	A	E	3		0	Poles	Trip	Circuit Descri
1	STYLING STATION - RECEPT. & LIGHT	20	1	1800 VA	1800 VA					1	20	STYLING STATION - REC
3	STYLING STATION - RECEPT. & LIGHT	20	1			1800 VA	1800 VA			1	20	STYLING STATION - REC
5	STYLING STATION - RECEPT. & LIGHT	20	1					1800 VA	1800 VA	1	20	STYLING STATION - REC
7	STYLING STATION - RECEPT. & LIGHT	20	1	1800 VA	1800 VA					1	20	STYLING STATION - REC
9	STYLING STATION - RECEPT. & LIGHT	20	1			1800 VA	1800 VA			1	20	STYLING STATION - REC
11	STYLING STATION - RECEPT. & LIGHT	20	1					1800 VA	1800 VA	1	20	STYLING STATION - REC
13	RECEPT GENERAL	20	1	900 VA	800 VA					1	20	RECEPT WASHING MA
15	SPARE	20	1			0 VA	2000 VA			2	30	RECEPT DRYER
17	SPARE	20	1					0 VA	2000 VA			
19	SPARE	20	1	0 VA	0 VA					1	20	SPARE
21	SPARE	20	1			0 VA	0 VA			1	20	SPARE
23	SPARE	20	1					0 VA		1		SPACE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
		Tota	al Load:	8900) VA	9200) VA	920	AV C			
		Tota	l Amps:	74	.2	77	' .1	77	7.1	-		

	Branch Panel: LP	H1-2										
	Location: ELEC. Supply From: DPH1- Mounting: SURF/	RM 126 2 ACE				Volts: Phases: Wires:	: 480/277 Wy : 3 : 4	/e			A.I.C. Main Mains	Rating: 14,000 s Type: 100 A MCB Rating: 100
скт	Circuit Description	Trip	Poles	Å	Ą		В		с	Poles	Trip	Circuit Desci
1	LIGHTING - GYMNASIUM	20	1	1176 VA	1651 VA					1	20	LIGHTING - CONST. & E
3	LIGHTING - GYMNASIUM	20	1			1176 VA	1090.8 VA			1	20	LIGHTING - PLUMBING
5	LIGHTING - LOCKER, BATH, BOILER	20	1					1140 VA	2102.8 VA	1	20	LIGHTING - FRONT OFF
7	LIGHTING - CORR., ELEC.	20	1	2246.8 VA	0 VA					1	20	SPARE
9	SITE LIGHTING - POLES	20	1			944 VA	0 VA			1	20	SPARE
11	SITE LIGHTING - BUILDING MOUNTED	20	1					203 VA	0 VA	1	20	SPARE
13	SPACE		1							1		SPACE
15	SPACE		1							1		SPACE
17	SPACE		1							1		SPACE
19	SPACE		1							1		SPACE
21	SPACE		1							1		SPACE
23	SPACE		1							1		SPACE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
		Tota	al Load:	5074	4 VA	321	1 VA	344	6 VA			ļ
		Tota	I Amps:	18	3.4	1	1.6	1	2.6	,		

Notes:

Branch Panel: LP1-	PS2										Bra	nch Panel: LP1-	PS1									
Location: PLUMBIN Supply From: LP1-PS1 Mounting: SURFAC	IG SHOP 124 E		Volts: Phases: Wires:	120/240 Sing 1 3	le		A.I.C. Ratir Mains Tyı Mains Ratir	ng: 14,000 pe: 60 A MCB ng: 100				Location: PLUMBING Supply From: T25 - LP1- Mounting: SURFACE	G SHOP 12 PS1	4		Volts: Phases: Wires:	120/240 Sing 1 3	gle		N	A.I.C. Rating: 14,000 Mains Type: 150 A MCB Iains Rating: 150	
CKT Circuit Description	Trip Poles		A		В	Poles	Trip	Circuit Description	СКТ	скт	r	Circuit Description	Trip	Poles	ŀ	A		В	Poles	Trip	Circuit Description	СКТ
1 SPARE	20 2	0 VA	0 VA			2	20 SPARE		2	1	RECEPT.	- PLUMBING SHOP 124	20	1	900 VA	180 VA			1	20	RECEPT MONITOR	2
3				0 VA	0 VA				4	3	RECEPT.	- WATER COOLER	20	1			260 VA	360 VA	1	20	RECEPT PLUMBING SHOP 124	4
5 SPARE	20 2	0 VA	0 VA			2	20 SPARE		6	5	CORD RE	EL - PLUMBING SHOP 124	20	1	720 VA	720 VA			1	20	CORD REEL - PLUMBING SHOP 124	6
7				0 VA	0 VA				8	7	CORD RE	EL - PLUMBING SHOP 124	20	1			720 VA	720 VA	1	20	CORD REEL - PLUMBING SHOP 124	8
9 SPARE	20 2	0 VA	0 VA			2	20 SPARE		10	9	CORD RE	EL - PLUMBING SHOP 124	20	1	720 VA	864 VA			1	20	OVERHEAD DOOR	10
11				0 VA	0 VA				12	11	SPARE		20	1			0 VA	0 VA	1	20	SPARE	12
13 SPARE	20 1	0 VA	0 VA			1	20 SPARE		14	13	SPARE		20	1	0 VA	0 VA			1	20	SPARE	14
15 SPARE	20 1			0 VA	0 VA	1	20 SPARE		16	15	SPARE		20	1			0 VA	0 VA	1	20	SPARE	16
17 SPARE	20 1	0 VA	0 VA			1	20 SPARE		18	17	SPACE			1					1		SPACE	18
19 SPARE	20 1			0 VA	0 VA	1	20 SPARE		20	19	SPACE			1					1		SPACE	20
21 SPARE	20 1	0 VA	0 VA			1	20 SPARE		22	21	SPACE			1		0 VA			2	60	LP1-PS2	22
23 SPARE	20 1			0 VA	0 VA	1	20 SPARE		24	23	SPACE			1				0 VA				24
	Total Load:	0	VA	0	VA		1						Тс	tal Load:	4104	1 VA	206	0 VA				
	Total Amps:	()		0	_							Tot	al Amps:	34	.2	17	7.2	-			
Notes:										Notes	5:											

| Location: WELDING S
Supply From: T50 - LP1-W
Mounting: SURFACE
Circuit Description
- TIG WELDER
MIG WELDER
MIG WELDER | HOP 119
S
Trip
50

40

40 | Poles
2

2

 | 4
3450 VA | Volts:
Phases:
Wires:
A
1440 VA | 120/240 Single
1
3
B | le
3 | Poles | M

 | LI.C. Rating: 14,000
Mains Type: 300 A MCB
ains Rating: 300

 | | | Location: WE
Supply From: DP
Mounting: SU

 | ELDING SHO
H1-1
RFACE | P 119 | |
 | Volts:
Phases:
Wires: | 480/277 Wy
3
4 | /e
 | | | A.I.C. Ratin
Mains Typ
Mains Ratin | g: 14,000
e: 225 A MCB
g: 225
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---|---|---|---|
| Circuit Description - TIG WELDER MIG WELDER MIG WELDER | Trip
50

40

40 | Poles
2

2

 | 4
3450 VA | a
1440 VA | В | 3 | Poles |

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 | | |
 | | | |
 |
| - TIG WELDER
MIG WELDER
MIG WELDER | 50

40

40 | 2

2

 | 3450 VA | 1440 VA | | | 1 0100 | Trip

 | Circuit Description

 | скт | скт | Circuit Description

 | Trip | Poles | | A
 | | В |
 | С | Poles | Trip | Circuit Descri _l
 |
| MIG WELDER
MIG WELDER |
40

40 |
2

 | | | | | 2 | 20

 | A045 - VERTICAL BAND SAW

 | 2 | 1 | A030A - MIG WELDER

 | 40 | 2 | 6000 VA | 6000 VA
 | | |
 | | 2 | 40 A030 | A - MIG WELDER
 |
| MIG WELDER
MIG WELDER | 40

40 | 2

 | | | 3450 VA | 1440 VA | |

 |

 | 4 | 3 |

 | | | |
 | 6000 VA | 6000 VA |
 | | | |
 |
| |
40 |

 | 2587.5 VA | 2587.5 VA | | | 2 | 40

 | A030 - MIG WELDER

 | 6 | 5 | A030B - MIG WELDER

 | 40 | 2 | |
 | | | 6480 VA
 | 6480 VA | 2 | 40 A030 | B - MIG WELDER
 |
| MIG WELDER | 40 |

 | | | 2587.5 VA | 2587.5 VA | |

 |

 | 8 | 7 |

 | | | 6480 VA | 6480 VA
 | | |
 | | | |
 |
| | 10 | 2

 | 2587.5 VA | 2400 VA | | | 2 | 30

 | A051 - HYDRAULIC IRONWORKER

 | 10 | 9 | A030B - MIG WELDER

 | 40 | 2 | |
 | 6480 VA | 6480 VA |
 | | 2 | 40 A030 | B - MIG WELDER
 |
| | |

 | | | 2587.5 VA | 2400 VA | |

 |

 | 12 | 11 |

 | | | |
 | | | 6480 VA
 | 6480 VA | | |
 |
| DRILL PRESS | 20 | 1

 | 1680 VA | 1680 VA | | | 1 | 20

 | A034 - DRILL PRESS

 | 14 | 13 | A039 - TIG WELDER

 | 70 | 2 | 11280 VA | 0 VA
 | | |
 | | 2 | 20 SPAF | ₹E
 |
| A040A - WELDER HOOD (MISC.) | 20 | 1

 | | | 1080 VA | 720 VA | 1 | 20

 | A040 & A040A - WELDER HOOD (MISC.)

 | 16 | 15 |

 | | | |
 | 11280 VA | 0 VA |
 | | | |
 |
| A040A - WELDER HOOD (MISC.) | 20 | 1

 | 540 VA | 1260 VA | | | 1 | 20

 | A040A & A044 - WELDER HOOD (MISC.)

 | 18 | 17 | A039 - TIG WELDER

 | 70 | 2 | |
 | | | 11280 VA
 | 0 VA | 2 | 20 SPAF | ₹E
 |
| MANUAL COLD SAW | 20 | 1

 | | | 1200 VA | 1320 VA | 1 | 20

 | A048 - GRINDER W/ BELT SANDER

 | 20 | 19 |

 | | | 11280 VA | 0 VA
 | | |
 | | | |
 |
| GRINDER W/ BELT SANDER | 20 | 1

 | 1320 VA | 1920 VA | | | 1 | 20

 | A050 - HORIZONTAL BANDSAW

 | 22 | 21 | A039 - TIG WELDER

 | 70 | 2 | |
 | 11280 VA | 0 VA |
 | | 2 | 20 SPAF | ₹E
 |
| ING FILTRATION CONTROL PANEL | 20 | 1

 | | | 5 VA | 720 VA | 1 | 20

 | CORD REEL - WELDING SHOP 119

 | 24 | 23 |

 | | | |
 | | | 11280 VA
 | 0 VA | | |
 |
| REEL - WELDING SHOP 119 | 20 | 1

 | 720 VA | 720 VA | | | 1 | 20

 | CORD REEL - WELDING SHOP 119

 | 26 | 25 | A042 - PLASMA CUTTER

 | 30 | 3 | 4988.3 VA | 5265.4 VA
 | | |
 | | 3 | 35 A055 | - STICK-TIG WELDE
 |
| PT WELDING SHOP 119 | 20 | 1

 | | | 1080 VA | 260 VA | 1 | 20

 | RECEPT WATER COOLER

 | 28 | 27 |

 | | | |
 | 4988.3 VA | 5265.4 VA |
 | | | |
 |
| HEAD DOOR | 20 | 1

 | 864 VA | 0 VA | | | 1 | 20

 | SPARE

 | 30 | 29 |

 | | | |
 | | | 4988.3 VA
 | 5265.4 VA | | |
 |
| 9F | 20 | 1

 | | | 63.6 VA | 0 VA | 1 | 20

 | SPARE

 | 32 | 31 | A055 - STICK-TIG WELDER

 | 35 | 3 | 5265.4 VA | 5265.4 VA
 | | |
 | | 3 | 35 A055 | - STICK-TIG WELDE
 |
| Ξ | 20 | 1

 | 0 VA | 0 VA | | | 1 | 20

 | SPARE

 | 34 | 33 |

 | | | |
 | 5265.4 VA | 5265.4 VA |
 | | | |
 |
| Ξ | 20 | 1

 | | | 0 VA | 0 VA | 1 | 20

 | SPARE

 | 36 | 35 |

 | | | |
 | | | 5265.4 VA
 | 5265.4 VA | | |
 |
| Ξ | 20 | 1

 | 0 VA | 0 VA | | | 1 | 20

 | SPARE

 | 38 | 37 | A055 - STICK-TIG WELDER

 | 35 | 3 | 5265.4 VA | 5265.4 VA
 | | |
 | | 3 | 35 A055 | - STICK-TIG WELDE
 |
| Ξ | 20 | 1

 | | | 0 VA | 0 VA | 1 | 20

 | SPARE

 | 40 | 39 |

 | | | |
 | 5265.4 VA | 5265.4 VA |
 | | | |
 |
| | Tot | al Load:

 | 2575 | 7 VA | 21501 | 1 VA | |

 |

 | | 41 |

 | | | |
 | | | 5265.4 VA
 | 5265.4 VA | | |
 |
| | Tota | al Amps:

 | 214 | 4.6 | 179 | 9.2 | - |

 |

 | | 43 | A055 - STICK-TIG WELDER

 | 35 | 3 | 5265.4 VA | 5265.4 VA
 | | |
 | | 3 | 35 A055 | - STICK-TIG WELDE
 |
| | |

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 |

 | | 45 |

 | | | |
 | 5265.4 VA | 5265.4 VA |
 | | | |
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| | |

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 |

 | | 47 |

 | | | |
 | | | 5265.4 VA
 | 5265.4 VA | | |
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| | |

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 | | 49 | A049 - GRINDING TABLE

 | 20 | 3 | 1496.5 VA | 1496.5 VA
 | | |
 | | 3 | 20 A049 | - GRINDING TABLE
 |
| | |

 | | | | | |

 |

 | | 51 |

 | | | |
 | 1496.5 VA | 1496.5 VA |
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 | Tota | I Load: | 9235 | 9 VA
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 | Total | Amps: | 33 | 3.4
 | 33 | 3.4 | 33
 | 6.9 | | |
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| | DRILL PRESS
A040A - WELDER HOOD (MISC.)
A040A - WELDER HOOD (MISC.)
MANUAL COLD SAW
GRINDER W/ BELT SANDER
ING FILTRATION CONTROL PANEL
REEL - WELDING SHOP 119
PT WELDING SHOP 119
HEAD DOOR
9F
E
E
E
E | DRILL PRESS20A040A - WELDER HOOD (MISC.)20A040A - WELDER HOOD (MISC.)20MANUAL COLD SAW20GRINDER W/ BELT SANDER20ING FILTRATION CONTROL PANEL20REEL - WELDING SHOP 11920PT WELDING SHOP 11920HEAD DOOR209F20E20E20E20E20C20 <t< td=""><td>DRILL PRESS 20 1 A040A - WELDER HOOD (MISC.) 20 1 A040A - WELDER HOOD (MISC.) 20 1 MANUAL COLD SAW 20 1 GRINDER W/ BELT SANDER 20 1 ING FILTRATION CONTROL PANEL 20 1 REEL - WELDING SHOP 119 20 1 PT WELDING SHOP 119 20 1 9F 20 1 E 20 1</td><td>DRILL PRESS 20 1 1000 VA A 040A - WELDER HOOD (MISC.) 20 1 540 VA MANUAL COLD SAW 20 1 1320 VA GRINDER W/ BELT SANDER 20 1 1320 VA ING FILTRATION CONTROL PANEL 20 1 720 VA REEL - WELDING SHOP 119 20 1 720 VA PT WELDING SHOP 119 20 1 864 VA 9F 20 1 0 VA E 20 1 0 VA E 20 1 0 VA E 20 1 2575 Total Load: 2575 214</td><td>DRILL PRESS 20 1 1080 VA 1080 VA A040A - WELDER HOOD (MISC.) 20 1 540 VA 1260 VA A040A - WELDER HOOD (MISC.) 20 1 540 VA 1260 VA MANUAL COLD SAW 20 1 540 VA 1260 VA GRINDER W/ BELT SANDER 20 1 1320 VA 1920 VA ING FILTRATION CONTROL PANEL 20 1 720 VA 720 VA REEL - 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PLASIMA CUTTER 23 E 20 1 0 VA 0 VA 1 20 SPARE 30 31 305 - 5TICK-TIG WELDER GRINDER VIDEL 20 1 0 VA 0 VA</td><td>DRILL PRESS 20 1 1080 VA 1080 VA 1080 VA 20 1 20 A040 A. 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Bra	anch Panel: LP1-	HS2										Br	anch Panel: LP1-	HS1									
	Location: HVAC SH Supply From: LP1-HS1 Mounting: SURFAC	OP 125			Volts: Phases: Wires:	: 120/240 Sing : 1 : 3	le		A.I.C Main Mains	Rating: 14,000 is Type: 60 A MCB Rating: 100			Location: HVAC SHO Supply From: T25 - LP1- Mounting: SURFACE	OP 125 HS1			Volts: Phases: Wires:	120/240 Sing 1 3	le		N	A.I.C. Rating: 14,000 Mains Type: 150 A MCB Mains Rating: 150	
СКТ	Circuit Description	Trip	Poles		4		В	Poles	Trip	Circuit Description	скт	скт	Circuit Description	Trip	Poles		A		3	Poles	Trip	Circuit Description	скт
1 SPARE	•	20	2	0 VA	0 VA			2	20 SF	ARE	2	1 RECEP	T HVAC SHOP 125	20	1	540 VA	180 VA			1	20	RECEPT MONITOR	2
3						0 VA	0 VA				4	3 RECEP	T WATER COOLER	20	1			260 VA	360 VA	1	20	RECEPT HVAC SHOP 125	4
5 SPARE		20	2	0 VA	0 VA			2	20 SF	ARE	6	5 CORD F	REEL - HVAC SHOP 125	20	1	720 VA	720 VA			1	20	CORD REEL - HVAC SHOP 125	6
7						0 VA	0 VA				8	7 CORD F	REEL - HVAC SHOP 125	20	1			720 VA	720 VA	1	20	CORD REEL - HVAC SHOP 125	8
9 SPARE		20	2	0 VA	0 VA			2	20 SP	ARE	10	9 H006 - S	SOLDERING FUME EXTRACTOR	20	1	60 VA	2160 VA			1	25	H008 - DRILL PRESS	10
11						0 VA	0 VA				12	11 OVERH	EAD DOOR	20	1			864 VA	864 VA	1	20	OVERHEAD DOOR	12
13 SPARE		20	1	0 VA	0 VA			1	20 SF	ARE	14	13 SPARE		20	1	0 VA	0 VA			1	20	SPARE	14
15 SPARE		20	1			0 VA	0 VA	1	20 SF	ARE	16	15 SPARE		20	1			0 VA	0 VA	1	20	SPARE	16
17 SPARE		20	1	0 VA	0 VA			1	20 SF	ARE	18	17 SPACE			1					1		SPACE	18
19 SPARE		20	1			0 VA	0 VA	1	20 SF	ARE	20	19 SPACE			1					1		SPACE	20
21 SPARE		20	1	0 VA	0 VA			1	20 SF	ARE	22	21 SPACE			1		0 VA			2	60	LP1-HS2	22
23 SPARE		20	1			0 VA	0 VA	1	20 SF	ARE	24	23 SPACE			1				0 VA				24
		Το	tal Load:	0 '	VA	0	VA							То	tal Load:	438	30 VA	378	B VA				

	Location: E Supply From: D Mounting: S	BOILER RM 123 DPH1-1 SURFACE	3			Volts: Phases: Wires:	480/277 W 3 4	ye			A.I.C Main Mains	. Rating: 14,000 ns Type: 225 A MCB Rating: 225	
скт	Circuit Description	Trip	Poles		A	1	В		C	Poles	Trip	Circuit Description	скт
1	P-B-1	60	3	7482.5 VA	7482.5 VA					3	60	P-B-2	2
3						7482.5 VA	7482.5 VA						4
5								7482.5 VA	7482.5 VA				6
7	*** B-A-1	20	3	1662.8 VA	1662.8 VA					3	20	*** B-A-2	8
9						1662.8 VA	1662.8 VA						10
11								1662.8 VA	1662.8 VA				12
13	*** B-A-3	20	3	1662.8 VA	3048.4 VA					3	20	P-C-1	14
15						1662.8 VA	3048.4 VA						16
17								1662.8 VA	3048.4 VA				18
19	P-C-2	20	3	3048.4 VA	0 VA					3	20	SPARE	20
21						3048.4 VA	0 VA						22
23								3048.4 VA	0 VA				24
25	P-A-1	15	3	1330.2 VA	1330.2 VA					3	15	P-A-2	26
27						1330.2 VA	1330.2 VA						28
29								1330.2 VA	1330.2 VA				30
31	P-A-3	15	3	1330.2 VA	0 VA					3	15	SPARE	32
33						1330.2 VA	0 VA						34
35								1330.2 VA	0 VA				36
37	SPACE		1							1		SPACE	38
39	SPACE		1							1		SPACE	40
41	SPACE		1							1		SPACE	42
		Tota Tota	I Load: Amps:	3004 10	1 VA 8.5	3004 10	1 VA 8.5	3004 10	1 VA 8.5				

*** SHUNT TRIP BREAKER. COORDINATE WIRING WITH LOCAL EPO BUTTON FOR SHUTDOWN OF EQUIPMENT IN THE EVENT OF ACTIVATION.

	Location: AUTOBOD Supply From: T37.5 - LP Mounting: SURFACE	DY SHOP 1 1-AS2	20		Volts: Phases: Wires:	120/240 Sing 1 3	le		M	A.I.C. Rating: 14,000 Mains Type: 200 A MCB ains Rating: 200	
СКТ	Circuit Description	Trip	Poles		A	E	3	Poles	Trip	Circuit Description	СКТ
1	A021 - POST LIFT	40	2	3600 VA	2587.5 VA			2	30	A030 - MIG WELDER	2
3						3600 VA	2587.5 VA				4
5	A030 - MIG WELDER	30	2	2587.5 VA	720 VA			2	20	A014 - TIRE CHANGER	6
7						2587.5 VA	720 VA				8
9	A015 - WHEEL BALANCER	20	2	1200 VA	0 VA			2	20	SPARE	10
11						1200 VA	0 VA				12
13	SPARE	20	2	0 VA	0 VA			2	20	SPARE	14
15						0 VA	0 VA				16
17	A020 - BENCH GRINDER W/ STAND	20	1	1440 VA	1440 VA			1	20	A020 - BENCH GRINDER W/ STAND	18
19	A034 - DRILL PRESS	20	1			1680 VA	1080 VA	1	20	RECEPT AUTOBODY SHOP 120	20
21	RECEPT AUTOBODY SHOP 120	20	1	900 VA	864 VA			1	20	OVERHEAD DOOR	22
23	OVERHEAD DOOR	20	1			864 VA	260 VA	1	20	RECEPT WATER COOLER	24
25	SPARE	20	1	0 VA	0 VA			1	20	SPARE	26
27	SPARE	20	1			0 VA	0 VA	1	20	SPARE	28
29	SPACE		1					1		SPACE	30
31	SPACE		1					1		SPACE	32
33	SPACE		1					1		SPACE	34
35	SPACE		1					1		SPACE	36
37	SPACE		1					1		SPACE	38
39	SPACE		1					1		SPACE	40
		Тс	tal Load:	1533	9 VA	1457	9 VA				
		Tot	al Amps:	12	7.8	12	1.5	•			

	Branch Panel: LP Location: CONS Supply From: T45 - Mounting: SURF	1-CS STRUCTIC LP1-CS2 ACE	52 DN SHOI	P 129		Volts: Phases: Wires:	120/240 De 3 4	elta			A.I.C. Mair Mains	Rating: 14,000 ns Type: 125 A MCB Rating: 225	
скт	Circuit Description	Trip	Poles		A		В		C	Poles	Trip	Circuit Description	СКТ
1	CS11 - PLANER	40	3	4156.9 VA	2106.2 VA					3	30	CS01 - JOINTER	2
3						4156.9 VA	2106.2 VA						4
5								4156.9 VA	2106.2 VA				6
7	CS05 - OSCILLATING EDGE SANDER	20	3	1247.1 VA	1524.2 VA					3	20	CS06 - CABINET SAW	8
9						1247.1 VA	1524.2 VA						10
11								1247.1 VA	1524.2 VA				12
13	GE10 - BANDSAW	30	2	2040 VA	0 VA					3	20	SPARE	14
15						2040 VA	0 VA						16
17	SPARE	20	2					0 VA	0 VA				18
19				0 VA	1680 VA					1	20	CS02 - BELT DISK SANDER	20
21	SPARE	20	2			0 VA	1675 VA			1	20	CS08 - COMPOUND MITER SAW	22
23								0 VA	1675 VA	1	20	CS08 - COMPOUND MITER SAW	24
25	SPACE		1							1		SPACE	26
27	SPACE		1							1		SPACE	28
29	SPACE		1							1		SPACE	30
		Tota	al Load:	1275	4 VA	1274	19 VA	1070	9 VA				
		Tota	I Amps:	10	6.3	10	6.2	89	9.2	1			
Notes PROV	S: /IDE VOLTAGE SENSING RELAY TO CON	ITROL ON		F DUST CO	LLECTOR,	COORDINA	TE WITH M	ECHANICAI		S FOR		S	

	Location: ELECTRIC Supply From: T25 - LP1- Mounting: SURFACE	CAL SHOP ES1	128		Volts: Phases: Wires:	120/240 Sing 1 3	le		N	A.I.C. Rating: 14,000 Mains Type: 150 A MCB lains Rating: 150
скт	Circuit Description	Trip	Poles		A	E	3	Poles	Trip	Circuit Descrip
1	RECEPT ELECTRICAL SHOP 128	20	1	720 VA	180 VA			1	20	RECEPT MONITOR
3	CORD REEL - ELECTRICAL SHOP 128	20	1			260 VA	360 VA	1	20	CORD REEL - ELECTRICAL
5	CORD REEL - ELECTRICAL SHOP 128	20	1	720 VA	720 VA			1	20	CORD REEL - ELECTRICA
7	CORD REEL - ELECTRICAL SHOP 128	20	1			720 VA	720 VA	1	20	CORD REEL - ELECTRICA
9	CORD REEL - ELECTRICAL SHOP 128	20	1	720 VA	864 VA			1	20	OVERHEAD DOOR
11	OVERHEAD DOOR	20	1			864 VA	0 VA	1	20	SPARE
13	SPARE	20	1	0 VA	0 VA			1	20	SPARE
15	SPARE	20	1			0 VA	0 VA	1	20	SPARE
17	SPACE		1					1		SPACE
19	SPACE		1					1		SPACE
21	GE10 - BANDSAW	25	2	2040 VA	0 VA			2	60	LP1-ES2
23						2040 VA	0 VA			
		Тс	tal Load:	5964	4 VA	4964	4 VA			
		Tot	tal Amps:	49	9.7	41	.4	_		

	Location: CONST Supply From: T75 - LF Mounting: SURFAC	RUCTIC 1-CS CE	ON SHOP	P 129		Volts: Phases: Wires:	120/240 De 3 4	elta			A.I.C. Mair Mains	Rating: 14,000 is Type: 200 A MCB Rating: 250	
скт	Circuit Description	Trip	Poles	Δ	۱.		В		C	Poles	Trip	Circuit Description	скт
1	CS04 - WIDE BELT SANDER	100	3	9699.5 VA	1385.6 VA					3	20	RECEPT DEDICATED POWER POLE	2
3						9699.5 VA	1385.6 VA						4
5								9699.5 VA	1385.6 VA				6
7	RECEPT DEDICATED POWER POLE	20	3	1385.6 VA	0 VA					3	20	SPARE	8
9						1385.6 VA	0 VA						10
11								1385.6 VA	0 VA				12
13	CS03 - OSCILLATING SPINDLE SANDER	20	1	1680 VA	1200 VA					1	20	RECEPT DEDICATED POWER POLE	14
15	RECEPT DEDICATED POWER POLE	20	1			1200 VA	720 VA			1	20	CORD REEL - CON. SHOP 129	16
17	CORD REEL - CON. SHOP 129	20	1					720 VA	720 VA	1	20	CORD REEL - CON. SHOP 129	18
19	RECEPT CONSTRUCTION SHOP 129	20	1	900 VA	720 VA					1	20	CORD REEL - CON. SHOP 129	20
21	RECEPT CONSTRUCTION SHOP 129	20	1			360 VA	180 VA			1	20	RECEPT MONITOR	22
23	OVERHEAD DOOR	20	1					864 VA	864 VA	1	20	OVERHEAD DOOR	24
25	RECEPT WATER COOLER	20	1	180 VA	864 VA					1	20	OVERHEAD DOOR	26
27	SPARE	20	1			0 VA	0 VA			1	20	SPARE	28
29	SPARE	20	1					0 VA	0 VA	1	20	SPARE	30
31	SPARE	20	1	0 VA	0 VA					1	20	SPARE	32
33	SPARE	20	1			0 VA	0 VA			1	20	SPARE	34
35	SPARE	20	1					0 VA	0 VA	1	20	SPARE	36
37	SPACE		1							1		SPACE	38
39	SPACE		1							1		SPACE	40
41	SPACE		1							1		SPACE	42
	· · · · · · · · · · · · · · · · · · ·	Tota	Load:	1801	5 VA	1493	1 VA	1563	9 VA			1	
		Total	Amps:	150).1	12	4.4	13	0.3				

	Location: ELEC. F Supply From: DPL1-2 Mounting: SURFA	RM 126 CE				Volts: Phases: Wires:	120/208 Wy 3 4	ye			A.I.C. Mair Mains	Rating: 10,000 ns Type: 225 A MCB Rating: 225	
скт	Circuit Description	Trip	Poles		A	E	3		C	Poles	Trip	Circuit Description	
1	RECEPT. & FLUSH TOILET	20	1	640 VA	1500 VA					1	20	HAND DRYER (SINK) - T109	
3	HAND DRYER (SINK) - T108	20	1			1500 VA	510 VA			1	20	RECEPT. & FLUSH BOY'S LOCK. RM	
5	HAND DRYER (SINK) - BOY'S LOCK. RM.	20	1					1500 VA	1500 VA	1	20	HAND DRYER (SINK) - BOY'S LOCK. RM.	
7	HAND DRYER (SINK) - BOY'S LOCK. RM.	20	1	1500 VA	1080 VA					1	20	RECEPT OFFICE 133	
9	RECEPT OFFICE 132	20	1			1080 VA	510 VA			1	20	RECEPT. & FLUSH GIRL'S LOCK. RM	
11	HAND DRYER (SINK) - GIRL'S LOCK. RM.	20	1					360 VA	360 VA	1	20	HAND DRYER (SINK) - GIRL'S LOCK. RM.	
13	HAND DRYER (SINK) - GIRL'S LOCK. RM.	20	1	360 VA	720 VA					1	20	RECEPT GYMNASIUM 130	T
15	RECEPT WATER COOLER	20	1			260 VA	744 VA			1	20	BLEACHERS	T
17	BLEACHERS	20	1					744 VA	360 VA	1	20	RECEPT A/V GYMNASIUM	T
19	RECEPT A/V GYMNASIUM	20	1	360 VA	360 VA					1	20	RECEPT A/V GYMNASIUM	+
21	RECEPT A/V GYMNASIUM	20	1			360 VA	1380 VA			1	20	GYMNASIUM BACKBOARD	T
23	GYMNASIUM BACKBOARD	20	1					1380 VA	1380 VA	1	20	GYMNASIUM BACKBOARD	+
25	GYMNASIUM BACKBOARD	20	1	1380 VA	1380 VA					1	20	GYMNASIUM BACKBOARD	+
27	GYMNASIUM BACKBOARD	20	1			1380 VA	180 VA			1	20	SCOREBOARD	t
29	SCOREBOARD	20	1					180 VA	180 VA	1	20	HUDDLE CAMERA	t
31	SPARE	20	1	0 VA	0 VA					1	20	SPARE	+
33	SPARE	20	1			0 VA	0 VA			1	20	SPARE	+
35	SPARE	20	1					0 VA	0 VA	1	20	SPARE	+
37	SPACE		1							1		SPACE	+
39	SPACE		1							1		SPACE	t
41	SPACE		1							1		SPACE	+
		Tota Tota	al Load: I Amps:	9280 77) VA 7.4	7904 65	4 VA 5.9	794 66	4 VA 5.3				

	Branch Panel: N Location: EL Supply From: DF Mounting: SL				A.I.C. Rating: 10,000 Mains Type: 100 A MCB Mains Rating: 100							
скт	Circuit Description	Trip	Poles	Α		В		С		Poles	Trip	Circuit Descri
1	ISUs - AREA THREE	20	2	216.3 VA	1776 VA					1	20	CUH-B & CUH-C
3						216.3 VA	1332 VA			1	20	CUH-A & CUH-C
5	SPARE	20	2					0 VA	1776 VA	1	20	CUH-Cs
7				0 VA	1522.8 VA					1	20	CUH-A, CUH-B, UHs
9	SPARE	20	2			0 VA	951.6 VA			1	20	CUH-As & UH-A
11								0 VA	768 VA	1	20	GWH-1 & PP-1
13	ISU-HG-C101A	15	2	540.8 VA	180 VA					1	20	RECEPT MAINTENANC
15						540.8 VA	540.8 VA 180 VA			1	20	CP-A-100
17	ISU-HG-C101B	15	2					540.8 VA	0 VA	1	20	SPARE
19				540.8 VA	0 VA					1	20	SPARE
21	ISU-HG-C103	15	2			540.8 VA	0 VA			1	20	SPARE
23								540.8 VA	0 VA	1	20	SPARE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
Total Load Total Amps				477	7 VA 0	3762 VA 31.5		3626 VA 30.2				

Location: ELECTRICAL SHOP 128 Supply From: LP1-ES1 Mounting: SURFACE					Volts: Phases: Wires:	: 120/240 Sing : 1 : 3	gle -	A.I.C. Rating: 14,000 Mains Type: 60 A MCB Mains Rating: 100				
скт	Circuit Description	Trip	Poles 2	A		В		Poles	Trip	Circuit Description		
1	SPARE	20		0 VA	0 VA			2	20	SPARE		
3						0 VA	0 VA					
5	SPARE	20	2	0 VA	0 VA			2	20	SPARE		
7						0 VA	0 VA					
9	SPARE	20	2	0 VA	0 VA			2	20	SPARE		
11						0 VA	0 VA					
13	SPARE	20	1	0 VA	0 VA			1	20	SPARE		
15	SPARE	20	1			0 VA	0 VA	1	20	SPARE		
17	SPARE	20	1	0 VA	0 VA			1	20	SPARE		
19	SPARE	20	1			0 VA	0 VA	1	20	SPARE		
21	SPARE	20	1	0 VA	0 VA			1	20	SPARE		
23	SPARE	20	1			0 VA	0 VA	1	20	SPARE		
		0	VA	0	0 VA							
Total Amps:)	0						

		Branch Panel: LP1-3													
			Location: ELEC. I Supply From: DPL1-2 Mounting: SURFA	RM 126 CE	Image: 126 Volts: 120/208 Wye Phases: 3 E Wires: 4							A.I.C. Rating: 10,000 Mains Type: 100 A MCB Mains Rating: 100			
otion	СКТ	г скт	Circuit Description		Poles	A		В		c		Poles	Trip	Circuit Descript	
)9	2	1	RECEPT OFFICE, STOR, VAULT	20	1	1080 VA	1000 VA					1	20	RECEPT MICROWAVE	
'S LOCK. RM	4	3	RECEPT REFRIGERATOR	20	1			500 VA	900 VA			1	20	RECEPT OFFICE 100F	
Y'S LOCK. RM.	6	5	HAND DRYER (SINK) - TOILET 100G	20	1					1500 VA	230 VA	1	20	RECEPT. & FLUSH TOILE	
	8	7	RECEPT OFFICE 100H	20	1	900 VA	520 VA					1	20	RECEPT WATER COOLEI	
'S LOCK. RM	10	9	HAND DRYER (SINK) - MEN'S T106	20	1			1500 VA	1500 VA			1	20	HAND DRYER (SINK) - MEN	
RL'S LOCK. RM.	12	11	HAND DRYER (SINK) - MEN'S T106	20	1					1500 VA	1500 VA	1	20	HAND DRYER (SINK) - WO	
30	14	13	HAND DRYER (SINK) - WOMEN'S T107	20	1	1500 VA	1500 VA					1	20	HAND DRYER (SINK) - WO	
	16	15	RECEPT. & FLUSH TOILET & CUST.	20	1			940 VA	1100 VA			1	20	RECEPT CORR, STAIR, V	
JM	18	17	RECEPT OFFICE 129A	20	1					720 VA	920 VA	1	20	RECEPT CORR, STAIR, V	
JM	20	19	RECEPT WATER COOLER	20	1	520 VA	864 VA					1	20	OVERHEAD DOOR	
D	22	21	RECEPT MAINTENANCE STOR. 119G	20	1			180 VA	720 VA			1	20	RECEPT BOILER ROOM &	
D	24	23	OVERHEAD DOOR	20	1					864 VA	0 VA	1	20	SPARE	
D	26	25	SPARE	20	1	0 VA	0 VA					1	20	SPARE	
	28	27	SPARE	20	1			0 VA	0 VA			1	20	SPARE	
	30	29	SPARE	20	1					0 VA	0 VA	1	20	SPARE	
	32	31	SPARE	20	1	0 VA	0 VA					1	20	SPARE	
	34	33	SPARE	20	1			0 VA	0 VA			1	20	SPARE	
	36	35	SPARE	20	1					0 VA	0 VA	1	20	SPARE	
	38	37	SPACE		1							1		SPACE	
	40	39	SPACE		1							1		SPACE	
	42	41	SPACE		1							1		SPACE	
				Total Load:		7884 VA		7340 VA		7234 VA				ļ	
			Total Amps		Amps:	n ps: 65.8 61.3				60.3					
		Note	s:												

Ві	ranch Panel: I	MPH2-1	1											E	Branch Pa	anel: MP2-	1									
	Location: E Supply From: M Mounting: S	ILEC RM 211 IS-1 SURFACE				Volts Phases Wires	s: 480/277 W s: 3 s: 4	'ye			A.I.C. Main Mains	Rating: 14,000 Is Type: 150 A MCB Rating: 150			ו Supp N	Location: ELEC RM 2 Dly From: DPL2-1 Iounting: SURFACE	211			Volts Phases Wires	: 120/208 V : 3 : 4	Vye		T	A.I.C. Mair Mains	Rating: 10,000 ns Type: 100 A MCB Rating: 100
скт	Circuit Description	Trip	Poles		A		В	c	;	Poles	Trip	Circuit Description	СКТ	скт	Circuit Descri	iption Tr	rip	Poles	Α		В		C	Poles	Trip	Circuit Description
1 CU-A-1		45	3	9333.7 VA	6274.2 VA	4				3	35	CU-G-1	2	1 ISUs -	AREA TWO	2	20	2 457.6 V/	A 1395.6 V	A				1	20	CUH-As & UH-A
3						9333.7 VA	A 6274.2 VA						4	3			-			457.6 VA	792 VA			1	15	F-I
5				0.1/4	0.1/4			9333.7 VA	6274.2 VA			-	6	5 ISUs -	AREA TWO	2	20	2				407.7 VA	792 VA	1	15	F-Q & F-K
7 SPARE		20	3	0 VA	0 VA	0.) (A	0.)/4			3	20	SPARE	8	7				407.7 V/	A 180 VA	0.40.0.1/4				1	20	RECEPT MAINTENANCE
9						0 VA	0 VA	0.1/4	0.) (A				10	9 ISUs -	AREA IWO	2	20	2		840.3 VA		040.01/4	540.1/4		00	
11								U VA	0 VA				12	11	2 02014		-		A 0.)/A			840.3 VA	540 VA	1	20	
13 SPACE			1							1		SPACE	14	13 150-10	3-0201A	I	5	2 540.8 V/	A UVA	E40.9.\/A	0.\/A			1	20	SPARE
17 SPACE			1							1		SPACE	10		C201B		5			540.0 VA	UVA	540.8.\/A	0.1/0	1	20	SPARE SDADE
10 SPACE			1							1		SPACE	20	10	9-0201D		5	2 540.8 V/	Δ			340.0 VA	0 0 4	1	20	SPACE
21 SPACE			1							1		SPACE	20	21 ISU-H	3-C202A	1	5	2		540.8 VA				1		SPACE
23 SPACE			1							1		SPACE	24	23	5 62627		-			010.0 17		540 8 VA		1		SPACE
25 SPACE			1							1		SPACE	26	25 SPACE			-	1						1		SPACE
27 SPACE			1							1		SPACE	28	27 SPACE			-	1						1		SPACE
29 SPACE			1							1		SPACE	30	29 SPACE	<u> </u>		-	1						1		SPACE
		Tota	al Load:	1560	08 VA	156	508 VA	15608	3 VA			1					Total	Load: 35	522 VA	317	'2 VA	366	2 VA		1	
		Tota	I Amps:	5	6.3	5	56.3	56.	.3	1						1	Fotal	Amps:	29.8	2	6.4		31	-		
Notes:														Notes:												

	Branch Panel: Kl	P2-1										
	Location: CUL Supply From: DPL Mounting: SUF	.INARY OFF 2-1 RFACE	. 212			Volts: Phases: Wires:	120/208 Wy 3 4	ye			A.I.C. Mair Mains	Rating: 10,000 ns Type: 400 A MCB Rating: 400
скт	Circuit Description	Trip	Poles		Ą		3		C	Poles	Trip	Circuit Descrip
1	*** K437 - UTILITY WALL SYSTEM	200	3	18013.3	4563.4 VA					3	50	*** K414 - CONVECTION O
3						18013.3	4563.4 VA					
5								18013.3	4563.4 VA			
7	*** K414 - CONVECTION OVEN	50	3	4563.4 VA	3602.7 VA					3	40	*** K415 - COMBI OVEN
9						4563.4 VA	3602.7 VA					
11								4563.4 VA	3602.7 VA			
13	*** K415 - COMBI OVEN	40	3	3602.7 VA	3230.4 VA					3	35	K402.1 - INTERNAL BOOS
15						3602.7 VA	3230.4 VA					
17								3602.7 VA	3230.4 VA			
19	K402 - DISHWASHER	35	3	3230.4 VA	120 VA					3	20	K418 - MIXER
21						3230.4 VA	120 VA					
23								3230.4 VA	120 VA			
25	SPARE	20	3	0 VA	0 VA					3	20	SPARE
27						0 VA	0 VA					
29								0 VA	0 VA			
31	SPACE		1							1		SPACE
33	SPACE		1							1		SPACE
35	SPACE		1							1		SPACE
37	SPACE		1							1		SPACE
39	SPACE		1							1		SPACE
41	SPACE		1							1		SPACE
	1	Tota	Load:	4092	26 VA	4092	6 VA	4092	26 VA			1
		Total	Amps:	34	1.1	34	1.1	34	1.1	1		



	Location: ELEC Supply From: MS-1 Mounting: SURF	RM 211 ACE				Volts: Phases: Wires:	480/277 Wy 3 4	/e			A.I.C. Main Mains	Rating: 14,000 s Type: 100 A MCB Rating: 100
скт	Circuit Description	Trip	Poles	Å	A		3		C	Poles	Trip	Circuit Descrip
1	LIGHTING - BIOLOGY & CLASS 201	20	1	1183 VA	1410 VA					1	20	LIGHTING - CLASS. 205 &
3	LIGHTING - NURSING LAB 202	20	1			1150.1 VA	1143.9 VA			1	20	LIGHTING - CULINARY LA
5	LIGHTING - CORR., STOR., TOILETS	20	1					967.8 VA	1008 VA	1	20	LIGHTING - CLASS. 208 &
7	LIGHTING - FASHION LAB 210	20	1	919.2 VA	1029 VA					1	20	LIGHTING - CLASS. 215 &
9	LIGHTING - CLASS. 217 & 218	20	1			1386 VA	1197 VA			1	20	LIGHTING - CLASS. 219 &
11	LIGHTING - CORR., STOR., TOILETS	20	1					1743 VA	0 VA	1	20	SPARE
13	SPARE	20	1	0 VA	0 VA					1	20	SPARE
15	SPARE	20	1			0 VA	0 VA			1	20	SPARE
17	SPARE	20	1					0 VA	0 VA	1	20	SPARE
19	SPACE		1							1		SPACE
21	SPACE		1							1		SPACE
23	SPACE		1							1		SPACE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
		Tota	al Load:	454 <i>°</i>	I VA	487	7 VA	371	9 VA			
		Tota	I Amps:	16	.9	. 18	3.1	13	3.4	-		

*** PROVIDE SHUNT TRIP BREAKERS. PROVIDE WIRING AND COORDINATION WITH FIRE ALARM SYSTEM TO TURN BREAKERS OFF IN THE EVENT OF A FIRE ALARM SIGNAL.

	Location: CORRIE Supply From: DPL2-1 Mounting: SURFA	DOR C2 CE	02			Volts: Phases: Wires:	120/208 W 3 4	ye			A.I.C Main Mains	. Rating: 10,000 ns Type: 225A MCB Rating: 225
скт	Circuit Description	Trip	Poles		٩	I	B		C	Poles	Trip	Circuit Descri
1	RECEPT CLASSROOM 205	20	1	1260 VA	1260 VA					1	20	RECEPT CLASSROOM
3	RECEPT CLASSROOM 208	20	1			1260 VA	1260 VA			1	20	RECEPT CLASSROOM
5	RECEPT CLASSROOM 216	20	1					1440 VA	1260 VA	1	20	RECEPT SCIENCE CLA
7	RECEPT CLASSROOM 218	20	1	1260 VA	1260 VA					1	20	RECEPT CLASSROOM
9	RECEPT COMPUTER CLASSROOM 220	20	1			1260 VA	230 VA			1	20	RECEPT. & FLUSHOMET
11	HAND DRYER (SINK) - TOILET T203	20	1					1500 VA	520 VA	1	20	RECEPT WATER COOL
13	RECEPT CORRIDOR & ELEC.	20	1	900 VA	1080 VA					1	20	RECEPT CORRIDOR &
15	HAND DRYER (SINK) - TOILET T204	20	1			1500 VA	820 VA			1	20	RECEPT. & FLUSH TOI
17	HAND DRYER (SINK) - TOILET 221A	20	1					1500 VA	500 VA	1	20	RECEPT REFRIGERAT
19	RECEPT FACULTY LOUNGE 221	20	1	900 VA	520 VA					1	20	RECEPT WATER COOL
21	POKE-THROUGH - SEWING MACHINE	20	1			1200 VA	1200 VA			1	20	POKE-THROUGH - SEWI
23	POKE-THROUGH - SEWING MACHINE	20	1					1200 VA	1200 VA	1	20	POKE-THROUGH - SEWI
25	POKE-THROUGH - SEWING MACHINE	20	1	1200 VA	1200 VA					1	20	POKE-THROUGH - SEWI
27	POKE-THROUGH - SEWING MACHINE	20	1			1200 VA	1200 VA			1	20	POKE-THROUGH - SEWI
29	POKE-THROUGH - SEWING MACHINE	20	1					1200 VA	1200 VA	1	20	POKE-THROUGH - SEWI
31	POKE-THROUGH - SEWING MACHINE	20	1	1200 VA	1200 VA					1	20	POKE-THROUGH - SEWI
33	RECEPT FASHION LAB	20	1			900 VA	1440 VA			1	20	RECEPT FASHION LAE
35	RECEPT TECH WORK RM	20	1					720 VA	720 VA	1	20	CORD REEL - FASHION I
37	CORD REEL - FASHION LAB	20	1	720 VA	0 VA					1	20	SPARE
39	COPIER - FACULTY LOUNGE 221	20	2			1500 VA	0 VA			1	20	SPARE
41								1500 VA	0 VA	1	20	SPARE
43	SPARE	20	1	0 VA	0 VA					1	20	SPARE
45	SPARE	20	1			0 VA	0 VA			1	20	SPARE
47	SPARE	20	1					0 VA	0 VA	1	20	SPARE
49	SPACE		1							1		SPACE
51	SPACE		1							1		SPACE
53	SPACE		1							1		SPACE
		Tota	al Load:	1396	50 VA	1497	0 VA	1446	50 VA			

Branch Panel: LP2 Location: CORR Supply From: DPL2-	2-2																								
Location: CORR Supply From: DPL2-																									
Mounting: SURFA	DOR C20 I ACE)2			Volts: Phases: Wires:	120/208 Wy 3 4	/e			A.I.C. Mair Mains	Rating: 10,000 is Type: 225A MCB Rating: 225														
T Circuit Description	Trip	Polos				5		C	Polos	Trin	Circuit Description	СКТ													
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RECEPT CLASSROOM 208 RECEPT CLASSROOM 216	20	1			1260 VA	1260 VA	1440 VA	1260 VA	1	20 20	RECEPT CLASSROOM 209 RECEPT SCIENCE CLASSROOM 217	4													
RECEPT CLASSROOM 218	20	1	1260 VA	1260 VA					1	20	RECEPT CLASSROOM 219	8													
RECEPT COMPUTER CLASSROOM 220	20	1			1260 VA	230 VA	1500 VA	520 VA	1	20 20	RECEPT. & FLUSHOMETER - BATH. RECEPT WATER COOLER	10													
3 RECEPT CORRIDOR & ELEC.	20	1	900 VA	1080 VA					1	20	RECEPT CORRIDOR & STAIR	14													
5 HAND DRYER (SINK) - TOILET T204 7 HAND DRYER (SINK) - TOILET 221A	20	1			1500 VA	820 VA	1500 VA	500 VA	1	20	RECEPT. & FLUSH TOILET RECEPT REFRIGERATOR	16													
P RECEPT FACULTY LOUNGE 221	20	1	900 VA	520 VA					1	20	RECEPT WATER COOLER	20													
POKE-THROUGH - SEWING MACHINE POKE-THROUGH - SEWING MACHINE	20	1			1200 VA	1200 VA	1200 \/A	1200 \/A		20	POKE-THROUGH - SEWING MACHINE	22 24													
5 POKE-THROUGH - SEWING MACHINE	20	1	1200 VA	1200 VA			1200 VA	1200 VA	1	20	POKE-THROUGH - SEWING MACHINE	24													
POKE-THROUGH - SEWING MACHINE	20	1			1200 VA	1200 VA	1200 \/A	1200 \/A	1	20	POKE-THROUGH - SEWING MACHINE	28													
POKE-THROUGH - SEWING MACHINE	20	1	1200 VA	1200 VA			1200 VA	1200 VA	1	20	POKE-THROUGH - SEWING MACHINE	30													
B RECEPT FASHION LAB	20	1			900 VA	1440 VA	700 \/A	720.1/4	1	20	RECEPT FASHION LAB	34													
7 CORD REEL - FASHION LAB	20	1	720 VA	0 VA			720 VA	720 VA	1	20	SPARE	30													
O COPIER - FACULTY LOUNGE 221	20	2			1500 VA	0 VA			1	20	SPARE	40													
I 3 SPARE	20		0 VA	0 VA			1500 VA	0 VA	1	20	SPARE SPARE	42													
5 SPARE	20	1			0.1/0				1	20	SPARE	46													
	+	<u> </u>			UVA	0 VA			· ·	20		-													
7 SPARE	20	1				0 VA	0 VA	0 VA	1	20	SPARE SPACE	48													
7 SPARE 9 SPACE 1 SPACE 3 SPACE 3 SPACE	20 Tota Total	1 1 1 1 1 I Load: Amps:	 1396 11	 0 VA 3.3	 1497 12:	0 VA 0 VA 5.4	0 VA 1446 12	0 VA 60 VA 21.1	1 1 1 1	20 	SPARE SPACE SPACE SPACE	48 50 52 54													
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SPARE SPARE SPARE SPARE</td><td>48 50 52 54 34 34 30 32 38 38</td></tr> <tr><td> SPARE SPACE SPACE SPACE SPACE SPACE SPACE SPACE tes: tes: Branch Panel: KP Location: CULIN Supply From: DPL2 Mounting: SURFA K Circuit Description K215 - WASHER MACHINE K408, K417 - HAND SINKS K412 - EXHAUST HOOD K424 - SLICER K429 - EXHAUST HOOD K424 - SLICER K429 - EXHAUST HOOD K423 - EXHAUST HOOD K433 - EXHAUST HOOD K433 - EXHAUST HOOD K453 - ROLL-IN REFRIGERATOR K453 - ROLL-IN REFRIGERATOR K451 - ICE MACHINE K451 - ICE MACHINE K451 - ICE MACHINE SPARE <</td><td>20 Tota Total 2-2 ARY OFF 1 ACE Trip 20 20 20 20 20 20 20 20 20 20</td><td>1 1 1 <td> 1396 11 1396 11 1800 VA 360 VA 360 VA 1800 VA 0 VA 0 VA 5400 VA</td><td> 0 VA 6.3 </td><td>Uolts: Phases: Wires: Wires: 1128 VA 1800 VA 1128 VA 1128 VA 0 VA 5400 VA</td><td>0 VA 0 VA 5.4 120/208 Wy 3 4 120/208 Wy 3 4 1656 VA 1800 VA 1800 VA 1620 VA 1620 VA 0 VA 1620 VA</td><td>0 VA 1446 12 1446 12 1447 12 1446 12 12 1446 12 12 12 12 12 12 12 12 12 12</td><td>0 VA</td><td>1 1 <td>20 20 - - - - - - - - - - - - - - - -</td><td>SPARE SPACE SPACE SPACE SPACE SPACE SPACE Circuit Description K301 - TEACHER'S REFRIGERATED K411 - PROOFING CABINET K413 - FIRE SUPPRESSION SYSTEM K429 - EXHAUST HOOD K433 - EXHAUST HOOD K433 - EXHAUST HOOD K436 - EXHAUST HOOD K456 - MIXER RECEPT CULINARY OFF. & STOR. 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RECEPT CULINARY CLASSROOM SPARE S</td> <td>48 50 52 54 34 34 30 32 34 36 38 40 42</td>	20 20 - - - - - - - - - - - - - - - -	SPARE SPACE SPACE SPACE SPACE SPACE SPACE Circuit Description K301 - TEACHER'S REFRIGERATED K411 - PROOFING CABINET K413 - FIRE SUPPRESSION SYSTEM K429 - EXHAUST HOOD K433 - EXHAUST HOOD K433 - EXHAUST HOOD K436 - EXHAUST HOOD K456 - MIXER RECEPT CULINARY OFF. & STOR. RECEPT CULINARY OFF. & STOR. RECEPT CULINARY OFF. & STOR. RECEPT CULINARY OFF. & STOR. RECEPT CULINARY CLASSROOM SPARE S	48 50 52 54 34 34 30 32 34 36 38 40 42
20 20 - - - - - - - - - - - - - - - -	SPARE SPACE SPACE SPACE SPACE SPACE SPACE Circuit Description K301 - TEACHER'S REFRIGERATED K411 - PROOFING CABINET K413 - FIRE SUPPRESSION SYSTEM K429 - EXHAUST HOOD K433 - EXHAUST HOOD K433 - EXHAUST HOOD K436 - EXHAUST HOOD K436 - EXHAUST HOOD K456 - MIXER RECEPT CULINARY OFF. & STOR. RECEPT CULINARY OFF. & STOR. SPARE SPARE SPARE SPARE	48 50 52 54 34 34 30 32 38 38																							
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	Location: CORRIE Supply From: DPL2-1 Mounting: SURFA	DOR C20 CE	01			Volts: Phases: Wires:	120/208 Wy 3 4	ye			A.I.C. Mair Mains	Rating: 10,000 ns Type: 225A MCB Rating: 225	
скт	Circuit Description	Trip	Poles	A	N	E	3		0	Poles	Trip	Circuit Description	C
1	LAB TABLE - BIOLOGY LAB 200	20	1	720 VA	900 VA					1	20	LAB TABLE - BIOLOGY LAB 200	-
3	LAB TABLE - BIOLOGY LAB 200	20	1			720 VA	900 VA			1	20	RECEPT BIOLOGY LAB 200	
5	RECEPT BIOLOGY LAB 200	20	1					1080 VA	1440 VA	1	20	RECEPT CLASSROOM 201	
7	RECEPT NURSING LAB 202	20	1	720 VA	720 VA					1	20	RECEPT NURSING LAB 202	
9	RECEPT NURSING LAB 202 & STOR	20	1			1080 VA	1500 VA			1	20	HAND DRYER (SINK) - TOILET 202B	
11	RECEPT. & FLUSH TOILET & S. STOR.	20	1					590 VA	800 VA	1	20	RECEPT WASHER	
13	HAND DRYER (SINK) - MEN'S T201	20	1	1500 VA	1500 VA					1	20	HAND DRYER (SINK) - MEN'S T201	
15	HAND DRYER (SINK) - MEN'S T201	20	1			1500 VA	1500 VA			1	20	HAND DRYER (SINK) - MEN'S T201	
17	HAND DRYER (SINK) - WOMEN'S T202	20	1					1500 VA	1500 VA	1	20	HAND DRYER (SINK) - WOMEN'S T202	
19	HAND DRYER (SINK) - WOMEN'S T202	20	1	1500 VA	1500 VA					1	20	HAND DRYER (SINK) - WOMEN'S T202	
21	RECEPT. & FLUSH TOILET	20	1			860 VA	520 VA			1	20	RECEPT WATER COOLER	
23	RECEPT CORR, STAIR, CUST	20	1					900 VA	0 VA	1	20	SPARE	T
25	SPARE	20	1	0 VA	0 VA					1	20	SPARE	
27	SPARE	20	1			0 VA	0 VA			1	20	SPARE	
29	SPARE	20	1					0 VA	0 VA	1	20	SPARE	
31	SPACE		1							1		SPACE	
33	SPACE		1							1		SPACE	
35	SPACE		1							1		SPACE	
37	SPACE		1							1		SPACE	T
39	RECEPT DRYER	30	2			2000 VA				1		SPACE	
41								2000 VA		1		SPACE	T
		Tota	Load:	9060	VA	1058	0 VA	981) VA				
		Total	Amps:	75	.5	89).1	82	2.7	1			

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LPH2-1	LP2-1	
MP2-1	KP2-2	
	LP2-2	



	Location: EL Supply From: DF Mounting: SU	.EC. RM 227 PL2-2 JRFACE				Volts: Phases: Wires:	120/208 W 3 4	уе			A.I.C. Main Mains	Rating: 10,000 s Type: 60 A MCB Rating: 100
скт	Circuit Description	Trip	Poles		A	E	3			Poles	Trip	Circuit Desc
1	ISUs - AREA THREE	20	2	1198.1 VA	951.6 VA					1	20	CUH-As & UH-A
3						1198.1 VA	864 VA			1	20	GMS-A-222
5	ISUs - AREA TWO	20	2					274.6 VA	360 VA	1	20	CP-As
7				274.6 VA	0 VA					1	20	SPARE
9	SPARE	20	2			0 VA	0 VA			1	20	SPARE
11								0 VA	0 VA	1	20	SPARE
13	ISU-HG-C101C	15	2	540.8 VA						1		SPACE
15						540.8 VA				1		SPACE
17	ISU-HG-C204A	15	2					540.8 VA		1		SPACE
19				540.8 VA						1		SPACE
21	ISU-HG-C204B	15	2			540.8 VA				1		SPACE
23								540.8 VA		1		SPACE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
		Tota	al Load:	3506	6 VA	3144	I VA	1716	3 VA			
		Tota	Amps:	3	1	2	8	14	.3			



	Location: ELEC. Supply From: DPL2-2 Mounting: SURFA	RM 227 2 ACE				Volts: Phases: Wires:	120/208 Wy 3 4	ye			A.I.C. Mair Mains	. Rating: 10,000 ns Type: 100 A MCB Rating: 100
скт	Circuit Description	Trip	Poles		4		В		c	Poles	Trip	Circuit Descri
1	HAND DRYER (SINK) - MEN'S T205	20	1	1500 VA	1500 VA					1	20	HAND DRYER (SINK) - ME
3	HAND DRYER (SINK) - MEN'S T205	20	1			1500 VA	1500 VA			1	20	HAND DRYER (SINK) - W
5	HAND DRYER (SINK) - WOMEN'S T206	20	1					1500 VA	1500 VA	1	20	HAND DRYER (SINK) - W
7	RECEPT. & FLUSH TOILET & CUST.	20	1	940 VA	1260 VA					1	20	RECEPT 15:1 CLASSRO
9	RECEPT CLASSROOM 225	20	1			1260 VA	1080 VA			1	20	RECEPT PSYCH. OFF.
11	RECEPT GUIDANCE 233C	20	1					900 VA	1080 VA	1	20	RECEPT GUIDANCE SU
13	RECEPT GUIDANCE 233D	20	1	900 VA	900 VA					1	20	RECEPT SOCIAL WORI
15	RECEPT CLASSROOM 226	20	1			1260 VA	1260 VA			1	20	RECEPT CLASSROOM
17	RECEPT RESOURCE RM 232	20	1					1080 VA	1260 VA	1	20	RECEPT CLASSROOM
19	RECEPT RESOURCE RM 224	20	1	1080 VA	1440 VA					1	20	RECEPT ART CLASSRO
21	RECEPT CORR, STAIR, ELEC, STOR	20	1			1260 VA	540 VA			1	20	RECEPT MECH. EQ. RM
23	SPARE	20	1					0 VA	0 VA	1	20	SPARE
25	SPARE	20	1	0 VA	0 VA					1	20	SPARE
27	SPARE	20	1			0 VA	0 VA			1	20	SPARE
29	SPARE	20	1					0 VA	0 VA	1	20	SPARE
31	SPACE		1							1		SPACE
33	SPACE		1							1		SPACE
35	SPACE		1							1		SPACE
37	SPACE		1							1		SPACE
39	SPACE		1							1		SPACE
41	SPACE		1							1		SPACE
		Tota	I Load:	9520) VA	966) VA	732	0 VA			
		Total	Amps:	82	2.2	83	3.3	6	51			

	Branch Panel: I P2	2-3										
	Location: ELEC. Supply From: DPL2-2 Mounting: SURFA	RM 227				Volts: Phases: Wires:	120/208 W <u>y</u> 3 4	ye			A.I.C. Mair Mains	. Rating: 10,000 1s Type: 100 A MCB Rating: 100
скт	Circuit Description	Trip	Poles	ŀ	A	I	В		C	Poles	Trip	Circuit I
1	HAND DRYER (SINK) - MEN'S T205	20	1	1500 VA	1500 VA					1	20	HAND DRYER (SIN
2	HAND DRYER (SINK) - MEN'S T205	20	1			1500 VA	1500 VA			1	20	HAND DRYER (SIN
5								1500 \/A	1500 VA	4	20	HAND DRYFR (SIN
5	HAND DRYER (SINK) - WOMEN'S T206	20	1					1500 VA	1000 071	1	20	
5 7	HAND DRYER (SINK) - WOMEN'S T206 RECEPT. & FLUSH TOILET & CUST.	20 20	1 1	940 VA	1260 VA			1500 VA		1	20	RECEPT 15:1 CL
5 7 9	HAND DRYER (SINK) - WOMEN'S T206 RECEPT. & FLUSH TOILET & CUST. RECEPT CLASSROOM 225	20 20 20	1 1 1	940 VA	1260 VA	1260 VA	1080 VA	1500 VA		1 1 1	20 20 20	RECEPT 15:1 CL/ RECEPT PSYCH.
5 7 9 11	HAND DRYER (SINK) - WOMEN'S T206 RECEPT. & FLUSH TOILET & CUST. RECEPT CLASSROOM 225 RECEPT GUIDANCE 233C	20 20 20 20	1 1 1 1	940 VA	1260 VA	1260 VA	1080 VA	900 VA	1080 VA	1 1 1 1	20 20 20 20	RECEPT 15:1 CL/ RECEPT PSYCH. RECEPT GUIDAN
3 5 7 9 11 13	HAND DRYER (SINK) - WOMEN'S T206 RECEPT. & FLUSH TOILET & CUST. RECEPT CLASSROOM 225 RECEPT GUIDANCE 233C RECEPT GUIDANCE 233D	20 20 20 20 20 20	1 1 1 1 1 1	940 VA	1260 VA	1260 VA	1080 VA	900 VA	1080 VA	1 1 1 1 1	20 20 20 20 20	RECEPT 15:1 CL/ RECEPT PSYCH. RECEPT GUIDAN RECEPT SOCIAL
5 7 9 11 13 15	HAND DRYER (SINK) - WOMEN'S T206 RECEPT. & FLUSH TOILET & CUST. RECEPT CLASSROOM 225 RECEPT GUIDANCE 233C RECEPT GUIDANCE 233D RECEPT CLASSROOM 226	20 20 20 20 20 20 20	1 1 1 1 1 1 1	940 VA	1260 VA 900 VA	1260 VA 1260 VA 1260 VA	1080 VA	900 VA	1080 VA	1 1 1 1 1 1 1	20 20 20 20 20 20	RECEPT 15:1 CL/ RECEPT PSYCH. RECEPT GUIDAN RECEPT SOCIAL RECEPT CLASSF
3 5 7 9 11 13 15 17	HAND DRYER (SINK) - WOMEN'S T206 RECEPT. & FLUSH TOILET & CUST. RECEPT CLASSROOM 225 RECEPT GUIDANCE 233C RECEPT GUIDANCE 233D RECEPT CLASSROOM 226 RECEPT RESOURCE RM 232	20 20 20 20 20 20 20 20	1 1 1 1 1 1 1 1	940 VA	1260 VA 900 VA	1260 VA 1260 VA	1080 VA 1260 VA	900 VA	1080 VA	1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20	RECEPT 15:1 CL/ RECEPT PSYCH. RECEPT GUIDAN RECEPT SOCIAL RECEPT CLASSF RECEPT CLASSF
3 5 7 9 11 13 15 17 19	HAND DRYER (SINK) - WOMEN'S T206 RECEPT. & FLUSH TOILET & CUST. RECEPT CLASSROOM 225 RECEPT GUIDANCE 233C RECEPT GUIDANCE 233D RECEPT CLASSROOM 226 RECEPT RESOURCE RM 232 RECEPT RESOURCE RM 224	20 20 20 20 20 20 20 20 20 20	1 1 1 1 1 1 1 1 1 1	940 VA 900 VA 900 VA 1080 VA	1260 VA 900 VA 1440 VA	1260 VA 1260 VA	1080 VA 1260 VA	900 VA	1080 VA	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20	RECEPT 15:1 CL/ RECEPT PSYCH. RECEPT GUIDAN RECEPT SOCIAL RECEPT CLASSF RECEPT CLASSF RECEPT ART CL/
3 5 7 9 11 13 15 17 19 21	HAND DRYER (SINK) - WOMEN'S T206 RECEPT. & FLUSH TOILET & CUST. RECEPT CLASSROOM 225 RECEPT GUIDANCE 233C RECEPT GUIDANCE 233D RECEPT CLASSROOM 226 RECEPT RESOURCE RM 232 RECEPT RESOURCE RM 224 RECEPT CORR, STAIR, ELEC, STOR	20 20 20 20 20 20 20 20 20 20 20	1 1 1 1 1 1 1 1 1 1 1	940 VA 900 VA 1080 VA	1260 VA 900 VA 1440 VA	1260 VA 1260 VA 1260 VA 1260 VA	1080 VA 1260 VA 540 VA	900 VA	1080 VA	1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20	RECEPT 15:1 CL/ RECEPT PSYCH. RECEPT GUIDAN RECEPT SOCIAL RECEPT CLASSF RECEPT CLASSF RECEPT ART CL/ RECEPT MECH. F
3 5 7 9 11 13 15 17 19 21 23	HAND DRYER (SINK) - WOMEN'S T206 RECEPT. & FLUSH TOILET & CUST. RECEPT CLASSROOM 225 RECEPT GUIDANCE 233C RECEPT GUIDANCE 233D RECEPT CLASSROOM 226 RECEPT RESOURCE RM 232 RECEPT RESOURCE RM 224 RECEPT CORR, STAIR, ELEC, STOR SPARE	20 20 20 20 20 20 20 20 20 20 20 20	1 1 1 1 1 1 1 1 1 1 1 1	940 VA 900 VA 1080 VA	1260 VA 900 VA 1440 VA	1260 VA 1260 VA 1260 VA 1260 VA	1080 VA 1260 VA 540 VA	900 VA 900 VA 1080 VA	1080 VA 1260 VA	1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20	RECEPT 15:1 CL/ RECEPT PSYCH. RECEPT GUIDAN RECEPT SOCIAL RECEPT CLASSF RECEPT CLASSF RECEPT ART CL/ RECEPT MECH. I SPARE
3 5 7 9 11 13 15 17 19 21 23 25	HAND DRYER (SINK) - WOMEN'S T206 RECEPT. & FLUSH TOILET & CUST. RECEPT CLASSROOM 225 RECEPT GUIDANCE 233C RECEPT GUIDANCE 233D RECEPT CLASSROOM 226 RECEPT RESOURCE RM 232 RECEPT RESOURCE RM 224 RECEPT CORR, STAIR, ELEC, STOR SPARE SPARE	20 20 20 20 20 20 20 20 20 20 20 20 20	1 1 1 1 1 1 1 1 1 1 1 1 1	940 VA 900 VA 900 VA 1080 VA	1260 VA 900 VA 1440 VA	1260 VA 1260 VA 1260 VA 1260 VA	1080 VA 1260 VA 540 VA	900 VA 900 VA 1080 VA	1080 VA 1260 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20	RECEPT 15:1 CL/ RECEPT PSYCH. RECEPT GUIDAN RECEPT SOCIAL RECEPT CLASSF RECEPT CLASSF RECEPT ART CL/ RECEPT MECH. I SPARE SPARE



	Branch Panel: LP	H2-2										
	Location: ELEC.	RM 227				Volts:	480/277 Wy	/e			A.I.C.	Rating: 14,000
	Supply From: DPH1-	-2				Phases:	3				Main	s Type: 60 A MCB
	Mounting: SURF	ACE				Wires:	4				Mains	Rating: 100
скт	Circuit Description	Trip	Poles	A	4	E	3		C	Poles	Trip	Circuit Descrip
1	LIGHTING - FACULTY LOUNGE 221	20	1	693.6 VA	1323 VA					1	20	LIGHTING - CLASS. 223 &
3	LIGHTING - CLASS. 226 & 229	20	1			1163.8 VA	1171.2 VA			1	20	LIGHTING - CLASS. 230 &
5	LIGHTING - GUIDANCE OFFICES	ING - GUIDANCE OFFICES 20						1200 VA	675 VA	1	20	LIGHTING - REESOURCE
7	LIGHTING - CORR., STOR. & TOILETS	20	1	1689.8 VA	0 VA					1	20	SPARE
9	SPARE	20	1			0 VA	0 VA			1	20	SPARE
11	SPARE	20	1					0 VA	0 VA	1	20	SPARE
13	SPACE		1							1		SPACE
15	SPACE		1							1		SPACE
17	SPACE		1							1		SPACE
19	SPACE		1							1		SPACE
21	SPACE		1							1		SPACE
23	SPACE		1							1		SPACE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
		Tota	al Load:	3706	6 VA	2335	5 VA	187	5 VA			
		Tota	I Amps:	13	.6	8.	.7	6	.8	_		







Branch Panel:	MP3-1						Branch	Panel: CP3-1	1								Branch Panel: L	P3-1						
Location: Supply From: Mounting:	ELEC. RM 309 DPL2-2 SURFACE	Volts: 120/208 Phases: 3 Wires: 4	Wye	A.I. M Mair	.C. Rating: 10,000 ains Type: 100 A MCB ns Rating: 100		s	Location: ELEC. RM 3 Supply From: DPL2-2 Mounting: SURFACE	309		Volts: 120/ Phases: 3 Wires: 4	/208 Wye		A.I. M Mair	C. Rating: 10,000 ains Type: 100 A MCB ns Rating: 100		Location: EL Supply From: DF Mounting: SU	EC. RM 309 L2-2 RFACE			Volts: 120/208 Wy Phases: 3 Wires: 4	e	A.I. Ma Main	C. Rating: 10,000 ins Type: 225 A MCB s Rating: 225
CKT Circuit Description	Trip Poles A	В	С	Poles Tri	p Circuit Description	скт	CKT Circuit De	escription Tr	rip Poles	Α	В	с	Po	Poles Tri	p Circuit Description	скт	CKT Circuit Description	Trip Po	les	Α	В	с	Poles Trip	Circuit Descrip
1 SPARE	20 2 0 VA 1200	VA		1 20) F-J	2	1 RECEPT VIDEO PR	ROD. LAB 314 2	20 1	1080 VA 1080 VA				1 20	RECEPT VIDEO PROD. LAB 314	2	1 HAND DRYER (SINK) - TOILET T301	20	1 1500 V/	A 1500 VA			1 20	HAND DRYER (SINK) - TO
3		0 VA 888 VA	A	1 20) CUH-As	4	3 RECEPT VIDEO PR	ROD. LAB 314 2	20 1		1080 VA 108	80 VA		1 20	RECEPT VIDEO PROD. LAB 314	4	3 RECEPT. & FLUSH TOILET	20	1		460 VA 720 VA		1 20	RECEPT FACULTY LOU
5 SPARE	20 2		0 VA 540 VA	1 20	RECEPT MAINTENANCE	6	5 RECEPT VIDEO PR	ROD. LAB 314 2	20 1			1080 VA 10	80 VA	1 20	RECEPT COMPUTER CLASS. 306	6	5 RECEPT REFRIGERATOR	20	1			500 VA 520 VA	1 20	RECEPT WATER COOLE
7	0 VA 720	VA		1 20	RECEPT MAINTENANCE	8	7 RECEPT COMPUTE	ER CLASS. 306 2	20 1	1080 VA 1080 VA				1 20	RECEPT COMPUTER CLASS. 306	8	7 HAND DRYER (SINK) - MEN'S T302	20	1 1500 V/	A 1500 VA			1 20	HAND DRYER (SINK) - ME
9 ISUs - AREA THREE	20 2	807.3 VA 720 VA	A	1 20	RECEPT MAINTENANCE	10	9 RECEPT COMPUTE	ER CLASS. 306 2	20 1		720 VA 108	80 VA		1 20	RECEPT COMPUTER CLASS. 308	10	9 HAND DRYER (SINK) - MEN'S T302	20	1		1500 VA 1500 VA		1 20	HAND DRYER (SINK) - WC
11			807.3 VA 900 VA	1 20	RECEPT MAINTENANCE	12	11 RECEPT COMPUTE	ER CLASS. 308 2	20 1			1080 VA 72	20 VA	1 20	RECEPT COMPUTER CLASS. 308	12	11 HAND DRYER (SINK) - WOMEN'S T30	3 20 ⁻	1			1500 VA 1500 VA	A 1 20	HAND DRYER (SINK) - WC
13 SPARE	15 1 0 VA 456	VA		1 1:	5 F-L	14	13 RECEPT COMPUTE	ER CLASS. 308 2	20 1	1080 VA 1080 VA				1 20	RECEPT COMPUTER CLASS. 311	14	13 RECEPT. & FLUSH TOILET & CUST	20	1 940 VA	A 1080 VA			1 20	RECEPT VIDEO PROD. I
15 SPARE	15 1	0 VA 912 VA	A	1 15	5 F-O & F-P	16	15 RECEPT COMPUTE	ER CLASS. 311 2	20 1		1080 VA 72	20 VA		1 20	RECEPT COMPUTER CLASS. 311	16	15 RECEPT COMPUTER CLASS. 306	20	1		1080 VA 720 VA		1 20	RECEPT COMPUTER CL
17 SPARE	15 1		0 VA 792 VA	1 15	5 F-M & F-N	18	17 RECEPT COMPUTE	ER CLASS. 311 2	20 1			1080 VA 72	20 VA	1 20	RECEPT PHOTO LAB 305	18	17 RECEPT COMPUTER CLASS. 311	20	1			900 VA 900 VA	1 20	RECEPT PHOTO LAB 30
19 ISU-HC-314B	15 2 706.1 VA 936.7	7 VA		2 15	5 CU-J-1	20	19 RECEPT PHOTO L	AB 305 2	20 1	720 VA 720 VA				1 20	RECEPT PHOTO LAB 305	20	19 RECEPT REFRIGERATOR	20	1 500 VA	A 500 VA			1 20	RECEPT REFRIGERATC
21		706.1 VA 936.7 V	/A		·	22	21 RECEPT PHOTO L	AB 305 2	20 1		720 VA 72	20 VA		1 20	RECEPT PHOTO LAB 305	22	21 RECEPT CORR, STAIR, ELEC, STO	R 20 ⁻	1		1620 VA 1080 VA		1 20	RECEPT CORR, STAIR,
23 ISU-HH-C301A	15 2		715.5 VA 176.8 VA	2 15	5 ERV-A	24	23 RECEPT PHOTO L	AB 305 2	20 1			720 VA (O VA	1 20	SPARE	24	23 RECEPT DARK ROOM	20	1			1080 VA 1500 VA	A 2 20	RECEPT COPIER
25	715.5 VA 176.8	3 VA			·	26	25 SPARE	2	20 1	0 VA 0 VA				1 20	SPARE	26	25 SPARE	20	1 0 VA	1500 VA				
27 ISU-HH-C301B	15 2	715.5 VA 353.6 V	/A	2 15	5 ERV-B	28	27 SPARE	2	20 1		0 VA 0) VA		1 20	SPARE	28	27 SPARE	20	1		0 VA 0 VA		1 20	SPARE
29			715.5 VA 353.6 VA		·	30	29 SPARE	2	20 1			0 VA (O VA	1 20	SPARE	30	29 SPARE	20	1			0 VA 0 VA	1 20	SPARE
	Total Load: 4911 VA	6039 VA	5001 VA						Total Load:	7920 VA	7200 VA	6480 VA	۹				31 SPARE	20	1 0 VA	0 VA			1 20	SPARE
	Total Amps: 40.9	50.4	41.8					1	Total Amps:	66.9	60.9	54					33 SPACE	'	1				1	SPACE
																	35 SPACE	'	1				1	SPACE
Notes:							Notes:										37 SPACE	'	1				1	SPACE
																	39 SPACE	'	1				1	SPACE
																	41 SPACE	/	1				1	SPACE
																		Total Lo	bad: 10	520 VA	8680 VA	8400 VA		
																		Total Am	nps:	88	72.7	70		
																	Les .							

	Branch Panel: LPF Location: ELEC. Supply From: DPH1-2 Mounting: SURFA	13-1 RM 309 CE			Volts: Phases: Wires:	480/277 W 3 4	ye			A.I.C. Main Mains	Rating: 14,000 s Type: 100 A MCB Rating: 100			Branch Panel: Location: F Supply From: 1 Mounting: 5	MPH3-2 ELEC RM 300 DPH1-1 SURFACE	2		Volts: 480/277 \ Phases: 3 Wires: 4	Vye		A.I N Mai	.C. Rating ains Type ns Rating	J: 14,000 ≱: 400 A MCB J: 400
скт	Circuit Description	Trip Pole	s	A		В		с	Poles	Trip	Circuit Description	скт	СКТ	Circuit Description	Trip	Poles	Α	В	c	Pole	es Tri	p	Circuit Descri
1	LIGHTING - CLASS. 311 & DARK ROOM	20 1	1284 VA	1738.8 VA	\				1	20	LIGHTING - CORR., STOR., TOILETS	2	31 ERU-/	A-1.1	90	3	17569.9 13579.3			3	80	ERU-0	J-2.1
3	LIGHTING - VIDEO PROD. & FACULTY	20 1			1465.6 VA	0 VA			1	20	SPARE	4	33					17569.9 13579.3.					
5	LIGHTING - COMPUTER CLASS. 305 &	20 1					2216 VA	0 VA	1	20	SPARE	6	35						17569.9 13579.	.3			
7	SPARE	20 1	0 VA	0 VA					1	20	SPARE	8	37 ERU-I	0-2.2	70	3	11694.8 10375.7			3	50	CU-E-	<u>.1</u>
9	SPARE	20 1			0 VA	0 VA			1	20	SPARE	10	39					11694.8 10375.7.					
11	SPARE	20 1					0 VA	0 VA	1	20	SPARE	12	41						11694.8 10375.	.7			
13	SPACE	1							1		SPACE	14	43 ERU-I	3-1.2	35	3	7094.5 VA 3924.1 VA			3	30) MAU-	E-206.2
15	SPACE	1							1		SPACE	16	45					7094.5 VA 3924.1 V	Α				
17	SPACE	1							1		SPACE	18	47						7094.5 VA 3924.1	VA			
19	SPACE	1							1		SPACE	20	49 CU-K-	2	25	3	4567.1 VA 3680.3 VA			3	20	CU-F-	10
21	SPACE	1							1		SPACE	22	51					4567.1 VA 3680.3 V	Α				
23	SPACE	1							1		SPACE	24	53						4567.1 VA 3680.3	VA			
25	SPACE	1							1		SPACE	26	55 CU-F-	2	20	3	3680.3 VA 1596.3 VA			3	20) MAU-	A-119.2
27	SPACE	1							1		SPACE	28	57					3680.3 VA 1596.3 V	Α				
29	SPACE	1							1		SPACE	30	59						3680.3 VA 1596.3	VA			
		Total Loa	l: 30	23 VA	146	6 VA	221	6 VA					61 F-A-2	06.1	15	3	1995.3 VA 2272.5 VA			3	15	5 F-E, F	-F, F-G
		Total Amp	8:	11.3	5	5.3	8	8.4					63					1995.3 VA 2272.5 V	Α				
													65						1995.3 VA 2272.5	VA			
Notes	:												67 F-H-1	17	15	3	1330.2 VA 0 VA			3	15	5 SPAR	. <u>E</u>
													69					1330.2 VA 0 VA					
													71						1330.2 VA 0 VA	۹			
															Tot	al Load:	83360 VA	83360 VA	83360 VA				
															Tota	I Amps:	300.9	300.9	300.9				

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Branch Pai	el: MPH3-3													Branch Panel:	MPH3-3									
					Volts: Phases: Wires:	480/277 W 3 4	ye			A.I.C.	Rating: 14,000			Location: Supply From: Mounting:	ELEC. RM 309 DPH1-2 SURFACE			Volts: 48 Phases: 3 Wires: 4	0/277 Wy	e			A.I.C. Maiı Mains	. Rating: 14,000 ns Type: 600 A MCB Rating: 600
CKT Circuit Descript	on Trip Po	les	A	A		в		с	Poles	Trip	Circuit Description	скт	скт	Circuit Description	Trip Pole	5	A	В		C	;	Poles	Trip	Circuit Descrip
43 CU-F-4	20 3	3 3	8680.3 VA	3680.3 VA					3	20	CU-F-6	44	1	RTU-E-130.1	100 3	20064.1	I 20064.1					3	100	RTU-E-130.2
45		-			3680.3 VA	3680.3 VA						46	3					20064.1 20	0064.1					
47		-					3680.3 VA	3680.3 VA				48	5							20064.1	20064.1			
49 CU-F-9	20 3	3 3	3680.3 VA	1596.3 VA					3	15	MAU-C-129	50	7	ERU-E-2.3	70 3	11584	/A 10891.1					3	60	ERU-F-3.3
51		-			3680.3 VA	1596.3 VA						52	9					11584 VA 10	0891.1					
53		-					3680.3 VA	1596.3 VA				54	11							11584 VA	10891.1			
55 SPARE	20 3	3	0 VA	0 VA					3	20	SPARE	56	13	CU-C-1	60 3	11173.7	7 9333.7 VA					3	45	CU-D-1
57		-			0 VA	0 VA						58	15					11173.7 93	333.7 VA					
59		-					0 VA	0 VA				60	17							11173.7	9333.7 VA			
61 SPACE	/	1							1		SPACE	62	19	RTU-B-129	35 3	7731.9	VA 9333.7 VA	A				3	35	CU-H-1
63 SPACE	^	1					-		1		SPACE	64	21					7731.9 VA 93	333.7 VA					
65 SPACE	'	1							1		SPACE	66	23							7731.9 VA	9333.7 VA			
67 SPACE	'	1							1		SPACE	68	25	RTU-A-125	25 3	5598 V	A 5598 VA					3	25	RTU-A-128
69 SPACE	^	1							1		SPACE	70	27					5598 VA 5	598 VA					
71 SPACE	^	1							1		SPACE	72	29							5598 VA	5598 VA			
73 SPACE	^	1							1		SPACE	74	31	SPACE	1			-				1		SPACE
75 SPACE	7	1							1		SPACE	76	33	SPACE	1							1		SPACE
77 SPACE	7	1							1		SPACE	/8	35	SPACE	1							1		SPACE
79 SPACE									1		SPACE	80	37	SPACE	1									SPACE
81 SPACE	`	1							1		SPACE	82	39	SPACE	1							1		SPACE
83 SPACE	/	1							1		SPACE	84	41	SPACE	1							1		SPACE
	Total Lo	ad:	1263	/ VA	1263	37 VA	126	37 VA							Total Load	I: 12	4009 VA	124009	VA	12400	19 VA			
	I otal Am	ips:	45	.0	48	5.6	4	5.6							I otal Amps	5:	447.7	447.7		44				



	Dranch Panel: IV Location: EL Supply From: DP Mounting: SU	EC RM 300 PH1-1 IRFACE				Volts: Phases: Wires:	480/277 W 3 4	ye			A.I.C. Main Mains	Rating: 14,000 ns Type: 400 A MCB Rating: 400
скт	Circuit Description	Trip	Poles	ŀ	Ą	E	3		C	Poles	Trip	Circuit Des
1	ERU-G-117	100	3	19787 VA	14410.7					3	80	RTU-D-120
3						19787 VA	14410.7					
5								19787 VA	14410.7			
7	RTU-F-206	70	3	11750.2	10375.7					3	50	CU-B-1
9						11750.2	10375.7	44750.0	40075 7			
11				7704 0 \ (A	4507 41/4			11750.2	10375.7			
13	RTU-C-119	35	3	7731.9 VA	4567.1 VA	7704 0 \/A	4507 4 1/4			3	25	СО-К-1
15	-					7731.9 VA	4567.1 VA	7724 0 \/A	4567 4 \/A			
10	 PTU A 124			5509 \/A	2690 2 \/A			7731.9 VA	4307.1 VA			
21	RT0-A-124	25	3	5596 VA	3000.3 VA	5508 \/A	3680 3 \/A				20	
23						0000 VA	3000.3 VA	5598 V/A	3680 3 \/A			
25	MAU-A-119 1	20	3	1596 3 VA	1374 6 VA			0000 111	0000.0 1/1	3	20	MAU-D-206 1
27				1000.0 171		1596.3 VA	1374.6 VA					
29	-							1596.3 VA	1374.6 VA			
31	F-B, F-C, & F-D	15	3	2272.5 VA	0 VA					3	15	SPARE
33	-					2272.5 VA	0 VA					
35								2272.5 VA	0 VA			
37	SPARE	15	3	0 VA	0 VA					3	15	SPARE
39						0 VA	0 VA					
41								0 VA	0 VA			
		Tota	Load:	8314	4 VA	8314	4 VA	8314	4 VA			
		Total	Amps:	300	0.2	30	0.2	30	0.2			





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MPH3-2	MPH3-1	
CP3-1	LP3-1	
MPH3-3 (S2)	MPH3-3 (S1)	
	r	1



Branch Panel:	SB3-1			Branch Panel:	SBH3-1						Branch Panel: SB	2-1						
Location: Supply From: Mounting:	ELEC. RM 309 T15 - SB3-1 SURFACE	Volts: 120/208 Wye Phases: 3 Wires: 4	A.I.C. Rating: 10,000 Mains Type: 60 A MCB Mains Rating: 100	Location: E Supply From: S Mounting: S	ELEC. RM 309 SBH1-1 SURFACE		Volts: 480/277 Wye Phases: 3 Wires: 4		A.I.C. Rating: 14,000 Mains Type: 100 A MCB Mains Rating: 100		Location: ELEC Supply From: T45 - Mounting: SURF	RM 211 SB2-1 ACE		Volts: 120, Phases: 3 Wires: 4	208 Wye	A.I <i>.</i> M Mai	C. Rating: 10,000 ains Type: 175A M ns Rating: 225	MCB
	Trin Dalas			CKT Circuit Description	Trin Bolo					CKT		Trin Dala						
			C Poles Trip Circuit Description 1 20 PECEPT IDE 310			5819 7 VA			3 25 T15 - SB3-1					B				cuit Desc
	40 2 4000 VA 720 VA					3013.7 VA	5819 7 VA 5200 VA			4		00 5	3007.7 VA 0 VA	5007.7.\/A		5 20		
5 SPARE	30 2		0 VA 0 VA 1 20 SPARE	6 5			5819.7 VA	0 VA		6	5				5007.7 VA 0 V	A		
7	0 VA 0 VA		1 20 SPARE	8 7 CU-F-3	20 3	3680.3 VA 3	3680.3 VA	-	3 20 CU-F-5	8	7 UPS - IDF	60 2	5000 VA 1800 VA			1 2'	J K200 - WALK-	-IN COOLE
9 SPARE	30 2	0 VA 0 VA	1 20 SPARE	10 9			3680.3 VA 3680.3 VA			10	9			5000 VA 18		1 2'	J K200 - WALK-	-IN COOLE
11			0 VA 0 VA 1 20 SPARE	12 11			3680.3 VA 36	680.3 VA		12	11 K201 - WALK-IN C. EVAPORATOR COIL	20 2			457.6 VA 1800	VA 1 2'	J K200.1 - AIR C	CURTAIN
13 SPACE	1		1 SPACE	14 13 CU-F-7	20 3	3680.3 VA 3	3680.3 VA		3 20 CU-F-8	14	13		457.6 VA 1800 VA	\		1 21	J K200.1 - AIR C	CURTAIN
15 SPACE	1		1 SPACE	16 15			3680.3 VA 3680.3 VA			16	15 K203 - WALK-IN F. EVAPRATOR COIL	20 2		1424.8 VA 14	28 VA	1 20	J K203.1 - FREE	
17 SPACE	1		1 SPACE	18 17			3680.3 VA 36	680.3 VA		18	17				1424.8 VA 900	VA 1 20	J RECEPT MD	JF 204A
19 SPACE	1		1 SPACE	20 19 SPARE	20 3	0 VA	0 VA		3 20 SPARE	20	19 SECURITY PANEL	20 1	0 VA 0 VA			1 20	J SPARE	
21 SPACE	1		1 SPACE	22 21			0 VA 0 VA			22	21 SPARE	20 1		0 VA 0	VA	1 20	J SPARE	
23 SPACE	1		1 SPACE	24 23			0 VA	0 VA		24	23 SPARE	20 1			0 VA 0 V	A 1 20	J SPARE	
25 SPACE	1		1 SPACE	26 25 SPACE	1				1 SPACE	26	25 SPACE	1				1	SPACE	
27 SPACE	1		1 SPACE	28 27 SPACE	1				1 SPACE	28	27 SPACE	1			-	1	SPACE	
29 SPACE	1		1 SPACE	30 29 SPACE	1				1 SPACE	30	29 SPACE	1				1	SPACE	
	Total Load: 4720 VA	5200 VA	0 VA	31 SPACE	1				1 SPACE	32		Total Load	l: 14065 VA	14661 VA	9590 VA			
	Total Amps:45.4	49.4	0	33 SPACE	1				1 SPACE	34		Total Amps	: 122.9	127.9	79.9			
				35 SPACE	1				1 SPACE	36								
Notes:				37 SPACE	1				1 SPACE	38	Notes:							
				39 SPACE	1				1 SPACE	40								
				41 SPACE	1				1 SPACE	42								
					Total Load	: 25261	VA 25741 VA 20541 V	VA										
					Total Amps	: 93.8	8 95.6 74.2	2										
				Notes:														

	Dialicii Pallei. S Location: EL Supply From: T1: Mounting: SU	D I - I EC. RM 126 5 - SB1-1 IRFACE				Volts: Phases: Wires:	120/208 W 3 4	уе			A.I.C. Main Mains	Rating: 10,000 s Type: 60 A MCB Rating: 100
скт	Circuit Description	Trip	Poles	ŀ	A	E	3		C	Poles	Trip	Circuit Descri
1	UPS - IDF	40	2	3000 VA	720 VA					1	20	RECEPT IDF 127
3						3000 VA	720 VA			1	20	RECEPT IDF 228
5	UPS - IDF	40	2					3000 VA	500 VA	1	20	RECEPT PUBLIC ADDF
7				3000 VA	900 VA					1	20	RECEPT SECURITY 10
9	SPARE	30	2			0 VA	600 VA			1	20	SPARK DETECTION
11								0 VA	1200 VA	1	20	BOOSTER PUMP
13	SPACE		1							1		SPACE
15	SPACE		1							1		SPACE
17	SPACE		1							1		SPACE
19	SPACE		1							1		SPACE
21	SPACE		1							1		SPACE
23	SPACE		1							1		SPACE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
	•	Tota	Load:	7620) VA	4320	O VA	470	0 VA			



	Location: El Supply From: SE Mounting: SU	LEC. RM 126 BH1-1 URFACE				Volts: Phases: Wires:	480/277 \ 3 4	Wye			A.I.C. Main Mains	Rating: 14 s Type: 60 Rating: 10	4,000 0 A MCB 00
скт	Circuit Description	Trip	Poles	Д	۱.	E	3		0	Poles	Trip		Circuit Descript
1	T15 - SB1-1	40	3	7620 VA						1		SPACE	
3						4320 VA				1		SPACE	
5								4700 VA		1		SPACE	
7	SPACE		1							1		SPACE	
9	SPACE		1							1		SPACE	
11	SPACE		1							1		SPACE	
13	SPACE		1							1		SPACE	
15	SPACE		1							1		SPACE	
17	SPACE		1							1		SPACE	
19	SPACE		1							1		SPACE	
21	SPACE		1							1		SPACE	
23	SPACE		1							1		SPACE	
25	SPACE		1							1		SPACE	
27	SPACE		1							1		SPACE	
29	SPACE		1							1		SPACE	
		Tota	I Load:	7620	VA	4320) VA	4700) VA				
		Total	Amps:	27	.7	15	5.6	17	'.2				



	Location: EL Supply From: MS Mounting: SU	EC RM 112 S-1 IRFACE	1			Volts: Phases: Wires:	480/277 W 3 4	ye			A.I.C. Main Mains	Rating: 14,000 Is Type: 225 A MCB Rating: 225	
скт	Circuit Description	Trip	Poles		Ą		3		с	Poles	Trip	Circuit Description	скт
1	SBH3-1	100	3	25260.7	14065.3					3	70	T45 - SB2-1	2
3						25740.7	14660.5						4
5								20540.7	9590.1 VA				6
7	SBH1-2	60	3	7620 VA	0 VA	40001/4	0.1/4			3	60	SPARE	8
9						4320 VA	0 VA						10
11								4700 VA	0 VA				12
13	SPACE		1							1		SPACE	14
15	SPACE		1							1		SPACE	16
17	SPACE		1							1		SPACE	18
19	SPACE		1							1		SPACE	20
21	SPACE		1							1		SPACE	22
23	SPACE		1							1		SPACE	24
25	SPACE		1							1		SPACE	26
27	SPACE		1							1		SPACE	28
29	SPACE		1							1		SPACE	30
		Tota	al Load:	4694	6 VA	4472	21 VA	3483	31 VA				
		Tota	I Amps:	1	75	10	67	12	25.7				

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скт
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	Branch Panel: LS Location: ELEC Supply From: LSH1- Mounting: SURF	H1-2 . RM 126 -1 ACE				Volts: Phases: Wires:	480/277 Wy 3 4	/e			A.I.C. Main Mains	Rating: 14,000 s Type: 60 A MCB Rating: 100
скт	Circuit Description	Trip	Poles	4	A		В		C	Poles	Trip	Circuit Description
1	T15 - LS1-2	25	3	200 VA						1		SPACE
3						100 VA				1		SPACE
5								100 VA		1		SPACE
7	EM LIGHTING - 1ST FLOOR / AREA 3	20	1	2447.9 VA	792.5 VA					1	20	EM LIGHTING - AREA THREE (SHOPS
9	EM LIGHTING - AREA THREE (GYM)	20	1			2062.9 VA	1503.5 VA			1	20	EM LIGHTING - 2ND FLOOR / AREA 3
11	EM LIGHTING - 2ND FLOOR / AREA 3	20	1					1662.2 VA	1968.9 VA	1	20	EM LIGHTING - 3RD FLOOR / AREA 3
13	EM LIGHTING - SITE LIGHTING	20	1	391 VA	52 VA					1	20	EM LIGHTING - SITE LIGHTING
15	SPARE	20	1			0 VA	0 VA			1	20	SPARE
17	SPARE	20	1					0 VA	0 VA	1	20	SPARE
19	SPARE	20	1	0 VA	0 VA					1	20	SPARE
21	SPARE	20	1			0 VA	0 VA			1	20	SPARE
23	SPARE	20	1					0 VA	0 VA	1	20	SPARE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
		Tota	al Load:	3883	3 VA	366	6 VA	373	1 VA			
		Tota	I Amps:	14	.1	13	3.2	13	3.5			





	Branch Panel: L Location: EL Supply From: T1: Mounting: SU	S1-2 EC. RM 126 5 - LS1-2 JRFACE				Volts: Phases: Wires:	120/208 W 3 4	/ye			A.I.C. Main Mains	Rating: 10,000 s Type: 60 A MCB Rating: 100
СКТ	Circuit Description	Trip	Poles		4	E	3		C	Poles	Trip	Circuit Descr
1	1ST FLR / AREA THREE - SDs	20	1	100 VA	100 VA					1	20	GAS SHUTDOWN RELAY
3	2ND FLR / AREA THREE - SDs	20	1			100 VA	0 VA			1	20	SPARE
5	3RD FLR / AREA THREE - SDs	20	1					100 VA	0 VA	1	20	SPARE
7	SPARE	20	1	0 VA	0 VA					1	20	SPARE
9	SPARE	20	1			0 VA	0 VA			1	20	SPARE
11	SPARE	20	1					0 VA	0 VA	1	20	SPARE
13	SPACE		1							1		SPACE
15	SPACE		1							1		SPACE
17	SPACE		1							1		SPACE
19	SPACE		1							1		SPACE
21	SPACE		1							1		SPACE
23	SPACE		1							1		SPACE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
		Tota	al Load:	200	VA	100	VA	100) VA			
		Tota	I Amps:	1	.7	0	.8	0	.8			
Note	s:											

	Location: ELEC F Supply From: MS-1 Mounting: SURFA	CE				Volts: Phases: Wires:	480/277 W <u>y</u> 3 4	/e			A.I.C. Main Mains	Rating: 14,000 s Type: 150 A MCB Rating: 150
скт	Circuit Description	Trip	Poles	ŀ	A	E	3	(C	Poles	Trip	Circuit Descrip
1	LSH1-2	60	3	3883.4 VA	0 VA					3	60	SPARE
3						3666.4 VA	0 VA					
5								3731.1 VA	0 VA			
7	LS1-1 (T15)	40	3	6770 VA						1		SPACE
9						8910 VA				1		SPACE
11								8640 VA		1		SPACE
13	EM LIGHTING - 1ST FLOOR / AREA ONE	20	1	697.5 VA	1737.7 VA					1	20	EM LIGHTING - 1ST FLOO
15	EM LIGHTING - 1ST FLOOR / AREA TWO	20	1			1317.3 VA	1034.1 VA			1	20	EM LIGHTING - 2ND FLOC
17	EM LIGHTING -2ND FLOOR / AREA TWO	20	1					834.1 VA	1289.2 VA	1	20	EM LIGHTING -2ND FLOO
19	EM LIGHTING - SITE LIGHTING	20	1	251 VA	0 VA					1	20	SPARE
21	SPARE	20	1			0 VA	0 VA			1	20	SPARE
23	SPARE	20	1					0 VA	0 VA	1	20	SPARE
25	SPACE		1							1		SPACE
27	SPACE		1							1		SPACE
29	SPACE		1							1		SPACE
		Tota	al Load:	1334	0 VA	1492	8 VA	1449	4 VA	1		
		Tota	Amps:	48	.2	. 54	.5	5	3			









	FIRE ALARM SYSTEM NOTES
1.	ALL WIRING, POWER, CONDUCTORS, CONDUITS ETC. SHALL MEET THE 2014 NATIONAL ELECTRICAL CODE AND 2013 NFF
2.	ALL FIRE ALARM CIRCUITS SHALL BE SIZED TO A MAXIMUM OF 80% OF CAPACITY.
5.	ALL FIRE ALARM CIRCUITS SHALL BE WIRED NFPA STYLE 4/Y/B (CLASS B) WITH THE EXCEPTION OF THE NETWORK CI NOT STYLE 7 AND WILL NOT BE APPROVED. ALL AUDIBLE AND VISUAL CIRCUITS SHALL BE STYLE Y/CLASS B.
•	CONDUITS MAY NOT ENTER THE TOP OF ANY FIRE ALARM EQUIPMENT CABINET.
5. 5. 7.	ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED WITH AESTHETICS IN MIND. CABINETS SHALL BE SEMI FLUSH MOUNT ALL FIRE ALARM CABINETS AND JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED. ALL FIRE ALARM CABINET ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. ALL TERMINALS SHALL BE NUL
•	OR SCOTCH LOCKS. ALL LOW VOLTAGE FIRE ALARM CONDUCTORS SHALL BE PROTECTED BY EITHER BUILDING CONSTRUCTION OR CONDUIT T SYSTEM WIRING, MECHANICAL AND ELECTRICAL ROOMS AND OTHER LOCATIONS SUBJECT TO MECHANICAL DAMAGE SHALL
	WITHOUT CONDUIT ABOVE 8 FT.
	ALL LOW VOLTAGE WIRING SHALL BE FPLP 150 DEGREE C UL LISTED FIRE ALARM WIRE. ALL NOTIFICATION CIRCUITS AWG MINIMUM.
•	POLARITY SHALL BE OBSERVED ON ALL CIRCUITS. T-TAPPING SHALL NOT BE ALLOWED ON ANY NOTIFICATION CIRCUITS WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER.
2.	ALL WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS.
5.	SHIELDED CONDUCTORS OR RUNNING IN SEPARATE RACEWAY SHALL BE AS INSTRUCTED BY THE FIRE ALARM MANUFACT AMPLIFIERS SHALL BE RUN IN A SEPARATE RACEWAY (NOTE: CENTRALIZED AMPLIFIERS, ARE NOT PERMITTED ON NEW S
4.	A CENTRAL STATION DIALER AND TWO DEDICATED PHONE LINES SHALL BE PROVIDED. THE DIALER SHALL BE CAPABLE MONOXIDE, TROUBLE, PUMP RUNNING AND PUMP TROUBLE.
5.	ALL AREA OR DUCT SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC TYPE.
3. 7	SMOKE DETECTORS MUST BE MOUNTED AT LEAST 3 FT AWAY FROM ANY AIR REGISTER.
'. 3.	ALL CEILING MOUNT DEVICES MUST BE SECURELY FASTENED TO BUILDING CONSTRUCTION.
9.	DUCT MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON THE DUCTWORK IN STRICT ACCORDANCE WITH THE MANUFA
).	MANUAL PULL STATIONS SHALL BE MOUNTED 48 INCHES ABOVE THE FINISHED FLOOR TO THE HANDLE OF THE STATION THAT THEY ARE KEPT UN-OBSTRUCTED AT ALL TIMES.
•	ALL STROBE LIGHTS SHALL BE UL-1971 APPROVED/LISTED. THE MINIMUM CANDELA IS 30 UNLESS OTHERWISE NOTED.
2.	NOTIFICATION DEVICES THAT INCLUDE A STROBE SHALL BE MOUNTED 80 INCHES OFF THE FINISHED FLOOR TO THE BO
3.	WITHIN THE REQUIRED VOLTAGE AND CURRENT OF THE CONTROLLED DEVICE. SLAVE OR INTERPOSING RELAYS SHALL BE POSITION. POWER TO THE INTERPOSING RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
١.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL ABANDONED FIRE ALARM CABINETS, DEVICES,
5.	FOR APPLICATIONS REQUIRING A FIRE ALARM SYSTEM REPLACEMENT (FCC, FACP, OR SCP, SSCP ETC), THE CONTRACTO ACT AS ONE. ONCE SYSTEM APPROVAL IS GRANTED, THE CONTRACTOR SHALL THEN BE RESPONSIBLE FOR REMOVING T WATCH, IF NECESSARY, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
5.	CARBON MONOXIDE (CO) AND COMBINATION SMOKE AND CO DETECTORS SHALL BE FULLY ADDRESSABLE AND INCLUDE DEVICE SHALL INCLUDE SEPARATE CO AND SMOKE DETECTORS, EACH WITH AN INTERNAL SYNCHRONIZED TEMPORAL 3 MONITOR BOTH TYPES SEPARATELY. IF POWERED SEPARATELY (24VDC), POWER TO THE DEVICE SHALL ALSO BE SUPE
•	BOOSTER POWER SUPPLIES SHALL BE PROVIDED AS NECESSARY FOR STROBE CIRCUIT DRAW AND LENGTHY STROBE CIR DETECTOR MOUNTED DIRECTLY ABOVE IT.
	ALL REMOTE FIRE ALARM CONTROL CABINETS (DATA GATHERING PANELS, TTBS ETC) SHALL INCLUDE AN INTERNAL TAMI ABOVE IT SHOULD ONE OR MORE NOT ALREADY BE SHOWN ON THE PLANS IN THE ROOM THE PANEL IS MOUNTED IN.
).	REFER TO HVAC, FIRE PROTECTION, SECURITY AND FIRE ALARM FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS
).	CONTRACTOR'S RESPONSIBILITY TO SHOW ALL WIRING, ZONING, ETC IN SHOP DRAWINGS. CONTRACTOR TO COORDINAT WELL AS COMPLY WITH CODE.
•	ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERABLE ADDRESSABLE, MULTIPLEXED FIRE SUPPLIES.
2.	ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TWO DAYS FOR FIRE DEPARTMENT ACCEPTANCE AND TWO DAYS F MANAGER).
•	SUBMIT COMPLETE SHOP DRAWINGS FOR THE SYSTEM, INCLUDING WIRING DIAGRAMS, CATALOG CUTS OF ALL DEVICES,
4.	ELECTRICAL CONTRACTOR SHALL PERFORM ALL NECESSARY FIRE DEPARTMENT FILING. WORK SHALL NOT BE CONSIDERI APPROVED.
	ELECTRICAL CONTRACTOR SHALL FIRE STOP ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS AND SLABS.
	PROVIDE A SIGN AT THE ENTRANCE TO THE BUILDING & ENTRANCE INDICATING THE LOCATION OF THE MAIN FIRE ALAR
7.	COORDINATE LOCATIONS OF ALL DEVICES AND CONDUIT ROUTING WITH ARCHITECT PRIOR TO ANY WORK AND INSTALLAT
•	ALL COMBINATION AUDIBLE/VISUAL ALARM UNITS AND VISUAL(STROBE UNITS) SHALL BE WALL MOUNTED AT NO HIGHER ALL MANUAL PULL STATIONS, BEAM DETECTORS, SOUNDING AND VISUAL ALARM DEVICES AND FIRE ALARM PANEL SHALL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PROCRAMMING. WHE AND DEVICES REQUIRED TO INTERFACE
•	ALARM SYSTEM.
•	PROVIDE QUANTITY OF ADDRESSABLE LOOPS REQUIRED TO NOT EXCEED THE NUMBER OF ADDRESSABLE DEVICES PER A
۱.	REFER TO ELECTRICAL DRAWINGS FOR POWER SUPPLY TO THE FIRE ALARM SYSTEM. PROVIDE FINAL AS PER INSTALLATION WIRING DIAGRAM & INSTRUCTIONS OF THE FIRE ALARM SYSTEM MOUNTED SECURI
2.	CONNECT TO GENERATOR (IF PRESENT) FOR STATUS MONITORING AND BATTERY STATUS.
3. 4.	CONTRACTOR TO REVIEW HVAC, SECURITY, AND OTHER CONSULTANT DRAWINGS, THESE INCLUDES BUT NOT LIMITED TO CONTROLS, MOTORIZED DOOR & WINDOWS, ETC THEY SHALL CONTROL AND RECEIVE STATUS INDICATION (OPEN & CLO REQUIRED BY CODE AND PROVIDE RELAYS/CONTROL MODULES FOR FIRE ALARM SYSTEM CONTROL FOR THE STARTING A FANS/MOTORS WITH EACH ASSOCIATED CONTROL WIRING.
j.	PROVIDE 20A, 1P, 120V CIRCUIT TO ALL FIRE SMOKE DAMPERS FROM EMERGENCY SOURCE PANEL AND SHALL BE TIE- FIRE SMOKE DAMPERS (FSD's) WITH HVAC DRAWINGS. REFER TO ELECTRICAL DRAWING FOR FSD'S CIRCUITRY. THE CO REQUIRES MORE THAN ONE DETECTORS OR LONGER SAMPLING TUBE, THEY SHALL PROVIDE ADDITIONAL DEVICES OR LO PROVIDED AS PART OF BASE BID FOR A COMPLETE CODE COMPLIANT SYSTEM.
6.	ALL OUTDOOR FIRE ALARM DEVICES SHALL BE WEATHERPROOF TYPE.
 7.	ALL FIRE ALARM EQUIPMENT SHALL BE KEPT UNOBSTRUCTED ALL TIMES.

FPA 72. CIRCUIT WHICH SHALL BE NFPA STYLE 7 (CLASS A WITH ISOLATION). DUAL CLASS B NETWORKING IS ITED AND CABLE TRAYS SHALL BE HIDDEN. ETS SHALL BE CLEARLY LABELED WITH A LAMINATE ENGRAVED LABEL. UMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS TO 8 FEET ABOVE THE FINISHED FLOOR. LOADING DOCKS, GARAGES, SUPPRESSION AND EXTINGUISHING LL BE IN FULL RIGID CONDUIT. IN ALL OTHER AREAS, 2-HOUR RATED FIRE ALARM WIRE MAY BE RUN L NOT BE MIXED OR WIRED NEAR ANY AC CIRCUIT. S SHALL BE A MINIMUM OF 14 AWG AND ALL OTHER LOW VOLTAGE FIRE ALARM CIRCUITS SHALL BE 16 6 (HORN, STROBE OR SPEAKER). T-TAPPING SHALL NOT BE PERMITTED ON ADDRESSABLE CIRCUITS CTURER'S DOCUMENTATION. ALL NON-POWER LIMITED WIRING, INCLUDING CIRCUITS FOR CENTRALIZED SYSTEMS). OF SENDING THE FOLLOWING EVENTS: ALARM, MANUAL STATION, WATERFLOW, SUPERVISORY, CARBON ACTURERS INSTRUCTIONS. ALL DUCT DETECTORS SHALL BE PROVIDED WITH A REMOTE LED. AND SHALL BE PAINTED FIRE DEPARTMENT RED. ALL MANUAL STATION SHALL BE INSTALLED SO OTTOM OF THE STROBE, NOT NECESSARILY THE ELECTRICAL BOX. WIRED A MAXIMUM OF 3 FT FROM THE CONTROLLED DEVICE. THE AUXILIARY RELAY SHALL FUNCTION INCLUDED AND POWERED BY THE FIRE ALARM CONTROL PANEL IN A FAIL-SAFE (FIRE FUNCTION) AND WIRE. PAINT, PATCH AND CLEANUP SHALL ALSO BE INCLUDED. TOR SHALL BE RESPONSIBLE FOR INTERFACING THE NEW SYSTEM WITH THE OLD SYSTEM SO THAT THEY THE OLD SYSTEM INCLUDING REMOVING OLD WIRE AND CONDUIT, PATCH, PAINT, AND CLEANUP. FIRE A SOUNDER BASE. MANUFACTURERS THAT DO NOT OFFER AN ADDRESSABLE CO OR SMOKE/CO TYPE AND 4 SOUNDERS, AND THE NECESSARY MONITORING DEVICES SO THAT THE FIRE ALARM SYSTEM MAY ERVISED. IRCUIT RUNS. PROVIDE A SEPARATE 120V POWER FEED FOR EACH BOOSTER AS WELL AS A SMOKE MPER SWITCH. EACH SHALL ALSO INCLUDE A SMOKE DETECTOR MOUNTED ON THE CEILING DIRECTLY S OF ALL FIRE ALARM DEVICES. TE WITH ARCHITECTURAL DRAWING FOR ELEVATIONS, SECTIONS, MOUNTING HEIGHTS AND DETAILS. AS ALARM SYSTEM COMPLETE WITH ALL REQUIRED REMOTE TRANSPONDERS, BATTERIES AND POWER FOR OWNER ACCEPTANCE FOR EACH PHASE OF THIS PROJECT (COORDINATE WITH CONSTRUCTION , AND SYSTEM RISER DIAGRAM, BATTERY CALCULATION. RED COMPLETE UNLESS ALL NECESSARY FILING, TESTS, AND INSPECTIONS ARE COMPLETED AND ARM CONTROL PANEL. TION. R THAN 80" A.F.F. ALL STROBE LIGHTS WITHIN A COMMON VISUAL ZONE SHALL BE SYNCHRONIZED. L BE KEPT UNOBSTRUCTED ALL ALL TIMES.

CE SPRINKLER, HVAC, ELEVATOR AND SECURITY SYSTEMS WITH ADDRESSABLE COMPONENTS OF THE FIRE

APPLICABLE CODE OR MANUFACTURER'S STANDARDS.

JRELY INSIDE THE FIRE ALARM CONTROL PANEL.

O SMOKE DAMPERS, FIRE SMOKE DAMPERS, ELEVATOR CONTROLS, FIRE DOORS HARDWARE AND LOSED) FOR EACH ASSOCIATED CONTROL CIRCUITS. INTERFACE WITH THE FIRE ALARM SYSTEM AS AND STOPPING OF ALL LIFE SAFETY RELATED SMOKE EXHAUST, SMOKE PURGE AND CONTROLLING

E-IN WITH FIRE ALARM SYSTEM. CONTRACTOR SHALL COORDINATE QUANTITY AND LOCATIONS OF ALL CONTRACTOR SHALL REVIEW HVAC DRAWINGS AND SCHEDULES FOR ALL DUCT SIZES. IF DUCT SIZE LONGER SAMPLING TUBES TO SATISFY NFPA AND BUILDING CODE REQUIREMENTS. THIS SHALL BE

	FIRE ALARM SEQUENCE OF OPERATION		FIRE ALARM
А.	ACTIVATION OF A MANUAL PULL STATION WILL DO THE FOLLOWING: a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL. b. SHUTDOWN ALL FANS GREATER THAN 1000 C.F.M. AND CLOSE ASSOCIATED FIRE SMOKE DAMPERS AND SMOKE DAMPERS. c. ACTIVATE HORN AND STROBES. d. SOUND AN AUDIBLE ALARM TONE WITHIN ZONE CONTAINING INITIATING FIRE ALARM SIGNAL.	Ś	SMOKE DETECTOR, CEILING MOUNTED, SUBSCRIPT DENOTES: E – ELEVATOR RECALL D – DUCT DETECTOR BR – BEAM DETECTOR (RECIEVER) BT – BEAM DETECTOR (TRANSMITTER)
	e. SEND A PULL STATION ALARM SIGNAL TO CENTRAL OFFICE.	⊢⟨S⟩	SMOKE DETECTOR, WALL MOUNTED
В.	ACTIVATION OF AN AREA SMOKE DETECTOR OR DUCT DETECTOR WILL DO THE FOLLOWING: a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL. b. SHUTDOWN ALL FANS GREATER THAN 1000 C.F.M. AND CLOSE ASSOCIATED FIRE SMOKE DAMPERS AND SMOKE DAMPERS.	$\begin{array}{c} \langle H \rangle \\ \hline H \rangle \\ \hline H \rangle \end{array}$	HEAT DETECTOR, CEILING MOUNTED HEAT DETECTOR. WALL MOUNTED
	C. ACTIVATE HORN AND STROBES.		CARBON MONOXIDE DETECTOR CEILING MOUNTED
	e. SEND A SMOKE ALARM SIGNAL TO CENTRAL OFFICE.		CARBON MONOVIDE DETECTOR WITH SOUNDER DASE, WALL MOUNTED
	g. OPERATE ALL DOOR RELEASES AT EGRESS DOORS.		CARBON MONOADE DETECTOR WITH SOUNDER BASE, WALL MOUNTED
	ACTIVATION OF A WATERFLOW SWITCH WILL DO THE FOLLOWING.		GAS DETECTOR, CEILING MOUNTED
C.	 a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL b. SHUTDOWN ALL FANS GREATER THAN 1000 C.F.M. AND CLOSE ASSOCIATED FIRE SMOKE DAMPERS AND SMOKE DAMPERS. c. ACTIVATE HORN AND STROBES. d. SOUND AN AUDIBLE ALARM TONE WITHIN ZONE CONTAINING INITIATING FIRE ALARM SIGNAL. e. SEND A WATERFLOW ALARM SIGNAL TO CENTRAL OFFICE f. OPERATE ALL DOOR RELEASES AT EGRESS DOORS. 		GAS DETECTOR WITH SOUNDER BASE, WALL MOUNTED FIRE ALARM STROBE, WALL MOUNTED, SUBSCRIPT DENOTES: # - CANDELA RATING WG - WIRE GUARD WP - WEATHER PROOF CO - REMOTE STROBE FOR CO DETECTOR G - REMOTE STROBE FOR GAS DETECTOR
D.	a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL	○ ▼	FIRE ALARM STROBE, CEILING MOUNTED
	b. SEND A SUPERVISORY SIGNAL TO CENTRAL OFFICE.	S H	FIRE ALARM COMBINATION SPEAKER/STROBE, WALL MOUNTED
Ε.	OPERATION OF A KITCHEN HOOD EXHAUST SYSTEM MONITORING DEVICE WILL DO THE FOLLOWING:	S S	FIRE ALARM COMBINATION SPEAKER/STROBE, CEILING MOUNTED
	A ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL	⊖ [H]	FIRE ALARM COMBINATION HORN/STROBE, WALL MOUNTED
	b. ACTIVATE AUDIBLE ALARM TONE WITHIN ZONE CONTAINING INITIATING FIRE ALARM SIGNAL.	O H	FIRE ALARM COMBINATION HORN/STROBE, CEILING MOUNTED
	d. SEND A SMOKE ALARM SIGNAL TO CENTRAL OFFICE. d. SEND SIGNAL TO BMS SYSTEM AND/OR KITCHEN HOOD CONTROL PANEL TO BEGIN SMOKE EXHAUST SEQUENCE.	S S	FIRE ALARM SPEAKER, WALL MOUNTED
_		S	FIRE ALARM SPEAKER, CEILING MOUNTED
ŀ.	ACTIVATION OF A CARBON MONOXIDE DETECTOR WILL DO THE FOLLOWING:	↓ H	FIRE ALARM HORN, WALL MOUNTED
	a. INITIATE A DISTINCT CARBON MONOXIDE DETECTOR SUPERVISORY SIGNAL FOR CORRESPONDING DETECTOR ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.		FIRE ALARM HORN, CEILING MOUNTED
	b. ACTIVATE DISTINCT LOCAL CARBON MONOXIDE DETECTOR HORN/STROBE DEVICES FOR ASSOCIATED DETECTOR IN ALARM	B	BELL, WALL MOUNTED
	c. ACTIVATE CARBON DETECTOR SOUND BASE (IF PRESENT). d. SEND A DISTINCT CARBON MONOXIDE DETECTOR SUPERVISORY SIGNAL TO CENTRAL OFFICE	F	MANUAL PULL STATION
		W	SPRINKLER WATER FLOW SWITCH
G.	A CARBON MONOXIDE DETECTOR IN A TROUBLE CONDITION WILL DO THE FOLLOWING:	T	SPRINKLER TAMPER SWITCH
	a. INITIATE A DISTINCT CARBON MONOXIDE DETECTOR TROUBLE SIGNAL FOR CORRESPONDING DETECTOR ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.	R	FIRE ALARM RELAY
	b. SEND A DISTINCT CARBON MONOXIDE DETECTOR TROUBLE SIGNAL TO CENTRAL OFFICE.	SR	FIRE ALARM SHUTDOWN RELAY
GEN	NERAL NOTES:	Н	DOOR HOLDER
1.	NEW FIRE ALARM DEVICES TO MATCH EXISTING FIRE ALARM DEVICES. COORDINATE REQUIREMENTS WITH FIRE ALARM VENDOR FOR BUILDING	FSD	FIRE/SMOKE DAMPER
	DROVIDE ROOSTERS ROWER EXTENDERS AND END OF LINE RESISTORS AS NEEDER	SD	SMOKE DAMPER
Z.	FRUVIUE DUUSIERS, FUWER EXTENUERS AND END OF LINE RESISTORS AS NEEDED.	FACP	FIRE ALARM CONTROL PANEL
3.	REMOTE POWER SUPPLIES SHOULD BE ACCESSIBLE AND LOCATED IN ELECTRICAL ROOMS OR CLOSETS.	FAAP	FIRE ALARM ANNUNCIATOR PANEL
4.	REFER TO POWER DRAWINGS FOR POWER CONNECTION TO FIRE ALARM PANELS AND EQUIPMENT.		1
5.	FIRE ALARM RISER DIAGRAM ONLY INDICATES QUANTITIES OF NEW AND/OR RELOCATED FIRE ALARM DEVICES EFFECTED AS PART OF		

THIS SCOPE OF WORK. EXISTING TO REMAIN DEVICES SHOWN ONLY FOR REFERENCE PURPOSES.























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	FACULTY LOUNGE					
	1 THIRD FLOOR FIRE ALARM PLAN - AREA '3'					
	FA133 ^{1/8" = 1'-0"}					
	SHEET NOTES					
Α.	FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.					
в.	ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.					
c.	REFER TO E900 SERIES DRAWING FOR ADDITIONAL DETAILS ON REQUIRED FIRE ALARM SHUTDOWN FOR MECHANICAL UNITS.					
D.	REFER TO M100 SERIES DRAWINGS FOR ADDITIONAL DETAILS ON FIRE/SMOKE AND SMOKE DAMPERS.					
Ε.	REFER TO FP100 SERIES DRAWINGS FOR ADDITIONAL DETAILS ON BUILDING SPRINKLER SYSTEM.					
F.	REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS TO PROVIDE NEW COMPLETE FIRE ALARM SYSTEM.					







GENERAL DEFINITIONS:

- A. INDICATE: THE TERM "INDICATE" REFERS TO GRAPHIC REPRESENTATIONS, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.
- B. DESCRIBED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.
- C. APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.
- D. FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."
- E. INSTALL: THE TERM "INSTALL IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."
- F. PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL COMPLETE AND READY FOR THE INTENDED USE."
- G. INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.
- H. ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS." THESE SYSTEMS INCLUDE BUT NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC.

DEVICE MOUNTING LOCATION DETAIL T001 NTS

- A. MOUNTING LOCATIONS OF DATA DEVICES.B. DEVICE HEIGHTS ARE TO BE AS INDICATED UNLESS OTHERWISE NOTED.



OUTLET



ABBREVIATIONS DESCRIPTION ABBREV. AC • ABOVE COUNTER AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AV AUDIOVISUAL AWG AMERICAN WIRE GAUGE CONDUIT С СТ CABLE TRAY CU COPPER DOWN DN EA EACH EMT ELECTRICAL METALLIC TUBING FBO FURNISHED BY OTHERS GC GENERAL CONTRACTOR G/GND GROUND NA NOT APPLICABLE NEC NATIONAL ELECTRICAL CODE NOT IN CONTRACT NIC NTS NOT TO SCALE OC MOUNTED OVER COUNTER SPD SURGE PROTECTIVE DEVICE SPEC SPECIFICATION ΤV TELEVISION TYP TYPICAL UC MOUNTED UNDER COUNTER HEIGHT UL UNDERWRITER'S LABORATORY UON UNLESS OTHERWISE NOTED UPS UNINTERRUPTIBLE POWER SUPPLY VOLT V WIRE OR WATT W WP WEATHER PROOF

LEGEND

DATA OUTLET

OF WAP LOCATION.

DATA RACK

BOTTOM

INTERCOM

FLOOR BOX

SPEAKER(S)

UNIT

DEVICE

INDICATES TYPE:

F - FISHEYE

B - **BI-DIRECTIONAL**

S - SINGLE POINT

T - THREE-WAY

O - ONE-EIGHTY DEGREE

V - TWO-SEVENTY DEGREE

WP - WEATHER PROOF

VAPE DETECTOR

DESCRIPTION

CABLE TRAY; 12"W x 6"D SOLID

CEILING AND WALL MOUNTED

SECURITY CAMERA, SUBSCRIPT

WALL MOUNTED CLOCK

SYMBOL

WAP

DR

FB

AC

VAPE

S

S

Ф©

PA

- L. CONTRACTOR SHALL PROVIDE BACKBOX AND CONDUIT ROUTED TO NEAREST CABLE TRAY FOR ALL WALL MOUNTED DEVICES. CONDUIT SHALL BE SIZED TO ACCOMMODATE QUANTITY OF DEVICES BEING FED TO EACH DEVICE. CONDUIT SHALL BE 3/4" MINIMUM.
- M. COORDINATE WORK WITH ALL OTHER TRADES. N. CONTRACTOR TO INSTALL ALL DEVICES INCLUDING, BUT NOT

GENERAL NOTES (APPLY TO ALL DRAWINGS):

A. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE

B. THE CONTRACTOR SHALL PERFORM HIS WORK BY COORDINATING

NOISE, WORK AREA LIMITATIONS, ALLOWABLE WORKING HOURS,

FACILITIES/PRECAUTIONS TO GUARD AGAINST WORK THAT IS AN

COORDINATION, LOCATION, AND QUALITY OF THESE TEMPORARY

TIMES. OPEN-ENDED ITEMS SUCH AS CONDUITS SHALL ALWAYS BE

CONDUIT WHERE INSTALLED EXPOSED AT AREAS W/O CEILINGS OR ABOVE IN CONCEALED CEILINGS. CABLES CAN BE INSTALLED

EXPOSED ABOVE ACCESSIBLE CEILINGS. ALL EXPOSED CABLES ARE

TO BE ANCHORED TO WALL OR ROOF STRUCTURE IN BRIDLE RINGS

F. PROVIDE CONDUIT BODY FOR ALL DATA AND SIGNAL CABLES TO BE

INACCESSIBLE CEILINGS. CABLES CAN BE INSTALLED EXPOSED

ABOVE ACCESSIBLE CEILINGS AND THEREFORE DO NOT REQUIRE

G. CONDUIT RUNS ARE SCHEMATIC ONLY. ALL CONDUIT RUNS SHOULD

TAKE THE SHORTEST MOST DIRECT ROUTE POSSIBLE. CONDUIT

RUNS MAY HAVE A MAXIMUM OF (3) 90` BENDS. IF ADDITIONAL

H. CABLE TRAY SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT. CABLE TRAY SHALL BE PAINTED BEFORE ANY CABLES ARE

INSTALLED AS PAINT COULD DAMAGE UTP CABLE JACKETING.

TERMINATE CABLE TRAY ON EITHER SIDE OF THE WALL AND

PROVIDE FOUR (4)" EMT CONDUIT SLEEVES IN FIRE WALL. SEAL

CONDUIT PENETRATIONS AS DIRECTED BY THE SPECIFICATIONS.

J. ALL CABLE TRAY SHALL BE MOUNTED 9'-0" AFF WHERE ALLOWED BY

MOUNTING HEIGHT, CONTRACTOR SHALL PROVIDE ALTERNATE

K. ALL CABLE NOT INSTALLED IN CABLE TRAY SHALL BE SUPPORTED

FIELD CONDITIONS. IF FIELD CONDITIONS DO NOT ALLOW FOR 9'-0"

I. WHERE CABLE TRAY IS SHOWN PENETRATING A FIRE WALL,

INSTALLED EXPOSED AT AREAS W/O CEILINGS OR ABOVE

OPERATIONS INTERRUPTION, ETC.). THE CONTRACTOR SHALL

D. ALL WORK AREAS SHALL BE KEPT CLEAN AND ORDERLY AT ALL

COVERED AND PROTECTED TO PROHIBIT ACCUMULATION OF

E. ALL COMMUNICATION AND DATA CABLE ARE TO BE INSTALLED IN

COMPLY WITH FACILITY REPRESENTATIVES FOR THE

INFECTION CONTROL HAZARD OR NUISANCE (SUCH AS NOISE, DUST,

WITH THE FACILITY REPRESENTATIVE REGARDING SUCH THINGS AS

LATEST ADOPTED N.E.C./NFPA 70 CODE.

C. THE CONTRACTOR SHALL INSTALL TEMPORARY

UTILITY INTERRUPTIONS, ETC.

CONSTRUCTION DUST/DEBRIS.

AT MINIMUM 3'-0" O.C. OR IN CABLE TRAY.

BENDS ARE REQUIRED, PROVIDE PULLBOX.

ROUTING TO BE APPROVED BY EOR.

VIA J-HOOKS OR ROUTED THROUGH CONDUIT.

PROVISIONS.

CONDUIT.

- LIMITED TO CAMERAS, WALL PHONES, WAPS, VAPE DETECTORS, SPEAKERS, CLOCKS, DATA RECEPTACLES, AND NETWORK

- ELECTRONICS (PROVIDED BY OTHERS).

- ALL PATCH CORDS ARE TO BE UNIQUELY LABELED AT EACH
- a. WHEN INSTALLING NETWORK ELECTRONICS:

- END AT APPROXIMATELY 2 INCHES FROM THE TERMINATION POINT.
- CONTRACTOR IS REQUIRED TO INCLUDE WITH HIS
- PROPOSAL SUFFICIENT TIME AND MATERIALS TO INSTALL

- CUSTOMER PROVIDED NETWORK SWITCHES.

- CONTRACTOR SHALL RECEIVE DEVICES FROM THE CLIENT

PER TELECOMMUNICATIONS CLOSET.

PROVIDED WAPS FOR DATA.

b. WHEN INSTALLING WAPs:

POINTS.

PERSONNEL.

CONTRACTOR IS REQUIRED TO INCLUDE WITH HIS

CUSTOMER PROVIDED NETWORK EQUIPMENT.

THIS INCLUDES BOTH INTERIOR AND EXTERIOR WAPS.

CONTRACTOR SHALL RECEIVE AND INSTALL DEVICES IN

POSITIONS SHOWN ON DRAWINGS. ALL MOUNTING

HARDWARE SHALL BE PROVIDED BY CONTRACTOR.

CONTRACTOR SHALL COORDINATE ALL POSITIONS AND

MOUNTING HEIGHTS WITH ARCHITECT AND CUSTOMER IT

CUSTOMER SHALL PROGRAM AND TEST ALL ACCESS

CONTRACTOR IS REQUIRED TO INCLUDE WITH HIS

- WITH CUSTOMER IT PERSONNEL PRIOR TO INSTALL.
- AND INSTALL. MOUNTING POSITIONS SHALL BE REVIEWED

PROPOSAL SUFFICIENT TIME AND MATERIALS TO INSTALL

PROPOSAL TIME AND MATERIALS TO INSTALLED CUSTOMER

- CONTRACTOR SHALL ASSUME SIX (6) NETWORK SWITCHES







DRAWING NOTES:





- A. REFER TO DETAIL LINE ON DRAWING DE DATA CLOSET DEVICES SHALL BE CONN
- B. ALL CAMERAS SHALL BE PENDANT MOU THEY CAN BE INSTALLED IN A DROP CEII MOUNTED AS CONDITIONS ALLOW. COO CAMERA SPECIFICATIONS. IF PENDANT I COORDINATE MOUNTING HEIGHT WITH (MOUNTED DEVICES INCLUDING BUT NOT LIGHTING, HVAC DUCTWORK, PIPING, ET THERE ARE NO OBSTRUCTIONS TO CAM
- C. ALL EXTERIOR CAMERAS MOUNTED AT OTHERWISE NOTED.
- D. UNLESS PREVENTED BY FIELD CONDITIC TRAY SHALL BE WALL MOUNTED. IF WAL NOT POSSIBLE, CABLE TRAY SHALL BE P MOUNTED.

DRAWING NOTES:

1. PROVIDE NEW IP BASED BUILDING WIDE PUBLIC ADDRESS (PA) SYSTEM. REFER TO SPECIFICATIONS FOR MORE INFORMATION. PA SYSTEM TO INTERFACE WITH DISTRICT LOCKDOWN PROCEDURES. COORDINATE LOCKDOWN REQUIRMENTS WITH OWNER. BUILDING WIDE CLOCK SYSTEM TO BE INTERFACED WITH PA SYSTEM. PROVIDE MASTER CLOCK STATION WITH WIRELESS CLOCKS AS

INDICATED IN SPECIFICATIONS.

2. ROUTE CONDUIT UNDER SLAB FROM NEAREST WALL AND PUNCH UP TO SERVING LINE FOR DATA CONNECTION TO POS STATION. PROVIDE A PEDESTAL MOUNTED BOX ON TOP OF STUBBED UP CONDUIT. COORDINATE EXACT LOCATION OF EQUIPMENT AND SERVING LINE WITH ARCHITECTURAL PLANS.



DENOTING WHICH
DUNTED UNLESS EILING OR WALL DORDINATE WITH T MOUNTED, H OTHER CEILING OT LIMITED TO, ETC. SO THAT MERA VIEW.
T 10' UNLESS
FIONS, CABLE /ALL MOUNTING IS E PENDANT









- B. UNLESS PREVENTED BY FIELD CONDITIONS, CABLE TRAY SHALL BE WALL MOUNTED. IF WALL MOUNTING IS NOT POSSIBLE, CABLE TRAY SHALL BE PENDANT MOUNTED.











B. UNLESS PREVENTED BY FIELD CONDITIONS, CABLE TRAY SHALL BE WALL MOUNTED. IF WALL MOUNTING IS NOT POSSIBLE, CABLE TRAY SHALL BE PENDANT MOUNTED.

DRAWING NOTES:

1. ROOM SHALL BE WRAPPED IN 3/4" PLYDWOOD AND PAINTED WITH A FIRE RESISTANT PAINT. PAINT SHALL BE LIGHT IN COLOR. PLYWOOD SHALL STOP 6" ABOVE THE FLOOR.



ENLARGED MDF ROOM









B. UNLESS PREVENTED BY FIELD CONDITIONS, CABLE TRAY SHALL BE WALL MOUNTED. IF WALL MOUNTING IS NOT POSSIBLE, CABLE TRAY SHALL BE PENDANT MOUNTED.

DRAWING NOTES: 1. ROOM SHALL BE WRAPPED IN 3/4" PLYDWOOD AND

A. REFER TO DETAIL LINE ON DRAWING DENOTING WHICH DATA CLOSET DEVICES SHALL BE CONNECTED TOO.



















STUDIO UPPER LEVEL CONTROL PLAN - AREA '3' TL302 3/4" = 1'-0"



NOTES: Interface New Fixtures Into The Plot And/Or To Reconfigure/Combine Existing Fixtures Per Future Requirements.

For All Cabling Required For The Initial Fixture Plot Interconnects, Field Verify & Provide All Required Cabling In Order To Mount Fixtures Per Owner's Lighting Plot. Ensure That All Initial Plot Cable Lengths Are Of Sufficient Length For The Indicated Interconnection And Placement Of Devices. If Longer Cable Lengths Are Required To Reach Device Placements, Then Provide Longer Cables As Needed. All Cabling Should Have Sufficient Length To Reach The Next Indicated Device Without Stretching The Cable, Swagging The Cable Unsupported Through The Air Between Fixtures Or Stressing The Connectors. Typical Cable Dress Should Be From Device, Back Through Fixture Yoke, Neatly Wrapped Along Pipe To Next Device Location, Through Fixture Yoke And Then To The Indicated Device. No Cables Are To Be Stretched From Device To Device Through The Light Output Pattern Of A Fixture Or Across The Path Of Any Other Device. This Note DOES NOT Apply To Any Cables In The Spare Portable Equipment List. Provide Those Types Of Cables In The Lengths Indicated.

Length) Choked Onto One End Approx. 1" From The Connector.

Terminate DMX Runs As Required. This Is To Ensure Constant Voltage Across All Units, To Maintain Data Signal • 5 YEAR FULL FIXTURE WARRANTY Integrity & Full Fixture Functionality, To Reduce Line Loss And To Provide Data Signal Termination As Required • 10 YEAR LED ARRAY WARRANTY

And As Specified By Each Manufacturer.

LED Fixtures Shall Only Be Plugged Into Relay Controlled/Non-Dimmed Outlets. DO NOT Plug LED Fixtures Into Channels That Are Powered Via Dimmer Modules Or Irreparable Damage Could Be Done To The Fixtures.

As Such By The Installing Contractor. Fixtures Shown In Line With Other Fixtures, Even If They Appear Beyond

Device Together With The Others Next To Them.

The End Of A Connector Strip Or Other Related Device, Are Intended To Be Mounted On That Same Batten Or

The Physical Fixture Layout Locations Shown On This Drawing Are Not Intended To Be A Final Lighting Plot. The

Actual Fixture Plot & Physical Fixture Layout Is TBD By The Owner During The Focus Plot Day(s) And Arranged



NOTES - CONTINUED:

The Cable Lengths Indicated In The Above Tables Are In Addition To All Required Hookup Cabling For The Initial Focus Plot. This List Is Intended To Be The Owner's Spare Portable Cabling Inventory That Can Be Used To

The Studio Lighting Fixtures Shall Not Be Installed In This Space Until All Dust Creating Work, Paint Work, Drywall Work, Sanding Work Has Been Completed And All Dust/Debris Has Been Cleaned Up. If Fixtures Must Be Installed Prior To Completion Of This Work Or Cleanup, Then They Must Be Fully Wrapped In Heavy Duty Plastic Bags That Are Taped Shut. Fixtures May Not Be Powered On Or Even Plugged Into Power While Bagged. Instruct The Owner On The Hazards Of Leaving Studio Fixtures On For Long Periods Of Time While Aimed Directly At Sensitive Items Such As Curtains, Backdrops, Etc. Fixtures Should Only Be On For The Duration Of Shoots, Etc. And Not Aimed At Or Focused On Full For Hours Onto Any Potentially Flammable Items Such As

Those Noted Above, Even Though These Items May Have Flame Retardant Characteristics. FIXTURE WARRANTY NOTE:

Every Portable Cable Shown Or Referenced On The TL Series Drawings Shall Have One 24" Piece Of Samson Black Braided Tie Line/Rip-Tie Hook & Loop Black Velcro (16" Tie Line For Portable Cables Under 8' In Overall PROJECT SHALL FEATURE THE FOLLOWING WARRANTIES TO MATCH THE SPECIFIED MANUFACTURER'S STANDARD WARRANTY:





Provide All Fixtures With Malleable Iron C-Clamp (And Required Adapters), 30" Black Safety Cable With 5/16" Spring Clip And 36" Long Power Cable. Label Each Fixture, Data & Lighting Power Cable As To Type & Length At End With Self-Laminating Or Clear Heat Shrink Style Labels.

All Devices Have Been Located In Approx. Installation Locations; However, Obtain All Final Locations In Writing From The Owner Or Owner's Representative Prior To Locating Fixtures & Incorporating Into Overall Focus Plot (This Includes Locations For All Previously Removed Fixtures Being Incorporated Into New Focus Plot-None Of These Fixtures Have Been Shown On This Plan. Fixtures Shown Here Are New Fixtures Only).

Provide All Fixtures In This Symbols Key With All DMX Addressing & Setup, PowerCon & Network Cables, Etc. As Well As All Tie Lines, Yoke Markings, Etc. Uncrate, Assemble, Burn-In, Address, Group, Hang & Focus All Of These Fixtures Per The Owner's Instructions, Ready For Use. All Accessories, Markings, Etc. Noted Are Required For All Fixtures. Label Each Fixture Yoke With Fixture Wattage, DMX Address, Etc. In Black Block Lettering On Safety Yellow Gaff Tape Or Other Durable Label.

STUDIO FIXTURE PLAN - AREA '3' TL303 ^{1/2" = 1'-0"}

EQUIPMENT:	
Equipment	Quantity
5' Portable Gender-Bender DMX Cables - M/M	2
5' Portable Gender-Bender DMX Cables - F/F	2
5' Portable DMX Cables	6
10' Portable DMX Cables	6
15' Portable DMX Cables	4
10' M/F Edison/Edison Jumpers, 12/3 SO	4
Cinelight Baby Pipe Clamp With 16mm Spigot Pin (Install On Pantograph Fixtures)	16
Note: Portable Equipment Schedule Is Spare Porta Cabling Is Intended To Be A Spare Inventory O Owner's Use & For Interfacing Lighting Equipment.	ble Cabling And Al f Cabling For The

The Portable Equipment Shown Are Not All Inclusive & Are In Addition To Those Noted Elsewhere. Provide All Additional Cables As Necessary For A Complete & Fully Functioning Lighting System, Even If Those Cables Do Not Appear On This Or Other Schedules.

M/F - Stands For Male To Female. M/M - Stands For Male To Male. F/F - Stands For Female To Female.

Provide All DMX Style Interface Cables With The Pin Configuration Of The Furnished Fixtures (3 Pin Or 5 Pin). Provide Adapter Cables As Necessary.

Label Each Portable Cable As To Type & Length At Both Ends With Self-laminating Or Clear Heat Shrink Style Labels. All Cables Listed Above Shall Be Provided In Black.

Provide ALL Required Adapters For Fixtures To Accommodate Spigots, C-Clamps, Pantographs, Etc. & Attachment To Grid & Manfrotto Sleds.









PHOTO LAB LOWER LEVEL CONTROL PLAN - AREA '3'

TL310 1/2" = 1'-0"







NOTES:

The Cable Lengths Indicated In The Above Tables Are In Addition To All Required Hookup Cabling For The Initial Focus Plot. This List Is Intended To Be The Owner's Spare Portable Cabling Inventory That Can Be Used To Interface New Fixtures Into The Plot And/Or To Reconfigure/Combine Existing Fixtures Per Future Requirements.

For All Cabling Required For The Initial Fixture Plot Interconnects, Field Verify & Provide All Required Cabling In Order To Mount Fixtures Per Owner's Lighting Plot. Ensure That All Initial Plot Cable Lengths Are Of Sufficient Length For The Indicated Interconnection And Placement Of Devices. If Longer Cable Lengths Are Of Sunicient Reach Device Placements, Then Provide Longer Cables As Needed. All Cabling Should Have Sufficient Length To Reach The Next Indicated Device Without Stretching The Cable, Swagging The Cable Unsupported Through The Air Between Fixtures Or Stressing The Connectors. Typical Cable Dress Should Be From Device, Back Through Fixture Yoke, Neatly Wrapped Along Pipe To Next Device Location, Through Fixture Yoke And Then To The Indicated Device. No Cables Are To Be Stretched From Device To Device Through The Light Output Pattern Of A Fixture Or Across The Path Of Any Other Device. This Note DOES NOT Apply To Any Cables In The Spare Portable Equipment List. Provide Those Types Of Cables In The Lengths Indicated.

Every Portable Cable Shown Or Referenced On The TL Series Drawings Shall Have One 24" Piece Of Samson Black Braided Tie Line/Rip-Tie Hook & Loop Black Velcro (16" Tie Line For Portable Cables Under 8' In Overall Length) Choked Onto One End Approx. 1" From The Connector.

Terminate DMX Runs As Required. This Is To Ensure Constant Voltage Across All Units, To Maintain Data Signal Integrity & Full Fixture Functionality, To Reduce Line Loss And To Provide Data Signal Termination As Required And As Specified By Each Manufacturer. LED Fixtures Shall Only Be Plugged Into Relay Controlled/Non-Dimmed Outlets. DO NOT Plug LED Fixtures Into

Channels That Are Powered Via Dimmer Modules Or Irreparable Damage Could Be Done To The Fixtures. The Physical Fixture Layout Locations Shown On This Drawing Are Not Intended To Be A Final Lighting Plot. The Actual Fixture Plot & Physical Fixture Layout Is TBD By The Owner During The Focus Plot Day(s) And Arranged As Such By The Installing Contractor. Fixtures Shown In Line With Other Fixtures, Even If They Appear Beyond

The End Of A Connector Strip Or Other Related Device, Are Intended To Be Mounted On That Same Batten Or Device Together With The Others Next To Them. Gather All Bundled Cabling Together Every 12" With Black Cord-Lox Style Velcro Closed Loop Series Tie Wraps. Tie Wraps Shall Be Installed Snugly But Not Too Tightly.

The Studio Lighting Fixtures Shall Not Be Installed In This Space Until All Dust Creating Work, Paint Work, Drywall Work, Sanding Work Has Been Completed And All Dust/Debris Has Been Cleaned Up. If Fixtures Must Be Installed Prior To Completion Of This Work Or Cleanup, Then They Must Be Fully Wrapped In Heavy Duty Plastic Bags That Are Taped Shut. Fixtures May Not Be Powered On Or Even Plugged Into Power While Bagged.

Instruct The Owner On The Hazards Of Leaving Studio Fixtures On For Long Periods Of Time While Aimed Directly At Sensitive Items Such As Curtains, Backdrops, Etc. Fixtures Should Only Be On For The Duration Of Shoots, Etc. And Not Aimed At Or Focused On Full For Hours Onto Any Potentially Flammable Items Such As Those Noted Above, Even Though These Items May Have Flame Retardant Characteristics. FIXTURE WARRANTY NOTE:

ANY FIXTURE SUBSTITUTED FOR THE SPECIFIED ETC LED FIXTURES PROVIDED AS PART OF THIS PROJECT SHALL FEATURE THE FOLLOWING WARRANTIES TO MATCH THE SPECIFIED MANUFACTURER'S STANDARD WARRANTY: • 5 YEAR FULL FIXTURE WARRANTY

• 10 YEAR LED ARRAY WARRANTY

KEY TO FIXTURE SYMBOLS:

Symbol	Fixtures	Lamp
	ETC ColorSource Cyc Fixture With Edison Connector. Set Up Each Fixture With Individually Addressed Units In 7-Channel DMX Operating Mode. Provide With All Power & Individual DMX Interconnect Cabling, Hanging Yoke With A C-Clamp & All Other Misc. Hardware Needed In Order To Assemble & Interconnect These Fixtures.	(42) Lumileds Luxeion C LED Emitters - (Included With Fixture)
P2000	Dracast LED 2000 Plus Series Panel Fixture With DMX Control & Edison Connector. Provide 3200K-5600K Bi-Color, Tunable White/Variable CCT With 4-Way Barn Doors, Softbox & Diffusion/CTO Semi-Rigid Filter Packs. Set Up With Individually Addressed Units In XX-Channel DMX Operating Mode. Provide With All Power & Individual Data Interconnect Cabling, Hanging Yoke With A Baby 5/8" Pin Spigot To C-Clamp Adapter & All Other Misc. Hardware Needed In Order To Assemble, Hang & Interconnect These Fixtures. CRI >95. 130W Power Draw.	(2,048) 5 mm LED Bulbs Per Cell (In 32 : 64 Grid Arrangement
F2000	Dracast LED 2000 LED Fresnel Series Panel Fixture With DMX Control & Edison Connector. Provide 3200K-5600K Bi-Color, Tunable White/Variable CCT With 4-Way Barn Doors, Speed Ring For Chimera Softbox & Chimera Softbox. Set Up With Individually Addressed Units In XX-Channel DMX Operating Mode. Provide With All Power & Individual Data Interconnect Cabling, Hanging Yoke With A Baby 5/8" Pin Spigot To C-Clamp Adapter & All Other Misc. Hardware Needed In Order To Assemble, Hang & Interconnect These Fixtures. CRI >95. 200W Power Draw.	(48) Surface Mounted CREE LED Emitters (In 8 x 6 Arrangement)

Note: All Fixtures & Lamps Shall Be 120 Volt Versions.

Provide All Fixtures With Malleable Iron C-Clamp (And Required Adapters), 30" Black Safety Cable With 5/16" Spring Clip And 36" Long Power Cable. Label Each Fixture, Data & Lighting Power Cable As To Type & Length At End With Self-Laminating Or Clear

Heat Shrink Style Labels. All Devices Have Been Located In Approx. Installation Locations; However, Obtain All Final Locations In

Writing From The Owner Or Owner's Representative Prior To Locating Fixtures & Incorporating Into Overall Focus Plot (This Includes Locations For All Previously Removed Fixtures Being Incorporated Into New Focus Plot-None Of These Fixtures Have Been Shown On This Plan. Fixtures Shown Here Are New Fixtures Only). Provide All Fixtures In This Symbols Key With All DMX Addressing & Setup, PowerCon & Network Cables, Etc. As Well As All Tie Lines, Yoke Markings, Etc. Uncrate, Assemble, Burn-In, Address, Group, Hang & Focus All Of These Fixtures Per The Owner's Instructions, Ready For Use. All Accessories, Markings, Etc. Noted Are Required For All Fixtures.

Label Each Fixture Yoke With Fixture Wattage, DMX Address, Etc. In Black Block Lettering On Safety Yellow Gaff Tape Or Other Durable Label.

PROVIDE THE FOLLOWING PORTABLE EQUIPMENT:

Equipment	Quantity
5' Portable Gender-Bender DMX Cables - M/M	2
5' Portable Gender-Bender DMX Cables - F/F	2
5' Portable DMX Cables	18
10' Portable DMX Cables	12
15' Portable DMX Cables	16
10' M/F Edison/Edison Jumpers, 12/3 SO	16
Cinelight Baby Pipe Clamp With 16mm Spigot Pin (Install On Pantograph Fixtures)	16

Note: Portable Equipment Schedule Is Spare Portable Cabling And All Cabling Is Intended To Be A Spare Inventory Of Cabling For The Owner's Use & For Interfacing Lighting Equipment.

The Portable Equipment Shown Are Not All Inclusive & Are In Addition To Those Noted Elsewhere. Provide All Additional Cables As Necessary For A Complete & Fully Functioning Lighting System, Even If Those Cables Do Not Appear On This Or Other Schedules.

M/F - Stands For Male To Female. *M/M - Stands For Male To Male. F/F - Stands For Female To Female.*

Provide All DMX Style Interface Cables With The Pin Configuration Of The Furnished Fixtures (3 Pin Or 5 Pin). Provide Adapter Cables As Necessary.

Label Each Portable Cable As To Type & Length At Both Ends With Self-laminating Or Clear Heat Shrink Style Labels. All Cables Listed Above Shall Be Provided In Black.

Provide ALL Required Adapters For Fixtures To Accommodate Spigots, C-Clamps, Pantographs, Etc. & Attachment To Grid & Manfrotto Sleds.



TL312 ^{1/2" = 1'-0"}





PHOTO LAB HOUSELIGHTING FIXTURE PLAN - AREA '3'

TL313 ^{1/2" = 1'-0"}









Description	RACK	Circuit #	Breaker Size	Terminated To	Via PJB-X/GIJB-X	Running Total Circuit #	Breaker Poles
General Power Circuit	RR-1	1	20 Amp	Control Booth Power Distro Raceway	PJB-1	1	1
General Power Circuit	RR-1	2	20 Amp	Green Room Studio Duplex Outlet	PJB-1	2	1
General Power Circuit	RR-1	3	20 Amp	Green Room Studio Duplex Outlet	PJB-1	3	1
General Power Circuit	RR-1	4	20 Amp	Green Room Studio Duplex Outlet	PJB-1	4	1
On Air Lighting Circuit	RR-1	5	20 Amp	On Air Light Boxes (Daisy Chained)	N/A	5	1
CR Rack Equipment	RR-1	6	20 Amp	CR Rack (MPR Modules)	N/A	6	1
Pipe Grid Electric #4 Connector Strip Circuit	RR-1	7	20 Amp	Green Room Studio CS (Connector Strip)	PJB-2 & GIJB-1	7	1
Pipe Grid Electric #5 Connector Strip Circuit	RR-1	8	20 Amp	Green Room Studio CS	PJB-2 & GIJB-1	8	1
Pipe Grid Electric #3 Connector Strip Circuit	RR-1	9	20 Amp	Green Room Studio CS	PJB-2 & GIJB-1	9	1
Pipe Grid Electric #6 Connector Strip Circuit	RR-1	10	20 Amp	Green Room Studio CS	PJB-2 & GIJB-1	10	1
Pipe Grid Electric #2 Connector Strip Circuit	RR-1	11	20 Amp	Green Room Studio CS	PJB-2 & GIJB-1	11	1
Pipe Grid Electric #7 Connector Strip Circuit	RR-1	12	20 Amp	Green Room Studio CS	PJB-2 & GIJB-1	12	1
Pipe Grid Electric #1 Connector Strip Circuit	RR-1	13	20 Amp	Green Room Studio CS	PJB-2 & GIJB-1	13	1
Pipe Grid Electric #8 Connector Strip Circuit	RR-1	14	20 Amp	Green Room Studio CS	PJB-2 & GIJB-1	14	1
Green Room Studio Houselighting Circuit	RR-1	15	20 Amp	Misc. Green Room Studio Houselighting Fixtures	GIJB-1	15	1
Green Room Studio Control Booth Houselighting Circui	RR-1	16	20 Amp	Misc. Control Booth Houselighting Fixtures	PJB-1	16	1
Photo Lab Power Circuit	RR-1	17	20 Amp	PhotoTech Roll Easy Motorized Backdrop Outlet	PJB-3 & GIJB-2	17	1
Photo Lab Electric #1/2 Connector Strip Circuit	RR-1	18	20 Amp	Photo Lab CS	PJB-3 & GIJB-2	18	1
Photo Lab Electric #1/2 Connector Strip Circuit	RR-1	19	20 Amp	Photo Lab CS	PJB-3 & GIJB-2	19	1
Photo Lab Electric #1/2 Connector Strip Circuit	RR-1	20	20 Amp	Photo Lab CS	PJB-3 & GIJB-2	20	1
Photo Lab Electric #1/2 Connector Strip Circuit	RR-1	21	20 Amp	Photo Lab CS	PJB-3 & GIJB-2	21	1
Photo Lab Power Circuit	RR-1	22	20 Amp	Photo Lab Duplex Outlets	PJB-2	22	1
Photo Lab Houselighting Circuit	RR-1	23	20 Amp	Misc. Photo Lab Houselighting Fixtures	PJB-3	23	1
Spare	RR-1	24	20 Amp	Unlanded	N/A	24	1
Echo Relay Panel Control Electronics	RR-1	25	20 Amp	Echo Panel	N/A	25	1
Audio/AV Circuit	RR-1	26	20 Amp	(See TS Drawings)	N/A	26	1
Audio/AV Circuit	RR-1	27	20 Amp	(See TS Drawings)	N/A	27	1
Audio/AV Circuit	RR-1	28	20 Amp	(See TS Drawings)	N/A	28	1
Audio/AV Circuit	RR-1	29	20 Amp	(See TS Drawings)	N/A	29	1
Audio/AV Circuit	RR-1	30	20 Amp	(See TS Drawings)	N/A	30	1











PUSHBUTTON STATION LABELING & RELATED DETAILS





EACH DETAIL IS REQUIRED FOR EACH SPACE (STUDIO & PHOTO LAB).



TL503 NONE

INSTALL ALL SIGNAGE SO THAT SIGN IS FLAT AGAINST WALL AFTER INSTALLATION AND HAS NO RIPPLES.

> APPROX. MOUNTING HOLE LOCATIONS

1/8" SOLID SAFETY BLACK OUTLINE AROUND -BORDER OF SIGN

> BULLETS ARE TO BE 1/4" DIAMETER -SOLID CIRCLES

1/8" SOLID SAFETY BLACK OUTLINE BOXES AROUND WORD -MESSAGE PANELS OF SIGN

> SIGN IS TO BE MADE FROM .035 " POLYETHYLENE (MIN.)

APPROX. 16 PT. FONT FOR ALL BULLETED/ -NUMBERED TEXT

ALL SAFETY SIGNAGE TO BE ATTACHED WITH TAPCON STYLE SCREWS WITH FLAT WASHERS UNDER HEADS.

DETAILS IN THE STUDIOS: ALL HARDWARE TO BE 3/8" OR 1/2" (AS NOTED) DIAMETER GRADE 5 OR HIGHER (BOLTS, WASHERS, NUTS, ETC.). ALL THREADS MUST BE TREATED WITH VIBRATITE AND USED IN SUCH A WAY AS TO BE VISIBLE UPON INSPECTION. ALL PAINTING SHALL BE PERFORMED IN A PROFESSIONAL MANNER. THIS INCLUDES UTILIZING PROPER PRIMING AND FINISH COATING TECHNIQUES AS REQUIRED AND THE PROPER MASKING OF ADJACENT AREAS. PAINT SHALL BE SPRAY APPLIED WHERE POSSIBLE BEFORE SUSPENSION AND SHALL BE MULTI-COAT AND NEAT. NO DRIPS, RUNS, MOTTLED FINISHES, ETC. SHALL BE ALLOWED. PAINT ALL ATTACHMENT HARDWARE, ETC. FLAT BLACK (IF NOT INHERENTLY FLAT BLACK). NO BRIGHT, SHINY, BARE METAL COLORED OR OTHERWISE CONFLICTING COLORED METAL OR

NOTE FOR ALL SUSPENSION/BRACING/MOUNTING

ALL STRUT SHALL BE UNISTRUT OR EQUAL. NO NON-LOAD RATED CHANNELS SHALL BE ACCEPTABLE VERIFY LOADING REQUIREMENTS, DEFLECTION ITATIONS, ETC. WITH UNISTRUT PUBLISHED TABLES FOR UNIFORM AND POINT LOADING IN DETERMINING ALTERNATE PRODUCT EQUIVALENCY. USE SPRING LOADED UNISTRUT CHANNEL NUTS,

HARDWARE ITEMS SHALL BE ALLOWED.

LOCKNUTS AND HARDWARE WHEN ATTACHING ANY UNISTRUT CHANNEL, BRACKETS OR CLAMPS DIRECTLY TO OTHER UNISTRUT CHANNEL OR OTHER BRACKETS, ITEMS, ETC.

CONDUIT & BOX LABELING DETAILS



SAMPLE RELAY RACK SAFETY SIGNAGE TL503 NONE





A



PENDANT HOUSELIGHTING FIXTURE INSTALLATION DETAIL TL504 ^{3" = 1'-0"}




	Notes			
- DMX 1	Primary Data Link			
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-, inverted) - DMX 2	Optional Secondary Data Link			
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- DMX 1	Primary Data Link			
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mon - DMX 1	Primary Data Link			
/common - DMX 2	Optional Secondary Data Link			
or FTP cables)				







DMX WIRING DRESS DETAIL TL505 NONE

Terminals

CONSTRUCTION DOCUMENTS







CONSOLE & ACCESSORIES DETAILS TL506 ^{3/4" = 1'-0"}



LIGHTING	SYMBOLS KEY:			STUDIO LIGHTING SYSTEM NOTES:
SYMBOL	ITEM DESCRIPTION	BACK BOX	NOTES	Each note and detail indicator indicates a typical location for the type of work to be performed or equipment to be provided. The referenced contractor shall provide for all instance of typical work indicates a typical location for the type of work to be performed or equipment to be provided. The referenced contractor shall provide for all instance of typical work indicates a typical location for the type of work to be performed or equipment to be provided. The referenced contractor shall provide for all instance of typical work indicates a typical location for the type of work to be performed or equipment to be provided. The referenced contractor shall provide for all instance of typical work indicates a typical location for the type of work to be performed or equipment to be provided.
E1002	E1002 - ETC Echo Inspire 2 Button Architectural Control Station	One Gang 3.5" Deep	Mounted In Wall At Standard Switch Height Or As Indicated.	instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; nowever, all notes still apply to the work indicated within each note and all simila instances of typical work shall be performed by the referenced contractor(s).
E1006	E1006 - ETC Echo Inspire 6 Button Architectural Control Station	One Gang 3.5" Deep	Mounted In Wall At Standard Switch Height Or As Indicated.	Perform all work as described below and on each TL series drawing. All work shall conform to the standards of Divisions 19 & 26 as well as this project's architectural & structura standards, the construction schedule, the current National Electric Code (NEC) and all other applicable codes and standards.
DU-X	Connector Strip Mounted DMX Outlets (One For Each DMX Universe - DU-1 = DMX Universe #1, Etc.) Internally Wired/Distributed To Multiple Locations By Manufacturer Inside Each Connector Strip. Typical.	N/A	Mounted In Connector Strip. Each DMX Run Shall Feature (1) ETC DMX Pass Thru Panel With A Separate Single DMX Output Device At The End Of Each Run.	GENERAL: Provide all devices, conduits, junction boxes, backboxes, wiring, etc. that are required to have a specified rating as devices with those ratings and listings per all applicable code This includes CE, UL, ETC, NEMA, plenum ratings, etc.
LJB-X	Lighting Junction Box	12" x 12" x 6" NEMA Box	Mounted At Standard Electrical Outlet Height Or As Indicated.	Provide all portable devices with strain relief/rubber grommets for all power and data cabling entry/exit from box(es). No devices with simple holes cut in them for cable entry/ex and without grommets or other approved strain relief systems shall be allowed. Strain relief shall be painted to match color of box it is mounted to.
	DMX Plug-in Station	One Gang 3.5" Deep	Mounted At Standard Electrical Outlet Height Or As Indicated.	Provide all misc. cabling, jumpers, two-fers, extensions, turn-arounds, adapters, connectors, labor, data cords, etc. in order to provide and interface all fixtures with plugs to matches on the connector strips and outlet boxes included in the design (and any existing related devices), even if those cables are not specifically listed on the contract document.
XX"	Indicates Conduit Size And/Or Wire Runs			Provide all portable and interface cabling with the line and cable type/length marked at each end. Program the architectural control system so that all remotely controllable relay circuits are powered on at 6:00 AM and powered off at 12:00 PM every day (with override to ON
XX	Home Run to Device			someone initiates a preset or control console function at any time during those "off" hours. Stagger the relay power up sequence in order to lessen the overall inrush curren potential to the power system. This will help in extending the effective life of the LED lights by depowering their control electronics circuits for approx. 6 hours every day. Verify will our and all applicable codes whether this about dates apply to the circuits powering the LED houselighting first trace that are being powered from the FLTS2 device. As the circuits approach all applies the test of the codes whether this about a section of the circuits powering the LED houselighting first trace that are being powered from the FLTS2 device. As these methods are being powered from the section of the circuits powering the test of the circuits for approx.
CS DMX	DMX Entry At The End Of The Connector Strip Via An ETC "Top Hat" Style Device. Device Must Have Rubber/Plastic Grommet (Cable Cannot Enter Bare Metal Hole).	N/A	Mounted "Top Hat" On Connector Strip By ETC. Wiring To Be Terminated Inside "Top Hat". No Connectorized Terminations (IE XLR, RJ45, Etc. Shall Be Allowed At The Top Hat.	need to be programmed to be on at all times in order to meet NEC and owner requirements. Set maximum trim for all dimmable LED houselighting fixtures within this project to 80% of total full output (as an initial and not to exceed limit - actual day-to-day settings shall the sentration of the sentr
Ø	Power - Duplex Edison Outlet - (1) 20 Amp, 120 VAC, Single Phase Circuit. See E Series Drawings For Conduit Sizes & Designations	One Gang 3.5" Deep	Mounted At Standard Electrical Outlet Height Or As Indicated.	No dimmable LED houselighting fixtures shall be allowed to exceed 80% of their total full output.
Ø	Power - Single Edison Outlet - (1) 20 Amp, 120 VAC, Single Phase Circuit. See E Series Drawings For	One Gang	Mounted At Standard Electrical Outlet Height Or As Indicated.	Program all nouselighting presets for a minimum ramp up/ramp down time of 5 seconds. All devices shown on the drawings are indicated in approximate locations. Coordinate the exact locations of all devices shown with the owner, existing obstructions and any oth
DD	Conduit Sizes & Designations. DMX Drop/Grid Iron Junction Box - ETC Model 9700 DMX. Configured With One Or Two Data Runs As Needed. There Are To Be No Connectorized Terminations On This Box (XLR, RJ45, Etc.). Only Internal, Pressure Clamp Style Terminations Shall Be Allowed.	N/A	Mounted To Side Of Main Connector Strip Gridiron Junction Box.	All device faceplates shall be from the manufacturer's standard color selections (cream/ivory, white or black - TBD by owner) with contrasting color engraved lettering/numberin unless otherwise noted (such as junction boxes) and as directed by owner/architect. All device faceplates shall be labeled with the nomenclature as indicated on the single line flo diagram. Device types shown on flow diagram and plans shall not be engraved on faceplates (shown on flow diagram in parenthesis - these are for ease of identification only unless specifically indicated as such. Only the nomenclature shown, plus owner selected names as indicated, shall be engraved on faceplates. Obtain any owner selected devic faceplate names in writing prior to ordering or fabrication.
DPB-X	DMX Pull Box - For Lighting Network Feedthrough. There Are To Be No Terminations Within This Box.	8" x 8" x 6" NEMA Box	Mounted To Structural Steel And Positioned To Facilitate Conduit Runs To DMX Drop Boxes.	MISCELLANEOUS:
CR	Communications Rack - For Echo, Lighting Control Distribution, Network Distribution & Power, Blues System Power Supplies, Cable Management, Switch(s), AV Video Server, UPS, Patch Panel(s) & Other Related Equipment. Size Rack for Equipment Specified & Needed To Complete System.		Wall Mounted At 60" AFF To The Center Of The Rack.	All circuits in this lighting system (dimined, relay and/or constant) shall be physically landed in a one-to-one patch from origination to destination. This means that Circuit #X at the dimmer rack must be carried through from there to the JB/GIJB and to the connector strip/outlet box/misc. other destination as the same Circuit #X throughout. Soft patch cannot b used in order to accomplish proper dimmer routing. Where existing wiring is to be reused, the use of inline butt splices and wiring extensions shall be required in order to accomplis a proper 1:1 patch. In the case where there is more than one rack with overlapping numbering schemes (i.e. a dimmer rack and a relay rack), then the numbering shall include prefix in order to differentiate (i.e. Circuit #D1 would be dimmer rack dimmed circuit #1; Circuit #C24 would be constant circuit #24; Circuit #R12 would be relay rack circuit #1: etc.). The prefix "D" is typically dropped for connector strip or outlet box numbering. Coordinate with the theatrical contractor as required for consistency in all numbering schemes.
DMX O	DMX-OUT - DMX Signal Output Plug-in Station	One Gang 3.5" Deep	Mounted To Structural Steel As Indicated.	Program the architectural control system to pass all necessary DMX channels/values in order to pass and control all intended/indicated fixtures in the system (minimum values are - 2048).
CS NET	Network Entry At The End Of The Connector Strip.	N/A	Mounted "Top Hat" On Connector Strip By ETC. Wiring To Be Terminated Inside "Top Hat". No Connectorized Terminations (IE XLR, RJ45, Etc. Shall Be Allowed At The Top Hat.	MODEL NUMBERS: Manufacturer model numbers for products are indicated on drawings to provide a full understanding of the system functional intent. See written specifications and the proje- manual for additional information and requirements for substitutions and procedures.
PJB-X	Power Junction Box - Junction Wiring Inside Box Per Code. Extend Existing To Box & Junction With New As Required.	12" x 12" x 6" NEMA Box	Mounted As Indicated Or Required	STUDIO LIGHTING SYSTEM KEYED NOTES: Each note indicates a typical location for the type of work to be performed or equipment to be provided. The TC shall provide for all instances of typical work indicated. All drawing
ECHO	ECHO - ETC Unison Echo Relay Panel. ERP-24R1- 24B1, 120/208 VAC, Mains Fed Panel With Network, Door, Breakers/Relays, XXX Amp, 120V, 3 Phase Feed. Provide With Ride Thru Option & All Accessories As Required. See Flow Diagram For Complete Details.	Provided By Manufacturer	Wall Mounted At Approx. 60" AFF To The Center Of The Rack (If Possible). Field Coordinate Exact Location With Owner, NEC, ADA Codes, Existing Obstructions, Etc.	SYSTEM SETUP: The lighting system must be fully operational prior to the commencement of any training or acceptance testing/punch list visits. ARCHITECTURAL CONTROLS SETUP:
OAL	On Air Light Location. For The Attachment Of Sandies USA Model #343 Series 115VAC, 3 Sided Studio Warning Light.	One Gang 3.5" Deep	Empty Backbox Mounted As Indicated. Mount OAL Light To Box As Required.	Address & program all pushbutton stations to control fixtures/fixture groups and at predetermined levels as is required by the owner. The owner will have specific day-to-da controls access requirements, fixture access requirements, pushbutton station functionality requirements, timed event and timed access requirements, etc. that must be complete programmed for the owner. Obtain owner sign-offs, in writing, prior to commencement of final programming.
GIJB	ETC Grid Iron Junction Box - Size Each Box For The Number Of Circuits Indicated.	N/A	Mounted To Structural Steel Or As Indicated.	3 Independent to each studio: The intent is for either the control booth lighting control console or that studio's portable lighting control console to be "selectable" from a control standpoint. Once one is selected (either via a physical pushbutton station trigger or a touchscreen trigger) that device shall take over complete control of the studio lighting syste
	ETC Connector Strips (Distribution Series) - Size Each As Indicated On Drawings. Provide Without "Double Height" Termination Box Unless Circuit Count Is Too High For Single Height Strip With Integral Terminations.	N/A	Mounted As Indicated. Provide Connector Strip Brackets As Indicated And In Quantities As Recommended By The Manufacturer.	and the other device shall no longer have input "until it is reselected. In this way there are no "benind the scenes" programming or control sequences or looks taking place that the operator has no control over, etc. When control is selected the system shall switch to a preset state (verify preset state status with owner - all studio fixtures off/worklights on full retain current levels but release control, etc.) This preset state should be discussed in detail with the owner and fully signed off on, in writing, prior to implementing any control system programming. Each fixture in each studio shall be programmed with a fixture name, fixture descriptor, fixture number, graphical representation of the fixture on the portab touchscreen, DMX address and universe assignment (each of these assignments shall be mirrored with labels on each fixture - labels to be large enough to be easily read but als not impede fixture cooling or usage). Corresponding cabling for each fixture shall also be labeled to reflect fixture number, DMX address and universe assignment. Only a graphic

All References To "Standard Electrical Outlet Height" And "Standard Switch Height" Are Intended For The Installing Contractor To Mount These Devices To Match These Mounting Heights With Any Existing Or Adjacent Devices On Site In The Auditorium. Most Backboxes For This Project Are Existing & To Remain; However, For All New Backboxes, Etc. The Following Notes Shall Pertain. All Device Backboxes Shall Be Flush Mounted Unless Otherwise Noted On The Drawings. If Building Construction Makes Flush Mounting

Impossible Or Impractical, Then Obtain Written Permission & Instructions From The Architect (Including Specific Device Types, Conduit/Wiremold Types, Required Painting, Sizes, Profiles, Etc.) Prior To Installing Any Surface Mounted Devices (This Is Excepting Devices Such As GIJB's, JB's, Pull Boxes, Etc. Mounted To Stage Or Other Overhead Steel). Where Boxes Are Indicated As Surface Mounted, Wiremold Style Boxes Shall Be Utilized, Painted To Match Mounting Surface Or As Directed By Architect/Owner. See E Series Drawings For Restrictions, Etc. For Wiremold Boxes, Raceways, Routings, Etc.

No Catwalk Conduits Shall Be Allowed To Run Along, Behind, In Front Of, Etc. Or In Any Way That Will Cause The Pipe Grid Lighting Pipes Or Manfrotto Track System To Be Unusable

All Backboxes Shall Be 3.5" Deep With Internal Square Edges. No Backboxes With Rounded Or Radiused Corners Shall Be Acceptable. Where Mounting Brackets Are Required, Provide Appropriate Brackets As Needed To Mount To Studs, Wall, Etc. No Contractor Fabricated Mounting Systems Shall Be Acceptable. Read All Drawing Notes For More Information On Backbox Styles, Types, Etc. Required.

Provide The Owner With Actual Sized Paper Template Copies Of All New Station Faceplates That Are Part Of This Project, Which The Owner Shall Then Tape On The Walls In The Final Desired Locations For All Architectural Control Stations. Do Not Install Any Related Conduit Or Backboxes Until Final Locations Have Been Determined By The Owner. No Stations Shall Be Allowed To Exist In Areas Or Locations Where They Conflict With Other Devices, Are Buried Behind Other Devices, Block Access To Life-Safety Devices, Are Tucked Into Inaccessible Corners Or Are Otherwise In Impractical, Out-Of-The-Way Locations.

Standard Switch Height Is Typically 48" To The Top Of Box. Standard Outlet Height Is Typically 20" To Top Of Box. Verify All Standard Heights With E Series Drawings/Field Conditions.

HOUSE/WORK LIGHTING SYMBOLS KEY:

REFER TO THE LIGHTING SYMBOLS KEY & REMOVALS NOTES AS WELL AS ALL OTHER KEYS AND NOTES ON TL601/TL602 AND ALL OTHER TL SERIES DRAWINGS FOR MORE INFO ON ADDITIONAL AND RELATED SCOPE OF WORK. REQUIRED COORDINATION. ETC. **REVIEW ALL PORTIONS OF THE 19 2000 SPECIFICATIONS SECTION AS IT CONTAINS A LARGE AMOUNT OF INFORMATION REGARDING** SCOPE OF WORK AS IT RELATES TO THE THEATRICAL, WORK, ACCENT AND HOUSE LIGHTING SYSTEMS.

FIXTURE DESIGNATION	SYMBOL	ITEM DESCRIPTION	BACK BOX	QTY. SPARES	NOTES
HL-1	•	Control Room Houselighting Fixtures - Gotham Incito Architectural LED Downlight: 6" Recessed Can. ICO 30/30-6AR-LSS-55D-120-EDXB-CRI90-SCA (Verify Flange Color With Owner). Fixture Shall Be 3,000° K, 55° Beam Angle, Self-Contained, Remotely Addressable Via RDM Protocol, 90+ CRI, With A 31 Watt Energy Consumption, & An Initial Lumen Rating Of 3,000 Lumens. Dimming Shall Be "Dim To Black" Of Approx. <1%. Dimming Shall Be Via DMX512.	Ceiling Cutout As Required	Provide (3)	Provide All Required Tile Bridges, Spanning Metal, Etc. To Mount In Indicated Locations. Mount Securely Into Ceiling Clouds & Work In Conjunction With The Ceiling Contractor For Appropriate Installation Times. Protect All Fixtures From Dust/Dirt Infiltration. Do Not Modify Any Portion Of Fixtures
HL-2	•	Main Green Room Studio & Photo Lab Houselighting Fixtures - Gotham Incito Architectural LED Downlight: 6" Surface/CeilingMounted Cylinder. ICO CYL 30/60-XXX-55D-120-DMXR-FCM-DBL-CRI90-SCA (Verify Flange Color With Owner). Fixture Shall Be 3,000° K, 55° Beam Angle, Self-Contained, Remotely Addressable Via RDM Protocol, 90+ CRI, With A 99 Watt Energy Consumption, & An Initial Lumen Rating Of 6,000 Lumens. Dimming Shall Be "Dim To Black" Of Approx. <1%. Dimming Shall Be Via DMX512. Mounted To	N/A	Provide (10)	In Order To Make Them Fit Installation Locations, Especially If Obstructions Exist. Cylinder Fixtures Must Each Be Installed To Roof Deck/JB With Black Power/Control Conduit Routed Neatly. All Safety Cables Must Be Black Wire Rope & Routed As Required.
ACC-L-1		Ceiling/Deck. Control Room Desk Work (Task) Lighting - Acolyte LED Ribbon Strip RGBW Lighting Fixture: Part # RB-XX-12-4.4-RGB30 Fixture With Both RGB & 3,000°K LED's, An Initial 160° Beam Angle, Remotely Dimmable Via DMX Protocol, 80+ CRI, With A 4.4 Watt Per LF Energy Consumption, & An Initial Lumen Rating Of 286 Lumens/LF. Dimming Shall Be Via DMX512. Provide With End Feed, Jumper Cables, Back Feed, AS20G Aluminum Channel, End Caps W-W/O Holes, Grazer Lens, Back Feed, Tiltable Stands & DMXINFLCD4 12 Volt Output LED Drivers (Per Control Booth).	Provide JB's As Required Per Location, Type, Etc.	Provide (20%) Fixture Length; (4) Power Supplies; (4) DMX Decoders	Mount LED Ribbons Inside Indicated Channel. Mount Channel On Finished Ceiling With Tiltable Stands & Aim Light Towards Countertop Per The Owner's Instructions. Mount All Strips/Channels For Clean Aesthetic Installation. Remote All Power Supplies/Drivers In CR Rack Or As Required (Concealed). Provide An Additional (4) Fixture Sections, Fully Burned In, Re-Boxed & Stored For Future Use As Replacements. Provide All Required Above Ceiling Blocking, Etc. As Required.

Home Run to Device

House/Work Lighting System Symbols Key Notes (Notes Apply To All Lighting Symbols Keys - Other Symbols Keys May Contain Related Required Devices):

Provide Each House & Work Lighting Fixture With An Approx. 12" Service Loop Of Data Cabling. Manage In Such A Way As To Be Unobtrusive & Unseen From Below For All Pendant Fixtures. Neatly Coil In Loose Arc/Circle & Tie Up. Do Not Put Undue Stress On Cabling. All Device Locations Shall Be Coordinated With Other Ceiling, HVAC, ETR Devices, Speakers & Other Obstructions. Shift Houselighting Fixture Installation Locations Incrementally & Symmetrically In Order To Fit With Required Clearances. Maintain Even Light Output At Reading Surface Level Throughout.

Provide Each House & Work Fixture With A Safety Cable To Overhead Steel As Required Per NEC/ASTM (Black Cable For All Exposed Pendant Style Fixtures). All Required Fixture Safety Cabling Must Be New & Routed Directly (Vertically) To Overhead Structural Steel Members. Safety Cables Must Be Load & With Proper Attachments To Overhead Steel. Provide All Required Spanning Members & Misc. Hardware As Required For Proper Supports. Safety Cables Cannot Be Routed Inside Of Any Stem/Conduit. Route All Data Cabling To Pendant Fixtures With Black Velcro Cinch Straps Every 12". Do Not Overtighten. All Data Cable Drops To Pendant Fixtures Must Be Black Jacketed Tactical Style Data Cabling. Any Connectors Used Must Be Black Or Hidden From View From Below.

All Pendant Style Mounted Fixtures Shall Be Provided With Housing Color As Determined In Writing By The Architect/Owner. Typically Studio Housings Shall Be Flat Black. All Conduit, Wiring, Installation And Installation Hardware Related To The House & Work Lighting Systems Shall Be Provided With All Required Misc. Spanning Metal/Unistrut Necessary In Order To Span Where Structural

Steel Does Not Exist So That Fixtures Can Be Mounted In The Locations Indicated On The Drawings. All Hardware And Misc. Spanning Metal/Unistrut Used For The Installation Of Fixtures Shall Be Load Rated And The Mounting Method Must Be Approved By The Project Structural Engineer. Paint All Related Mounting Hardware Flat Black (Or Color As Determined By The Architect/Owner In Architecturally Sensitive Areas). All Color Obtained In Writing From Authorized Personnel. Paint All Pendant Style Fixture Mounting/Suspension Hardware To Match Existing Structure (Or Black) & As Determined By The Architect/Owner. Verify Color In Writing Prior To Install All Recessed Houselight Fixtures Are To Have A 100% Light Blocking Metal Trim Ring & One-Piece Reflector. Trim/Goof Ring Colors Shall Be Provided In A Color TBD By The Architect/Owner, Even If Custom Colors Are

Required. No Visible Gaps Shall Be Allowed Between Fixture Trim/Goof Rings & Ceiling Openings. Only Manufacturer Furnished Trim/Goof Rings Shall Be Allowed. All Trim/Goof Ring Painting Must Be Spray Applied & Performed Professionally. All Related Spare Fixtures Parts Must Also Be Painted To Match. Manufacturer Provided Finishes, If Available, Shall Be Provided As Required. DMX/RDM Address Each New LED House & Work Lighting Fixture & Properly Setup (Except Hard DMX Addressing). Any Houselighting Fixtures That Require "Hard" DMX/0-10V (Control) Addressing (Parameters That Must Be Manually Entered On The Fixture Itself As Opposed To Remote Addressing) Must Be Set Prior To Installation. Terminate The Entire Houselighting Low-Voltage Control Cabling System As Required For Proper Functionality & Remote Addressing Of The Entire System. All Fixtures And Lamps Shall Be 120 Volt Versions

All Device Locations Shall Be Coordinated With Other Ceiling, HVAC, Plumbing, Unistrut Mounted Devices & All Applicable Details. The Houselighting Fixtures' Locations Shall Be As Noted Here And Shall Take Precedence Over The Exact Locations Of All Other Devices. Shift Other Devices Incrementally & Symmetrically In Order To Fit.

PROVIDE A FULL (1) ONE YEAR REPLACEMENT WARRANTY ON ALL LED HOUSE/WORK LIGHTING FIXTURES/DRIVERS. THIS WARRANTY SHALL COVER ALL MATERIALS, ACCESS EQUIPMENT, PROGRAMMING (INCLUDING ANY SPECIALIZED THEATRICAL CONTRACTOR/MANUFACTURER ASSISTANCE) AND INSTALLATION LABOR COSTS ASSOCIATED WITH ANY FAILURE IN THE HOUSELIGHTING LED FIXTURES -SPECIFICALLY THE RECESSED CAN LED'S. ANY FIXTURES THAT FAIL IN THE FIRST 365 DAYS (AFTER OFFICIAL TURNOVER OF THE ROOM - POST ACCEPTANCE TESTS AND COMPLETED PUNCH LIST ITEMS) SHALL BE REPLACED BY THE EC AT NO ADDITIONAL COST TO THE OWNER.

Provide All Wiring Harnesses, Wire Whips, Breakouts, Cable/Signal Distribution, Etc. As Is Required In Order To Daisy Chain The DMX/RDM Feeds Tagged Along From Fixture To Fixture As Indicated. All LED House & Work Lighting Fixtures Shall Be Provided With The Latest Working Firmware/Software Updates Having Been Downloaded Into Every Fixture (Including Spares). Provide All Required Factory Personnel & Programming

Completely Clean All Fixture Reflectors Of All Dirt, Dust, Debris And Fingerprints Prior To The Completion Of The Project. This Should Be Performed After All Dirt And Dust Creating Work And All Room Painting Has Been Completed. Protect Reflectors, LED Arrays, Etc. From Damage Or Overpainting During Construction.

Protect All Fixtures, LED Arrays, Reflectors, Etc. From All Paint, Dust, Dirt, Debris Or Other Construction Damage During Entire Installation Period. Remove All Protective Films, Etc. Prior To Turning Room Over To Owner. The Installing Contractor Shall Be Solely Responsible For Any Damage To Fixtures, Overpainting, Etc. That Alters It From Brand New Condition, Even If That Requires Complete Replacements.

LIGHTING SYSTEM NOTES:

ECTURAL CONTROLS SETUP:

every night.

int. Once one is selected (either via a physical pushbutton station trigger or a touchscreen trigger) that device shall take over complete control of the studio lighting system other device shall no longer have "input" until it is reselected. In this way there are no "behind the scenes" programming or control sequences or looks taking place that the r has no control over, etc. When control is selected the system shall switch to a preset state (verify preset state status with owner - all studio fixtures off/worklights on full, urrent levels but release control, etc.) This preset state should be discussed in detail with the owner and fully signed off on, in writing, prior to implementing any control programming. Each fixture in each studio shall be programmed with a fixture name, fixture descriptor, fixture number, graphical representation of the fixture on the portable reen, DMX address and universe assignment (each of these assignments shall be mirrored with labels on each fixture - labels to be large enough to be easily read but also ede fixture cooling or usage). Corresponding cabling for each fixture shall also be labeled to reflect fixture number, DMX address and universe assignment. Only a graphical representation of each fixture along with its fixture descriptor shall be required on the touchscreen (all other info shall remain "hidden" from view) along with the other controls indicated on the details sheets. If factory fixture name & descriptor are in a large and bold enough font on each fixture, then these can be used for the fixture name & descriptor (there is no need to duplicate this with additional, redundant labeling). For instance, the ARRI font sizes appear to be of adequate size to satisfy the intents and for easy viewing stance. Group fixtures, by type, on the touchscreens for control. The system shall default/reset back to control booth console control at midnight (12:00 am)

All portable cases shall be set up, custom foam cutouts complete and neat, all devices & accessories stored and marked. Provide laminated list on top of each case that details the case's contents. Mark each case for the owner, as directed, with nomenclature as to ownership, etc.

Provide custom signage for the relay rack location as indicated. Provide all nomenclature indicated plus additional as applicable. Mount signage on an adjacent wall near the relay rack as space allows.

Unpack, set up, address & program all LED fixtures, set fan speeds to studio/quiet mode (or other levels as indicated), set colors, create/program/assign color pickers, create and assign devices in smart template or magic sheet style files, arrange touchscreens (on screen windows and physical layout) per owner's wishes, plug-in power/data cabling, daisy chain as required, manage all related cabling, label fixtures as indicated, provide all tie-line cordage (cut and properly installed), assign fixtures into groups, sub-groups, faders, presets, architectural controls, touchscreens, browsers, smart devices and related apps, etc. and at predetermined levels as is required by the owner. Provide an owner-directed focus per spec requirements. Program all DMX and gateway assignments and terminate all DMX runs with terminators per spec. Provide a fully complete lighting package, fully set up and ready to use.

PORTABLE STUDIO CONSOLE:

Provide the portable lighting control console & monitor with the cart and all accessories as indicated. Provide with a 35' long, black power and control cabling bundle for portable use around the studio/photo lab floor areas. Neatly bundle the power and control cables together with black Velcro style straps every 12" along the entire length of the umbilical. All portable cabling used for the interfaces shall be highly flexible, round, black jacketed cabling. Provide all portable cabling and accessories storage containers, labeling, etc. as indicated. Provide, label and package all portable cabling into the indicated tote/storage container

system. Cabling shall be stored by type into different tote sizes as indicated on detail drawings. Remove all shipping wire ties, packaging, etc. and furnish all cables with required tie line, etc. as indicated. See details for complete info.

Label all lighting system equipment with nomenclatures as indicated on these drawings. This includes, but is not limited to, architectural control system components, gateways, racks, fixtures, internal rack wiring, low voltage control wiring, patch panel legend(s), etc.

ELECTRICAL RELATED NOTES FOR THE STUDIO LIGHTING SYSTEM: Each note and detail indicator indicates a typical location for the type of work to be performed or equipment to be provided. The referenced contractor shall provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; however, all notes still apply to the work indicated within each note and all similar instances of typical work shall be performed by the referenced contractor(s).

architectural & structural standards, the construction schedule, the current National Electric Code (NEC) and all other applicable codes and standards. REFER TO THE 19 2000 SPECIFICATIONS SECTION AND ALL OTHER TL SERIES DRAWING NOTES. KEYS. SCHEDULES. ETC. AS THEY CONTAIN ADDITIONAL INFORMATION REGARDING THE EC'S SCOPE OF WORK AS IT RELATES TO THE THEATRICAL LIGHTING SYSTEM. **PROFESSIONAL STANDARDS:**

codes. If any work required exceeds the skills of the contractor, then he shall employ appropriate subcontractors for the scope required. The acceptability of materials and workmanship shall be determined by the Architect, Consultant and CM. Any work that might be damaged, inadvertently painted or become dirty during construction will be protected by the contractor. All responsibility for protection shall be by the contractor. The contractor shall provide final cleaning and or repair of all equipment in their scope to like new condition. The contractor shall attend and/or arrange meetings as required to ensure their scope is coordinated with all other trades. The contractor is responsible

to make known to all other trades critically dimensioned items and locations to avoid conflicts. Where conflicts occur, follow required procedures in the project manual to seek resolution Where any substandard work is provided by related trades that impedes the work of the contractor, he shall notify the CM, Consultant, Architect or Engineer in writing as called for in the project manual to rectify the issue.

Where work is provided by others, the contractor is responsible to verify installation conditions that relate to his work. If installation of related work is substandard, then the contractor shall generate a written RFI through proper channels based upon the project manual. The contractor shall not install his work to any substandard devices, etc. provided by others until such work has been resolved or until the contractor has received written authorization from the construction manager to proceed. If the contractor ignores substandard installation work by others and proceeds to install his devices to these items, B then he accepts and bears sole responsibility to repair, reinstall and correct any found deficiencies to the satisfaction of the owner upon final inspections. The contractor shall comply with the AHJ (Authority having jurisdiction) as it relates to programming any and all emergency interfaces.

following procedures detailed in the project manual.

BOXES, CONDUIT & WIRE:

All work must comply with applicable codes, NEC and NYSED requirements. components

quantity of grounds). Multiple single circuit SO style cables bundled together shall not be allowed.

outlet devices and some devices may be approved equivalents.

indicated and must be determined by the contractor prior to rough-in.

Coordinate final locations with existing obstructions.

Nount and locate all indicated equipment per NEC regardless of the visual depiction locations shown on the contract drawings. If a device must have NEC driven clearances, etc. and this precludes mounting the device in or near the indicated location, then locate the device where it needs to be in order to meet NEC

Any junction boxes that may be needed for conduit/wiring runs in the catwalk, side galleries or on stage shall not be located in inaccessible or buried locations. Conduits shall be located at 7' - 0" AFF on catwalk and side galleries or higher and may not be mounted on any lighting pipe batten, in between lighting pipe positions or any other way that violates any notes or visual depictions shown on the contract documents. Do not encroach catwalk walking area with conduits or loose wiring.

Provide all wiring run in conduit unless specifically noted on these drawings as otherwise. No conduit shall be allowed to be loaded beyond 50% fill. Provide all devices, conduits, junction boxes, backboxes, wiring, etc. that are required to have a specified rating as devices with those ratings and listings per all applicable codes. This includes CE, UL, ETC, NEMA, plenum ratings, etc.

dangling out the end shall be allowed.

Refer to all lighting related notes, drawing arrow notes and written specifications for work clarification and additional scope of work as it regards assembly, installation labor, labeling requirements and/or coordination with theatrical trades. Labeling requirements outlined in the written specifications are extensive and detailed.

Any wiring splices necessary must utilize butt style inline insulated splices crimped with a properly adjusted controlled cycle termination tool. Referenced product Panduit BSV10X-D or equal. Size splices per gauges of wiring to be spliced & provide as required. No incorrectly sized splices shall be allowed. Labeling: All conduits shall be clearly labeled on each end as to their origin and destination in a simple, logical manner. All junction boxes, switch boxes and backboxes indicated on drawings shall be labeled with the nomenclature indicated on the drawings. All outlet boxes shall be labeled with the corresponding panel and circuit designations they are fed from. Permanent black marker on conduit or junction box face is acceptable on conduits. junction boxes, etc. that will not be painted. If any related devices are to be painted, then provide the following: Conduits shall be labeled with 3M Durable D Labels with permanent adhesive (applied after painting). Junction boxes, etc. shall be labeled with 3M Durable ID Labels with permanent adhesive (except stage devices, which shall be labeled with Lamacoid style engraved labels, permanently adhered to the device). All junction boxes, outlets, etc. shall also be labeled on the back of each cover plate and also with a durable tag inside each box stating the same information. All labeling shall be done with block style lettering/numbering by hand or printed. All labeling shall reference the device's designation, conduit originations/destinations, etc. & not

be a coded, indexed or legend style referencing system. Provide blank cover plates for any switch box or junction box that does not have a specific device plate indicated on the drawings symbols keys. All cover plates shall be provided in a color and style that matches other cover plates in the immediate vicinity of the indicated device or as determined by the owner. Cover plates shall be "form fitting" and shall not have sharp edges that protrude out past edges of backboxes. All conduits shall be concealed unless specifically called out on drawings as exposed. Any visible conduits and boxes are to conform to general contract

requirements and Division 26 for finish and installation requirements. Back-to-back outlets in common or acoustical walls shall not be permitted. All outlet boxes shall be separated by at least one stud bay/cavity. Putty pads must be installed in all backboxes. See architectural drawings/specs for putty pad requirements and installation methods.

FLEXIBLE CABLE DROPS:

Flexible cable supports and strain reliefs shall be as follows: Cable entry into raceways, grid iron or other junction boxes (such as for SO type flexible wiring) shall be Hubbell Kellems grips for strain relief, Deluxe liquid tight cable grips (07401 series). Where multiple cables are bundled together provide a separate kellems for each cable entry and start bundling the cable far enough down the run to avoid conflicts of grips. Cable support (such as overhead or auxiliary support for SO type flexible wiring, power cabling, control wire, etc.) shall be Hubbell Kellems grips for cable support (02206 series) heavy-duty, single eye, double weave grips. Note that both styles of grips MUST be installed over the blunt cut end of the wiring, so coordinate installation of grips with termination of related cabling.

Flexible cables shall be sized to allow proper swag to the rigging system. Coordinate exact length with the rigging system and related set movement/travel and related trades. Do not purchase, install or terminate any flexible cable drops until the length is determined. Flexible control cable drops for connector strips shall be provided by the contractor. Where these attach to connector strips/outlet boxes (DMX or network distribution) they will need to be bundled with the SO multi-cable. Provide all flexible control cable drops as black jacketed TMB ProPlex or SSRC

AES/EBU DMX/DATA style stranded network wiring down to connector strip(s). Solid core wiring is not allowed for flexible data drop cabling. All circuits are required to have separate hot and neutral conductors. Provide ground wiring as required by applicable code. All circuits shall be calculated for full rated loads, constant-duty, non-diversity, unless otherwise indicated. Size wire gauges and conduit to allow for full load operation after taking into account all derating for distance, voltage drop and other conditions required by the NEC, the New York State building codes and any applicable local Provide all low voltage control cabling pulled in and out of conduit as indicated on drawings. Do not pull any wire until submittals and lighting shop

drawings have been approved & issued. Verify all wire types, quantities and routing with the approved submittal shop drawings. Where low voltage wire is indicated on the drawings, either in conduit or in walls, ceilings or chases, this wire shall be provided with at least 3' excess wire at each end unless otherwise indicated on the drawings. Secure ends of all pulled wire to prevent accidental removal or damage during construction. Label all low voltage cables as to their origin and destination and tuck into back boxes to protect from damage and until final termination by the factory technician. Coordinate availability on site when the wiring is to be terminated to assist with any problems encountered by the factory technician. Provide

continuous pull strings in all conduits even after all indicated wire is pulled. Where conduit is indicated with no wire called out on the drawings, provide the conduit with a pull string. Provide continuous pull strings in all conduits, tied off at both ends, even after wire has been pulled. Wire must be able to be pulled through the conduits without exceeding the pull spec of the specified wiring. Typical pulling tension for cables of this type is between 35 and 50 lbs. tension.

In some areas wiring may be called out as CL3 not in conduit. In these areas provide adequate attachment and support to protect the cable from potential damage using the best routing. Wiring may not be left lying loose in any area unless fully protected (i.e. Inside a wall). Install all Category 5 or higher cabling noted on these drawings in accordance with all applicable ANSI/TIA/EIA standards and recommended practices as it relates to cable run lengths, cable pull tension, minimum bend radii, etc. Any damaged or non-functional cabling installed and found to be defective shall be completely replaced the installing contractor's own cost. Radius all conduits where possible. Conduit runs are not to exceed 180 degrees of radius bend. Where elbows and pull boxes are unavoidable, locate

these in easily accessible locations not requiring special equipment to reach. Any elbows used must be sweeps and must be accessible without the use of special equipment. If more than 180 degrees of bend is required, Provide accessible pull boxes. Provide as-built drawings that clearly indicate the exact locations of all pull boxes with dimensions, conduit routing paths with dimensions and all junction/termination boxes. Provide all power circuits indicated on TL, TR, and TS drawings and associated conduit, backboxes, wire, termination and duplex outlets. Termination of these outlets will be to panel boards as indicated on E-series drawings. These outlets may also be indicated on E series drawings. Check TL and E

drawings and verify there is no duplication of devices. Some outlets are to be installed in racks - coordinate with the theatrical contractor for exact locations within each rack. INSTALLATION OF EQUIPMENT:

Provide acoustic caulk infilling and professional finishing on both sides of ALL Studio walls, floors & ceilings or any that is shared with the control booth or related ancillary spaces that has been penetrated by lighting system related conduit, raceway or wiring. All attachment methods for equipment to conform to Division 26 and Division 19 specifications. ACCEPTANCE TESTING

Prior to system turn on, perform all manufacturer required procedures for Field Service Technician arrival and system energization including, but not s & secure mounting, dimmer rack air gap sealing, branch & load circuit terminations complete control wiring runs match manufacturer shop drawings, etc. Have a representative on sight during final system test to provide assistance with any line or load wiring problems encountered.

NOTE: personally. This will require each contractor to carefully coordinate drop-ship delivery dates with the manufacturers and trucking companies in order to have adequate personnel on site to inspect, unload and store all shipments. Each contractor shall be responsible to arrange for storage of all received materials on site until the appropriate time when he shall either turn them over to installing contractor or install them If the contractor chooses to allow a third party to receive shipments on his behalf, then that contractor bears sole responsibility for any missing and/or damaged parts and devices that may need to be reordered or rush freight required to maintain schedule, all at no additional Any equipment that is furnished by the receiving contractor but installed by others shall be turned over to the installing contractor at such Any large items such as racks, emergency transfer equipment, etc. shall be transported by the receiving contractor from its storage area and relocated to the general vicinity (i.e. in the room and general area) where it will be installed. At this point in time it shall be turned over to the

It is each contractor's responsibility to receive all device shipments, equipment, deliveries, etc. for their own equipment on/at the job site cost to the owner. time as it fits into their production schedule and the project's overall construction schedule.

installing contractor for installation.

Perform all work as described below and on each TL series drawing. All work shall conform to the standards of Divisions 19 & 26 as well as this project's

The contractor is expected to install all work to the appropriate industry professional standards, manufacturer recommendations and current applicable

The contractor is expected to possess knowledge of the equipment of his industry and to provide all small items required to install the specified equipment. Provide all small items such as rack rails, DIN rails, rack panels, power cords, connectors, wall-wart power supplies, crimps, nicopress and other items that may not be specifically called out on the drawings or in the specs but are required to support primary equipment. When in doubt about any aspect of the work, the contractor should not proceed until he obtains clarification from the appropriate entity with authority

No conduits and/or wiring shall be allowed to be routed in, around or in such a way as to restrict or obstruct the movement of any rigging system Connector strip electrical wiring shall be SO/SJOW/SOOW (or similar equivalent rating as required per NEC and installation location) multi-conductor cabling. Utilize as few multi-conductor cables as is required in order to support the indicated circuits (including individual hots, neutrals and NEC required

Verify exact wiring details, conduit/wire routing paths, etc. with approved factory shop drawing submittals for technical, performance and theatrical systems prior to roughing in any power, conduit or wiring for devices. Some devices have internal lugs, some may require external or additional boxes or

Coordinate the exact locations of all devices with the lighting, rigging, A/V and other theatrical/technical systems clearance requirements, etc. in planning out conduit & cabling paths/lengths. The conduits shown on the drawings are understood to indicate the conduit types, sizes and wiring required only. The exact conduit routing paths and quantities of couplers, elbows, LB's, JB's, misc. pull boxes, support hardware, etc. that are required have not been

Architectural controls & misc. system interface/power boxes: Devices have been shown in suggested yet diagrammatic locations on these drawings; nowever, it is the intent that the owner choose all final actual locations of all devices. Obtain owner sign-offs for all device placements prior to rough-in.

Terminate all conduits into racks, junction boxes, pull-boxes or other appropriate devices as indicated. No cut off conduits with end bushings and wiring

Fire stop all penetrations in fire rated assemblies resulting from the work of this contract.

ELECTRICAL RELATED KEYED NOTES FOR THE STUDIO LIGHTING SYSTEM:

Each note indicates a typical location for the type of work to be performed or equipment to be provided. Provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; however, all notes still apply to the work indicated within each note and shall be performed by the referenced contractor(s). > Branch circuits indicated are for the dedicated use of the specified system. No other connections may be made or branches added to these

circuits. Each circuit must have a separate hot, neutral, and ground conductor. Conduit grounds are not acceptable for these circuits. All wire to be THHN stranded with gauge as required by NEC. All grounds to be #10 minimum THHN stranded copper. Where ISO ground panels are provided the THHN ground wire shall be utilized for the ISO ground. Building ground to switch boxes on ISO ground circuits as required by NEC. Neutrals and grounds may not be shared with any other circuits. The branch circuits indicated are to be installed as indicated. Coordinate with the appropriate contractor where connections are to be made

within racks and equipment furnished by others to provide well timed construction progress. See E series drawings for feeder panel designations and origination. Do not duplicate circuits.

All indicated circuits shall be individual, independent, home-run circuits to a panel/breaker box as indicated on the E series drawings (unless otherwise noted or indicated as being paralleled with another). Provide circuits in voltage, wattage, phase and amperage and land/terminate each circuit into a backbox or other device as indicated.

All circuits in this lighting system (dimmed, relay and/or constant) shall be physically landed in a one-to-one patch from origination to destination. This means that Circuit #X at the dimmer rack must be carried through from there to the JB/GIJB and to the connector strip/outlet box/misc. other destination as the same Circuit #X throughout. Soft patch cannot be used in order to accomplish proper dimmer routing. Where existing wiring is to be reused, the use of inline butt splices and wiring extensions shall be required in order to accomplish a proper 1:1 patch. In the case where there is more than one rack with overlapping numbering schemes (i.e. a dimmer rack and a relay rack), then the numbering shall include a prefix in order to differentiate (i.e. Circuit #D1 would be dimmer rack dimmed circuit #1; Circuit #C24 would be constant circuit #24; Circuit #R12 would be relay rack circuit #12; etc.). The prefix "D" is typically dropped for connector strip or outlet box numbering. Coordinate with the theatrical contractor as required for consistency in all numbering schemes.

Locate the Green Room Studio/Photo Lab gridiron junction and DMX drop boxes in such a way that the flexible SO and DMX cables dress λ neatly, in line with and/or through the SSRC cable tray system the connector strip set pipe battens and so that they will not interfere with adjacent devices, etc. during normal system operation. Attach securely to overhead structure as indicated. Coordinate cable dress, box orientation and drop requirements as required. Conduit entrance locations to GIJB's cannot interfere with SO cable exit locations. **HOUSE/WORK LIGHTING SYSTEMS:**

PROVISION OF FIXTURES - Provide all house/work lighting fixtures and all required/indicated supplementary hardware, supports, etc. Protect from dirt and dust until final cleaning in the space has been performed. Protect from overspray & painting. HOUSELIGHT TESTING & FINAL ACCEPTANCE - The entire house, accent and work lighting system shall be set up and burned in at full for a full 30 days (24/7 and without interruption) after all dirt and dust creating work and all appropriate cleanups have been completed (fixtures shall remain with protective dust coverings until this time). Upon completion of this burn in, the contractor shall visually inspect every houselight location in order to gauge performance and lamp/fixture acceptability. All houselight fixtures that exhibit abnormal behaviors or any fixtures that display inconsistent visual or measurable anomalies (any behaviors or outputs that deviate from the "group" norm or from the manufacturer's stated parameters - i.e. lower light output than other fixtures, changes in light output pattern, strobing, ghosting, popcorning, flickering, fading, overheating, etc.) shall be deemed as faulty fixtures and shall be replaced by the contractor. Fully wipe clean with a new, lint-free, damp cloth

each fixture's related LED array and the interior of the reflector cone prior to final acceptance. MISCELLANEOUS:

Refer to the E Series drawings for power conduit sizes and wire gauge/type designations and requirements as well as for panel and circuit designations In addition to the scope of work described above, review all notes on TL, TR and TS series drawings as well as spec sections 191000, 192000 and 193000 for any additional information on the scope of work and coordination labor to be provided due to related work by others. Provide all backboxes in sizes as indicated. No multi-gang backboxes with raised, tile ring, extension ring or mud ring style reducers to obtain the specified faceplate gang size shall be acceptable in lieu of the indicated device backbox. Install all backboxes flush, plumb and level. Provide all surface mounted outlet boxes as full-sized backboxes so that the cover/face plates do not protrude beyond the box edges. All outlet

boxes to be Thomas & Betts AFS style boxes or equivalent size/style. The intent is for the faceplate to be the same size as the backbox in order to prevent sharp or protruding edges that could catch or snag clothing, etc. or cause injury. Extend all existing houselighting wiring from its existing feed locations as needed to reach the new dimmer rack locations. All extensions shall be performed per NEC code, including raceways or junction boxes as needed.

Provide all swagged, cable tray mounted, portable, visible DMX/Network cable as SSRC AES/EBU-DMX 110 Ohm, 2 Pair, Flexible Black DMX/ethernet tactical style flexible cable with no connectors. No other colors for outer jacket shall be acceptable. Provide only flexible cable. All connectors required shall be Neutrik XLR style connectors, unless otherwise noted or required. All locations & clearances shown for the dimming system & other related devices are specific & critical and may not be altered in the field

without obtaining prior written permission from the consultant. Any new proposed locations or field obstructions must be communicated to the consultant in writing and clearly indicated on scaled plan drawings for approval prior to rough-in. All conduit, connectors, backboxes, Unistrut channel, GIJB's, worklighting fixtures, EM fixtures (except fixture lens & reflector), junction boxes, houselighting fixture mounts/supports and all related hardware, etc. mounted in the studio or photo lab ceiling spaces or areas that are not inherently black in color shall be provided/painted flat black. All items shall be properly primed prior to final painting so that the black paint adheres to the surface and does not easily scratch off. All flexible wiring out of conduit must be inherently black jacketed cabling. MODEL NUMBERS:

Manufacturer model numbers for products are indicated on drawings to provide a full understanding of the system functional intent. See written specifications and the project manual for additional information and requirements for substitutions and procedures. **QUOTATION NUMBERS:**

Manufacturer reference quotation numbers given for any piece of equipment or assembly have been provided for convenience in obtaining bid prices. The quotation reference number does not guarantee exact final dimensions, accessories, fit and finish, or changes that might be implemented via addendum or change orders. The successful contractor is solely responsible for verifying any product purchased for this project meets the performance requirements, finish, fit, and all other required performance factors regardless of any factory quote number

☐ CATEGORY WIRING & TERMINATIONS:

For all DMX, network, category, 0-10V, control and data style cabling: Restrict all conduit and wiring runs to less than 250' - 0" (as a general rule and as measured along the resulting wire path from device origination point to device destination point). Pull, terminate, test and certify all category wiring pulls prior to system turnover to other related trades. Provide a full, written report to the architect, CM, consultant and all related trades that verifies a complete and certified network of cabling. Testing shall be performed using current

industry standards and equipment (Fluke, Meterk, Klein Or Equal) as well as all required methodologies, reporting and documentation procedures, etc. Any wiring anomalies shall be corrected by the installing contractor prior to turnover of this system to related trades. Only a fully certified system shall be allowed to be turned over to a related trade or to the owner. All category terminations must be performed with IDC (insulation displacement connectors) style connector devices. Standard category wiring shall not be allowed for portable or swagged drops along SO cables (for these, only SO style flexible black-jacketed, heavy duty category cabling such as SSRC, CBI, Gepco or TMB Proplex data cabling shall be allowed).

SO FLEXIBLE MULTI-CABLE STUDIO ELECTRIC POWER DROPS:

The SO multi-cables and related internal conductors between the GIJB boxes and related connector strips shall be sized at 10AWG and shall meet the following conditions: . There must be fewer than (13) single phase circuits with 20A circuit breakers in each SO multi-cable. 2. The SO multi-cables must be provided as 90 C rated cables.

3. Individual hot & neutral per circuit; quantity of grounds per NEC. All SO multi-cables must meet the requirements of NEC table 520.44.

C ACOUSTIC ISOLATION PENETRATIONS & WALL PANELS:

Maintain ALL acoustic isolation characteristics, etc. when penetrating or routing ANY conduits, cabling, wire, raceways, etc. through any acoustic wall/assemblies. The contractor shall be solely responsible to seal around all conduits that penetrate or pass through any acoustic walls, etc. in order to maintain their STC ratings. This will include working closely with all related trades as well as sealing all penetrations in the proper sequential order during wall constructions, etc. in order to properly seal as required. The contractor shall be responsible to correct, at his own expense, any acoustic assembly STC deficiencies that result from his work. Use only acoustic caulking or other approved acoustic sealants. All seals must be neat, clean and complete.

Any devices mounted in areas with acoustical panels installed on the wall shall be provided as follows: Flush mount backbox into wall as standard. Carefully mark and cut acoustical wall panels, X cut face fabric and cut/remove glass fiber board (follow manufacturer's instructions carefully so as to maintain fabric wrap and aesthetic value/integrity). Take extreme care and caution when cutting face fabric, etc. Apply spray adhesive and reattach face fabric. Provide extension rings, etc. as required for devices (WAP, etc.) and match all installation instructions and installation details for all other electrical, fire, and other misc. device installations, etc. as it applies to mounting these devices with the acoustical panels. See architectural drawings for panel layout and seams. Installation details and mock-up of locations (using device templates) to be approved by architect prior to any installations. Failure to follow these and any manufacturer or other architectural details in handling mounting devices on/with acoustic panels will result in the contractor providing new acoustic panels at his own expense.

ADDITIONAL INSTRUCTIONS:

All surface mounted conduits shall be painted to match the substrate/surface they are mounted to. Conceal all conduits that are possible. DO NOT locate ANY devices in the Level 5 finish Green Screen Wall areas in the corner of either studio. These areas are off limits to all devices. These areas are to be maintained with NO breaks, devices, inputs, outputs, plates, boxes, JB's, conduits, wiring, etc. See the TR series lower level plan and architectural drawings for the physical extents and approx. dimensions of this off limits area. This is to be maintained from the finished floor height to the underside of the overhanging soffit/mechanical room wall height in the vertical plane.

ACOLYTE DESK LIGHTING SYSTEM:

Provide the entire L-shaped Acolyte desk accent/work lighting system & supports/hardware. Mount the Acolyte ribbons & related aluminum extrusion(s) as required for a continuous, uninterrupted appearance. Provide the appropriate extrusions adjustable leg brackets, power supplies, drivers, aluminum extrusion, Unistrut support channels, misc. blocking above ceiling, misc. hardware & interface devices as needed in order to mount & power the indicated lengths of Acolyte strips. Mount the drivers & DMX decoders inside NEMA control junction boxes with vented panels as indicated & locate above ceiling/ceiling tiles in an accessible location (discreetly mark tile to note location above). Provide all control junction boxes, custom sized raceways, additional misc. metal, brackets, hardware, etc. required. Protect from overspray & painting.

GENERAL NOTES:

Do not scale plans

Field verify all dimensions before ordering material or performing any work. Location of all devices must be coordinated with existing and/or new architectural, mechanical, electrical and structural elements. Where conflicts occur contact the architect, construction manager and consultant in writing for clarification before performing any work.

Where work is critically dimensioned to work provided by others it is the sole responsibility of the contractor to verify the intended location of all other elements with all other contractors by reviewing their shop drawings.

Coordinate all work for symmetrical installation with relation to height and level with architectural elements, switches, outlets, and other controls. These drawings represent the configuration of a system. They do not in any way constitute instructions for installation except with regards to configuration. The sole responsibility for field verification of dimensions, installation/fabrication methods, code conformance, safety issues and the quality and performance of their work shall be that of the installing contractor

These drawings are to be interpreted in conjunction with all other drawings in the construction set as well as written specifications for this project. The contents of these drawings does not in any way negate the written specifications nor do the written specifications in any way negate the contents of these drawings.

If there are inconsistencies between written specifications and drawings or between any drawing and other drawings in the construction document set, it is the responsibility of the contractor to obtain clarification before bidding this project. If no clarification has been obtained prior to bid, then the contractor shall abide by the decision of the architect and consultant at no additional cost to the owner even if work has to be

Obtain shop drawings from related trades to verify the intended configurations and scheduling of their work. The contractor is responsible for coordinating their work with other related trades in a manner that avoids conflicts of work and scheduling.









GREEN ROOM STUDIO CURTAIN PLAN TR302 ^{3/4" = 1'-0"}









GREEN ROOM STUDIO CURTAIN TRACK PLAN TR303 ^{3/4" = 1'-0"}

















TR310 1/2" = 1'-0"









PHOTO LAB PHOTOTECH ROLLEASY PLAN

TR311 ^{1/2" = 1'-0"}





























REFER TO DRAWING
RIGGING RELATE
DRAWING NOTES, B
SCHEDULES, TABLES,
NOTES AND OTHER
PERTAIN TO THE TR

Item	Notes	Qty	Mounted (M) Or Portable (P)
Photo Tech RollEasy Background System-Model MW	4 roller system - motorized operation (wall/ceiling mount style)	1	М
Photo Tech Motorized Supplementary Units	12' standard roller	2	Р
Photo Tech Cutting Edge/Bar - 12' long	Weighted 2-piece aluminum cutting edge weight	4	М
Photo Tech Ceiling Brackets	Pair for up to 4 rollers	2	М
Photo Tech Paper End Rollers	For tubed paper rolls	4	М
Photo Tech Paper Grip	Flexible Polyurethane Roll Holder (Located Per Owner's Instructions & On Smooth, Flat Wall)	4	М
Roll Background	9' x 20' Matte White Vinyl	1	M/P
Roll Background	9' x 20' Chromakey Green Vinyl	1	M/P
Roll Background (Extra Wide Seamless)	12' x 100' White #90 Paper	1	M/P
Roll Background (Extra Wide Seamless)	12' x 100' Grey #88 Paper	1	M/P
Roll Background (Extra Wide Seamless)	12' x 100' Black #97 Paper	1	M/P
Roll Background	9' x 20' Misc. Standard Colored Paper	3	M/P
White Permacel Gaffer's Tape	1" x 180' & 2" x 180'	2 Of Each	Р
Grey Permacel Gaffer's Tape	1" x 180' & 2" x 180'	2 Of Each	Р
Black Permacel Gaffer's Tape	1" x 180' & 2" x 180'	2 Of Each	Р
Mount All "Mounted" Equipment (M) As Indicated & Required. Store Verified In Writing With The Owner &	All "Portable" Equipment (P) As Directed By Owner. All Equipmer Then Either Mounted Or Stored Per The Owner's Requirements.	nt Labeled M/P	Shall Be Field
Provide All Roll Background	Papers In Colors As Determined By Owner (In Writing)		



Interconnect Diagram



















PHOTO LAB ACCESSORIES EQUIPMENT LIST:						
Item	Notes	Qty				
Manfrotto LiteLift Pantograph - short drop - 6' (Part # FF3512N86)	5/8" spigot, springs & safety cable included	5				
Manfrotto Spigot adaptor to C-Clamp						
Manfrotto Type 4 spring (Part # FF3531-3534)	Aanfrotto Type 4 spring (Part # FF3531-3534) 1					
Manfrotto Safety Cables (Part # C155-XX) per each 20						
Backstage Equipment	Milk Crates (per each)	(See Below)				
Matthews Studio Equipment Milk Crates (per each) (See Be						
(All Matthews Equipment Is Matthews Studio Equipment, Inc. of Burbank, CA)						
(All Backstage Equipment Is Backstage Equipment, Inc. of North Hollywood, CA)						
(Provide All Fixtures With C-Clamps; Provide Adapters As Indicated For All Pantograph Mechanisms)						

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GREEN ROOM STUDIO ACCESSORIES EQUIPMENT LIST:					
Item	Notes	Qty			
Manfrotto LiteLift Pantograph - short drop - 6' (Part # FF3512N86)	5/8" spigot, springs & safety cable included	10			
Manfrotto Spigot adaptor to C-Clamp 10					
Manfrotto Type 4 spring (Part # FF3531-3534) 2					
Manfrotto Safety Cables (Part # C155-XX)	per each	40			
Backstage Equipment	Milk Crates (per each)	(See Below)			
Aatthews Studio Equipment Milk Crates (per each) (See Be					
(All Matthews Equipment Is Matthews Studio Equipment, Inc. of Burbank, CA)					
(All Backstage Equipment Is Backstage Equipment, Inc. of North Hollywood, CA)					
(Provide All Fixtures With C-Clamps; Provide Adapters As Indicated For All Pantograph Mechanisms)					

Provide:
 GREEN ROOM STUDIO: (6) Backstage Equipment, Inc. Standard Milk Crates (2) Backstage Equipment, Inc. Standard School Crates (2) Matthews Studio Equipment, Inc. Wooden Full Mini Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Half Mini Apple Boxes (1) Matthews Studio Equipment, Inc. Wooden Quarter Mini Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Full Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Full Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Full Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Half Apple Boxes (3) Matthews Studio Equipment, Inc. Wooden Half Apple Boxes (4) Matthews Studio Equipment, Inc. Wooden Quarter Apple Boxes (5) Matthews Studio Equipment, Inc. Wooden Quarter Apple Boxes
 PHOTO LAB: (4) Backstage Equipment, Inc. Standard Milk Crates (4) Backstage Equipment, Inc. Standard School Crates (2) Matthews Studio Equipment, Inc. Wooden Full Mini Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Half Mini Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Quarter Mini Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Full Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Full Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Full Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Half Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Half Apple Boxes (2) Matthews Studio Equipment, Inc. Wooden Quarter Apple Boxes
(Provide ALL Milk Crates With Internal Liners)
Store As Per Owner's Instructions.
THE GRAPHIC OF THESE ACCESSORIES SHOWN IS DIAGRAMMATIC

THE GRAPHIC OF THESE ACCESSORIES SHOWN IS DIAGRAMMATIC IN NATURE AND MAY NOT REFLECT THE EXACT CONFIGURATION OF THE SPECIFIED ITEMS. PROVIDE THE ACCESSORIES AS SPECIFIED, FULLY ASSEMBLED, CONFIGURED, STORED AND READY TO USE.

THE LIST OF ACCESSORIES, ETC. SHOWN AND DELINEATED HERE IS IN ADDITION TO THOSE SHOWN ON THE LIST ON SR-701. DO NOT DUPLICATE EQUIPMENT. POPULATE ALL VARIOUS CARTS FOR EACH STUDIO WITH THE APPLE BOXES, MILK CRATES AND SAND/SHOT BAGS AS DIRECTED BY OWNER. POPULATE ALL BOXES

AND CRATES WITH MISC. ACCESSORIES INDICATED AND AS PER OWNER'S INSTRUCTIONS. THE OWNER SHALL LABEL ALL BOXES AS TO CONTENTS, ETC. AND SHALL FURTHER POPULATE BOXES AND CRATES WITH MISC. OWNER FURNISHED ACCESSORIES AS NECESSARY.

MISCELLANEOUS ACCESSORIES DETAILS TR504 NONE

Typical Matthews Studio

Equipment Apple Box.









ALL CORNERS TO BE 1 1/2" RADIUSED.

APPROX. 90

PT. FONT SIZE

APPROX. 48 PT. FONT SIZE. TYPICAL.

HEIGHT OF SIGNAGE ------ IS APPROX. AND WILL VARY ACCORDING TO THE REQUIRED FONT SIZES.

1/8" SOLID SAFETY BLACK - OUTLINE BOXES AROUND WORD MESSAGE PANELS OF SIGN

COMPANY CONTACT INFORMATION.

1/8" SOLID SAFETY OUTLINE BOXES AROUND MESSAGE PANELS OF

SAFETY GREEN BACKGROUND

1/8" SOLID SAFETY BLACK BORDER OF SIGN

THIS TEXT ONLY TO BE SOL SURFACE PRINTED WIT FADE RESISTANT IN

INSTALL ALL WALL SIGNAGE

BOLD AND CAPITAL

APPROX. 24 PT. FON FOR ALL HEADING TEX

NOTES:

Provide The Following Custom Safety Signs (See Written Specifications For More Information). Provide Per Space As Each Pertains And As Indicated. (1) General Warning Safety Sign (Mounted As Directed By Owner) (1) Standard Dead Hung Rigging Operational Guidance Sign (Mounted As Directed By Owner) (1) Pipe Grid Rigging Sign (Mounted As Directed By Owner) (1) Photo Lab Moveable Track Sign (Mounted As Directed By Owner) (1) Rigging Inspections Sign (Mounted As Directed By Owner) (1) ProMatte/ProCyc Sign (Mounted As Directed By Owner) (XX) Pipe Grid Warning Signs (Mount As Indicated) Field Verify All Exact Mounting Locations With The Owner & Mount Where Existing Obstructions Permit. DO NOT Mount Any Safety Signage Where It Is Hidden Behind Curtains, Doors, Etc. Or Where It Cannot Be Easily Seen & Read.

〔15〕

SIGNAGE MOUNTING NOTES:

Do Not Mount Any Signage In Locations Where It Is Visible From The Audience Areas (E.G., Do Not Place Signs On Open Galleries Facing Audience Or Signs On Upstage Wall Within View From Seating Areas). Do Not Place Any Signage In Locations Where It Could Become A Distraction To Audience Members. Signage Is Intended For Stage Hand & Operator Information, Use & Warning. Signage Is Not Intended To Be Visible To The Public. Mount In Suggested Locations Unless Otherwise Instructed By The Owner In Writing. Generally (With The Exception Of House Devices-Truss, Torms, Etc.), All Signage Should Be Mounted Near The Device(s) Being Described In The Signage (Within Approx. 3' - 0"). Signs Shall Not Be Mounted To The Upstage Wall Inside The Extents Of The Proscenium Opening Or In Other Locations Where They Are Buried Behind Obstructions. Signs Shall Not Be Installed Higher Than 8' - 0" AFF To Top Of Sign Unless Specifically Indicated. All Signage Must Be Installed In Areas Where It Is Visible From Most Onstage & Wing Vantage Points.

GENERAL SIGNAGE NOTES:

All Signage Shall Meet The ANSI Z535.2-2011 (R2017) Or Most Recent Version. All Safety Signage Shown Is Diagrammatic In Nature. Specific Safety Signage Text & Statements Must Accurately Reflect The Rigging At The Intended Facility. Verify All Pertinent Signage Text With The Designed & Intended System(s). Do Not Include Any Signage Text That Does Not Apply To This Particular Installation. Signage Sizes & Related Text May Need To Be Larger Than What Is Shown Due To Increased Text Demands And ANSI Requirements For Readability At Distance. Typical Readable Distance Is Generally Understood To Be Approx. 10' - 0" To 15' - 0".

Do Not Reduce Signage Text Font Size In Order To Fit Intended Verbiage Onto Specific Signage Size Shown (Except For Critical Signage Sizes Such As Unistrut, Etc. Signs). Do Not Cherry Pick Desired Text From Examples Shown Or Rename Signage Titles To Suit Personal Tastes. Include All Pertinent & Relevant Text Shown As It Pertains To This Project As Well As Any Additional Text

That May Be Relevant. Reinterpretations Of Text Are Not Allowed Without Prior Written Approval.

For All Set Naming Nomenclatures As Shown On The "Set Capacity Chart" Use Those Names As Shown On The Contract Documents Unless Specifically Instructed By The Owner In Writing To Use Alternate Naming Conventions. If The Owner Is Used To Calling Certain Set Types By Specific Names (I.E. Stage Electrics May Be Colloquially Referred To As "LX1, LX2" Or Border Curtains May Be Variously Referred To As Teaser, Olio Valance, Top Masking, Header, Etc.). In Those Cases It Would Be Best To Maintain Owner Familiarity In

Naming Conventions To Avoid Confusion. Verify With Owner In Writing Prior To Signage Fabrication.

All Signage Is To Be Installed In Locations That Make Sense & That Meet The Current ANSI Standards, Unless Otherwise Instructed In Writing By Owner To Mount Elsewhere. (I.E. Place Signage Near, Beside Or Above Equipment It Is Referring To & Within Easy View Of Operators, Except For Any Visible FOH Locations.).

All Signage Colors Referenced Shall Meet The ANSI Z535.1-2017 Or Most Recent Version Color Technical Specifications. Specific Pantone Colors Or Color Mix Makeup Percentages Have Not Been Noted Here. Refer To The Most Recent Version Of The Referenced Standard For Exact Color Requirements.

Do Not Include QR Codes Or Other Links/URL's To Specific Standards On Any Signage, As These May Change And/Or Be Superseded Over Time. Instead Reference Higher Level Locations On A Relevant Website (I.E. "Visit The 'Download Standards' Page On ESTA's Technical Standards Program Website @ TSP.ESTA.ORG For More Information" Or Something Similar). All Signage Must Be Spell-Checked By The Contractor. No Signage With Spelling And/Or Major Grammatical

Installation. Any Deficient Signage Will Be Replaced By The Contractor At His Own Expense. Fully Instruct The Owner On Periodic Maintenance Required Of Signage To Keep Clean & To Maintain Good Legibility Over Time. Inform Not To Use Harsh Cleaning Chemicals On Signage. Do Not Place Any Safety Signage Where It May Get Damaged Or Dislodged Due To Set, Arbor, Motor Or

Other Stage Device Movement Or In Areas Where Portions Of The Signage Will Be Blocked By Doors, Racks, Gates, Rigging System Components, Etc.

OUTLINE AROUND ⁻

SAFETY WHITE LETTERIN

THAT SIGN IS FLAT AGAI WALL AFTER INSTALLAT AND HAS NO RIPPL

ALL HEADING TE

NAME, ADDRE PHONE NUMBE **RIGGING SYS** INSTALLER, EQUIPM MANUFACTURER,

ALL FONTS TO BE ARIA HELVETICA OR SIMIL SANS SERIF FON

> ALL VIEWABIL VIE STANDARDS. SIZ

Mistakes Shall Be Allowed. Verify That All Final Signage Text Matches Approved Shop Drawings Prior To

	SAFETY WHITE LETTERS	ALL CORNERS TO BE SQUARE.
SAFETY INS	TRUCTIONS -	APPROX. 60 PT. FONT FOR THIS
DEAD HUNG RIGGING S	SYSTEM OPERATIONAL	APPROX. 30 PT. FONT FOR THIS
STANDARD SAFETY PRECAUTIONS: 1. You should be familiar with the safety signal words and use them properly. DANGER indicates a hazardous situation that could result in injury or death. This word should be used in only the most extreme situations. WARNING indicates a hazardous situation that could result in injury or death. CAUTION indicates a hazardous situation that could result in moderate injury. NOTICE is the word used when addressing issues not related to personal injury. SAFETY INSTRUCTIONS relates to safe operational procedures that should be learned and followed.	 LOADING A BATTEN - CONTINUED: 6. NEVER begin set loading on one end of the batten and proceed straight to the other end of the batten. This may result in catastrophic failure. 7. For intentionally offset or difficult loads, consult the system supervisor/ competent person and the Owner's Manual (mirrored dummy loads may be required). 8. Batten loading should only be done in approx. 50 lb. increments in order to maximize the safety of the equipment and operators. 	SIGN BACKGRC BE SAFETY WH COLOR TO BE II TO POLYETHYL SURFACE APPL
 Know the load capacity of all sets (distributed and point loads) and the related structure. NEVER exceed the allowable loading. See related signs. NEVER use defective or damaged equipment. Access overhead pipe battens in a safe manner and under the supervision of a competent person. NEVER work on a stage loading/unloading battens/sets alone or unsupervised. Always have at least three people involved. One performing the work, one holding the ladder/monitoring the personnel lift and one supervising. 	 Access the set batten and/or track with approved equipment and only under proper supervision by a competent person. Remove all equipment in the reverse order from the loading procedure. NEVER remove the pipe batten and related suspension hardware. NEVER allow a set batten to be out-of-balance end vs. end than can be easily controlled by the operator (typically 50 lbs. or less). 	ALL TEXT SAFETY B LETTERIN NOTED) & PRINTED RESISTAN
 NEVER modify the main rigging attachment points of any suspended stage sets. NEVER attach/remove loads on battens, curtains, tracks, etc. without the expertise, personnel and owner/supervisor authorization to proceed safely with the work. NEVER suspend people from any overhead set battens, tracks, etc. This practice is prohibited and could result in severe injury or death. 	 NOTE! YOU are responsible for identifying & evaluating any hazards and determining the correct operation method to be used. GENERAL SAFETY REMINDERS: 1. ALWAYS look around for possible hazards when entering the stage area. Be aware of what is happening around you. Minimize noise & other distractions. 	3'-0"
 LOADING A BATTEN: 1. Know the rated load capacity of the set you are working with (prior to any attachments). 2. Access the set batten and/or track with approved access equipment (lifts, 	 Do not wear loose clothing or jewelry. Tie long hair back/up and out of the way. Remove extra items from your pockets. Secure any needed tools to your body (typically to a tool pouch, belt or similar harnessing system) prior to going above the stage floor level. Watch the entire travel path of moving system parts in order to spot potential engagements with other battens, light fixtures, scenery elements, etc. and in 	PROVIDE (1) COP'
 ladders and/or other devices suitable for the venue) and only under proper supervision by a competent person. Follow all approved access equipment safety guidelines as listed in the related safety/operations manuals. Hang only equipment from the batten that can easily be controlled by one or two people. Be sure the equipment is firmly attached to the batten with approved connections. Spread the load evenly along the batten or attach it near the lift lines to avoid damage to the batten. Never damage a batten. Do not hang any loads past the last liftline on a set, as this will tend to lower that end of the batten and lift the other end, increasing the likelihood of 	 order to prevent accidents. Assign "spotters" if you can't visually follow the complete batten travel path yourself. Listen intently to spotters. 5. Stay alert while operating rigging. If anything seems wrong or unusual, immediately stop what you are doing and contact your supervisor. 6. NEVER operate a rigging system while impaired in any way. 7. Those persons not involved in the actual loading/unloading of a set batten or track should stay a safe distance away from the related set during this process. 	ALL BODY TEXT S
 catastrophic and potentially cascading sequences of failures. 5. Begin with attaching batten load additions nearest to the center of the batten. Then, work from that point out with alternating stage left/stage right incremental additions until the batten has been fully populated. This will maintain a mostly even loading scenario during the entire loading process. 	 ALWAYS follow ALL manufacturer recommendations as it pertains to the safe operation of the stage rigging system. 	APPROX. 16 PT FOR ALL BULLE NUMBERED TEX
(CONTRACTOR INFOR	MATION GOES HERE)	ALL WALL ATTA SAFETY SIGNAG ATTACHED IN C WITH TAPCON S SCREWS WITH WASHEDS UND
** THIS SYSTEM MUST BE INSPECT SEE INSPECTION REQUIREM	ED EVERY 5 YEARS AT A MINIMUM. ENTS ON OTHER SIGNAGE **	
<	>	



SAMPLE STANDARD OPERATIONAL SIGNAGE

REFER TO DRAWINGS CTE TR60X FOR ALL RIGGING RELATED REMOVAL NOTES, DRAWING NOTES, BUBBLE NOTES, KEYS, SCHEDULES, TABLES, ELECTRICAL RELATED NOTES AND OTHER INFORMATION THAT PERTAIN TO THE TR SERIES DRAWINGS.	ew York 12550-760 c s a r c h p c . c o m
0	t St Newburgh - N 1 - 3179 w w w . o
60 PT. THIS TEXT.	19 Fron 845 · 56
30 PT. R THIS TEXT.	esigns inc. C R P O R A T E D HEATRICAL DESIGN - FAX: (585) 586-1143
CKGROUND TO TY WHITE. O BE INHERENT ETHYLENE, NOT E APPLIED.	Corsultant
TEXT TO BE SOLID FETY BLACK TERING (EXCEPT AS TED) & SURFACE	
SISTANT INK	
	ISTRIC
) COPY IN R'S MANUAL. FEXT SHALL FULL JUSTIFICATION.	
16 PT. FONT BULLETED/	
ED TEXT. ATTACHED SIGNAGE TO BE	
PCON STYLE WITH FLAT S UNDER HEADS.	BUIL
PPROX. 1/2" SIDES AND 1/2" TOP AND BOTTOM.	SGED CTE
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	Checked By: SP. Proj. #: 44-16-00-01-0-053-00 CSArch Proj. #: 108-230 Issued for Bid: 4/15/2024
	STUDIO & PHOTO LAB RIGGING SYSTEM
	DETAILS - AREA '3'
COPYRIGHT © ALL RIGHTS RESERVED	IK506 CONSTRUCTION DOCUMENTS



NOTE (TYPICAL FOR ALL PIPE GRID SSRC WALL FLANGE ATTACHMENT LOCATIONS):

ALL HARDWARE TO BE 3/8" DIAMETER MINIMUM & GRADE 5 OR HIGHER (BOLTS, WASHERS, NUTS, ETC.).

ALL THREADS MUST BE TREATED WITH VIBRATITE AND USED IN SUCH A WAY AS TO BE VISIBLE UPON INSPECTION. ALL PAINTING SHALL BE PERFORMED IN A PROFESSIONAL

MANNER. THIS INCLUDES UTILIZING PROPER PRIMING AND FINISH COATING TECHNIQUES AS REQUIRED AND THE PROPER MASKING OF ADJACENT AREAS & ACOUSTIC

WALL PANELS. PAINT SHALL BE SPRAY APPLIED WHERE POSSIBLE BEFORE SUSPENSION AND SHALL BE MULTI-COAT AND NEAT. NO DRIPS, RUNS, MOTTLED FINISHES, ETC. SHALL BE

ALLOWED. PAINT ALL PIPE GRID, WALL FLANGES, ACCESSORIES AND ALL ATTACHMENT HARDWARE FLAT BLACK (IF NOT INHERENTLY FLAT BLACK).

NO BRIGHT, SHINY, BARE METAL COLORED OR OTHERWISE CONFLICTING COLORED METAL OR HARDWARE ITEMS SHALL BE ALLOWED FOR ANY PORTION OF THE PIPE GRID SYSTEM.

LOCATE ALL HOLLOW WALL ANCHORS AS DIRECTED BY PROJECT STRUCTURAL ENGINEER. DRILL AND/OR TAP ALL HOLES BY STANDARD ACCEPTED PRACTICES AND TO PREVENT SPALLING, CRACKING OR OTHERWISE DAMAGING THE EXISTING/NEW CONCRETE BLOCKS (ESPECIALLY THE REAR SIDE OF BLOCK CORES BEING DRILLED INTO). DO NOT CUT, NICK OR DAMAGE ANY EXISTING INTERNAL

BLOCK REINFORCING.

ALL WELDING OF PIPE GRID AND WALL FLANGE ASSEMBLIES (SHOP & FIELD) PERFORMED BY CERTIFIED WELDERS AND IN ACCORDANCE WITH CURRENT AMERICAN WELDING SOCIETY SPECIFICATIONS. ENSURE THAT ALL ITEMS ARE IN PROPER PLUMB AND LEVEL POSITIONS PRIOR TO FINAL WELDING. FIELD WELDING SHALL BE DONE CAREFULLY AND WITH WELDING BLANKETS COVERING ALL FLAMMABLE SURFACES IN THE VICINITY OF THE WELDING (IE - ACOUSTIC TREATMENTS, GYP, HARDWOOD BLOCKING, ETC.). IT IS RECOMMENDED THAT ALL PIPE GRID INSTALLATION AND WELDING BE PERFORMED BEFORE ANY ACOUSTIC WALL PANELS AND FINAL FINISHES HAVE BEEN INSTALLED.

DO NOT CUT ANY PART OF ANY WALL REINFORCEMENT OR OTHER STRUCTURAL MEMBERS WHEN INSTALLING PIPE GRID ASSEMBLIES. IF CONFLICTS EXIST, SHIFT PIPE ASSEMBLY INSTALLATION LOCATIONS INCREMENTALLY IN ORDER TO AVOID REINFORCEMENTS.

FIELD INSPECT WALL CONSTRUCTION PRIOR TO FABRICATION AND ATTACH ALL PIPE GRID ASSEMBLIES IN A SAFE MANNER AND WITH THE LOAD RATING INDICATED. **COORDINATE THE EXACT MOUNTING METHODS &** ANCHORS USED WITH THE ACTUAL WALL CONSTRUCTION, INTERNAL BLOCKING & THE PROJECT STRUCTURAL ENGINEER IN ORDER TO PROVIDE AN OVERALL ASSEMBLY WITH THE APPROPRIATE LOAD RATINGS & SAFETY FACTORS AS INDICATED AND WHILE ATTACHING EACH BASE PLATE INTO STRUCTURAL MEMBERS. PROVIDE ALL INDICATED AND ADDITIONAL BLOCKING INSIDE WALLS IN ORDER TO OBTAIN APPROPRIATE MOUNTING SURFACES. ALL INTERNAL WOOD BLOCKING MUST BE SNUG FITTING AND SHALL NOT BE NARROWER THAN THE OPENINGS INTO WHICH IT IS MOUNTED. BLOCKING SHALL BE REQUIRED TO BE TIGHT TO BLOCK WALL AND TIGHT TO REAR SIDE OF GYPSUM WALL BOARD IN ORDER TO PREVENT CRACKING, BUCKLING, ETC, DURING WALL FLANGE INSTALLATION OR ANY SETTLING, SHIFTING, ETC. OF THE PIPE GRID DURING

USE.

NOTE:

THE PIPE GRID ASSEMBLY IS INTENDED ONLY FOR THE LOAD TYPES AND USAGES SHOWN. INTENDED USAGE INCLUDES TRACK AND CURTAINS, LIGHTING FIXTURES, AUDIO GEAR, MISC, POWER SUPPLIES, OWNER PROVIDED ACCESSORIES AND RELATED ITEMS ONLY.

THE PIPE GRID ASSEMBLY IS NOT INTENDED FOR USE AS A SUPPORT STRUCTURE FOR ADDITIONAL CHAIN MOTORS, HOISTS OR TRUSSING.

ANY USE OF THE PIPE GRID ASSEMBLY OTHER THAN THAT SHOWN AND INTENDED IS STRICTLY PROHIBITED.











GREEN ROOM STUDIO & PHOTO LAB CURTAIN SCHEDULE: Curtain Name Width Height

Curtain Name	Width	Height	Notes	Fullness	Material Type
All Black Walk-Along "Gangable" Panels (Both Spaces)	As Indicated	As Indicated	Provide Curtains In Individual Panels That Are Able To Be "Ganged" Together In Various Configurations In Order To Mask Different Areas As Needed Or So That Entire Bank Of Panels Can Be Used To Form One Continuous Traveler Curtain. Provide With Velcro Strips, Chain Pocket, Chain, Grommets & Tie Off System.	25%	KM Fabrics 18 oz IFR Crescent With No Lining
All "CBS Gray" Walk-Along Continuous Panels (Green Room Studio Only)	As Indicated	As Indicated	Provide Curtains In Single, Continuous Panels To Be Used Where Needed Or So They Can Be Used To Form One Continuous Gray Backdrop Curtain. Provide With Velcro Strips, Chain Pocket, Chain, Grommets & Tie Offs	0%	KM Fabrics 18 oz IFR Crescent With No Lining
All Digital Keying Walk-Along Continuous Panels (Green Room Studio Only)	As Indicated	As Indicated	Provide Curtains In Single, Continuous Panels To Be Used Where Needed Or So They Can Be Used To Form One Continuous Digital Blue Backdrop Keying Curtain. Provide With Chain Pocket, Chain, Grommets & Tie Offs	0%	Fred Krieger Fabrics Supreme Fabric With No Lining - Digital Blue
Roll Mounted Backdrops (Provide (1) Roll Of EACH Different Type Shown) In Addition To Those Shown On Other Schedules (Photo Lab Only)	As Indicated	As Indicated	Provide Continuous, Seamless Rolls As Indicated. Provide Each Roll With Heavy Duty Cardboard Tube. Mount To PhotoTech Rollers As Needed. Up To Four Backgrounds Can Be Stored In MW System At One Time. All Other Unused Backgrounds Shall Be Stored In PhotoTech Paper Grip System. Mount As Directed By Owner. See Other Drawings For More Paper/Background Types Required.	0%	PhotoTech Extra Wide Seamless Paper (NFR): ChromaKey Green #85 - 140" x 100' Grey #88 - 140" x 100' PhotoTech Vinyl Background (NFR): Matte White - 107" x 20' Matte Black - 107" x 20'

General:

NOTE: Refer To Rigging Specifications For More Information Regarding Specific Curtain Types, Colors, Fabrication & Other Requirements.

"As Indicated" Intents Are That All Curtains Be Sized Per The Plan & Section View Drawing Dimensions Shown, Unless There Are Physical Constraints With The New System Which Preclude This Intended Sizing. If Physical Sizing Constraints Are Present Which Do Impact The Intended Curtain Sizing, Then Contact The Consultant In Order To Obtain Revised Sizina Requirements. IFR Indicates That Curtain Material Is Inherently & Permanently Flame Retardant & Never Needs Flame Treatment For The Life Of The Fabric. Flame Retardant Will Not Wash Out

Unless Treated With Additional Flame Retardant Chemicals.

FR Indicates That Curtain Material Is Flame Retardant Via Chemical Treatment In Order To Offer Flame Resistance. This Material Must Be Retreated Periodically By Qualified Personnel In Order To Maintain Its FR Status. Flame Retardant Chemical Salts Will Wash Out When Exposed To Water, Steam, Dry Cleaning Or Other Water-Based Liquids.

NFR Indicates That Curtain Material Is Not Flame Retardant Treated In Any Way. Oz Weights Given Are Per Yard And Are Approximate. See Manufacturer's Specs For Exact Weight Per Yard.

Miscellaneous:

Any Uninstalled Drapes Shall Be Neatly Folded, Bagged, Sealed, Labeled And Stored As Instructed By The Owner (Use Curtain Hampers If Provided).

All Installed Curtains Must Be Hung Long Enough For All Wrinkles, Folds & Creases From Storage & Shipment To Have Been Removed (Use Bottom Pipe Weight, Stretchers, Etc. To Assist As Needed). Final Curtain Presentation, Upon Acceptance Testing & Room Turnover To The Owner, Shall Be Smooth, Flat Curtains. No Curtains Displaying Wrinkles, Folds & Creases Or Other Such Anomalies Shall Be Allowed Or Accepted.

The Bottom Edge Of All Installed Curtains Must Be Level & Flat Relative To The Finished Floor. No Curtains Shall Be Allowed That Feature A Hump, Angle, Wave Or Other Non-Parallel & Non-Level Installations. Provide Flat Fabric Tie Back Straps For Use As Tie-Ups For All Studio Curtains. See Details For Complete Info.

All New Curtains Shall Be IFR Unless They Are Specifically Called Out On These Drawings Or In The Written Specifications As Being Other.

WARNING! - Notify The Owner In Writing And During Trainings (To The Highest Level Possible) That Any Future Chemical Treatments Of IFR Curtains (Such As The Application Of Inspecta-shield Fire Retardant Or Equal) Will Negate Those Very IFR Properties In The Fabric, Thus Potentially Rendering Them Able To Burn And In Violation Of NFPA Standards. Notify The Owner That, If Such Chemical Treatments Are Applied To IFR Curtains The Manufacturer Cannot Stand Behind The Material.

Provide The Following Fabric Style Tieback Sling/Strap Package: Fabric Style Straps For Use As Tie-Ups For All "Gangable" Curtains. Provide In Color Matched Fabric. Provide Quantities As Indicated. Store In Clear Plastic "Jugs/Totes" Per Owner's Instructions. Provide Eyebolts On The Side Walls @, Approximately 48" AFF For Attachment When Curtains Are Gathered & Stored (Locate Per Owner's Instructions & In Areas Where Acoustic Panel Conflicts Or ChromaKey Green Wall Conflicts Exist. Provide Each Fabric Sling/Strap With S-Hooks Crimped On The Strap Side & Open On The Hook Side (For Eye Bolt). See Details For More Information.

Provide The Following Empty Carriers For Each Studio Track System (One Set For The Green Room Studio & One Set For The Photo Lab): (6) Master Carriers; (24) Standard Carriers - Provide Carriers As Loose Spares. These Will Be For Spares/Replacements And/Or Additional Drops/Curtains As Needed By Owner. Store Extra Carriers In A Contractor Provided Clear Plastic Tote Per Space & Store Per The Owner's Instructions.

NOTE

It is each contractor's responsibility to receive all device shipments, equipment, deliveries, etc. for their own equipment on/at the job site personally. This will require each contractor to carefully coordinate drop-ship delivery dates with the manufacturers and trucking companies in order to have adequate personnel on site to inspect, unload and store all shipments. Each contractor shall be responsible to arrange for storage of all received materials on site until the appropriate time when he shall either turn them over to installing contractor or install them himself. If the contractor chooses to allow a third party to receive shipments on his behalf, then that contractor bears sole responsibility for any missing and/or damaged parts and devices that may need to be reordered or rush freight required to maintain schedule, all at no additional cost to the owner. Any equipment that is furnished by the receiving contractor but installed by others shall be turned over to the installing contractor at such time as it fits into their production schedule and the project's overall construction schedule. Any large items such as racks, emergency transfer equipment, etc. shall be transported by the receiving contractor from its storage area and relocated to the general vicinity (i.e. in the room and general area) where it will be installed. At this point in time it shall be turned over to the installing contractor for installation.

GENERAL NOTES

Do not scale plans.

additional cost to the owner even if work has to be redone.

Field verify all dimensions before ordering material or performing any work. Location of all devices must be coordinated with existing and/or new architectural, mechanical, electrical and structural elements. Where conflicts occur contact the architect, construction manager and consultant in writing for clarification before performing any work. Where work is critically dimensioned to work provided by others it is the sole responsibility of the contractor to verify the intended location of other elements with other contractors by reviewing their shop drawings.

Coordinate all work for symmetrical installation with relation to height and level with architectural elements, switches, outlets, and other controls.

This drawing represents the configuration of a system. It does not in any way constitute instructions for installation except with regards to configuration. The sole responsibility for field verification of dimensions, installation/fabrication methods, code conformance, safety issues, and the quality and performance of their work shall be that of the installing contractor. This drawing is to be interpreted in conjunction with other drawings in the construction set as well as written specifications for this project. The contents of the drawing do not in any way negate the written specifications, nor do the written specifications in any way negate the contents of the drawings. If there are inconsistencies between written specifications and drawings or between any drawing and other drawings in the construction document set it is the responsibility of the contractor to obtain clarification before bidding this project. If no clarification has been obtained prior to bid the contractor will abide by the decision of the architect and consultant at no

Obtain shop drawings from related trades to verify the intended configurations and scheduling of their work. The contractor is responsible for coordinating their work with other related trades in a manner that avoids conflicts of work and scheduling.

The contractor shall perform all electrical work as described below and on each TR series drawing.

Each note and detail indicator indicates a typical location for the type of work to be performed or equipment to be provided. The referenced contractor shall provide for all instances of typical work indicated. All drawing notes may not appear or be referenced on each drawing; however, all notes still apply to the work indicated within each note and all similar instances of typical work shall be performed by the referenced contractor(s). All work shall conform to the standards of Divisions 19 & 26 as well as this project's architectural & structural standards, the construction schedule, the current National Electric Code (NEC) and all other

REFER TO THE 19 3000 SPECIFICATIONS SECTION AND ALL OTHER TR SERIES DRAWING NOTES, KEYS, SCHEDULES, ETC. AS THEY CONTAIN ADDITIONAL INFORMATION REGARDING THE EC'S SCOPE OF WORK AS IT **RELATES TO THE THEATRICAL RIGGING SYSTEM.**

PROFESSIONAL STANDARDS:

applicable codes and standards.

The contractor is expected to install all work to the appropriate industry professional standards, manufacturer recommendations and current applicable codes. If any work required exceeds the skills of the contractor, then he shall employ appropriate subcontractors for the scope required.

The acceptability of materials and workmanship shall be determined by the Architect, Consultant and CM. Any work that might be damaged, inadvertently painted or become dirty during construction will be protected by the contractor. All responsibility for protection shall be by the contractor. The contractor shall provide final cleaning and or repair of all equipment in their scope to like new condition.

The contractor shall attend and/or arrange meetings as required to ensure their scope is coordinated with all other trades. The contractor is responsible to make known to all other trades critically dimensioned items and locations to avoid conflicts. Where conflicts occur, follow required procedures in the project manual to seek resolution.

Where any substandard work is provided by related trades that impedes the work of the contractor, he shall notify the CM, Consultant, Architect or Engineer in writing as called for in the project manual to rectify the issue.

Where work is provided by others, the contractor is responsible to verify installation conditions that relate to his work. If installation of related work is substandard, then the contractor shall generate a written RFI through proper channels based upon the project manual. The contractor shall not install his work to any substandard devices, etc. provided by others until such work has been resolved or until the contractor has received written authorization from the construction manager to proceed. If the contractor ignores substandard installation work by others and proceeds to install his devices to these items, then he accepts and bears sole responsibility to repair, reinstall and correct any found deficiencies to the satisfaction of the owner upon final inspections.

The contractor shall comply with the AHJ (Authority having jurisdiction) as it relates to programming any and all emergency interfaces.

The contractor is expected to possess knowledge of the equipment of his industry and provide all required small items required to install the specified equipment. Provide all small items such as rack rails, DIN rails, power cords, connectors, wall-wart power supplies, crimps, nicopress and other items that may not be specifically called out on the drawings or in the specs but are required to support primary equipment.

When in doubt about any aspect of the work, the contractor should not proceed until he obtains clarification from the appropriate entity with authority following procedures detailed in the project manual. INSTALLATION OF EQUIPMENT:

Install system devices, feeder cabling, disconnects, wiring, etc. as delineated on the Theatrical Systems Scope Delineation Matrix Spreadsheet included on these drawings. All items bearing the mark "X" in the column are the responsibility of the indicated contractor to perform.

All attachment methods for equipment to conform to Division 26 and Division 19 specifications.

GENERAL ELECTRICAL REQUIREMENTS:

shop drawings.

For all network, category, control and data style cabling: Restrict all conduit and wiring runs to less than 250 lineal feet (as measured along the resulting wire path from origination point to destination point). No network, category, control and data style cabling runs shall be allowed to exceed 250 feet.

Provide all devices, conduits, junction boxes, backboxes, wiring, etc. that are required to have a specified rating as devices with those ratings and listings per all applicable codes. This includes CE, UL, ETC, NEMA, plenum ratings, etc.

No conduits and/or wiring shall be allowed to be routed in, around or in such a way as to restrict or obstruct the movement of any rigging system components. Any conduits and/or wiring so installed shall be required to be moved by the installing contractor. This note applies to all conduits and/or wiring on this project (lighting, audio, video, AV, rigging, data, fire system, network, smoke detection, alarm, etc.).

Provide all conduit, wire, SO cables, raceways, switch boxes, junction boxes, duplex or guad outlets and related faceplates, breakers and panels, disconnects, switches, miscellaneous hardware, cable reel devices, SO cabling, flex conduit, misc. interface devices, misc. boxes, misc. electrical device mounting hardware and all installation labor required to provide complete conduit layouts and control, line and load circuits/runs, interfaces, switches as indicated. Refer to rigging related notes below and written specifications for additional scope as it regards assembly, installation labor, labeling requirements and/or coordination with related trades. Labeling requirements outlined in the written specifications are extensive and detailed. These requirements apply to all devices/systems listed below.

Labeling: All conduits shall be clearly labeled on each end as to their origin and destination in a simple, logical manner. All junction doxes, switch doxes and backdoxes indicated on drawings shall be labeled with the nomenclature indicated on the drawings. All outlet boxes shall be labeled with the corresponding panel and circuit designations they are fed from. Permanent black marker on conduit or junction box face is acceptable on conduits, junction boxes, etc. that will not be painted. If any related devices are to be painted, then provide the following: Conduits shall be labeled with 3M Durable ID Labels with permanent adhesive (applied after painting). Junction boxes, etc. shall be labeled with 3M Durable ID Labels with permanent adhesive (except stage devices, which shall be labeled with Lamacoid style engraved labels, permanently adhered to the device). All junction boxes, outlets, etc. shall also be labeled on the back of each cover plate and also with a durable tag inside each box stating the same information. All labeling shall be done with block style lettering/numbering by hand or printed. All labeling shall reference the device's designation, conduit originations/destinations, etc. & not be a coded, indexed or legend style referencing system.

All provided, furnished or installed equipment and labor may appear in schedules, on plan layouts, in flow diagrams or on detail drawings. Carefully consult each drawing in order to obtain an exact delineation of his responsibilities as it pertains to provision of equipment, installation of equipment for others, assembly and wiring of equipment furnished by others and other necessary installation labor as noted in detail on these TR series drawings.

All locations & clearances shown for the rigging system & other related devices (motor starters, user control interfaces, etc.) are specific & critical and may not be altered in the field without obtaining prior written permission from the consultant. Any new proposed locations or field obstructions must be communicated to the consultant in writing and clearly indicated on scaled plan drawings for approval prior to rough-in.

All conduits shall be clearly labeled as to their destination (permanent black marker on conduit acceptable). No conduit shall be

allowed to be loaded beyond 50% fill Provide all low voltage control cabling pulled in and out of conduit as indicated on drawings. Do not pull any wire until submittals and rigging shop drawings have been approved & issued. Verify all wire types, quantities and routing with the approved submittal

Do Not install any system devices, power, boxes, cabling, conduit, wire, etc. until a thorough and complete review of the approved motorized rigging shop drawings, as some items and requirements could change. Only purchase and install system related devices after a full consultation with these drawings and the provided equipment and related furnishing contractor/manufacturer.

Provide required breaker panel, feeder, motor rated breakers, conduit, wire and power to distribute power per NEC to all motorized units.

Provide wiring types & counts as indicated on the approved shop drawings (use those shown here as a guide). Quantities and types may be slightly different on shop drawings then what is shown on the bid documents due to manufacturer recommendation changes, enhanced feature set upgrades, substitutions, etc. The contractor shall be responsible for all wiring as indicated on the final approved shop drawings.

Provide any required step up/down voltage transformers in order to provide power for the motorized systems as required. Any required transformer(s) shall NOT be allowed to be located on the stage or in the vicinity where it would allow its acoustic noise output to be heard on the stage or in the general auditorium/control booth/stage areas. Fire stop all penetrations in new and existing fire rated assemblies that results from the work of this contract. All fire-stopping

Provide all power, conduits, wire, installation labor, misc. junction boxes, installation of misc. power units, operator control panel(s) misc. remote devices and any miscellaneous installation hardware needed in order to complete the work indicated for the wiring of the PhotoTech RollEasy motorized roll drop background systems and controls. Provide all wiring and termination for the motorized unit(s) power and control wiring and all necessary hard wired terminations, etc.

must adhere to NEC, NFPA and all other current applicable safety standards.

GREEN ROOM STUDIO & PHOTO LAB RIGGING SYSTEM KEYED NOTES:

Each note and detail indicator indicates a typical location for the type of work to be performed or equipment to be provided. The on each drawing; however, all notes still apply to the work indicated within each note and all similar instances of typical work shall be performed by the referenced contractor(s). All work shall conform to all applicable codes, construction schedules and standards as well as this project's architectural & structural standards. Some notes apply to both studio spaces (green room studio and photo lab) and others only to one. Provide as required per space. PROFESSIONAL STANDARDS:

The contractor is expected to install all work to the appropriate industry professional standards, manufacturer recommendations and current applicable codes. If any work required exceeds the skills of the contractor, then he shall employ appropriate subcontractors for the scope required. The acceptability of materials and workmanship shall be determined by the Architect, Consultant and CM.

Any work that might be damaged, inadvertently painted or become dirty during construction will be protected by the contractor. All responsibility for protection shall be by the contractor. The contractor shall provide final cleaning and or repair of all equipment in their scope to like new condition.

The contractor shall attend and/or arrange meetings as required to ensure their scope is coordinated with all other trades. The contractor is responsible to make known to all other trades critically dimensioned items and locations to avoid conflicts. Where conflicts occur, follow required procedures in the project manual to seek resolution.

Where any substandard work is provided by related trades that impedes the work of the contractor, he shall notify the CM, Consultant, Architect or Engineer in writing as called for in the project manual to rectify the issue.

Where work is provided by others, the contractor is responsible to verify installation conditions that relate to his work. If installation of related work is substandard, then the contractor shall generate a written RFI through proper channels based upon the project manual. The contractor shall not install his work to any substandard devices, etc. provided by others until such work has been resolved or until the contractor has received written authorization from the construction manager to proceed. If the contractor ignores substandard installation work by others and proceeds to install his devices to these items, then he accepts and bears sole responsibility to repair, reinstall and correct any found deficiencies to the satisfaction of the owner upon final

The contractor is expected to possess knowledge of the equipment of his industry and provide all required small items required to install the specified equipment. Provide all small items such as misc. JB's, connectors, power supplies, crimps, nicopress and other items that may not be specifically called out on the drawings or in the specs but are required to support primary equipment. When in doubt about any aspect of the work, the contractor should not proceed until he obtains clarification from the appropriate entity with authority following procedures detailed in the project manual.

All painting shall be performed in a professional manner. This includes utilizing proper priming and finish coating techniques as required and the proper masking of adjacent areas.

Paint shall be spray applied where possible before suspension and shall be multi-coat and neat. no drips, runs, mottled finishes, etc. shall be allowed.

THEATRICAL SCOPE NOTES FOR THE THEATRICAL RIGGING SYSTEM:

All pipe grid rigging systems equipment to be H&H Specialties, SSRC, ADC or equal. All system miscellaneous hardware such as shackles, bolts and other hardware to be of domestic manufacture and stamped with the working load limit. The working load limit shall incorporate a safety factor of at least 10:1. See written specifications and detail drawings for additional rigging standards and requirements. Minimum size of misc. hardware to be 1/4" (this includes wire rope assemblies). Provide larger sizes as required in order to maintain indicated load ratings and safety margins. All rigging system equipment and all misc. hardware shall be brand new (never been used before) and specifically configured for

All rigging system equipment and all misc. hardware indicated on these drawings shall be mounted to the beams and overhead steel as is visually depicted. The intent is for all headblocks, loftblocks, beam clamps, suspension assemblies, etc. to be mounted to overhead beams/trusses. Attachment points are indicated through visual representations on these drawings and the building's structural beams are the intended recipients of these rigging system suspension hardware assemblies (unless alternate attachment methods have been designed and clearly indicated on the contract documents). The contractor shall not be allowed to field select other rigging attachment points, misc. spanning steel, alternate locations, etc. not depicted on the contract documents, and from which to suspend the rigging system equipment, unless prior written authorization has been specifically granted, verified by the project structural engineer and clearly communicated to all design team members and related construction trades.

All suspension hardware, liftlines, supports lines, etc. shall be installed plumb (understood to be perpendicular in the vertical plane relative to earth level) from their overhead attachment points to their batten (or other) terminations points, unless they are bridles or are otherwise specifically shown on the contract documents as being installed at angles.

All misc. hardware used on this project shall feature load rating markings (if applicable). All hardware shall be Grade 5 minimum (higher if specifically called out). LOADING INFORMATION:

All loading information shown below is approx. All lbs/LF loading is understood to be evenly distributed along the entire length of

inspections.

GENERAL:

use on this project.

the related batten.

Studio dead hung pipe grid system shall be rated for an approx. 20 lbs/LF live load plus the self-weight of the related suspension, batten and hardware along all pipes All wire rope shall be of a tested load rated variety, either domestic or imported. Load test information must be provided for all wire rope utilized in this system.

At any locations where nicopress oval sleeves have been provided and crimped but are in inaccessible locations where field inspections are not possible from the floor, platform or other area, the contractor shall provide written authentication and digital photos of these properly crimped swages (to the manufacturer's recommended tolerances in order to realize full load capacity) and shall provide copies of these verifications to the consultant, architect and owner.

RIGGING SYSTEM EQUIPMENT:

overhead structural steel and be rated for a 10:1 safety factor for the loads imposed.

Provide miscellaneous metal, plate steel adapters and/or Unistrut support members complete with Unistrut channel assemblies, wall flanges, welded verticals & bracing, misc. beam clamps, load rated anchorages and all necessary and miscellaneous hardware as indicated and/or needed in order to provide appropriate pickup points for all rigging equipment where beams do not exist and/or to mount devices where indicated. Mount at elevation(s) as indicated on TR series drawings. Entire Unistrut assemblies and all suspension hardware are to be painted by the contractor only as indicated or as directed by architect/owner and to match adjacent or mounted to surfaces. Miscellaneous metal and Unistrut assemblies must be rigidly attached to existing

Provide pipe grid system complete with all required hardware, misc. clamps and any other necessary items as indicated. Mount pipe grid at elevation as indicated on TR series drawings. Entire pipe grid and all suspension hardware is to be inherently black or painted flat black. No shiny, gray or aluminum, zinc or galvanized colored items shall be allowed. All batten & pipe grid (24) on TR series drawings and/or as required for system installation. Provide customized brackets as required. Provide stiffener brackets for all locations where connector strips are not present and at projection screen suspension assembly locations as suspension assemblies shall feature copper nicopress closures on lift lines with thimbles, shackle, turnbuckle and H&H Specialties full pipe clamps as indicated.

Provide SSRC style 8" x 8" black wall flanges on welded steel plates and internal pipe mount insert for 1 1/2" schedule 40 black iron pipe for lateral wall support and/or main structural supports for all tormentor and Shakespeare pipe assemblies. SSRC or equal. Mount to masonry with load rated epoxy masonry anchors or as indicated. Provide in wall blocking as required for all gyp/studded walls.

Provide H&H Specialties model #680 full batten clamp assembly for all indicated batten suspension locations with Grade 5 hex (25) related trades. Wall wall blocking shall be either a solid hardwood block or a built up assembly of Baltic Birch style or equal head bolts, lock washers and a load rated shackle. Tighten batten clamp tight enough to prevent it from "walking" along pipe batten or sliding under load.

Provide a PhotoTech RollEasy Model MW motorized roll drop system for the Photo Lab (including all wall/ceiling mounts brackets, backgrounds, rollers, spares, roller storage devices, power/control distro box, remote wall control, drive assemblies, idle ends, core clamps, misc. jumpers) and all accessories and installation labor as indicated & required. Install in location indicated on drawings.

Provide a Manfrotto Sky Track system for the Photo Lab and all parts & accessories as indicated and required to provide a complete and fully functioning system. This includes, but is not limited to, black anodized rails - both fixed and movable, nounting brackets, aligning connectors, end stops, tube brackets, sliding carriages, spigots, spigot adapters for all indicated ighting fixtures, cable carriages & supports, operating poles, outlet boxes, pantographs, springs, posts, extension tubes, safety cables and all misc. and related hardware. All portions of the Manfrotto Sky Track system must be inherently black. No shiny or gray/metal colored devices shall be allowed (except stud/spigots).

Provide Sapsis Rigging Grid Lock pipe clamps or equal. All clamps to be constructed of two separate pieces of 7 gauge steel formed flat bar stock. Pipe clamps shall be formed to accept 1 1/2" schedule 40 black iron pipes tightly when attached to two of them in perpendicular pairs. All grid lock clamp halves to be connected together with 3/8" Grade 5 bolts and nyloc nuts. Bolts shall be just long enough to penetrate end of nut when tightened and shall not protrude below nut by more than 1/4". The WLL limit of a clamp pair shall be 1,800 lbs. All portions of the clamp shall be flat black (spray paint bolts and nuts after final

Provide SSRC cable tray system in the Green Room studio & Photo Lab above the pipe grid as detailed and specified. Provide the SSRC CT-8410 cable tray system in lengths and in locations indicated. See plan view drawings for total length of cable tray system needed. All cable trays and misc. brackets/accessories must be finished flat black. NO other colored finishes shall be allowed. See TL series drawings for more information on exact intended location.

ALL SUSPENSION CABLES, THREADED ROD, CONDUIT, BACKBOXES, UNISTRUT, CABLE TRAYS, MISC. HARDWARE, WIRING, STRAPS, LOOSE CABLING AND MISC. DEVICES MOUNTED IN THE STUDIO CEILING AREA THAT ARE NOT INHERENTLY BLACK MUST BE PAINTED FLAT BLACK BY THE INSTALLING CONTRACTOR. ALL DEVICES MUST BE PROTECTED FROM DRYFALL OR OTHER PAINT INFILTRATION INTO SENSITIVE AND/OR OPEN CHANNELS, CONNECTORS, ETC. AND CLEANED AFTERWARDS TO AS NEW CONDITIONS BY THE INSTALLING CONTRACTOR. FAILURE TO DO SO MAY REQUIRE THE INSTALLING CONTRACTOR TO PROVIDE NEW EQUIPMENT TO REPLACE EQUIPMENT WITH PAINT INFILTRATION.

Provide B-Line B422-X Series 7 gauge standard duty, steel right angle beam clamp (with load rated U-bolt and hex nuts) for the (10) overhead suspension of "direct-to-steel" pipe attachments. Provide clamp sized to match pipe. Provide one clamp per each side of each supporting beam, unless noted otherwise. Ensure that all beam clamps are installed properly, sit straight, even and level on each beam, have both hex bolt/lock nuts installed. Beam clamps shall be rated for a minimum WLL of 600 lbs. each. Verify flange dimensions and clearances prior to ordering any hardware.

Provide 1.5" (1.9" OD) Schedule 40 black iron pipe battens (painted flat black) with industry standard 18" batten splices & grade 5 minimum hardware (no threaded ends or couplers allowed). Batten splices shall be precisely drilled so that any batten on any set could be interchanged with that of any other set. Adjust battens on trim chains to hang true, level and plumb to upstage-downstage orientation and the stage floor. Provide safety yellow vinyl plastic ends caps on both ends of all battens (except FOH shall have black caps). Electric and projection screen sets shall be pipe-over-pipe style with brackets every 5' plus one on each end. See TR detail drawings for more information.

All battens must be installed perfectly level with each other in both orientations +/- 1/16".

CURTAIN TRACKS:

tiahtenina).

BATTENS:

CURTAINS:

Provide ADC Rig-I-Flex 140/240 walk along tracks (both straight & curved sections as needed) with crossover at the center as needed and so that the curtains may track into the wings against the side walls. Provide carriers on 12" centers on these tracks (6" centers for any curved tracks). Provide supplemental bracing, brackets & accessories as needed to mount tracks as itended. I racks to be suspended per manufacturer's recommendations. Attach to pipe batten backbone as indicat General Track Info: Provide all curtain tracks as black powder coated steel tracks along with all black parts, pulleys, mounting hardware, etc. Provide all required carriers and jack chains in a black finish. No portions of the curtain tracks and related hardware shall be allowed to feature shiny or metal colored/gray finishes.

Provide curtains, straps and accessories as indicated on drawings, in specs and on schedules.

Provide CR Daniels Dandux extra duty style canvas basket/truck laundry hampers (see details for exact quantities, size requirements, etc.). All carts shall feature heavy-duty zinc plated welded steel construction, stitched and reinforced vertical pipe support pockets, stitched double laver/folded top edging with rust resistant brass grommets, reinforced push-pull handles on either end of the cart, casterboard (all casters shall be 3" heavy-duty swivel casters set on a rectangular frame with cross bracing), and a hinged wooden lid. Wooden lid shall be 5/8" MDF covered with a black, durable laminate or 5/8" A-A-faced, sanded smooth, void-free plywood with no sharp edges or splinters (coat all raw plywood surfaces with 2 coats of satin finish polyurethane). Lids shall feature rounded corners with corner plates. Lid hinges shall be rust resistant brass or galvanized, low profile, bolted completely through lid and welded to the frame. Color of cart canvas shall be determined by the owner. LAUNDRY HAMPERS MUST HAVE BLACK CANVAS SIDES & BLACK PLYWOOD TOP.

Provide all required signage as indicated. Signage shall include custom signage that states the maximum load of all sets/categories, standard safety & operational signage, user warnings signage, etc. All signage shall be mounted to the walls as indicated and at easily readable heights AFF and in areas designated on the detail drawings (do not mount signage where it will be obscured or hidden behind permanent obstructions - curtains, doors, racks, J-guide system, etc.). Custom signage must be provided for all major areas such as counterweight rigging, motorized rigging, stationary rigging, inspections, etc. (see drawing details for exact types/styles and quantities to provide), shall include verbiage as indicated and shall require the contractor to coordinate with the project structural engineer for verification of loading info, etc. Standard safety signage shall be similar to that provided by most rigging equipment manufacturers (hand winch operation, manual counterweight system operation, motorized winch operation, dead hung rigging systems, etc.). Submit all intended signage sizes, text, loading, sign attachment methods, etc. to consultant for approval prior to fabrication. Signage to be permanently attached to the wall on all four corners with screws, bolts or other similar means (Tapcon or similar). Neither adhesive backed tape nor pressure sensitive backings are acceptable as the sole means of mounting the signage. Foam core signage is not acceptable.

referenced contractor shall provide for all instances of typical work indicated. All drawing notes may not appear or be referenced (16) and sleeves) for the overhead suspension of all indicated rigging sets where applicable. Ensure that beam clamps are installed properly, sit straight, even & level on each beam, have both hex bolt/lock nuts installed so that the beam clamps cannot "open up" or sag in the middle at the loading point. Beam clamps shall be rated for a WLL of 1,000 lbs. each. Beam clamps must captivate both sides of beam flanges. Verify flange dimensions and clearances prior to ordering any hardware. Provide a complete ProCyc System 3EZ Modular Cove Hard Cyclorama system with ProMatte flooring (cove cvcs attached to 17) walls). This includes, but is not limited to, hi-impact ABS/fiberglass composite panels (corner & vertical modules), attachment/assembly hardware, Durabond 90 joint compound, fiberglass joint tape, tapcon style screws, internal plywood/hardwood wall blocking & related coordination, vinyl ChromaKey green flooring material, no residue tape, surgical booties, ProCyc primer, ProCyc ChromaKey green paint (provide enough for two primer, two finish coats and additional as noted for owner's future use) and any additional and necessary hardware and tools to complete the installation as detailed and intended. The contractor shall be responsible for installation of cyc, finishing, priming, painting and verification of paint with chroma keying video system (for evenness of paintwork). Provide NW Displays & Exhibits Custom Largo style ABS black plastic storage case(s) with interior foam lining for the

ProMatte (and other) specialty studio flooring. Provide (1) case for each specific type of flooring; each custom sized for the flooring it is intended to store. See details sheets for complete case requirements. Verify all sizing parameters with ProCyc prior to case fabrication to ensure fit. Store case(s) per owner's instructions. Provide an eye bolt and bungee cord system for each case so that it can be stored in a vertical orientation. Verify all storage locations/orientations with owner. Provide Werner fiberglass stockr's platform step ladders as indicated and for the owner's use for accessing the studio grid.

GREEN ROOM STUDIO & PHOTO LAB RIGGING SYSTEM KEYED NOTES - CONTINUED:

Mark all ladders with block lettering for the owner's facility in two locations (identifying marks/nomenclature TBD by owner). Store all ladders per the owner's instructions (preferably near the stage). Provide wall hooks for ladder storage and install in locations as determined by owner. **REQUIRED COORDINATION:**

Coordinate the installation of the studio/photo lab rigging and other related system components with related trades and any (20) fireproofing material being applied to the roof steel and with the actual wall construction. This may require certain rigging equipment to be pre-installed to overhead structural steel prior to fireproofing application and wrapping individual components tightly and completely with multiple layers of Saran-Wrap in order to prevent the fireproofing material from getting inside sheaves, bearings, etc. This will require the preinstallation of the wood internal wall blocking and exact detailed layout documentation for grid installation after walls have been completed. The installing contractor shall be prohibited from simply scraping fireproofing material off structural beams in order to mount rigging system components without express written permission from all applicable parties, fire marshal, etc. Coordination of system installation as it regards the fireproofing of structural rigging beams shall be the sole responsibility of the installing contractor and may require additional and multiple trips to the jobsite not normally associated with a rigging system installation. See A & S series drawings for fireproofing intents and other applicable notes and requirements.

The rigging installer shall be responsible for the dressing of all cables as they relate to the stage rigging system and its related components. Coordinate the final dress of all cables with all related trades and the natural twist of the furnished and installed cable(s) to ensure that each cable dresses neatly and properly. All sets with swaqqed cable shall be dressed so that no part of any set or related items and hardware catch, snag or otherwise become caught on or interfere with any other rigging set, adjacent devices, walls, misc. conduits, HVAC ducting or supports or any other items. Cables must swag from grid iron or other related junction boxes down to battens in a similar manner to that which has been graphically depicted on the detail drawings. The intent is for the cable (when set is at its lowest stage location or in trim height) to begin to rise from the end of the batten up towards the related junction box without going below the batten (the batten should be the lowest elevation that the SO cable ever reaches). All swagged cabling must be strain relieved as indicated on the detail drawings at both the batten end and at the grid iron junction box. Cable dress requirements includes, but is not limited to, all moving electric SO power cabling (low and high voltage), flexible DMX or Network wiring, hanging microphone cables, control wiring, speaker wiring, projection screen power and low-voltage control cabling, AFC system cabling, etc. No SO cables shall be allowed to drag/droop on the floor. Cable lengths and swag is critical and shall be coordinated with all related parties/contractors at regular job meetings to ensure an acceptable installation. No swagged cables shall be allowed to be visible within the proscenium opening. All swagged cables shall dress to the end of their related batten and off stage.

MISCELLANEOUS:

Provide all scaffolding, lift platforms, chain motors, chain falls, block and tackle or other methods required to install all system components and hardware and as needed to safely complete the work outlined on these drawings and in the written specifications. Follow all OSHA procedures and recommendations as they pertain to this work and provide OSHA safety devices as required for all personnel. Protect floors, wall surfaces and related areas, all adjacent and nearby items, etc. during work.

Refer to the written specifications & detail drawings for additional scope of work as it regards labeling. Labeling requirements outlined in the written specifications are extensive and detailed.

impossible due to limited access, etc., the contractor must provide a full set of date/time stamped digital photos that prove the extent and quality of his work. Field verify and document all existing structural steel locations & dimensions, all HVAC & MEP devices and the exact steel

layout over the house/stage prior to the creation of submittal shop drawings and installing any rigging system components. Detail on precisely dimensioned shop drawings all field verified devices, equipment and other misc. elements as it relates to the new rigging systems equipment, intended layouts, proper clearances, etc. This should include documentation of any field vs. drawing discrepancies, any custom parts needed and all misc. metal necessary to install system as designed and/or any required digressions from the design document intents based upon these field verified dimensions. The intent is to accurately measure and document all equipment, locations, elevations, structural elements, etc. prior to submission of shop drawings and system installation. The contractor shall be solely responsible for all additional costs associated with preparing and submitting additional stamped shop drawing sets based upon unverified field discrepancies, faulty field information or

post-submission discovered site conditions that preclude the installation intents.

Field verify, prior to the creation of submittal shop drawings and installing any rigging system components, that the existing structural steel is plumb, level and that there is no twisting or bending of any of the structural rigging beams or other signs of a potential structural issue (for all steel being used to attach designed rigging devices to - house or stage). Any discovered issues or problems with the existing structural steel shall be documented with digital photos, verified with detailed and precise field measurements and marked on a simple diagram drawing. This information shall then be communicated to the owner, architect, construction manager, consultant and project structural engineer in writing at the contractor's earliest convenience (early during site demolition and/or building erection/rough-in phases) prior to shop drawing creation and to any rigging system installation work being performed on the site in order to obtain further instructions on how to proceed. The contractor shall not be responsible for existing damage to structural steel or for additional items needed in order to remedy any structural related issues except at additional cost to the owner beyond the original scope of work.

MODEL NUMBERS:

Manufacturer model numbers for products are indicated on drawings to provide a full understanding of the system functional intent. See written specifications and the project manual for additional information and requirements for substitutions and procedures.

Provide all misc. Green Room studio and Photo Lab accessories as indicated.



schedule

Provide ETC "centering" & SSRC "stiffener" strap style brackets (if not provided by others) in types and quantities as indicated indicated (do not provide "empty" connector strip brackets in locations where connector strips do not occur). All pipe-over-pipe stage electrics or projection screen sets shall be mounted directly from lift lines via Nicopress closure & thimble to load rated turnbuckle to full brackets (effectively transferring bottom pipe/pipe-over-pipe stage electric/projection screen ladder system loads directly to lift lines). Provide manufacturer brackets for all term box locations where required. Where standard manufacturer brackets will not work, provide custom SSRC brackets to match required brackets with additional holes, etc. as needed. No contractor manufactured, non load-rated brackets shall be allowed.



Provide Anvil International 3/8" standard duty, carbon steel beam clamp Fig. 133 series style beam clamps (with grade 8 bolts

In any locations where the contractor has performed work and future access to inspect and/or maintain that work is unlikely or

blocking, etc. as is required. Provide all blocking in locations as required. Provide all blocking and install on the wall erector's

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CONSTRUCTION DOCUMENTS























14'-2" 3/4" With (1) Whithwind W/12GA (2) Whithwind W/12GA	12'-10 1/2" 14'-2" 1.25" With 3/4" With (1) Whickwind W12GA
	(3) Whirlwind W12GA
	To AR1
	2'-0" 2'-0"
	S + 1" With
	3/4" With (1) Whirlwind W12GA To AR1

UPPER LEVEL SOUND PLAN - AREA 3 TS304 ^{1/4" = 1'-0"}











3 TS502	2 TS502	AUDIO RELATED REM NOTES, BUBBLE NOT TABLES, ELECTRICA OTHER INFORMATION SERIES I









CONSTRUCTION DOCUMENTS







(1) Blackmagic HyperDeck Extreme 4K HDR and(1) Blackmagic HyperDeck Extreme Control	
(2) Blackmagic HyperDeck Extreme 4K HDR	
Blank Panel	
Luxul AMS-2624P	
Blank Panel	
Crestron HD-PS622	
Blank Panel	
Blank Panel	
Mid Atlantic UPS-1000R	
	AR2 - Middle Atlantic DTRK14-22 Located In The Control Room. Provide With All Blank Panels, Vent Panels and Custom Panels As Shown.

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Shure UA844SWB (2) Shure QLXD4 (2) Shure QLXD4 ClearCom PS-704 Blank Panel Behringer P-16D Brush Panel Midas DL-16 Brush Panel

Rack Drawer

Mid Atlantic UPS-1000R







(3) VIDEO CAMERA MOUNTING DETAIL SCALE: 3" = 1'-0"









ELECTRICAL SCOPE OF WORK (RELATED TO THE AV SYSTEMS):

All Work Shall Conform To The Standards Of Division 26 Specifications And Spec Section 19 1000:

The Contractor shall provide (provide means to furnish and install) all conduit, duplex or **POWER SYSTEM DRAWING NOTES**: guad outlets and related faceplates, multiple device boxes, miscellaneous hardware and all installation labor to provide complete conduit layouts and control, line and load circuits/runs Each note indicates a typical location for the type of work to be performed or equipment to as indicated. The Contractor shall carefully consult each drawing in order to obtain exact be provided. The contractor shall provide for all instances of typical work indicated. All delineation of his responsibilities as it pertains to provision of equipment, installation of drawing notes may not appear or be referenced on each drawing; however, all notes still equipment for others, assembly and wiring of equipment furnished by others and other apply to the work indicated within each note and shall be performed by the referenced necessary installation labor as noted in detail on these drawings and in the written contractor(s). specifications. All devices shown on the drawings are indicated in approximate locations. The Contractor shall coordinate the exact locations of all devices shown with the owner, Failure by the contractor to adhere to any of the specific notes on these drawings shall existing obstructions and any other A/V related items that they may need to be located result in the contractor repairing, replacing or reinstalling extensive system components, near or in conjunction with. The Contractor shall determine all final locations prior to routing conduit, wire or related items at his own expense and at no additional cost to the owner in or installing any conduit or backboxes.

BOXES, CONDUIT & WIRE:

The Contractor shall provide no wiring run in conduit unless specifically noted on the plan drawings as otherwise. No conduit shall be allowed to be loaded beyond 50% fill.

The Contractor shall terminate all conduits into racks, junction boxes, pull-boxes or other appropriate devices as indicated. No cut off conduits with end bushings and wiring dangling out the end shall be allowed.

The Contractor shall refer to all notes, drawing arrow notes and written specifications for work clarification and additional scope of work as it regards assembly, installation labor, labeling requirements and/or coordination. Labeling requirements outlined in the written specifications are extensive and detailed.

Labeling All conduits shall be clearly labeled on each end as to their origin and destination in a simple, logical manner. All junction boxes, switch boxes and backboxes indicated on drawings shall be labeled with the nomenclature indicated on the drawings. All outlet boxes shall be labeled with the corresponding panel and circuit designations they are fed from. Permanent black marker on conduit or junction box face is acceptable on conduits, junction boxes, etc. that will not be painted. If any related devices are to be painted, then the Contractor shall provide the following: Conduits shall be labeled with 3M Durable ID Labels with permanent adhesive (applied after painting). Junction boxes, etc. shall be labeled with 3M Durable ID Labels with permanent adhesive (except stage devices, which shall be labeled with Lamacoid style engraved labels, permanently adhered to the device). All junction boxes, outlets, etc. shall also be labeled by the Contractor on the back of each cover plate and also with a durable tag inside each box stating the same information. All labeling shall be done with neat, simple, easily readable, block style lettering/numbering (labeling may be done by hand, if the labeler's handwriting is neat and legible. If not, then all labeling must be done by laser printing onto indicate labels). All labeling shall reference the device's designation, conduit originations/destinations, etc. & not be a coded, indexed or legend style referencing system. The Contractor shall provide printed documentation to all related contractors as to the source, destination, elbows/sweeps, pull box locations, approx. run distances and routing of related conduits throughout building as part of normal coordination on the project. Labeling shall be done in neat, easily readable, block style

The Contractor shall provide blank cover plates for any switch box or junction box that does not have a specific device plate indicated on the drawings symbols keys. All cover plates shall be provided in a color and style that matches other cover plates in the immediate vicinity of the indicated device or as determined by the owner. Cover plates shall be "form fitting" and shall not have sharp edges that protrude out past edges of backboxes.

letters/numbers. Locate internal labels to prevent damage/smudging, etc.

All conduits are to be concealed unless specifically called out on drawings as exposed. Any visible conduits and boxes are to conform to general contract requirements and Division 16 for finish and installation requirements.

Back-to-back outlets in common walls shall not be permitted. All outlet boxes shall be separated by at least one stud bay/cavity.

Note - All circuits are required to have separate hot and neutral conductors. Provide ground wiring as required by applicable code. All circuits shall be calculated for full rated loads, constant duty non diversity unless otherwise specified. Size wire gauges and conduit sizing to allow for full load operation after taking into account all derating for distance, voltage drop and other conditions required by the most recent national electric code (NEC), the New York State building codes and local codes.

The Contractor shall provide continuous pull strings (for future use) in all conduits even after all indicated wire is pulled in.

Where conduit is indicated with no wire called out on the plan drawings, The Contractor shall provide the conduit wire based on requirements of the systems indicated on single line system diagrams The Contractor shall provide continuous pull strings in all empty conduits, tied off at both ends. Wire must be able to be pulled through the conduits without exceeding the pull spec of the wire to be pulled. Typical pulling tension for cables of this type is between 35 and 50 lbs. tension.

Wiring Standards - Plenum Rated Cable: Unless specifically noted on the drawings, all low voltage wiring is to be CL2/CL3 wiring. Where specific plenum conduits exist it has been noted to use a plenum rated cable. Where wiring runs occur in concealed spaces - walls, ceilings, etc. - and are not enclosed in conduit the Contractor must verify the space is not being used as a plenum path. Any areas encountered that are plenums must have plenum cable or the wiring must be contained in conduit rated for the plenum application. Field verify conditions prior to ordering or installing cabling.

Contractor must provide adequate attachment and support to protect the cable from exiting racks to ensure that airflow passes through racks as intended by manufacturers. potential damage using the best routing. Wiring may not be left lying loose in any area uplose fully protected on the bid damage using the best routing. Wiring may not be left lying loose in any area uplose fully protected on the bid damage using the best routing. unless fully protected (i.e. Inside a wall).

The Contractor shall radius all conduits where possible. Conduit runs are not to exceed 270 degrees of radius bend. Where elbows and pull boxes are unavoidable, locate these in in which case the consultant shall choose the final locations and indicate this in writing easily accessible locations not requiring special equipment to reach. Any elbows used prior to their installation). must be sweeps and must be accessible without the use of special equipment. If more than 270 degrees of bend is required, The Contractor shall provide accessible pull boxes.

The Contractor shall provide all power circuits indicated on TS drawings and associated conduit, backboxes, wire, termination and duplex outlets. Termination of these outlets will be to panel boards as indicated on E-series drawings. These outlets may also be indicated on E series drawings. Check TS and E drawings and verify there is no duplication of devices. Some outlets are to be installed in racks - coordinate with the contractor for exact locations within each rack.

The Contractor is responsible for fire stopping all penetrations in new and existing fire rated assemblies resulting from the work of his contract.

order to bring the installation up to the standards and intents set forth in these contract documents.

> Branch circuits indicated are for the dedicated use of the specified system:No A) other connections may be made or branches added to these circuits. Each circuit must have a separate hot, neutral, and ground conductor. Conduit grounds are not acceptable for these circuits. All wire to be THHN Stranded with Gauge as required by NEC. All grounds to be #12 minimum THHN Stranded copper. Where ISO ground panels are provided the THHN ground wire will be utilized for ISO ground. Building ground to switch boxes on ISO ground circuits as required by

Neutrals and grounds may not be shared with any other circuits.

The branch circuits indicated are to be installed as indicated. The EC shall coordinate with the appropriate contractor where connections are to be made within racks and equipment furnished by others to provide well timed construction progress.

All indicated circuits shall be individual, independent, home-run circuits to a panel/breaker box as indicated on the E series drawings (unless otherwise noted or indicated as being paralleled with another). Provide circuits in voltage, wattage, phase and amperage and land/terminate each circuit into a backbox or other

shall still be responsible for providing the circuit to a panel designated by the electrical engineer for the project. Typically this panel will be within 150 feet of the branch circuit location.

C) backboxes so that the cover/face plates do not protrude beyond the box edges. All outlet boxes to be Thomas & Betts AFS style boxes or equivalent size. Any boxes that are smaller than the cover/face plate will not be accepted. The intent is for faceplate to be the same size as the backbox in order to prevent sharp or protruding edges that could catch or snag clothing, etc. or cause injury.

 \sum The Contractor shall be responsible for providing an appropriate contact closure **D**) feed from the facility's fire alarm system including, but not limited to, wire, conduit, / any existing system fire alarm device accessories and triggers needed, fire alarm manufacturer field service technician and related expenses, firestop material to infill firewall penetrations, misc. metal and hardware and all installation labor required to complete the installation and interfacing of this system to the sound system DSP. The contractor shall obtain fire alarm tie in wire type per fire alarm system manufacturer's recommendations and shall provide this wiring to the DSP unit and terminate as indicated. The Contractor shall be responsible for contacting and interfacing with the local fire marshall and other appropriate official personnel,

Provide the fire alarm tie to the DSP unit as specified. The intent is for fire alarm □) triggers (as determined by the owner and applicable codes - i.e. auditorium and building wide triggers, etc.) to be routed from the corresponding contact closure(s) and controls in the main fire alarm system control panel to the DSP unit as needed in order to trigger the DSP to mute during all appropriate fire alarm activation events. Any additional assistance needed from the existing fire alarm service provider company in order to interface with their system shall be arranged in

& critical and may not be altered in the field without obtaining prior written permission from the consultant. Any new proposed locations or field obstructions must be communicated to the consultant in writing and clearly indicated on scaled plan drawings by the contractor. In some areas wiring may be called out as CL3 not in conduit. In these areas the Contractor shall properly & completely seal all wall & floor conduit penetrations entering or those indicated on the bid documents or approved in writing post bid will be removed and reinstalled in the correct locations in an as new manner by the contractor at no additional

All locations & clearances shown for the sound system & other related devices are specific

cost to the owner (unless obstructions are present which precludes the indicated locations,

Device	Description	Box Size	Mounting
d XX"	Indicates conduit size and/or wire runs		
×x	Homerun to device		
	Audio Racks 19" EIA - for Specific Rack Information See		
Ø	Power - Duplex Outlet- 20A-120VAC	1 Gang	Mount At Standard Electrical Outlet Height, In Racks Or As Indicated
PA	Custom Plate With Whirlwind MIP2 And Decora Knockout For QSC Axiom BT-1	2 Gang	Flush Mount To Face Of Bleacher
S	Plate with Grommet For Speaker Cable Exit	1 Gang	Surface Mounted To Bottom Of Structural Steel As Indicated

Device	Description	Box Size	Mounting
d XX"	Indicates conduit size and/or wire runs		
XX	Homerun to device		
	Audio Racks 19" EIA. See CTE TS501 For Details		
Ø	Power - Duplex Outlet- 20A-120VAC	1 Gang	Mount At Standard Electrical Outlet Height Or As Indicated
\bigotimes	Power - Quad Outlet- 20A-120VAC	2 Gang	Mount At Standard Electrical Outlet Height Or As Indicated
MM	Cover Plate with (4) XLR-F and (2) Neutrik Ethercon Connectors	3 Gang	Mounted to Custom SSRC Raceway
CC1	Cover Plate with (3) Neutrik BNC Connectors and (1) Neutrik XLR-M Connector	3 Gang	Mounted to Custom SSRC Raceway
IC4	Whirlwind AVL-IC4	Extron SMB111	Surface Mounted On Countertop As Indicated
JB	6x6x4 Screw Cover Style Junction Box	2 Gang	Mounted At As Indicated
VC	Decora Plate With Neutrik CAT-6A Ethercon Insert And Crestron HD-TX-4KZ-101-1G-B	2 Gang	Surface Mounted At As Indicated
VM	Plate With Shielded CAT-6A	1 Gang	Surface Mounted At As Indicated
BL	FSR IPS-WP1Q With (6) FSR B010D	4 Gang	Mounted to Custom SSRC Raceway
WC	Crestron MPC3-102-B	1 Gang	Flush Mounted At Std Switch Height
RJB	6x4x4 Screw Cover Style Box		Flush Mount Behind Custom SSRC Raceway
 	Custom SSRC H/L-V Raceway. See TS Drawings For Length As Required		Surface Mounted At As Indicated

Architect.

Where An Existing Back Box And Conduit Patch Can Be Reused, Verify With The Owner/Owner's Representative Before Reusing The Location. NOTE:

if needed, in relation to the addition and the interfacing of the DSP contact with the fire alarm system.

conjunction with the owner and paid for by the contractor.

See E series drawings for panel designations and origination. Do not duplicate circuits. device as indicated.

If a circuit designated does not appear on the E series panel schedules, the EC

The contractor shall provide all backboxes in sizes as indicated. No multi-gang B) backboxes with raised, tile ring, extension ring or mud ring style reducers to obtain the specified faceplate gang size shall be acceptable in lieu of the indicated device backbox. Any multi-gang devices with these extension rings used shall be replaced and the specified backbox sizes provided by the contractor at no additional cost to the owner. The contractor shall install all backboxes flush, plumb and level.

 \sum The contractor shall provide all surface mounted outlet boxes as full-sized

GYMNASIUM SYMBOLS KEY

VIDEO SYMBOLS KEY

Note: All References To "Standard Electrical Outlet Height" And "Standard Switch Height" Are Intended For The Installing Contractor To Mount These Devices To Match These Mounting Heights With Any Existing Or Adjacent Devices On Site.

All Device Backboxes Shall Be Flush Mounted Unless Otherwise Noted On The Drawings. If Building Construction Makes Flush Mounting Impossible Or Impractical, Then The EC Shall Obtain Written Permission & Instructions From The Architect (Including Specific Device Types, Conduit/Wiremold Types, Required Painting, Sizes, Profiles, Etc.) Prior To Installing Any Surface Mounted Devices (This Is Excepting Devices Such As GIJB's, JB's, Pull Boxes, Etc. Mounted To Stage Or Other Overhead Steel).

Where Boxes Are Indicated As Surface Mounted, Wiremold Style Boxes Shall Be Utilized, Painted To Match Mounting Surface Or As Directed By

All Backboxes Shall Be 3.5" Deep With Internal Square Edges. No Backboxes With Rounded Or Radiused Corners Shall Be Acceptable. Where Mounting Brackets Are Required, The EC Shall Provide Appropriate Brackets As Needed To Mount To Studs, Wall, Etc. No Contractor Fabricated Mounting Systems Shall Be Acceptable. The EC Shall Read All Drawing Notes For More Information On Backbox Styles, Types, Etc. Required. The Contractor Shall Provide The Owner With Actual Sized Paper Template Copies Of Station Faceplates That Are Part Of This Project, Which The

Owner Shall Then Tape On The Walls In The Final Desired Locations For All Architectural Control Stations. The EC Shall Not Install Any Related Conduit Or Backboxes Until Final Locations Have Been Determined By The Owner. No Stations Shall Be Allowed To Exist In Areas Or Locations Where They Conflict With Other Devices, Are Buried Behind Other Devices, Block Access To Life-Safety Devices, Are Tucked Into Inaccessible Corners Or Are Otherwise In Impractical, Out-Of-The-Way Locations.

Standard Switch Height Typically Is 48" To The Top Of Box. Standard Outlet Height Is Typically 20" To Top Of Box.

Where Existing Switches Or Outlets Are Located In The Vicinity Of New And Are Mounted At Different Heights, Verify Design Height With The Owner/Owner's Representative Prior To Rough In.

It is each contractor's responsibility to receive all device shipments, equipment, deliveries, etc. for their own equipment on/at the job site personally. This will require each contractor to carefully coordinate drop-ship delivery dates with the manufacturers and trucking companies in order to have adequate

personnel on site to inspect, unload and store all shipments. Each contractor shall be responsible to arrange for storage of all received materials on site until the appropriate time when he shall either turn them over to installing contractor or install them himself. If the contractor chooses to allow a third party to receive shipments on his behalf, then that contractor bears sole responsibility for any missing and/or damaged parts and devices that may need to be reordered or rush freight required to maintain schedule, all at no additional cost to the owner.

Any equipment that is furnished by the receiving contractor but installed by others shall be turned over to the installing contractor at such time as it fits into their production schedule and the project's overall construction schedule.

GENERAL NOTES:

Do not scale plans.

Obtain shop drawings from related trades to verify the intended configurations and sche contractor is responsible for coordinating their work with other related trades in a mann work and scheduling.

Do not scale plans.
Field verify all dimensions before ordering material or performing any work. Location of all devices must be coordinated with existing and/or new architectural, mechanical, electrical and structural elements. Where conflicts occur contact the architect, construction manager and consultant in writing for clarification before performing any work.
Where work is critically dimensioned to work provided by others it is the sole responsibility of the contractor to verify the intended location of other elements with other contractors by reviewing their shop drawings.
Coordinate all work for symmetrical installation with relation to height and level with architectural elements, switches, outlets, and other controls.
This drawing represents the configuration of a system. It does not in any way constitute instructions for installation except with regards to configuration. The sole responsibility for field verification of dimensions, installation/fabrication methods, code conformance, safety issues, and the quality and performance of their work shall be that of the installing contractor.
This drawing is to be interpreted in conjunction with other drawings in the construction set as well as written specifications for this project. The contents of the drawing do not in any way negate the written specifications, nor do the written specifications in any way negate the contents of the drawings.
If there are inconsistencies between written specifications and drawings or between any drawing and other drawings in the construction document set it is the responsibility of the contractor to obtain clarification before bidding this project. If no clarification has been obtained prior to bid the contractor will abide by the decision of the architect and consultant at no additional cost to the owner even if work has to be redone.
Obtain shop drawings from related trades to verify the intended configurations and scheduling of their work. The contractor is responsible for coordinating their work with other related trades in a manner that avoids conflicts of work and scheduling

