DATE: May 30th, 2022

TO: 911 Emergency Response Advisory Committee

FROM: Cody Shadle, Manager, City of Reno Public Safety Dispatch shadlec@reno.gov 775-334-2370

THROUGH: Jason Soto, Chief of Reno Police Department

SUBJECT:PRIMARY PSAP (Public Safety Answering Point), CITY OF RENO PUBLIC SAFETY DISPATCH PUBLIC SAFETY CENTER DISPATCH INFRASTRUCTURE CONSTRUCTION for [For Possible Action] - A review, discussion and possible action to approve, deny or otherwise modify a request to fund the costs associated with the purchase and installation of independent and isolated electrical infrastructure, including an electrical backup generator and uninterruptible power system (UPS) to directly support and connect radio, telephone and CAD (computer aided dispatch) equipment for Reno Public Safety Dispatch's new location within the Public Safety Center for a cost not to exceed $905,000.00.

SUMMARY

PRIMARY PSAP (Public Safety Answering Point), CITY OF RENO PUBLIC SAFETY DISPATCH PUBLIC SAFETY CENTER DISPATCH INFRASTRUCTURE CONSTRUCTION for [For Possible Action] - A review, discussion and possible action to approve, deny or otherwise modify a request to fund the costs associated with the purchase and installation of independent and isolated primary and backup electrical infrastructure, including an electrical backup generator and uninterruptible power system (UPS) to directly support and connect radio, telephone and CAD (computer aided dispatch) equipment for Reno Public Safety Dispatch's new location within the Public Safety Center for a cost not to exceed $905,000.00. This system will allow the Reno Public Safety Dispatch's new center to accommodate an expanded dispatch environment to include additional dispatcher positions and operate as a redundant backup location.

NRS APPLICABLE:

NRS 244A.7645 Provides approval of costs associated with maintenance, upgrade and replacement of equipment necessary for the operation of the enhanced telephone system.

STAKEHOLDER REVIEW(s)

Stakeholders are the three primary Public Safety Answering Points (PSAP) – City of Reno Public Safety Dispatch, Sparks Emergency Communications and Washoe County Sheriff's Office Communications.

PREVIOUS ACTION&BACKGROUND

Washoe County Regional 911 Emergency Response Advisory Committee 5 Year Master Plan states "The renovation and construction plan for each of the three emergency communications

operations will create a mutually beneficial triangle configuration." The construction plan for Reno Public Safety Dispatch includes the relocation and development of a new Dispatch center. This will eliminate the potential impact of a singular event compromising two PSAPs (Washoe and Reno) simultaneously while creating an additional redundant location to allow for increased capacity during an emergency event. To ensure the continuity of operations the Dispatch center requires stand-alone infrastructure that cannot be reliant on any other systems within the Public Safety Center at large, to include electrical primary and backup systems as required by NENA (National Emergency Number Association) and NFPA (National Fire Protection Association) standards.

On May 21st, 2020, the E911 Emergency Response Advisory Committee approved the funding for infrastructure improvements for Sparks Emergency Communications Center as follows:

Universal Power Supply: $27,000.00

Electrical Infrastructure: $70,000.00

Data Lines: $13,000.00

FISCAL IMPACT

The Enhanced 911 Fund is a special revenue fund which receives revenue pursuant to NRS 244A.7643 in the form of telephone surcharges collected to support the emergency reporting system.

RECOMMENDATION

It is recommended that the E911 Emergency Response Advisory Committee approve the request to fund the costs associated with the purchase and installation of independent and isolated primary and backup electrical infrastructure for the City of Reno Public Safety Dispatch (PSAP) for a cost not to exceed $905,000.00.

POSSIBLE MOTION

Move to approve the recommendation that the E911 Emergency Response Advisory Committee approve the request to fund the costs associated with the purchase and installation of independent and isolated primary and backup electrical infrastructure for the City of Reno Public Safety Dispatch (PSAP) for a cost not to exceed $905,000.00.

June 4, 2022

911 Emergency Response Advisory Committee

RE: Public Safety Center – Dispatch Construction Cost Confirmation

To E911 Committee,

The purpose for this letter is to clarify and confirm the costs directly related to construction for the Dispatch space in the Public Safety Center project.

The City of Reno opened bids for remodel of the property at 911 Kuenzli Street (Public Safety Center) on August 4th, 2021. The lowest responsive and responsible bid was by Plenium Builders. The bid proposal included a breakdown of prices for the base bid, which included the demolition of existing features, foundation and structural upgrades, build back of tenant improvements, along with bid alternates for site improvements, Evidence improvements, and Dispatch improvements. Bid prices submitted are lump sum for the areas indicated. Bid prices typically aren't broken down any further by the contractor. Bid prices received were higher than estimated, therefore the project was phased to complete sections according to available funding. Reno City Council awarded a construction contract on October 13th, 2021 to Plenium Builders for demolition, foundation and structural upgrades and select materials procurement for the entire building. Exhibit A includes the bid proposal submitted by Plenium Builders for this contract.

Exhibit B is a letter to RPD Commander Larson from February 8th, 2022 regarding Public Safety Center – Dispatch Infrastructure Funding. City staff requested and received a bid level breakdown of construction costs from Plenium Builders, which was detailed in table with items 6a through 6h. Line item 6g shows the bid price for mechanical upgrades dedicated to Dispatch at the cost of $315,000. Exhibit C includes select sheets from the Mechanical Plans that have been marked up to show the HVAC improvements dedicated to Dispatch included in that cost. Line item 6h shows the bid price for electrical upgrades dedicated to Dispatch at the cost of $905,000. Exhibits D through F include select sheets from the Electrical, ITS, and Lighting Plans that have been marked up to show the electrical improvements dedicated to Dispatch included in that cost.

Additional work is to be awarded as funding becomes available.

Sincerely,

Justin George, P.E. | Associate Civil Engineer
Public Works | Capital Projects

EXHIBIT B

February 8, 2022

Commander Robert Larson
Reno Police Department
455 East Second Street
Reno, NV 89502

RE: Public Safety Center – Dispatch Infrastructure Funding

Dear Cmdr. Larson,

Below is a breakdown of the construction related costs for Dispatch located at the Public Safety Center and relevant to infrastructure located on the 911 Kuenzli Street parcel only. Please note there may be additional offsite costs not included in this list to establish Dispatch and 911 communication related infrastructure into the site.

Item	Description	Cost	Implementation
1	Xybix 911 Dispatch Workstations	$ 310,000	Sept.-Dec. 2023
2	Harris Dispatch Symphony Consoles	$ 2,000,000	June-Dec. 2023
3	IT network equipment, desktop computers, monitors (6 ea.), etc.	$ 83,000	Jan.-July 2023
4	Audio and video equipment	$ 25,000	June-Dec. 2023
5	Intrado 911 phone/routing service and equipment for relocation	$ 350,000	Prior to dispatch move
6	PSC Dispatch related construction costs	$ 2,000,000	**March 2022**
7	911 Microwave Radio Transmission system	$ 100,000	June-Dec. 2023
8	911 service agreements, contracts, reconfiguration	$ TBD	Prior to dispatch move
9	10% Contingency for unforeseen circumstances	$ 489,000	N/A
	Total	**$ 5,357,000**	

The PSC Dispatch construction costs include build out according to National Emergency Number Association (NENA), National Fire Protection Association (NFPA), various other jurisdictional code requirements, and design requests of Reno Dispatch. Below is a list that includes, but is not limited to, construction items required with Dispatch included in this facility:

	PSC Dispatch Construction Items	Cost
6a	General Conditions, Insurance and Bonding	$ 390,000
6b	Carpentry	$ 80,000
6c	Doors and windows	$ 70,000
6d	Finishes	$ 160,000
6f	Plumbing	$ 80,000
6g	HVAC	$ 315,000
6h	Electrical	$ 905,000

6b,c,d) Two hour fire ratings for walls, conduits, and other infrastructure into and out of Dispatch and related areas including MDF, IDF, and UPS rooms.
6b,c,d) Architectural special features such as EOC room, raised supervisor platform, etc.
6f) Restroom dedicated to Dispatch only, adjacent to dispatch floor.
6g) HVAC air handler and ducting dedicated to Dispatch only.
6h) Electrical generator dedicated to Dispatch only.
6h) Electrical panels, conduit, conductors and circuitry dedicated to Dispatch only.
6h) Electrical uninterruptible power system (UPS) and room dedicated to Dispatch only.

Sincerely,

Justin George, P.E. | Associate Civil Engineer

EXHIBIT C

MECHANICAL SYMBOL LIST

NOTE: THIS IS A MASTER SCHEDULE. NOT ALL SYMBOLS CONTAINED HEREIN MAY APPEAR ON THE DRAWINGS.

- (X) — ITEM TO BE REMOVED
- POINT OF CONNECTION/DISCONNECTION
- SHEET NOTE
- REVISION NUMBER
- TAG / UNIT — EQUIPMENT MARK
- TAG / CFM — DIFFUSER TAG
- ACCESS PANEL
- SUPPLY AIR DUCT UP/DOWN
- RETURN AIR DUCT UP/DOWN
- EXHAUST AIR DUCT UP/DOWN
- RETURN GRILLE
- EXHAUST GRILLE
- 4-WAY BLOW SUPPLY DIFFUSER
- 3-WAY BLOW SUPPLY DIFFUSER
- 2-WAY BLOW SUPPLY DIFFUSER
- 1-WAY BLOW SUPPLY DIFFUSER
- AIRFLOW DIRECTION
- --"Ø — ROUND DUCTWORK (INCHES)
- --"X--" — RECTANGULAR DUCTWORK (INCHES)
- ROUND FLEXIBLE DUCT
- SQUARE TO ROUND TRANSITION
- SINGLE LINE RIGID DUCT
- SINGLE LINE RIGID DUCT (ACOUSTICALLY LINED)
- DOUBLE LINE RIGID DUCT
- DOUBLE LINE RIGID DUCT (ACOUSTICALLY LINED)
- EXISTING DUCTWORK
- FIRE DAMPER
- SMOKE DAMPER
- FIRE/SMOKE DAMPER
- MOTORIZED DAMPER (OPPOSED BLADE TYPE)
- MOTORIZED DAMPER (PARALLEL BLADE TYPE)
- BACKDRAFT DAMPER
- MANUAL VOLUME DAMPER
- RVD — REMOTE VOLUME DAMPER
- SD — SMOKE DETECTOR
- T — THERMOSTAT
- H — HUMIDISTAT
- S — SENSOR
- CO2 — CARBON DIOXIDE SENSOR
- CO — CARBON MONOXIDE SENSOR
- BOILER EMERGENCY SHUT-DOWN
- U — DOOR UNDERCUT
- FS — FLOW SWITCH

- CHR — CHILLED WATER RETURN PIPING
- CHS — CHILLED WATER SUPPLY PIPING
- CR — CONDENSER WATER RETURN PIPING
- CS — CONDENSER WATER SUPPLY PIPING
- HWR — HEATING WATER RETURN PIPING
- HWS — HEATING WATER SUPPLY PIPING
- RL — REFRIGERANT LIQUID PIPING
- RS — REFRIGERANT SUCTION PIPING
- CD — CONDENSATE DRAIN PIPING
- PC — PUMPED CONDENSATE DRAIN PIPING
- CIRCUIT SETTER
- 2-WAY ELECTRONIC CONTROL VALVE
- 3-WAY ELECTRONIC CONTROL VALVE
- 2-WAY PNEUMATIC CONTROL VALVE
- 3-WAY PNEUMATIC CONTROL VALVE
- SOLENOID VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- BALL VALVE
- CHECK VALVE
- GATE VALVE
- HOSE END DRAIN VALVE
- PRESSURE REDUCING VALVE
- RELIEF VALVE
- TEMPERATURE PRESSURE RELIEF VALVE
- THERMOMETER
- PRESSURE GAUGE WITH GAUGE COCK
- MANUAL AIR VENT
- PRESSURE TEMPERATURE PORT
- Y-STRAINER WITH BLOWDOWN
- PIPE GUIDE
- UNION
- PIPE ANCHOR
- FLEXIBLE CONNECTOR
- PIPE CAP/STUB-OUT
- DIRECTION OF FLOW
- PIPE DOWN
- PIPE UP
- PIPE TEE UP
- PIPE TEE DOWN

MECHANICAL ABBREVIATIONS

NOTE: THIS IS A MASTER SCHEDULE. NOT ALL ABBREVIATIONS CONTAINED HEREIN MAY APPEAR ON THE DRAWINGS.

AABC	AMERICAN AIR BALANCE COUNCIL
ACD	AUTOMATIC CONTROL DAMPER
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
BFD	BACKFLOW PREVENTION DEVICE
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSE POWER
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CHAR	CHARACTERISTICS
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
D	DRAIN
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
(E)	EXISTING TO REMAIN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
°F	FAHRENHEIT
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FSD	FIRE/SMOKE DAMPER
GA	GAGE OR GAUGE
GAL	GALLONS
GPM	GALLONS PER MINUTE
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HD	HEAD
HP	HORSEPOWER
HR	HOUR
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
IBC	INTERNATIONAL BUILDING CODE
IMC	INTERNATIONAL MECHANICAL CODE
IPC	INTERNATIONAL PLUMBING CODE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MVD	MANUAL VOLUME DAMPER
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEBB	NATIONAL ENVIROMENTAL BALANCING BUREAU
NEC	NATIONAL ELECTRIC CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OED	OPEN END DUCT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSID	POUNDS PER SQUARE INCH DIFFERENTIAL
PSIG	POUNDS PER SQUARE INCH GAUGE
(R)	EXISTING TO BE RELOCATED
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RL/S	REFRIGERANT LIQUID/SUCTION
RPM	REVOLUTIONS PER MINUTE
RPPA	REDUCED PRESSURE PRINCIPAL ASSEMBLY
RVD	REMOTE VOLUME DAMPER
SA	SUPPLY AIR
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
"SP	STATIC PRESSURE (INCHES OF)
SPECS	SPECIFICATIONS
SQ	SQUARE
SQFT	SQUARE FEET
SS	STAINLESS STEEL
T	TEMPERATURE
TAB	TEST AND BALANCE WORK AND REPORT
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UMC	UNIFORM MECHANICAL CODE
UON	UNLESS OTHERWISE NOTED
UPC	UNIFORM PLUMBING CODE
V/PH/HZ	VOLTAGE/PHASE/HERTZ
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
(X)	EXISTING TO BE REMOVED

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	PERMIT ISSUE DATE: 3/14/2021	PLAN REVIEW DATE: 4/27/2021	ISSUED FOR CONSTRUCTION DATE: 11/08/2021	: : :	: : :
M001	MECHANICAL SYMBOL LIST, ABBREVIATIONS AND DRAWING INDEX	●	●	●		
M021	OVERALL FIRST LEVEL MECHANICAL DEMOLITION FLOOR PLAN	●				
M021A.1	PARTIAL FIRST LEVEL MECHANICAL DEMOLITION FLOOR PLAN - AREA 'A'	●				
M021B.1	PARTIAL FIRST LEVEL MECHANICAL DEMOLITION FLOOR PLAN - AREA 'B'	●				
M021B.2	PARTIAL FIRST LEVEL MECHANICAL DEMOLITION PIPING PLAN - AREA 'B'	●				
M022.1	OVERALL SECOND LEVEL MECHANICAL DEMOLITION FLOOR PLAN	●	●			
M022.2	OVERALL SECOND LEVEL MECHANICAL DEMOLITION PIPING PLAN	●				
M023.1	OVERALL THIRD LEVEL MECHANICAL DEMOLITION FLOOR PLAN	●				
M023.2	OVERALL THIRD LEVEL MECHANICAL DEMOLITION PIPING PLAN	●				
M060	MECHANICAL DEMOLITION ROOF PLAN	●				
M201.1	OVERALL FIRST LEVEL MECHANICAL FLOOR PLAN	●				
M201.2	OVERALL FIRST LEVEL MECHANICAL ZONING PLAN	●	●			
M201A.1	PARTIAL FIRST LEVEL MECHANICAL FLOOR PLAN - AREA 'A'	●	●			
M201B.1	PARTIAL FIRST LEVEL MECHANICAL FLOOR PLAN - AREA 'B'	●	●	●		
M201A.2	PARTIAL FIRST LEVEL MECHANICAL PIPING PLAN - AREA 'A'	●				
M201B.2	PARTIAL FIRST LEVEL MECHANICAL PIPING PLAN - AREA 'B'	●				
M202.1	OVERALL SECOND LEVEL MECHANICAL FLOOR PLAN	●	●			
M202.2	OVERALL SECOND LEVEL MECHANICAL PIPING PLAN	●				
M203.1	OVERALL THIRD LEVEL MECHANICAL FLOOR PLAN	●		●		
M203.2	OVERALL THIRD LEVEL MECHANICAL PIPING PLAN	●				
M301	OVERALL FIRST LEVEL PHASING PLAN	●	●	●		
M301.1A	PARTIAL FIRST LEVEL PHASING PLAN - AREA 'A'	●	●	●		
M301.1B	PARTIAL FIRST LEVEL PHASING PLAN - AREA 'B'	●	●	●		
M302	OVERALL SECOND LEVEL PHASING PLAN			●		
M303	OVERALL THIRD LEVEL PHASING PLAN	●	●	●		
M360	OVERALL ROOF LEVEL PHASING PLAN	●	●	●		
M600	MECHANICAL ROOF PLAN	●				
M800	MECHANICAL DIAGRAMS	●				
M801	MECHANICAL DIAGRAMS	●				
M802	BOILER PIPING DIAGRAM	●				
M803	CHILLER PIPING DIAGRAM	●				
M810	MECHANICAL CONTROLS	●				
M811	MECHANICAL CONTROLS	●		●		
M812	MECHANICAL CONTROLS	●				
M813	MECHANICAL CONTROLS	●				
M814	MECHANICAL CONTROLS	●	●			
M815	MECHANICAL CONTROLS	●				
M816	MECHANICAL CONTROLS	●	●			
M817	MECHANICAL CONTROLS	●				
M818	MECHANICAL CONTROLS	●	●			
M819	MECHANICAL CONTROLS	●				
M820	MECHANICAL CONTROLS	●	●			
M821	MECHANICAL CONTROLS	●				
M822	MECHANICAL CONTROLS	●				
M823	MECHANICAL CONTROLS	●				
M824	MECHANICAL CONTROLS	●				
M825	MECHANICAL CONTROLS	●				
M900	MECHANICAL SCHEDULES	●				
M901	MECHANICAL SCHEDULES	●	●	●		
M902	MECHANICAL SCHEDULES	●		●		
M903	MECHANICAL VENTILATION CALCULATIONS	●				
M904	MECHANICAL IECC CALCULATIONS	●				
	TOTAL	51	16	12		

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11/08/2021

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Reno, NV 89502
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msa-ec.com
R19061

PUBLIC SAFETY CENTER

911 KUENZLI STREET - RENO, NV

ISSUED FOR PERMIT
03/14/2021

ISSUED FOR BID
04/27/2021

ISSUED FOR CONSTRUCTION
11/08/2021

Revisions :

1 04/27/2021: PLAN REVIEW

2 11/08/2021: ISSUED FOR CONSTRUCTION

Sheet Title :
MECHANICAL SYMBOL LIST, ABBREVIATIONS AND DRAWING INDEX

project no: MBA1925

date: 11/08/21

drawing name: R19061-M001

Sheet No :
PSC REMODEL
M001

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SEE SHEET M021B.1 FOR SHEET NOTES

MATCH LINE - SEE M021B.1

Demolish existing duct work connected to main building mechanical system

MATCH LINE - SEE M021B.1

SEE SHEET M021B.1 FOR SHEET NOTES

A M021A.1 PARTIAL FIRST LEVEL MECHANICAL DEMOLITION FLOOR PLAN - AREA 'A'

1/8" = 1'-0"

0' 2' 4' 8' 16'

NORTH

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R19061

PUBLIC SAFETY CENTER

911 KUENZLI STREET - RENO, NV

ISSUED FOR PERMIT 03/14/2021
ISSUED FOR BID 04/27/2021
ISSUED FOR CONSTRUCTION 11/08/2021

Revisions :

Sheet Title :

PARTIAL FIRST LEVEL MECHANICAL DEMOLITION FLOOR PLAN - AREA 'A'

project no: MBA1925

date: 11/08/21

drawing name: R19061-M021A_B

Sheet No :

PSC REMODEL

M021A.1

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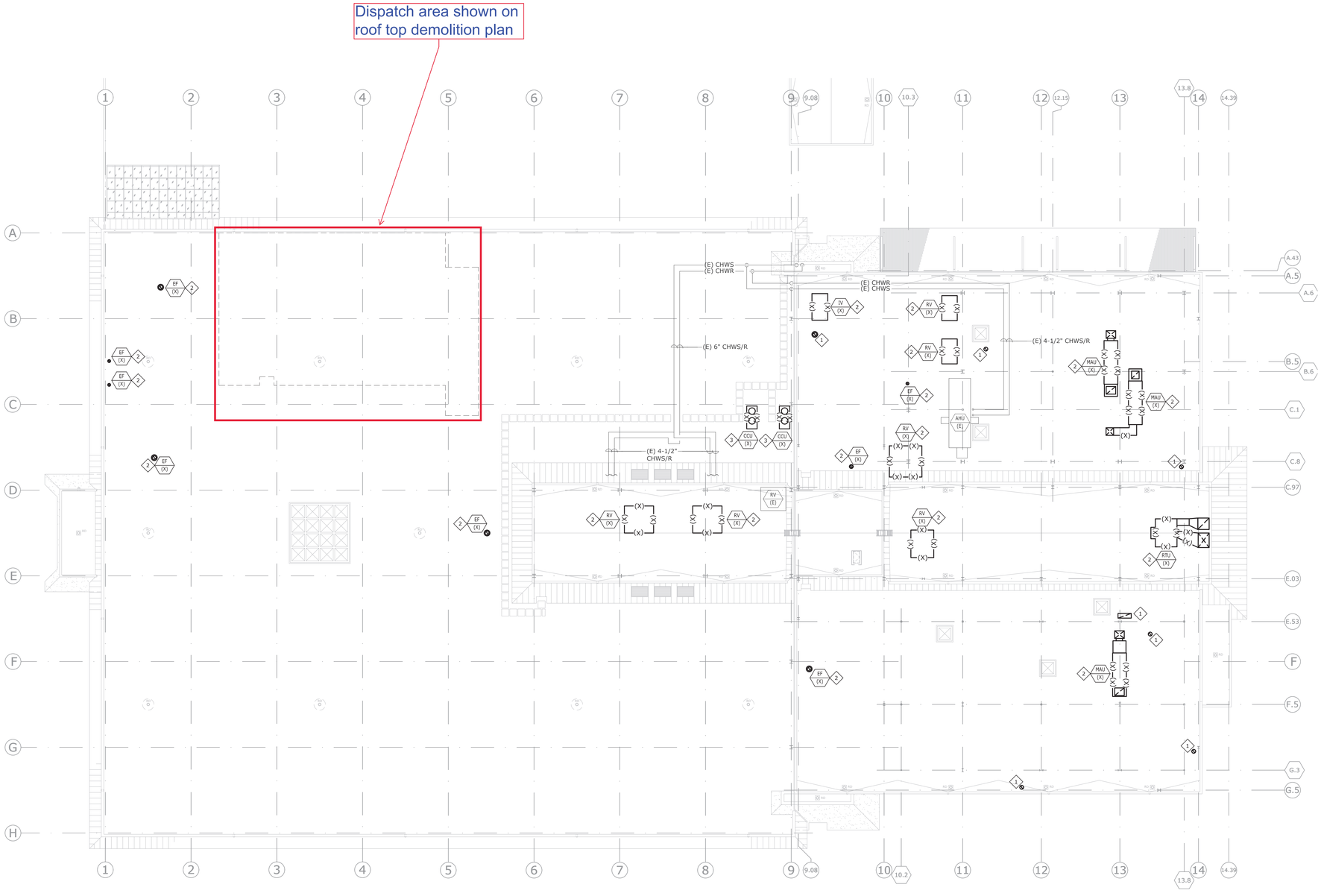
NAC 623.780



A M060 MECHANICAL DEMOLITION ROOF PLAN
1/16" = 1'-0"
0' 4' 8' 16' 32'
NORTH

GENERAL NOTES:

1. ACCESS DOORS ARE REQUIRED FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION.
2. VERIFY LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION. MOUNT ALL THERMOSTATS @48" A.F.F. IN ACCORDANCE WITH ADA STANDARDS. PROVIDE LOCKING COVERS FOR T-STATS.
3. VERIFY AND COORDINATE FRAME AND BORDER TYPE REQUIREMENTS FOR AIR DEVICES WITH ARCHITECTURAL CEILING PLANS PRIOR TO ORDERING.
4. DUCT SIZES SHOWN ARE THE CLEAR INSIDE DIMENSIONS.
5. THE MECHANICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
6. THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF HVAC EQUIPMENT AND DUCTWORK WITH OTHER TRADES PRIOR TO COMMENCING WORK.
7. ALL EXHAUST OUTLETS SHALL BE LOCATED MIN. OF 10'-0'' FROM ANY OUTSIDE AIR INTAKES.
8. THE CUTTING, NOTCHING AND BORING OF HOLES IN FLOOR JOIST AND WALL STUDS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE INTERNATIONAL BUILDING CODE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE HIS WORK.
10. REFER TO THE MECHANICAL DIAGRAMS THAT APPLY TO THE WORK ON THIS DRAWING. THESE DIAGRAMS PROVIDE GUIDANCE AS TO INSTALLATION INTENT AND DO NOT NECESSARILY SHOW ALL COMPONENTS REQUIRED.

SHEET NOTES:

1. REMOVE EXISTING VENT AND PATCH ROOF FOR FUTURE USE.
2. REMOVE EXISTING EQUIPMENT AND DUCTWORK. PATCH ROOF FOR FUTURE USE.
3. REMOVE EXISTING EQUIPMENT AND PATCH ROOF FOR FUTURE USE.

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R19061

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11/08/2021

Revisions :

Sheet Title :
MECHANICAL DEMOLITION ROOF PLAN

project no: MBA1925
date: 11/08/21
drawing name: R19061-M060

Sheet No :
PSC REMODEL
M060

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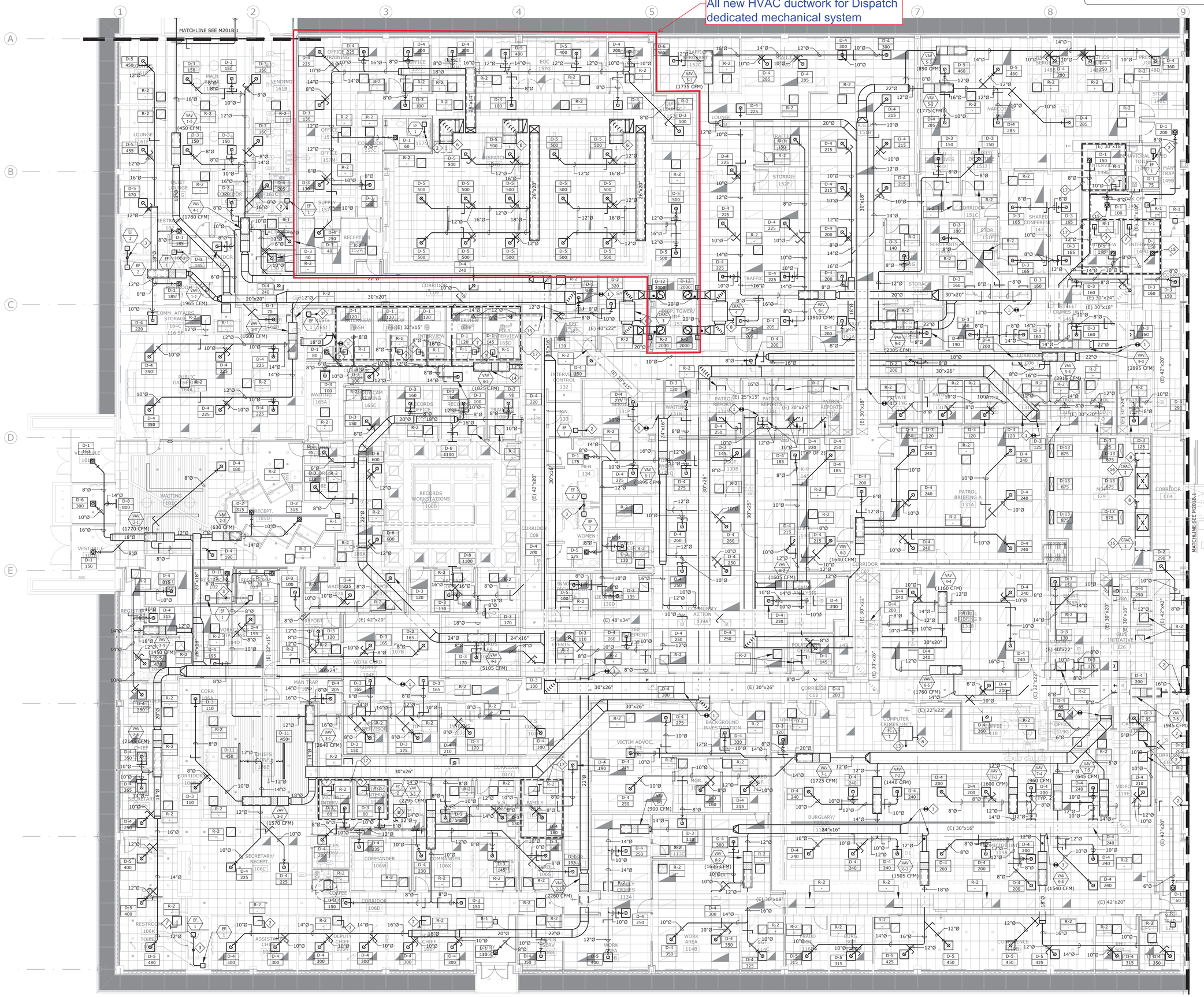
Dispatch area highlighted
All new HVAC ductwork for Dispatch
dedicated mechanical system

SEE SHEET M201B.1 FOR SHEET NOTES



A
M201A.1

PARTIAL FIRST LEVEL MECHANICAL FLOOR PLAN - AREA 'A'

1/8" = 1'-0"

0' 2' 4' 8' 16'

NORTH

DUCTING NOTES:

1. ALL EXISTING DUCTWORK TO BE CLEANED, INSPECTED AND TESTED FOR LEAKS PRIOR TO USE. ASSUME TO REPLACE 10% OF EXISTING DUCTWORK.

SEE SHEET M201B.1 FOR SHEET NOTES

June 16, 2022 E911 Special Committee Meeting

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Revisions :

Sheet Title :
PARTIAL FIRST LEVEL MECHANICAL FLOOR PLAN - AREA 'A'

project no: MBA1925
date: 11/08/21
drawing name: R19061-M201A_B

Sheet No :
PSC REMODEL
M201A.1

NAC 623.780
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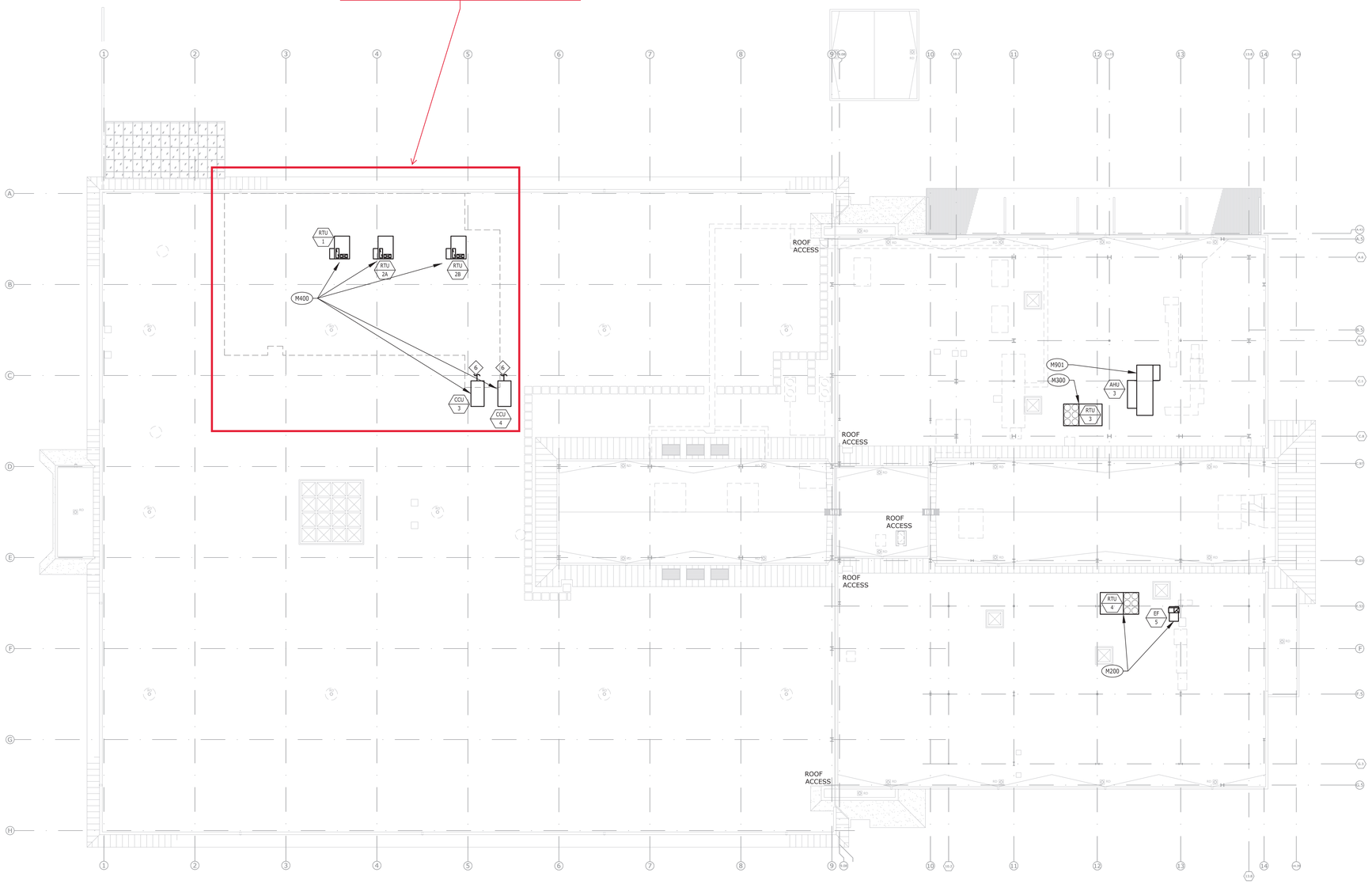

BID OPTION LIST

M200	M200 SERIES	PROVIDE ALTERNATE BID TO INCLUDE THE EVIDENCE AREA IN THE BASE BID
M300	M300 SERIES	PROVIDE ALTERNATE BID TO INCLUDE THE GYM AREA
M400	M400 SERIES	PROVIDE ALTERNATE BID TO INCLUDE THE DISPATCH AREA
M900	M900 SERIES	THE EXISTING SYSTEM SERVICING AREA 'A' DISTRIBUTES THE AIR VIA TWO LARGE TUBE AXIAL FANS THAT APPEAR TO BE A MINIMUM OF 20-30 YEARS OF AGE. WE HAVE INCLUDED FOR NEW FANS AS PART OF THE AHU-1 AND AHU-2 SYSTEMS IN LIEU OF UTILIZING THESE EXISTING FANS. THE NEW DESIGN WILL ALLOW FOR MORE EFFICIENT OPERATION, AS WELL AS LESS RISK OF MAINTENANCE ISSUES WITH THE FANS DUE TO AGE. ALLOW FOR A DESIGN ALTERNATE REMOVING THE FANS FROM AHU-1 AND AHU-2 AND RE-USING THE EXISTING SUPPLY FANS.
M901	M900 SERIES	THE RESTROOM AND LOCKER SPACES ALL REQUIRE EXHAUST. THIS RESULTS IN A LARGE QUANTITY OF EXHAUST OUT OF THE BUILDING FROM THIS AREA, CONTINUOUSLY, THAT WILL REQUIRE AIR TO BE BROUGHT BACK INTO THE BUILDING TO PREVENT PRESSURIZING THESE SPACES. THE SYSTEM THAT IS DESIGNED FOR THIS SPACE (AHU-3) INCLUDES A MEDIA THAT CAPTURES THE SPACE TEMPERATURE THAT IS BEING EXHAUSTED AND USING THAT SAME MEDIA TO PRE-TEMPER THE OUTSIDE AIR THAT IS BEING BROUGHT BACK INTO THE SPACE. THIS DESIGN SAVES A SUBSTANTIAL AMOUNT OF ENERGY AS THE AMOUNT OF AIR THAT WE WILL ACTUALLY HAVE TO CONDITION THROUGH COOLING (ELECTRIC VIA CHILLER) OR HEATING (NATURAL GAS) IS SIGNIFICANTLY REDUCED. IT WILL HAVE HIGHER UPFRONT COSTS BUT WILL SEE A PAYBACK WITHIN FIVE YEARS. IN LIEU OF THE CURRENT DESIGN, AHU-3, INCLUDE FOR A DESIGN ALTERNATE WITH A SINGLE EXHAUST FAN AND A SUBSEQUENT MAKEUP AIR UNIT WITH EVAPORATIVE COOLING AND INDIRECT-FIRED HEATING.
M902	M900 SERIES	THE MECHANICAL DESIGN DOCUMENTS REFLECT NEW BOILERS TO SERVICE THIS FACILITY. AT THE EXISTING RENO POLICE DEPARTMENT, THERE ARE TWO (2) 8-YEAR OLD 1,300 MBH LOCHINVAR WATER TUBE BOILERS. IN LIEU OF PROVIDING TWO (2) NEW BOILERS AS SPECIFIED, ALLOW FOR A DESIGN ALTERNATE TO RELOCATE THE EXISTING BOILERS FROM THE EXISTING FACILITY TO THE NEW FACILITY, AND TO PROVIDE ONE (1) NEW 1,000 MBH BOILER.
M903	M900 SERIES	THE SUNROOM IS CURRENTLY DESIGNED TO BE SERVICED BY A VAV BOX FOR COOLING, AND PATIO HEATERS FOR HEATING. AS A DESIGN ALTERNATE, PROVIDE FOR REHEAT AT VAV-1-1 AND REMOVE THE PATIO HEATERS. THE VAV REHEAT WILL NOT PROVIDE COMFORTABLE TEMPERING DURING THE WINTER MONTHS AS THE PATIO HEATERS WILL PROVIDE FOR, THOUGH THEY WILL BE ABLE TO PROVIDE FOR COMFORTABILITY DURING FALL/SPRING WEATHER.

PRICING NOTES:

BID OPTIONS M900 THROUGH M903 ARE PURPOSED FOR ROUGH MAGNITUDE OF DEDUCTIVE PRICING ONLY. IF ANY OF THESE SPECIFIC BID OPTIONS ARE APPROVED, FURTHER MECHANICAL, ELECTRICAL, AND PLUMBING DESIGN EFFORTS WILL BE REQUIRED FOR THE PURPOSES OF CONSTRUCTION.

A

A M360 OVERALL ROOF LEVEL PHASING PLAN
1/16" = 1'-0"
0' 4' 8' 16' 32'
NORTH

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Revisions :
1 04/27/2021: PLAN REVIEW
2 11/08/2021: ISSUED FOR CONSTRUCTION

Sheet Title :
OVERALL ROOF LEVEL PHASING PLAN

project no: MBA1925
date: 11/08/21
drawing name: R19061-M60001

Sheet No :
PSC REMODEL
M360

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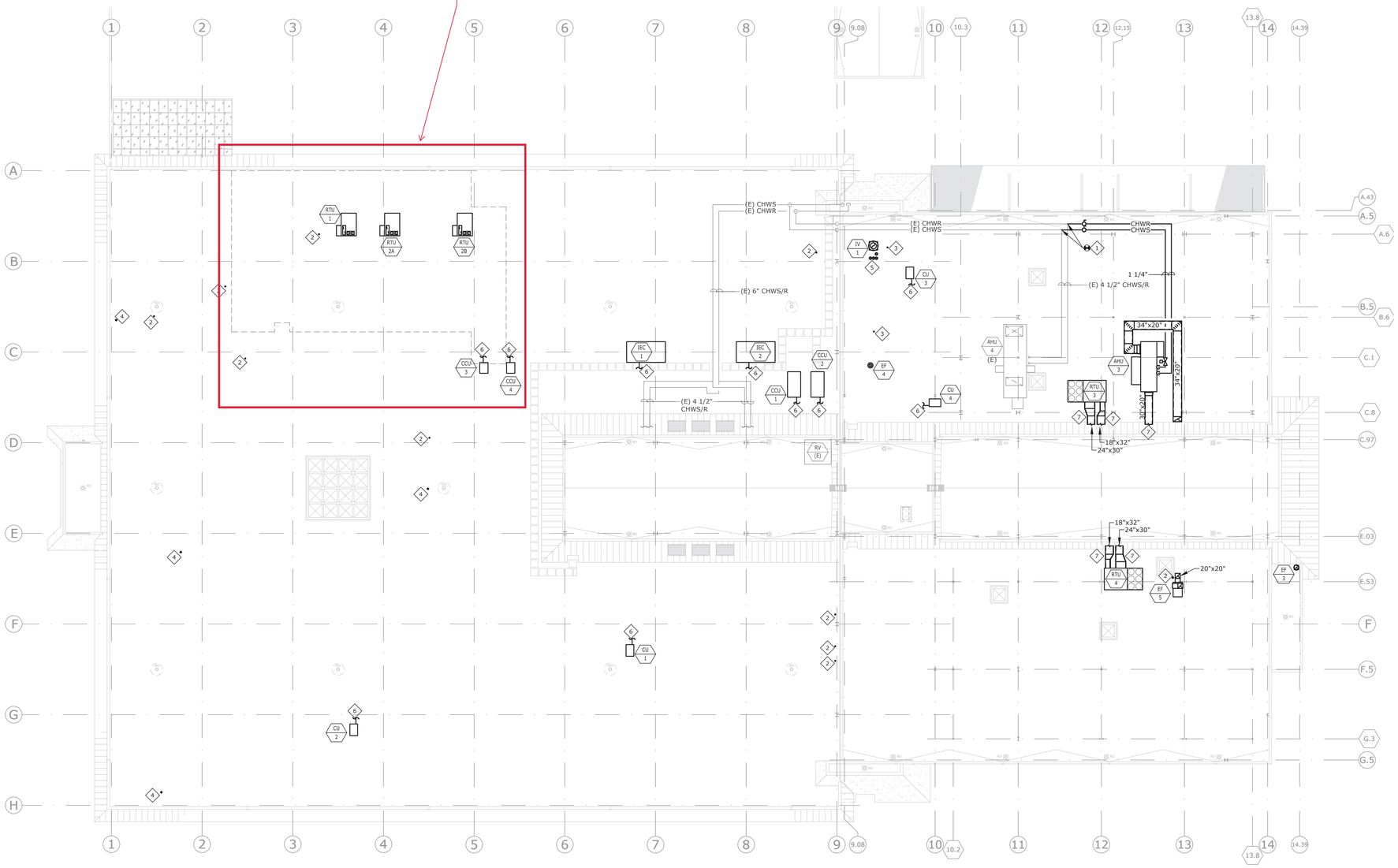
New roof top units (RTU) and air cooled condenser units (CCU) dedicated to Dispatch only



A M600 MECHANICAL ROOF PLAN
1/16" = 1'-0"

0' 4' 8' 16' 32'

NORTH

GENERAL NOTES:

1. ACCESS DOORS ARE REQUIRED FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION.
2. VERIFY LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION. MOUNT ALL THERMOSTATS @48" A.F.F. IN ACCORDANCE WITH ADA STANDARDS. PROVIDE LOCKING COVERS FOR T-STATS.
3. VERIFY AND COORDINATE FRAME AND BORDER TYPE REQUIREMENTS FOR AIR DEVICES WITH ARCHITECTURAL CEILING PLANS PRIOR TO ORDERING.
4. DUCT SIZES SHOWN ARE THE CLEAR INSIDE DIMENSIONS.
5. THE MECHANICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
6. THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF HVAC EQUIPMENT AND DUCTWORK WITH OTHER TRADES PRIOR TO COMMENCING WORK.
7. ALL EXHAUST OUTLETS SHALL BE LOCATED MIN. OF 10'-0'' FROM ANY OUTSIDE AIR INTAKES.
8. THE CUTTING, NOTCHING AND BORING OF HOLES IN FLOOR JOIST AND WALL STUDS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE INTERNATIONAL BUILDING CODE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE HIS WORK.
10. REFER TO THE MECHANICAL DIAGRAMS THAT APPLY TO THE WORK ON THIS DRAWING. THESE DIAGRAMS PROVIDE GUIDANCE AS TO INSTALLATION INTENT AND DO NOT NECESSARILY SHOW ALL COMPONENTS REQUIRED.

SHEET NOTES:

1. CONNECT NEW PIPING TO EXISTING PIPING AT LOCATION INDICATED. CONFIRM EXACT LOCATION IN FIELD PRIOR TO COMMENCING WORK.
2. 4"Ø EXHAUST DUCT THROUGH ROOF WITH VENT CAP. TERMINATE A MINIMUM OF 3'-0" FROM ANY FRESH AIR INTAKE. SEE SHEET A/M201A.1 FOR CONTINUATION.
3. 4"Ø EXHAUST DUCT THROUGH ROOF WITH VENT CAP. TERMINATE A MINIMUM OF 3'-0" FROM ANY FRESH AIR INTAKE. SEE SHEET A/M202.1 FOR CONTINUATION.
4. 6"Ø EXHAUST DUCT THROUGH ROOF WITH VENT CAP. TERMINATE A MINIMUM OF 3'-0" FROM ANY FRESH AIR INTAKE. SEE SHEET A/M201A.1 FOR CONTINUATION.
5. 8" TYPE B DOUBLE WALL EXHAUST THROUGH ROOF FROM BOILERS B-1 AND B-2 WITH ROOF CAP. SEE SHEETS A/M201B.1 AND A/M202.1 FOR CONTINUATION. TERMINATE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. MANUFACTURER'S REFRIGERANT LINE SET. SIZE, ROUTE AND INSTALL ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. DUCT THROUGH SIDEWALL INTO THIRD FLOOR SPACE. SEE SHEET A/M203.1 FOR CONTINUATION.

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MECHANICAL ROOF PLAN

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drawing name: R19061-M600

Sheet No :
PSC REMODEL
M600

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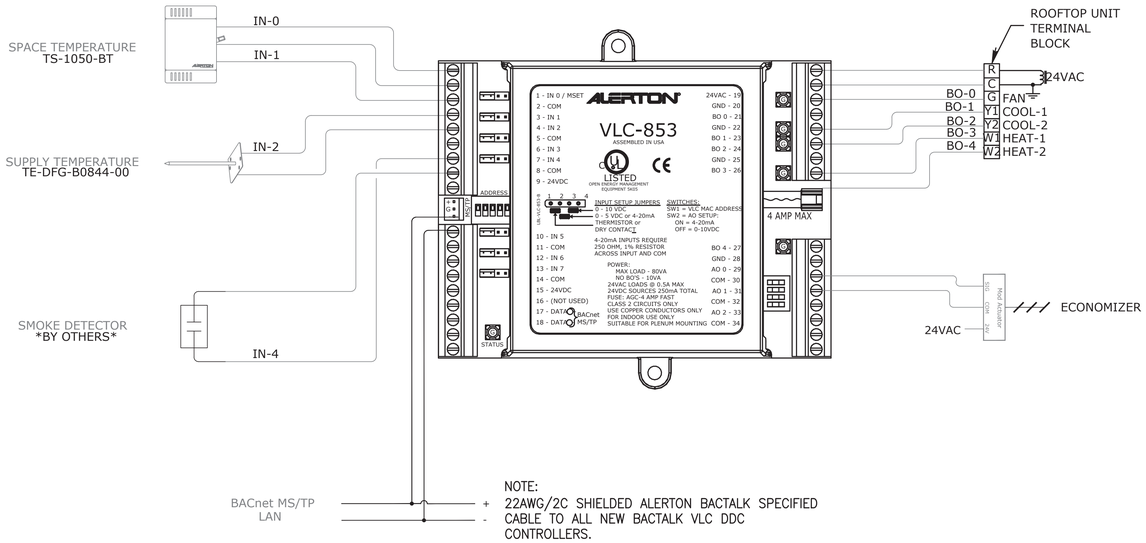

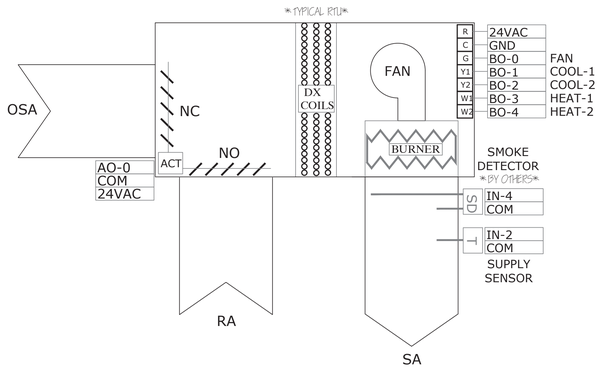

RTU 1, 2a, 2b are dedicated to Dispatch only

A
M821
RTU-1 THROUGH RTU-4 CONTROL DIAGRAM
NTS

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Revisions :

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MECHANICAL CONTROLS

project no: MBA1925
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PSC REMODEL
M821

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AIR HANDLING UNIT SCHEDULE

MARK	GENERAL DATA			SUPPLY FAN						ELECTRICAL DATA					EVAP COOLING		COOLING COIL													HEATING COIL											OPERATING WEIGHT (LBS)	REMARKS
	MANUFACTURER MODEL	LOCATION	SERVICE	SUPPLY AIR (CFM)	MIN. OUTSIDE AIR (CFM)	ESP (IN)	OUTLET VELOCITY (FPM)	WHEEL TYPE	WHEEL QTY	RPM	BHP (KW)	HP (KW)	MCA	V/PH/HZ	EAT (DB/WB)	GPM	TOTAL MBH	SENSIBLE MBH	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	MAX FACE VEL (FPM)	MAX AIR PD (IN WC)	EWT (°F)	LWT (°F)	GPM	MIN. ROWS	MAX WATER PD FT HD	TOTAL MBH	EAT (DB)	LAT (DB)	MAX FACE VEL (FPM)	MAX AIR PD (IN WC)	EWT (°F)	LWT (°F)	GPM	MIN ROWS	MAX WATER PD FT HD		
AHU 1	AIR20 SH-CRS-30000	THIRD FLOOR	PSC	28,500	7,125	4.5	477	CENT	7	3170	(36.61)	(39.98)	78	460/3/60	105/67	-	334.6	334.6	66.7	55.7	53.9	-	477	0.39	45	55	70.9	6	10.4	494.8	68.0	86.8	477	0.05	140	120	50.1	1	5.4	9,900	1, 2, 3, 4, 5, 6
AHU 2	AIR20 SH-CRS-35000	THIRD FLOOR	PSC	31,500	7,875	4.5	451	CENT	8	3168	(38.41)	(41.81)	83	460/3/60	105/67	-	408.6	408.6	66.7	55.7	52.6	-	451	0.4	45	55	86.6	6	16.9	330.5	68	79.4	451	0.03	140	120	33.5	1	15.8	11,500	1, 2, 3, 4, 5, 6

NOTES: UNIT PERFORMANCE BASED ON ELEVATION OF 4,500 FEET ABOVE SEA LEVEL.
1. PROVIDE DOUBLE WALL CONSTRUCTION WITH R-13 CLOSED CELL FOAM INSULATION.
2. PROVIDE PREMIUM EFFICIENCY SUPPLY MOTOR, DIRECT DRIVE.
3. PROVIDE 2" PLEATED MINIMUM MERV 13 FILTERS.
4. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT TO SHUTDOWN UNIT UPON DETECTION OF SMOKE PER UMC 608.1 AND NORTHERN NEVADA AMENDMENTS.
5. PROVIDE BAS INTERFACE.
6. PROVIDE 6" SUB BASE WITH NEOPRENE VIBRATION ISOLATION PADS.

EXISTING AIR HANDLING UNIT SCHEDULE

MARK	GENERAL DATA			SUPPLY FAN												EXHAUST FAN							COOLING COIL														HEATING COIL											OPERATING WEIGHT (LBS)	REMARKS
	MANUFACTURER MODEL	LOCATION	SERVICE	SUPPLY AIR (CFM)	MIN. OUTSIDE AIR (CFM)	ESP (IN)	TSP (W/ DIRTY FILTERS) (IN)	OUTLET VELOCITY (FPM)	WHEEL TYPE	WHEEL DIA. (IN)	MOTOR RPM	MOTOR BHP (W)	MOTOR HP	MOTOR MCA (FLA)	MOTOR V/PH/HZ	EXHAUST AIR (CFM)	ESP (IN)	TSP (W/ DIRTY FILTERS) (IN)	OUTLET VELOCITY (FPM)	WHEEL SIZE (IN)	BHP	HP	TOTAL MBH	SENSIBLE MBH	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	MAX FACE VEL (FPM)	MAX AIR PD (IN WC)	EWT (°F)	LWT (°F)	GPM	MIN. ROWS	MAX WATER PD FT HD	TOTAL MBH	EAT (DB)	LAT (DB)	MAX FACE VEL (FPM)	MAX AIR PD (IN WC)	EWT (°F)	LWT (°F)	GPM	MIN ROWS	MAX WATER PD FT HD		
AHU 4 (E)	YORK XTO-90x84	ROOF	EVIDENCE	10,960 7,040	3,200	2.00	4.02	3389	CENT.	-	2143	23.27	30	35	460/3/60	2,000	1.00	3.59	-	-	21.93	25	632.3	403.1	80	67	58.1	56.2	500	0.25	45	55	125.4	3	8.5	371.1 238.3	58.2 58.2	95 95	-	-	140 140	120 120	37.1 23.8	2 2	- -	8000	1, 2

NOTES: UNIT PERFORMANCE BASED ON ELEVATION OF 4,500 FEET ABOVE SEA LEVEL.
4. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT TO SHUTDOWN UNIT UPON DETECTION OF SMOKE PER UMC 608.1 AND NORTHERN NEVADA AMENDMENTS.
5. REBALANCE EXISTING UNIT TO FLOWS INDICATED.

AIR HANDLING UNIT SCHEDULE

MARK	GENERAL DATA			SUPPLY FAN												EXHAUST FAN							COOLING COIL														INDIRECT GAS-FIRED HEATING								OPERATING WEIGHT (LBS)
	MANUFACTURER MODEL	LOCATION	SERVICE	SUPPLY AIR (CFM)	MIN. OUTSIDE AIR (CFM)	ESP (IN)	TSP (W/ DIRTY FILTERS) (IN)	OUTLET VELOCITY (FPM)	WHEEL TYPE	WHEEL DIA. (IN)	MOTOR RPM	MOTOR BHP (W)	MOTOR HP	MOTOR MCA	MOTOR V/PH/HZ	EXHAUST AIR (CFM)	ESP (IN)	TSP (W/ DIRTY FILTERS) (IN)	OUTLET VELOCITY (FPM)	WHEEL SIZE (IN)	BHP	HP	TOTAL MBH	SENSIBLE MBH	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	MAX FACE VEL (FPM)	MAX AIR PD (IN WC)	EWT (°F)	LWT (°F)	GPM	MIN. ROWS	MAX WATER PD FT HD	INPUT MBH	OUTPUT MBH	EAT (DB)	LAT (DB)	MAX FACE VEL (FPM)	GAS PRESSURE (IN WC)	CONN SIZE (IN)	
AHU 3	AAON RNA011C03AAB02	ROOF	LOCKERS	4,900	4,900	1.2	3.12	1498	CENT.	24.5	1760	4.85	7.5	40	460/3/60	5,300	2.19	2.64	2009	22	4.6	5	111.78	111.78	84.12	59.96	58.54	50.77	336	0.16	45	55	22.4	3	-	225	185.4	50.9	92.2	-	12	1/2	4100

AIR HANDLING UNIT ENERGY RECOVERY SCHEDULE

MARK	UNIT OUTDOOR AIR (CFM)	UNIT EXHAUST AIR (CFM)	TOTAL AIR PD (IN. WG.)	EFFECTIVENESS (SENS/LAT)	COOLING								HEATING								ENERGY RECOVERY WHEEL			REMARKS
					OUTDOOR AIR EAT (°F)		OUTDOOR AIR LAT (°F)		EXHAUST AIR EAT (°F)		EXHAUST AIR LAT (°F)		OUTDOOR AIR EAT (°F)		OUTDOOR AIR LAT (°F)		EXHAUST AIR EAT (°F)		EXHAUST AIR LAT (°F)		SIZE (DIA.)	MOTOR SPEED (RPM)	MOTOR HP	
					DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB				
AHU 3	4,900	5,300	0.97	72/64	103.9	60.6	83.03	60.07	75	61	95.13	61.76	5	2.5	53.77	47.08	75	61	27.39	27.2	50	2,200	0.16	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

NOTES:
1. PROVIDE DOUBLE WALL CONSTRUCTION WITH R-13 FOAM INSULATION.
2. PROVIDE STAINLESS STEEL DRAIN PAN.
3. PROVIDE 14" SEISMICALLY RATED CURB WITH 2" INSULATION.
4. PROVIDE DIGITAL SCROLL FIRST STAGE COMPRESSOR AND SCROLL SECOND STAGE COMPRESSOR.
5. PROVIDE STAINLESS STEEL HEAT EXCHANGER FOR HIGH ALTITUDE.
6. PROVIDE PREMIUM EFFICIENCY SUPPLY MOTOR WITH VFD, DIRECT DRIVE.
4. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT TO SHUTDOWN UNIT UPON DETECTION OF SMOKE PER UMC 608.1 AND NORTHERN NEVADA AMENDMENTS.
5. PROVIDE HINGED ACCESS DOORS.
6. PROVIDE BAS INTERFACE.
7. REBALANCE EXISTING UNIT TO FLOWS INDICATED.
8. ENERGY RECOVERY SYSTEM SHALL BE INTEGRAL TO DESIGNATED AHU.
9. PROVIDE SEMCO ENERGY WHEEL.
10. PROVIDE DEFROST CONTROL
11. PROVIDE BYPASS DAMPER.
12. PROVIDE 2" MINIMUM MERV-8 FILTER ON EXHAUST.
13. ENERGY RECOVERY IS TO BE INTEGRAL TO AIR HANDLING UNIT.

New rooftop heating/cooling units dedicated to Dispatch only

PACKAGED GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	GENERAL DATA			SUPPLY FAN DATA					COOLING CAPACITY						HEATING CAPACITY				ELECTRICAL DATA						OPERATING WEIGHT (LBS)	REMARKS
	MANUFACTURER MODEL	LOCATION	SERVICE	SUPPLY AIR CFM	MIN. OUTSIDE AIR CFM	ESP (IN WG)	RPM	BHP	TOTAL (MBH)	SENSIBLE (MBH)	EAT (DB)	EAT (WB)	AMBIENT TEMP (°F)	SEER/ EER	GAS INPUT (MBH)	GAS OUTPUT (MBH)	EAT (°F)	LAT (°F)	GAS CONNECTOR SIZE (IN)	EFF (%)	COMP RLA.	COND. FLA	EVAP. FLA	MCA	MOCP	V/PH/HZ		
RTU 1	RHEEM RKNL-C090DL15EADA	ROOF	DISPATCH	3,000	300	0.8	792	2	81.3	71.0	75.0	59	105	-/11.2	150	121.5	63.8	99.6	1/2	81	12.2	2.8	4	21	25	460/3/60	1300	1, 2, 3, 4, 5, 6, 7, 8
RTU 2A	RHEEM RGEDZS120ADB152CADB1	ROOF	DISPATCH	4,000	200	0.8	935	1.7	125.3	95.1	76.7	59.3	105	-/11.5	150	121.5	67.1	100.1	3/4	81	14.7	(2) 1.4	5	27	40	460/3/60	1300	1, 2, 3, 4, 5, 6, 7, 8
RTU 2B	RHEEM RGEDZS120ADB152CADB1	ROOF	DISPATCH	4,000	200	0.8	935	1.7	125.3	95.1	76.7	59.3	105	-/11.5	150	121.5	67.1	100.1	3/4	81	14.7	(2) 1.4	5	27	40	460/3/60	1300	1, 2, 3, 4, 5, 6, 7, 8
RTU 3	RHEEM RKNL-C180DL35EADA	ROOF	FITNESS	6,000	1,650	1.2	765	3	182	135.7	81.9	61.8	105	-/11.2	350	232.5	52.0	94.1	3/4	81	(2) 12.2	(4) 1.4	4.6	40	45	460/3/60	2500	1, 2, 3, 4, 5, 6, 7, 8
RTU 4	RHEEM RKNL-C180DL35EADA	ROOF	EVIDENCE	6,000	1,200	1.2	765	3	182	135.7	85.8	54.6	105	-/11.2	350	232.5	51.2	90.0	3/4	81	(2) 12.2	(4) 1.4	4.6	40	45	460/3/60	2500	1, 2, 3, 4, 5, 6, 7, 8

NOTE: UNIT PERFORMANCE BASED ON AN ALTITUDE OF 4,500 FEET ABOVE SEA LEVEL.
1. AIR CONDITIONING SYSTEM SHALL COMPLY WITH ASHRAE 90.1-2010 STANDARDS.
2. PROVIDE 14" SEISMICALLY-RATED ROOF CURB.
3. PROVIDE 3/4" CONDENSATE DRAIN AND ROUTE TO APPROVED PLUMBING FIXTURE. SEE PLUMBING DRAWINGS FOR ROUTING.
4. PROVIDE BACNET COMMUNICATIONS CARD.
5. PROVIDE 2" MINIMUM MERV 13 REPLACEABLE FILTER.
6. PROVIDE ECONOMIZER WITH POWERED EXHAUST.
7. PROVIDE HAIL GUARD.
8. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT TO SHUTDOWN UNIT UPON DETECTION OF SMOKE PER UMC 608.1 AND NORTHERN NEVADA AMENDMENTS.

FAN COIL UNIT SCHEDULE

MARK	GENERAL DATA			SUPPLY FAN				COOLING COIL												ELECTRICAL			OPERATING WEIGHT (LBS)	REMARKS
	MANUFACTURER MODEL	LOCATION	SERVICE	SUPPLY AIR (CFM)	MIN. OUTSIDE AIR (CFM)	ESP (IN)	HP	TOTAL MBH	SENSIBLE MBH	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	MAX FACE VEL (FPM)	MAX AIR PD (IN WC)	EWT (°F)	LWT (°F)	GPM	MIN. ROWS	MAX WATER PD (FT)	V/PH/HZ	MCA	MOCP	
FC 5	ENVIRO-TEC HDD30	ELECTRIC ROOM	ELECTRIC ROOM	3,000	0	0.3	1	75.6	67.4	80	63	55.4	53.7	459	0.24	45	55	15.1	6	1.86	460/3/60	3.4	15	450	1, 2, 3, 4

NOTE: UNIT PERFORMANCE BASED ON AN ALTITUDE OF 4,500 FEET ABOVE SEA LEVEL.
1. PROVIDE ELECTRONICALLY COMMUTATED MOTOR.
2. PROVIDE HINGED ACCESS PANELS.
3. PROVIDE SECONDARY DRAIN CONNECTIONS.
4. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT TO SHUTDOWN UNIT UPON DETECTION OF SMOKE PER UMC 608.1 AND NORTHERN NEVADA AMENDMENTS.

COMPUTER ROOM AIR CONDITIONING UNIT SCHEDULE

MARK	GENERAL DATA			FANS			MOTOR			COOLING						HUMIDIFICATION		ELECTRICAL			OPERATING WEIGHT (LBS)	REMARKS
	MANUFACTURER MODEL	LOCATION	SERVICE	CFM	ESP (IN)	QUANTITY	RPM	BHP	HP	TOTAL MBH	SENS MBH	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	CAPACITY (LB/HR)	WATER CONN (IN)	V/PH/HZ	FLA	MOCP		
CRAC 1	COMPU-AIRE CAA-1034	GROUND	MDF 129	5,500	0.5	1	-	6.03	7.5	127.9	105.1	75	61	54	52.5	6.8	1/4"	460/3/60	34.9	50	1,650	1, 2, 3, 4, 5, 6
CRAC 2	COMPU-AIRE CAA-1034	GROUND	MDF 129	5,500	0.5	1	-	6.03	7.5	127.9	105.1	75	61	54	52.5	6.8	1/4"	460/3/60	34.9	50	1,650	1, 2, 3, 4, 5, 6
CRAC 3	COMPU-AIRE MKE-434	CEILING	IDF 153	2000	0.5	1	-	5.8	7.5	51.5	41.6	75	61	52.5	51.5	10	1/4"	460/3/60	22	40	610	1, 2, 3, 4, 5, 6
CRAC 4	COMPU-AIRE MKE-434	CEILING	IDF 153	2000	0.5	1	-	5.8	7.5	53.0	51.18	75	61	57	55	10	1/4"	460/3/60	22	40	610	1, 2, 3, 4, 5, 6

NOTE: UNIT PERFORMANCE BASED ON AN ELEVATION OF 4,500 FEET ABOVE SEA LEVEL.
1. PROVIDE REFRIGERANT LINES SIZED PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE CLEARANCE AROUND UNIT PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE P-TRAPS AND ARRANGE SLOPE OF REFRIGERANT PIPING FOR OIL RETURN.
4. PROVIDE SAFETY CONTROLS.
5. PROVIDE BAS INTERFACE.
6. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT TO SHUTDOWN UNIT UPON DETECTION OF SMOKE PER UMC 608.1 AND NORTHERN NEVADA AMENDMENTS.

INDIRECT EVAPORATIVE COOLER SCHEDULE

MARK	MANUFACTURER MODEL	LOCATION	SERVICE	SUPPLY FAN							PUMP			INDIRECT COOLING		OPERATING WEIGHT (LBS)	REMARKS
				QTY	BHP	AMPS	V/PH/HZ	CFM	TOTAL FLA	TOTAL MCA	MOCP	BHP	AMPS	V/PH/HZ	GPM	HEAD FT		
IEC 1	AIR20	ROOF	AHU-1	3	3.6	10.8	460/3/60	28,500	20	25	30	5.37	-	460/3/60	144	8.9	8,000	1, 2, 3, 4
IEC 2	AIR20	ROOF	AHU-2	4	3	12	430/3/60	31,491	21	27	30	5.37	-	460/3/60	168	8.9	9,300	1, 2, 3, 4

NOTE: UNIT PERFORMANCE BASED ON ELEVATION OF 4,500 FEET ABOVE SEA LEVEL.
1. PROVIDE 14" SEISMICALLY RATED ROOF CURB.
2. PROVIDE LONG LIFE 7090 12" EVAPORATIVE MEDIA.
3. PROVIDE DOUBLE WALL CONSTRUCTION WITH R-13 CLOSED CELL FOAM INSULATION.
4. PROVIDE 304 STAINLESS STEEL CIRCULATING PUMP WITH THERMAL CUTOUT AND LOW WATER SHUTOFF.

COMPUTER ROOM AIR COOLED CONDENSER UNIT SCHEDULE

MARK	MANUFACTURER MODEL	INDOOR UNIT	LOCATION	NOMINAL CAPACITY (TONS)	CONDENSER FANS			OA AMBIENT °F		ELECTRICAL			OPERATING WEIGHT (LBS)	REMARKS
					NO.	HP (EA)	RPM	MIN	MAX	V/PH/HZ	FLA	MOCP		
CCU 1	COMPU-AIRE ACC-1134	CRAC 1	ROOF	10	2	4/5	1,075	15	105	460/3/60	4.2	15	650	1, 2, 3, 4, 5
CCU 2	COMPU-AIRE ACC-1134	CRAC 2	ROOF	10	2	4/5	1,075	15	105	460/3/60	4.2	15	650	1, 2, 3, 4, 5
CCU 3	COMPU-AIRE ACC-534	CRAC 3	ROOF	5	1	4/5	1,075	15	105	460/3/60	4.6	15	340	1, 2, 3, 4, 5
CCU 4	COMPU-AIRE ACC-534	CRAC 4	ROOF	5	1	4/5	1,075	15	105	460/3/60	4.6	15	340	1, 2, 3, 4, 5

1. PROVIDE REFRIGERANT LINES SIZED PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE CLEARANCE AROUND UNIT PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE P-TRAPS AND ARRANGE SLOPE OF REFRIGERANT PIPING FOR OIL RETURN.
4. PROVIDE SAFETY CONTROLS.
5. PROVIDE LOW AMBIENT KIT.

New cooling units dedicated to Dispatch IDF only

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11/08/2021

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ISSUED FOR CONSTRUCTION 11/08/2021

Revisions :
1 04/27/2021: PLAN REVIEW
2 11/08/2021: ISSUED FOR CONSTRUCTION

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MECHANICAL SCHEDULES

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EXHIBIT D

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E002	ELECTRICAL GENERAL NOTES	●				
E010	ELECTRICAL SITE PLAN	●	●			
E021	OVERALL FIRST LEVEL ELECTRICAL DEMOLITION FLOOR PLAN	●				
E021A	PARTIAL FIRST LEVEL ELECTRICAL DEMOLITION FLOOR PLAN - AREA 'A'	●				
E021B	PARTIAL FIRST LEVEL ELECTRICAL DEMOLITION FLOOR PLAN - AREA 'B'	●				
E022	OVERALL SECOND LEVEL ELECTRICAL DEMOLITION FLOOR PLAN	●				
E023	OVERALL THIRD LEVEL ELECTRICAL DEMOLITION FLOOR PLAN	●				
E060	OVERALL ROOF ELECTRICAL DEMOLITION PLAN	●				
E201	OVERALL FIRST FLOOR POWER & ITS FLOOR PLAN & FIRE RATING SCHEMATIC	●	●			
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E202	OVERALL SECOND FLOOR POWER FLOOR PLAN	●				
E203	OVERALL THIRD FLOOR POWER FLOOR PLAN	●		●		
E300.10	ELECTRICAL SITE PHASING PLAN	●	●	●		
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E501B	PARTIAL FIRST LEVEL LIGHTING FLOOR PLAN - AREA 'B'	●	●			
E502	OVERALL SECOND FLOOR LIGHTING PLAN	●				
E503	OVERALL THIRD FLOOR LIGHTING PLAN	●				
E600	ELECTRICAL ROOF PLAN	●				
E700	PARTIAL SINGLE LINE DIAGRAM	●	●	●		
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E702	POWER CALCULATIONS	●				
E800	ELECTRICAL DIAGRAMS	●				
E900	PANEL SCHEDULES	●	●	●		
E901	PANEL SCHEDULES	●	●	●		
E902	PANEL SCHEDULES	●		●		
E903	PANEL SCHEDULES	●		●		
	TOTAL	37	16	17		

ELECTRICAL - GENERAL SUMMARY OF WORK

1) OVERVIEW: CONVERT EXISTING NEWSPAPER PUBLISHING FACILITY TO ESTABLISH A NEW PUBLIC SAFETY CENTER. SUBSTANTIAL ELECTRICAL DEMOLITION IS REQUIRED TO PREPARE THE SITE AND BUILDINGS FOR THIS WORK.

2) EXISTING ELECTRICAL INFRASTRUCTURE: CITY OF RENO HAS DETERMINED THAT MOST OF THE EXISTING ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT, STANDBY GENERATORS, UPS SYSTEMS AND THEIR FEEDERS ARE ACCEPTABLE FOR THE CITY'S PURPOSES. UTILIZE AND MODIFY EXISTING ELECTRICAL INFRASTRUCTURE AS DESCRIBED HEREIN.

3) NEW ELECTRICAL INFRASTRUCTURE: PROVIDE NEW DEDICATED COMMERCIAL POWER SERVICE, STANDBY AND UPS POWER SYSTEMS FOR NEW "911/DISPATCH" CENTER.

4) NEW COMMUNICATIONS, DATA AND SECURITY INFRASTRUCTURE: LOW VOLTAGE SYSTEMS INFRASTRUCTURE IS DESIGNED BY MSA. SEE ITS-SERIES DRAWINGS AND SPECIFICATIONS FOR THIS WORK.

5) NEW LIGHTING SYSTEM: EXCEPT AS NOTED, ALL LIGHTING AND CONTROLS ARE NEW - NOT DESIGNED BY MSA. LIGHTING AND CONTROLS ARE DESIGNED BY "LIGHT SOLUTIONS". SEE LP-SERIES DRAWING AND SPECIFICATIONS FOR THIS WORK.

6) NEW DESIGN-BUILD FIRE ALARM SYSTEM: DEFERRED SUBMITTAL. PROVIDE A COMPLETE, NEW FIRE ALARM DETECTION AND ALARM SYSTEM WITH CLASS 1 CIRCUITING AS REQUIRED BY LOCAL FIRE MARSHAL. CONTROL PANEL SHALL INCLUDE INTEGRAL STANDBY BATTERIES, CHARGER, AND MUNICIPAL TIE MODULE OR AGENCY APPROVED AUTO-DIALER CONNECTED TO THE TELEPHONE SYSTEM (CONNECTION AND MONITORING CHARGES BY OWNER). SUBMIT PROPOSED DESIGN TO FIRE MARSHAL FOR APPROVAL AND PERMITTING PRIOR TO ROUGH-IN. AFTER PLANS HAVE BEEN APPROVED BY THE FIRE MARSHAL, PROVIDE (1) SET OF STAMPED DRAWINGS ALONG WITH AN APPROVED EQUIPMENT SUBMITTAL TO THE ELECTRICAL ENGINEER FOR THEIR RECORDS. ALL CONNECTIONS TO SYSTEM SHALL BE PERFORMED BY FACTORY-CERTIFIED TECHNICIAN AND SHALL BE ACCEPTED BY OWNER'S SYSTEM-MONITORING AGENCY. PROVIDE A COMPLETE FIRE ALARM SYSTEM INCLUDING BUT NOT LIMITED TO INITIATING DEVICES, DUCT DETECTORS, ADA HORN/STROBES, ETC. IN FULL COMPLIANCE WITH NFPA-72 AND ALL LOCAL, STATE, AND ADA REQUIREMENTS. ELECTRICAL DRAWINGS DO NOT INDICATE TYPES, LOCATIONS, OR QUANTITIES OF FIRE ALARM SYSTEM AND COMPONENTS.

7) NEW DESIGN-BUILD LIGHTNING PROTECTION SYSTEM: SEPARATE SUBMITTAL. ALARM SYSTEMS REQUIRE A SEPARATE PERMIT AND CANNOT BE REVIEWED UNDER BUILDING PERMIT NUMBER. PROVIDE A COMPLETE PROPERTY-WIDE LIGHTING PROTECTION SYSTEM, INCLUDING THE ROOFTOP ANTENNA SYSTEM. SYSTEM SHALL INCLUDE BONDING OF ROOFTOP AND GROUND-MOUNTED EQUIPMENT, INTERCONNECTION WITH POWER AND COMMUNICATION GROUNDING SYSTEMS, SPD SURGE PROTECTIVE DEVICES, AND COUNTERPOISE LOOP, DESIGNED AND INSTALLED BY A U.L. 0WAY-96A CERTIFIED INSTALLER. SYSTEM SHALL HAVE A U.L. MASTER LABEL. ELECTRICAL DRAWINGS DO NOT INDICATE TYPES, LOCATIONS, OR QUANTITIES OF LIGHTNING PROTECTION SYSTEM AND COMPONENTS, INCLUDING SPD DEVICES WHICH MAY BE REQUIRED BEYOND THOSE INDICATED ON SHEET E800.

8) 3RD PARTY TESTING:

1. ENGAGE A NETA-ACCREDITED TESTING AGENCY(IES) TO PERFORM AND CERTIFY BOTH PRE- AND POST-CONSTRUCTION ACCEPTANCE TESTS OF THE ELECTRICAL SYSTEMS.

2. THE FOLLOWING EQUIPMENT AND SYSTEMS HAVE BEEN REVIEWED BY CITY OF RENO AND FOUND GENERALLY ACCEPTABLE. 3RD PARTY TESTING IS LIMITED TO OBSERVING AND REPORTING ON THEIR FUNCTIONAL OPERATION:
   a. EXISTING GENERATORS 'EG1' AND 'EG2', PARALLELING EQUIPMENT, 'ATS-EG1' AND 'UPS1' ARE DEEMED TO BE IN PROPER OPERATIONAL CONDITION UNLESS FOUND OTHERWISE BY THESE TESTS AND OBSERVATIONS.
   b. EXISTING AUTOMATIC LOAD-SHEDDING CONTROL SYSTEM IS DEEMED TO BE INOPERATIVE AND IS NOT PART OF THIS PROJECT.

3. PRE-CONSTRUCTION TESTING: PROVIDE TESTS AND WRITTEN REPORTS OF THE FOLLOWING:
   a. TEST FUNCTION, OPERABILITY, SHUNT TRIP, GROUND FAULT, FUSES AND TRIP SETTINGS OF CIRCUIT PROTECTIVE DEVICES OF EXISTING SWITCHGEAR 'MDBTSB', 'MDS480', 'MDS208', 'MCC1' AND 'MCC2'.
   b. HIPOT TEST EXISTING POWER FEEDERS RATED 100 AMPS AND ABOVE.
   c. PERFORM COMMERCIAL POWER FAILURE TEST: OBSERVE AND DOCUMENT PROPER AUTOMATIC GENERATORS START, PARALLEL, TRANSFER, RETRANSFER, COOL DOWN AND SHUT DOWN OPERATION.
   d. THE FOLLOWING ARE EXCLUDED FROM TESTING:
      1) EXISTING PANELBOARDS (ALL EXISTING PANELBOARDS ARE REMOVED UON.)
      2) FEEDERS SERVING DEMOLISHED EQUIPMENT (FEEDERS ARE REMOVED UON).

4. POST-CONSTRUCTION TESTING: PROVIDE TESTS AND WRITTEN REPORTS OF THE FOLLOWING:
   a. RETEST EXISTING SWITCHGEAR 'MDBTSB', 'MDS480', 'MDS208', 'MCC1' AND 'MCC2', AS ABOVE.
   b. HIPOT TEST ALL FEEDERS – BOTH NEW AND EXISTING.
   c. TEST NEW PANELBOARDS, TRANSFORMERS, 'UPS2' AND 'EM1'.
   d. PERFORM COMMERCIAL POWER FAILURE TEST, AS ABOVE.
   e. TEST NEW 911/DISPATCH ELECTRICAL SYSTEM INCLUDING 'MCB-911', 'EG-911', 'MTS', 'ATS-911', 'UPS911', PANELS '911-480', '911-208', '911-208-1', '911UPS', '911-UPS-1', 911-UPSA' AND 911-UPSB' AND ALL FEEDERS, INCLUDING COMMERCIAL POWER FAILURE TEST.

5. POST-OCCUPANCY TESTING: 90 DAYS AFTER OCCUPANCY AND FULL UTILIZATION OF THE BUILDING, PERFORM INFRARED (IR) TESTING AND DOCUMENTATION OF ALL EXISTING AND NEW ELECTRICAL EQUIPMENT, CIRCUIT PROTECTION DEVICES, CONNECTIONS AND TERMINATIONS.

ELECTRICAL SYMBOL LIST

NOTE: THIS IS A MASTER SCHEDULE. NOT ALL SYMBOLS AND/OR ABBREVIATIONS CONTAINED HEREIN MAY APPEAR ON THE DRAWINGS.
SHEETS AND/OR DESCRIPTIONS IN THESE PLANS AND DIAGRAMS SHALL SUPERSEDE THIS SYMBOL LIST (SYMBOL DEFINITION, FUNCTION, MOUNTING HEIGHTS, ETC. MOUNTING HEIGHTS SHALL BE TO CENTER OF THE BOX U.O.N)

ABBREVIATIONS

A, AMPS	AMPERES
AL	ALUMINUM
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFCI	ARC FAULT INTERRUPTER DEVICE
AIC	AMPERE INTERRUPTION CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
BKBD	BACKBOARD
C, C.	CONDUIT (W/ PULL CORD IF OTHERWISE EMPTY)
CU	COPPER
CW	COLD WATER
DIA.	DIAMETER
DIST	DISTRIBUTION
DH,H	DAYLIGHT HARVESTING
DMR	DIMMER
EVSE	ELECTRIC VEHICLE SUPPLY EQUIPMENT
(E)	EXISTING TO REMAIN
F	FUSE (DUAL-ELEMENT, TIME DELAY UON)
(F)	FUTURE
FBO	FURNISHED BY OTHERS
FF&E	FIXTURES, FURNISHINGS & EQUIPMENT
FPEN	FUSE PER EQUIPMENT NAMEPLATE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER DEVICE
G, GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
ID	INSIDE DIMENSION
IG	ISOLATED GROUND
K	KCMIL (EXAMPLES 300 KCMIL = 300K)
LCP	LIGHTING CONTROL PANEL
(N)	NEW
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OD	OUTSIDE DIMENSION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OC	OVER COUNTER, MOUNTED
P	POLES
P-, PNL	PANEL
PH	PHASE
(R)	EXISTING - RELOCATE
RCP	ROOM CONTROL PANEL
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
SPD	SURGE PROTECTIVE DEVICE (AKA TVSS)
SVC	SERVICE
SWBD	SWITCHBOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION (AKA SPD)
UNSW	UNSWITCHED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
W	WIRES
WP	WEATHERPROOF (NEMA 3R)
(X)	EXISTING - REMOVE
T-, XFMR	TRANSFORMER
30/3	AMPS/POLES REPRESENTATION (EXAMPLE: 30/3=30A,3P)

ELECTRICAL TAGS

- SHEET NOTE DESIGNATION
- 1002 — FEEDER DESIGNATION
- FC — MECHANICAL EQUIPMENT DESIGNATION. PROVIDE WITH DISCONNECT AND OCPD. COORDINATE WITH MECHANICAL AND PLUMBING SCHEDULES FOR A COMPLETE SYSTEM.

LIGHT FIXTURES (FOR REFERENCE ONLY SEE LIGHTING DESIGNS BY OTHERS FOR ALL SPECIFICATIONS AND LOCATIONS AND CONTROLS AND EGRESS ILLUMINATION AND EXIT SIGNS ETC)

- LIGHT FIXTURE - CEILING SURFACE MOUNTED. (DRAWN TO APPROXIMATE SHAPE AND SCALE OR ENLARGED FOR CLARITY)
- LIGHT FIXTURE - CEILING RECESSED MOUNTED. (DRAWN TO APPROXIMATE SHAPE AND SCALE OR ENLARGED FOR CLARITY)
- LIGHT FIXTURE - PENDANT, CHAIN, STEM OR CABLE SUSPENDED. (DRAWN TO APPROXIMATE SHAPE AND SCALE OR ENLARGED FOR CLARITY)
- LINEAR WALL BRACKET
- WALL SCONCE
- STEP LIGHT
- STRIP LIGHT FIXTURE - SURFACE MOUNTED
- STRIP LIGHT FIXTURE - PENDANT, CHAIN, STEM OR CABLE SUSPENDED
- STRIP LIGHT FIXTURE - WALL MOUNTED
- CONTINUOUS LIGHT FIXTURE ASSEMBLY - TAPE, NARROW CHANNEL, TUBE, ETC.
- TRACK LIGHT SYSTEM (SHOWN W/ END FEED). NUMBER OF HEADS AS INDICATED ON PLANS.
- CHANDELIER (PROVIDE 5X STRUCTURAL BACKING)
- DECORATIVE WALL SCONCE
- POLE OR POST - ARM MOUNTED LUMINAIRE
- POLE OR POST - TOP MOUNTED LUMINAIRE
- BOLLARD LUMINAIRE - ROUND OR SQUARE
- EXIT SIGNS - FACES (FILLED IN), ARROWS, AND MOUNTING AS INDICATED ON PLANS. VERIFY LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH IN.

LIGHT FIXTURES TAGS AND MODIFIERS

- WALL-WASH OR ACCENT.
- FIXTURE AND/OR EQUIPMENT ON EMERGENCY POWER.
- A — A - LIGHT FIXTURE TYPE, SEE SCHEDULE; 1 - NUMBER INDICATES CIRCUIT NUMBER; a - LOWER-CASE LETTER INDICATES SWITCH LEG; z1 - LOWER-CASE "z" W/ NUMBER INDICATES CONTROL ZONE.

SWITCHES @ +46" UON (DECORA STYLE UON)

- S — SWITCH - SINGLE POLE
- S2 — SWITCH - TWO POLE
- S3 — SWITCH - THREE-WAY
- S4 — SWITCH - FOUR-WAY
- SX — SWITCH - EMERGENCY (W/VOLTAGE BARRIER FROM NORMAL POWER DEVICES)
- SP — SWITCH - PILOT LIGHT (CONFIRM LIT POSITION)
- SK — SWITCH - KEY OPERATED
- SC — SWITCH - MOMENTARY CONTACT: SPDT CENTER OFF UON
- SM — MANUAL MOTOR STARTER: POLES AS INDICATED, HEATERS AS REQD.
- ST — COUNTDOWN TIMER SWITCH: DURATION AS INDICATED
- D — DIMMER SWITCH - SLIDER TYPE: 600W UON - MATCH FIXTURE CONTROL REQUIREMENTS (0-10V OR ELV UON) NOTE: 0-10V REQUIRES 2/C #18 STRANDED SHIELDED CONTROL WIRE. RUN SEPARATE FROM POWER WIRING.
- PE — PHOTOCELL SWITCH: 1500W, WP W/ ADJUSTABLE LIGHT GATE UON

OCCUPANCY / VACANCY SWITCHES @ +46" UON

NOTE: (ALL DUAL-TECHNOLOGY WITH INTEGRAL OR ADJACENT POWER PACK)

- M — SWITCH - SPST
- M — SWITCH - SPST CEILING MOUNTED
- M2 — SWITCH - DPDT 2-CHANNEL HI-LOW CONTROL
- MD — SWITCH - SPST DIMMER 0-10V OR W/ 10V-ELV POWER PACK ADAPTER
- MP — SWITCH - SPST W/ AMBIENT LIGHT SENSOR (DAYLIGHT HARVESTING)
- M2P — SWITCH - DPDT W/ AMBIENT LIGHT SENSOR
- MDP — SWITCH - SPST DIMMER W/ AMBIENT LIGHT SENSOR 0-10V OR W/ 10V-ELV POWER PACK ADAPTER
- PE — LOCAL-ONLY PHOTOCELL W/ INTEGRAL DIMMER (0-10V OR ELV W/ POWER PACK ADAPTER AS REQD)

ADJUSTABLE PICKUP LEVEL FOR DAYLIGHT HARVESTING

LIGHTING CONTROL SYSTEM - DEVICES @ +46" UON

- MS — MASTER LIGHTING CONTROL STATION
- OV — SYSTEM OCCUPANCY/VACANCY SENSOR
- RCP# — ROOM CONTROLLER PANEL
- SYSTEM LIGHTING CONTROL STATION
- PS — SYSTEM PHOTOCELL SENSOR - CEILING UON

EQUIPMENT, CONTROLS & CONNECTIONS

- DISTIBUTION BOARD / SWITCHGEAR
- PANELBOARD - FLUSH, SURFACE
- TRANSFORMER
- GROUNDING BUS BAR
- VFD — VARIABLE FREQUENCY DRIVE
- ENCLOSED CIRCUIT BREAKER
- DISCONNECT SWITCH: 30/3 UON. F=FUSED (FPEN), N=NONFUSED
- RELAY
- CONTACTOR W/ INTEGRAL HOA SELECTOR
- MOTOR STARTER W/ INTEGRAL CONTROL TRANSFORMER, PILOT LIGHT & HOA SELECTOR
- COMBINATION STARTER & FUSIBLE DISCONNECT, 30/3, SIZE 1 UON
- SINGLE-PHASE MOTOR CONTROL ASSEMBLY: HP-RATED SWITCH AND POWER RELAY - 20/1 UON
- JUNCTION BOX - SIZE PER NEC REQUIREMENTS
- WALL MOUNTED JUNCTION BOX
- PULLBOX - SIZE AND LOCATION AS SCHEDULED (OTHERWISE AS REQUIRED BY CODE)
- CONTROL STATION - FUNCTION AS INDICATED, +46" UON
- SHUNT TRIP STATION - +72" AFF UON
- MOTOR
- SIGN — SIGN OUTLET
- EQUIPMENT PACKAGE - TYPE AS INDICATED

SPECIALTY EQUIPMENT

DOUBLE SINGLE

- ELECTRIC VEHICLE EVSE CHARGING STATION, LEVEL 2 UON, PEDESTAL MOUNT UON. OFCI.

FEEDERS AND CIRCUITING

ABOVE FLOOR OR GRADE	PRIMARY
BELOW FLOOR OR GRADE	SECONDARY
TURN UP	COMMUNICATIONS
TURN DOWN	SERVICE GROUND POINT
STUB OUT & CAP	SEAL-OFF FITTING

- TICS = NUMBER OF CIRCUIT WIRES IF MORE THAN TWO (/ = ISOLATED OR REDUNDANT GROUND WIRE)
- HOMERUN: REPRESENTATION (EXAMPLE: 6#12 + 1#12 GROUND WIRE IN MIN. 3/4" C. UON TO PANEL 'A', CIRCUITS 1,3,5) — A-1,3,5

POWER RECEPTACLES @ +18" UON (DECORA STYLE UON)

CEILING OR CASEWORK WALL

- DUPLEX
- DUPLEX - INTEGRAL GFCI CIRCUITRY
- DUPLEX - HALF SWITCHED WITH "CONTROLLED" TEXT OR "⏻" SYMBOL ENGRAVING ON RECEPTACLE FACE
- DUPLEX - DOUBLE
- DUPLEX - DOUBLE, SERVED BY UPS POWER SOURCE (BLUE FACE) NEMA 5-20R
- DUPLEX - SERVED BY UPS POWER SOURCE (BLUE FACE) NEMA 5-20R
- DUPLEX - HOSPITAL GRADE (GREEN DOT) NEMA 5-20R/HG
- RECEPTACLE - SINGLE REGRESSED (CLOCK STYLE) HEIGHT AS INDICATED
- RECEPTACLE - SPECIAL (RATING AS INDICATED)
- RECEPTACLE - 30A. 125/250V. NEMA 14-30R (CLOTHES DRYER TYPE)
- RECEPTACLE - 50A. 125/250V. NEMA 14-50R (DOMESTIC RANGE TYPE)
- RECEPTACLE - 30A. 125/250V. NEMA L14-30R (TWIST LOCK TYPE)
- TELE-POWER POLE (+ UON)
- SURFACE RACEWAY SYSTEM

RECEPTACLES & OUTLETS - MOUNTING AND ASSEMBLIES

- DEVICE MOUNTED IN OR ABOVE COUNTER BACKSPLASH MAX HEIGHT TO BE +46" UON (PER ADA)
- DEVICES MOUNTED IN MULTIPLE UNDER COMMON COVERPLATE. MAX HEIGHT TO BE +46" UON (PER ADA)

FLOOR BOXES

RAISED FLOORS: FLOOR BOXES IN RAISED AREAS SHALL BE DROP-IN STYLE, 8-GANG, COMBINATION POWER+DATA WITH FLUSH LFT-LID COVER AND REGRESSED OUTLETS AND DEVICES. COVER SHALL RECEIVE MATCHING FLOOR COVERING, EXPOSED TRIM COLOR AS SELECTED BY ARCHITECT. POWER OUTLETS AS INDICATED, SEE ITS- DRAWINGS FOR DATA OUTLET REQUIREMENTS. FEED WITH 6' WHIP FROM FIXED J-BOX(ES): FLOOR BOX SYSTEMS #PMC47X SERIES (OR APPROVED EQUAL) UON.
CONCRETE SLABS: FLOOR BOXES IN CONCRETE SLABS SHALL BE ROUND PLASTIC WITH FLUSH COVER AND REGRESS OUTLETS: HUBBELL #S1PFB-S1SP SERIES.

- DUPLEX (DOUBLE-DUPLEX)
- VOICE / DATA OUTLET (2 PORTS) - W/ 1" LOW VOLTAGE CONDUIT TO ACCESSIBLE ATTIC.
- COMBINATION DUPLEX +2 PORT VOICE / DATA - W 1" LOW VOLTAGE CONDUIT TO ACCESSIBLE ATTIC

FLOOR BOXES

911/DISPATCH RAISED FLOORS: SIMILAR TO STANDARD RAISED FLOOR BOX EXCEPT WITH: (8) VOICE/DATA PORTS, (2) DOUBLE DUPLEX (BLUE DEVICES ON UPS POWER), (1) DUPLEX (STANDARD POWER), OR (2) DUPLEX (BLUE DEVICES ON UPS POWER) OR AS DEVICES ARE SHOWN ON PLANS. FLOOR BOX SYSTEM PMC47X SERIES (OR APPROVED EQUAL)

- DOUBLE DUPLEX (DOUBLE-DUPLEX)
- DUPLEX (SINGLE DUPLEX)
- DOUBLE DOUBLE DUPLEX(DOUBLE DOUBLE DUPLEX) AND DUPLEX (SINGLE DUPLEX)

MODULAR FURNITURE CONNECTIONS

LOCATIONS ARE DIAGRAMMATIC. TERMINATE AND CONNECT 8 CONDUCTOR SERVICE WHIP AS PROVIDED BY AND COORDINATED WITH FURNITURE. CIRCUIT UTILIZATION VARIES WITH NORMAL AND UPS SOURCES AS SHOWN BY CIRCUITING ON PLANS. COORDINATE WITH FURNITURE INSTALLER BEFORE ROUGH-IN.

- ACCESS FLOOR POWER CONNECTION. PROVIDE COMBINATION POWER/DATA BOX AND COVERS: HUBBLE/LEGRAND OR EQUAL.
- WALL POWER CONNECTION. MINIMUM 4 SQUARE BOX @+18" AFF UON.

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- 1 04/27/2021: PLAN REVIEW
- 3 11/08/2021: ISSUED FOR CONSTRUCTION

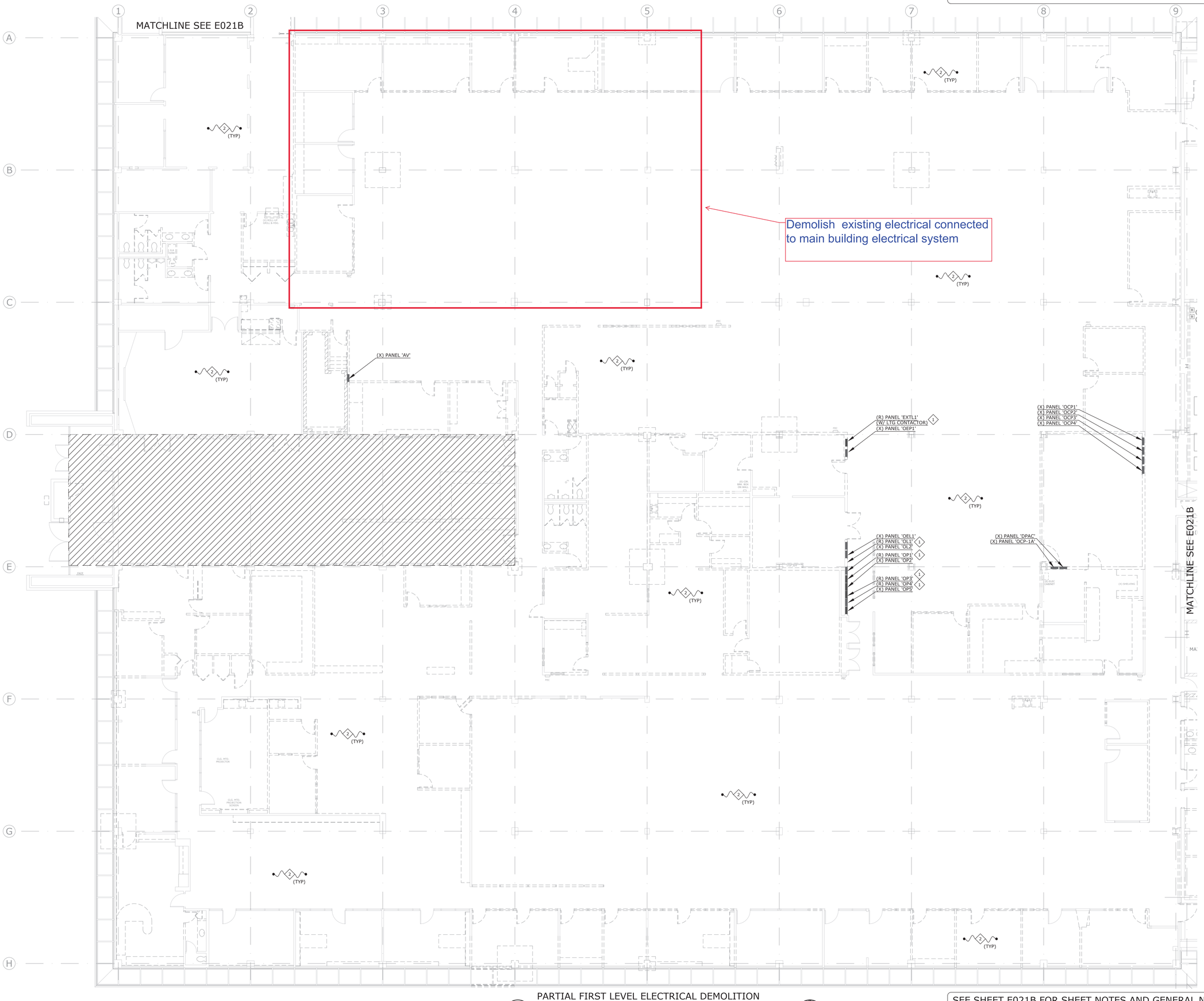
Sheet Title :
ELECTRICAL SYMBOL LIST AND DRAWING INDEX

project no: MBA1925
date: 11/08/21
drawing name: R19061-E001

Sheet No :
PSC REMODEL
E001

June 16, 2022 E911 Special Committee Meeting

SEE SHEET E021B FOR SHEET NOTES AND GENERAL NOTES



A
E021A
PARTIAL FIRST LEVEL ELECTRICAL DEMOLITION FLOOR PLAN - AREA 'A'
1/8" = 1'-0"

0' 2' 4' 8' 16'
NORTH

SEE SHEET E021B FOR SHEET NOTES AND GENERAL NOTES

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11/08/2021

Revisions :

Sheet Title :
PARTIAL FIRST LEVEL ELECTRICAL DEMOLITION FLOOR PLAN - AREA 'A'

project no: MBA1925
date: 11/08/21
drawing name: R19061-E021A_B

Sheet No :
PSC REMODEL
E021A

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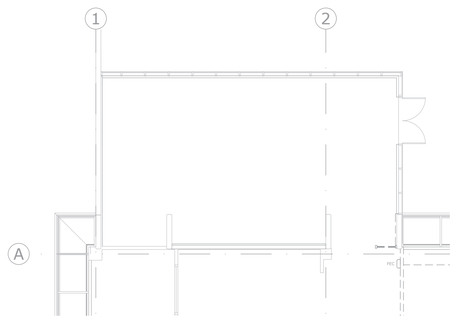


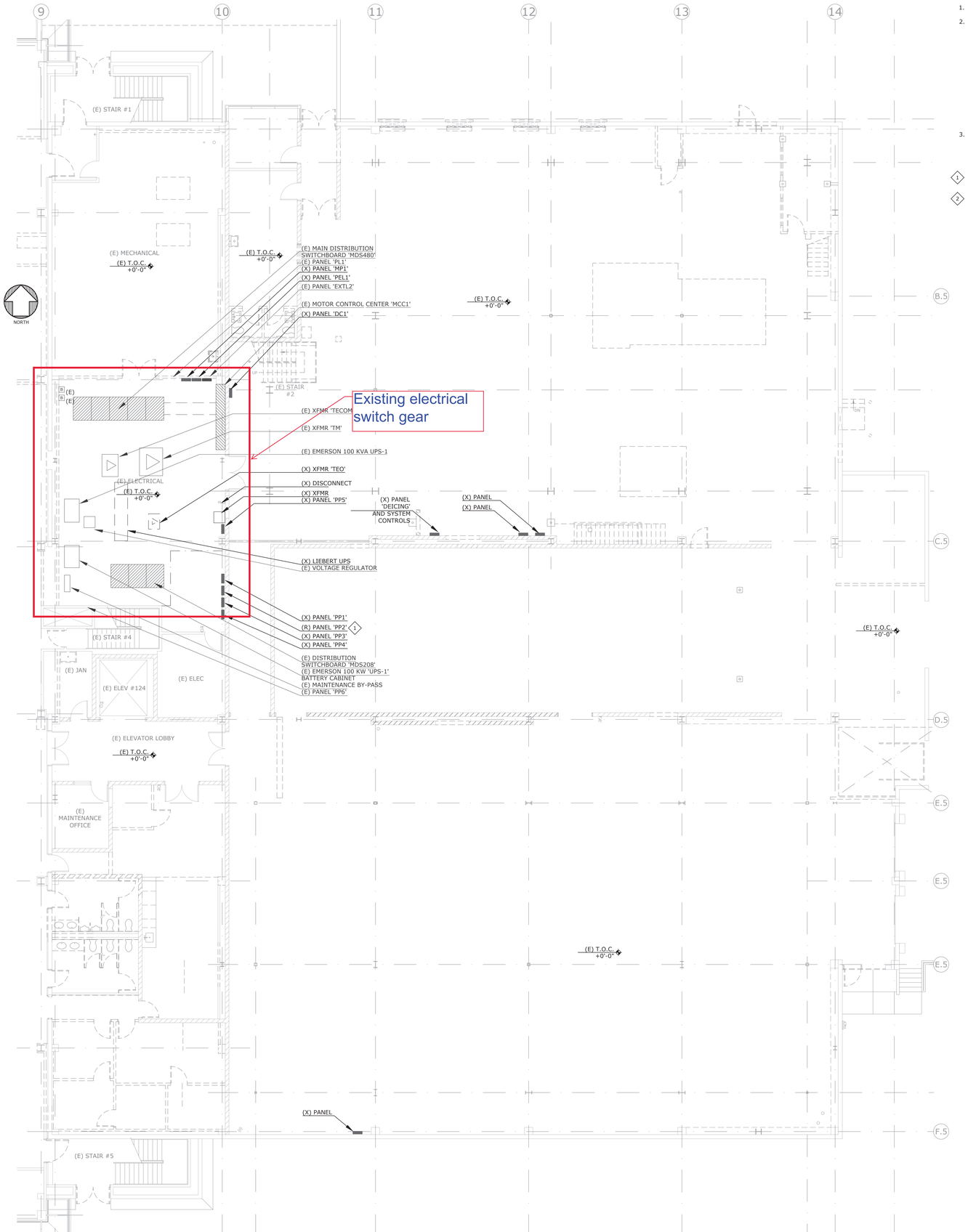
B
E021B

PARTIAL FIRST LEVEL ELECTRICAL DEMOLITION
FLOOR PLAN - AREA 'A'

1/8" = 1'-0"

0' 2' 4' 8' 16'

NORTH



A
E021B

PARTIAL FIRST LEVEL ELECTRICAL DEMOLITION
FLOOR PLAN - AREA 'B'

1/8" = 1'-0"

0' 2' 4' 8' 16'

NORTH

GENERAL NOTES:

1. MAINTAIN EXISTING CIRCUIT CONTINUITY TO EXISTING DEVICES TO REMAIN.
2. GENERAL DEMOLITION: EXCEPT AS OTHERWISE INDICATED, PERFORM A COMPLETE ELECTRICAL DEMOLITION OF EXISTING LIGHTING, RECEPTACLES, EQUIPMENT CONNECTIONS, LOW VOLTAGE WIRING AND RACEWAYS AND BRANCH CIRCUITING. EXISTING RACEWAY SYSTEMS IN GOOD CONDITION MAY BE REUSED WITH NEW WIRING. OTHER ABOVE-GROUND RACEWAY SYSTEMS SHALL BE REMOVED IN THEIR ENTIRETY. UNDERGROUND RACEWAYS WHICH ARE ABANDONED IN THIS DEMOLITION MAY REMAIN IF THEY DO NOT CONFLICT WITH NEW CONSTRUCTION AND/OR THE APPEARANCE AND FUNCTION OF THE FINISHED PROJECT, OTHERWISE CUT OFF FLUSH WITH SURFACE AND PLUG WITH GROUT. EXISTING RACEWAY SYSTEMS WHICH COULD BE DEEMED TO BE OF VALUE FOR FUTURE UTILIZATION MAY REMAIN UPON APPROVAL OF THE ENGINEER AND AHJ. SOME EXISTING ELECTRICAL SYSTEMS SHALL REMAIN (ELEVATOR, SOME HVAC EQUIPMENT, GENERATOR FUEL PUMPS, GENERATOR STATUS, ETC.). INTERCEPT/EXTEND/RELOCATE AS REQUIRED TO PROTECT AND MAINTAIN MAINTAIN THESE SYSTEMS. SEE ALSO SHEET M023 FOR DEMO OF MECHANICAL EQUIPMENT.
3. SEE SHEETS A201A.0 AND A201B.0 FOR EXTENT OF CONCRETE AND RAISED FLOORS.

SHEET NOTES: (MASTER LIST)

1. REMOVE THIS PANEL, REPLACE WITH NEW PANEL. EXTEND AND RECONNECT (E) FEEDER.
2. ALL AREAS (EXCLUDING HATCHED AREA) IS COMPRISED OF A RAISED FLOOR SYSTEM: PROVIDE COMPLETE DEMOLITION OF ELECTRICAL OUTLETS AND BOXES IN RAISED FLOOR PANELS. REMOVE (X) CIRCUITING BENEATH RAISED FLOOR.

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PARTIAL FIRST LEVEL ELECTRICAL DEMOLITION FLOOR PLAN - AREA 'B'

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drawing name: R19061-E021A_B

Sheet No :
PSC REMODEL
E021B

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SEE SHEET E201B FOR SHEET NOTES AND GENERAL NOTES

Dispatch area highlighted
All new electrical for Dispatch dedicated electrical system.

911/DISPATCH
PHASE 3
SEE SHEET E401

A E201A PARTIAL FIRST LEVEL POWER FLOOR PLAN - AREA 'A'
1/8" = 1'-0"
0' 2' 4' 8' 16'
NORTH

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Sheet Title :
PARTIAL FIRST LEVEL POWER FLOOR PLAN - AREA 'A'

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Sheet No :
PSC REMODEL
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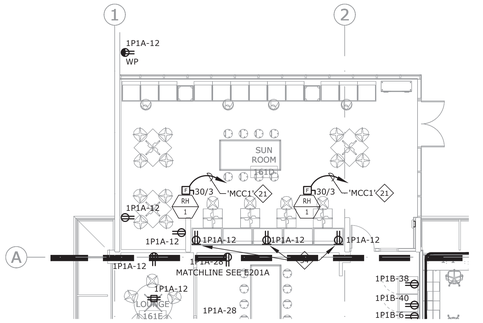

B E201B PARTIAL FIRST LEVEL SUN ROOM POWER FLOOR PLAN - AREA 'A'

1/8" = 1'-0"

0' 2' 4' 8' 16'

NORTH

FOOD SERVICE SYSTEM NOTES

1. THESE DRAWINGS INDICATE ELECTRICAL POWER FEEDS ONLY TO FOOD SERVICE EQUIPMENT AND SYSTEMS. SEE FOOD SERVICE DRAWINGS (FS- SERIES) PREPARED BY THE FOOD SERVICE CONSULTANT FOR EXPLANATIONS OF LOADS, SYMBOLS, MOUNTING HEIGHTS, ETC., AND FOR ADDITIONAL ELECTRICAL REQUIREMENTS NOT INDICATED ON THESE DRAWINGS, INCLUDING:

   EXTENSIONS TO EQUIPMENT FROM OUTLET BOXES, SPECIALTY RECEPTACLES, CORD SETS, MULTIPLE CONNECTIONS FROM SINGLE OUTLETS, POWER AND CONTROL INTER- CONNECTIONS FROM COMPRESSOR RACK TO FIELD EQUIPMENT AND MISCELLANEOUS POWER AND CONTROL INTERCONNECTIONS.

2. SEE OVERALL FOOD SERVICE DRAWINGS FOR DESCRIPTIONS OF EQUIPMENT AND SYSTEMS.

3. ALL CONDUIT STUB-UPS, AS INDICATED ON THE FOOD SERVICE EQUIPMENT DRAWINGS, SHALL BE ROUTED BELOW FINISHED FLOOR, 3/4" MINIMUM, UNLESS OTHERWISE NOTED AS LARGER.

4. ALL RECEPTACLES WITHIN FOOD SERVICE AREAS SHALL BE 'GFCI' TYPE. CONCEALED RECEPTACLES SHALL BE PROTECTED BY GFCI CIRCUIT BREAKERS IN PANEL.

5. ALL DEVICE COVERPLATES SHALL BE STAINLESS STEEL.

6. FINAL CONNECTION TO ALL FOOD SERVICE EQUIPMENT SHALL BE MADE WITH 'SEAL-TITE' FLEXIBLE CONDUIT.

7. PROVIDE MOISTURE PROOF SEAL OFFS FOR ALL CONDUITS ENTERING/LEAVING COOLER AND FREEZER BOXES. ASSEMBLE, INSTALL AND LAMP LIGHTING FIXTURES AND WIRING DEVICES PROVIDED WITH COOLERS AND FREEZERS. PROVIDE COMPLETE INTERNAL CIRCUITING AND CONNECTIONS.

8. PROVIDE RACEWAY SYSTEMS FOR REFRIGERATION AND BEVERAGE SERVICE LINES AS DIRECTED IN FOOD SERVICE DRAWINGS (ALL LONG-RADIUS SWEEPS). PROVIDE PULL CANS AND GUTTERS AS REQUIRED. ASSEMBLE ALL RACEWAY SYSTEM JOINTS WITH SILICONE CAULK TO PROVIDE A CONTINUOUS WATERTIGHT ASSEMBLY.

9. IT IS ANTICIPATED THAT CERTAIN FOOD SERVICE EQUIPMENT WILL BE DELIVERED TO THE PROJECT WITH DIFFERENT LOADS AND VOLTAGE/PHASE REQUIREMENTS THAN ORIGINALLY DESIGNED. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BASE BID AN ALLOWANCE SUFFICIENT TO COVER RECIRCUITING AND RECONNECTION OF INSTALLED WORK FOR THE FOLLOWING ITEMS:

   CHANGE (2) EQUIPMENT ITEMS FROM SINGLE-PHASE TO THREE-PHASE OR FROM THREE-PHASE TO SINGLE-PHASE, SAME OR SIMILAR LOAD.

GENERAL NOTES:

1. PROVIDE TAMPER PROOF RECEPTACLES IN ALL WAITING AREAS, HOLDING, INTERVIEW AND SPACES ACCESSED BY THE PUBLIC.

2. TO ENSURE COORDINATION, VERIFY ALL DEVICE LOCATIONS AND HEIGHTS WITH ARCHITECTURAL, FURNITURE AND ALL OTHER DISCIPLINES PRIOR TO STARTING WORK. RECEPTACLES SHALL NOT BE MADE INACCESSIBLE BY FURNITURE.

3. EXTERIOR RECEPTACLES SHALL HAVE PAD LOCKABLE-IN-USE COVERS.

4. ALL CONNECTIONS, PENETRATIONS AND CONDUITS EXPOSED TO WEATHER SHALL BE WEATHERPROOF (NEMA-3R).

5. VERIFY NEMA CONFIGURATION OF RECEPTACLES PROVIDED FOR EQUIPMENT WITH THE EQUIPMENT PRIOR TO STARTING WORK.

6. COORDINATE THE INSTALLATION OF (R) PANELS WITH THE INSTALLATION OF NEW WALLS OR STRUCTURAL WORK. REFER TO ARCHITECTURAL AND STRUCTURE FOR WALL WORK.

7. SEE SHEET G201 FOR FIRE-RATED WALLS.

SHEET NOTES: (SHEETS E201A, E201B, E401)

1. EXTEND AND CONNECT CIRCUITING FROM JUNCTION BOX TO OUTLETS IN AREA WITH SAME CIRCUIT NUMBERS, ROUTE #12 CONDUCTORS (MINIMUM) THROUGHOUT, UON. TYPICAL ALL CIRCUITS ALL HOMERUNS. #10 IF MORE THAN (3) CIRCUITS.
2. PROVIDE FULLY COORDINATED SHOP DRAWINGS WITH WORKING CLEARANCES INDICATED FOR ALL AREAS WITH NEW ELECTRICAL EQUIPMENT AND ARE TO INCLUDE EXISTING EQUIPMENT IN RELATION TO NEW EQUIPMENT.
3. FROM FLOOR BOX IN CONCRETE FLOOR.
4. CONNECT TO MOTORIZED PEDESTRIAN DOOR ASSEMBLY.
5. CONNECT FIRE ALARM CONTROL PANEL. COORDINATE ACTUAL LOCATION WITH DESIGN BUILD FIRE ALARM DESIGNER.
6. 911/DISPATCH-PHASE 3: PROVIDE EQUIPMENT UNDER PHASE 3.
7. 911/DISPATCH-PHASE 3: PROVIDE CONDUIT, WIRE, AND CONNECTIONS UNDER PHASE 3.
8. 911/DISPATCH-PHASE 3: PROVIDE CONDUIT PULLBOX UNDER BASE BID. PROVIDE WIRE AND CONNECTIONS UNDER PHASE 3.
9. SEE SHEET E701 FOR FURTHER INFORMATION.
10. TO GENERATOR 'EG-911' LOCATED ON SITE. SEE SHEET E400.
11. MOUNT ON 4" HOUSEKEEPING PAD AND SEISMICALLY RESTRAIN.
12. CONNECT BUILDING MANAGEMENT SYSTEM. SEE MECHANICAL AND CONTROLS.
13. CONNECT LIGHTING CONTROL SYSTEM. SEE LIGHTING DESIGNERS LP SERIES PACKAGE FOR LIGHTING CONTROL CRITERIA.
14. LEGRAND 5400 SERIES WALL MOUNTED SURFACE MOUNT RACEWAY @ +96" FOR TV'S. MOUNT ABOVE EXERCISE EQUIPMENT RECEPTACLES.
15. CONNECT EMERGENCY ALARMS. COORDINATE LOCATIONS AND NECESSARY CONNECTIONS WITH EMERGENCY ALARMS DESIGN BUILDER. REFER TO ARCHITECTURAL FOR DESIGN BUILD SCOPE.
16. IN 911/DISPATCH AND RELATED ROOMS AND SPACES, ALL CRITICAL OPERATIONS POWER ("COPS") SUPPLY BOXES, ENCLOSURES, SWITCHES GENERATOR, PANELS AND RECEPTACLES SHALL BE PERMANENTLY MARKED AND READILY IDENTIFIED AS A COMPONENT OF THE CRITICAL OPERATIONS POWER SUPPLY PER N.E.C. 708.10(A)(1) & (2). 2 HOUR RATED SPACES: FOR RATINGS SEE ARCHITECTURAL. REFER TO SHEET NOTE 7 ON SHEET E700 FOR 2-HOUR FIRE RESISTIVE CIRCUITING REQUIREMENTS. NEW RAISED FLOOR IN DISPATCH SEE ARCHITECTURAL.
17. FOR GYM EXERCISE EQUIPMENT. COORDINATE RECEPTACLE LOCATIONS WITH EQUIPMENT LAYOUTS ON ARCHITECTURAL.
18. FOR CHARGING EQUIPMENT. COORDINATE WITH ARCHITECTURAL ELEVATIONS.
19. CONNECT ILLUMINATED DISPLAY CASE.
20. WIREMOLD 5400, ROWS SEPARATED HORIZONTALLY. COORDINATE RECEPTACLES TO ALIGN WITH BODY CAM DEVICES. SEE ARCHITECTURAL ELEVATIONS SHEET A423 & A475.
21. REFER TO SHEET E701 FOR CIRCUITING / FEEDER INFORMATION.
22. INDOOR FAN COIL UNIT SERVED FROM OUTDOOR UNIT ON THE ROOF. PROVIDE INTERCONNECTIONS COMPLETE. SEE MECHANICAL DRAWINGS AND SCHEDULES FOR ADDITIONAL INFORMATION.
23. CONNECT TO QUEUING DISPLAY.
24. SAW CUT SLAB TO WALL TO SERVE FURNITURE FEEDS OR DEVICES AS SHOWN, 3/4" MINIMUM CONDUIT. COORDINATE CUT WITH FURNITURE AND FIELD CONDITIONS TO STARTING WORK.
25. PROVIDE LEGRAND VISTA POINT5 SMALL ROUND 39" HIGH POWER PEDESTAL. ANODIZED ALUMINUM. WITH TWO DUPLEX TAMPER PROOF RECEPTACLES ON THE SAME SIDE FACING THE ROOM. SAW CUT TO NEAREST WALL AND SECURE TO CONCRETE SLAB PER ARCHITECTURAL AND MANUFACTURERS INSTRUCTIONS.
26. ROUTE CONDUIT SERVING COPIER AND FURNITURE IN ONE SAW CUT. COORDINATE LOCATION PRIOR TO STARTING WORK.
27. 3 #10, 1 #10 GND, 3/4"C.
28. CONNECT WALK-IN COOLER ASSEMBLY INCLUDING LIGHTS, SWITCHES, FAN COILS AND COMPRESSOR.
29. CONNECT KEYTRACER PER MANUFACTURERS INSTRUCTIONS.
30. REMOTE STATUS/ALARM PANELS FOR 'EG-911', 'EG-1', 'EG-2', 'UPS-911', 'UPS1', 'UPS2', AND 'EM1'. INTERCONNECT EACH WITH THEIR RESPECTIVE EQUIPMENT.
31. PROVIDE DISCONNECTING DEVICE. P1 & P2 ARE PROVIDED WITH HOA AS PART OF THE SKID BY PLUMBING.
32. CONNECT VIA REMOTE VFD WITH INTEGRAL DISCONNECT PROVIDED BY MECHANICAL.
33. FOR PUSH BUTTON ASSEMBLY AT RECEPTION RESTROOM DOOR TO UNLOCK DOOR VIA PUSH BUTTON AT RECEPTION DESK. COORDINATE BUTTON LOCATION WITH ARCHITECTURAL. PROVIDE 100VA CONTROL TRANSFORMER AND ASSEMBLY COMPLETE. COORDINATE DOOR STRIKE VOLTAGE WITH DOOR AND HARDWARE TYPE AND BUTTON STYLE WITH ARCHITECTURAL.
34. NOT USED.
35. CONNECT MOTORIZED SHADE ASSEMBLIES AND CONTROLS DISTRIBUTED AROUND PERIMETER WINDOWS. REFER TO LIGHTING DESIGNERS DRAWINGS FOR ADDITIONAL INFORMATION
36. VERIFY MOUNTING HEIGHTS IN FIELD WITH CASEWORK.
37. PROVIDE DUPLEX RECEPTACLE TO SERVE PRINTER.
38. CONNECT IN-ROOM POWERED FAUCETS, TOWEL/SOAP DISPENSERS, ETC.: MULTIPLE CONNECTION POINTS
39. WIREMOLD 5400, ROWS SEPARATED HORIZONTALLY. COORDINATE DEVICES WITH TASER CHARGING DEVICES. SEE ARCHITECTURAL ELEVATIONS SHEET A475.
40. WALL MOUNTED MONITOR.
41. PROVIDE THREE (1) SINGLE CHANNEL UNDERFLOOR RACEWAYS FROM DISPATCH ACCESSIBLE FLOOR TO IDF 1. PROVIDE FIRE STOP. FOR FUTURE USE TO CONNECT COMPUTER TOWERS IN IDF1 TO COMPUTER PERIPHERAL DEVICES AT 911 WORKSTATIONS.
42. CEILING MOUNTED POWER FOR MONITOR.
43. CONNECT ELECTRIC FAUCET. SEE PLUMBING.
44. IN DISPATCH '157D' ALL NORMAL BRANCH AND 911 POWER BRANCHES HOMERUNS SHALL BE #12 AWG AND EXTENDED TO OUTLETS AS CIRCUITS INDICATE. EACH CIRCUIT INDICATED SHALL BE PROVIDED WITH A DEDICATED NEUTRAL. PROVIDE CONNECTIONS COMPLETE. STANDING DESK MOTORS SHALL NOT BE PLUGGED INTO THE UPS (BLUE RECEPTACLES). IF MORE THAN (3) CIRCUITS, HOMERUN CIRCUITING SHALL BE #10.
45. IN ADDITION TO NORMAL RECEPTACLES, PROVIDE UPS SERVED BLUE RECEPTACLE IN PREWIRED FURNITURE. COORDINATE CIRCUITING WITH FURNITURE VENDOR. FOR CONNECTION TO COMPUTER TOWERS AND MONITORS ONLY.
46. CONNECT MODULAR FURNITURE FROM WALL J-BOX @ +6"AFF VIA 8-CONDUCTOR "WHIP" FURNISHED WITH FURNITURE. TYPICAL ALL.
47. CONNECT MODULAR FURNITURE FROM FLOOR BOX VIA 8-CONDUCTOR "WHIP" FURNISHED WITH FURNITURE. PROVIDE STEEL FLOOR BOX IN RAISED FLOOR PANEL, WITH BLANK COVER - FINISH AS SELECTED BY ARCHITECT. FEED FLOOR BOX WITH MINIMUM 60" WHIP FROM PERMANENT SUB-FLOOR J-BOX.
48. HOMERUN TYPICAL FOR ALL NORMAL AND UPS SERVED CIRCUITS IN DISPATCH.
49. CONNECT TO MOTORIZED ROLL-UP DOOR ASSEMBLY INCLUDING REMOTE CONTROLS AND SAFETIES.
50. CONNECT MAN-LIFT ASSEMBLY INCLUDING SAFTIES, CONTROLS, AND CALL STATIONS.
51. CONNECT ILLUMINATED BUILDING SIGNS ABOVE DOOR WAYS (MULTIPLE CONNECTION POINTS).
52. PROVIDE RECEPTACLE FOR RPD RADIO REPEATER. MOUNT IN CASEWORK OR FURNITURE AS DIRECTED.
53. PROVIDE RECEPTACLE FOR RPD RADIO REPEATER. MOUNT ON WALL AS DIRECTED.
54. PROVIDE DUPLEX RECEPTACLE WITH INTEGRAL DUAL USB CHARGE PORTS. MOUNT ABOVE SEAT BACK
55. STUB (3) 1" C. TO ACCESSIBLE ATTIC .
56. PROVIDE (4) SHUNT TRIP STATIONS. SEE 17 'E010'.
57. CONNECT FM200 FIRE SUPPRESSION SYSTEM SERVING THIS AREA. FINAL LOCATION AS DIRECTED.
58. APPROXIMATE LOCATION OF EMERGENCY BOILER SHUT-OFF SWITCH. INTERCONNECT SHUT-OFF SWITCH WITH EMERGENCY BOILER SHUT-OFF SYSTEM. PROVIDE DEDICATED 120V POWER FOR THE SYSTEM. REFER TO MECHANICAL SKETCHES MCL-06 AND MCL-07 FOR ADDITIONAL INFORMATION.

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R19061

PUBLIC SAFETY CENTER

911 KUENZLI STREET - RENO, NV

ISSUED FOR PERMIT 03/14/2021

ISSUED FOR BID 04/27/2021

ISSUED FOR CONSTRUCTION 11/08/2021

Revisions :

1 04/27/2021: PLAN REVIEW

2 11/08/2021: ISSUED FOR CONSTRUCTION

Sheet Title :

PARTIAL FIRST LEVEL POWER FLOOR PLAN - AREA 'B'

project no: MBA1925

date: 11/08/21

drawing name: R19061-E201A_B

Sheet No :

PSC REMODEL

E201B

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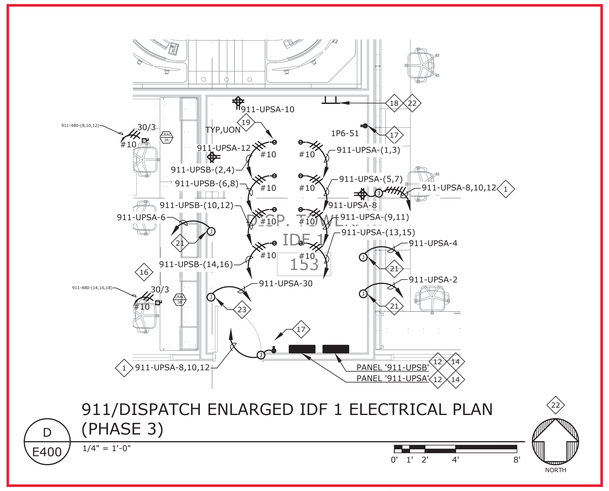
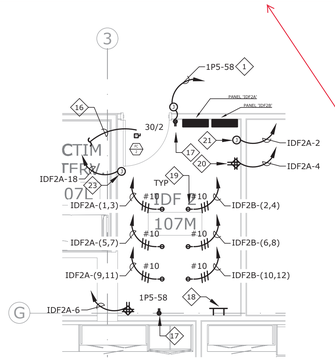


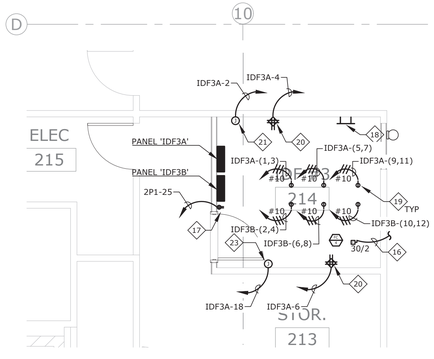
911/DISPATCH ENLARGED IDF 1 ELECTRICAL PLAN (PHASE 3)

D / E400 — 1/4" = 1'-0"

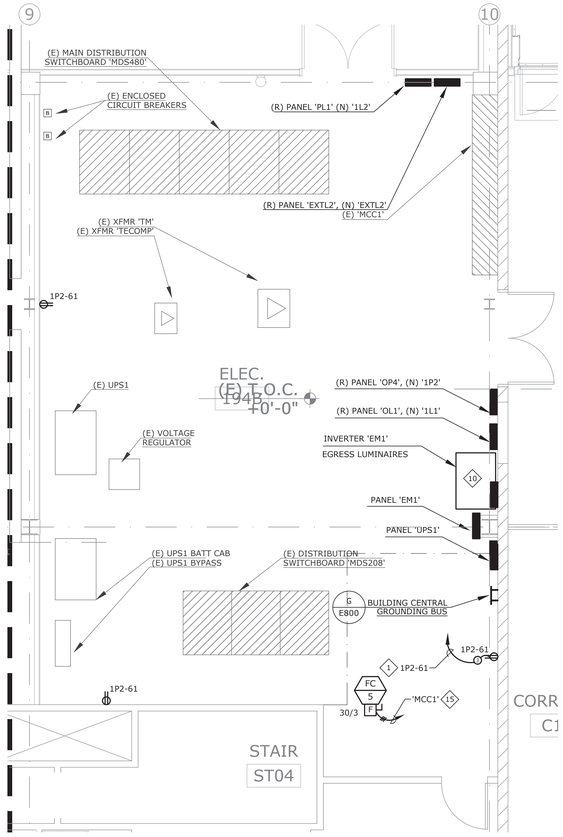
IDF room dedicated to Dispatch



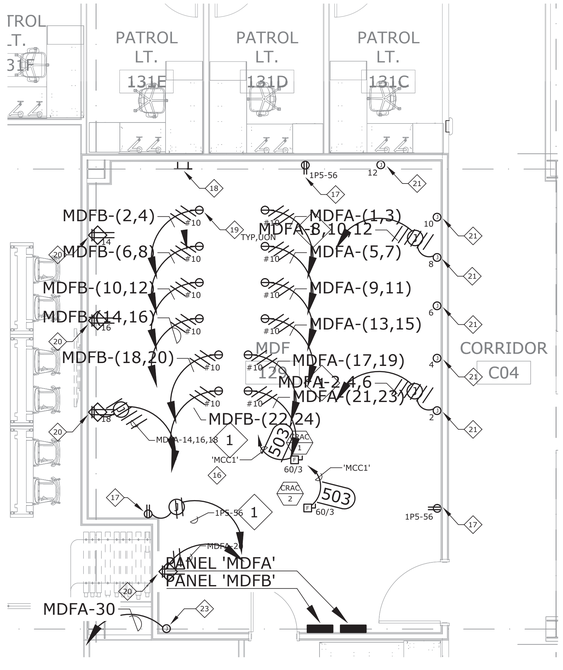
E / E400 — ENLARGED IDF 2 ELECTRICAL PLAN — 1/4" = 1'-0"



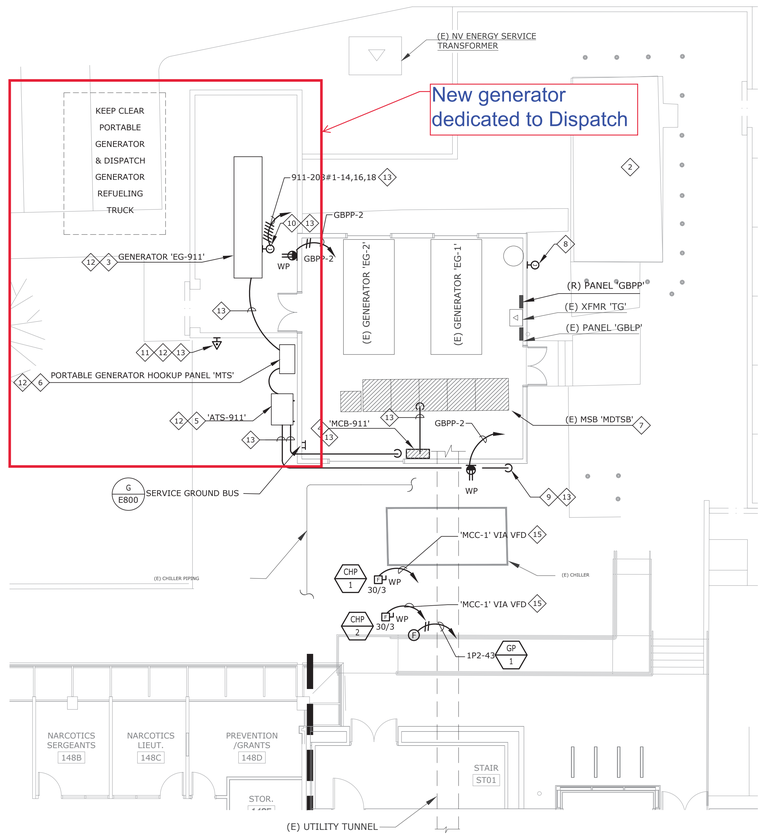
F / E400 — ENLARGED IDF 3 ELECTRICAL PLAN — 1/4" = 1'-0"



B / E400 — ENLARGED ELECTRICAL ROOM - AREA 'A'



C / E400 — ENLARGED MDF ELECTRICAL PLAN — 1/4" = 1'-0"



A / E400 — ENLARGED EXISTING GENERATOR BUILDING — 1/8" = 1'-0"

A/E400 GENERAL NOTES

1. SEE ALSO SHEET E201B FOR ADDITIONAL INFORMATION AND COORDINATION.

SHEET NOTES

1. EXTEND AND CONNECT CIRCUITING FROM JUNCTION BOX TO OUTLETS IN AREA WITH SAME CIRCUIT NUMBERS, ROUTE #12 CONDUCTORS (MINIMUM) THROUGHOUT, UNLESS NOTED OTHERWISE.
2. FOR REFERENCE PURPOSES ONLY. EXISTING DIESEL FUEL TANK.
3. 911 - GENSET. NFPA 110 LEVEL 1, AUTOMATIC STATIONARY GENSET ON 1" HIGH SEISMIC FOUNDATION. NEMA 3R SOUND ATTENUATED ENCLOSURE. BELLY TANK WITH MINIMUM 72 HOUR RUN TIME. 50kW AUTOMATIC LOAD BANK. LOCAL AND TWO REMOTE LOCATIONS FOR MONITORING AND ANNUNCIATION.
4. 911-480 SERVICE ENTRANCE EQUIPMENT STRUT MOUNTED TAPPED FROM LINE SIDE OF UTILITY. LOCATE EQUIPMENT AND ROUTE CONDUIT TO NOT EXCEED 10 FEET OF TAP.
5. 911 AUTOMATIC TRANSFER SWITCH. REFER ALSO TO SHEET NOTE 16 SHEET E201B.
6. 911 PORTABLE GENERATOR HOOK-UP PANEL. REFER ALSO TO SHEET NOTE 16 SHEET E201B.
7. (E) MAIN DISTRIBUTION AND PARALLELING GEAR AND TRANSFER SWITCH 'MDTSB'.
8. (E) WEATHERPROOF CONNECTION TO IRRIGATION CONTROLLER. SEE LANDSCAPE. INTERCEPT AND EXTEND EXISTING CONTROLLER CIRCUIT TO NEW CONTROLLER.
9. SEE SHEET E201 FOR CONTINUATION TO PANEL 911-480.
10. CONNECT TO GENERATOR HEATERS AND BATTERY CHARGING.
11. GENERATOR EMERGENCY STOP SWITCH.
12. 911/DISPATCH-PHASE 3: PROVIDE EQUIPMENT UNDER PHASE 3.
13. 911/DISPATCH-PHASE 3: PROVIDE CONDUIT, WIRE, AND CONNECTIONS UNDER PHASE 3.
14. 911/DISPATCH-PHASE 3: PROVIDE CONDUIT UNDER BASE BID. PROVIDE WIRE AND CONNECTIONS UNDER PHASE 3.
15. SEE SHEET E701 FOR FURTHER INFORMATION.
16. INDOOR FAN COIL SERVED FROM OUTDOOR UNIT ON THE ROOF. PROVIDE INTERCONNECTIONS COMPLETE. SEE MECHANICAL DRAWINGS AND SCHEDULES FOR ADDITIONAL INFORMATION.
17. HOUSEKEEPING RECEPTACLE.
18. GROUND BUS. SEE ITS DRAWINGS AND G / E800
19. 30A, 120/250V-1PHASE, 3 WIRE TWISTLOCK RECEPTACLE. MOUNT ON LADDER RACK AS DIRECTED. COORDINATE TYPE AND LOCATION WITH ITS INSTALLER.
20. DOUBLE-DUPLEX UPS-POWERED RECEPTACLE (BLUE).
21. CONNECT SECURITY, CONTROL, AND ALARM SYSTEMS HEAD-END EQUIPMENT. LOCATIONS AND TYPES AS DIRECTED.
22. ESTABLISH GROUND BUS UNDER BASE BID. ALL OTHER ELECTRICAL WORK IS PHASE 3.
23. CONNECT 120V LIGHTING CONTROL PANELS - MULTIPLE CONNECTION POINTS.

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ENLARGED ELECTRICAL PLANS

project no: MBA1925
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Sheet No :
PSC REMODEL
E400

NAC 623.780

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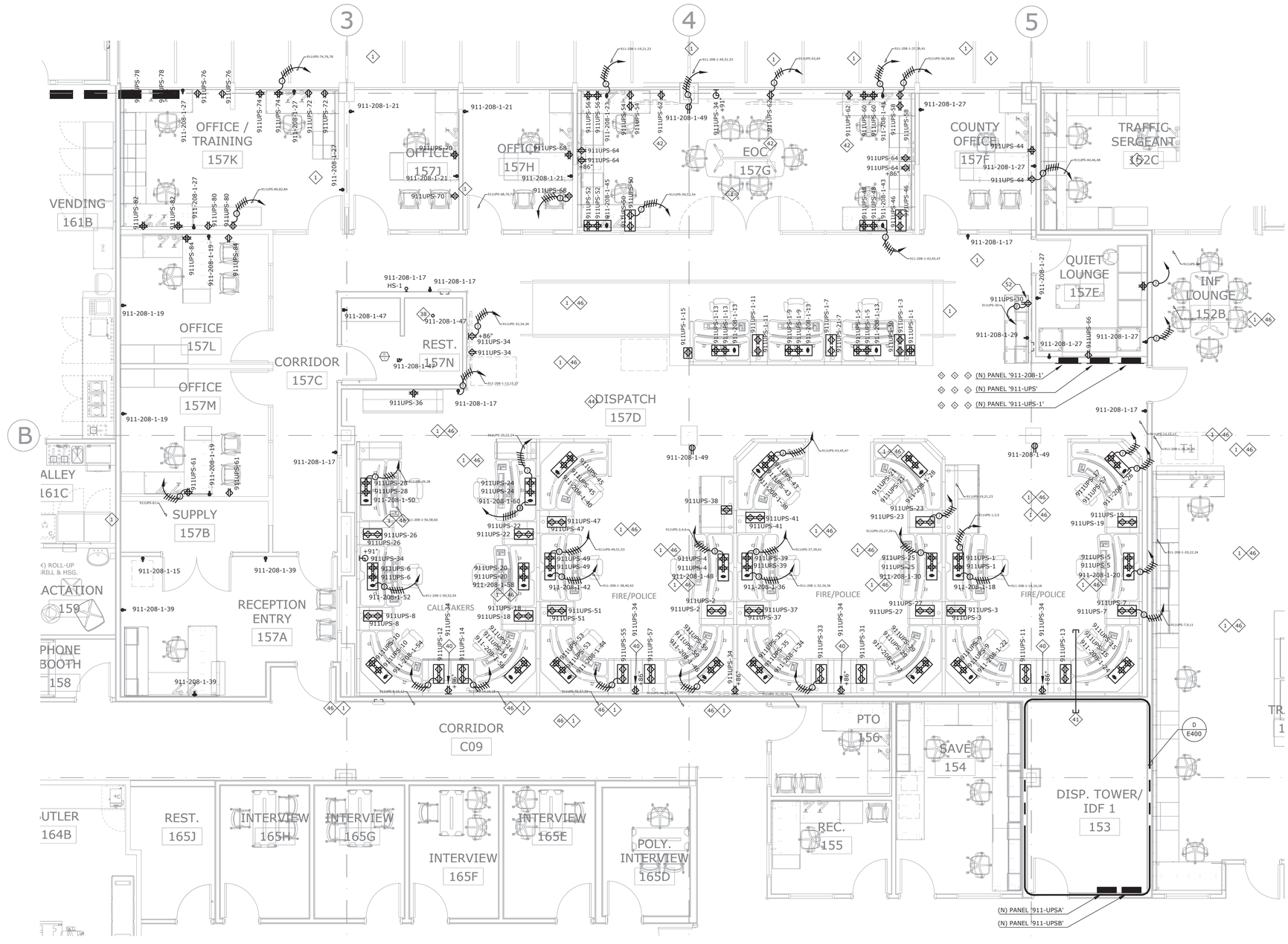

A E401 DISPATCH - ENLARGED ELECTRICAL PLAN 16
1/4" = 1'-0"
0' 1' 2' 4' 8'
NORTH

SEE SHEET E201B FOR SHEET NOTES AND GENERAL NOTES

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Sheet No :
PSC REMODEL
E401

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NAC 623.780

NEW PANEL '911-480' SCHEDULE (5)

LOCATION: DISPATCH UPS ROOM 194E

NOTE	TYPE	DESCRIPTION	LOAD	BREAKER	CKT		CKT	BREAKER	DESCRIPTION	TYPE	NOTE
(2)	L	1ST FLOOR DISPATCH	2341	20/1	1	2	200		25333 XFMR 'T-911'		
		SPARE		20/1	3	4			25333 SUB FEED MAIN BREAKER		
		SPARE		20/1	5	6	3		25333 -		
		SPARE		20/1	7	8	30	4450	CRAC-3A	M	
		SPARE		20/1	9	10		4450	-	M	
		SPARE		20/1	11	12	3	4450	-	M	
		SPARE		20/1	13	14	30	0	CRAC-3B	M	(4)
		SPARE		20/1	15	16		0	-	M	
		SPARE		20/1	17	18	3	0	-	M	
		SPACE			19	20	15	1000	CCU-3A	M	
		SPACE			21	22		1000	-	M	
		SPACE			23	24	3	1000	-	M	
		SPACE			25	26	15	0	CCU-3B	M	
		SPACE			27	28		0	-	M	(4)
		SPACE			29	30	3	0	-	M	
		SPACE			31	32	40	7500	RTU-2A	M	
		SPACE			33	34		7500	-	M	
		SPACE			35	36	3	7500	-	M	
	M	RTU-1	5825	30	37	38	40	7500	RTU-2B	LM	
	M	-	5825		39	40		7500	-	LM	
	M	-	5825	3	41	42	3	7500	-	LM	

VOLTS: (●) 480 /277V, 3Ø, 4W.
AMPS: ( ) 100A (●) 225A ( ) 400A ( ) _____
MAIN: ( ) MCB _____ (●) MLO
LUGS: ( ) DBL. LUGS ( ) FEED-THRU
MTD: ( ) SURFACE (●) FLUSH
BUSS: (●) COPPER ( ) ALUMINUM
DOOR: (●) DOOR IN DOOR ( ) STANDARD
NEMA RATING: 1
NEUTRAL BUS: ( ) 100% ( ) 200%
GROUND BUS: (●) STANDARD ( ) ISOLATED
AIC RATING: ( ) 10K ( ) 14K ( ) 22K ( ) _____
SERIES RATING: ( ) _____ / _____

LOADS BY PHASE:
AØ: 54 KVA (195 A)
BØ: 52 KVA (186 A)
CØ: 52 KVA (186 A)

LOAD-TYPE SUBTOTALS:
LIGHTING: 2 KVA
FOOD SERVICE: 0 KVA
LARGEST MOTOR: 22 KVA

LOAD SUBTOTAL: 157 KVA (189 A)

NEC FACTORED LOADS:
LOAD FACTOR AT 1.25: 3 KVA (3 A)
LOAD FACTOR AT 0.65 0 KVA (0 A)
LOAD FACTOR AT 1.25: 28 KVA (33 A)

CALCULATED LOAD: 163 KVA (196 A)

NEW PANEL '911-208' SCHEDULE (5)

LOCATION: DISPATCH UPS ROOM 194E

NOTE	TYPE	DESCRIPTION	LOAD	BREAKER	CKT		CKT	BREAKER	LOAD	DESCRIPTION	TYPE	NOTE
		SPARE		20/1	1	2	40	3	2880	CU-3	M	
		SPARE		20/1	3	4			2880	-	M	
		SPARE		20/1	5	6	20/1			SPARE		
		SPARE		20/1	7	8	100	3	8000	PANEL '911-208-1'		
		SPARE		20/1	9	10			9000	SUB FEED MAIN BREAKER		
		SPARE		20/1	11	12	3		9000	-		
		SPARE		20/1	13	14	20/1		1000	GENERATOR HEATER	O	
		SPARE		20/1	15	16	20/1		1000	GENERATOR BATTERY CHARGING	O	
		SPARE		20/1	17	18	20/1		1000	GENERATOR DEICING HEATER	O	
		SPARE		20/1	19	20	20/1			SPARE		
		SPARE		20/1	21	22	20/1			SPARE		
		SPARE		20/1	23	24	20/1			SPARE		
		SPARE		20/1	25	26	20/1			SPARE		
		SPARE		20/1	27	28	20/1			SPARE		
		SPARE		20/1	29	30	20/1			SPARE		
					31	32						
					33	34						
					35	36						
					37	38						
					39	40						
					41	42						

VOLTS: (●) 208 /120V, 3Ø, 4W.
AMPS: ( ) 100A (●) 225A ( ) 400A ( ) _____
MAIN: (●) MCB 150/3 ( ) MLO
LUGS: ( ) DBL. LUGS ( ) FEED-THRU
MTD: (●) SURFACE ( ) FLUSH
BUSS: (●) COPPER ( ) ALUMINUM
DOOR: (●) DOOR IN DOOR ( ) STANDARD
NEMA RATING: 1
NEUTRAL BUS: ( ) 100% (●) 200%
GROUND BUS: (●) STANDARD ( ) ISOLATED
AIC RATING: (●) 10K ( ) 14K ( ) 22K ( ) _____
SERIES RATING: ( ) _____ / _____

LOADS BY PHASE:
AØ: 12 KVA (99 A)
BØ: 13 KVA (107 A)
CØ: 10 KVA (83 A)

LOAD-TYPE SUBTOTALS:
LIGHTING: 0 KVA
FOOD SERVICE: 0 KVA
LARGEST MOTOR: 0 KVA

LOAD SUBTOTAL: 35 KVA (96 A)

NEC FACTORED LOADS:
LOAD FACTOR AT 1.25: 0 KVA (0 A)
LOAD FACTOR AT 0.65 0 KVA (0 A)
LOAD FACTOR AT 1.25: 0 KVA (0 A)

CALCULATED LOAD: 35 KVA (96 A)

NEW PANEL '911-208-1' SCHEDULE (5)

LOCATION: DISPATCH 157D

NOTE	TYPE	DESCRIPTION	LOAD	BREAKER	CKT		CKT	BREAKER	LOAD	DESCRIPTION	TYPE	NOTE
	R	REC 148A, 149B	360	20/1	1	2		20/1	770	FURNITURE 146A	R	
	R	REC 149E, 148D	1080	20/1	3	4		20/1	770	FURNITURE 146A	R	
	R	REC 148B, 148C	1080	20/1	5	6		20/1	770	FURNITURE 146A	R	
	R	DISPATCH WORKSTATION	552	20/1	7	8		20/1	770	FURNITURE 146A	R	
	R	DISPATCH WORKSTATION	180	20/1	9	10		20/1	660	FURNITURE 146A	R	
	R	DISPATCH WORKSTATION	180	20/1	11	12		20/1	660	FURNITURE 146A	R	
	R	DISPATCH WORKSTATION	180	20/1	13	14		20/1	660	FURNITURE 146A	R	
	R	157A COPIER	1500	20/1	15	16		20/1	660	FURNITURE 146A	R	
	R	DISPATCH GENERAL PURPOSE	1248	20/1	17	18		20/1	180	DISPATCH WORKSTATION	R	
	R	REC 157L, 157M	540	20/1	19	20		20/1	180	DISPATCH WORKSTATION	R	
	R	REC 157H, 157J	540	20/1	21	22		20/1	180	DISPATCH WORKSTATION	R	
	R	REC 157G	180	20/1	23	24		20/1	180	DISPATCH WORKSTATION	R	
	R	FURNITURE 157G	880	20/1	25	26		20/1	180	DISPATCH WORKSTATION	R	
	R	REC 157K	900	20/1	27	28		20/1	180	DISPATCH WORKSTATION	R	
	O	COFFEE/REFRIG 157D	1740	20/1	29	30		20/1	180	DISPATCH WORKSTATION	R	
	R	FURNITURE 148A	550	20/1	31	32		20/1	180	DISPATCH WORKSTATION	R	
	R	FURNITURE 148A	550	20/1	33	34		20/1	180	DISPATCH WORKSTATION	R	
	R	FURNITURE 148A	550	20/1	35	36		20/1	180	DISPATCH WORKSTATION	R	
	R	FURNITURE 148A	550	20/1	37	38		20/1	180	DISPATCH WORKSTATION	R	
	R	DISPATCH RECEPTION	720	20/1	39	40		20/1	180	DISPATCH WORKSTATION	R	
	R	REC 157G	180	20/1	41	42		20/1	180	DISPATCH WORKSTATION	R	
	R	REC 157G	180	20/1	43	44		20/1	180	DISPATCH WORKSTATION	R	
	R	REC 157G	180	20/1	45	46		20/1	180	DISPATCH WORKSTATION	R	
	R	RESTROOM 157N	540	20/1	47	48		20/1	180	DISPATCH WORKSTATION	R	
	R	DISPATCH GENERAL PURPOSE	360	20/1	49	50		20/1	180	DISPATCH WORKSTATION	R	
	R	IDF1	360	20/1	51	52		20/1	180	DISPATCH WORKSTATION	R	
		SPARE		20/1	53	54		20/1	180	DISPATCH WORKSTATION	R	
		SPARE		20/1	55	56		20/1	180	DISPATCH WORKSTATION	R	
		SPARE		20/1	57	58		20/1	180	DISPATCH WORKSTATION	R	
		SPARE		20/1	59	60		20/1	180	DISPATCH WORKSTATION	R	
		SPARE		20/1	61	62				SPACE		
		SPARE		20/1	63	64				SPACE		
		SPARE		20/1	65	66				SPACE		
		SPARE		20/1	67	68				SPACE		
		SPARE		20/1	69	70				SPACE		
		SPARE		20/1	71	72				SPACE		

VOLTS: (●) 208 /120V, 3Ø, 4W.
AMPS: ( ) 100A (●) 225A ( ) 400A ( ) _____
MAIN: ( ) MCB _____ (●) MLO
LUGS: ( ) DBL. LUGS ( ) FEED-THRU
MTD: ( ) SURFACE (●) FLUSH
BUSS: (●) COPPER ( ) ALUMINUM
DOOR: (●) DOOR IN DOOR ( ) STANDARD
NEMA RATING: 1
NEUTRAL BUS: ( ) 100% (●) 200%
GROUND BUS: (●) STANDARD ( ) ISOLATED
AIC RATING: (●) 10K ( ) 14K ( ) 22K ( ) _____
SERIES RATING: ( ) _____ / _____

LOADS BY PHASE:
AØ: 8 KVA (63 A)
BØ: 9 KVA (78 A)
CØ: 9 KVA (71 A)

LOAD-TYPE SUBTOTALS:
LIGHTING: 0 KVA
FOOD SERVICE: 0 KVA
LARGEST MOTOR: 0 KVA

LOAD SUBTOTAL: 26 KVA (71 A)

NEC FACTORED LOADS:
LOAD FACTOR AT 1.25: 0 KVA (0 A)
LOAD FACTOR AT 0.65 0 KVA (0 A)
LOAD FACTOR AT 1.25: 0 KVA (0 A)

CALCULATED LOAD: 26 KVA (71 A)

NEW PANEL '911-UPS' SCHEDULE (5)

LOCATION: DISPATCH 157D

NOTE	TYPE	DESCRIPTION	LOAD	BREAKER	CKT		CKT	BREAKER	LOAD	DESCRIPTION	TYPE	NOTE
	R	DISPATCH WORKSTATION	753	20/1	1	2		20/1	1172	DISPATCH WORK TOWERS	R	
	R	DISPATCH WORKSTATION	1172	20/1	3	4		20/1	753	DISPATCH WORKSTATION	R	
	R	DISPATCH WORKSTATION	753	20/1	5	6		20/1	753	DISPATCH WORKSTATION	R	
	R	DISPATCH WORK TOWERS	1172	20/1	7	8		20/1	1172	DISPATCH WORK TOWERS	R	
	R	DISPATCH WORKSTATION	753	20/1	9	10		20/1	753	DISPATCH WORKSTATION	R	
	R	DISPATCH WORK TOWERS	1172	20/1	11	12		20/1	1172	DISPATCH WORK TOWERS	R	
	R	DISPATCH WORK TOWERS	1172	20/1	13	14		20/1	1172	DISPATCH WORK TOWERS	R	
	R	DISPATCH WORKSTATION	753	20/1	15	16		20/1	753	DISPATCH WORKSTATION	R	
	R	DISPATCH WORKSTATION	753	20/1	17	18		20/1	1172	DISPATCH WORK TOWERS	R	
	R	DISPATCH WORK TOWERS	1172	20/1	19	20		20/1	753	DISPATCH WORKSTATION	R	
	R	DISPATCH WORKSTATION	753	20/1	21	22		20/1	1172	DISPATCH SUPERVISOR TOWERS	R	
	R	DISPATCH WORK TOWERS	1172	20/1	23	24		20/1	753	DISPATCH SUPERVISOR WORK	R	
	R	DISPATCH WORKSTATION	753	20/1	25	26		20/1	1172	DISPATCH SUPERVISOR TOWERS	R	
	R	DISPATCH WORK TOWERS	1172	20/1	27	28		20/1	753	DISPATCH SUPERVISOR WORK	R	
	R	DISPATCH WORKSTATION	753	20/1	29	30		20/1	180	RPD RADIO	R	
	R	DISPATCH WORK TOWERS	1172	20/1	31	32		20/1		SPARE		
	R	DISPATCH WORK TOWERS	1172	20/1	33	34		20/1	760	CLOCK/WALL TV/SCHED MONIT	R	
	R	DISPATCH WORKSTATION	753	20/1	35	36		20/1	1065	PRINTER/PHONE CHARGE/STAMP	R	
	R	DISPATCH WORK TOWERS	1172	20/1	37	38		20/1		SPARE		
	R	DISPATCH WORKSTATION	753	20/1	39	40		20/1		SPARE		
	R	DISPATCH WORK TOWERS	1172	20/1	41	42		20/1		SPARE		
	R	DISPATCH WORKSTATION	753	20/1	43	44		20/1	753	COUNTY WORKSTATION 157F	R	
	R	DISPATCH WORKSTATION	753	20/1	45	46		20/1	1172	DISPATCH EOC TOWERS 157G	R	
	R	DISPATCH WORK TOWERS	1172	20/1	47	48		20/1	753	DISPATCH EOC WORK 157G	R	
	R	DISPATCH WORKSTATION	753	20/1	49	50		20/1	1172	DISPATCH EOC TOWERS 157G	R	
	R	DISPATCH WORK TOWERS	1172	20/1	51	52		20/1	753	DISPATCH EOC WORK 157G	R	
	R	DISPATCH WORKSTATION	753	20/1	53	54		20/1	1172	DISPATCH EOC TOWERS 157G	R	
	R	DISPATCH WORK TOWERS	1172	20/1	55	56		20/1	753	DISPATCH EOC WORK 157G	R	
	R	DISPATCH WORK TOWERS	1172	20/1	57	58		20/1	1172	DISPATCH EOC TOWERS 157G	R	
	R	DISPATCH WORKSTATION	753	20/1	59	60		20/1	753	DISPATCH EOC WORK 157G	R	
	R	DISPATCH 157M TOWER+MON	258	20/1	61	62		20/1	600	DISPATCH EOC WALL MONITOR	R	
		SPARE		20/1	63	64		20/1	1215	DISPATCH EOC PRNTR+MONTOR	R	
		SPARE		20/1	65	66		20/1	540	QUIET LOUNGE 157E	R	
	O	PANEL '911-UPS-1'	3097	100	67	68		20/1	258	DISPATCH 157H TOWER+MON	R	
			2606		69	70		20/1	258	DISPATCH 157J TOWER+MON	R	
			2125	3	71	72		20/1	1172	DISPATCH TOWERS 157K	R	
	O	PANEL '911-UPSA'	7360	100	73	74		20/1	753	DISPATCH WORKSTATION 157K	R	
		-	7360		75	76		20/1	1172	DISPATCH TOWERS 157K	R	
		-	5360	3	77	78		20/1	753	DISPATCH WORKSTATION 157K	R	
	O	PANEL '911-UPSB'	0	100	79	80		20/1	1172	DISPATCH TOWERS 157K	R	
		-	0		81	82		20/1	753	DISPATCH WORKSTATION 157K	R	
		-	0	3	83	84		20/1	258	DISPATCH 157L TOWER+MON	R	

VOLTS: (●) 208 /120V, 3Ø, 4W.
AMPS: ( ) 100A ( ) 225A ( ) 400A ( ) _____
MAIN: ( ) MCB (●) MLO
LUGS: ( ) DBL. LUGS ( ) FEED-THRU
MTD: ( ) SURFACE (●) FLUSH
BUSS: (●) COPPER ( ) ALUMINUM
DOOR: (●) DOOR IN DOOR ( ) STANDARD
NEMA RATING: 1
NEUTRAL BUS: ( ) 100% (●) 200%
GROUND BUS: (●) STANDARD ( ) ISOLATED
AIC RATING: (●) 10K ( ) 14K ( ) 22K ( ) _____
SERIES RATING: ( ) _____ / _____

LOADS BY PHASE:
AØ: 32 KVA (264 A)
BØ: 31 KVA (259 A)
CØ: 27 KVA (226 A)

LOAD-TYPE SUBTOTALS:
LIGHTING: 0 KVA
FOOD SERVICE: 0 KVA
LARGEST MOTOR: 0 KVA

LOAD SUBTOTAL: 90 KVA (249 A)

NEC FACTORED LOADS:
LOAD FACTOR AT 1.25: 0 KVA (0 A)
LOAD FACTOR AT 0.65 0 KVA (0 A)
LOAD FACTOR AT 1.25: 0 KVA (0 A)

CALCULATED LOAD: 90 KVA (249 A)

NEW (R) PANEL 'EXTL1' SCHEDULE (1)

LOCATION: CODRIDOR C07

NOTE	TYPE	DESCRIPTION	LOAD	BREAKER	CKT		CKT	BREAKER	LOAD	DESCRIPTION	TYPE	NOTE
		SPARE		20/1	1	2	20/1		3000	SITE LIGHTING	L	(2)
		SPARE		20/1	3	4	20/1		2500	SITE LIGHTING	L	
		SPARE		20/1	5	6	20/1		4000	SITE LIGHTING	L	
		SPARE		20/1	7	8	20/1		4000	SITE LIGHTING	L	
		SPARE		20/1	9	10	20/1		4000	SITE LIGHTING	L	
		SPARE		20/1	11	12	20/1		2782	SITE LIGHTING	L	
		SPARE		20/1	13	14	20/1		1780	SITE LIGHTING	L	
		SPARE		20/1	15	16	20/1			SPARE		
		SPARE		20/1	17	18	20/1			SPARE		
		SPARE		20/1	19	20	20/1			SPARE		
		SPARE		20/1	21	22	20/1			SPARE		
		SPARE		20/1	23	24	20/1			SPARE		
		SPARE		20/1	25	26	20/1			SPARE		
		SPARE		20/1	27	28	20/1			SPARE		
		SPARE		20/1	29	30	20/1			SPARE		

VOLTS: (●) 480 /277V, 3Ø, 4W.
AMPS: ( ) 100A (●) 225A ( ) 400A ( ) _____
MAIN: ( ) MCB _____ (●) MLO
LUGS: ( ) DBL. LUGS ( ) FEED-THRU
MTD: (●) SURFACE ( ) FLUSH
BUSS: (●) COPPER ( ) ALUMINUM
DOOR: (●) DOOR IN DOOR ( ) STANDARD
NEMA RATING: 1
NEUTRAL BUS: ( ) 100% (●) 200%
GROUND BUS: ( ) STANDARD (●) ISOLATED
AIC RATING: ( ) 10K ( ) 14K ( ) 22K (●) 35K
SERIES RATING: ( ) _____ / _____

LOADS BY PHASE:
AØ: 9 KVA (32 A)
BØ: 7 KVA (23 A)
CØ: 7 KVA (24 A)

LOAD-TYPE SUBTOTALS:
LIGHTING: 22 KVA
FOOD SERVICE: 0 KVA
LARGEST MOTOR: 0 KVA

LOAD SUBTOTAL: 22 KVA (27 A)

NEC FACTORED LOADS:
LOAD FACTOR AT 1.25: 28 KVA (33 A)
LOAD FACTOR AT 0.65 0 KVA (0 A)
LOAD FACTOR AT 1.25: 0 KVA (0 A)

CALCULATED LOAD: 28 KVA (33 A)

NEW (R) PANEL 'EXTL2' SCHEDULE (1)

LOCATION: ELEC ROOM 194B

NOTE	TYPE	DESCRIPTION	LOAD	BREAKER	CKT		CKT	BREAKER	LOAD	DESCRIPTION	TYPE	NOTE
(2)	L	SITE LIGHTING	4005	20/1	1	2	20/1			SPARE		
	L	SITE LIGHTING	4005	20/1	3	4	20/1			SPARE		
	L	SITE LIGHTING	4005	20/1	5	6	20/1			SPARE		
	L	SITE LIGHTING	4005	20/1	7	8	20/1			SPARE		
	L	SITE LIGHTING	4005	20/1	9	10	20/1			SPARE		
	L	SITE LIGHTING	4005	20/1	11	12	20/1			SPARE		
	L	SITE LIGHTING	2677	20/1	13	14	20/1			SPARE		
	L	SITE LIGHTING	1030	20/1	15	16	20/1			SPARE		
		SPARE		20/1	17	18	20/1			SPARE		
		SPARE		20/1	19	20	20/1			SPARE		
		SPARE		20/1	21	22	20/1			SPARE		
		SPARE		20/1	23	24	20/1			SPARE		
		SPARE		20/1	25	26	20/1			SPARE		
		SPARE		20/1	27	28	20/1			SPARE		
		SPARE		20/1	29	30	20/1			SPARE		

VOLTS: (●) 480 /277V, 3Ø, 4W.
AMPS: (●) 100A ( ) 225A ( ) 400A ( ) _____
MAIN: ( ) MCB _____ (●) MLO
LUGS: ( ) DBL. LUGS ( ) FEED-THRU
MTD: (●) SURFACE ( ) FLUSH
BUSS: (●) COPPER ( ) ALUMINUM
DOOR: (●) DOOR IN DOOR ( ) STANDARD
NEMA RATING: 1
NEUTRAL BUS: ( ) 100% (●) 200%
GROUND BUS: (●) STANDARD ( ) ISOLATED
AIC RATING: ( ) 10K ( ) 14K ( ) 22K (●) 42K
SERIES RATING: ( ) _____ / _____

LOADS BY PHASE:
AØ: 11 KVA (39 A)
BØ: 9 KVA (33 A)
CØ: 8 KVA (29 A)

LOAD-TYPE SUBTOTALS:
LIGHTING: 11 KVA
FOOD SERVICE: 0 KVA
LARGEST MOTOR: 0 KVA

LOAD SUBTOTAL: 28 KVA (33 A)

NEC FACTORED LOADS:
LOAD FACTOR AT 1.25: 14 KVA (17 A)
LOAD FACTOR AT 0.65 0 KVA (0 A)
LOAD FACTOR AT 1.25: 0 KVA (0 A)

CALCULATED LOAD: 30 KVA (37 A)

NEW PANEL '911-UPS-1' SCHEDULE (5)

LOCATION: DISPATCH 157D

NOTE	TYPE	DESCRIPTION	LOAD	BREAKER	CKT		CKT	BREAKER	LOAD	DESCRIPTION	TYPE	NOTE
		SUPERVISOR - TOWERS	1172	20/1	1	2				SPACE		
		SUPERVISOR - WORKSTATION	753	20/1	3	4				SPACE		
		SUPERVISOR - WORKSTATION	753	20/1	5	6				SPACE		
		SUPERVISOR - TOWERS	1172	20/1	7	8				SPACE		
		SUPERVISOR - WORKSTATION	753	20/1	9	10				SPACE		
		SUPERVISOR - TOWER	1172	20/1	11	12				SPACE		
		SUPERVISOR - WORKSTATION	753	20/1	13	14				SPACE		
		SUPERVISOR - COPIER	900	20/1	15	16				SPACE		
		SPARE		20/1	17	18				SPACE		
		SPARE		20/1	19	20				SPACE		
		SPARE		20/1	21	22				SPACE		
		SPARE		20/1	23	24				SPACE		
		SPARE		20/1	25	26				SPACE		
		SPARE		20/1	27	28	20/1	200		FM200-IDF1-153	O	(3)
		SPARE		20/1	29	30	20/1	200		FM200-DISPATCH-157	O	

VOLTS: (●) 208 /120V, 3Ø, 4W.
AMPS: (●) 100A ( ) 225A ( ) 400A ( ) _____
MAIN: ( ) MCB _____ (●) MLO
LUGS: ( ) DBL. LUGS ( ) FEED-THRU
MTD: (●) SURFACE ( ) FLUSH
BUSS: (●) COPPER ( ) ALUMINUM
DOOR: ( ) DOOR IN DOOR (●) STANDARD
NEMA RATING: 1
NEUTRAL BUS: ( ) 100% (●) 200%
GROUND BUS: (●) STANDARD ( ) ISOLATED
AIC RATING: (●) 10K ( ) 14K (●) 22K ( ) _____
SERIES RATING: ( ) _____ / _____

LOADS BY PHASE:
AØ: 3 KVA (26 A)
BØ: 3 KVA (22 A)
CØ: 2 KVA (18 A)

LOAD-TYPE SUBTOTALS:
LIGHTING: 11 KVA
FOOD SERVICE: 0 KVA
LARGEST MOTOR: 0 KVA

LOAD SUBTOTAL: 8 KVA (22 A)

NEC FACTORED LOADS:
LOAD FACTOR AT 1.25: 14 KVA (38 A)
LOAD FACTOR AT 0.65 0 KVA (0 A)
LOAD FACTOR AT 1.25: 0 KVA (0 A)

CALCULATED LOAD: 11 KVA (29 A)

NEW PANEL '911-UPSA' SCHEDULE (5)

LOCATION: DISPATCH 157D

NOTE	TYPE	DESCRIPTION	LOAD	BREAKER	CKT		CKT	BREAKER	LOAD	DESCRIPTION	TYPE	NOTE
	R	RACK 1	2000	30	1	2		20/1	1000	SYSTEMS	O	
	R	-	2000	2	3	4		20/1	1000	SYSTEMS	O	
	R	RACK 2	2000	30	5	6		20/1	1000	SYSTEMS	O	
	R	-	2000	2	7	8		20/1	360	EQUIPMENT	R	
	R	RACK 3	2000	30	9	10		20/1	360	EQUIPMENT	R	
	R	-	2000	2	11	12		20/1	360	EQUIPMENT	R	
	R	RACK 4	2000	30	13	14		20/1		SPARE		
	R	-	2000	2	15	16		20/1		SPARE		
		SPACE			17	18		20/1		SPARE		
		SPACE			19	20		20/1		SPARE		
		SPACE			21	22		20/1		SPARE		
		SPACE			23	24		20/1		SPARE		
		SPACE			25	26		20/1		SPARE		
		SPACE			27	28		20/1		SPARE		
		SPACE			29	30		20/1		SPARE		

VOLTS: (●) 208 /120V, 3Ø, 4W.
AMPS: (●) 100A ( ) 225A ( ) 400A ( ) _____
MAIN: (●) MCB 100/3 ( ) MLO
LUGS: ( ) DBL. LUGS ( ) FEED-THRU
MTD: (●) SURFACE ( ) FLUSH
BUSS: (●) COPPER ( ) ALUMINUM
DOOR: (●) DOOR IN DOOR ( ) STANDARD
NEMA RATING: 1
NEUTRAL BUS: ( ) 100% (●) 200%
GROUND BUS: (●) STANDARD ( ) ISOLATED
AIC RATING: (●) 10K ( ) 14K ( ) 22K ( ) _____
SERIES RATING: ( ) _____ / _____

LOADS BY PHASE:
AØ: 7 KVA (61 A)
BØ: 7 KVA (61 A)
CØ: 5 KVA (45 A)

LOAD-TYPE SUBTOTALS:
LIGHTING: 0 KVA
FOOD SERVICE: 0 KVA
LARGEST MOTOR: 0 KVA

LOAD SUBTOTAL: 20 KVA (56 A)

NEC FACTORED LOADS:
LOAD FACTOR AT 1.25: 0 KVA (0 A)
LOAD FACTOR AT 0.65 0 KVA (0 A)
LOAD FACTOR AT 1.25: 0 KVA (0 A)

CALCULATED LOAD: 20 KVA (56 A)

NEW PANEL '911-UPSB' SCHEDULE (4) (5)

NOTE	TYPE	DESCRIPTION	LOAD	BREAKER	CKT		CKT	BREAKER	LOAD	DESCRIPTION	TYPE	NOTE
		SPACE			1	2	30		0	RACK 1	R	
		SPACE			3	4	2		0	-	R	
		SPACE			5	6	30		0	RACK 2	R	
		SPACE			7	8	2		0	-	R	
		SPACE			9	10	30		0	RACK 3	R	
		SPACE			11	12	2		0	-	R	
		SPACE			13	14	30		0	RACK 4	R	
		SPACE			15	16	2		0	-	R	
		SPACE			17	18				SPACE		
		SPACE			19	20				SPACE		
		SPACE			21	22				SPACE		
		SPACE			23	24				SPACE		
		SPACE			25	26				SPACE		
		SPACE			27	28				SPACE		
		SPACE			29	30				SPACE		

VOLTS: (●) 208 /120V, 3Ø, 4W.
AMPS: (●) 100A ( ) 225A ( ) 400A ( ) _____
MAIN: (●) MCB 100/3 ( ) MLO
LUGS: ( ) DBL. LUGS ( ) FEED-THRU
MTD: (●) SURFACE ( ) FLUSH
BUSS: (●) COPPER ( ) ALUMINUM
DOOR: (●) DOOR IN DOOR ( ) STANDARD
NEMA RATING: 1
NEUTRAL BUS: ( ) 100% (●) 200%
GROUND BUS: (●) STANDARD ( ) ISOLATED
AIC RATING: (●) 10K ( ) 14K ( ) 22K ( ) _____
SERIES RATING: ( ) _____ / _____

LOADS BY PHASE:
AØ: 0 KVA (0 A)
BØ: 0 KVA (0 A)
CØ: 0 KVA (0 A)

LOAD-TYPE SUBTOTALS:
LIGHTING: 0 KVA
FOOD SERVICE: 0 KVA
LARGEST MOTOR: 0 KVA

REDUNDANT:
SEE PANEL 'IDF1A' FOR LOADS

LOAD SUBTOTAL: 0 KVA (0 A)

NEC FACTORED LOADS:
LOAD FACTOR AT 1.25: 0 KVA (0 A)
LOAD FACTOR AT 0.65 0 KVA (0 A)
LOAD FACTOR AT 1.25: 0 KVA (0 A)

CALCULATED LOAD: 0 KVA

EXHIBIT E

DRAWING INDEX

SHEET NUMBER	SHEET TITLE	PERMIT ISSUE DATE: 03/14/2021	1 PLAN REVIEW DATE: 04/27/2021	2 ISSUED FOR CONSTRUCTION DATE: 11/08/2021	3	4	5
ITS001	LOW VOLTAGE SYMBOL LIST, ABBREVIATIONS AND DRAWING INDEX	●	●	●			
ITS002	LOW VOLTAGE GENERAL NOTES AND SCHEDULES	●	●	●			
ITS010	LOW VOLTAGE SITE PLAN	●	●	●			
ITS201	OVERALL FIRST LEVEL LOW VOLTAGE PLAN	●		●			
ITS201A	PARTIAL FIRST LEVEL SIGNAL PLAN - AREA 'A'	●		●			
ITS201B	PARTIAL FIRST LEVEL SIGNAL PLAN - AREA 'B'	●		●			
ITS202	SECOND LEVEL SIGNAL PLAN	●		●			
ITS300	LOW VOLTAGE SITE PHASING PLAN	●	●	●			
ITS301.1B	PARTIAL FIRST LEVEL LOW VOLTAGE PHASING PLAN - AREA 'B'	●	●	●			
ITS301.1A	PARTIAL FIRST LEVEL LOW VOLTAGE PHASING PLAN - AREA 'A'	●	●	●			
ITS501A	PARTIAL FIRST LEVEL SECURITY PLAN - AREA 'A'	●		●			
ITS501B	PARTIAL FIRST LEVEL SECURITY PLAN - AREA 'B'	●		●			
ITS502	SECOND LEVEL SECURITY PLAN	●		●			
ITS503	THIRD LEVEL SECURITY PLAN	●		●			
ITS600	ROOF SECURITY PLAN	●		●			
ITS701	ENLARGED MDF PLAN	●		●			
ITS702	ENLARGED IDF-1 PLAN	●		●			
ITS703	ENLARGED IDF-2 PLAN	●		●			
ITS704	ENLARGED IDF-3 PLAN	●		●			
ITS800	LOW VOLTAGE DIAGRAMS	●		●			
ITS801	LOW VOLTAGE DIAGRAMS	●		●			
ITS802	LOW VOLTAGE RISER DIAGRAM	●		●			
	TOTAL	22	6	22			

INFORMATION TECHNOLOGY SYSTEMS SYMBOLS AND ABBREVIATIONS LIST

NOTE: THIS IS A MASTER SCHEDULE. NOT ALL SYMBOLS CONTAINED HEREIN MAY APPEAR ON THE DRAWINGS.

NETWORK SYSTEMS DEVICES

- WALL MOUNTED TELEPHONE OUTLET, +48" AFF, UNLESS OTHERWISE NOTED.
- VOICE/DATA OUTLET, +18", UNLESS OTHERWISE NOTED. (X) NUMBER DENOTES CABLE QUANTITY.
- POS — POINT OF SALE DATA OUTLET, +18", UNLESS OTHERWISE NOTED. (X) NUMBER DENOTES CABLE QUANTITY.
- VOICE/DATA OUTLET, +48" AFF, UNLESS OTHERWISE NOTED. (X) NUMBER DENOTES CABLE QUANTITY.
- VOICE/DATA OUTLET, FLUSH FLOOR MOUNTED BOX. (X) NUMBER DENOTES CABLE QUANTITY.
- DATA OUTLET, FLUSH CEILING MOUNTED BOX. (X) NUMBER DENOTES CABLE QUANTITY.
- WIRELESS ACCESS POINT (WIFI).

GENERAL DEVICES

- PULLBOX - SIZE AND LOCATION AS REQUIRED
- JUNCTION BOX - SIZE PER NEC REQUIREMENTS
- MULTI-COMPARTMENT STYLE JUNCTION BOX, FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED.
- SHEET NOTE DESIGNATION
- CIRCUITING IN WALL OR ABOVE CEILING
- CIRCUITING IN FLOOR OR BELOW GRADE
- HOMERUN: AS NOTED
- STUB -OUT
- COPPER GROUND - SIZE PER PLANS
- MEDIA BOX
- 4-POST CABINET
- 2-POST RACK WITH VERTICAL WIRE MANAGERS
- LADDER RACK

CCTV SYSTEM DEVICES

- FIXED INTERIOR CAMERA
- PTZ INTERIOR CAMERA
- 360 — 360° INTERIOR CAMERA
- MIC — FIXED INTERIOR CAMERA WITH BUILT IN MICROPHONE
- FIXED EXTERIOR CAMERA
- EXTERIOR PTZ CAMERA

AUDIO/VIDEO SYSTEMS DEVICES

- WALL SPEAKER
- CEILING MOUNTED SPEAKER
- SUB WOOFER
- VOLUME CONTROL
- M — MICROPHONE
- VP — VIDEO PROJECTOR
- TP — CONTROL TOUCH PANEL
- MONITOR DISPLAY
- OP — AV OPERATION PANEL
- PS — PROJECTION SCREEN

ACCESS/SECURITY SYSTEMS DEVICES

- MDH — MAGNETIC DOOR SWITCH - DOOR HINGE MOUNTED UNLESS OTHERWISE NOTED
- A — DURESS, PANIC ALARM
- EL — ELECTRONIC LOCK
- CR — CARD READER
- DC — DOOR CONTACT
- CTS — CONTROL SENSOR
- EDS — ELECTRIC DOOR STRIKE, DOOR FRAME MOUNTED, UNLESS OTHERWISE NOTED
- RES — REQUEST TO EXIT SENSOR
- GB — GLASS BREAK
- ML — ELECTRO MAGNETIC DOOR LOCK
- KP — KEYPAD
- PUSHBUTTON-WALL MOUNTED
- SIGNAL BUZZER-WALL MOUNTED
- BIO — BIOMETRIC READER

ABBREVIATIONS

ABF	AIR BLOWN FIBER
AFF	ABOVE FINISHED FLOOR
AV	AUDIO / VIDEO
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
C	CONDUIT (WITH PULL CORD IF OTHERWISE EMPTY)
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION (SURVEILLANCE)
COAX	COAXIAL CABLE
CU	COPPER
DEMARC	DEMARCATION POINT
(E)	EXISTING TO REMAIN
EF	ENTRANCE FACILITY
ER	EQUIPMENT ROOM, MAIN
FA	FIRE ALARM
FBO	FURNISHED BY OTHERS
FLTP	FLIP-TOP ENCLOSURE
GRD/GND	GROUND
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
LAN	LOCAL AREA NETWORK
LED	LIGHT EMITTING DIODE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MDF	MAIN DISTRIBUTION FRAME
MM	MULTI-MODE FIBER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OLT	OPTICAL LINE TERMINAL
ONT	OPTICAL NETWORK TERMINAL
OSP	OUTSIDE PLANT
PDU	POWER DISTRIBUTION UNIT
PTZ	PAN, TILT, ZOOM
PX	PROXIMITY READER
QTY	QUANTITY
(R)	EXISTING TO BE RELOCATED
RU	RACK UNIT
SAT	SATELLITE
SM	SINGLE MODE FIBER
TC	TELECOMMUNICATIONS CABINET
TE	TELECOMMUNICATIONS ENCLOSURE
TGB	TELECOMMUNICATIONS GROUNDING BAR
TR	TELECOMMUNICATIONS ROOM
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTED POWER SUPPLY
WAP	WIRELESS ACCESS POINT
WP	WEATHER PROOF
(X)	EXISTING TO BE REMOVED

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11/08/2021

Revisions :
- 1 04/27/2021: PLAN REVIEW
- 2 11/08/2021:ISSUED FOR CONSTRUCTION

Sheet Title :
LOW VOLTAGE SYMBOL LIST, ABBREVIATIONS AND DRAWING INDEX

project no: MBA1925
date: 11/08/21
drawing name: R1906\ITS001

Sheet No :
PSC REMODEL
ITS001

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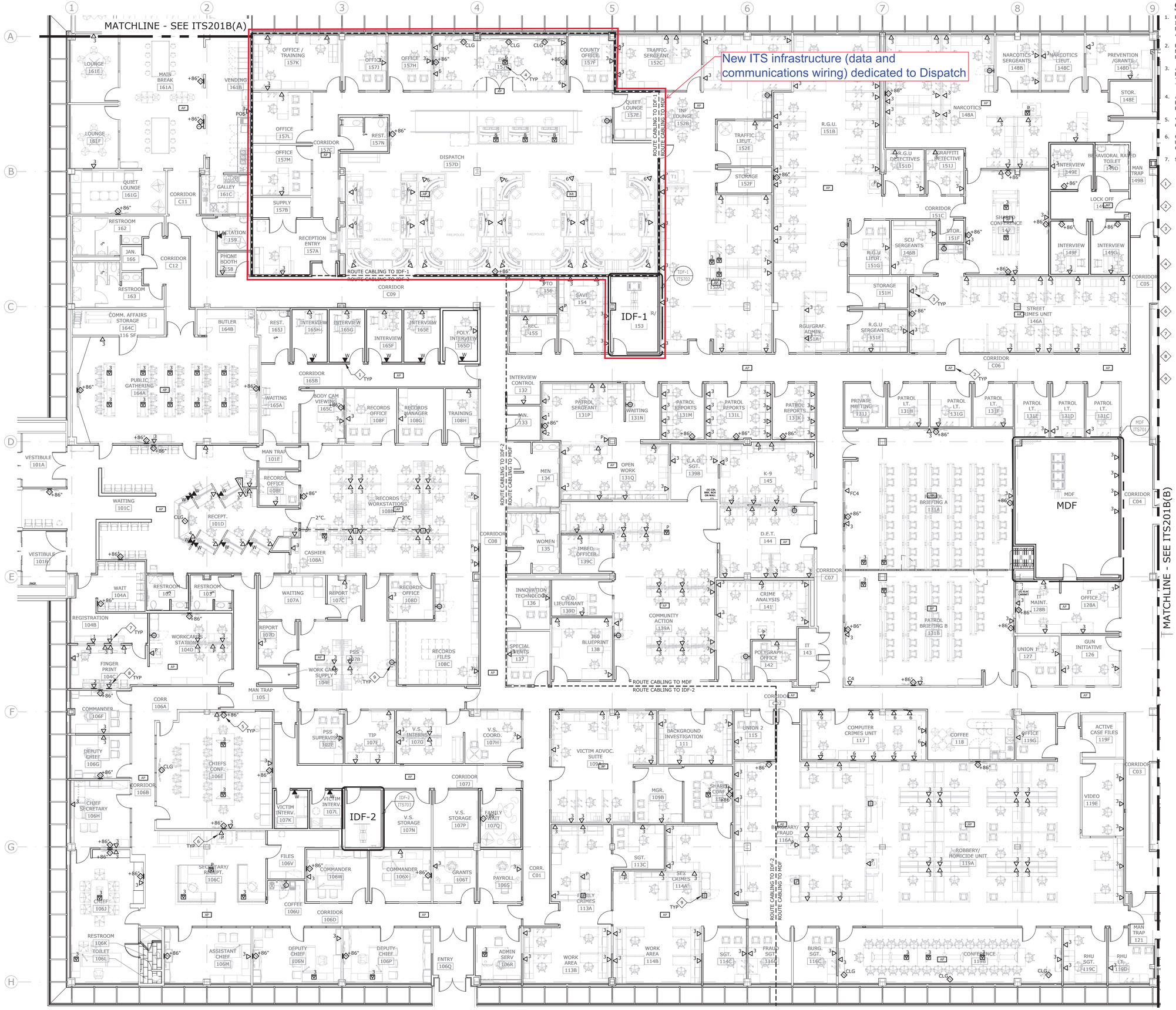

A ITS201A PARTIAL FIRST LEVEL SIGNAL PLAN - AREA 'A'
1/8" = 1'-0"
0' 2' 4' 8' 16'
NORTH

GENERAL NOTES:

1. REFER TO THE CITY OF RENO - DEPARTMENT OF INFORMATION TECHNOLOGY SPECIFICATIONS DOCUMENT FOR LABELING INSTRUCTIONS, POLICIES AND PROCEDURES FOR ALL CABLE INSTALLATIONS.
2. REFER TO SHEET ITS002 FOR CABLE TYPES AND PART NUMBERS. REFER TO THE ITS800 SERIES FOR COVER PLATE LAYOUTS AND ADDITIONAL INFORMATION.
3. ALL INSTALLED TELECOMMUNICATIONS CABLES SHALL BE LABELED AT EACH END IN ACCORDANCE WITH TIA-606-C ADMINISTRATION STANDARDS FOR TELECOMMUNICATIONS INFRASTRUCTURE.
4. ALL INSTALLED TELECOMMUNICATIONS CABLES SHALL BE TESTED AND CERTIFIED IN ACCORDANCE WITH THE PROVISIONS OF ANSI/TIA-568.2-D.
5. VERIFY ALL DATA LOCATIONS WITH OWNER'S I.T. AND CASEWORK VENDOR PRIOR TO ROUGH-IN.
6. CABLING SHALL BE RUN HORIZONTALLY OVERHEAD OR UNDER RAISED FLOOR IN BASKET TRAY AND J-HOOKS. CONTINUOUS CONDUIT IS NOT REQUIRED.
7. SEE SHEET G201 FOR FIRE RATED WALLS.

SHEET NOTES:

1. PROVIDE AND INSTALL ONE (1) TYPE 'A' CABLE FOR WALL PHONE LOCATION(S). ROUTE CABLE TO MDF/IDF AS INDICATED.
2. PROVIDE AND INSTALL ONE (1) TYPE 'B' CABLE FOR WIRELESS ACCESS POINT LOCATION(S). ROUTE CABLE TO MDF/IDF AS INDICATED.
3. PROVIDE AND INSTALL THREE (3) TYPE 'A' CABLES FOR WORKSTATION LOCATION(S). COORDINATE INSTALLATION INTO MODULAR FURNITURE SYSTEM WHEN REQUIRED. ROUTE CABLES TO MDF/IDF AS INDICATED.
4. PROVIDE AND INSTALL THREE (3) TYPE 'A' CABLES FOR FLOOR WORKSTATION LOCATION(S). ROUTE CABLES TO MDF/IDF AS INDICATED.
5. PROVIDE AND INSTALL ONE (1) TYPE 'A' CABLE FOR TV LOCATION(S). ROUTE CABLE TO MDF/IDF AS INDICATED.
6. PROVIDE AND INSTALL TWO (2) TYPE 'A' CABLE FOR PRINTER/COPIER LOCATION(S). ROUTE CABLES TO MDF/IDF AS INDICATED.
7. PROVIDE AND INSTALL ONE (1) TYPE 'A' CABLE FOR DATA LOCATION(S). ROUTE CABLE TO MDF/IDF AS INDICATED.
8. PROVIDE AND INSTALL TWO (2) TYPE 'A' CABLE FOR DATA LOCATION(S). ROUTE CABLES TO MDF/IDF AS INDICATED.
9. PROVIDE AND INSTALL ONE (1) 1" CONDUIT TO 5S J-BOX STUBBED TO ABOVE ACCESSIBLE CEILING SPACE OR BELOW ACCESSIBLE RAISED FLOOR SPACE FOR RADIO REPEATER. COORDINATE LOCATION WITH SYSTEM INTEGRATOR PRIOR TO ROUGH-IN.

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1 11/08/2021:ISSUED FOR CONSTRUCTION

Sheet Title :
PARTIAL FIRST LEVEL SIGNAL PLAN - AREA 'A'

project no: MBA1925
date: 11/08/21
drawing name: R1905 ITS201A

Sheet No :
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ITS201A

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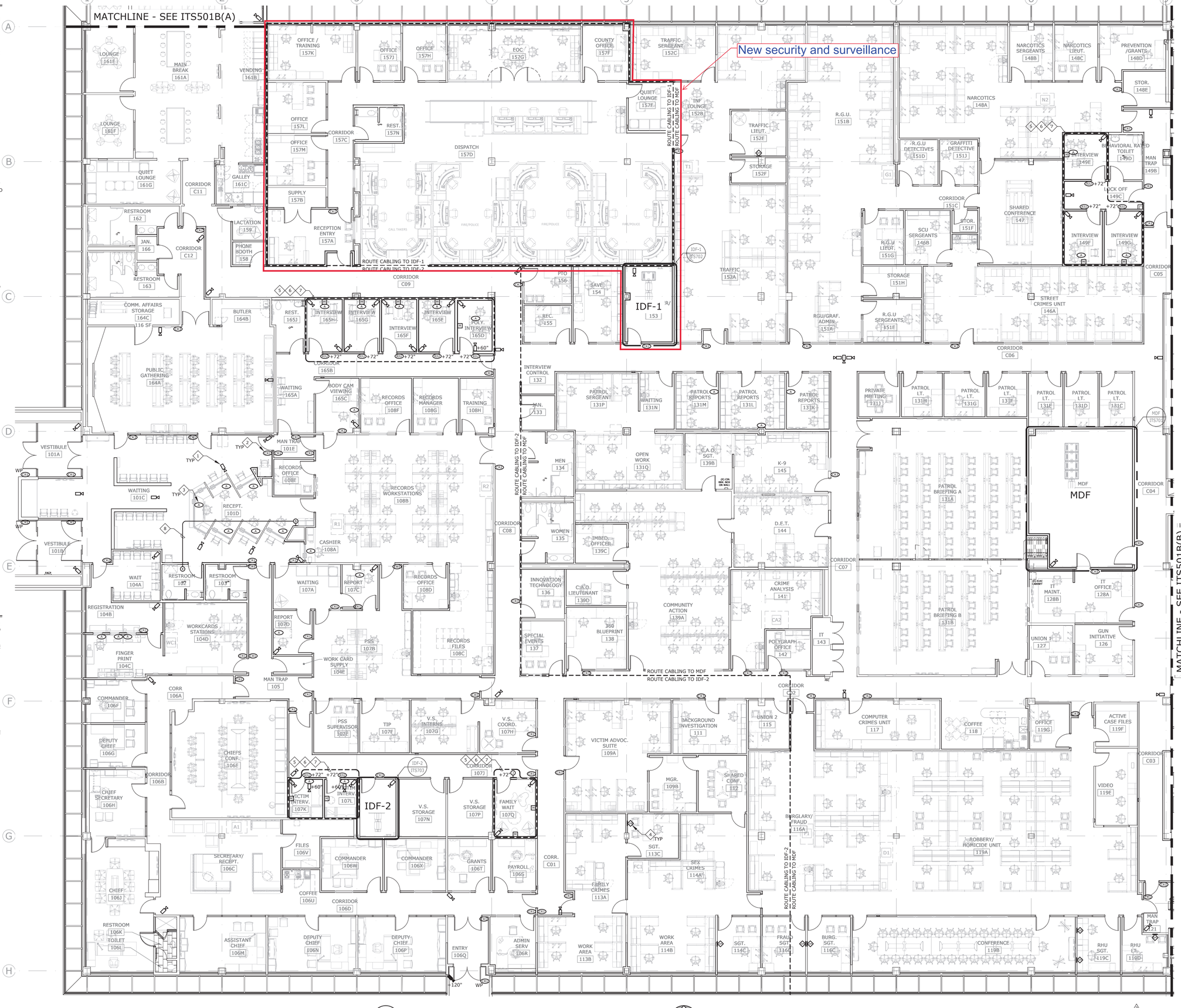
GENERAL NOTES:

1. THE SYSTEM(S) DESIGN/LAYOUT CONTAINED IN THESE SHEETS ARE CONCEPTUAL ONLY AND ARE BASED ON THE OWNER INPUT RECEIVED AND DESIGN TEAM INFORMATION COORDINATED THUS FAR. THE AWARDED CONTRACTOR(S)/INTEGRATOR(S) SHALL BE RESPONSIBLE FOR ADAPTING THE SYSTEM(S) AND DESIGN INTENT ILLUSTRATED WITHIN THIS DESIGN-BUILD CRITERIA TO THE ACTUAL CONDITIONS OF THIS PROJECT AND THE FINAL OWNER'S NEEDS. CONTRACTOR(S) SHALL COORDINATE, CONFIRM AND FINALIZE DESIRED SYSTEM(S) COVERAGE, FEATURES AND PROGRAMMING WITH OWNER, OWNER'S SUPPORT STAFF (IT, SECURITY, ECT.) DESIGN TEAM, AND OTHER TRADES/DISCIPLINES PRIOR TO COMPLETING FINAL CONSTRUCTION DOCUMENTS FOR THE SYSTEM(S) IDENTIFIED WITH-IN THESES DOCUMENTS. COORDINATE DEVICE LOCATIONS, HEIGHTS, ECT. WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.
2. ALL DESIRED SYSTEM SOFTWARE PLATFORMS AND QUANTITY OF LICENSES SHALL BE PROVIDED FOR ALL FURNISHED EQUIPMENT AS PART OF THE CONTRACTOR'S COMPLETE AND OPERABLE SYSTEM(S). ALL SYSTEM SOFTWARE PLATFORMS INSTALLED SHALL BE THE FULL AND COMPLETE VERSION OF THE MOST RECENT SOFTWARE PACKAGE AVAILABLE AT THE TIME OF THE INSTALLATION. OWNER SHALL BE PROVIDED FORMAL COPIES OF ALL LICENSES AND FURNISHED WITH ALL USER NAMES AND PASSWORDS TO THE SYSTEM AS PART OF CLOSE-OUT DOCUMENTATION.
3. REFER TO THE CITY OF RENO DEPARTMENT OF INFORMATION TECHNOLOGY SPECIFICATIONS DOCUMENT FOR LABELING INSTRUCTIONS, POLICIES AND PROCEDURES FOR ALL CABLE INSTALLATIONS.
4. REFER TO SHEET ITS002 FOR CABLE TYPES AND PART NUMBERS. REFER TO THE ITS800 SERIES FOR ADDITIONAL INFORMATION OF SECURITY AND SURVEILLANCE DEVICES.
5. ALL CAMERAS ARE TO BE OWNER PROVIDED AND CONTRACTOR INSTALLED.
6. ALL INSTALLED SECURITY CABLES SHALL BE LABELED AT EACH END IN ACCORDANCE WITH TIA-606-C ADMINISTRATION STANDARDS FOR TELECOMMUNICATIONS INFRASTRUCTURE.
7. ALL INSTALLED SECURITY CABLES SHALL BE TESTED AND CERTIFIED IN ACCORDANCE WITH THE PROVISIONS OF ANSI/TIA-568.2-D.
8. SURVEILLANCE AND SECURITY CABLING SHALL BE RUN HORIZONTALLY OVERHEAD OR UNDER RAISED FLOOR IN BASKET TRAY AND J-HOOKS. CONTINUOUS CONDUIT IS NOT REQUIRED.

SHEET NOTES:

1. PROVIDE AND INSTALL ONE (1) TYPE 'C' CABLE FOR SURVEILLANCE CAMERA, ROUTE CABLE TO MDF/IDF AS INDICATED.
2. PROVIDE AND INSTALL ONE (1) TYPE 'D' CABLE FOR CARD READER, ROUTE CABLE TO MDF/IDF AS INDICATED. CR1 LOCATIONS ARE REQUIRED, CR2 LOCATIONS ARE BID ALTERNATES AND CR3 LOCATIONS ARE LOWEST PRIORITY BID ALTERNATES.
3. PROVIDE AND INSTALL ONE (1) TYPE 'K' CABLE FOR DURESS BUTTON, ROUTE CABLE TO MDF/IDF AS INDICATED.
4. PROVIDE AND INSTALL ONE (1) TYPE 'A' CABLE FOR SURVEILLANCE MONITOR, ROUTE CABLE TO MDF/IDF AS INDICATED.
5. PROVIDE AND INSTALL ONE (1) TYPE 'O' CABLE FOR INTERVIEW ROOM CAMERA(S), ROUTE CABLE TO NVR WITHIN MDF.
6. PROVIDE AND INSTALL ONE (1) TYPE 'P' CABLE FOR INTERVIEW ROOM MICROPHONE(S), ROUTE CABLE TO NVR WITHIN MDF.
7. PROVIDE AND INSTALL ONE (1) TYPE 'P' CABLE FOR ROOM-IN-USE RED LIGHT INDICATOR(S), ROUTE CABLE TO NVR WITHIN MDF.
8. PROVIDE AND INSTALL ONE (1) TYPE 'P' CABLE FOR PUSH BUTTON TO BUZZER. AUDIBLE ALERT ONLY; NO ACCESS CONTROL.



A ITS501A PARTIAL FIRST LEVEL SECURITY PLAN - AREA 'A'
1/8" = 1'-0"
0' 2' 4' 8' 16'
NORTH

3 NO CHANGES

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1 11/08/2021:ISSUED FOR CONSTRUCTION

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PARTIAL FIRST LEVEL SECURITY PLAN - AREA 'A'

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ITS501A

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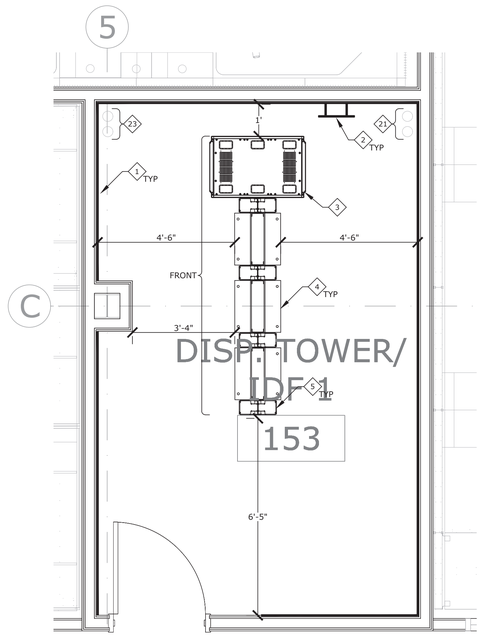
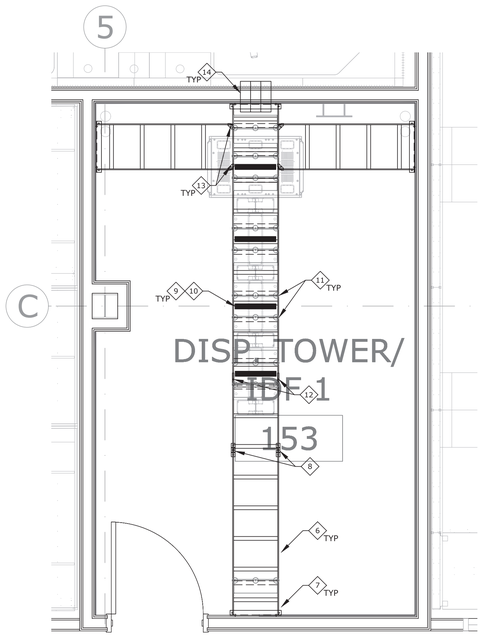
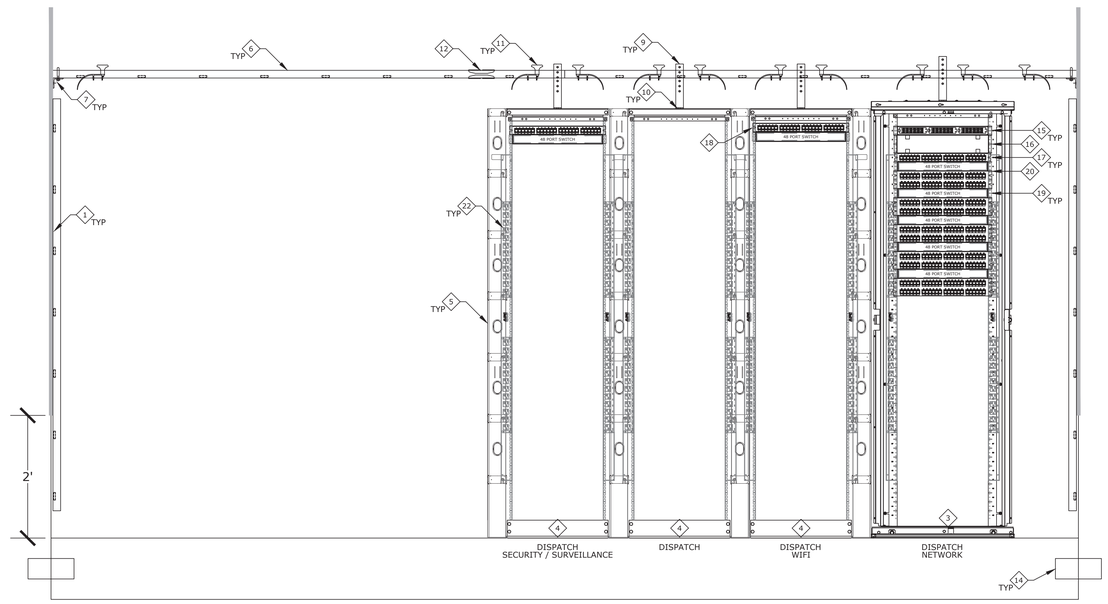
IDF equipment on this page dedicated to Dispatch



A ITS702 ENLARGED IDF-1 PLAN - LAYOUT
1/2" = 1'-0"
0' 1/2' 1' 2' 4'
NORTH



B ITS702 ENLARGED IDF-1 PLAN - LADDER
1/2" = 1'-0"
0' 1/2' 1' 2' 4'
NORTH



C ITS702 ENLARGED IDF-1 PLAN - ELEVATION
1" = 1'-0"
0' 3" 6" 1' 2'

SHEET NOTES:

1. PROVIDE AND INSTALL 4' x 8' x 3/4" FIRE RATED PLYWOOD BACKBOARD.
2. PROVIDE AND INSTALL CHATSWORTH 12" TGB BUS BAR, CPI #13622-012.
3. PROVIDE AND INSTALL GREAT LAKES CABINET WITH LOCKABLE DOOR, #GL840E-2436. PROVIDE AND INSTALL VERTICAL CABLE BAR KIT, #VCB-8436
4. PROVIDE AND INSTALL CHATSWORTH 2-POST RACK, CPI #55053-703.
5. PROVIDE AND INSTALL CHATSWORTH VERTICAL CABLE MANAGER, CPI #30094-703.
6. PROVIDE AND INSTALL CHATSWORTH 18" LADDER RACK, CPI #10250-718.
7. PROVIDE AND INSTALL CHATSWORTH 18" WALL ANGLE BRACKET, CPI #11421-718.
8. PROVIDE AND INSTALL CHATSWORTH THREADED CEILING KIT, CPI #11310-001.
9. PROVIDE AND INSTALL CHATSWORTH RUNWAY ELEVATION KIT, CPI #10506-706.
10. PROVIDE AND INSTALL CHATSWORTH MOUNTING PLATE, CPI #10595-718.
11. PROVIDE AND INSTALL CHATSWORTH 17" RADIUS DROP, CPI #12100-718.
12. PROVIDE AND INSTALL CHATSWORTH BUTT SPLICE, CPI #11301-701.
13. PROVIDE AND INSTALL CHATSWORTH JUNCTION SPLICE, CPI #11302-701.
14. PROVIDE AND INSTALL STI EZ-PATH FIRE STOP, EZDP-333GK. PROVIDE AND INSTALL WALL MOUNTED 18" LADDER RACK FOR CABLES TRANSITIONING FROM RAISED FLOOR SPACE TO OVERHEAD LADDER RACK.
15. PROVIDE AND INSTALL 1U FIBER PATCH PANEL, #CCH-01U.
16. PROVIDE AND INSTALL 2U HORIZONTAL WIRE MANAGER, #30530-719.
17. PROVIDE AND INSTALL 1U CAT6 24 PORT ANGLED PATCH PANEL, #760180067.
18. PROVIDE AND INSTALL 1U CAT6A 24 PORT ANGLED PATCH PANEL, #760162826.
19. OWNER PROVIDED, OWNER INSTALLED 1U 48 PORT SWITCH.
20. PROVIDE AND INSTALL 2U 48 CAT6 PORT ANGLED PATCH PANEL, #760180075.
21. PROVIDE AND INSTALL TWO (2) 2" CONDUIT TO MDF. ROUTE THROUGH FIRE PROTECTED CEILING SPACE. VERIFY ROUTING REQUIREMENTS WITH ELECTRICAL AND ARCHITECTURAL PRIOR TO ROUGH-IN.
22. PROVIDE AND INSTALL TWO (2) 30A, 120V/240V, 1ø VERTICAL PDU PER RACK OR CABINET AS SHOWN.
23. 2" CONDUIT FOR SERVICE PROVIDER. REFER TO ELECTRICAL SHEET E201 FOR MORE DETAILS ON ROUTING AND 2-HOUR RATING REQUIREMENTS.

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ENLARGED IDF-1 PLAN

project no: MBA1925
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drawing name: R19061-ITS702
Sheet No :
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Control Sequence of Operation

Room #	Description	Input Device	Input	Lights	Action	Device settings
101A, 101B, 101C, 101D, 106Q, 157A,	Reception/Entrance	Occupancy sensor	Sense occupancy Sense vacancy	All	On Dim	90% 50% - time delay 15 minutes
189, 191	Exit/Secure Entrance	Occupancy sensor	Sense occupancy Sense vacancy	All	On Dim	90% 20% - time delay 15 minutes
104A, 104B	Registration	Occupancy sensor	Sense occupancy Sense vacancy	All	On Dim	90% 20% - time delay 15 minutes
101E, 104C, 104D, 106B, 106F, 106G, 106H, 106M, 106N, 106R, 106S, 106T, 106U, 106V, 106W, 106X, 107A, 107C, 107D, 107E, 107F, 107G, 107H, 107K, 107L, 107M, 107N, 107P, 107Q, 108D, 108E, 108F, 108G, 108H, 109A, 109B, 111, 113C, 114C, 115, 117, 116B, 116C, 119C, 119D, 119E, 119F, 122B, 122D, 122C, 122F, 126, 127, 128A, 128B, 131C, 131D, 131E, 131F, 131G, 131H, 131J, 131K, 131L, 131M, 132, 133, 136, 137, 138, 139B, 139C, 139D, 141, 142, 144, 145, 146B, 148B, 148C, 148D, 149E, 149F, 149G, 151D, 151E, 151F, 151G, 151H, 152E, 152F, 152G, 153, 154, 156, 155, 157F, 157G, 157H, 157J, 157K, 157L, 157M, 165C, 165D, 165E, 165F, 165G, 165H, 171C,	Offices	Wall mounted cccupancy/vacancy sensor with override switch	Button press Button hold Button press Sense vacancy	All	On Ramp up/down Off Off	90% 100%-0% 0% 0%
106E, 112, 119B, 147	Conference Rooms	Ceiling mounted occupancy sensor	Sense occupancy Sense vacancy	All	No action Off	Time delay 20 min
		Wall station	Button 1 Button 2 Button 3 Button 4 Button 5	All	Preset Scene 1 Preset Scene 2 Ramp up current preset Ramp down current preset Off	Ramp up while button pressed to 100% Ramp down while button pressed to 0% 0%
108A, 108C, 116A, 119A, 164A,	Open Offices-High Ceiling <9'	Ceiling mounted occupancy sensor	Sense occupancy Sense vacancy Sense vacany in all zones	All	On Dim Off	90% 15% - time delay 20 min 0% - time delay 20 min
106C, 107B, 113A, 113B, 114A, 114B, 129, 131A, 131B, 131N, 131P, 131Q, 139A, 146A, 148A, 151A, 151B, 152A, 152B, 171F, 171G, 187,	Open Offices-Low Ceiling >9'	Ceiling mounted occupancy sensor	Sense occupancy Sense vacancy Sense vacany in all zones	All	On Dim Off	90% 15% - time delay 20 min 0% - time delay 20 min
108B	Records Workstations	Combination occupancy/daylight sensor	Sense occupancy Sense vacancy Sense vacancy in all zones	All	On Dim Off	Continously dim to maintain 40FC 15 % - time delay 20 min 0% - time delay 20 min
157D	Dispatch	Four button control station	Button 1 Button 2 Button 3 Button 4	L40A z1 uplight L40A z1 uplight L40A z2 downlight L40A z2 downlight	Ramp up Ramp down Ramp up Ramp down	Current setting to 100% Current setting to 0% Current setting to 100% Current setting to 0%
		Four button control station	Button 1 Button 2 Button 3 Button 4	L40A z3 uplight L40A z3 uplight L40A z4 downlight L40A z4 downlight	Ramp up Ramp down Ramp up Ramp down	Current setting to 100% Current setting to 0% Current setting to 100% Current setting to 0%
		Four button control station	Button 1 Button 2 Button 3 Button 4	L40A z5 uplight L40A z5 uplight L40A z6 downlight L40A z6 downlight	Ramp up Ramp down Ramp up Ramp down	Current setting to 100% Current setting to 0% Current setting to 100% Current setting to 0%
		Four button control station	Button 1 Button 2 Button 3 Button 4	L40A z7 uplight L40A z7 uplight L40A z8 downlight L40A z8 downlight	Ramp up Ramp down Ramp up Ramp down	Current setting to 100% Current setting to 0% Current setting to 100% Current setting to 0%
		Four button control station	Button 1 Button 2	L40A z9 L40A z9	Ramp up Ramp down	Current setting to 100% Current setting to 0%
C01, C02, C03, C04, C05, C06, C07, C08, C09, C11, C12, C13, C14, C15, C16, C17, 105, 106A, 106B, 106D, 107J, 121, 122A, 149B, 149C, 157C, 165A, 165B, 171J, C21, C22, C23, C24, C25	Corridors/Hallways	Occupancy sensor	Sense occupancy Sense vacancy	All	On Dim	100% 50% - time delay 20 min
102, 103, 106K, 106L, 122E, 123, 124, 134, 135, 149D, 157N, 162, 163, 165J, 181A, 181B, 181C, 181D, 181E, 181F, 183, 184, 185, 188A, 188B, 188C, 188D, 188E, 188F, 208A, 208B, 208E,	Restrooms/Locker Rooms	Ceiling mounted occupancy sensor	Sense occupancy Sense vacancy	All	On Off	90% 0% - time delay 20 min
107D, 109G, 143, 148E, 151F, 157B, 164B, 164C, 166, 167, 168, 169, 171A, 171B, 172, 173, 176C, 177, 178, 182, 192A, 192B,201A, 201B, 201C, 201D, 202, 203, 204, 205, 206, 207, 209, 211, 212, 213,	Storage/Supplies/Evidence/ Dock	Ceiling mounted occupancy sensor	Sense occupancy Sense vacancy Sense vacany in all zones	All	On Dim Off	90% 15% - time delay 20 min 0% - time delay 20 min
161A, 161B	Main Break, Vending	Ceiling mounted occupancy sensor	Sense occupancy Sense vacancy	All	On Dim	90% 20% - time delay 20 min
161D	Sun Room	Combination occupancy/daylight sensor	Sense occupancy Sense vacancy	All	On Off	Continously dim to maintain 20 FC 0%
106Y, 118, 161C	Coffee/Copy/Kitchen	Ceiling mounted occupancy sensor	Sense occupancy Sense vacancy	All	On Dim	90% 20% - time delay 20 min
106J	Chief's Office	Wall mounted cccupancy/vacancy sensor with override switch	Button press Button hold Button press Sense vacancy	All	On Ramp up/down Off Off	90% 100%-0% 0% 0%
157E, 158, 159, 161E, 161F, 161G	Lounge/Lactation, Phone Booth	Ceiling mounted occupancy sensor	Sense occupancy Sense vacancy	All	On Dim	90% 20% - time delay 20 min
174, 194A, 194B, 194C, 214, 215, 301	Elec/Mechanical	Wall switch	Toggle	All	On Off	100% 0%
ST01, ST02, ST03, ST04, ST05, ST06, ST07	Stairs	Ceiling mounted occupancy sensor	Sense occupancy Sense vacancy	All	On Dim	90% 20% - time delay 20 min
176A, 176B,	Fitness/Gym	Ceiling mounted occupancy sensor	Sense occupancy Sense vacancy Sense vacany in all zones	All	On Dim Off	90% 15% - time delay 20 min 0% - time delay 20 min
208C, 208d	Men's and Women's Sleeping	Dimmer switch with preset	Button press Button hold Button press	All	On Ramp up/down Off	Last setting 100%-0% 0%

Room Control Matrix

SPACE TYPE	ROOM NUMBER	MANUAL ON	MANUAL OFF	DIMMING SWITCH	OVERRIDE SWITCH	MULTI ZONE SWITCH	KEY SWITCH	TIME CLOCK ON	TIME CLOCK OFF	OCCUPANCY SENSOR ON	OCCUPANCY SENSOR OFF	PHOTOCONTROL SWITCHING	PHOTOCONTROL DIMMING	EXTERIOR PHOTOCELL ON/OFF
Level 1														
Reception/Entrance	101A, 101B, 101C, 101D, 106Q, 157A,									X	X			
Exit/Secure Entrance	189, 191									X	X			
Registration	104A, 104B									X	X			
Offices	101E, 104C, 104D, 106B, 106F, 106G, 106H, 106M, 106N, 106R, 106S, 106T, 106U, 106V, 106W, 106X, 107A, 107C, 107D, 107E, 107F, 107G, 107H, 107K, 107L, 107M, 107N, 107P, 107Q, 108D, 108E, 108F, 108G, 108H, 109A, 109B, 111, 113C, 114C, 115, 117, 116B, 116C, 119C, 119D, 119E, 119F, 122B, 122D, 122C, 122F, 126, 127, 128A, 128B, 131C, 131D, 131E, 131F, 131G, 131H, 131J, 131K, 131L, 131M, 132, 133, 136, 137, 138, 139B, 139C, 139D, 141, 142, 144, 145, 146B, 148B, 148C, 148D, 149E, 149F, 149G, 151D, 151E, 151F, 151G, 151H, 152E, 152F, 152G, 153, 154, 156, 155, 157F, 157G, 157H, 157J, 157K, 157L, 157M, 165C, 165D, 165E, 165F, 165G, 165H, 171C, 171D, 171E, 171H, 175A, 175B, 178, 181G, 186, 188G, 193A, 193B,	X	X	X							X			
Conference Rooms	106E, 112, 119B, 147			X		X					X			
Open Offices-High Ceiling <9'	108A, 108C, 116A, 119A, 164A,									X	X			
Open Offices-Low Ceiling >9'	106C, 107B, 113A, 113B, 114A, 114B, 129, 131A, 131B, 131N, 131P, 131Q, 139A, 146A, 148A, 151A, 151B, 152A, 152B, 171F, 171G, 187,									X	X			
Records Workstations	108B									X	X		X	
Dispatch	157D			X		X								
~~Corridors/Hallways~~	~~C01, C02, C03, C04, C05, C06, C07,~~ C08, C09, C11, C12, C13, C14, C15, C16, C17, 105, 106A, 106B, 106D, 107J, 121, 122A, 149B, 149C, 157C, 165A, 165B, 171J,									X	X			
Restrooms/Locker Rooms	102, 103, 106K, 106L, 122E, 123, 124, 134, 135, 149D, 157N, 162, 163, 165J, 181A, 181B, 181C, 181D, 181E, 181F, 183, 184, 185, 188A, 188B, 188C, 188D, 188E, 188F,									X	X			
Storage/Supplies	107D, 109G, 143, 148E, 151F, 157B, 164B, 164C, 166, 167, 168, 169, 171A, 171B, 172, 173, 176C, 177, 178, 182, 192A, 192B,201A, 201B, 201C, 201D, 202, 203, 204, 205, 206, 207, 209, 211, 212, 213,	X	X								X			
Main Break, Vending, Sun Room	161A, 161B, 161D									X	X			
Coffee/Copy/Kitchen	106Y, 118, 161C	X	X	X							X			
Chief's Office	106J	X	X	X							X			
Lounge/Lactation, Phone Booth	157E, 158, 159, 161E, 161F, 161G	X	X	X							X			
Elec/Mechanical/Dock	171B, 173, 174, 194A, 194B, 194C,	X	X											
Stairs	ST01, ST02, ST03, ST05									X	X			
Fitness/Gym	176A, 176B,									X	X			
Level 2														
Restrooms	208A, 208B, 208E,									X	X			
Sleeping Room	208C, 208D			X										
Fitness Center										X	X			
Storage/Evidence	201A, 201B, 201C, 201D, 202, 203, 204, 205, 206, 207, 209, 211, 212, 213,									X	X			
Elec/IDF	214, 215,	X	X											
Stairs	ST03, ST04, ST05, ST06, ST07									X	X			
Hallways/Corridors	C21, C22, C23, C24, C25									X	X			
Level 3														
Mechanical Room	301	X	X											

Dispatch areas highlighted

LIGHTING CONTROL SYSTEM NARRATIVE

Open Office Areas:

Occupancy/vacancy sensing. Lights normally on at 15%. When occupants are sensed, lights ramp up to 100% while occupant is present. If no occupant is sensed after 20 minutes, lights fade to 15% with a 5 second fade.

Private Offices/Chief's Office:

Occupancy/vacancy sensing. Manual control on and dim, vacancy sensing off with 5 second fade after 20 minutes.

Records Workstations

Occupancy/vacancy sensing. Lights normally on at 15%. Occupant vacancy sensing takes precedent over daylight controls. Within the daylight zone, if occupants are sensed, daylighting sensors maintain light levels at an average minimum of 50 footcandles on the workplane. Daylight control fades and timing should be set to avoid erratic and distracting dimming. Outside of the daylight zone, lights ramp up to the set level when occupant is present. If no occupant is sensed after 20 minutes, lights fade to 15% with a 5 second fade.

Dispatch

Manual dimming control of up and downlight within each of five zones as shown on the lighting plan.

Fitness/Gym:

Occupancy/vacancy sensing. Manual control on and dim, vacancy sensing off with 5 second fade after 20 minutes.

Conference Rooms:

Scene preset wall station with 5 buttons: Lights on, Presentation, Lights Off, Manual Raise/Lower. Vacancy sensor turns lights off after 20 minutes of vacancy. Activation of a scene preset will override vacancy off timer if preset is activated during the 20-minute duration.

Hallways, Corridors:

Lights normally on at 100%.

Cafeteria:

Occupancy/vacancy sensing. Lights normally on to 30%. If occupants are sensed, lights ramp up to 80% intensity. After 20 minutes of vacancy, lights ramp down to 30% with a 5 second fade time.

Storage/Evidence/Supplies/Coffee/Copy/Kitchen:

Occupancy/vacancy sensing. Manual control on and dim, vacancy sensing off with 5 second fade after 20 minutes.

Restrooms/Locker Rooms:

Occupancy/vacancy sensing. Lights turn on to 80% automatically when an occupant is sensed, vacancy sensing off with 5 second fade after 20 minutes.

Stairs

Occupancy/vacancy sensing. Lights normally on at 15% until an occupant is sensed, then ramp up to 80%; vacancy sensing off with 5 second fade after 20 minutes.

Sleeping Room

Manual control on, dim, and off.

Reception/Entrance/Registration

Lights normally on at 80%.

Exit/Secure Entrance

Lights normally on at 100%

Electrical/Mechanical/IDF:

Lights locally switched on and off.

Exterior Building and Site

Photocontrol of all exterior building, sign and site lighting. Exterior building and sign lighting normal on level 100%. Site lighting normal on level of 50%. Keypads with button to raise light level to 100% and button for 50% light level located in Records Workstation 108B and Patrol Sergeants 131P & Q.

LEVEL 1
PERIMETER WINDOW SHADE CONTROL SYSTEM NARRATIVE

Open and Private Office Areas:

The motorized window shade and lighting system at the perimeter windows will be automatically controlled by an astronomic timeclock. Manual override switches will be provided at each office to manually and independently control the shade and light in each area.

The shades will be retracted and the adjacent window shade light (type L43 series) will be normally off during the day. At a pre-determined time each afternoon/evening the shades will lower and the shade light will turn on to a preset level. At sunrise the shade will retract and the light will turn off.

EXHIBIT F

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ISSUED FOR CONSTRUCTION
11/08/2021

PUBLIC SAFETY CENTER
911 KUENZLI STREET - RENO, NV

ISSUED FOR PERMIT 03/14/2021
ISSUED FOR BID 04/27/2021
ISSUED FOR CONSTRUCTION 11/08/2021

Revisions :

Sheet Title :
LIGHTING CONTROL SYSTEM SCHEDULES

project no: MBA 1925
date: 11/08/2021
drawing name: ltg_Schedules and Notes
Sheet No :
PSC Remodel
LP1.02

NAC 623.780

New lighting dedicated to Dispatch

MATCHLINE SEE LP3.02

Level 1 Area 'A' Lighting Plan

1/8" = 1'-0"

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11/08/2021

Revisions :

1 04/27/2021: PLAN REVIEW

Sheet Title :
LEVEL 1 AREA 'A'
LIGHTING PLAN

project no: MBA 1925
date: 11/08/2021
drawing name: ltg_Level 1

Sheet No :
PSC Remodel
LP3.01

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