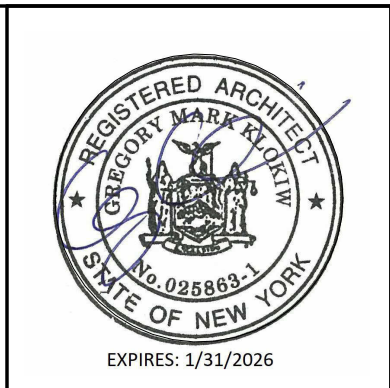


BINGHAMTON CITY SCHOOL DISTRICT

THEODORE ROOSEVELT ELEMENTARY SCHOOL

2024 CAPITAL PROJECT



ISSUED FOR BID: 03/12/2026

CSARCH - ARCHITECTS & M.E.P. ENGINEERS
PASSERO ASSOCIATES - STRUCTURAL & CIVIL ENGINEERS
ATLANTIC TESTING LABORATORIES - ENVIRONMENTAL ENGINEERS
ENGINEERED SOLUTIONS - FIRE PROTECTION ENGINEERS

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:
2024 CAPITAL PROJECT 03-02-00-01-0-010-014
THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

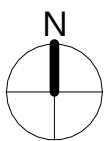
CSArch PROJECT NO. 215-2402



Theodore Roosevelt
Elementary School, 9
Ogden St, Binghamton,
NY 13901

VICINITY MAP

NTS



DRAWING LIST - VOLUME 1

GENERAL DRAWINGS	
G001	SYMBOLS, ABBREVIATIONS, AND MISC
G101	OVERALL BASEMENT FLOOR PLAN
G111	OVERALL FIRST FLOOR PLAN
G121	OVERALL SECOND FLOOR PLAN
G400	OVERALL ROOF PLAN
LIFE SAFETY DRAWINGS	
LS101	BASEMENT LIFE SAFETY PLANS
LS111	FIRST FLOOR LIFE SAFETY PLANS
LS121	SECOND FLOOR LIFE SAFETY PLANS
HAZARDOUS MATERIALS DRAWINGS	
HZ101	ABATEMENT NOTES AND SCHEDULES
HZ102	ABATEMENT PLAN - BASEMENT
HZ103	ABATEMENT PLAN - FIRST FLOOR
HZ104	ABATEMENT PLANS - SECOND AND THIRD FLOORS
HZ105	ABATEMENT PLAN - ROOF
SITE DRAWINGS	
C102	NOTES
C120	DEMOLITION PLAN
C130	SITE PLAN
C140	UTILITY, EROSION AND SEDIMENT CONTROL & GRADING PLAN
C150	LIGHTING AND LANDSCAPING PLAN
CS30	SITE DETAILS
CS31	STORMWATER, EROSION AND SEDIMENT CONTROL DETAILS
STRUCTURAL GENERAL DRAWINGS	
S001	GENERAL NOTES
S002	DESIGN CRITERIA AND SCHEDULES
S003	COLUMN SCHEDULE
S004	C&C DIAGRAMS
S005	C&C AND SNOW DRIFT DIAGRAMS
S006	SPECIAL INSPECTIONS
STRUCTURAL DEMOLITION DRAWINGS	
SD100	STRUCTURAL DEMO PLANS
STRUCTURAL DRAWINGS	
S100	OVERALL FOUNDATION PLAN
S101	FOUNDATION/ SLAB PLAN - AREA 1
S102	FOUNDATION/ SLAB PLAN - AREA 2
S103	FOUNDATION/ SLAB PLAN - AREA 3
S110	OVERALL 2ND FLOOR/LOW ROOF FRAMING PLAN
S111	2ND FLOOR/LOW ROOF FRAMING PLAN - AREA 1
S112	2ND FLOOR/LOW ROOF FRAMING PLAN - AREA 2
S113	2ND FLOOR/LOW ROOF FRAMING PLAN - AREA 3
S120	OVERALL HIGH ROOF FRAMING PLAN
S123	HIGH ROOF FRAMING PLAN - AREA 3
S201	PARTIAL PLANS AND DETAILS
S202	PARTIAL PLANS AND DETAILS
S301	FOUNDATION SECTIONS & DETAILS
S302	PIER AND PLASTER DETAILS
S303	FRAMING SECTIONS & DETAILS
S304	FRAMING SECTIONS & DETAILS
S305	FRAMING SECTIONS & DETAILS
S306	FRAMING SECTIONS & DETAILS
S307	FRAMING SECTIONS & DETAILS
S401	BRACED FRAME ELEVATIONS
S501	TYPICAL CONCRETE DETAILS
S502	TYPICAL CONCRETE DETAILS
S503	TYPICAL MASONRY DETAILS
S504	TYPICAL STEEL DETAILS
S505	TYPICAL STEEL DETAILS
ARCHITECTURAL DEMOLITION DRAWINGS	
AD100	OVERALL BASEMENT FLOOR DEMOLITION PLAN
AD101	PARTIAL BASEMENT FLOOR DEMOLITION PLAN - AREA '1'
AD102	PARTIAL BASEMENT FLOOR DEMOLITION PLAN - AREA '2'
AD110	OVERALL FIRST FLOOR DEMOLITION PLAN
AD111	PARTIAL FIRST FLOOR DEMOLITION PLAN - AREA '1'
AD112	PARTIAL FIRST FLOOR DEMOLITION PLAN - AREA '2'
AD122	SECOND AND THIRD FLOOR DEMOLITION PLANS - AREA '1'
AD411	PARTIAL ROOF DEMOLITION PLAN - AREA '1'
AD412	PARTIAL ROOF DEMOLITION PLAN - AREA '2'
AD811	PARTIAL FIRST FLOOR DEMOLITION RCP - AREA '1'

DRAWING LIST - VOLUME 2

ARCHITECTURAL DRAWINGS	
A101	PARTIAL BASEMENT FLOOR PLAN - AREA '1'
A111	PARTIAL FIRST FLOOR PLAN - AREA '1'
A112	PARTIAL FIRST FLOOR PLAN - AREA '2'
A113	PARTIAL FIRST FLOOR PLAN - AREA '3'
A114-A	CANOPY ALTERNATE
A123	PARTIAL SECOND FLOOR PLAN - AREA '3'
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A203	EXTERIOR ELEVATIONS
A204	EXTERIOR ELEVATIONS
A251	BUILDING SECTIONS
A252	BUILDING SECTIONS
A301	WALL SECTIONS
A302	WALL SECTIONS
A303	WALL SECTIONS
A304	WALL SECTIONS
A305	WALL SECTIONS
A351	SECTION DETAILS
A352	SECTION DETAILS & MARQUEE DETAILS
A353	SECTION DETAILS
A361	PLAN DETAILS
A362	PLAN DETAILS
A363	PLAN DETAILS
A411	PARTIAL ROOF PLAN - AREA '1'
A412	PARTIAL ROOF PLAN - AREA '2'
A413	PARTIAL ROOF PLAN - AREA '3'
A451	TYPICAL ROOF DETAILS - RECOAT
A452	TYPICAL ROOF DETAILS - NEW ROOF
A453	TYPICAL ROOF DETAILS
A454	TYPICAL ROOF DETAILS
A501	STAIR PLANS AND SECTIONS
A502	ELEVATOR PLANS, SECTIONS AND DETAILS
A551	STAIR DETAILS
A601	TYPICAL EQUIPMENT PLANS, ELEVATIONS AND DETAILS
A602	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS - AREA '1'
A603	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS - AREA '1'
A604	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS - AREA '1'
A605-A	INTERIOR ELEVATIONS - AREA '1' - ALTERNATE
A606-A	INTERIOR ELEVATIONS - AREA '1' - ALTERNATE
A607	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS - AREA '1'
A608	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS - AREA '2'
A609	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS - AREA '2'
A610	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS - AREA '2'
A611	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS - AREA '2'
A612	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS - AREA '3'
A613	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS - AREA '3'
A614	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS - AREA '3'
A651	CASEWORK DETAILS
A652	CASEWORK DETAILS
A653	CASEWORK DETAILS
A654	CASEWORK DETAILS
A701	PARTITION TYPES
A702	PARTITION TYPES
A811	PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - AREA '1'
A812	PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - AREA '2'
A813	PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - AREA '3'
A814	ENLARGED FIRST FLOOR REFLECTED CEILING PLAN - AREA '1'
A823	PARTIAL SECOND FLOOR REFLECTED CEILING PLAN - AREA '3'
A901	DOOR SCHEDULE
A902	DOOR ELEVATIONS AND DETAILS
A911	WINDOW ELEVATIONS AND DETAILS
A921	STOREFRONT ELEVATIONS AND DETAILS
ARCHITECTURAL FINISHES	
AF001	MATERIAL SCHEDULE
AF002	ROOM FINISH SCHEDULE
AF003	FINISH MATERIAL DETAILS
AF004	FINISH MATERIAL DETAILS
AF005	FINISH MATERIAL DETAILS
AF111	FIRST FLOOR FINISH PLAN - AREA '1'
AF112	FIRST FLOOR FINISH PLAN - AREA '2'
AF113	FIRST FLOOR FINISH PLAN - AREA '3'
AF123	SECOND FLOOR FINISH PLAN - AREA '3'
AF201	SIGN TYPES
AF202	SIGN SCHEDULE
FURNITURE AND EQUIP. FLOOR PLANS	
FE111	FIRST FLOOR FURNITURE PLAN - AREA '1'
FE112	FIRST FLOOR FURNITURE PLAN - AREA '2'
FE113	FIRST FLOOR FURNITURE PLAN - AREA '3'
FE123	SECOND FLOOR FURNITURE PLAN - AREA '3'

DRAWING LIST - VOLUME 3

FIRE PROTECTION GENERAL DRAWING	
FP001	FIRE PROTECTION LEGEND, NOTES AND DETAILS
FIRE PROTECTION DRAWINGS	
FP312	PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - AREA 2
FP313	PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - AREA 3
FP323	PARTIAL SECOND FLOOR FIRE PROTECTION PLAN - AREA 3
PIPING AND INSTRUMENTATION DIAGRAM GENERAL DRAWING	
DJ000	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
PIPING AND INSTRUMENTATION DIAGRAM DRAWINGS	
DJ101	MECHANICAL PID
DJ201	PLUMBING PID
PLUMBING GENERAL DRAWING	
PG000	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
PLUMBING DEMOLITION DRAWINGS	
PD101	BASEMENT DEMOLITION PLAN - AREA '1'
PD102	BASEMENT DEMOLITION PLAN - AREA '2'
PD111	FIRST FLOOR DEMOLITION PLAN - AREA '1'
PD112	DEMOLITION FLOOR PLANS - AREA '2'
PD401	ROOF DEMOLITION PLAN
PLUMBING DRAWINGS	
P101	BASEMENT PLAN - AREA '1'
P102	UNDERSLAB PLAN - AREA '2'
P103	UNDERSLAB PLAN - AREA '3'
P111	FIRST FLOOR PLAN - AREA '1'
P112	FIRST FLOOR PLAN - AREA '2'
P113	FIRST FLOOR PLAN - AREA '3'
P123	SECOND FLOOR PLAN - AREA '3'
P401	ROOF PLAN
P501	DOMESTIC RISER DIAGRAMS
P502	SANITARY RISER DIAGRAMS
P601	DETAILS
P901	SCHEDULES
MECHANICAL GENERAL DRAWING	
MG000	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
MECHANICAL DEMOLITION DRAWINGS	
MD101	BASEMENT DEMOLITION PLAN - AREA '1'
MD111	FIRST & SECOND FL DEMOLITION PLANS - AREA '1'
MD401	ROOF DEMOLITION PLAN - AREA '1'
MECHANICAL DRAWINGS	
M111	FIRST FLOOR PLAN - AREA '1'
M112	FIRST FLOOR PLAN - AREA '2'
M113	FIRST FLOOR PLAN - AREA '3'
M123	SECOND FLOOR PLAN - AREA '3'
M211	FIRST FLOOR PLAN - AREA '1'
M212	FIRST FLOOR PLAN - AREA '2'
M213	FIRST FLOOR PLAN - AREA '3'
M223	SECOND FLOOR PLAN - AREA '3'
M311	ENLARGED PLANS
M312	SECTIONS
M401	ROOF PLAN
M601	DETAILS
M901	VENTILATION SCHEDULE
M902	SCHEDULES
M903	SCHEDULES

DRAWING LIST - VOLUME 4

ELECTRICAL GENERAL DRAWING	
EG000	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
ELECTRICAL DEMOLITION DRAWINGS	
ED101	OVERALL BASEMENT DEMOLITION PLAN
ED111	FIRST FLOOR DEMOLITION PLANS - AREA '1'
ED112	DEMOLITION PLANS - AREA '2'
ED301	ENLARGED DEMOLITION PLANS
ED401	ROOF DEMOLITION PLANS - AREA '1'
ELECTRICAL DRAWINGS	
E001	ELECTRICAL SITE PLAN
E111	FIRST FLOOR POWER PLAN - AREA '1'
E112	FIRST FLOOR POWER PLAN - AREA '2'
E113	FIRST FLOOR POWER PLAN - AREA '3'
E123	SECOND FLOOR POWER PLAN - AREA '3'
E130	ROOF POWER PLAN
E211	FIRST FLOOR LIGHTING PLAN - AREA '1'
E212	FIRST FLOOR LIGHTING PLAN - AREA '2'
E213	FIRST FLOOR LIGHTING PLAN - AREA '3'
E221	SECOND FLOOR LIGHTING PLAN - AREA '3'
E301	ENLARGED POWER PLANS
E501	ELECTRICAL RISER DIAGRAMS & SCHEDULES
E901	SCHEDULES AND DETAILS
E902	PANEL SCHEDULES
TECHNOLOGY DRAWINGS	
T111	FIRST FLOOR TECHNOLOGY PLAN - AREA '1'
T112	FIRST FLOOR TECHNOLOGY PLAN - AREA '2'
T113	FIRST FLOOR TECHNOLOGY PLAN - AREA '3'
T123	SECOND FLOOR TECHNOLOGY PLAN - AREA '3'
T301	TECHNOLOGY ENLARGED PLANS
T901	TECHNOLOGY DETAILS
T902	TECHNOLOGY DETAILS
FIRE ALARM GENERAL DRAWING	
FA000	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
FIRE ALARM DRAWINGS	
FA101	OVERALL BASEMENT FIRE ALARM PLAN
FA111	FIRST FLOOR FIRE ALARM PLAN - AREA '1'
FA112	FIRST FLOOR FIRE ALARM PLAN - AREA '2'
FA113	FIRST FLOOR FIRE ALARM PLAN - AREA '3'
FA123	SECOND FLOOR FIRE ALARM PLAN - AREA '3'
FA130	ROOF FIRE ALARM PLAN
FA301	FIRE ALARM ENLARGED PLANS

ABBREVIATIONS			
A	AMPERE	KV	KILOVOLT
AV	AUDIO/VISUAL	KVA	KILOVOLT-AMPERE
AC	ABOVE CEILING; ABOVE COUNTER; ALTERNATING CURRENT	KW	KILOWATT
AS/AF	AMPERE RATING OF SWITCH/FUSE	KWH	KILOWATT-HOUR
AFF	ABOVE FINISHED FLOOR		
AFG	ABOVE FINISHED GRADE	LAN	LOCAL AREA NETWORK
AHJ	AUTHORITY HAVING JURISDICTION	LTG	LIGHTING
AIC	AMPERE INTERRUPTING CAPACITY		
AL	ALUMINUM	MCB	MAIN CIRCUIT BREAKER
ALT	ALTERNATE	MCC	MOTOR CONTROL CENTER
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
AF/AT	AMPERE RATING OF CIRCUIT BREAKER FRAME/TRIP	MH	MANHOLE; MOUNTING HEIGHT
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUG ONLY
AUX	AUXILIARY	MRS	MOTOR RATED SWITCH
AWG	AMERICAN WIRE GAUGE		
		N	NEUTRAL
BAS	BUILDING AUTOMATION SYSTEM	NA	NOT APPLICABLE
BATS	BYPASS AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED; NEW CONNECTION
BC	BARE COPPER	NE	NEW LOCATION FOR EXISTING ITEM
BFC	BELOW FINISHED CEILING	NEC	NATIONAL ELECTRICAL CODE
BFG	BELOW FINISHED GRADE	NF	NON-FUSED
BFL	BELOW FLOOR LEVEL	NIC	NOT IN CONTRACT
BLDG	BUILDING	NO	NORMALLY OPEN
BMS	BUILDING MANAGEMENT SYSTEM	NTS	NOT TO SCALE
BOD	BASIS OF DESIGN		
BKR	BREAKER	OH	OVERHEAD
		OD	ON-OFF
C	CONDUIT		
CATV	CABLE TELEVISION	P	POLE
CB	CIRCUIT BREAKER	PA	PUBLIC ADDRESS SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION	PB	PULL BOX; PUSH BUTTON
CKT	CIRCUIT	PC	PHOTOCELL
CLG	CEILING	PDU	POWER DISTRIBUTION UNIT
CORR	CORRIDOR	PF	POWER FACTOR
CPT	CONTROL POWER TRANSFORMER	PH	PHASE
CT	CURRENT TRANSFORMER	PNL	PANEL
CTRL	CONTROL	PT	POTENTIAL TRANSFORMER
CU	COPPER	PWR	POWER
		RCPT	RECEPTACLE
D	DELTA CONNECTION	RE	RELOCATE EXISTING ITEM
DC	DIRECT CURRENT		
DIA	DIAMETER		
DN	DOWN	SFL	SUB-FED LUGS
DPDT	DOUBLE POLE DOUBLE THROW	SHT	SHEET
DPST	DOUBLE POLE SINGLE THROW	SPD	SURGE PROTECTIVE DEVICE
DWG	DRAWING	SPEC	SPECIFICATION
		SPKR	SPEAKER
ECB	ENCLOSED CIRCUIT BREAKER	SS	SAFETY SWITCH; START-STOP
EFF	EFFICIENCY	ST	SHUNT TRIP
EGC	EQUIPMENT GROUND CONDUCTOR	SW	SWITCH
ELEC	ELECTRIC/ELECTRICAL	SWBD	SWITCHBOARD
ELEV	ELEVATOR	SWGR	SWITCHGEAR
ELU	EMERGENCY LIGHTING UNIT		
EM	EMERGENCY	TC	TIME CLOCK
EMI	ELECTROMAGNETIC INTERFERENCE	TEL	TELEPHONE; TELECOM
EPO	EMERGENCY POWER OFF	TS	TIME SWITCH
EQUIP	EQUIPMENT	TV	TELEVISION
EXR	EXISTING TO REMAIN	TYP	TYPICAL
FA	FIRE ALARM	UC	UNDERCOUNTER
FC	FOOTCANDLE	UG	UNDERGROUND
FDR	FEEDER	UON	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPERES	UPS	UNINTERRUPTIBLE POWER SUPPLY
FLR	FLOOR		
FSS	FUSED SAFETY SWITCH	V	VOLT
		VA	VOLT-AMPERE
G	GROUND	VAR	VOLT-AMPERE REACTIVE
GEC	GROUNDING ELECTRODE CONDUCTOR	VFD	VARIABLE FREQUENCY DRIVE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VP	VAPOR PROOF
GFP	GROUND FAULT PROTECTION		
GEN	GENERATOR	W	WIRE; WATT
GP	GENERAL PURPOSE (NON-HAZARDOUS)	W/	WITH
		WP	WEATHERPROOF
HH	HANDHOLE		
HOA	HAND OFF AUTOMATIC	XFMR	TRANSFORMER
HP	HORSEPOWER	XP	EXPLOSION PROOF
		Y	WYE CONNECTION
IG	ISOLATED GROUND		

GENERAL	
	PROPOSED WORK (THICK LINE)
	EXISTING (HALFTONE, THIN LINE)
	DEMOLITION WORK (DASHED, THICK LINE)
	KEY NOTE, NUMBER INSIDE REFERS TO MATCHING KEY NOTE
	DETAIL CALLOUT

RACEWAYS	
	CONDUIT
	CONDUIT BELOW GRADE OR EMBEDDED WITHIN SLAB
	CONDUIT UP
	CONDUIT DOWN
	PULL BOX
	HOMERUN BACK TO PANEL (PANEL AND CIRCUITS INDICATED)

WIRING DEVICE	
	DUPLEX RECEPTACLE, 125V, WALL MOUNTED, SUBSCRIPT DENOTES: AC - ABOVE COUNTER G - GROUND FAULT CIRCUIT INTERRUPTER SPD - SURGE PROTECTED USB - USB CHARGING WP - WEATHER PROOF # - CIRCUIT NUMBER
	DUPLEX RECEPTACLE, 125V, DEDICATED, WALL MOUNTED
	DOUBLE DUPLEX RECEPTACLE, 125V, WALL MOUNTED
	SINGLE RECEPTACLE, 125V, WALL MOUNTED
	SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED, WALL MOUNTED
	CONNECTION TO ELECTRIFIED FURNITURE SYSTEM, WALL MOUNTED
	DUPLEX RECEPTACLE, 125V, IN CEILING
	DOUBLE DUPLEX RECEPTACLE, 125V, IN CEILING
	SINGLE RECEPTACLE, 125V, IN CEILING
	SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED, IN CEILING
	DUPLEX RECEPTACLE, 125V, IN FLOOR
	DOUBLE DUPLEX RECEPTACLE, 125V, IN FLOOR
	SINGLE RECEPTACLE, 125V, IN FLOOR
	SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED, IN FLOOR
	CONNECTION TO ELECTRIFIED FURNITURE SYSTEM, IN FLOOR
	JUNCTION BOX, IN CEILING
	JUNCTION BOX, IN WALL
	CORD REEL
	DROP CORD
	EMERGENCY POWER OFF
	MULTIMEDIA BOX, SUBSCRIPT DENOTES: MD - MAIN DISPLAY - (X) HDMI, (X) USB, DUPLEX RECEPTACLE, AND (X) CATX PER LOCATION TS - TEACHER STATION - (X) HDMI, (X) USB, DOUBLE DUPLEX RECEPTACLE, AND (X) CATX PER LOCATION

LIGHTING	
	TYPICAL LIGHTING FIXTURE, SUBSCRIPT DENOTES: X - FIXTURE DESIGNATION # - CIRCUIT a - LOWER CASE LETTER DENOTES SWITCH CONTROL EM - EMERGENCY BATTERY OR GENERATOR (PER SCHEDULE) NL - UNSWITCHED NIGHT LIGHT DS - FIXTURE CONTROLLED BY LOCAL DAYLIGHT SENSOR
	EXIT SIGN, WALL MOUNTED, ILLUMINATED FACE INDICATED BY SHADING, ARROW INDICATES DIRECTIONAL ARROW REQUIRED
	EXIT SIGN, CEILING MOUNTED, ILLUMINATED FACE INDICATED BY SHADING, ARROW INDICATES DIRECTIONAL ARROW REQUIRED
	DAYLIGHT SENSOR, CEILING MOUNTED
	OCCUPANCY SENSOR, CEILING MOUNTED
	VACANCY SENSOR, CEILING MOUNTED
	TOGGLE SWITCH, SUBSCRIPT DENOTES: 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH a - LOWER CASE LETTER DENOTES SWITCH CONTROL K - KEY SWITCH LV - LOW VOLTAGE SWITCH OS - OCCUPANCY SENSOR WALL SWITCH # - LIGHTING SEQUENCE (REFER TO SCHEDULE)

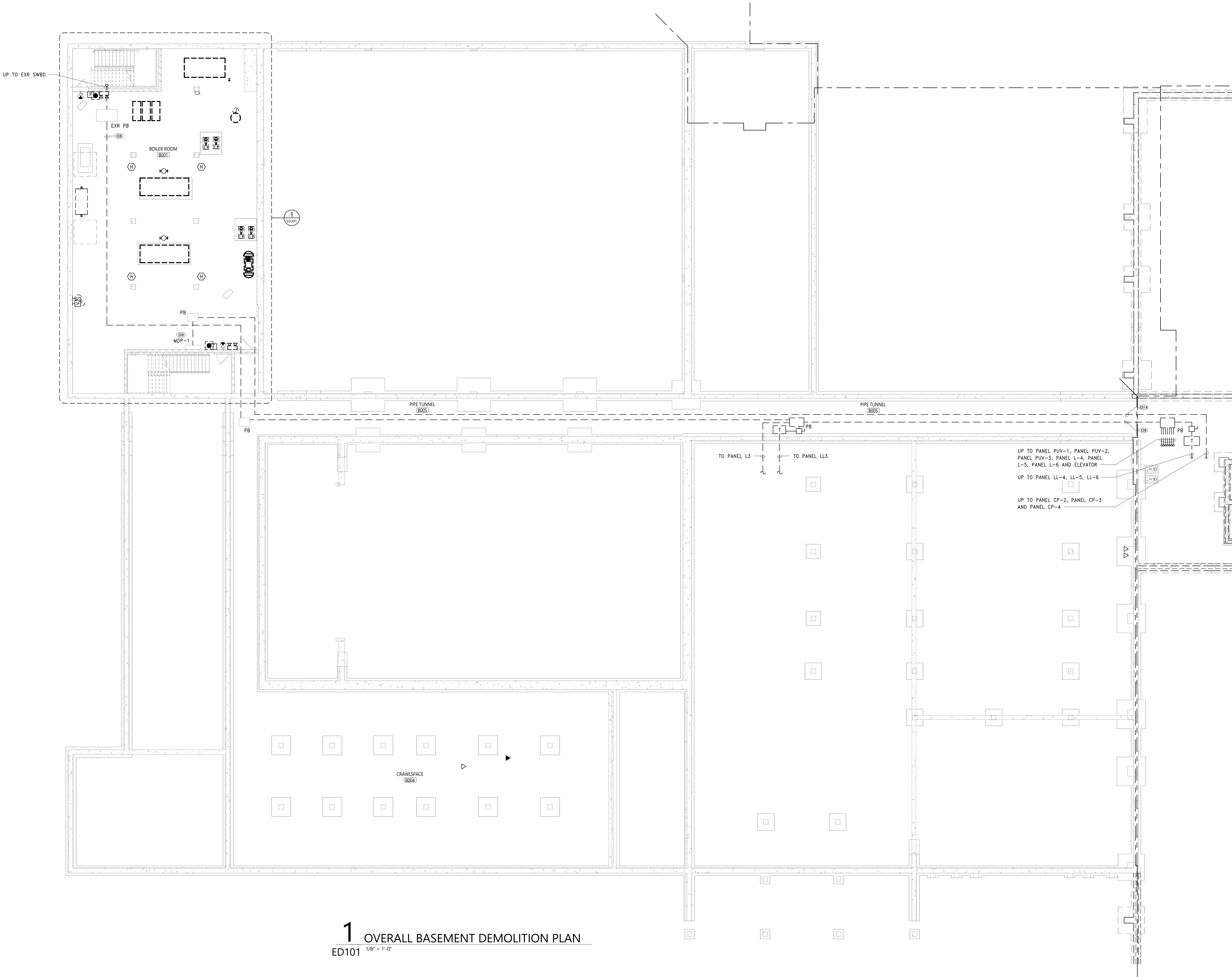
POWER	
	SURFACE MOUNTED PANELBOARD, SIZE APPROXIMATELY AS SHOWN
	RECESSED PANELBOARD, SIZE APPROXIMATELY AS SHOWN
	TRANSFORMER, SIZE APPROXIMATELY AS SHOWN
	DISCONNECT SWITCH
	DISCONNECT SWITCH WITH FUSE
	VARIABLE FREQUENCY DRIVE
	VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT
	TOGGLE SWITCH, SUBSCRIPT DENOTES: M - MOTOR RATED TOGGLE SWITCH
	MAIN GROUND BUS BAR
	TELECOM GROUND BUS BAR

SECURITY	
	CARD READER W - HARDWIRED
	DOOR CONTACT
	REMOTE DOOR RELEASE
	ELECTRONIC LOCK
	ELECTRONIC STRIKE
	INTERCOM SYSTEM, SUBSCRIPT DENOTES: M - MASTER STATION V - VIDEO INTERCOM
	KEYPAD
	MAGNETIC LOCK
	MOTION SENSOR
	PANIC BUTTON / HOLD-UP / DURESS ALARM
	REQUEST TO EXIT
	360 DEGREE SECURITY CAMERA, CEILING MOUNTED
	SECURITY CAMERA, WALL MOUNTED WP - EXTERIOR WEATHER PROOF

DATA & COMMUNICATION	
	DATA OUTLET BOX, WALL MOUNTED #=NUMBER OF CAT6A CABLE DROPS TO BE PROVIDED
	VOICE OUTLET BOX, WALL MOUNTED
	COMBINATION VOICE/DATA OUTLET BOX, WALL MOUNTED
	DATA OUTLET BOX AND DROP, IN CEILING
	DATA OUTLET BOX AND DROP, IN FLOOR
	WIRELESS ACCESS POINT CEILING DATA PORT AND CAT6A DROP
	DATA EQUIPMENT RACK
	SPEAKER, WALL MOUNTED
	SPEAKER, IN CEILING
	CLOCK, WALL MOUNTED
	PUBLIC ADDRESS HEAD-END
	CONDUIT SLEEVE - 11/2" DIAMETER UON.
	WALL MOUNTED DATA RACK CABINET
	PA SPEAKER/CLOC/LLED MESSAGING BOARD, WALL MOUNTED
	CLASSROOM SOUND SYSTEM AMPLIFIER/WIRELESS MICROPHONE RECIEVER
	CLASSROOM SOUND SYSTEM WALL PLATE AMBIENT MICROPHONE
	CLASSROOM SOUND SYSTEM INTERACTIVE TOUCH CONTROLLER
	METAL LADDER TYPE CABLE TRAY - REFER TO PLANS FOR LAYOUT AND OVERALL DIMENSIONS

REV	DATE	DESCRIPTION

Drawn By:	MM
Checked By:	KH
Proj. #:	03-02-00-01-0-010-014
CSArch Proj. #:	215-2402
Issued for Bid:	03/12/2026



1 OVERALL BASEMENT DEMOLITION PLAN
ED101 1/8" = 1'-0"

SHEET NOTES

- A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.
- B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED ON THIS DRAWING SHALL BE REMOVED IN ITS ENTIRETY BACK TO SOURCE PANELBOARD, LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.
- C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.
- D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS TO BE-USED.
- E. DISCONNECT AND REMOVE THE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY. PHASE THE DEMOLITION OF THE EXISTING SYSTEM AS CLOSE AS POSSIBLE TO THE COMMISSIONING OF THE REPLACEMENT SYSTEM INSTALLATION. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.
- F. REMOVE ALL CABLING SUPPORT SYSTEMS FOR CURRENT CABLING. ALL J-HOOKS D-RINGS AND SIMILAR EQUIPMENT SHALL BE REMOVED FROM THE STRUCTURE AND ABOVE ALL CEILINGS.
- G. ALL CABLING FROM DEVICES BEING REMOVED MUST BE REMOVED BACK TO POINT OF ORIGIN. NO CABLES CAN BE ABANDONED IN THE CEILING SPACE PER INTERNATIONAL FIRE CODE SECTION 315.6., UNLESS PHYSICALLY UNABLE TO BE REMOVED DUE TO FIELD CONDITIONS THAT PROHIBIT WORKING IN AN AREA WHERE THE CABLE IS ROUTED. IN THIS CASE, REMOVE CABLE FROM BOTH SIDES OF THE PROHIBITED AREA AND BACK TO POINT OF ORIGIN.

KEY NOTES

- ED8 DISCONNECT AND REMOVE EXISTING POWER FEEDER CONDUCTORS/CONDUIT FROM DESIGNATED POWER DISTRIBUTION EQUIPMENT BACK TO THE EXISTING MAIN ELECTRICAL SERVICE ENTRANCE SWITCHBOARD LOCATED IN ELEC ROOM 102. REFER TO DEMOLITION ELECTRICAL RISER DIAGRAM ON SHEET E501.
- ED9 EXISTING COMPUTER POWER DISTRIBUTION PANELBOARD - MDP-1 (GENERAL ELECTRIC SPECTRA SERIES - 400 AMP MAIN CIRCUIT BREAKER, 208/120 VOLT, 3 PHASE, 4 WIRE, 42KA FULLY RATED WITH PANEL MOUNTED CIRCUIT BREAKER DISTRIBUTION) TO REMAIN.
- ED14 DISCONNECT AND REMOVE EXISTING POWER FEEDER FOR DESIGNATED POWER DISTRIBUTION EQUIPMENT BACK TO EXISTING COMPUTER POWER DISTRIBUTION PANELBOARD MDP-1, LOCATED IN BOILER ROOM 8001. REFER TO DEMOLITION ELECTRICAL RISER DIAGRAM ON SHEET E501.

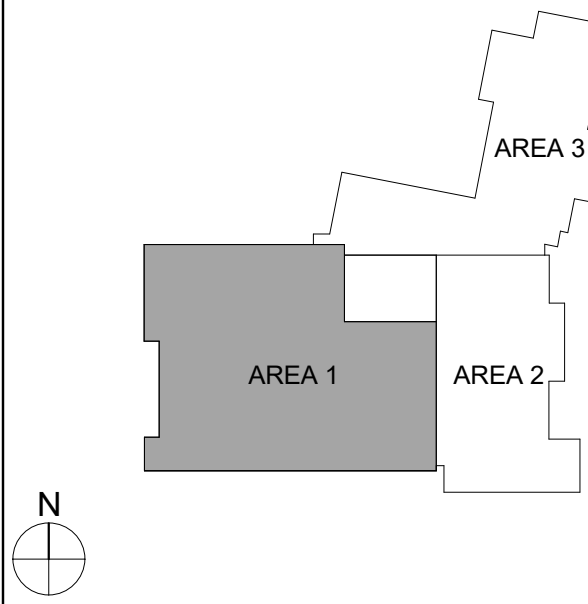
SHEET NOTES

- A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRING TO REMAIN ENERGIZED DURING CONSTRUCTION.
- B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED ON THIS DRAWING ARE TO BE REMOVED. ALL EXISTING BACK TO SOURCE PANELBOARD, LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.
- C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.
- D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS TO BE-USED.
- E. DISCONNECT AND REMOVE THE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY; PHASE THE DEMOLITION OF THE EXISTING SYSTEM AS FAR AS POSSIBLE TO THE COMMISSIONING OF THE REPLACEMENT SYSTEM INSTALLATION. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.
- F. REMOVE ALL CABLING SUPPORT SYSTEMS FOR CURRENT CABLING, ALL J-HOOKS D-RINGS AND SIMILAR EQUIPMENT SHALL BE REMOVED FROM THE STRUCTURE AND ABOVE ALL CEILINGS.
- G. ALL CABLING FROM DEVICES BEING REMOVED MUST BE REMOVED BACK TO POINT OF ORIGIN, NO CABLES CAN BE ABANDONED IN THE CEILING SPACE PER INTERNATIONAL FIRE CODE SECTION 315.6, UNLESS PHYSICALLY UNABLE TO BE REMOVED DUE TO FIELD CONDITIONS THAT PROHIBIT WORKING IN AN AREA WHERE THE CABLE IS ROUTED. IN THIS CASE, REMOVE CABLE FROM BOTH ENDS OF THE PROHIBITED AREA, AND BACK TO POINT OF ORIGIN.

KEY NOTES

- | | |
|-----|---|
| E01 | EXISTING MAIN ELECTRICAL SERVICE ENTRANCE SWITCHBOARD (SQUARE D COMPANY DEE POWER STYLE 1,200 AMP MAIN CIRCUIT BREAKER, 408/208 VOLT 3 PHASE 3 WIRE, 500A) RATED WITH PANEL MOUNTED MAIN CIRCUIT BREAKER DISTRIBUTION) TO REMAIN |
| E02 | DISCONNECT AND REMOVE EXISTING FIRE ALARM CONTROL PANEL (FACP) WITH ASSOCIATED DEVICES, AUXILIARY EQUIPMENT AND ALL EXISTING SYSTEM ALARM NOTIFICATION, NOTIFICATION AND SUPERVISORY CIRCUIT WIRING. EXISTING RACEWAYS SHALL BE MAINTAINED ONLY IF REUSE IS POSSIBLE - OTHERWISE, DISCONNECT AND REMOVE TO THE EXTENT POSSIBLE. |
| E03 | DISCONNECT AND REMOVE EXISTING TELEPHONE CONNECTION CABLE/RACEWAY FROM SERVICE ENTRANCE CABINET TO EXISTING TELEPHONE INTERCONNECTION BACKBOARD. |
| E04 | WITHIN ROOM, DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE(S), ASSOCIATED SWITCH(E)S, CONTROL SWITCHES, CONDUIT AND RACEWAYS. DISCONNECT AND REMOVE AREA INDICATED, DISCONNECT AND REMOVE ALL GENERAL AREA LIGHTING, EMERGENCY AND EXIT LIGHTING FIXTURES, LIGHT SWITCHES/OCCUPANCY SENSORS, CONVENIENCE RECEPTACLES, HVAC EQUIPMENT POWER TERMINALS AND DEVICES, DATA/TELEPHONE DROPS AND ASSOCIATED OUTLETS, MASTER CLOCKS, FIRE ALARM SYSTEM DEVICES (SMOK DETECTORS, HEAT DETECTORS, CARBON MONOXIDE DETECTORS, PULP STATIONS AND HORN/STROBE EQUIPMENT), SECURITY/FIRE/PA SYSTEM DEVICES AND CCTV CAMERA SYSTEM EQUIPMENT. ALL LIGHTING/GENERAL POWER/HVAC EQUIPMENT BRANCH CIRCUIT WIRING AND ASSOCIATED RACEWAYS SHALL BE REMOVED BACK TO SOURCE ELECTRICAL PANELBOARD. |
| E05 | DISCONNECT AND REMOVE ALL EXISTING FIRE, PA, SECURITY AND DATA SYSTEM CABLING AND RACEWAY BACK TO CONTROL PANEL OR DISTRIBUTION RACK. |
| E08 | DISCONNECT AND REMOVE EXISTING POWER FEEDER CONDUCTORS/CONDUIT FROM DESIGNATED POWER DISTRIBUTION EQUIPMENT BACK TO THE EXISTING MAIN ELECTRICAL SERVICE ENTRANCE SWITCHBOARD LOCATED IN ELEC ROOM 102. REFER TO DEMOLITION ELECTRICAL RISER DIAGRAM ON SHEET E501. |
| E10 | DISCONNECT AND REMOVE POWER TO EXISTING MECHANICAL EQUIPMENT WITH ASSOCIATED DISCONNECT SWITCH/STARTER/VAULT BREAKER. DISCONNECT AND REMOVE POWER TO EXISTING CONDUIT/WIRING BACK TO POWER SOURCE PANELBOARD. |
| E15 | DISCONNECT AND REMOVE EXISTING MASTER CLOCK SYSTEM CONSOLE WITH ASSOCIATED DEVICES, AUXILIARY EQUIPMENT AND ALL EXISTING SYSTEM CABLING. |

KEY PLAN



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THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

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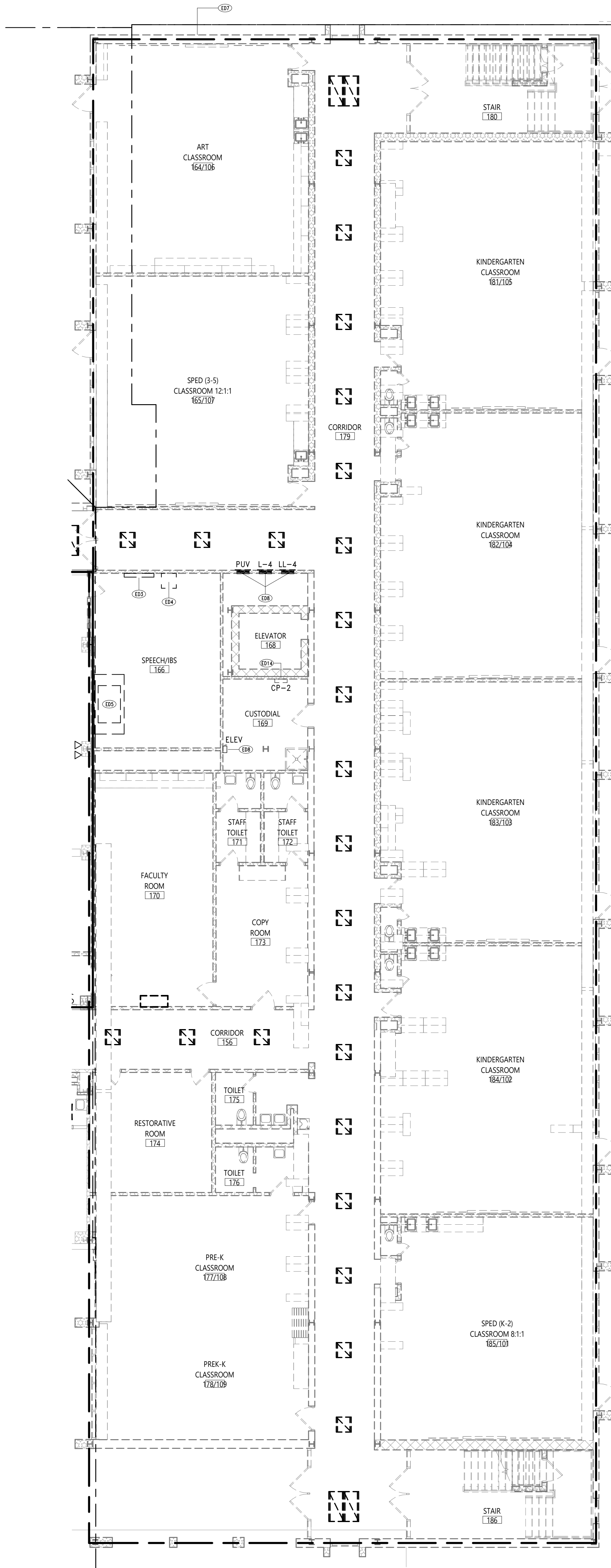
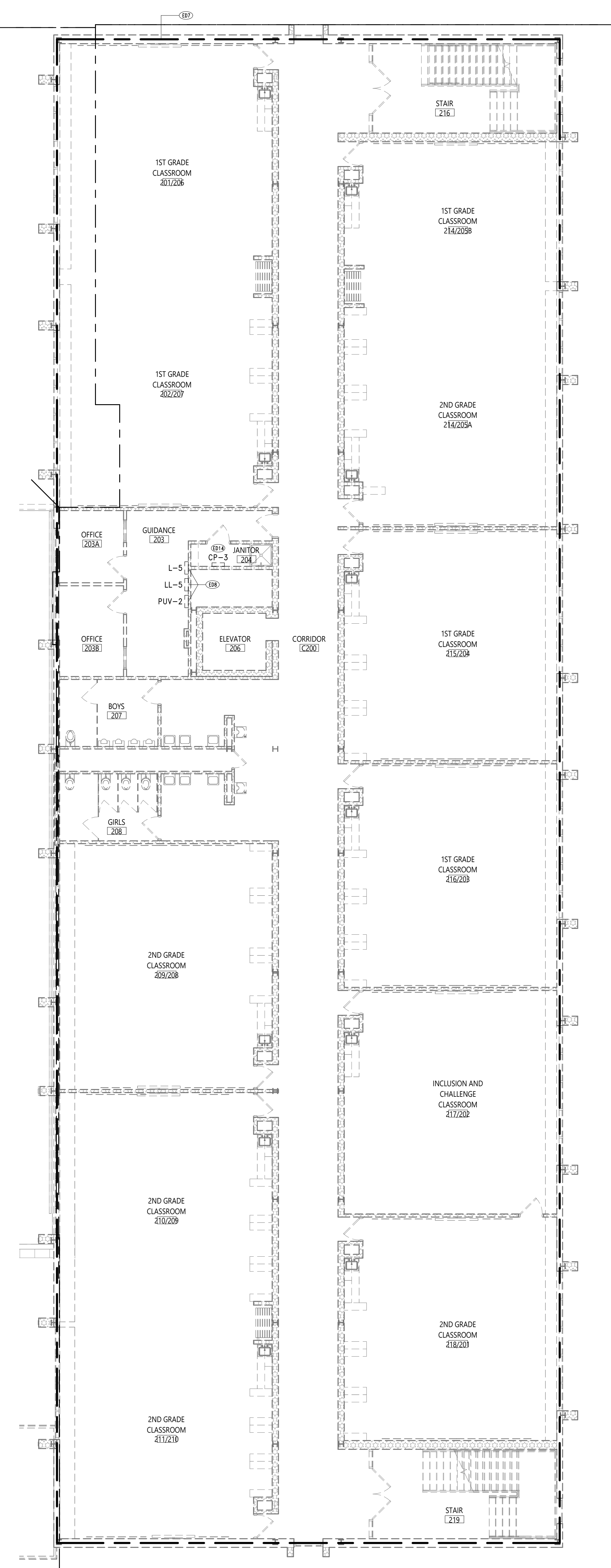
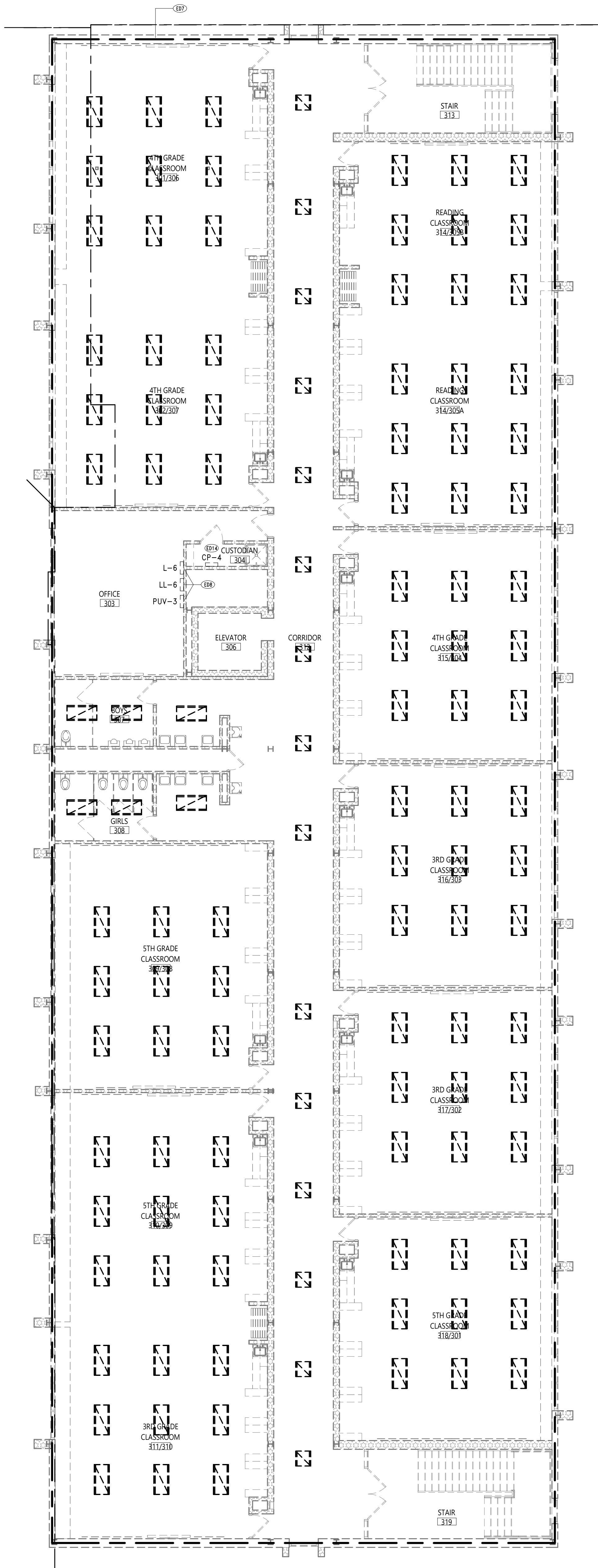
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Sheet Title

FIRST FLOOR
DEMOLITION
PLANS - AREA
'1'

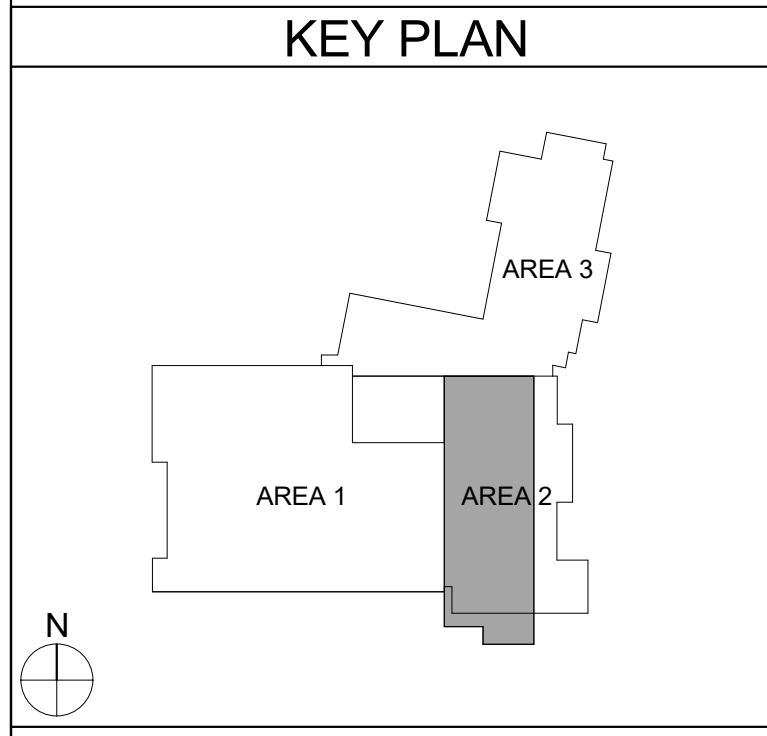
Sheet No. TR
ED111

CONSTRUCTION DOCUMENT



- ### SHEET NOTES
- A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.
- B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED ON THIS DRAWING SHALL BE REMOVED IN ITS ENTIRETY BACK TO SOURCE PANELBOARD, LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.
- C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.
- D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS TO BE-USED.
- E. DISCONNECT AND REMOVE THE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY. PHASE THE DEMOLITION OF THE EXISTING SYSTEM AS CLOSE AS POSSIBLE TO THE COMMISSIONING OF THE REPLACEMENT SYSTEM INSTALLATION. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.
- F. REMOVE ALL CABLING SUPPORT SYSTEMS FOR CURRENT CABLING. ALL J-HOOKS D-RINGS AND SIMILAR EQUIPMENT SHALL BE REMOVED FROM THE STRUCTURE AND ABOVE ALL CEILINGS.
- G. ALL CABLING FROM DEVICES BEING REMOVED MUST BE REMOVED BACK TO POINT OF ORIGIN. NO CABLES CAN BE ABANDONED IN THE CEILING SPACE PER INTERNATIONAL FIRE CODE SECTION 315.6, UNLESS PHYSICALLY UNABLE TO BE REMOVED DUE TO FIELD CONDITIONS THAT PROHIBIT WORKING IN AN AREA WHERE THE CABLE IS ROUTED. IN THIS CASE, REMOVE CABLE FROM BOTH SIDES OF THE PROHIBITED AREA AND BACK TO POINT OF ORIGIN.

- ### KEY NOTES
- ED3 DISCONNECT AND REMOVE EXISTING TELEPHONE CONNECTION CABLE/RACEWAY FROM SERVICE ENTRANCE CABINET TO EXISTING TELEPHONE INTERCONNECTION BACKBOARD.
- ED4 DISCONNECT AND REMOVE EXISTING PUBLIC ADDRESS SYSTEM CONSOLE WITH ASSOCIATED DEVICES, AUXILIARY EQUIPMENT AND ALL EXISTING SYSTEM CABLING. EXISTING RACEWAYS SHALL BE MAINTAINED IN PLACE IF REUSE IS POSSIBLE.
- ED5 DISCONNECT AND REMOVE EXISTING MAIN DATA RACK WITH ASSOCIATED DEVICES, AUXILIARY EQUIPMENT AND ALL EXISTING SYSTEM CABLING SERVING THE THREE-STORY CLASSROOM WING SCHEDULED FOR DEMOLITION. EXISTING RACEWAYS SHALL BE MAINTAINED IN PLACE IF REUSE IS POSSIBLE.
- ED7 WITHIN AREA INDICATED, DISCONNECT AND REMOVE ALL GENERAL AREA LIGHTING, EMERGENCY AND EXIT LIGHTING FIXTURES, LIGHT SWITCHES/OCCUPANCY SENSORS, CONVENIENCE RECEPTACLES, HVAC EQUIPMENT POWER TERMINATIONS, PA SPEAKERS, DATA/TELEPHONE DROPS AND ASSOCIATED OUTLETS, MASTER CLOCKS, FIRE ALARM SYSTEM DEVICES (SMOKE DETECTORS, HEAT DETECTORS, CARBON MONOXIDE DETECTORS, PULL STATIONS AND HORN/STROBE UNITS), SECURITY/INTRUSION SYSTEM DEVICES AND CCTV CAMERA SYSTEM EQUIPMENT. ALL LIGHTING/GENERAL POWER/HVAC EQUIPMENT BRANCH CIRCUIT WIRING AND ASSOCIATED RACEWAYS SHALL BE REMOVED BACK TO SOURCE ELECTRICAL PANELBOARD. DISCONNECT AND REMOVE ALL FIRE ALARM, PA, SECURITY AND DATA SYSTEM CABLING AND RACEWAY BACK TO CONTROL PANEL OR DISTRIBUTION RACK.
- ED8 DISCONNECT AND REMOVE EXISTING POWER FEEDER CONDUCTORS/CONDUIT FROM DESIGNATED POWER DISTRIBUTION EQUIPMENT BACK TO THE EXISTING MAIN ELECTRICAL SERVICE ENTRANCE SWITCHBOARD LOCATED IN ELEC ROOM 102. REFER TO DEMOLITION ELECTRICAL RISER DIAGRAM ON SHEET ES01.
- ED14 DISCONNECT AND REMOVE EXISTING POWER FEEDER FOR DESIGNATED POWER DISTRIBUTION EQUIPMENT BACK TO EXISTING COMPUTER POWER DISTRIBUTION PANELBOARD MDP-1. LOCATED IN BOILER ROOM B001. REFER TO DEMOLITION ELECTRICAL RISER DIAGRAM ON SHEET ES01.



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BINGHAMTON CITY SCHOOL DISTRICT

THEODORE ROOSEVELT ELEMENTARY SCHOOL

2024 CAPITAL PROJECT

Project Title

STATE OF NEW YORK
JAMES R. BARRETT
073467
LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

DATE	DESCRIPTION

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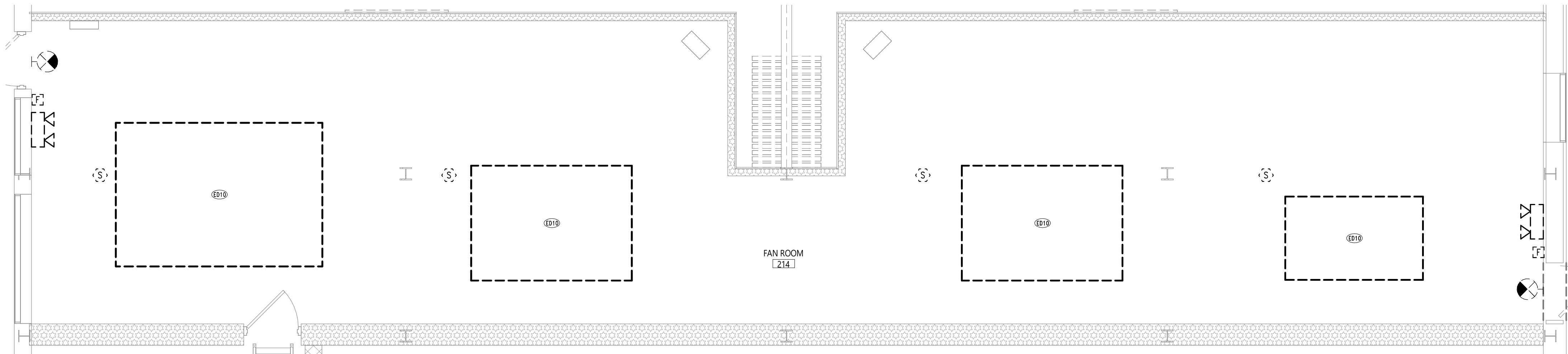
Sheet Title

DEMOLITION PLANS - AREA '2'

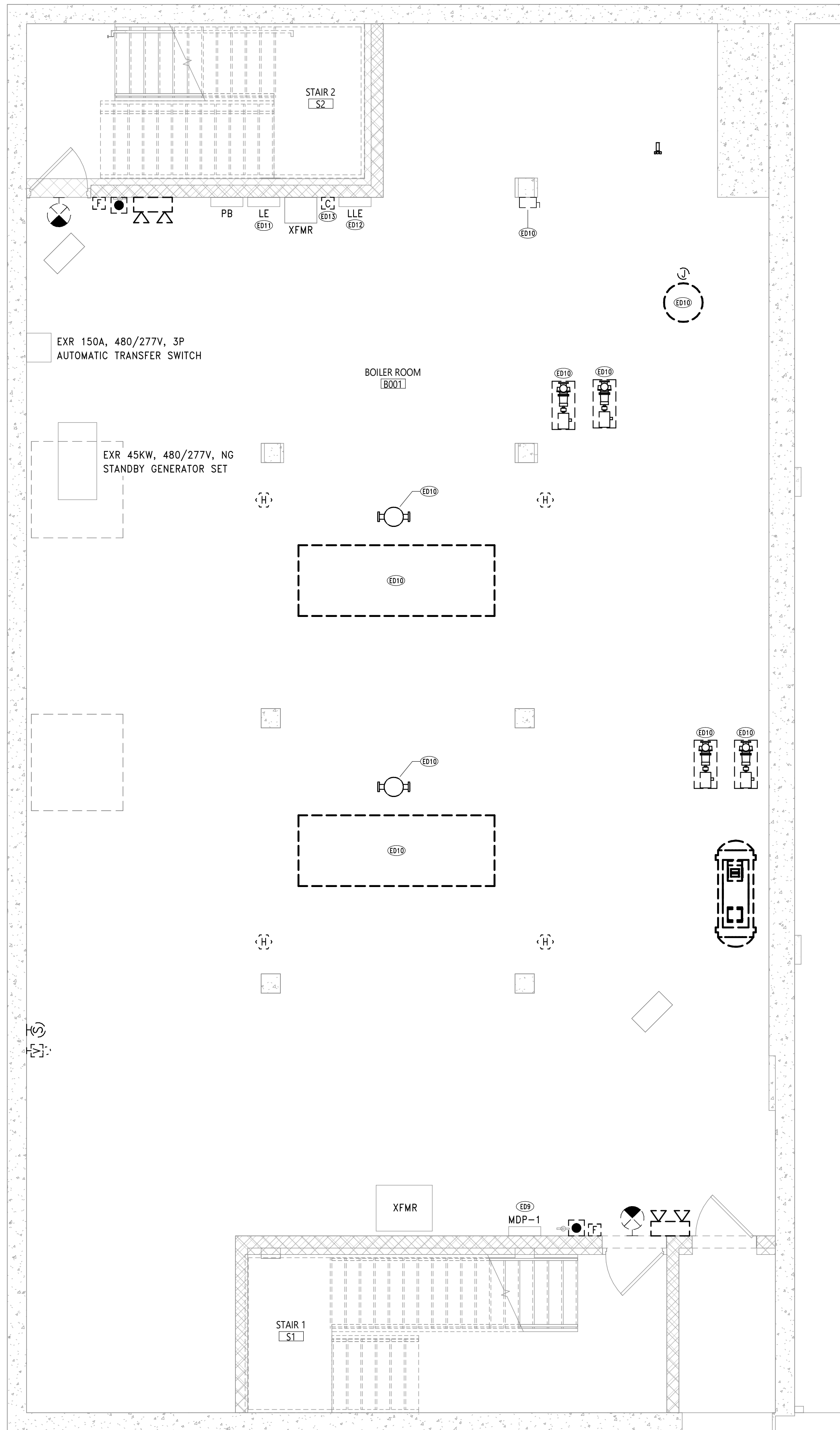
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TR
ED112

CONSTRUCTION DOCUMENTS



2 GYMNASIUM MEZZANINE DEMOLITION PLAN
ED301 1/4" = 1'-0"



1 BOILER ROOM DEMOLITION PLAN
ED301 1/4" = 1'-0"

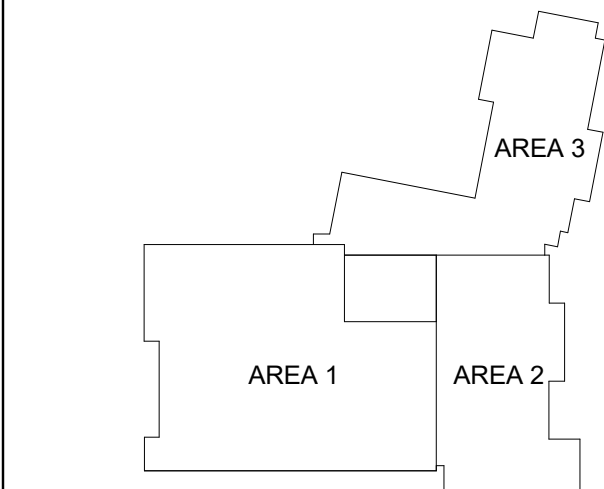
SHEET NOTES

- A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.
- B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED ON THIS DRAWING SHALL BE REMOVED IN ITS ENTIRETY BACK TO SOURCE PANELBOARD, LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.
- C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.
- D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS TO BE-USED.
- E. DISCONNECT AND REMOVE THE EXISTING FIRE ALARM SYSTEM IN ITS ENTIRETY. PHASE THE DEMOLITION OF THE EXISTING SYSTEM AS CLOSE AS POSSIBLE TO THE COMMISSIONING OF THE REPLACEMENT SYSTEM INSTALLATION. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.
- F. REMOVE ALL CABLING SUPPORT SYSTEMS FOR CURRENT CABLING. ALL J-HOOKS D-RINGS AND SIMILAR EQUIPMENT SHALL BE REMOVED FROM THE STRUCTURE AND ABOVE ALL CEILINGS.
- G. ALL CABLING FROM DEVICES BEING REMOVED MUST BE REMOVED BACK TO POINT OF ORIGIN. NO CABLES CAN BE ABANDONED IN THE CEILING SPACE PER INTERNATIONAL FIRE CODE SECTION 315.6., UNLESS PHYSICALLY UNABLE TO BE REMOVED DUE TO FIELD CONDITIONS THAT PROHIBIT WORKING IN AN AREA WHERE THE CABLE IS ROUTED. IN THIS CASE, REMOVE CABLE FROM BOTH SIDES OF THE PROHIBITED AREA AND BACK TO POINT OF ORIGIN.

KEY NOTES

- ED9 EXISTING COMPUTER POWER DISTRIBUTION PANELBOARD - MDP-1 (GENERAL ELECTRIC SPECTRA SERIES - 400 AMP MAIN CIRCUIT BREAKER, 208/120 VOLT, 3 PHASE, 4 WIRE, 42KA FULLY RATED WITH PANEL MOUNTED CIRCUIT BREAKER DISTRIBUTION) TO REMAIN.
- ED10 DISCONNECT AND REMOVE POWER TO EXISTING MECHANICAL EQUIPMENT WITH ASSOCIATED DISCONNECT SWITCH/STARTER/VFD, BRANCH CIRCUIT CONDUIT/WIRING BACK TO POWER SOURCE PANELBOARD.
- ED11 EXISTING TO REMAIN PANELBOARD LE: DISCONNECT AND REMOVE (1)-20 AMP, 277 VOLT BRANCH CIRCUIT SUPPLYING BOILER ROOM LIGHTING. MAINTAIN CIRCUIT CONDUCTORS FOR EXTENSION AND RECONNECTION TO PANEL HP-B1. DISCONNECT AND REMOVE (1)-20 AMP, 277 VOLT BRANCH CIRCUIT SUPPLYING GYM EMERGENCY LIGHTS. REMOVE ASSOCIATED BRANCH CIRCUIT CONDUCTORS/CONDUIT COMPLETELY. LABEL ASSOCIATED BRANCH CIRCUIT BREAKERS AS "SPARE".
- ED12 EXISTING TO REMAIN PANELBOARD LLE: DISCONNECT AND REMOVE (8)-20 AMP, 120 VOLT BRANCH CIRCUITS SUPPLYING EXIT LIGHTING, EMERGENCY LIGHTING AND FIRE ALARM SYSTEM. REMOVE ASSOCIATED BRANCH CIRCUIT CONDUCTORS/CONDUIT COMPLETELY. LABEL ASSOCIATED BRANCH CIRCUIT BREAKERS AS "SPARE".
- ED13 DISCONNECT AND REMOVE EXISTING 30 AMP, 6 POLE CONTACTOR FOR EXISTING EMERGENCY LIGHTING WITH ALL LINE AND LOAD SIDE WIRING.

KEY PLAN



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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title



DATE	DESCRIPTION

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Sheet Title

ENLARGED
DEMOLITION
PLANS

Sheet No.

TR
ED301

CONSTRUCTION DOCUMENTS

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- A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.
- B. ALL EXISTING WIRING AND CONDUIT TO EXISTING ITEMS SHOWING AS DEMOLISHED ON THIS DRAWING SHALL BE REMOVED IN THE FIELD AND BACK TO SOURCE PANELBOARD, LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.
- C. WHEN REQUIRED TO DISCONNECT OR MODIFY PART OF ~~AN~~ EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.
- D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS TO BE-USED.
- E. DISCONNECT AND REMOVE THE EXISTING FIRE ALARM SYSTEMS IN ENTIRETY. PHASE THE DEMOLITION OF THE EXISTING SYSTEMS CLOSE TO POSSIBLE TO THE COMMISSIONING OF THE REPLACEMENT SYSTEM INSTALLATION. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.
- F. REMOVE ALL CABLING SUPPORT SYSTEMS FOR CURRENT CABLING, ALL J-HOOKS O-RINGS AND SIMILAR EQUIPMENT SHALL BE REMOVED FROM THE STRUCTURE AND ABOVE ALL CEILINGS.
- G. ALL CABLING FROM DEVICES BEING REMOVED MUST BE REMOVED BACK TO POINT OF ORIGIN, NO CABLES CAN BE ABANDONED IN THE CEILING SPACE PER INTERNATIONAL FIRE CODE SECTION 315.6., UNLESS PHYSICALLY UNABLE TO BE REMOVED DUE TO FIELD CONDITIONS THAT PROHIBIT WORKING IN AN AREA WHERE THE CABLE IS ROUTED. IN THIS CASE, REMOVE CABLE FROM BOTH SIDES OF THE PROHIBITED AREA AND BACK TO POINT OF ORIGIN.

ED10	DISCONNECT AND REMOVE POWER TO EXISTING MECHANICAL EQUIPMENT WITH ASSOCIATED DISCONNECT SWITCH/STARTER/VFD, BRANCH CIRCUIT CONDUIT/WIRING BACK TO POWER SOURCE PANELBOARD.
------	--

A map of the study area showing three regions: AREA 1 (shaded gray), AREA 2 (white), and AREA 3 (white). A north arrow is located in the bottom left corner.

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THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT



	DATE	DESCRIPTION

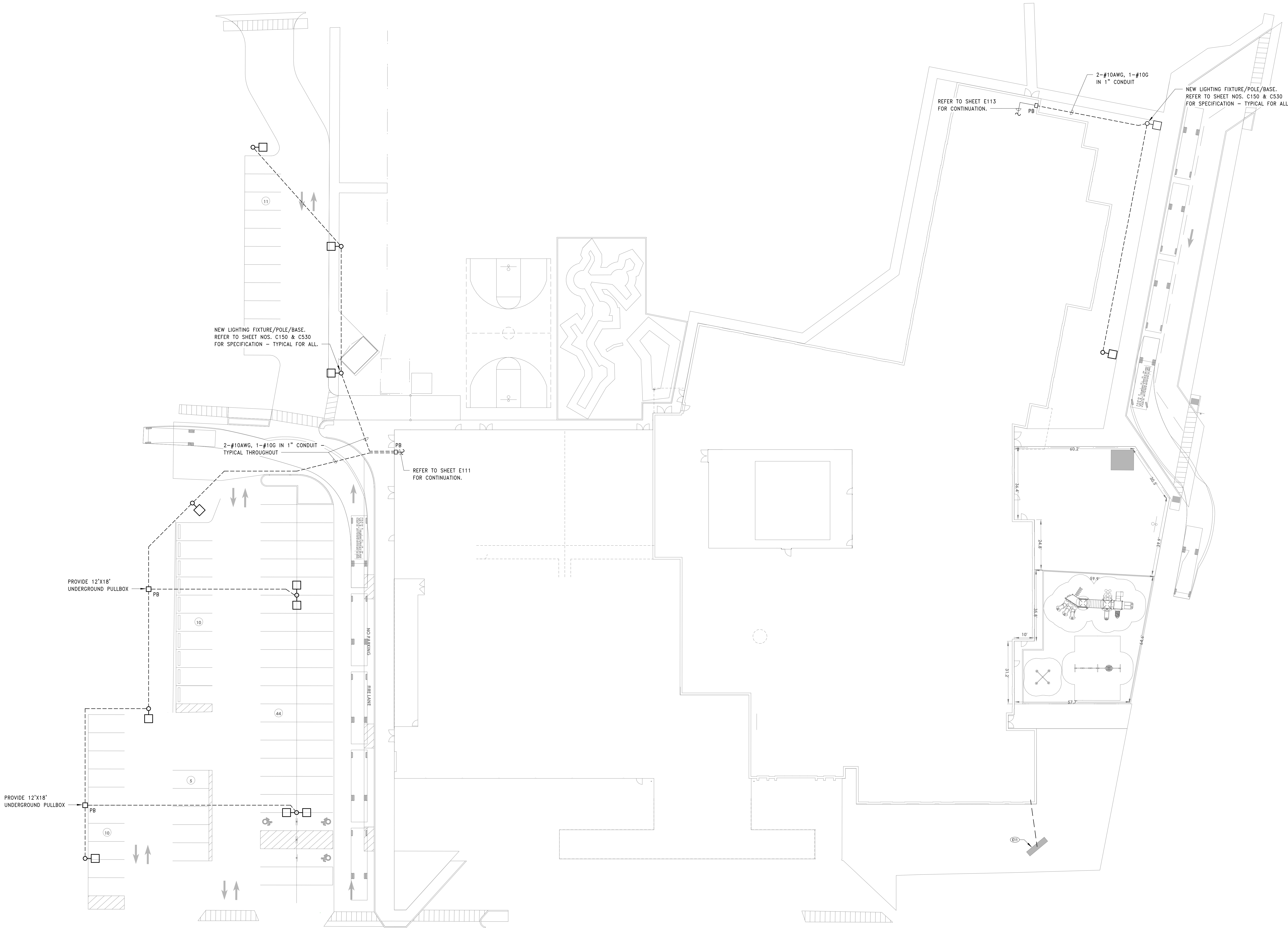
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Sheet Title

ROOF
DEMOLITION
PLANS - AREA
'1'

Sheet No. TR
ED401

Autodesk Docs/215-2402 Binghamton 2024 Capital Project/Theodore Roosevelt ES MEP.rvt



1 SITE PLAN
E001 1" = 20'-0"

SHEET NOTES

- A. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL MATERIALS, CONNECTIONS, INSPECTIONS AND APPROVALS ASSOCIATED WITH NEW INCOMING UTILITY SERVICE WITH UTILITY COMPANY.
- B. ALL ELECTRICAL SITING SHALL BE FULLY COORDINATED WITH SITE CIVIL AND LANDSCAPE DRAWINGS PRIOR TO INSTALLATION.
- C. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING BELOW GRADE UTILITIES PRIOR TO ANY EXCAVATION. BELOW GRADE CONDUITS AND DUCTBANKS EXACT LOCATIONS AND ROUTING TO BE COORDINATED IN FIELD.
- D. EXISTING SITE CONDITIONS SHALL TAKE PRECEDENCE OVER INTENDED DESIGN SHOWN ON THIS DRAWING.
- F. SUBMIT PROPOSED TRENCH LAYOUT OF ALL UNDERGROUND ELECTRICAL RACEWAYS PRIOR TO INSTALLATION OF ENGINEER'S REVIEW AND APPROVAL.

KEY NOTES

- E11 PROVIDE POWER/DATA CONNECTION TO EXTERIOR LED MARQUEE SIGN - REFER TO CIVIL DRAWINGS FOR SPECIFICATION AND LOCATION. POWER: PROVIDE 20 AMP 120/240 VOLT, SINGLE PHASE UNDERGROUND BRANCH CIRCUIT TO PANEL LP-1A2 - STORAGE 005: 3-#10AWG, 1-#10AWG GROUND IN 1" CONDUIT. PROVIDE (1) CAT 6 DATA CABLE IN 1" CONDUIT TO IDF-2 - STORAGE 005. PROVIDE 8 SQUARE X 4" DEEP SCREW COVER PULL BOX FOR INTERIOR TERMINATION OF EACH CONDUIT. TRENCHING, BACKFILL, COMPACTION AND SITE RESTORATION PROVIDED BY OTHERS.

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2024 CAPITAL PROJECT

Project Title



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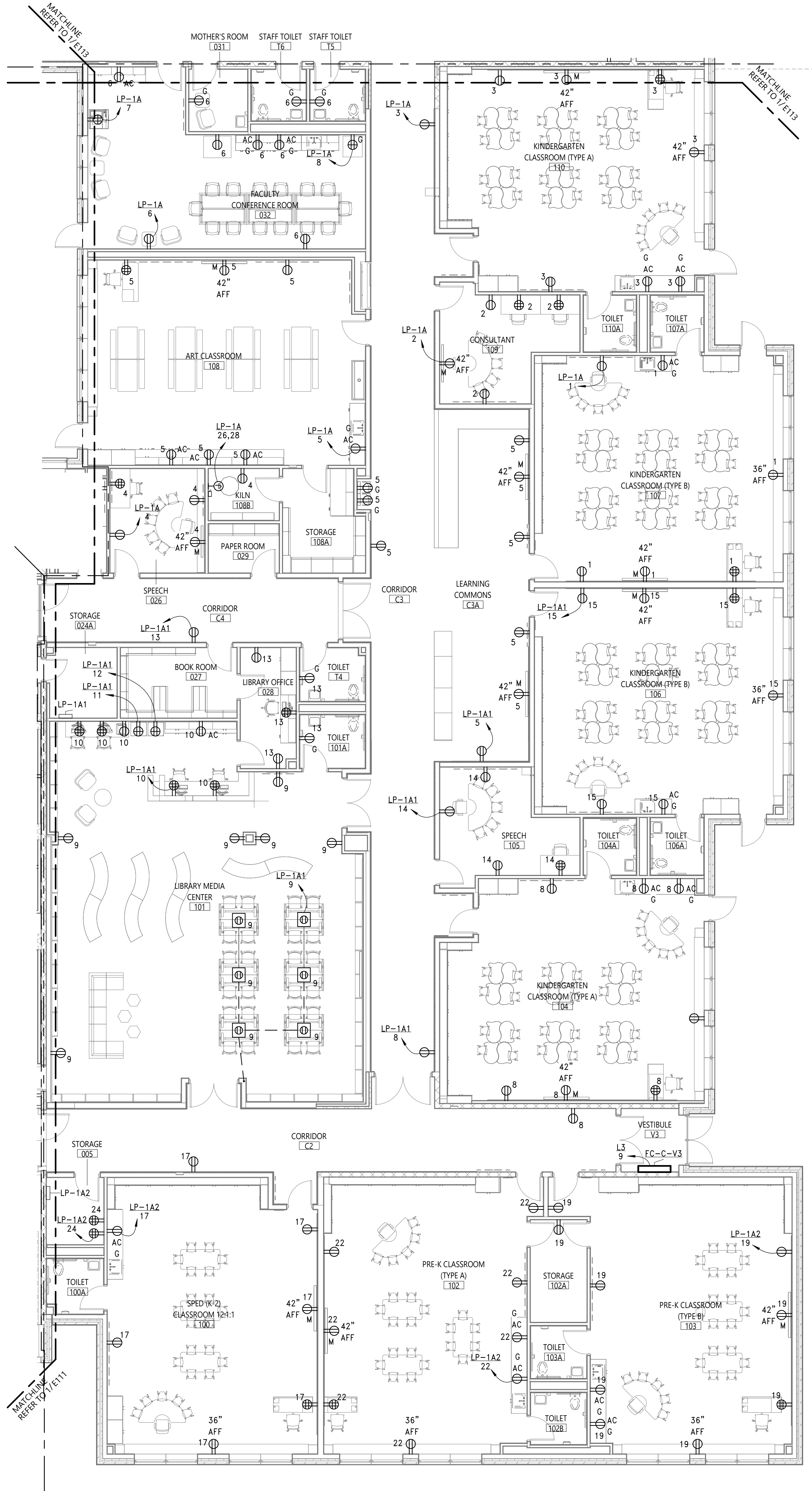
ELECTRICAL
SITE PLAN

Sheet No.

TR
E001

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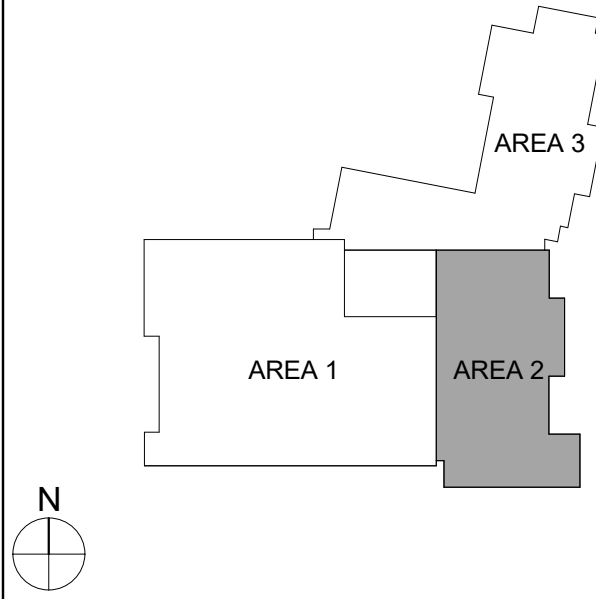


1 FIRST FLOOR POWER PLAN - AREA '2'
E112 1/8" = 1'-0"

- SHEET NOTES**
- A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.
- B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES

KEY PLAN



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2024 CAPITAL PROJECT**

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Sheet Title

**FIRST FLOOR
POWER PLAN -
AREA '2'**

Sheet No.

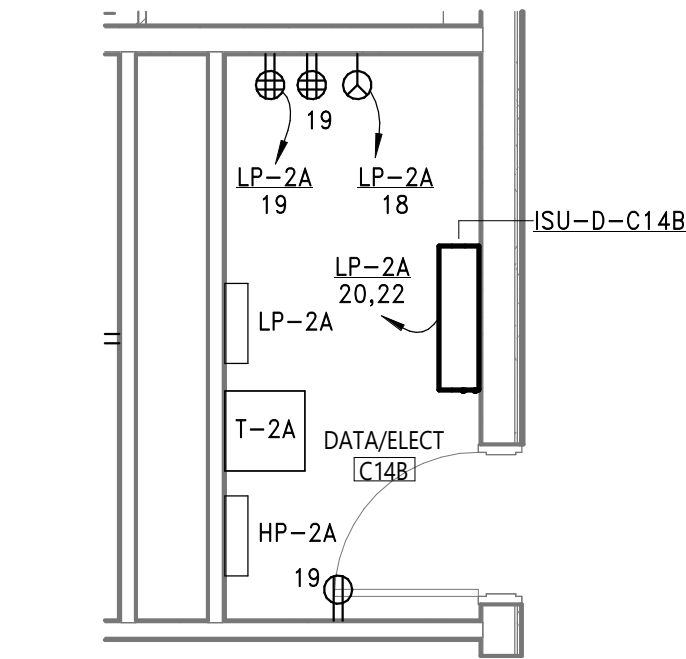
**TR
E112**

CONSTRUCTION DOCUMENTS

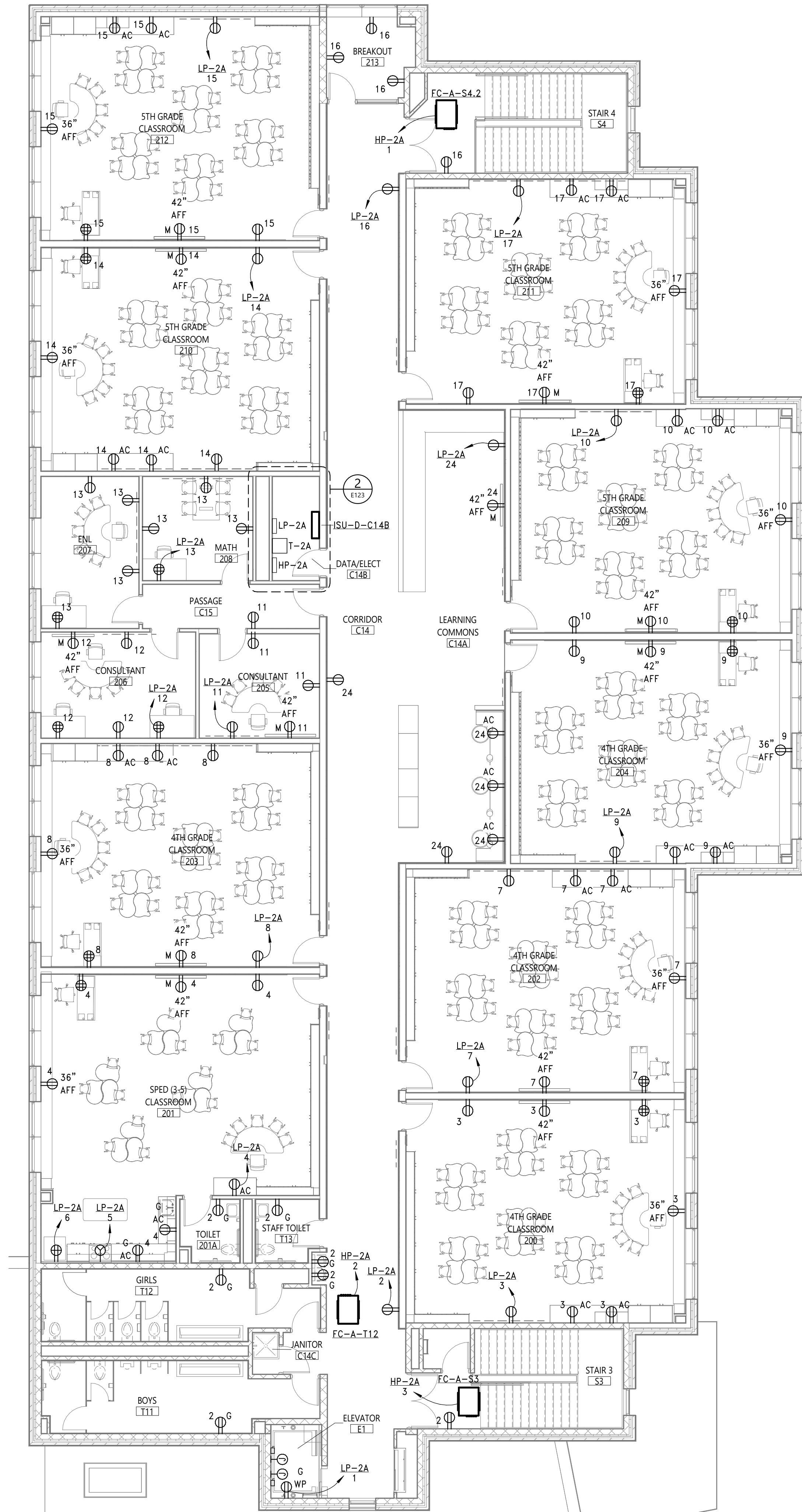


CONSTRUCTION DOCUMENTS

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2 DATA/ELECT C14B
E123 1/4" = 1'-0"

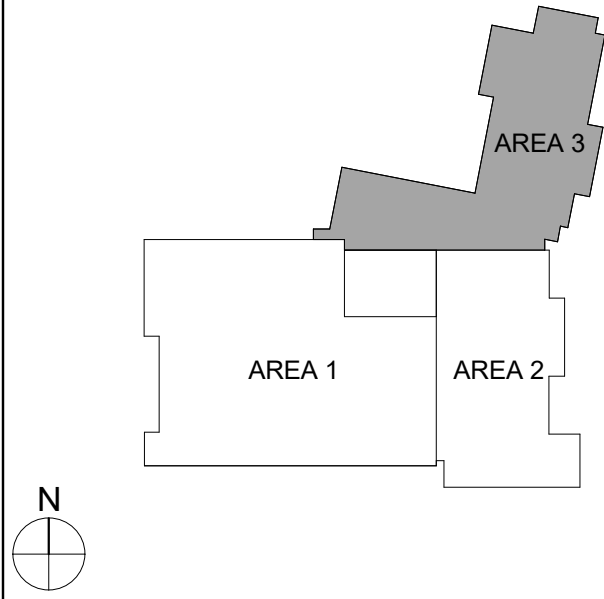


1 SECOND FLOOR POWER PLAN - AREA '3'
E123 1/8" = 1'-0"

- SHEET NOTES**
- A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.
- B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES

KEY PLAN



Consultant

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**BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT**

Project Title



DATE	DESCRIPTION

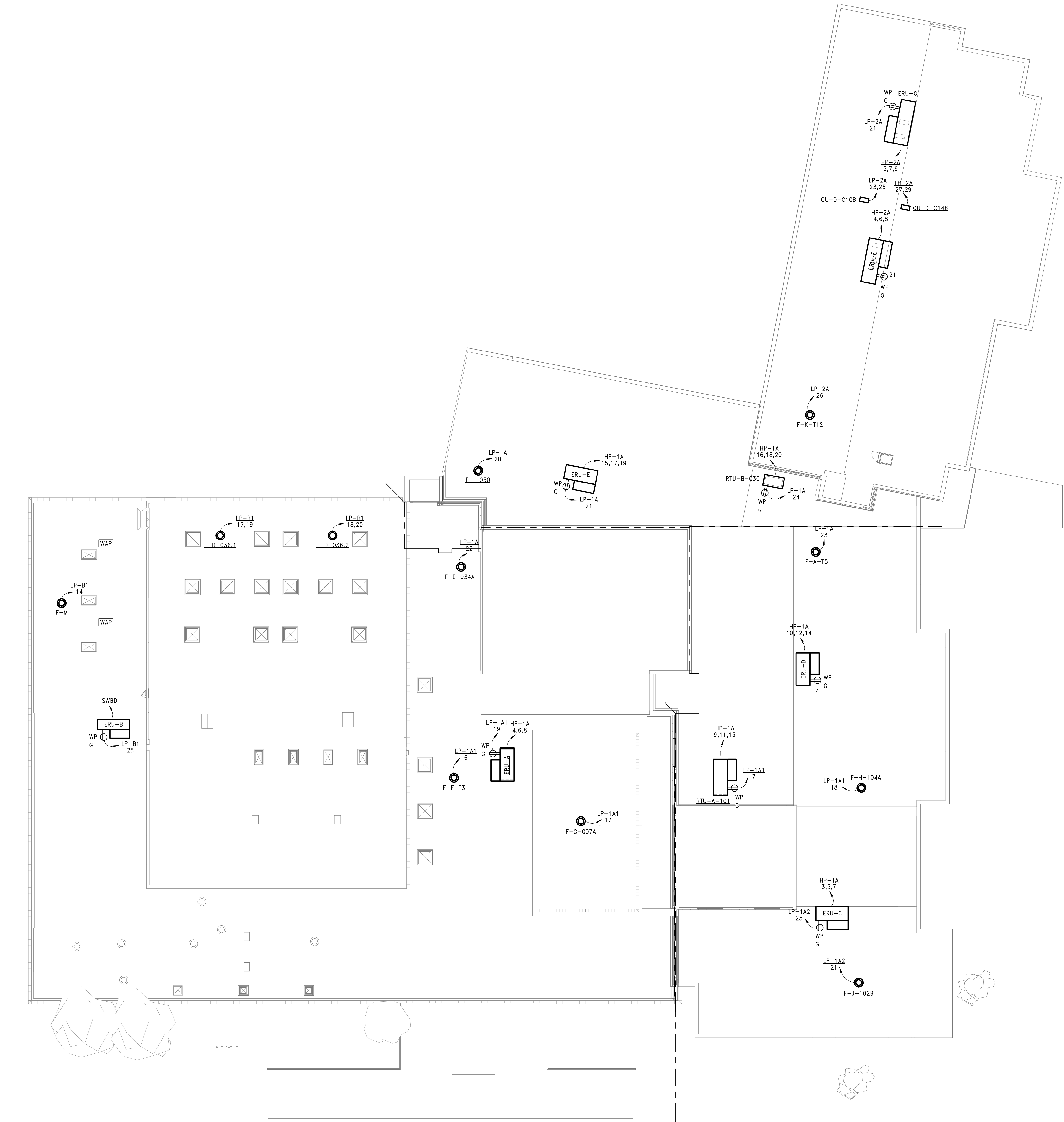
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Checked By: JH
Proj. #: 03-02-00-01-0-010-014
CSArch Proj. #: 215-2402
Issued for Bid: 03/12/2026

Sheet Title
SECOND FLOOR POWER PLAN - AREA '3'

Sheet No.
TR E123

CONSTRUCTION DOCUMENTS

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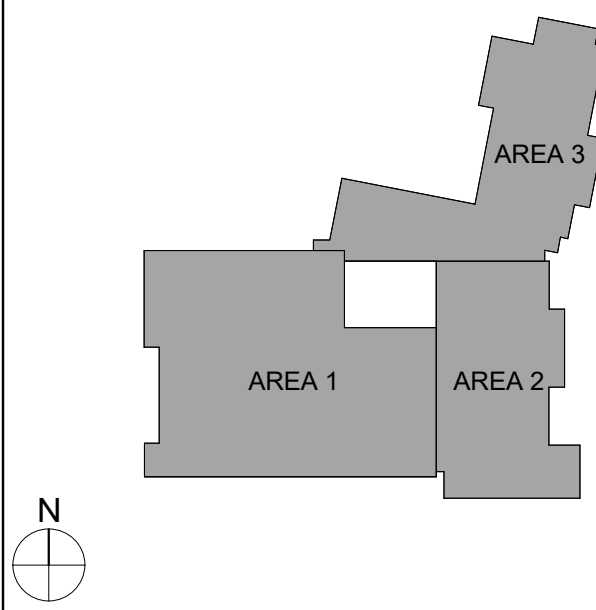
1 ROOF POWER PLAN
E130 1/16" = 1'-0"

SHEET NOTES

- ALL CONDUIT ON ROOF SHALL BE RIGID GALVANIZED STEEL LIQUID TIGHT FITTINGS. FINAL CONNECTION TO ROOF TOP EQUIPMENT SHALL BE MADE WITH WEATHERPROOF FLEXIBLE NON-METALLIC CONDUIT.
- ALL CONDUIT SUPPORTS FIXED TO THE ROOF SHALL BE COORDINATED AND APPROVED BY THE ROOFING CONTRACTOR PRIOR TO INSTALLATION. REFER TO LAYOUT AND DETAILS FOR ALL CURB/PORTALS REQUIRED FOR ELECTRICAL ROOF PENETRATIONS SHOWN ON THE ARCHITECTURAL ROOF PLANS.
- REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATIONS AND REQUIREMENTS. ALL ELECTRICAL WORK RELATED TO MECHANICAL EQUIPMENT SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR.

KEY NOTES

KEY PLAN



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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title



DATE	DESCRIPTION

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Proj. #: 03-02-00-01-0-010-014
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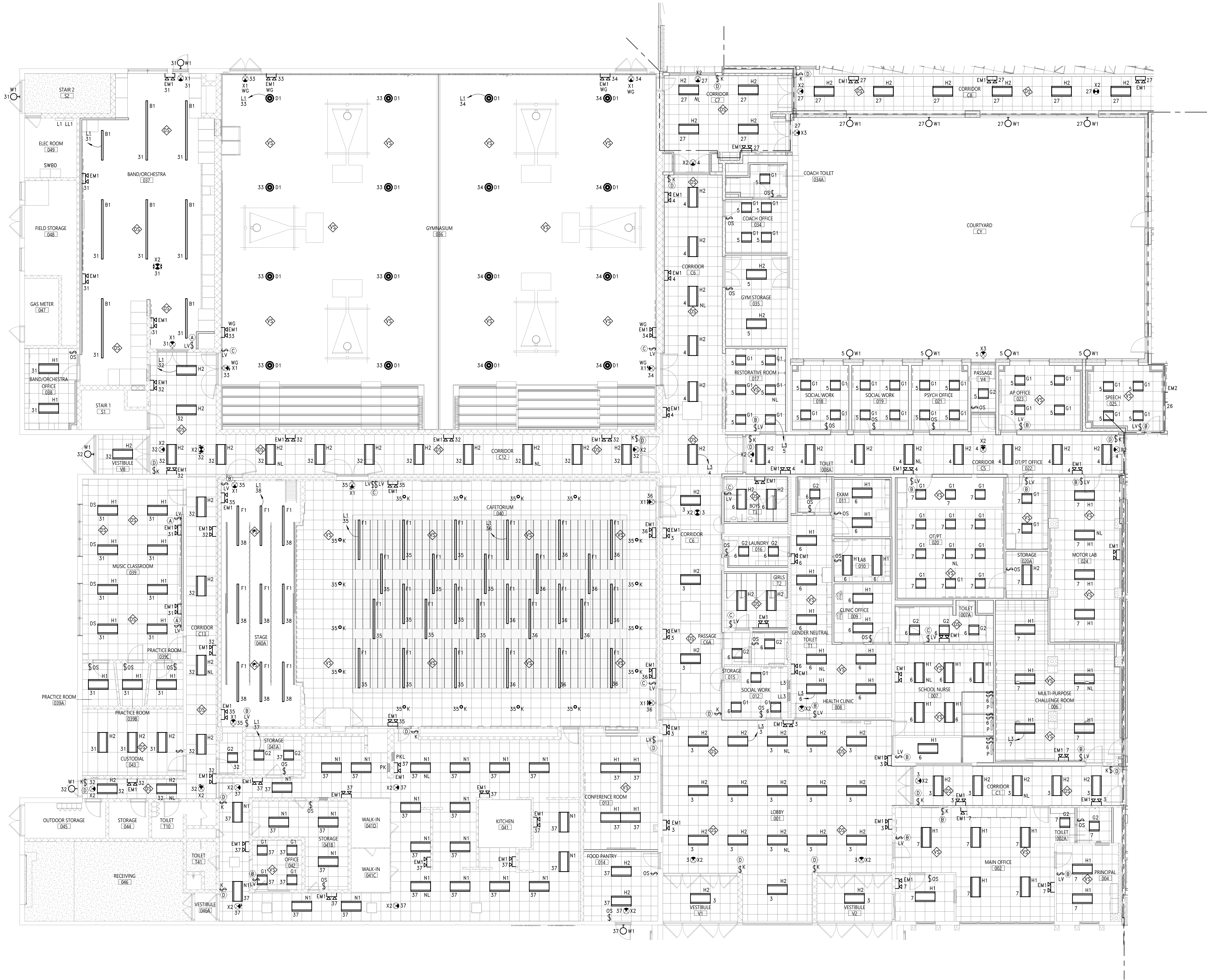
ROOF POWER PLAN

Sheet No.

TR
E130

CONSTRUCTION DOCUMENTS

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1 FIRST FLOOR LIGHTING PLAN - AREA '1'
E211 1/8" = 1'-0"

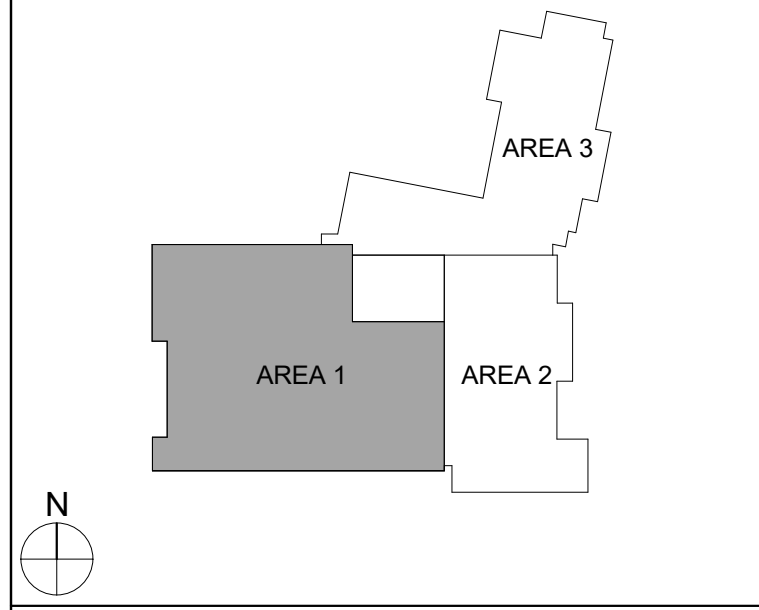
SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES

KEY PLAN



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Project Title

BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

STATE OF NEW YORK
JAMES R. BARRETT
073467
LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

DATE	DESCRIPTION

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Checked By: NH
Proj. #: 03-02-00-01-0-010-014
CSArch Proj. #: 215-2402
Issued for Bid: 03/12/2026

Sheet Title

FIRST FLOOR
LIGHTING
PLAN - AREA
'1'

Sheet No.

TR
E211

CONSTRUCTION DOCUMENTS

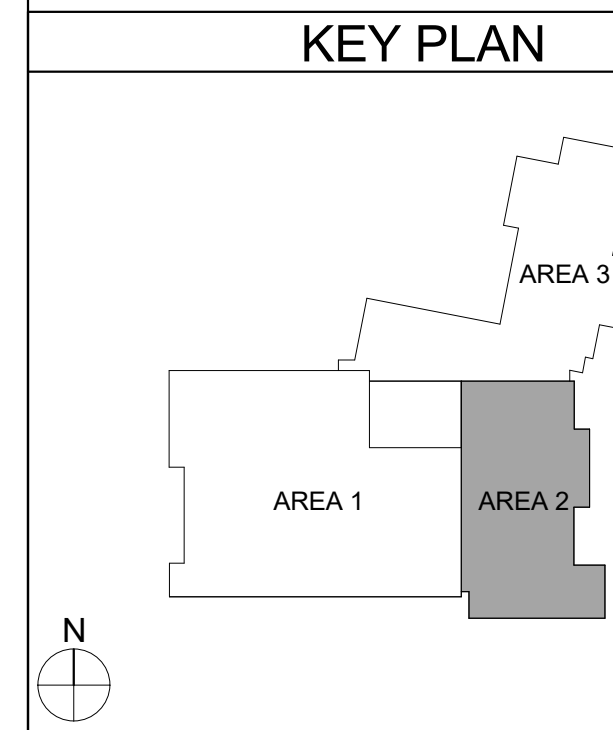


1 FIRST FLOOR LIGHTING PLAN - AREA '2'

SHEET NOTES

- A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.
- B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES



KEY PLAN

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2024 CAPITAL PROJECT

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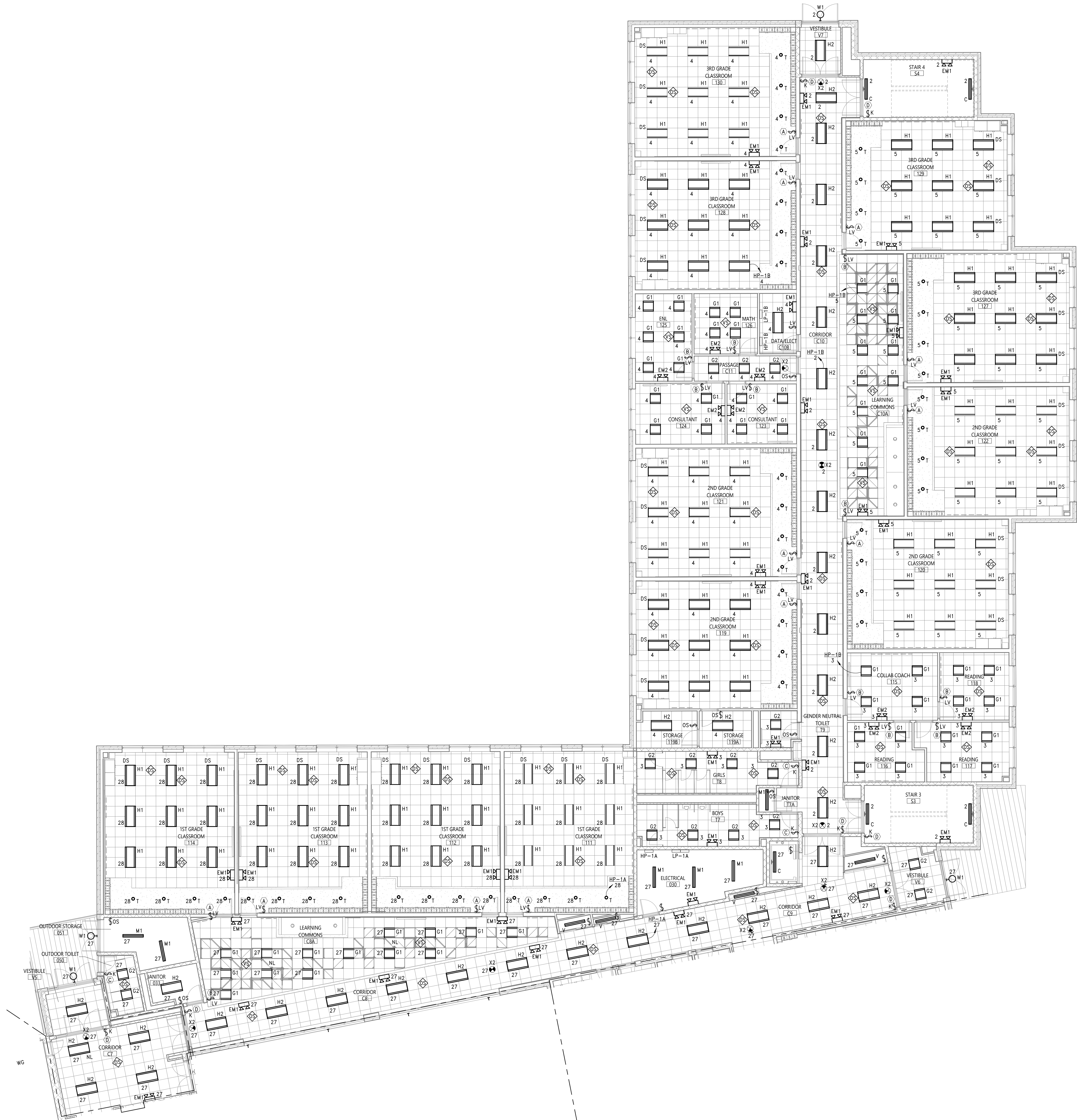
Sheet Title

FIRST FLOOR
LIGHTING
PLAN - AREA
'2'

Sheet No. TR
E212

CONSTRUCTION DOCUMENT

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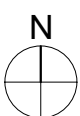
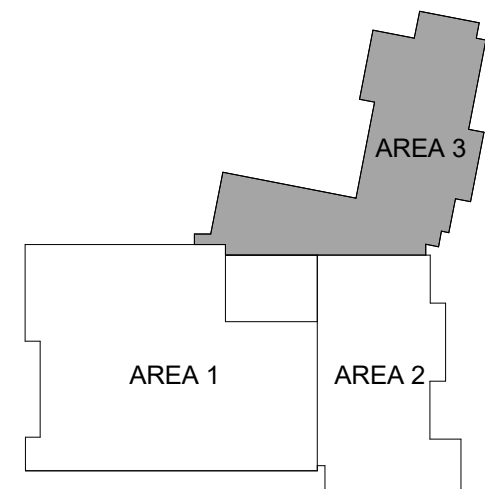
1 FIRST FLOOR LIGHTING PLAN - AREA '3'
E213 1/8" = 1'-0"

SHEET NOTES

- A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.
- B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES

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Project Title



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CSArch Proj. #: 215-2402
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Sheet Title

FIRST FLOOR
LIGHTING
PLAN - AREA
'3'

Sheet No.

TR
E213

CONSTRUCTION DOCUMENTS

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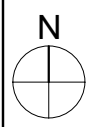
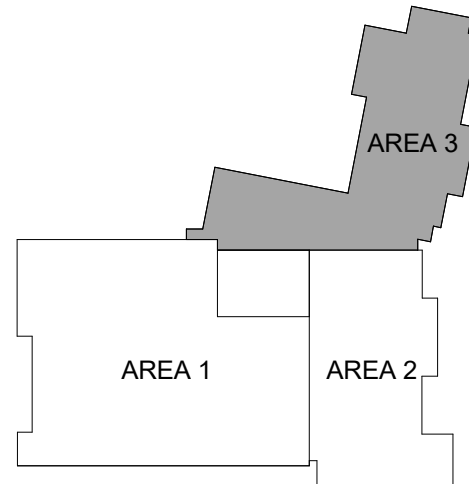
1 SECOND FLOOR LIGHTING PLAN - AREA '3'
E221 1/8" = 1'-0"



- SHEET NOTES**
- A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.
- B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES

KEY PLAN



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**BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT**

Project Title



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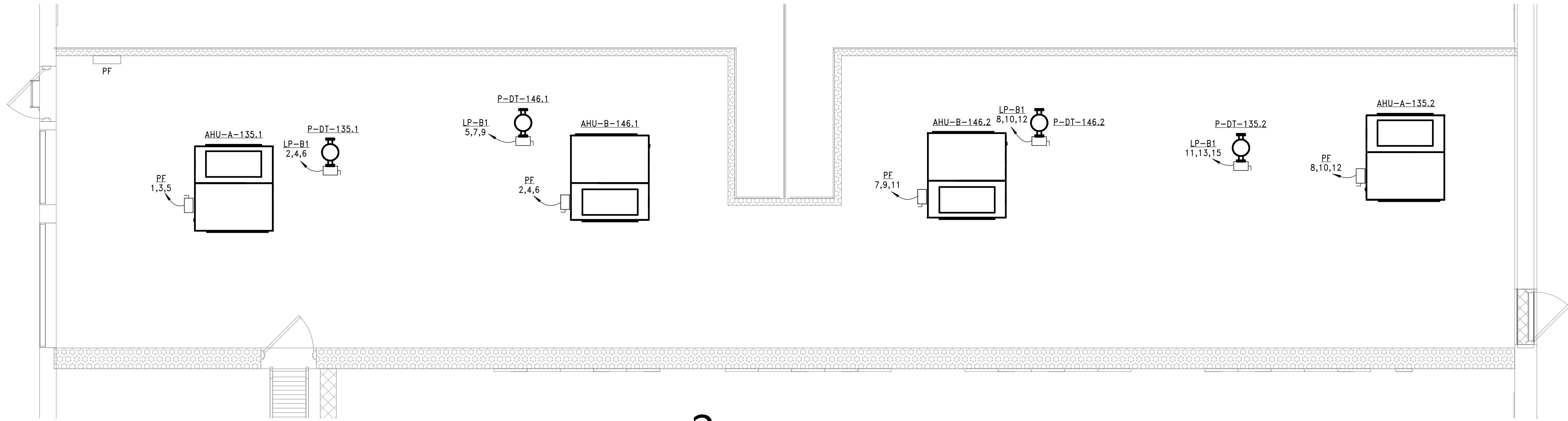
Sheet Title
SECOND FLOOR LIGHTING PLAN - AREA '3'

Sheet No.
TR E221

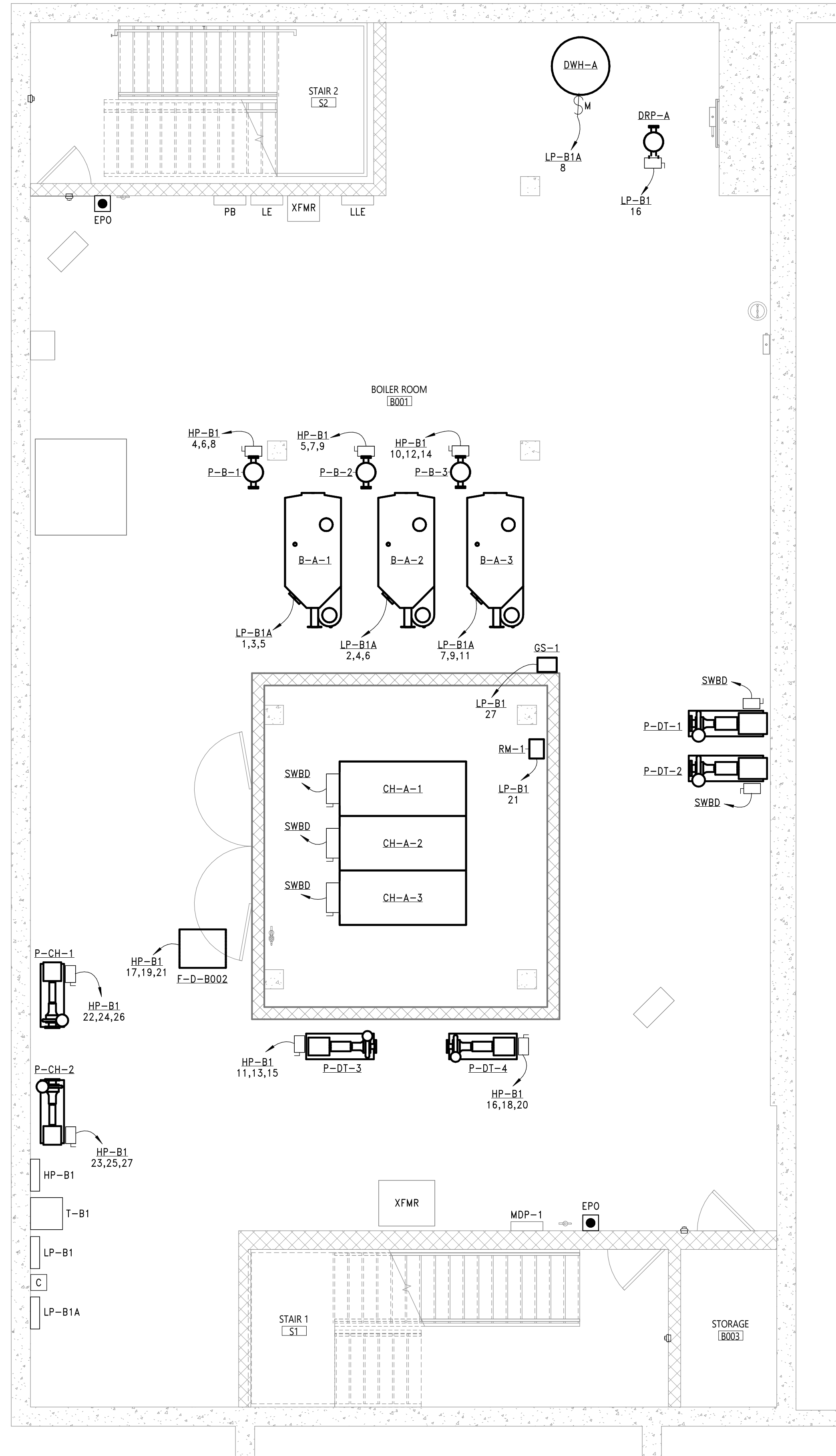
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2 MEZZANINE PLAN
E301 1/4" = 1'-0"



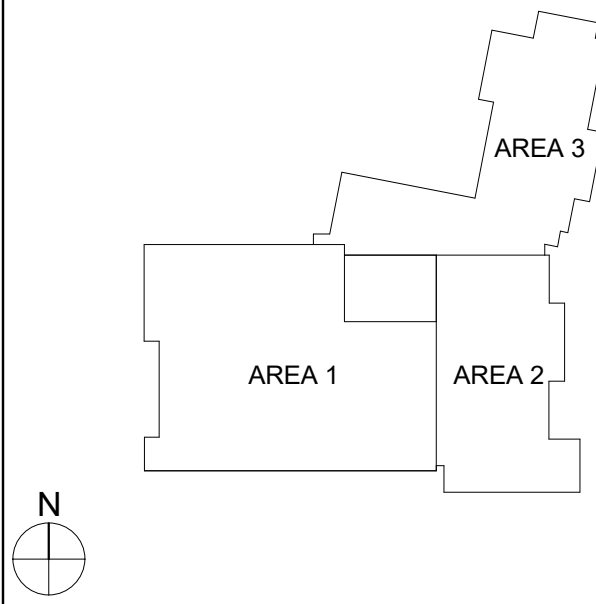
1 BOILER ROOM PLAN
E301 1/4" = 1'-0"

SHEET NOTES

- A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.
- B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES

KEY PLAN



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THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title



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Sheet Title

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POWER PLANS

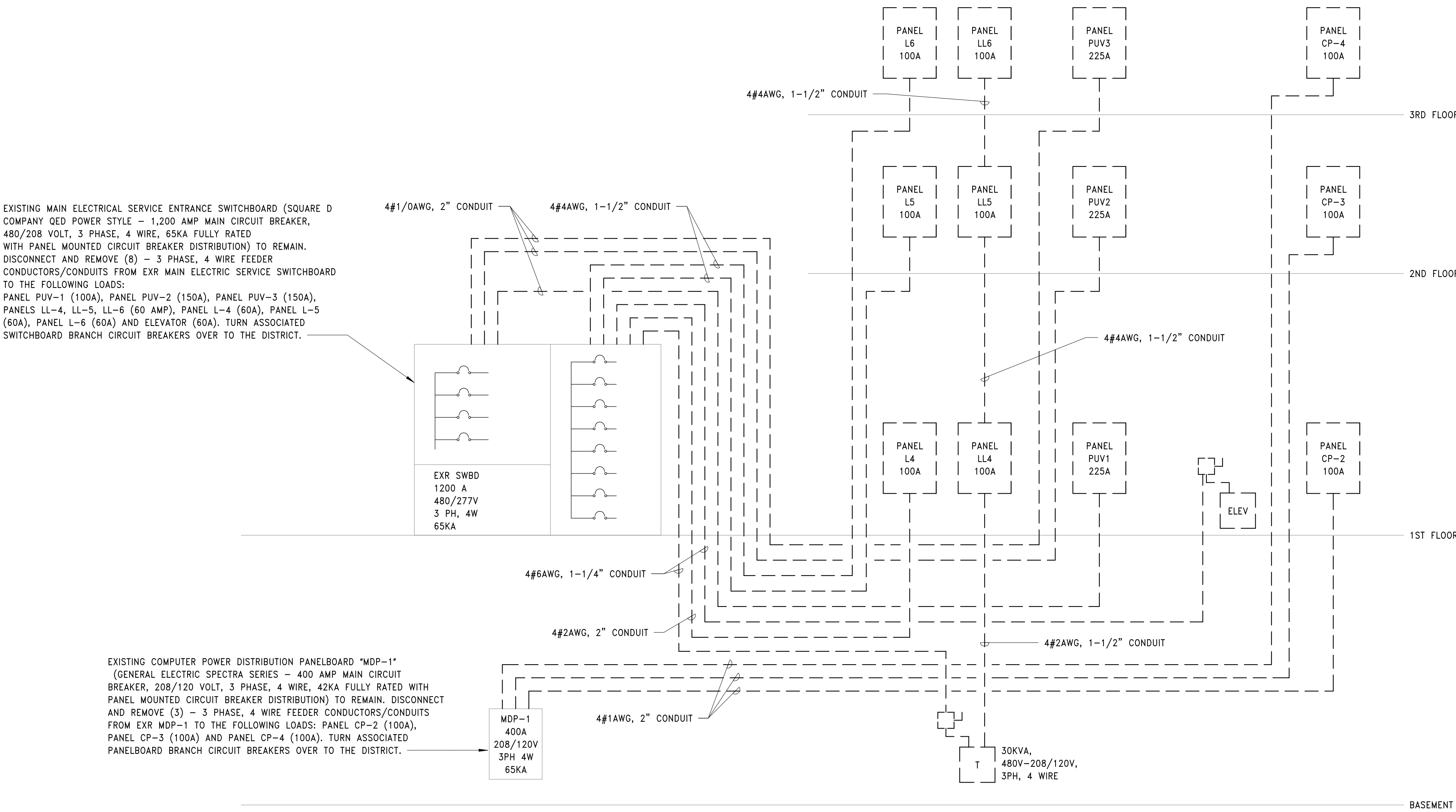
Sheet No.

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E301

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2 DEMOLITION ELECTRICAL RISER DIAGRAM

E501_{NTS}

WIRING SCHEDULE NOTES:

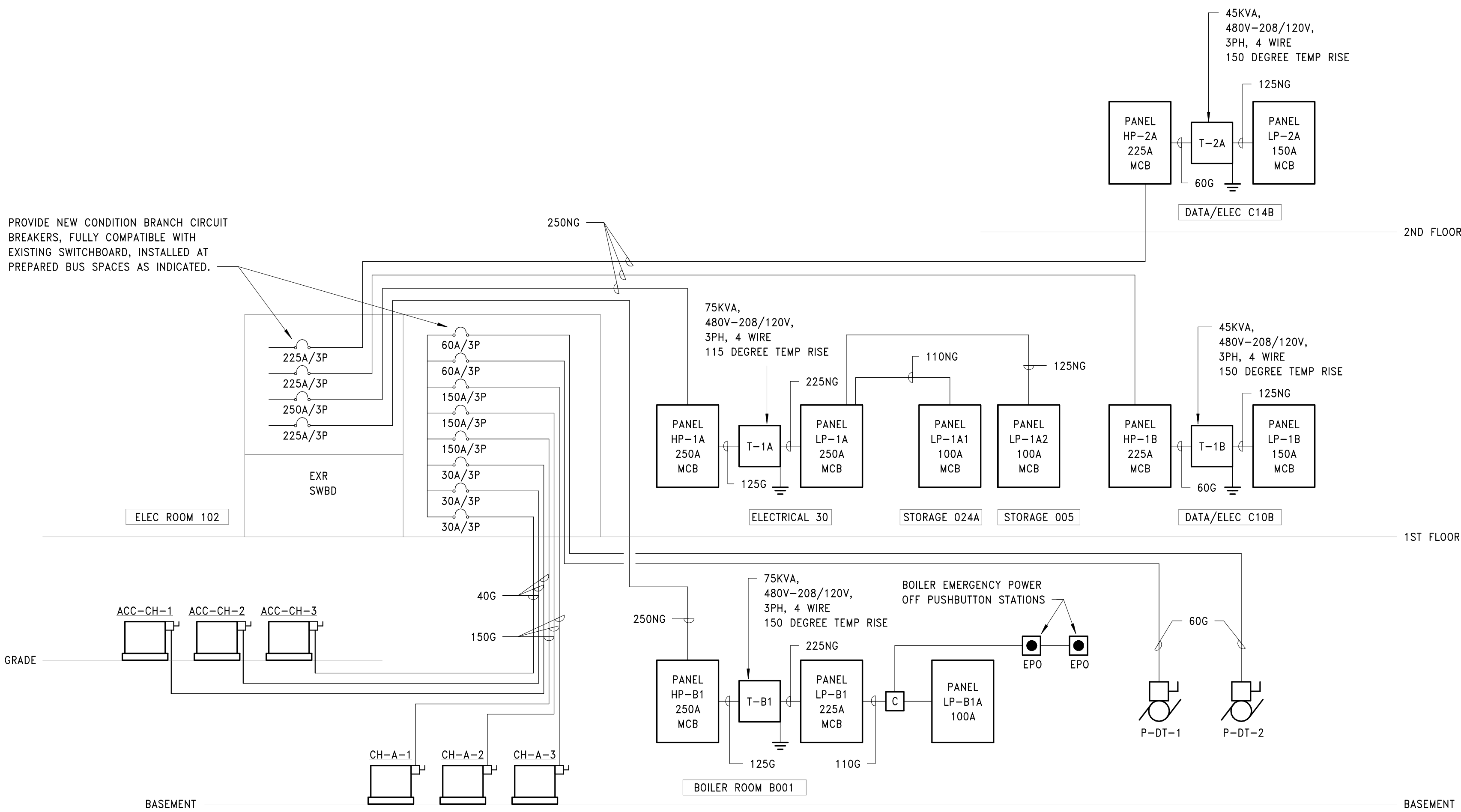
- CURRENT CARRYING CONDUCTOR AMPACITY BASED ON NEC TABLE 310.15(B)(16), COPPER WITH INSULATION TEMPERATURE RATING OF 75 DEGREES C.
- RACEWAY FILL SCHEDULE IS BASED ON COPPER CONDUCTORS WITH THHN, THWN OR THWN-2 INSULATION.
- MAXIMUM FILL FOR RACEWAY IS BASED ON CHAPTER 9 TABLE 1 AND TABLE C.1 FOR ELECTRICAL METALIC TUBING (EMT). ADJUST FILL AND RACEWAY SIZE FOR ANOTHER RACEWAY TYPE REQUIRED FOR THE APPLICATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- IN ACCORDANCE WITH CHAPTER 9 NOTES TO TABLES, NOTE 3 THE GROUND CONDUCTOR IS INCLUDED IN THE FILL CALCULATION.

3 ELECTRICAL WIRING SIZING

E501_{NTS}

CIRCUIT RATING	CONDUIT SIZE (INCHES)			CONDUCTOR SIZE	
	G	NG	NGI	PHASE/NEUTRAL	GND
20	3/4	3/4	3/4	12	12
30	3/4	3/4	3/4	10	10
40	3/4	3/4	3/4	8	10
50	3/4	3/4	3/4	8	10
60	3/4	1	1	6	10
70	1	1-1/4	1-1/4	4	8
80	1	1-1/4	1-1/4	4	8
90	1-1/4	1-1/4	1-1/4	3	8
100	1-1/4	1-1/4	1-1/4	3	8
110	1-1/4	1-1/4	1-1/2	2	6
125	1-1/4	1-1/2	2	1	6
150	1-1/2	2	2	1/0	6
175	2	2	2	2/0	6
200	2	2-1/2	2-1/2	3/0	6
225	2	2-1/2	2-1/2	4/0	4
250	2-1/2	2-1/2	2-1/2	250	4
300	2-1/2	2-1/2	3	350	4
350	3	3	3-1/2	500	3
400	(2)2	(2)2-1/2	(2)2-1/2	3/0	3
420	3-1/2	3-1/2	4	600	2
450	(2)2	(2)2-1/2	(2)2-1/2	4/0	2
500	(2)2-1/2	(2)2-1/2	(2)2-1/2	250	2
600	(2)2-1/2	(2)2-1/2	(2)3	350	1
700	(2)3	(2)3	(2)3-1/2	500	1/0
800	(3)2-1/2	(3)2-1/2	(3)3	300	1/0
840	(2)3-1/2	(2)3-1/2	(2)4	600	2/0
1000	(3)2-1/2	(3)3	(3)3	400	2/0
1200	(4)2-1/2	(4)2-1/2	(4)3	350	3/0
1600	(5)2-1/2	(5)3	(5)3	400	4/0
1680	(4)3-1/2	(4)3-1/2	(4)4	600	4/0
2000	(6)2-1/2	(6)3	(6)3	400	250
2500	(7)3	(7)3	(7)3-1/2	500	350
3000	(8)3	(8)3	(8)3-1/2	500	400
3500	(10)3	(10)3	(10)3-1/2	500	500
4000	(11)3	(11)3-1/2	(11)3-1/2	500	500

SUBSCRIPT KEY	
SUBSCRIPT	CONDUCTORS PER CONDUIT
G	3 PHASE CONDUCTORS, 1 EQUIPMENT GROUNDING CONDUCTOR
NG	3 PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, 1 EQUIPMENT GROUNDING CONDUCTOR
NGI	3 PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, 1 EQUIPMENT GROUNDING CONDUCTOR, 1 ISOLATED GROUNDING CONDUCTOR

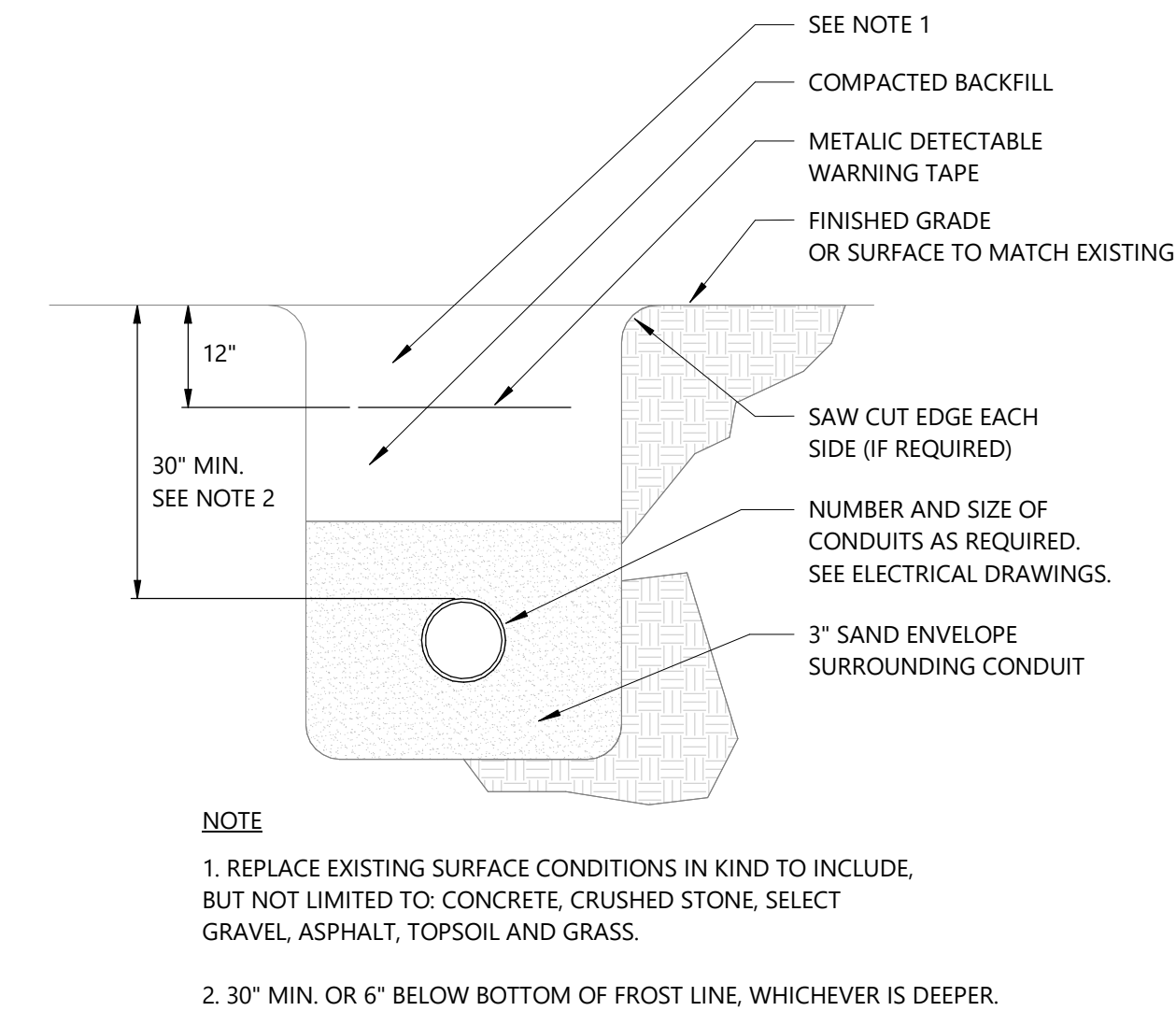


1 ELECTRICAL RISER DIAGRAM

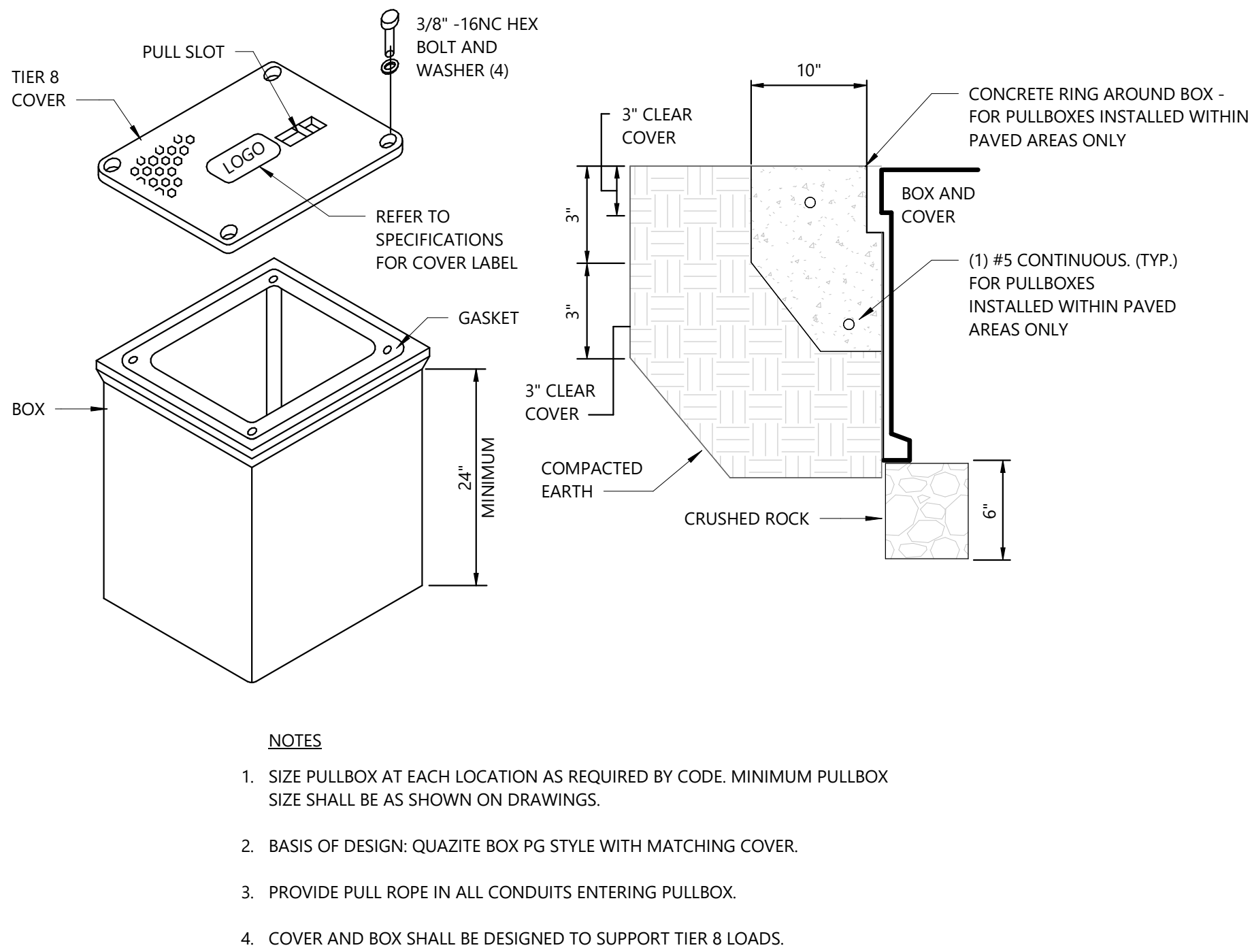
E501_{NTS}

LIGHTING FIXTURE SCHEDULE						
TAG	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	WATTAGE	VOLTAGE	NOTES
B1	4" LINEAR UP/DOWN LIGHT, PENDANT MOUNTED	MARK LIGHTING	LSL 80CRI40K 800LMF DBW 80CRI 140K 1600LMF BW SCT MINI FLLOC MVOLT BLKT F2 72ARCYD BLKCYBCRD	10W/LF	277	REFER TO PLANS FOR FIXTURE LENGTHS
C	4" VANDAL RESISTANT WALL MOUNTED LED FUTURE W/INTEGRAL EMERGENCY BATTERY AND ULTRASONIC MOTION SENSOR	LUMINAIRE LED	TSL9 46IN 2DRV 50W40K 277 OPWHT EMB310 ONOFF50	50	277	INTEGRAL SENSOR: 50% OUTPUT AFTER 30 MINUTE TIME OUT
D1	PENDANT MOUNTED, LED HIGH BAY FIXTURE W/INDIRECT/DIRECT LIGHT DISTRIBUTION	HOLOPHANE LIGHTING	HOL01 18000LM WD 40K80CRI UPL	108	277	PROVIDE W/WIRE GUARD AND SAFETY CHAIN
EM1	COMMERCIAL LED EMERGENCY BATTERY LIGHTING UNIT	LITHONIA	ELM6LUVOLTLP	6	277	
EM2	COMMERCIAL LED EMERGENCY BATTERY LIGHTING UNIT	LITHONIA	ELM4LUVOLTLP	6	277	
F1	8FT LONG X 4 INCH WIDE PENDANT MOUNTED DIRECT DISTRIBUTION LED LINEAR	LITHONIA	S4PDL5LMSLB80CRI40K1000M5CTMIN1FL277BLKTZF2/36ABCRD	64	277	PENDANT MOUNT FIXTURES TO MATCH HEIGHT OF CEILING BLADES. REFER TO ARCHITECTURAL SHEETS FOR PENDANT MOUNTING TO UNISTRUT CHANNEL
G1	2'x2' LED TROFFER, HIGH OUTPUT, RECESSED	LITHONIA	ENVY 2X2 4800LM			
G2	2'x2' LED TROFFER, LOW OUTPUT, RECESSED	MARK LIGHTING	WHSPR 2X2 3000LM			
H1	2'x4' LED TROFFER, HIGH OUTPUT, RECESSED	LITHONIA	ENVY 2X4 4800LM			
H2	2'x4' LED TROFFER, LOW OUTPUT, RECESSED	MARK LIGHTING	WHSPR 2X4 3000LM			
K	6 INCH ROUND LED DOWNLIGHT W/30 DEGREE BEAM ANGLE AND FLANGELESS, SEMI-SPECULAR CLEAR REFLECTOR	GOTHAM DOWNLIGHTING	IV06 D 60LM40K80CRI 300MIN1MVOLT ZT ICATPARS CLRARLS5F	34	277	
M1	4' STRIP LIGHT, PENDANT MOUNTED	LITHONIA	CLX L48 3000LM			
N1	2'x4' RECESSED FOOD SERVICE TROFFER	KENALL	CSE02467L40K80M11205F4HSYM	72	277	
P	LED 36 INCH UP/DOWN DISTRIBUTION WALL BRACKET	KENALL	NPH36MW34/34L40K80M1DDV	71	277	SEPARATE SWITCH FOR UP AND DOWN LIGHT
T	6 INCH ROUND LED DOWNLIGHT W/45 DEGREE BEAM ANGLE AND REGRESSED LENS	GOTHAM DOWNLIGHTING	EY6RCR 42/25ARFLLSSWWD 277E21	34	277	
V	4' LONG ARCHITECTURAL COVE LED STRIP LIGHTING FIXTURE ASSEMBLY W/DIFFUSE LENS ACCESSORY	COOPER LIGHTING	CS-SL-95CT-277-ID-UNV-W-SA-STD-4F	21	277	SETTINGS: 4,000K CCT, 7 LUMENS/FT PROVIDE W/CS-10V-BOX & CS-DLENS-4F
X1	EXTERIOR LED WALL PACK, SURFACE MOUNTED W/EMERGENCY BATTERY BACKUP	LITHONIA	ARCI P2 40K E4WH			
X2	EXIT SIGN, WALL MOUNTED	LITHONIA	LQC R EL N			
X3	EXIT SIGN, CEILING MOUNTED	LITHONIA	LQC R EL N			
X3	EXTERIOR EXIT SIGN, WALL MOUNTED	LITHONIA	WLTE W 1 R EL			

EQUIPMENT CONNECTION SCHEDULE												
TAG	VOLTAGE	PHASE	FLA	MCA	MOCP	POWER SOURCE	CIRCUIT BREAKER	WIRE SIZE	DISCONNECT SWITCH	DISCONNECT SIZE	FA SHUTDOWN	FA SUPPLY DUCT DETECTOR
ACC-CH-A1	460	3		18	30	SWBD	3		FACTORY PROVIDED			
ACC-CH-A2	460	3		18	30	SWBD	2		FACTORY PROVIDED			
ACC-CH-A3	460	3		18	30	SWBD	1		FACTORY PROVIDED			
AHU-A-135.1	460	3		12	15	PF	1,3,5		FACTORY PROVIDED			
AHU-A-135.2	460	3		12	15	PF	8,10,12		FACTORY PROVIDED			
AHU-B-146.1	460	3		8	15	PF	2,4,6		FACTORY PROVIDED			
AHU-B-146.2	460	3		8	15	PF	7,9,11		FACTORY PROVIDED			
B-A-1	208	3	4,5	5,6	15	LP-B1A	1,3,5		FACTORY PROVIDED			
B-A-2	208	3	4,5	5,6	15	LP-B1A	2,4,6		FACTORY PROVIDED			
B-A-3	208	3	4,5	5,6	15	LP-B1A	7,9,11		FACTORY PROVIDED			
BCU-037	277	1		6,36	15	HP-B1	2		FACTORY PROVIDED			
CH-A-1	460	3		104.2	149.6	SWBD	5		FIELD	200A		
CH-A-2	460	3		104.2	149.6	SWBD	6		FIELD	200A		
CH-A-3	460	3		104.2	149.6	SWBD	7		FIELD	200A		
CP-A	115	1		6	15	LP-1B	16		FIELD	30A		
CU-D-C10B	208	1		14.3	25	LP-2A	23,25		FIELD	30A		
CU-D-C14B	208	1		14.3	25	LP-2A	27,29		FIELD	30A		
DRP-A	120	1	1,1			LP-B1	16		FIELD	30A		
DWA-A	120	1				LP-B1A	8		FIELD	30A		
ERU-A	460	3		31	35	HP-1A	4,6,8		FACTORY PROVIDED			
ERU-B	460	3		24	30	SWBD	4		FACTORY PROVIDED			
ERU-C	460	3		32	35	HP-1A	3,5,7		FACTORY PROVIDED			
ERU-D	460	3		32	35	HP-1A	10,12,14		FACTORY PROVIDED			
ERU-E	460	3		32	35	HP-1A	15,17,19		FACTORY PROVIDED			
ERU-F	460	3		58	70	HP-2A	4,6,8		FACTORY PROVIDED			
ERU-G	460	3		53	60	HP-2A	5,7,9		FACTORY PROVIDED			
F-A-TS	115	1		3,5	15	LP-1A	23		FIELD	30A		
F-B-036.1	208	1		15,6	25	LP-B1			FIELD	30A		
F-B-036.2	208	1		15,6	25	LP-B1			FIELD	30A		
F-C-004A	115	1		4,1	15	LP-1A2	1		FIELD	30A		
F-D-8002	460	3		3,8	15	HP-B1	17,19,21		FIELD	30A		
F-E-034A	115	1		4,8	15	LP-1A	22		FIELD	30A		
F-F-T3	115	1		4,8	15	LP-1A1	6		FIELD	30A		
F-G-007A	115	1		4,8	15	LP-1A1	17		FIELD	30A		
F-H-104A	115	1		1,9	15	LP-1A1	18		FIELD	30A		
F-I-050	115	1		4,8	15	LP-1A	20		FIELD	30A		
F-J-102B	115	1		4,8	15	LP-1A2	21		FIELD	30A		
F-K-T12	115	1		8,2	15	LP-2A	26		FIELD	30A		
F-L-016	120	1			15	LP-1A2	8		FIELD	30A		
F-M	115	1		8,2	15	LP-B1	14		FIELD	30A		
FC-A-S3	277				15	HP-2A	3		FIELD	30A		
FC-A-S3.1	277				15	HP-1A	30		FIELD	30A		
FC-A-S4.1	277				15	HP-1B	6		FIELD	30A		
FC-A-S4.2	277				15	HP-2A	1		FIELD	30A		
FC-A-T3	277				15	L3	2		FIELD	30A		
FC-A-T8	277				15	HP-1A	31		FIELD	30A		
FC-A-T12	277				15	HP-2A	2		FIELD	30A		
FC-A-V5	277				15	HP-1A	2		FIELD	30A		
FC-B-V1	277				15	L3	1		FIELD	30A		
FC-B-V2	277				15	L3	1		FIELD	30A		
FC-B-V8	277				15	HP-B1			FIELD	30A		
FC-C-V3	277				15	L3	9		FIELD	30A		
FC-C-V6	277				15	HP-1A	1		FIELD	30A		
FC-D-V7	277				15	HP-1B	1		FIELD	30A		
FC-E-011	277				15	L3	2		FIELD	30A		
FC-F-001.1	277				15	L3	1		FIELD	30A		
FC-F-001.2	277				15	L3	1		FIELD	30A		
FC-G-009	277				15	L3	2		FIELD	30A		
FC-G-043	277				15	HP-B1	3		FIELD	30A		
FC-H-007	277				15	L3	2		FIELD	30A		
FC-H-008	277				15	L3	2		FIELD	30A		
FC-H-013	277				15	L3	1		FIELD	30A		
FC-J-041.1	208			0.63	1	LP-B1	1,3		FACTORY PROVIDED			
FC-J-041.2	208			0.63	1	LP-B1	1,3		FACTORY PROVIDED			
FC-J-041.3	208			0.63	1	LP-B1	1,3		FACTORY PROVIDED			
FC-J-041.4	208			0.63	1	LP-B1	1,3		FACTORY PROVIDED			
FC-J-041.5	208			0.63	1	LP-B1	1,3		FACTORY PROVIDED			
FC-J-041.7	208			0.63	1	LP-B1	1,3		FACTORY PROVIDED			
GS-1	120					LP-B1	27					
ISU-D-C10B	208	1		0.69	15	LP-1B	12,14		FIELD	30A		
ISU-D-C14B	208	1		0.69	15	LP-2A	20,22		FIELD	30A		
P-B-1	460	3	120			HP-B1	4,6,8		FIELD	30A		
P-B-2	460	3	120			HP-B1	5,7,9		FIELD	30A		
P-B-3	460	3	120			HP-B1	10,12,14		FIELD	30A		
P-CH-1	480	3				HP-B1	22,24,26		FIELD	30A		
P-CH-2	480	3				HP-B1	23,25,27		FIELD	30A		
P-DT-1	480	3				SWBD	9		FIELD	30A		
P-DT-2	480	3				SWBD	10		FIELD	30A		
P-DT-3	480	3				HP-B1	11,13,15		FIELD	30A		
P-DT-4	480	3				HP-B1	16,18,20		FIELD	30A		
P-DT-135.1	208	1	120			LP-B1	2,4,6		FIELD	30A		
P-DT-135.2	208	1	120			LP-B1	11,13,15		FIELD	30A		
P-DT-146.1	208	1	120			LP-B1	5,7,9		FIELD	30A		
P-DT-146.2	208	1	120			LP-B1	8,10,12		FIELD	30A		
RTU-A-101	460	3		31	35	HP-1A	9,11,13		FACTORY PROVIDED			
RTU-B-030	460	3		11	15	HP-1A	16,18,20		FACTORY PROVIDED			
SP-A	120	1				PLUG			PLUG			
UH-AC-014	115			3	15	LP-1A2	2		FIELD			



1 TYPICAL DIRECT BURIED CONDUIT DETAIL
E901 NTS



2 UNDERGROUND PULLBOX
E901 NTS

LIGHTING SEQUENCE OF OPERATION (SOO)	
SEQUENCE A – CLASSROOMS.	
□ SMALL MOTION, 360 DEGREE OCCUPANCY SENSOR(S) FOR AUTO ON/OFF OF ALL FIXTURES AFTER 15MIN. TIME DELAY.	
□ DAYLIGHT SENSOR(S) TO ACTUATE PRESET DIMMING LEVEL FOR "DS" FIXTURES, BASED ON DAYLIGHT AVAILABLE IN SPACE, WITH DIM-TO-OFF FUNCTIONALITY.	
□ SCENE CONTROLLER FUNCTIONALITY:	
1. BUTTON 1: ON/OFF ALL FIXTURES	
2. BUTTON 2: DIM UP OF ALL FIXTURES	
3. BUTTON 3: DIM DOWN ALL FIXTURES	
SEQUENCE B – GENERAL OFFICES.	
□ SMALL MOTION, 360 DEGREE OCCUPANCY/VACANCY SENSOR(S) FOR AUTO OFF OF ALL FIXTURES AFTER 15MIN. TIME DELAY.	
□ SCENE CONTROLLER FUNCTIONALITY:	
1. BUTTON 1: ON/OFF ALL FIXTURES	
2. BUTTON 2: DIM UP OF ALL FIXTURES	
3. BUTTON 3: DIM DOWN OF ALL FIXTURES	
SEQUENCE C – BATHROOMS/TOILET ROOMS/GYMNASIUM.	
□ SMALL MOTION, 360 DEGREE OCCUPANCY SENSOR(S) FOR AUTO ON/OFF OF ALL FIXTURES WITH 15MIN. TIME DELAY.	
□ KEY SWITCH FUNCTIONALITY:	
1. SWITCH 1: ON/OFF FIXTURES	
SEQUENCE D – VESTIBULES/CORRIDORS/STAIRWELLS/KITCHEN AREAS.	
□ LARGE MOTION, 360 DEGREE OCCUPANCY SENSOR(S) TO DIM FIXTURES TO 50% WHEN SPACE IS NOT OCCUPIED WITH 30MIN. TIME DELAY.	
□ KEY SWITCH FUNCTIONALITY:	
1. SWITCH 1: ON/OFF FIXTURES	
SEQUENCE E – CAFETERIUM.	
□ LARGE MOTION, 360 DEGREE OCCUPANCY SENSOR(S) TO DIM FIXTURES TO 50% WHEN SPACE IS NOT OCCUPIED WITH 30MIN. TIME DELAY.	
□ SCENE CONTROLLER FUNCTIONALITY:	
1. BUTTON 1: ON/OFF ALL CLOUD FIXTURES	
2. BUTTON 2: DIM UP OF ALL CLOUD FIXTURES	
3. BUTTON 3: DIM DOWN OF ALL CLOUD FIXTURES	
4. BUTTON 4: ON/OFF ALL DOWNLIGHT FIXTURES	
5. BUTTON 5: DIM UP OF ALL DOWNLIGHT FIXTURES	
6. BUTTON 6: DIM DOWN OF ALL DOWNLIGHT FIXTURES	
**REFER TO SECTION 260923 LIGHTING CONTROL DEVICES SPECIFICATION DOCUMENTS FOR SYSTEM REQUIREMENTS.	
GENERAL NOTES:	
LIGHTING CONTROL DEVICES ARE SHOWN ON LIGHTING PLANS FOR REFERENCE ONLY. PROVIDE POWER PACKS AND ROOM CONTROLLERS AS NEEDED TO SUPPORT SEQUENCING INDICATED FOR EACH SPACE.	
THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF A COMPLETE LIGHTING CONTROL SYSTEM WITH ALL DEVICES SHOWN ON A REFLECTED CLINGS PLAN. SHOP DRAWINGS SHALL BE DRAWN TO SCALE AND SENT TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.	
NOTES:	
□ FIXTURES TAGGED 'NL' SHALL BE CONTINUOUS OPERATION NIGHT LIGHTING FIXTURES, AND SHALL BE CONNECTED TO LIGHTING POWER CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.	
□ ALL EMERGENCY FIXTURES SHALL BE ENERGIZED TO 100% LIGHTING OUTPUT WITHIN 10 SECONDS OF LOSS OF POWER. ALL CONTROL SETTINGS SHALL BE OVERRIDDEN DURING A LOSS OF POWER EVENT.	

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Branch Panel: HP-B1													
Location: BOILER ROOM B001				Volts: 480/277 Wye				A.I.C. Rating: 35KA					
Supply From:				Phases: 3				Mains Type: 225-A MCB					
Mounting: SURFACE				Wires: 4				Mains Rating: 225					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FC-B-V8	15	1	0 VA	0 VA					1	15	BCU-037	2
3	FC-G-043	15	1			0 VA	4813.3 VA			3	20	P-B-1	4
5	P-B-2	20	3					4813.3 VA	4813.3 VA	--	--	--	6
7	--	--	--	4813.3 VA	4813.3 VA					--	--	--	8
9	--	--	--			4813.3 VA	4813.3 VA			3	20	P-B-3	10
11	P-DT-3	20	3					0 VA	4813.3 VA	--	--	--	12
13	--	--	--	0 VA	4813.3 VA							--	14
15	--	--	--			0 VA	0 VA			3	20	P-DT-4	16
17	F-D-B002	20	3					0 VA	0 VA	--	--	--	18
19	--	--	--	0 VA	0 VA							--	20
21	--	--	--			0 VA	0 VA			3	20	P-CH-1	22
23	P-CH-2	20	3					0 VA	0 VA	--	--	--	24
25	--	--	--	0 VA	0 VA					--	--	--	26
27	--	--	--			0 VA	0 VA			1	20	EXISTING BOILER RM LIGHTING	28
29	SPARE	20	1					0 VA	0 VA	1	20	SPARE	30
31	SPARE	20	1	0 VA	0 VA					1	20	SPARE	32
33	SPARE	20	1			0 VA	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	0 VA					3	125	PANEL LP-B1	38
39	SPACE	--	1			--	0 VA			--	--	--	40
41	SPACE	--	1					--	0 VA	--	--	--	42
Total Load:				14440 VA		14440 VA		14440 VA					
Total Amps:				52.1		52.1		52.1					
Notes:													

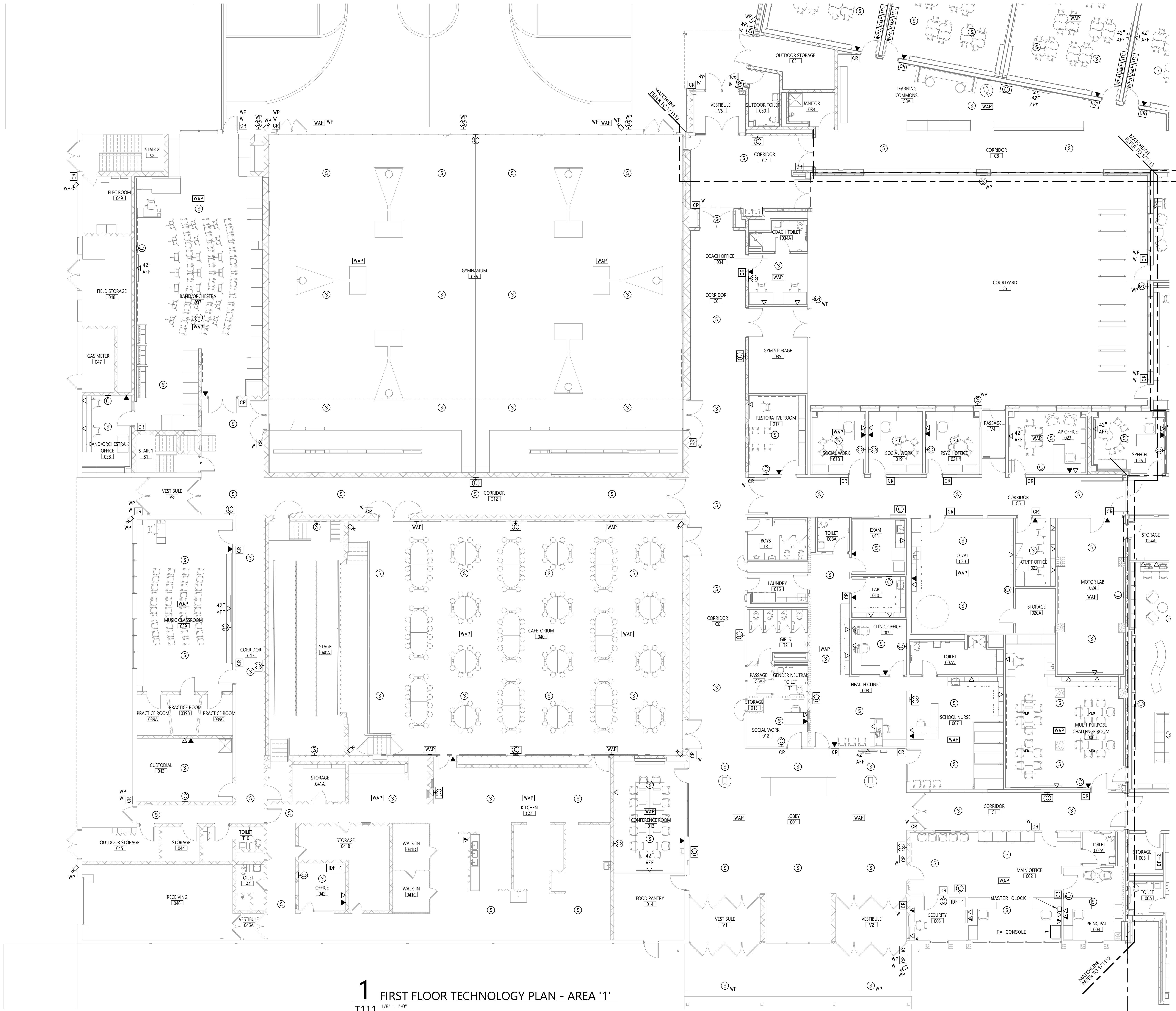
Branch Panel: HP-1A													
Location: ELECTRICAL 030				Volts: 480/277 Wye				A.I.C. Rating: 18KA					
Supply From:				Phases: 3				Mains Type: 250 A MCB					
Mounting: SURFACE				Wires: 4				Mains Rating: 250					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FC-C-V6	15	1	0 VA	0 VA					1	15	FC-A-V5	2
3	ERU-C	35	3			0 VA	0 VA			3	35	ERU-A	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	--	--	--	0 VA	0 VA					--	--	--	8
9	RTU-A-101	35	3			0 VA	0 VA			3	35	ERU-D	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	--	--	--	0 VA	0 VA					--	--	--	14
15	ERU-E	35	3			0 VA	0 VA			3	15	RTU-B-030	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	--	--	--	0 VA	0 VA					--	--	--	20
21	Lighting TOILET 100A	20	1			3252 VA	1998 VA			1	20	Lighting CORRIDOR C2	22
23	Lighting LIBRARY MEDIA CENTER 101	20	1					1437 VA	2468 VA	1	20	Lighting KINDERGARTEN CLASSROOM...	24
25	Lighting LEARNING COMMONS C3A	20	1	3812 VA	2208 VA					1	20	Lighting SPEECH 026	26
27	Lighting CORRIDOR C7	20	1			4652.3 VA	3696 VA			1	20	Lighting 1ST GRADE CLASSROOM 114	28
29	Lighting LIBRARY MEDIA CENTER 101	20	1					2825 VA	0 VA	1	20	FC-A-S3	30
31	FC-A-T8	20	1	0 VA	0 VA					1	20	SPARE	32
33	SPARE	20	1			0 VA	0 VA			1	20	SPARE	34
35	SPARE	20	1					0 VA	0 VA	1	20	SPARE	36
37	SPACE	--	1	--	0 VA					3	125	PANEL LP-1A	38
39	SPACE	--	1			--	0 VA			--	--	--	40
41	SPACE	--	1					--	0 VA	--	--	--	42
Total Load:				6020 VA		13595 VA		6730 VA					
Total Amps:				21.7		49.5		24.7					
Notes:													

Branch Panel: HP-1B													
Location: DATA/ELECT C10B				Volts: 480/277 Wye				A.I.C. Rating: 18KA					
Supply From:				Phases: 3				Mains Type: 225 A MCB					
Mounting: SURFACE				Wires: 4				Mains Rating: 225					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FC-D-V7	15	1	0 VA	1661.1 VA					1	20	Lighting CORRIDOR C10	2
3	Lighting BOYS T7	20	1			2460.9 VA	6000 VA			1	20	Lighting STORAGE 119A	4
5	Lighting 2ND GRADE CLASSROOM 120	20	1					4752 VA	0 VA	1	15	FC-A-S4	6
7	SPARE	20	1	0 VA	0 VA					1	20	SPARE	8
9	SPARE	20	1			0 VA	0 VA			1	20	SPARE	10
11	SPARE	20	1					0 VA	--	1	--	SPACE	12
13	SPACE	--	1	--	--					1	--	SPACE	14
15	SPACE	--	1			--	--			1	--	SPACE	16
17	SPACE	--	1					--	--	1	--	SPACE	18
19	SPACE	--	1	--	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	0 VA					3	60	PANEL LP-1B	38
39	SPACE	--	1			--	0 VA			--	--		40
41	SPACE	--	1					--	0 VA	--	--		42
Total Load:				1661 VA		8461 VA		4752 VA					
Total Amps:				6		32.3		18.9					
Notes:													

Branch Panel: HP-2A													
Location: DATA/ELECT C14B				Volts: 480/277 Wye				A.I.C. Rating: 18KA					
Supply From:				Phases: 3				Mains Type: 225 A MCB					
Mounting: SURFACE				Wires: 4				Mains Rating: 225					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FC-A-S4	15	1	0 VA	0 VA					1	15	FC-A-T12	2
3	FC-A-S3	15	1			0 VA	0 VA			3	70	ERU-F	4
5	ERU-G	60	3					0 VA	0 VA	--	--	--	6
7	--	--	--	0 VA	0 VA					--	--	--	8
9	--	--	--			0 VA	2832.1 VA			1	20	Lighting STAIR 3 S3	10
11	Lighting 4TH GRADE CLASSROOM 200	20	1					4620 VA	6858 VA	1	20	Lighting 5TH GRADE...	12
13	SPARE	20	1	0 VA	0 VA					1	20	SPARE	14
15	SPARE	20	1			0 VA	0 VA			1	20	SPARE	16
17	SPARE	20	1					0 VA	--	1	--	SPARE	18
19	SPACE	--	1	--	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	0 VA					3	60	LP-2A	38
39	SPACE	--	1			--	0 VA			--	--	--	40
41	SPACE	--	1					--	0 VA	--	--	--	42
Total Load:				0 VA		2832 VA		11478 VA					
Total Amps:				0		11.8		43					
Notes:													

Branch Panel: LP-B1													
Location: BOILER ROOM B001				Volts: 120/208 Wye				A.I.C. Rating: 22KA					
Supply From:				Phases: 3				Mains Type: 225 A MCB					
Mounting: SURFACE				Wires: 4				Mains Rating: 225					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FC-J-041	20	2	0 VA	4813.3 VA					3	20	P-DT-135-1	2
3	--	--	--			0 VA	4813.3 VA			--	--	--	4
5	P-DT-146-1	20	3					4813.3 VA	4813.3 VA	--	--	--	6
7	--	--	--	4813.3 VA	4813.3 VA					3	20	P-DT-146-2	8
9	--	--	--			4813.3 VA	4813.3 VA			--	--	--	10
11	P-DT-135-2	20	3					4813.3 VA	4813.3 VA	--	--	--	12
13	--	--	--	4813.3 VA	0 VA					1	20	F-M	14
15	--	--	--			4813.3 VA	14440 VA			1	20	DRP-A	16
17	F-B-036-1	25	2					0 VA	0 VA	2	25	F-B-036-2	18
19	--	--	--	0 VA	0 VA					--	--	--	20
21	RM-1 (RFQNT LEAK DET)	20	1			0 VA	360 VA			1	20	Receptacle OFFICE 042	22
23	RECEPTACLES BAND OFFICE	20	1					540 VA	720 VA	1	20	RECEPTACLES BAND/ORCHESTRA	24
25	Receptacle	20	1	180 VA	540 VA					1	20	RECEPTACLES MUSIC CLASSROOM	26
27	OS-1	15	1			0 VA	0 VA			1	20	SPARE	28
29	SPARE	20	1					0 VA	0 VA	1	20	SPARE	30
31	SPARE	20	1	0 VA	--					1	--	SPACE	32
33	SPARE	20	1			0 VA	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
Total Load:				19973 VA		34053 VA		20513 VA					
Total Amps:				166.4		284.5		171.6					
Notes:													

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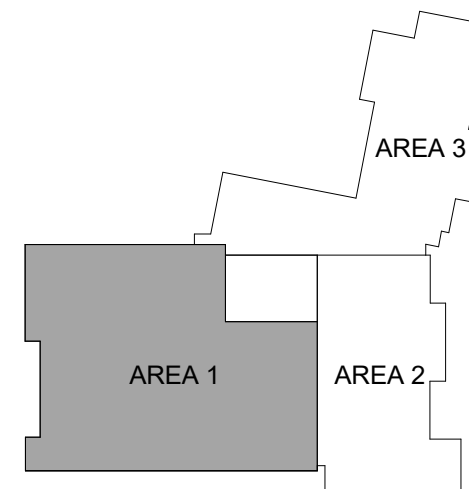


1 FIRST FLOOR TECHNOLOGY PLAN - AREA '1'
T111 1/8" = 1'-0"

SHEET NOTES

- A. FIELD COORDINATE ROUTING OF ALL SYSTEM AND DATA CABLEING/RACEWAYS.
- B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

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**BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT**

Project Title



DATE	DESCRIPTION

Drawn By: WH
Checked By: CH
Proj. #: 03-02-00-01-0-010-014
CSArch Proj. #: 215-2402
Issued for Bid: 03/12/2026

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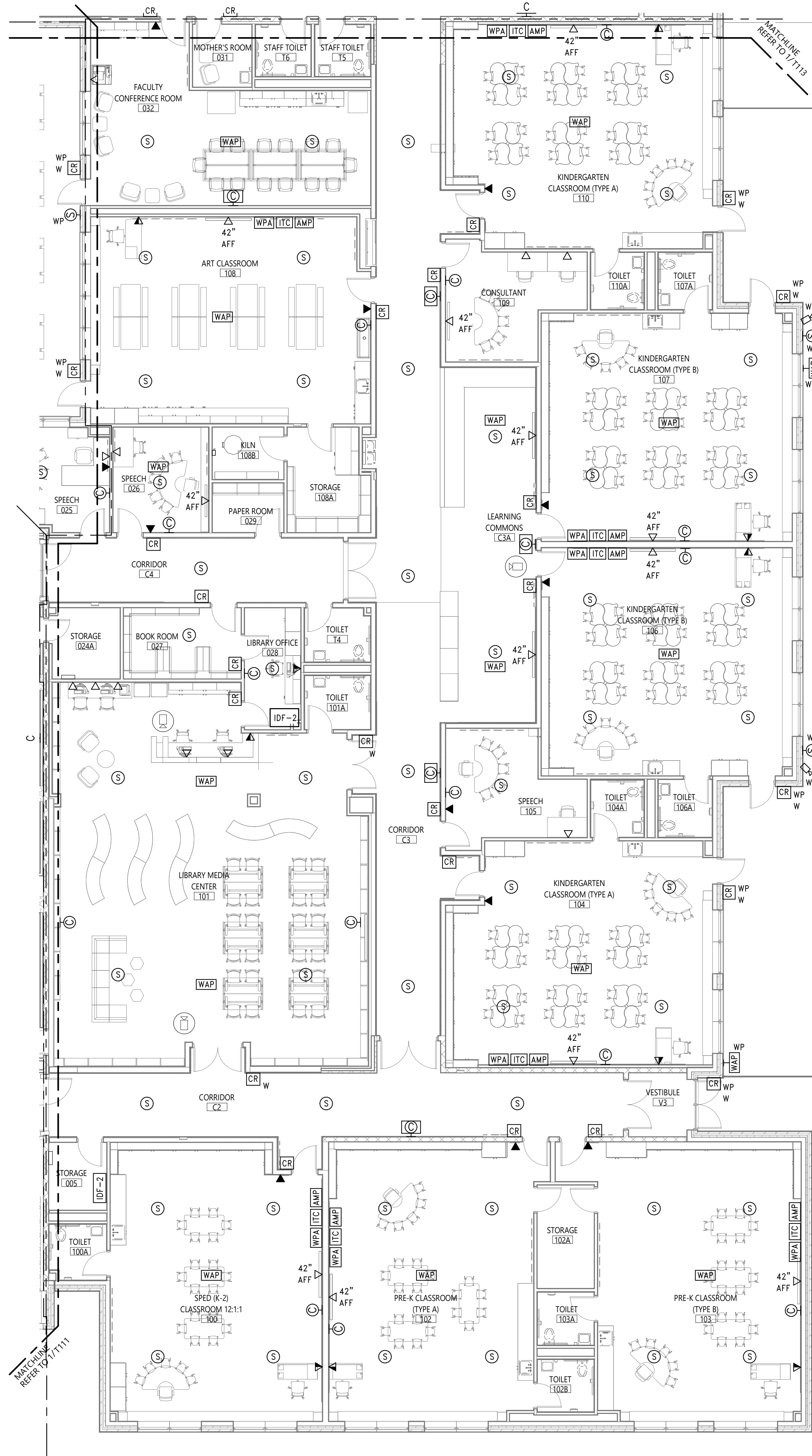
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PLAN - AREA
'1'**

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CONSTRUCTION DOCUMENTS

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1 FIRST FLOOR TECHNOLOGY PLAN - AREA '2'

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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title



EXPIRES 5/31/2026

	DATE	DESCRIPTION

Drawn By:	M
Checked By:	K
Proj. #:	03-02-00-01-0-010-01
CSArch Proj. #:	215-240
Issued for Bid:	03/12/202

Sheet Title

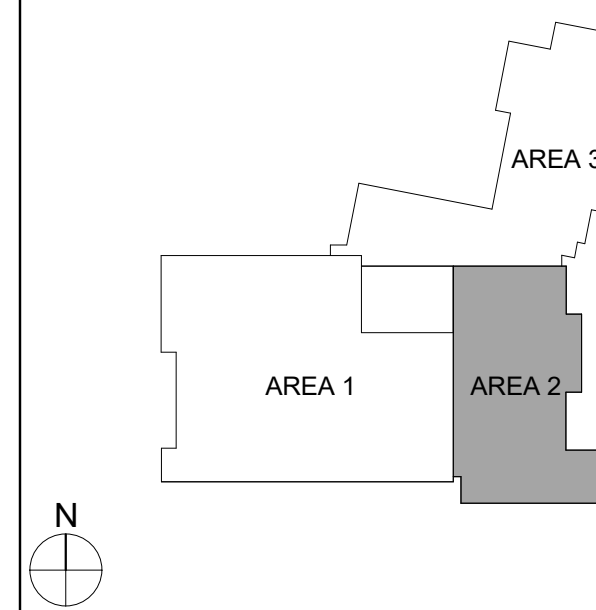
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PLAN - AREA
'2'

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T112

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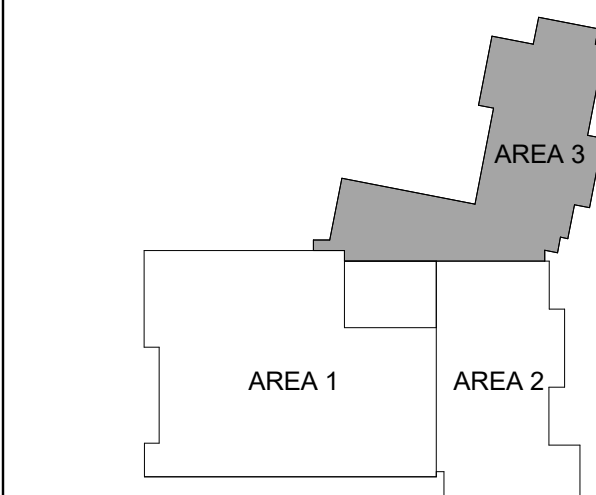


1 FIRST FLOOR TECHNOLOGY PLAN - AREA '3'
T113 1/8" = 1'-0"

SHEET NOTES

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- B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

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BINGHAMTON CITY SCHOOL DISTRICT THEODORE ROOSEVELT ELEMENTARY SCHOOL 2024 CAPITAL PROJECT

Project Title



DATE	DESCRIPTION

Drawn By: NH
Checked By: KH
Proj. #: 03-02-00-01-0-010-014
CSArch Proj. #: 215-2402
Issued for Bid: 03/12/2026

Sheet Title

FIRST FLOOR
TECHNOLOGY
PLAN - AREA
'3'

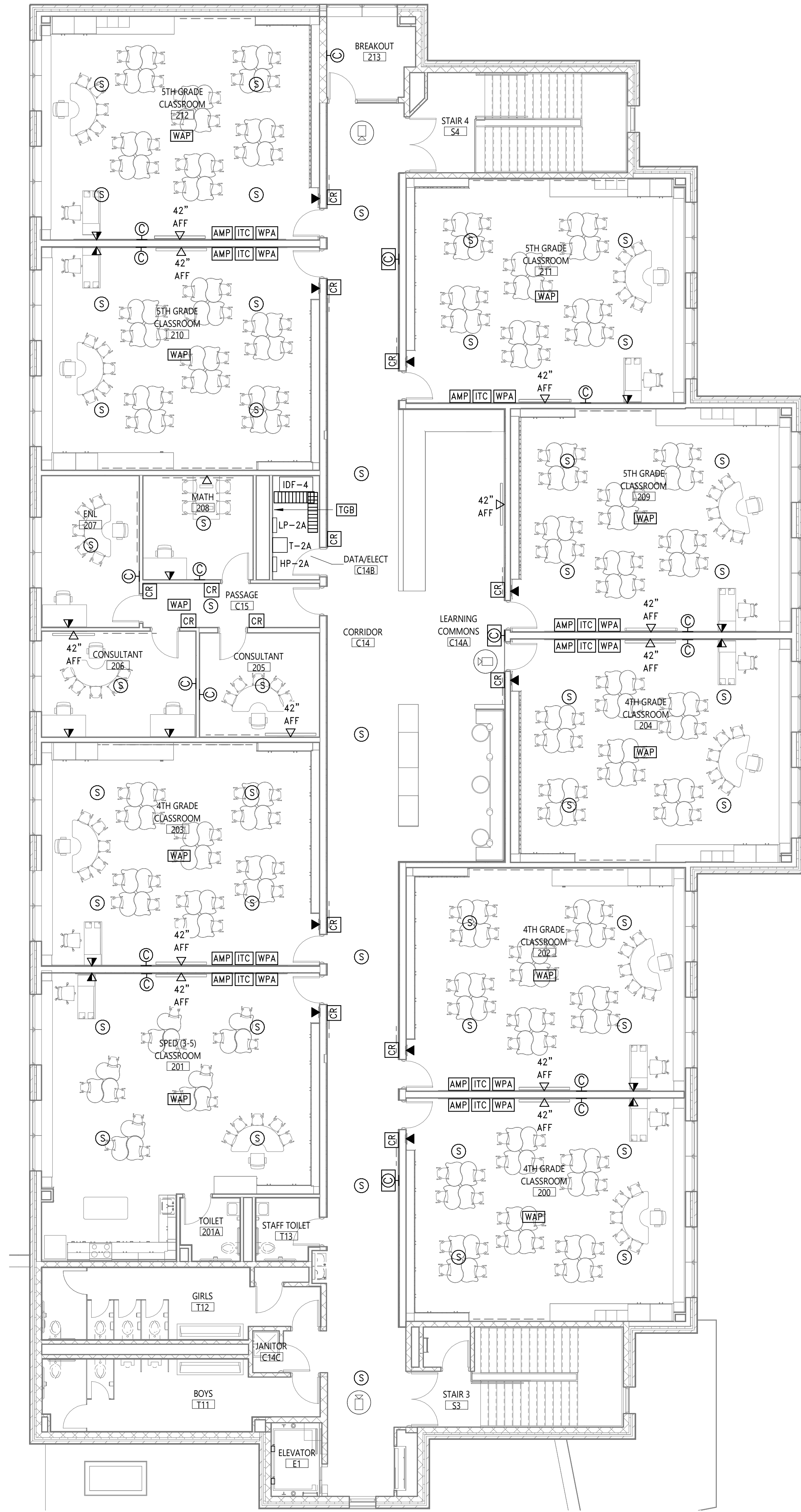
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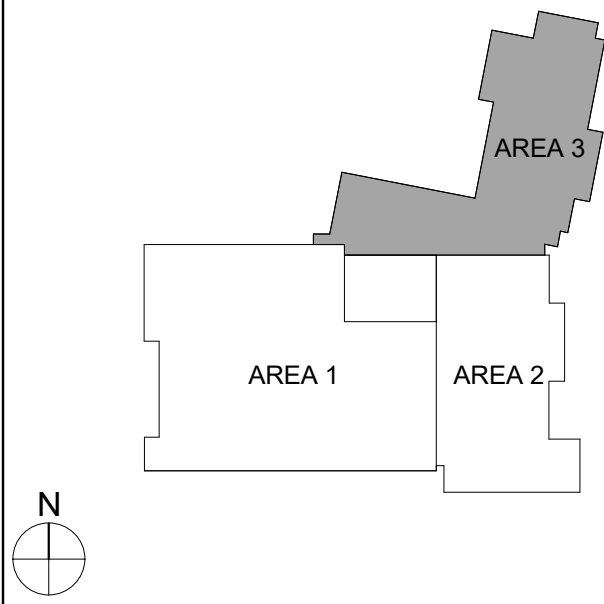


1 SECOND FLOOR TECHNOLOGY PLAN - AREA '3'
T123 1/8" = 1'-0"

SHEET NOTES

- A. FIELD COORDINATE ROUTING OF ALL SYSTEM AND DATA CABLEING/RACEWAYS.
- B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

KEY PLAN



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THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title



DATE	DESCRIPTION

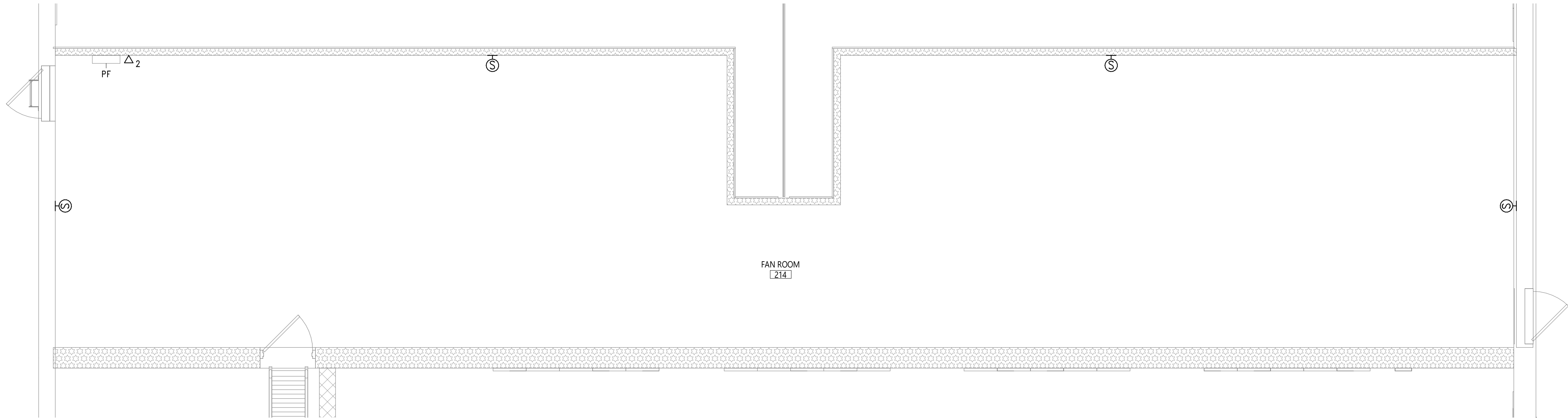
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Sheet Title
SECOND FLOOR TECHNOLOGY PLAN - AREA '3'

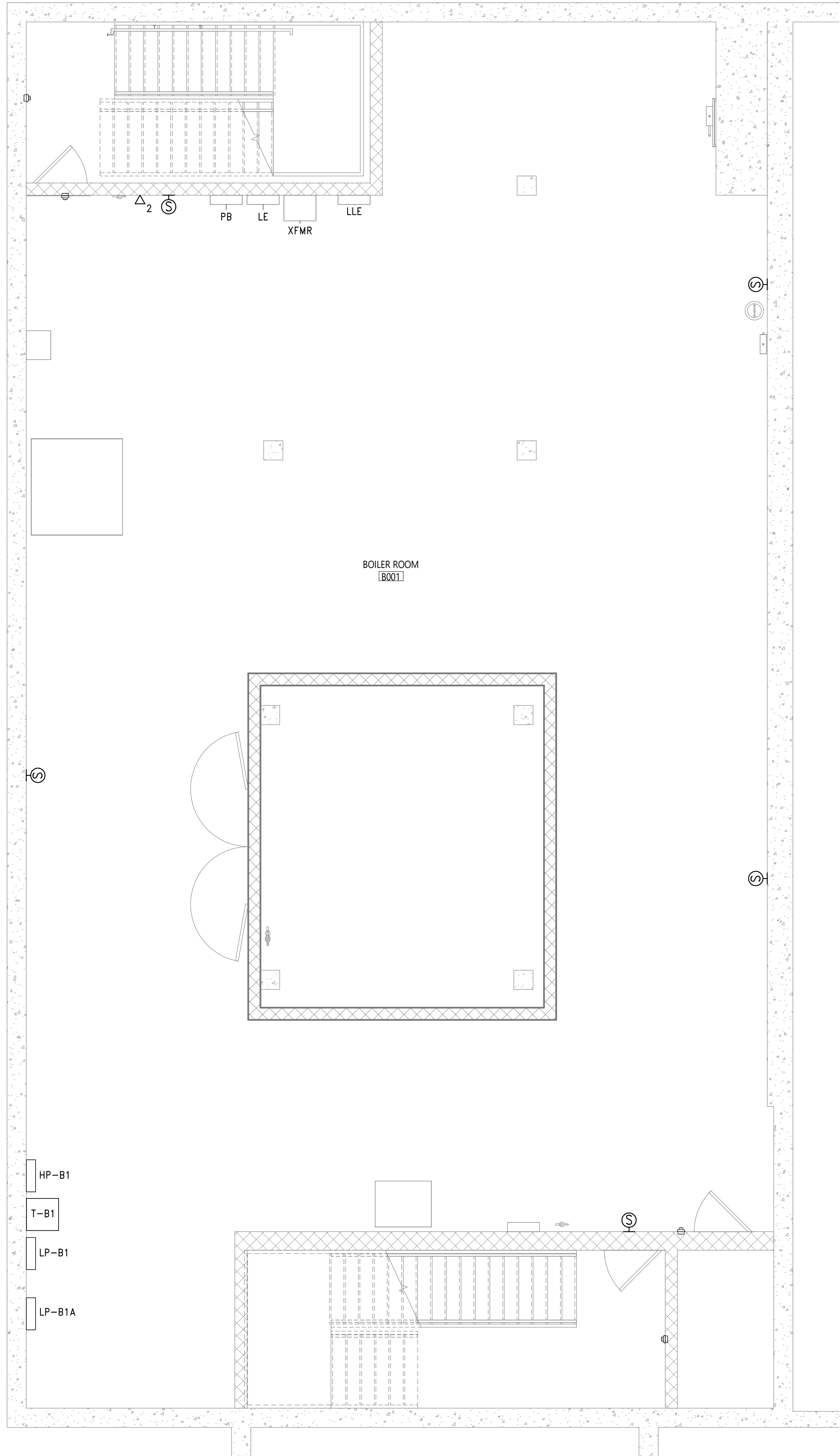
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1 MEZZANINE PLAN
T301 1/4" = 1'-0"



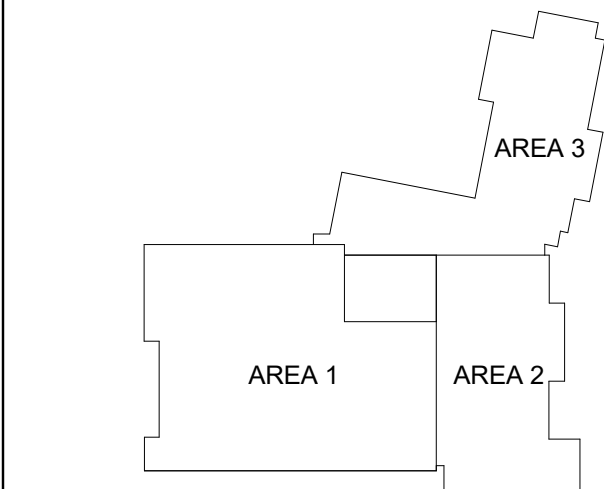
2 BOILER ROOM PLAN
T301 1/4" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL SYSTEM AND DATA CABLING/RACEWAYS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

KEY PLAN



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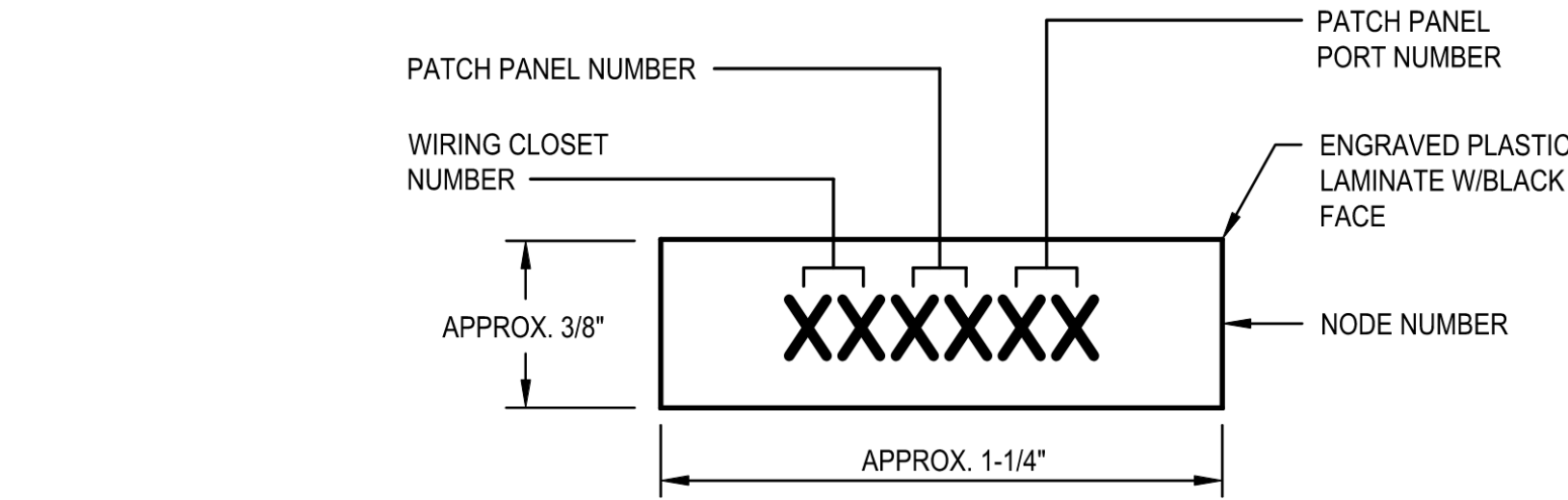
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DATA DROP LEGEND PLATE

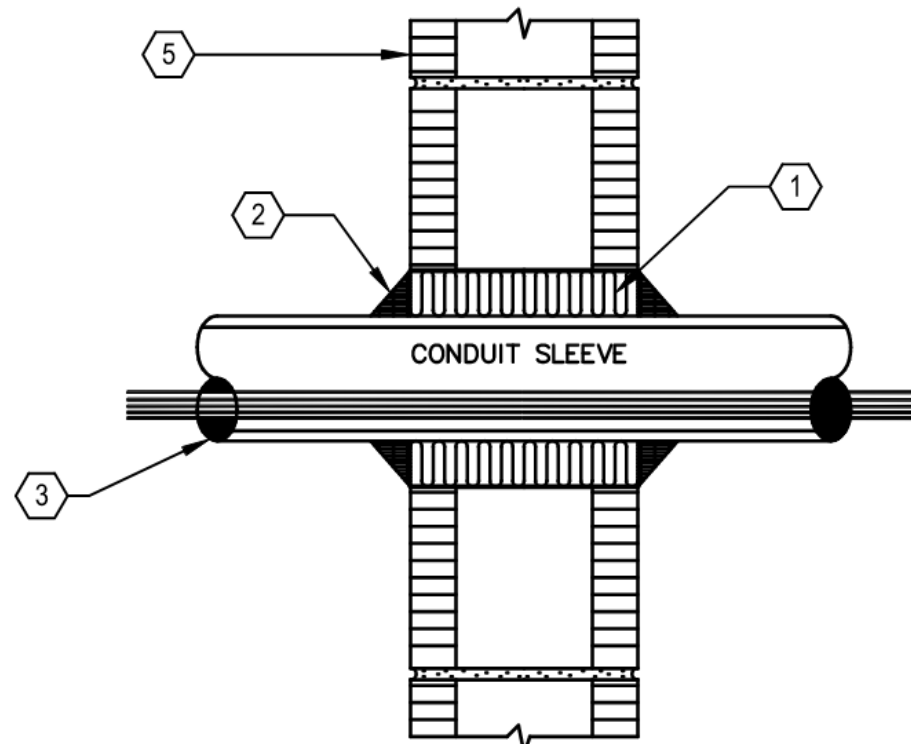
NOTES:

1. PROVIDE (1) LEGEND PLATE FOR EACH DATA CONNECTION.
2. SECURELY MOUNT PLATE TO RACEWAY/POWER POLE WITH EPOXY STYLE ADHESIVE.

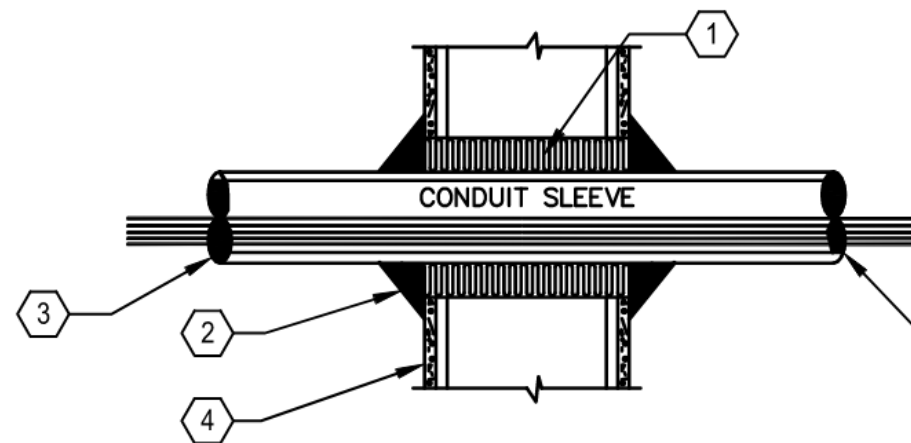
GENERAL:

REFER TO SPEC. SECTION 270310, 1.19 IDENTIFICATION & NAMEPLATE PUNCH TAPE LABELS ARE NOT ACCEPTABLE TO OWNER

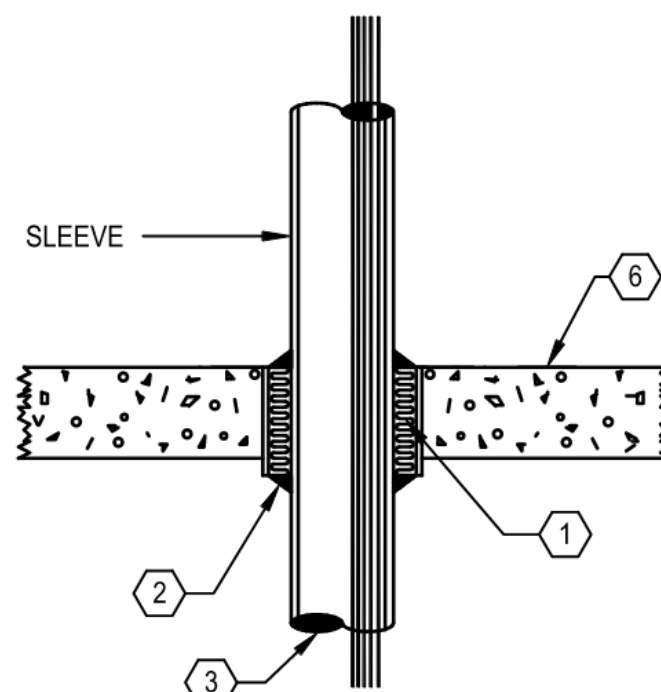
1 DATA DEVICE LEGEND PLATE DETAIL



MASONRY WALL



STUD PARTION



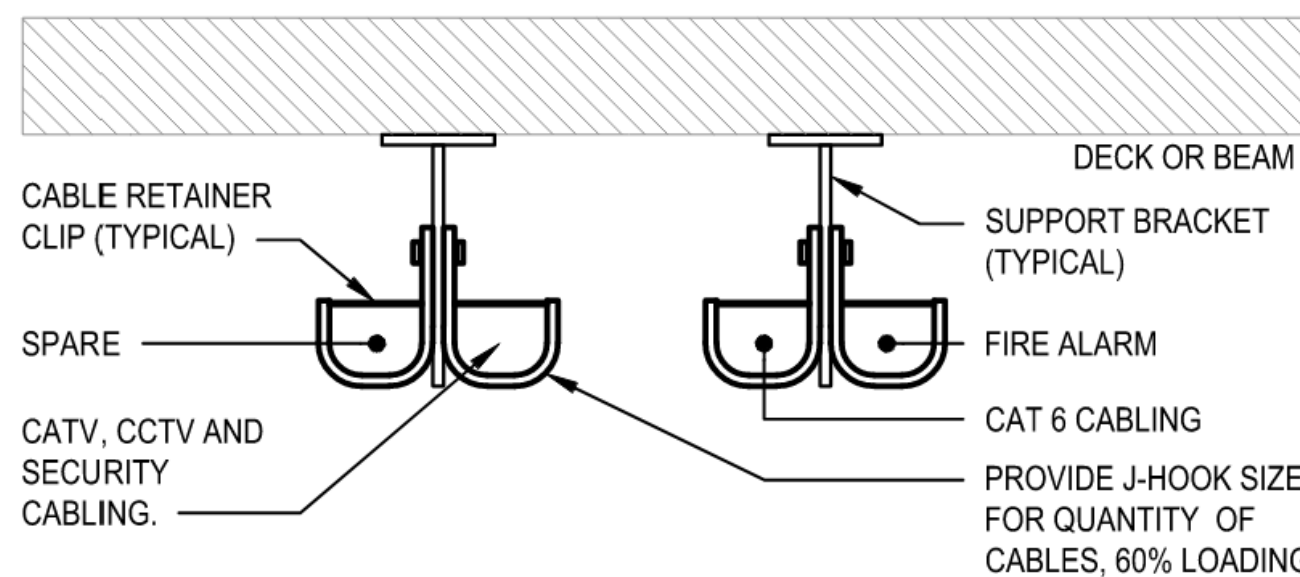
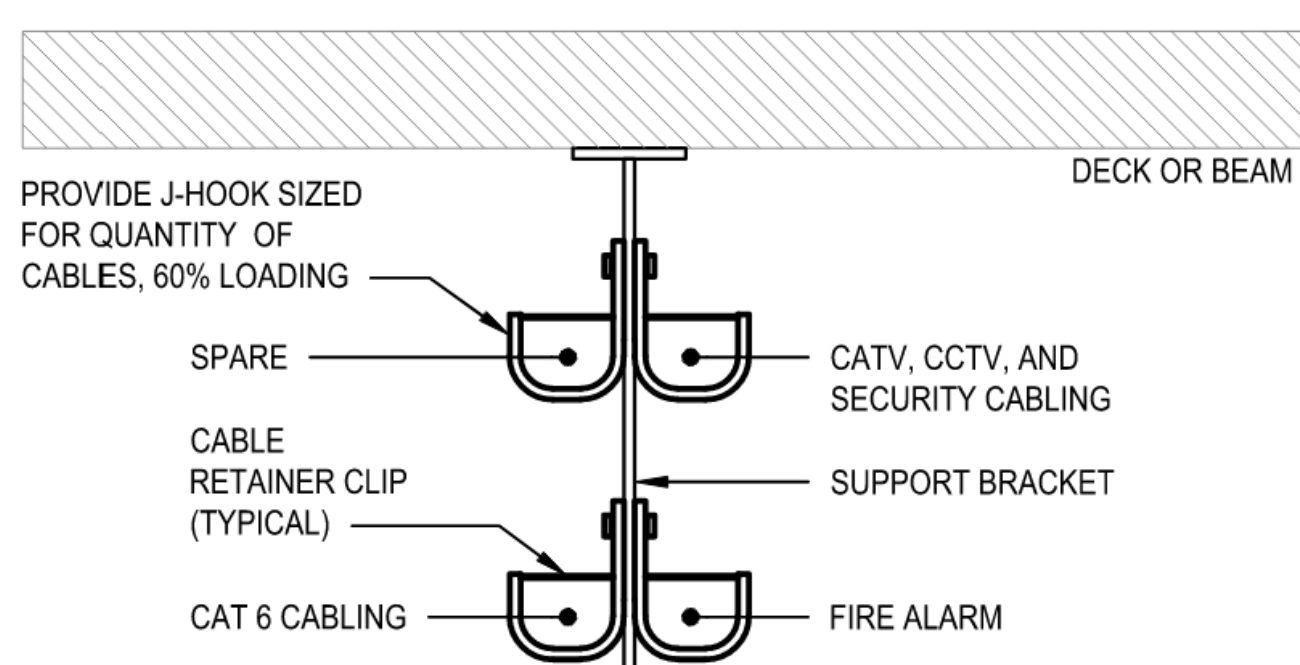
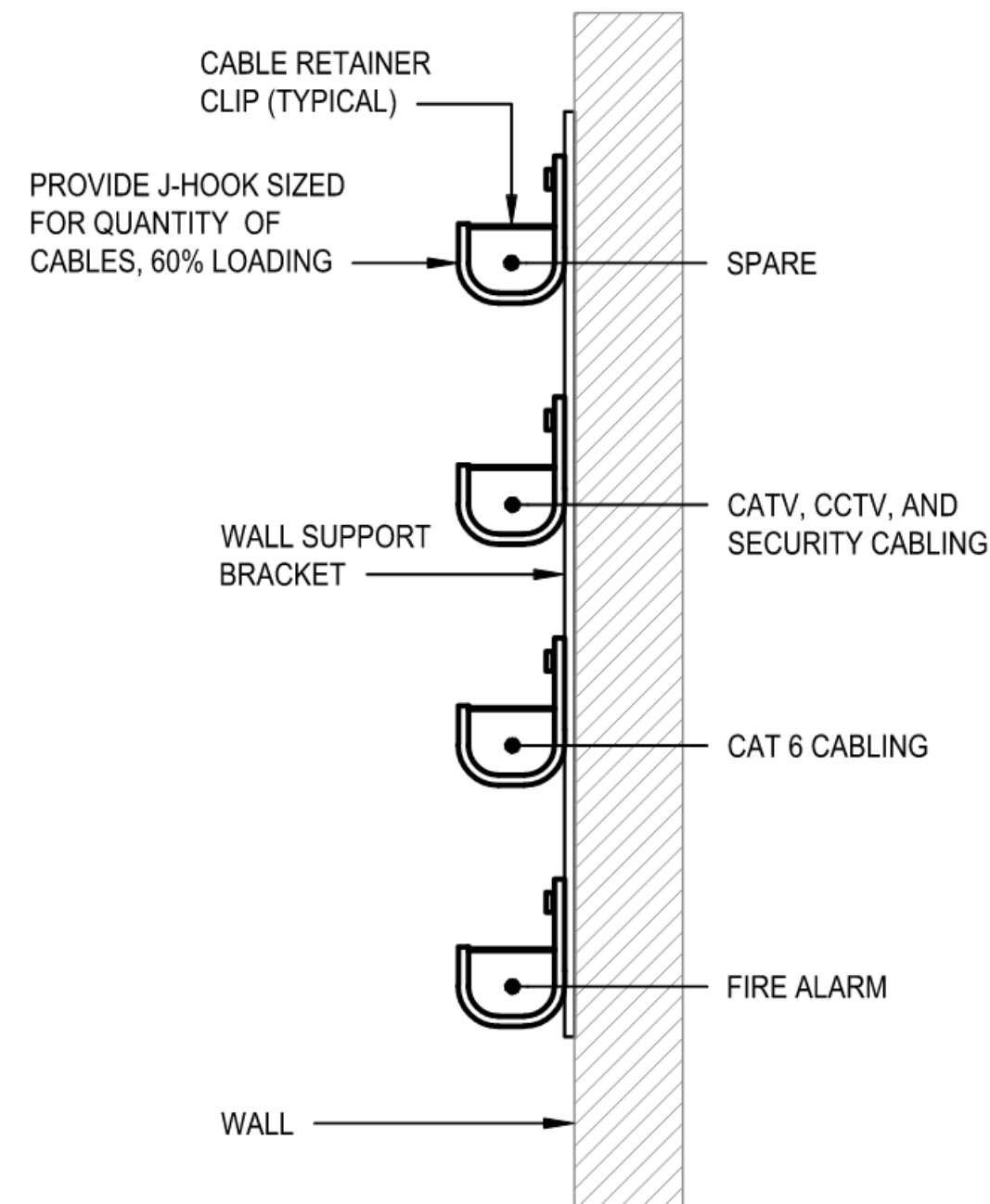
FLOOR SLAB

- 1 1/2- TO 5/8-IN SPACE, PACK WITH FS CEREBLANKET PER SPECIFICATIONS.
- 2 SEAL ALL OPENING WITH FLAME STOP V PER SPECIFICATIONS.
- 3 FOR EXISTING PENETRATIONS CONTRACTOR IS TO REMOVE THE EXISTING FIRESTOPPING MATERIAL TO INSTALL NEW CABLING AND REINSTALL FIRE STOP V PER THE SPECIFICATION AFTER ALL WORK IS COMPLETED.
- 4 PARTITION WITH WOOD OR METAL STUDS AND GYPSUMBOARD OR PLASTERBOARD BOTH SIDES.
- 5 CONCRETE BLOCK OR POURED CONCRETE WALLS.
- 6 CONCRETE FLOOR SLAB.

2 NEW AND EXISTING CONDUIT SLEEVE FIRE STOPPING DETAIL

NOTES

- PROVIDE HANGERS IN THE CONFIGURATIONS OR COMBINATIONS OF CONFIGURATIONS SHOWN AS REQUIRED TO SUIT FIELD CONDITIONS
- PROVIDE RUNS 4' ON CENTER AS SHOWN ON SYSTEM E400 SERIES DWGS.
- SECURELY SUPPORT J-HOOKS FROM WALL OR DECK. PROVIDE MASONRY ANCHORS, UNISTURT SUPPORTS, BEAM CLAMPS, AND MISC. FASTENERS AS REQUIRED.



3 J-HOOK CABLE HANGER DETAIL

GENERAL NOTES - REMOVALS

- ALL EQUIPMENT BEING REMOVED BY CABLING CONTRACTOR IS ASSUMED TO BE UNSALVAGEABLE AND IS TO BE PROPERLY DISPOSED OF BY CABLING CONTRACTOR. PRIOR TO REMOVALS, COORDINATE WITH OWNER FOR ANY EQUIPMENT OWNER MAY DESIRE TO BE TURNED OVER FOR THE OWNER USE.
- EVERY EFFORT HAS BEEN MADE TO INDICATE ALL DEVICES THAT ARE BEING REMOVED THROUGH EXISTING DRAWINGS AND FIELD OBSERVATIONS, HOWEVER THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BIDDING AND VERIFY ALL REMOVALS. SOME DIFFERENCES MAY ONCUR.
- REMOVAL ALL CABLING SUPPORT SYSTEMS FOR CURRENT CABLING. ALL J-HOOKS D-RINGS AND SIMILAR EQUIPMENT SHALL BE REMOVED FROM THE STRUCTURE AND ABOVE ALL CEILINGS. ALL NEW WILL BE PROVIDED FOR NEW CABLING.
- ALL CABLING FROM DEVICES BEING REMOVED MUST BE REMOVED BACK TO POINT OF ORIGIN. NO CABLES CAN BE ABANDON IN THE CEILING SPACE PER INTERNATIONAL FIRE CODE SECTION 315.6.. UNLESS PHYSICALLY UNABLE TO BE REMOVED DUE TO FIELD CONDITIONS THAT PROHIBIT WORKING IN AN AREA WHERE THE CABLE IS ROUTED. IN THIS CASE, REMOVE CABLE FROM BOTH SIDES OF THE PROHIBITED AREA AND BACK TO POINT OF ORIGIN.

SPECIAL NOTES - REMOVALS

- FOR ALL HARDWARE BEING REMOVED BY THIS CONTRACTOR, THIS CONTRACTOR SHALL RECORD ON A SPREADSHEET THE FOLLOWING: SERIAL NUMBER OF DEVICE AND THE ASSET TAG OF THE DEVICE. THIS DOCUMENT SHALL BE SUBMITTED AS PART OF THE CLOSEOUT DOCUMENTS. THIS IS A DISTRICT REQUIREMENT FOR THE DISPOSAL OF ALL EQUIPMENT AND REMOVAL FROM INVENTORY.

GENERAL NOTES - COMMUNICATIONS

- PROVIDE ALL CATEGORY 6, 6A AND FIBER OPTIC CABLE TERMINATIONS AND TESTING.
- "DATA DROP" OR "DATA OUTLET" INCLUDES CATEGORY 6 & 6A CABLE, TERMINATION HARDWARE, RACEWAY, CABLE TERMINATION AND CABLE TESTING.
- PROVIDE ONE GREEN CATEGORY 6A CABLE FOR ALL ACCESS POINTS.
- PROVIDE A ORANGE CATEGORY 6 CABLE FOR ALL NEW IP CAMERAS.
- PROVIDE CONDUIT SLEEVES THROUGH ALL WALLS. CONDUIT SLEEVES SHALL BE A MINIMUM OF 1-1/2". PROVIDE OTHER SIZES AS NOTED ON PLANS.
- PROVIDE RE-PENETRATEABLE FIRE STOPPING AROUND ALL SLEEVES AND INSIDE SLEEVE AFTER CABLE IS INSTALLED.
- WHEN SIZES ARE NOT NOTED OR SLEEVES ARE NOT SHOWN BUT REQUIRED FOR THE INSTALLATION SLEEVES SHALL BE SIZED AS FOLLOWS.

CABLE	1"	1.25"	1.5"	2"	2.5"	3"	3.5"	4"
Cat 6A	4	7	10	18	24	41	56	73
CAT 6	7	9	14	24	28	55	75	98

- PROVIDE LADDER RACK WITH WATERFALLS ABOVE ALL NEW CABLE RACKS.
- PROVIDE HORIZONTAL WIRE MANAGEMENT BELOW ALL NEW PATCH PANELS.
- EXACT LOCATION OF CABLES FOR WIRELESS ACCESS POINTS SHALL BE VERIFIED DURING A BUILDING WALK THROUGH PRIOR TO BEGINNING INSTALLATION.
- TEST ALL EXISTING FIBER OPTIC CABLES THAT ARE SCHEDULED TO BE USED ON THE NEW 10GB BACKBONE. PROVIDE TEST RESULTS INCLUDING CABLE LENGTHS.
- PROVIDE CABLE HANGERS FOR ALL UTP CABLE AND FIBER RUNS ON THE PROJECT. HANGERS FOR MAIN RUNS SHALL BE A MINIMUM OF 2". CABLE HANGERS FOR CABLE RUNS FROM MAIN RUNS TO THE STATION OUTLET SHALL BE A MINIMUM OF 3/4". INSTALL CABLE HANGERS FOUR FOOT ON CENTER FOR THE ENTIRE LENGTH OF RUN. SEE DETAIL 2 ON EW 603.
- PROVIDE SURFACE RACEWAY FOR A CABLE LOCATED IN FINISHED SPACE. PROVIDE CONDUIT FOR CABLES INSTALLED IN MECHANICAL AND UTILITY SPACES. PROVIDE OPEN TOP CABLE HANGERS FOR CABLE INSTALLED ABOVE FINISHED CEILINGS.
- PROVIDE ADHESIVE LABEL ON ALL BOXES.
- CABLES SHALL CONFORM TO THE FOLLOWING COLOR SCHEME
 - DATA - BLUE
 - WIRELESS ACCESS POINTS - GREEN
 - SECURITY CAMERAS AND CONTROLLERS - ORANGE
 - VOIP and IP SPEAKER - YELLOW
 - FIRE ALARM - RED
- COORDINATE DATA RACK ELEVATIONS AND LAYOUTS WITH THE NETWORK HARDWARE CONTRACTOR AND THE OWNERS IT STAFF. ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE. OBTAIN THE ENGINEERS AND OWNERS APPROVAL PRIOR TO INSTALLING PATCH PANELS.
- GROUND ALL NEW EQUIPMENT RACKS.
- INSTALL WALL AND CEILING MOUNTED ACCESS POINTS FURNISHED BY THE NETWORK HARDWARE/WIRELESS CONTRACT.
- INSTALL EXTERIOR ANTENNAS FURNISHED BY NETWORK HARDWARE/WIRELESS CONTRACT. CORE WALLS AND SEAL OPENINGS AFTER ANTENNAS ARE INSTALLED AND TESTED. INSTALL SURGE PROTECTOR AND GROUND TO BUILDING STEEL.
- INSTALL LEXAN BOXES FURNISHED BY THE NETWORK HARDWARE/WIRELESS CONTRACTOR IN ALL GYMNASIUMS.
- REPAIR AND PAINT ALL FINISHED WALLS, FLOORS ETC. DAMAGED DURING INSTALLATION.
- PROVIDE NEW CEILING TILES MATCHING THE EXISTING IF DAMAGED DURING THE INSTALLATION. PRIOR TO BEGINNING WORK NOTIFY THE OWNER OF ALL EXISTING DAMAGED TILES IN THE WORK AREA. IF EXISTING DAMAGED TILES ARE NOT NOTED THE CABLING CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT.
- DISCONNECT AND REMOVE ALL EXISTING CABLES THAT ARE ABANDONED AS PART OF THE COMMUNICATION SYSTEM UPGRADE.
- PROVIDE TEST REPORTS AND AS BUILT DRAWINGS AT THE COMPLETION OF WORK PRIOR TO PROJECT CLOSE OUT.

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THEODORE ROOSEVELT ELEMENTARY SCHOOL
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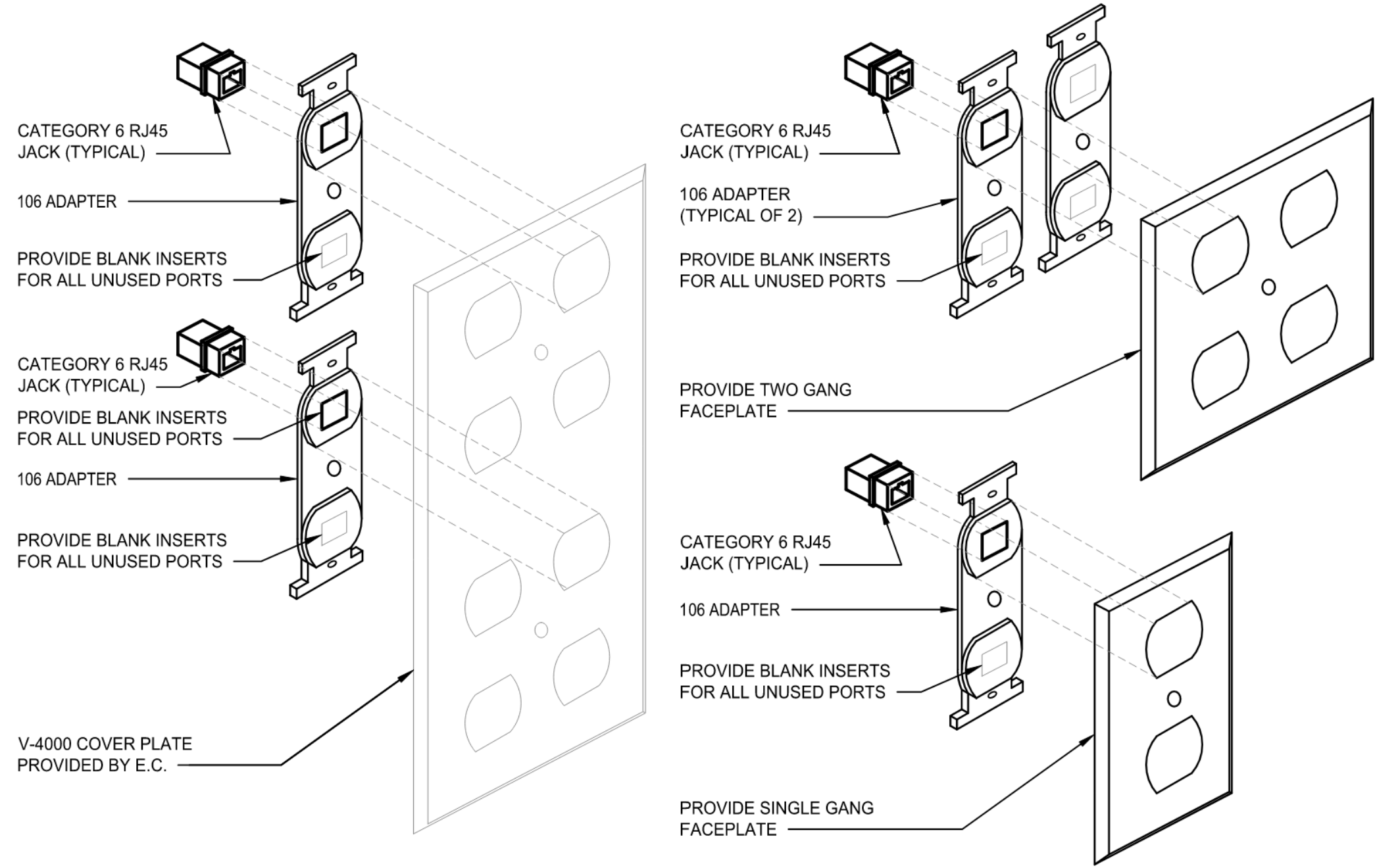
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DETAILS

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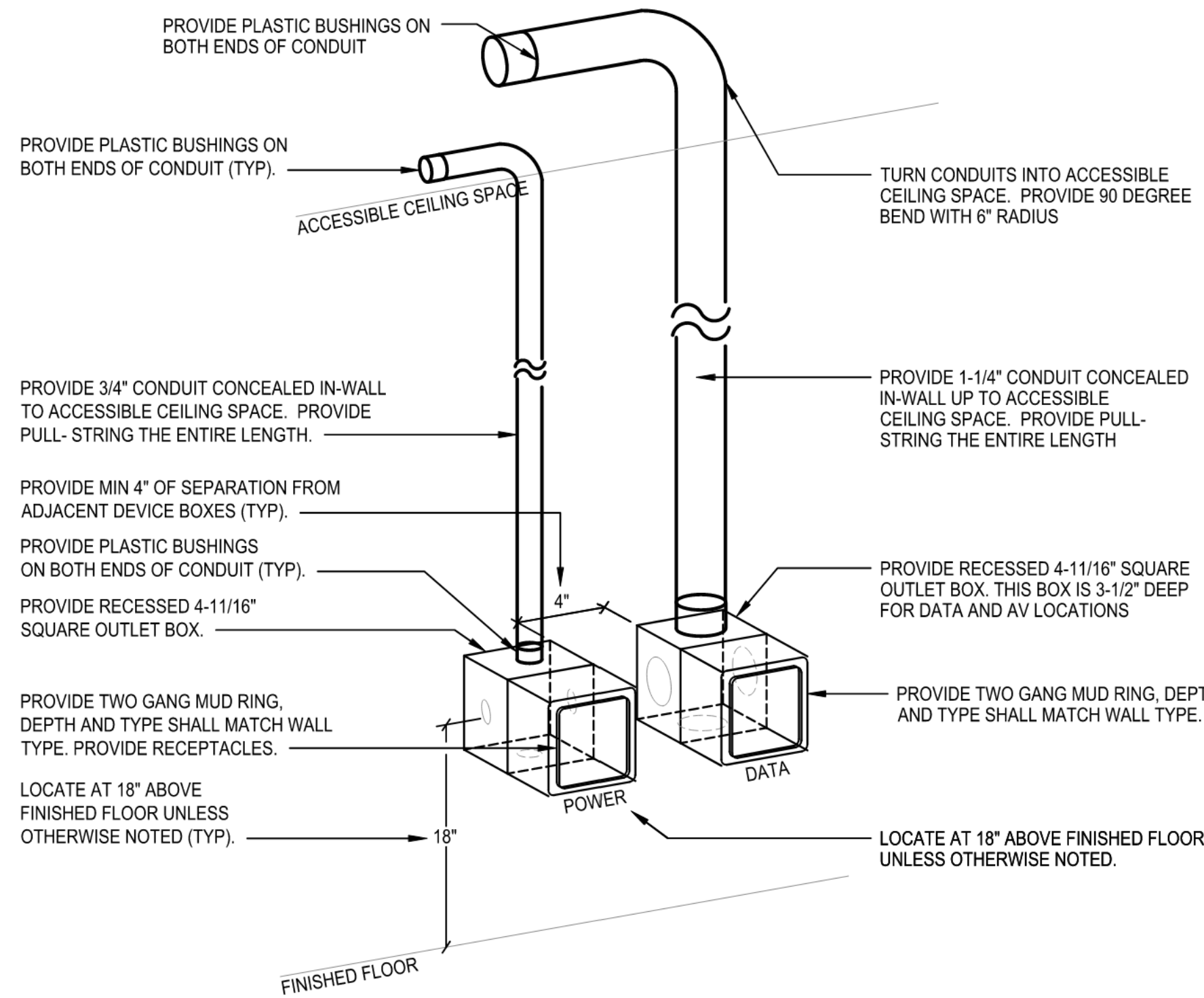
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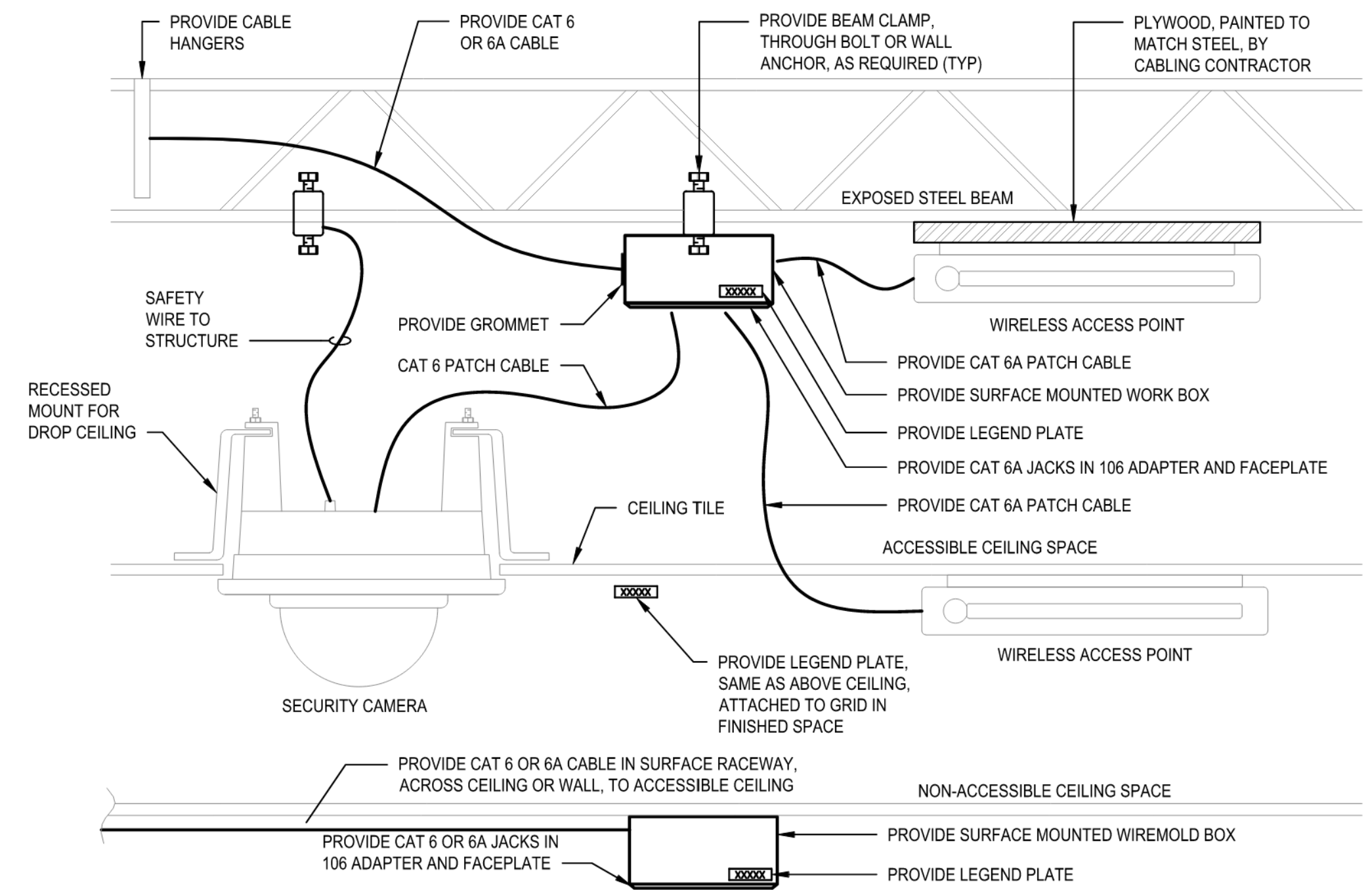
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1 COMMUNICATIONS FACEPLATE DETAIL
T902 NTS



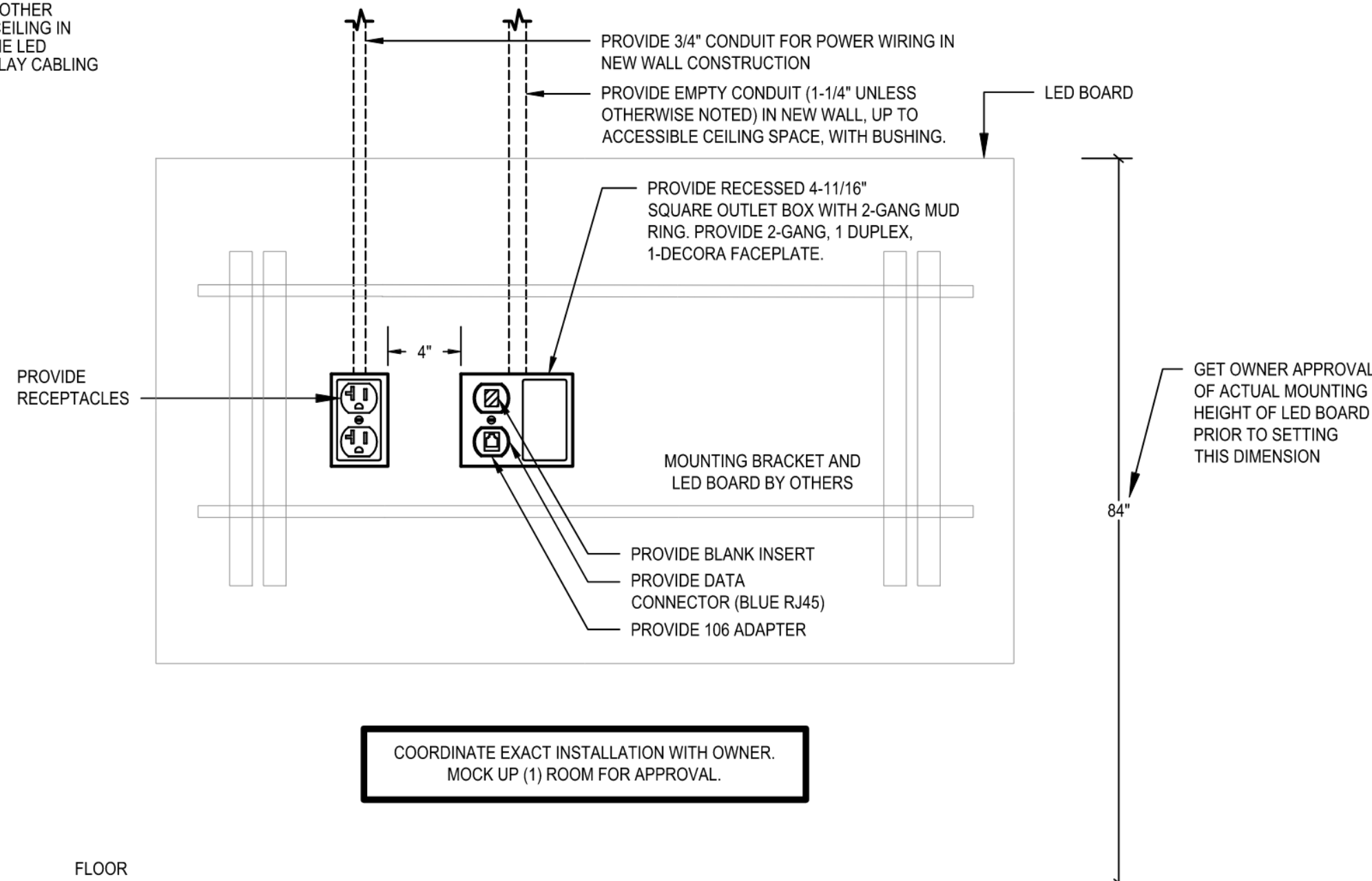
2 COMMUNICATIONS DATA BOX (DB) DETAIL
T902 NTS



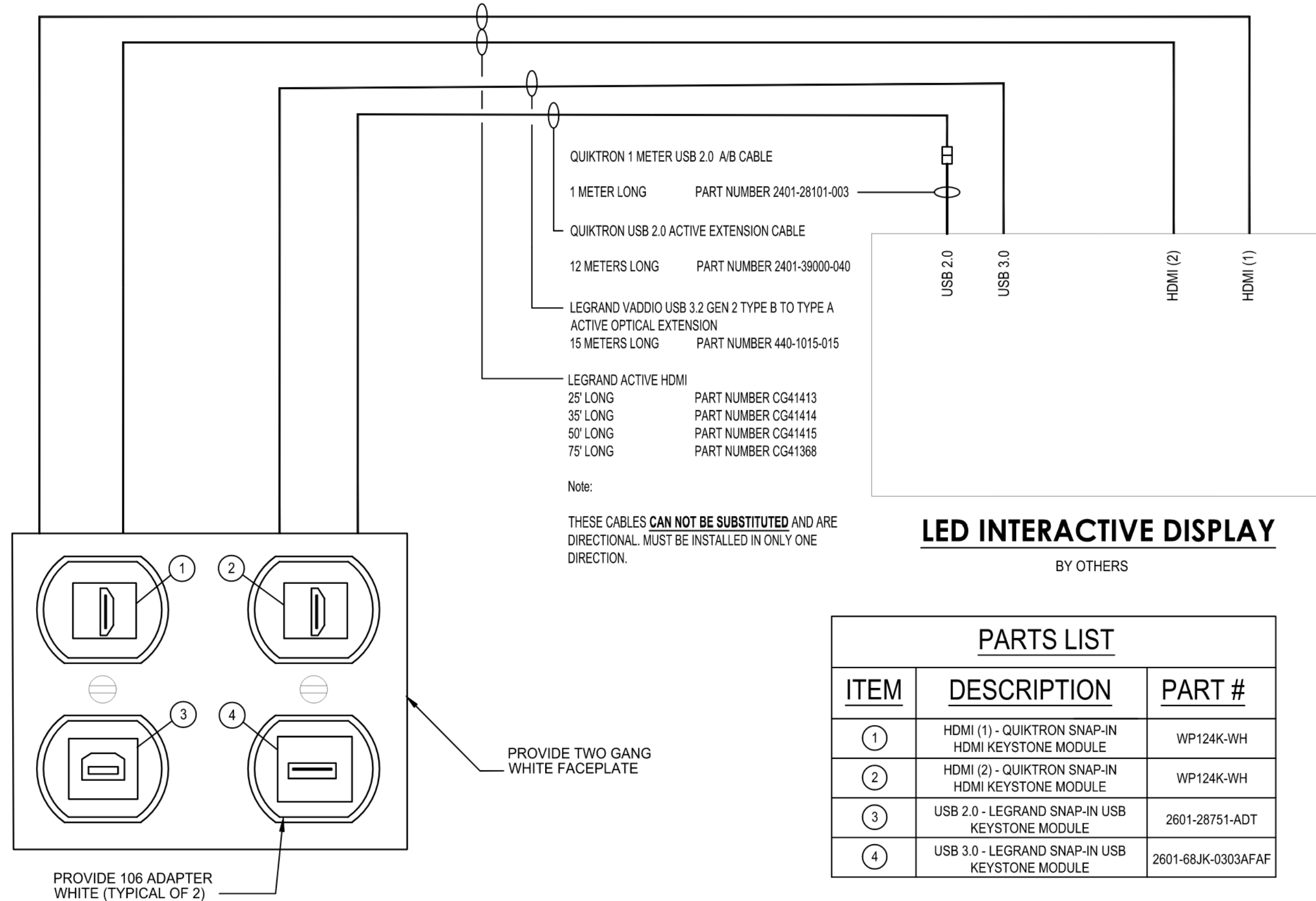
3 CEILING MOUNTED DATA DROP DETAIL
T902 NTS

NOTES

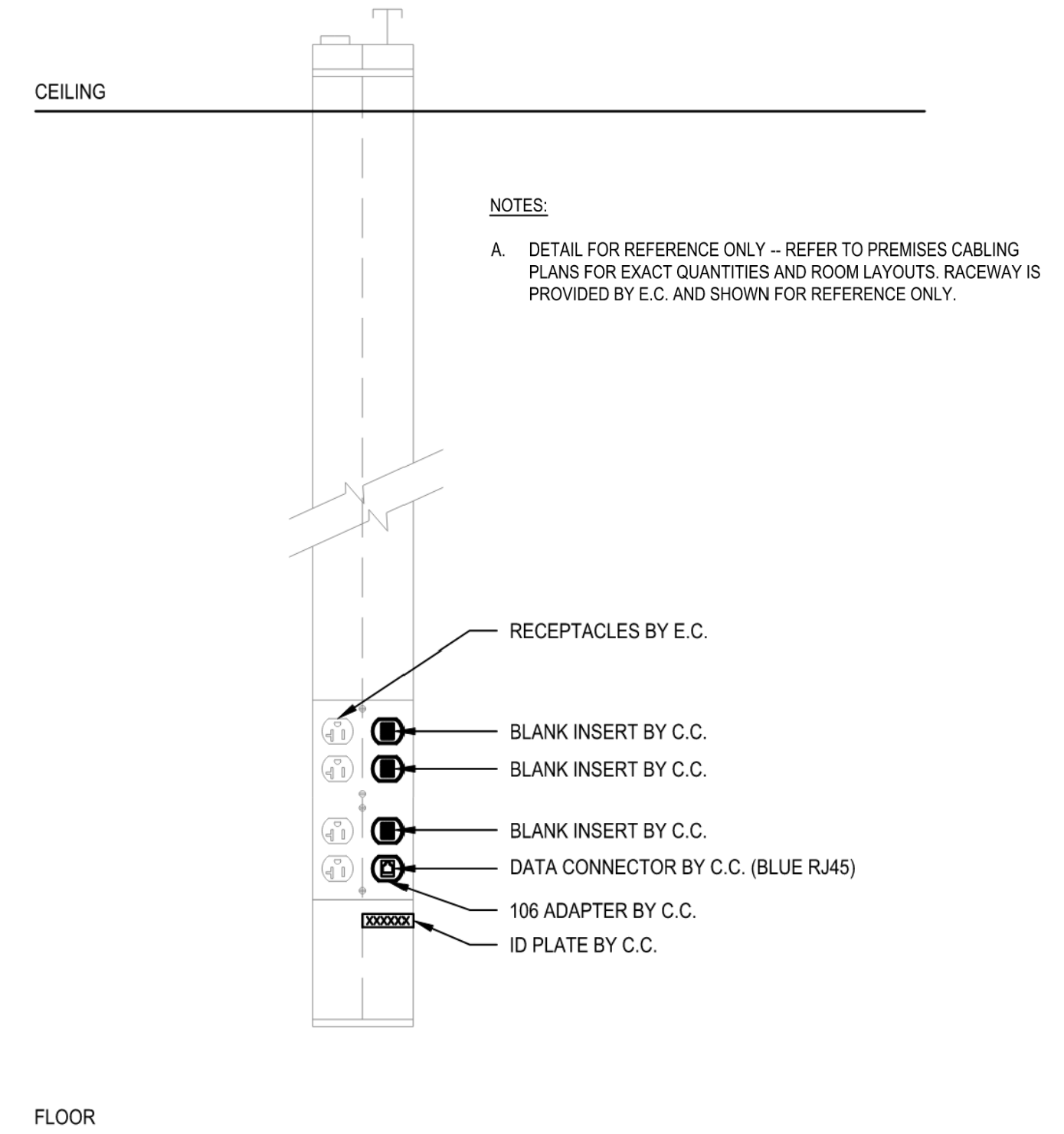
- A. REFER TO 5/ T201 FOR MULTI-MEDIA CABLING REQUIREMENTS.
- B. EXTEND 4-5 FEET OF AVP-1 CABLE THRU THE WALL PLATE. COIL ALL OTHER EXTRA CABLE ABOVE THE CEILING IN JARROCK ON WALL ABOVE THE LED BOARD LOCATION. DO NOT LAY CABLING ON CEILING TILE.



4 INTERACTIVE LED BOARD NEW WALL CONSTRUCTION DETAIL
T902 NTS



5 AVP-1 CABLING DIAGRAM
T902 NTS



6 VERTICAL V4000 RACEWAY DETAIL
T902 NTS

FIRE ALARM SYSTEM NOTES

1. ALL WIRING, POWER, CONDUCTORS, CONDUITS ETC. SHALL MEET THE 2014 NATIONAL ELECTRICAL CODE AND 2013 NFPA 72.

2. ALL FIRE ALARM CIRCUITS SHALL BE SIZED TO A MAXIMUM OF 80% OF CAPACITY.

3. ALL FIRE ALARM CIRCUITS SHALL BE WIRED NFPA STYLE 4-Y/9 (CLASS B) WITH THE EXCEPTION OF THE NETWORK CIRCUIT WHICH SHALL BE NFPA STYLE 7 (CLASS A WITH ISOLATION). DUAL CLASS B NETWORKING IS NOT STYLE 7 AND WILL NOT BE APPROVED. ALL AUDIBLE AND VISUAL CIRCUITS SHALL BE STYLE Y/CLASS B.

4. CONDUITS MAY NOT ENTER THE TOP OF ANY FIRE ALARM EQUIPMENT CABINET.

5. ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED WITH AESTHETICS IN MIND. CABINETS SHALL BE SEMI FLUSH MOUNTED AND CABLE TRAYS SHALL BE HIDDEN.

6. ALL FIRE ALARM CABINETS AND JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED. ALL FIRE ALARM CABINETS SHALL BE CLEARLY LABELED WITH A LAMINATE ENGRAVED LABEL.

7. ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. ALL TERMINALS SHALL BE NUMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS OR SCOTCH LOCKS.

8. ALL LOW VOLTAGE FIRE ALARM CONDUCTORS SHALL BE PROTECTED BY EITHER BUILDING CONSTRUCTION OR CONDUIT TO 8 FEET ABOVE THE FINISHED FLOOR. LOADING DOCKS, GARAGES, SUPPRESSION AND EXTINGUISHING SYSTEM WIRING, MECHANICAL AND ELECTRICAL ROOMS AND OTHER LOCATIONS SUBJECT TO MECHANICAL DAMAGE SHALL BE IN FULL RIGID CONDUIT. IN ALL OTHER AREAS, 2-HOUR RATED FIRE ALARM WIRE MAY BE RUN WITHOUT CONDUIT ABOVE 8 FT.

9. FIRE ALARM CABLES SHALL NOT BE MIXED WITH NON FIRE ALARM CABLING. LOW VOLTAGE FIRE ALARM CABLING SHALL NOT BE MIXED OR WIRED NEAR ANY AC CIRCUIT.

10. ALL LOW VOLTAGE WIRING SHALL BE FPLP 150 DEGREE C UL LISTED FIRE ALARM WIRE. ALL NOTIFICATION CIRCUITS SHALL BE A MINIMUM OF 14 AWG AND ALL OTHER LOW VOLTAGE FIRE ALARM CIRCUITS SHALL BE 16 AWG MINIMUM.

11. POLARITY SHALL BE OBSERVED ON ALL CIRCUITS. T-TAPPING SHALL NOT BE ALLOWED ON ANY NOTIFICATION CIRCUITS (HORN, STROBE OR SPEAKER). T-TAPPING SHALL NOT BE PERMITTED ON ADDRESSABLE CIRCUITS WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER.

12. ALL WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS.

13. SHIELDED CONDUCTORS OR RUNNING IN SEPARATE RACEWAY SHALL BE AS INSTRUCTED BY THE FIRE ALARM MANUFACTURER'S DOCUMENTATION. ALL NON-POWER LIMITED WIRING, INCLUDING CIRCUITS FOR CENTRALIZED AMPLIFIERS SHALL BE RUN IN A SEPARATE RACEWAY (NOTE: CENTRALIZED AMPLIFIERS, ARE NOT PERMITTED ON NEW SYSTEMS).

14. A CENTRAL STATION DIALER AND TWO DEDICATED PHONE LINES SHALL BE PROVIDED. THE DIALER SHALL BE CAPABLE OF SENDING THE FOLLOWING EVENTS: ALARM, MANUAL STATION, WATERFLOW, SUPERVISORY, CARBON MONOXIDE, TROUBLE, PUMP RUNNING AND PUMP TROUBLE.

15. ALL AREA OR DUCT SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC TYPE.

16. SMOKE DETECTORS MUST BE MOUNTED AT LEAST 3 FT AWAY FROM ANY AIR REGISTER.

17. ALL CEILING MOUNT DEVICES MUST BE SECURELY FASTENED TO BUILDING CONSTRUCTION.

18. DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.

19. DUCT MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON THE DUCTWORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. ALL DUCT DETECTORS SHALL BE PROVIDED WITH A REMOTE LED.

20. MANUAL PULL STATIONS SHALL BE MOUNTED 48 INCHES ABOVE THE FINISHED FLOOR TO THE HANDLE OF THE STATION AND SHALL BE PAINTED FIRE DEPARTMENT RED. ALL MANUAL STATION SHALL BE INSTALLED SO THAT THEY ARE KEPT UN-OBSTRICTED AT ALL TIMES.

21. ALL STROBE LIGHTS SHALL BE UL-1971 APPROVED/LISTED. THE MINIMUM CANDELA IS 30 UNLESS OTHERWISE NOTED.

22. NOTIFICATION DEVICES THAT INCLUDE A STROBE SHALL BE MOUNTED 80 INCHES OFF THE FINISHED FLOOR TO THE BOTTOM OF THE STROBE, NOT NECESSARILY THE ELECTRICAL BOX.

23. ALL AUXILIARY RELAYS FOR FAN SHUTDOWN, DOOR RELEASE, DAMPER CONTROL, ELEVATOR CONTROL, ETC SHALL BE WIRED A MAXIMUM OF 3 FT FROM THE CONTROLLED DEVICE. THE AUXILIARY RELAY SHALL FUNCTION WITHIN THE REQUIRED VOLTAGE AND CURRENT OF THE CONTROLLED DEVICE. SLAVE OR INTERPOSING RELAYS SHALL BE INCLUDED AND POWERED BY THE FIRE ALARM CONTROL PANEL IN A FAIL-SAFE (FIRE FUNCTION) POSITION. POWER TO THE INTERPOSING RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.

24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL ABANDONED FIRE ALARM CABINETS, DEVICES, AND WIRE. PAINT, PATCH AND CLEANUP SHALL ALSO BE INCLUDED.

25. FOR APPLICATIONS REQUIRING A FIRE ALARM SYSTEM REPLACEMENT (FCC, FACP, OR SCP, SSCP ETC), THE CONTRACTOR SHALL BE RESPONSIBLE FOR INTERFACING THE NEW SYSTEM WITH THE OLD SYSTEM SO THAT THEY ACT AS ONE. ONCE SYSTEM APPROVAL IS GRANTED, THE CONTRACTOR SHALL THEN BE RESPONSIBLE FOR REMOVING THE OLD SYSTEM INCLUDING REMOVING OLD WIRE AND CONDUIT, PATCH, PAINT, AND CLEANUP. FIRE WATCH, IF NECESSARY, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

26. CARBON MONOXIDE (CO) AND COMBINATION SMOKE AND CO DETECTORS SHALL BE FULLY ADDRESSABLE AND INCLUDE A SOUNDER BASE. MANUFACTURERS THAT DO NOT OFFER AN ADDRESSABLE CO OR SMOKE/CO TYPE DEVICE SHALL INCLUDE SEPARATE CO AND SMOKE DETECTORS, EACH WITH AN INTERNAL SYNCHRONIZED TEMPORAL 3 AND 4 SOUNDERS, AND THE NECESSARY MONITORING DEVICES SO THAT THE FIRE ALARM SYSTEM MAY MONITOR BOTH TYPES SEPARATELY. IF POWERED SEPARATELY (24VDC), POWER TO THE DEVICE SHALL ALSO BE SUPERVISED.

27. BOOSTER POWER SUPPLIES SHALL BE PROVIDED AS NECESSARY FOR STROBE CIRCUIT DRAW AND LENGTHY STROBE CIRCUIT RUNS. PROVIDE A SEPARATE 120V POWER FEED FOR EACH BOOSTER AS WELL AS A SMOKE DETECTOR MOUNTED DIRECTLY ABOVE IT.

28. ALL REMOTE FIRE ALARM CONTROL CABINETS (DATA GATHERING PANELS, TTBS ETC) SHALL INCLUDE AN INTERNAL TAMPER SWITCH. EACH SHALL ALSO INCLUDE A SMOKE DETECTOR MOUNTED ON THE CEILING DIRECTLY ABOVE IT SHOULD ONE OR MORE NOT ALREADY BE SHOWN ON THE PLANS IN THE ROOM THE PANEL IS MOUNTED IN.

29. REFER TO HVAC, FIRE PROTECTION, SECURITY AND FIRE ALARM FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL FIRE ALARM DEVICES.

30. CONTRACTOR'S RESPONSIBILITY TO SHOW ALL WIRING, ZONING, ETC... IN SHOP DRAWINGS. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWING FOR ELEVATIONS, SECTIONS, MOUNTING HEIGHTS AND DETAILS. AS WELL AS COMPLY WITH CODE.

31. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERABLE ADDRESSABLE, MULTIPLEXED FIRE ALARM SYSTEM COMPLETE WITH ALL REQUIRED REMOTE TRANSPONDERS, BATTERIES AND POWER SUPPLIES.

32. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TWO DAYS FOR FIRE DEPARTMENT ACCEPTANCE AND TWO DAYS FOR OWNER ACCEPTANCE FOR EACH PHASE OF THIS PROJECT (COORDINATE WITH CONSTRUCTION MANAGER).

33. SUBMIT COMPLETE SHOP DRAWINGS FOR THE SYSTEM, INCLUDING WIRING DIAGRAMS, CATALOG CUTS OF ALL DEVICES, AND SYSTEM RISER DIAGRAM, BATTERY CALCULATION.

34. ELECTRICAL CONTRACTOR SHALL PERFORM ALL NECESSARY FIRE DEPARTMENT FILING. WORK SHALL NOT BE CONSIDERED COMPLETE UNLESS ALL NECESSARY FILING, TESTS, AND INSPECTIONS ARE COMPLETED AND APPROVED.

35. ELECTRICAL CONTRACTOR SHALL FIRE STOP ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS AND SLABS.

36. PROVIDE A SIGN AT THE ENTRANCE TO THE BUILDING & ENTRANCE INDICATING THE LOCATION OF THE MAIN FIRE ALARM CONTROL PANEL.

37. COORDINATE LOCATIONS OF ALL DEVICES AND CONDUIT ROUTING WITH ARCHITECT PRIOR TO ANY WORK AND INSTALLATION.

38. ALL COMBINATION AUDIBLE/VISUAL ALARM UNITS AND VISUAL(STROBE UNITS) SHALL BE WALL MOUNTED AT NO HIGHER THAN 80" A.F.F.. ALL STROBE LIGHTS WITHIN A COMMON VISUAL ZONE SHALL BE SYNCHRONIZED. ALL MANUAL PULL STATIONS, BEAM DETECTORS, SOUNDING AND VISUAL ALARM DEVICES AND FIRE ALARM PANEL SHALL BE KEPT UNOBSTRUCTED ALL ALL TIMES.

39. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PROGRAMMING, WIRE AND DEVICES REQUIRED TO INTERFACE SPRINKLER, HVAC, ELEVATOR AND SECURITY SYSTEMS WITH ADDRESSABLE COMPONENTS OF THE FIRE ALARM SYSTEM.

40. PROVIDE QUANTITY OF ADDRESSABLE LOOPS REQUIRED TO NOT EXCEED THE NUMBER OF ADDRESSABLE DEVICES PER APPLICABLE CODE OR MANUFACTURER'S STANDARDS.

41. REFER TO ELECTRICAL DRAWINGS FOR POWER SUPPLY TO THE FIRE ALARM SYSTEM.

42. PROVIDE FINAL AS PER INSTALLATION WIRING DIAGRAM & INSTRUCTIONS OF THE FIRE ALARM SYSTEM MOUNTED SECURELY INSIDE THE FIRE ALARM CONTROL PANEL.

43. CONNECT TO GENERATOR (IF PRESENT) FOR STATUS MONITORING AND BATTERY STATUS.

44. CONTRACTOR TO REVIEW HVAC, SECURITY, AND OTHER CONSULTANT DRAWINGS, THESE INCLUDES BUT NOT LIMITED TO SMOKE DAMPERS, FIRE SMOKE DAMPERS, ELEVATOR CONTROLS, FIRE DOORS HARDWARE AND CONTROLS, MOTORIZED DOOR & WINDOWS, ETC.. THEY SHALL CONTROL AND RECEIVE STATUS INDICATION (OPEN & CLOSED) FOR EACH ASSOCIATED CONTROL CIRCUITS. INTERFACE WITH THE FIRE ALARM SYSTEM AS REQUIRED BY CODE AND PROVIDE RELAYS/CONTROL MODULES FOR THE STARTING AND STOPPING OF ALL LIFE SAFETY RELATED SMOKE EXHAUST, SMOKE PURGE AND CONTROLLING FANS/MOTORS WITH EACH ASSOCIATED CONTROL WIRING.

45. PROVIDE 20A, 1P, 120V CIRCUIT TO ALL FIRE SMOKE DAMPERS FROM EMERGENCY SOURCE PANEL AND SHALL BE TIE-IN WITH FIRE ALARM SYSTEM. CONTRACTOR SHALL COORDINATE QUANTITY AND LOCATIONS OF ALL FIRE SMOKE DAMPERS (FSD's) WITH HVAC DRAWINGS. REFER TO ELECTRICAL DRAWING FOR FSD's CIRCUITRY. THE CONTRACTOR SHALL REVIEW HVAC DRAWINGS AND SCHEDULES FOR ALL DUCT SIZES. IF DUCT SIZE REQUIRES MORE THAN ONE DETECTORS OR LONGER SAMPLING TUBE, THEY SHALL PROVIDE ADDITIONAL DEVICES OR LONGER SAMPLING TUBES TO SATISFY NFPA AND BUILDING CODE REQUIREMENTS. THIS SHALL BE PROVIDED AS PART OF BASE BID FOR A COMPLETE CODE COMPLIANT SYSTEM.

46. ALL OUTDOOR FIRE ALARM DEVICES SHALL BE WEATHERPROOF TYPE.

47. ALL FIRE ALARM EQUIPMENT SHALL BE KEPT UNOBSTRUCTED ALL TIMES.

48. ALL FIRE ALARM CABLING SHALL BE 2 HOUR FIRE RATED.

FIRE ALARM SEQUENCE OF OPERATION

- A. ACTIVATION OF A MANUAL PULL STATION WILL DO THE FOLLOWING:

a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.

b. SHUTDOWN ALL FANS GREATER THAN 1000 C.F.M. AND CLOSE ASSOCIATED FIRE SMOKE DAMPERS AND SMOKE DAMPERS.

c. ACTIVATE HORN AND STROBES.

d. SOUND AN AUDIBLE ALARM TONE WITHIN ZONE CONTAINING INITIATING FIRE ALARM SIGNAL.

e. SEND A PULL STATION ALARM SIGNAL TO CENTRAL OFFICE.

B. ACTIVATION OF AN AREA SMOKE DETECTOR OR DUCT DETECTOR WILL DO THE FOLLOWING:

a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.

b. SHUTDOWN ALL FANS GREATER THAN 1000 C.F.M. AND CLOSE ASSOCIATED FIRE SMOKE DAMPERS AND SMOKE DAMPERS.

c. ACTIVATE HORN AND STROBES.

d. SOUND AN AUDIBLE ALARM TONE WITHIN ZONE CONTAINING INITIATING FIRE ALARM SIGNAL.

e. SEND A SMOKE ALARM SIGNAL TO CENTRAL OFFICE.

f. SEND SIGNAL TO BMS SYSTEM TO BEGIN SMOKE EXHAUST SEQUENCE.

g. OPERATE ALL DOOR RELEASES AT EGRESS DOORS.

C. ACTIVATION OF A WATERFLOW SWITCH WILL DO THE FOLLOWING:

a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.

b. SHUTDOWN ALL FANS GREATER THAN 1000 C.F.M. AND CLOSE ASSOCIATED FIRE SMOKE DAMPERS AND SMOKE DAMPERS.

c. ACTIVATE HORN AND STROBES.

d. SOUND AN AUDIBLE ALARM TONE WITHIN ZONE CONTAINING INITIATING FIRE ALARM SIGNAL.

e. SEND A WATERFLOW ALARM SIGNAL TO CENTRAL OFFICE.

f. OPERATE ALL DOOR RELEASES AT EGRESS DOORS.

D. ACTIVATION OF A TAMPER SWITCH WILL DO THE FOLLOWING:

a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.

b. SEND A SUPERVISORY SIGNAL TO CENTRAL OFFICE.

E. OPERATION OF A KITCHEN HOOD EXHAUST SYSTEM MONITORING DEVICE WILL DO THE FOLLOWING:

a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.

b. ACTIVATE AUDIBLE ALARM TONE WITHIN ZONE CONTAINING INITIATING FIRE ALARM SIGNAL.

c. SEND A SMOKE ALARM SIGNAL TO CENTRAL OFFICE.

d. SEND SIGNAL TO BMS SYSTEM AND/OR KITCHEN HOOD CONTROL PANEL TO BEGIN SMOKE EXHAUST SEQUENCE.

e. OPERATE ALL DOOR RELEASES AT EGRESS DOORS.

F. ACTIVATION OF A CARBON MONOXIDE DETECTOR WILL DO THE FOLLOWING:

a. INITIATE A DISTINCT CARBON MONOXIDE DETECTOR SUPERVISORY SIGNAL FOR CORRESPONDING DETECTOR ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.

b. ACTIVATE DISTINCT LOCAL CARBON MONOXIDE DETECTOR HORN/STROBE DEVICES FOR ASSOCIATED DETECTOR IN ALARM CONDITION.

c. ACTIVATE CARBON DETECTOR SOUND BASE (IF PRESENT).

d. SEND A DISTINCT CARBON MONOXIDE DETECTOR SUPERVISORY SIGNAL TO CENTRAL OFFICE.

G. A CARBON MONOXIDE DETECTOR IN A TROUBLE CONDITION WILL DO THE FOLLOWING:

a. INITIATE A DISTINCT CARBON MONOXIDE DETECTOR TROUBLE SIGNAL FOR CORRESPONDING DETECTOR ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.

b. SEND A DISTINCT CARBON MONOXIDE DETECTOR TROUBLE SIGNAL TO CENTRAL OFFICE.

GENERAL NOTES:

1. NEW FIRE ALARM DEVICES TO MATCH EXISTING FIRE ALARM DEVICES. COORDINATE REQUIREMENTS WITH FIRE ALARM VENDOR FOR BUILDING.

2. PROVIDE BOOSTERS, POWER EXTENDERS AND END OF LINE RESISTORS AS NEEDED.

3. REMOTE POWER SUPPLIES SHOULD BE ACCESSIBLE AND LOCATED IN ELECTRICAL ROOMS OR CLOSETS.

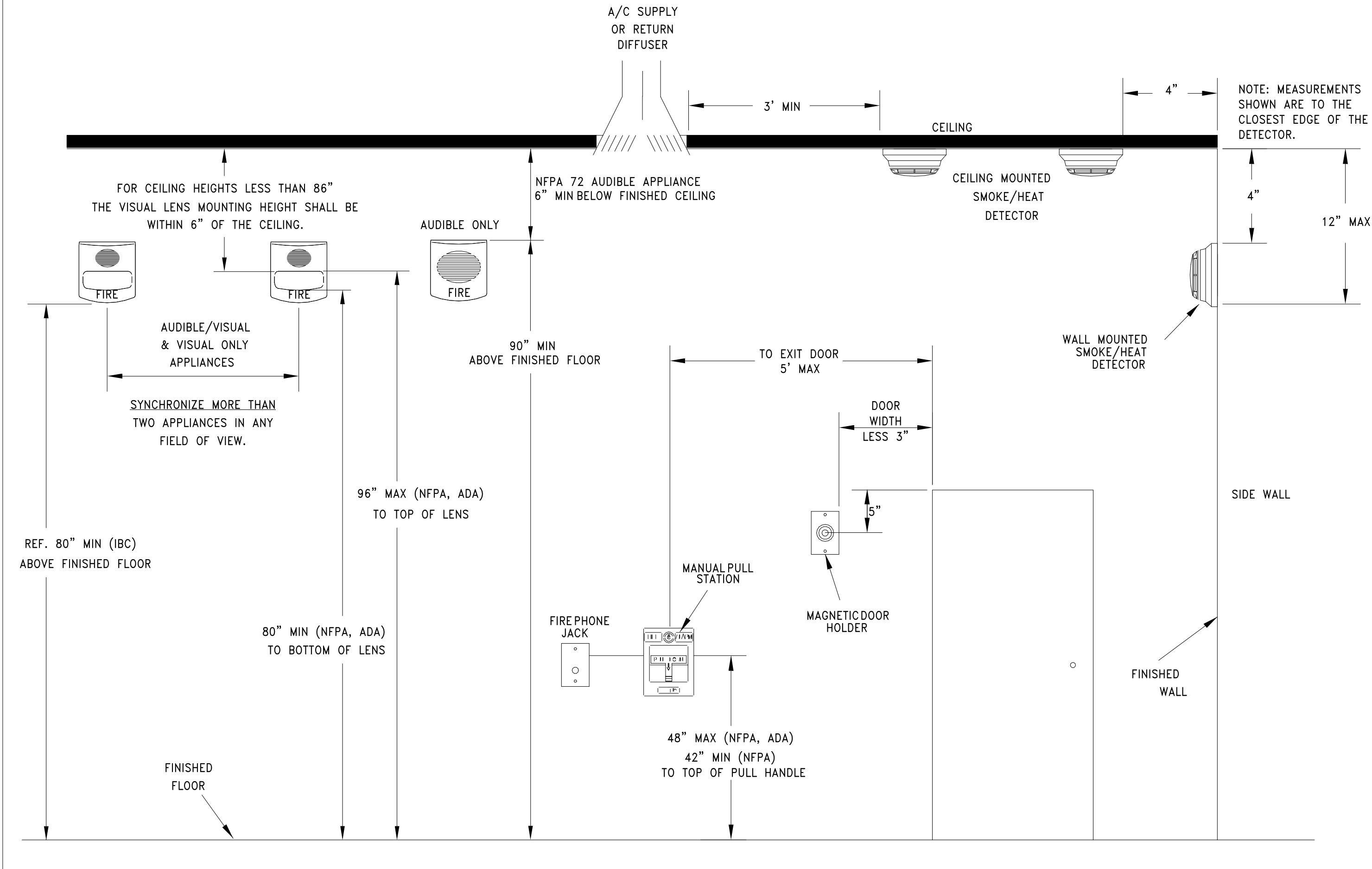
4. REFER TO POWER DRAWINGS FOR POWER CONNECTION TO FIRE ALARM PANELS AND EQUIPMENT.

5. FIRE ALARM RISER DIAGRAM ONLY INDICATES QUANTITIES OF NEW AND/OR RELOCATED FIRE ALARM DEVICES EFFECTED AS PART OF THIS SCOPE OF WORK. EXISTING TO REMAIN DEVICES SHOWN ONLY FOR REFERENCE PURPOSES.

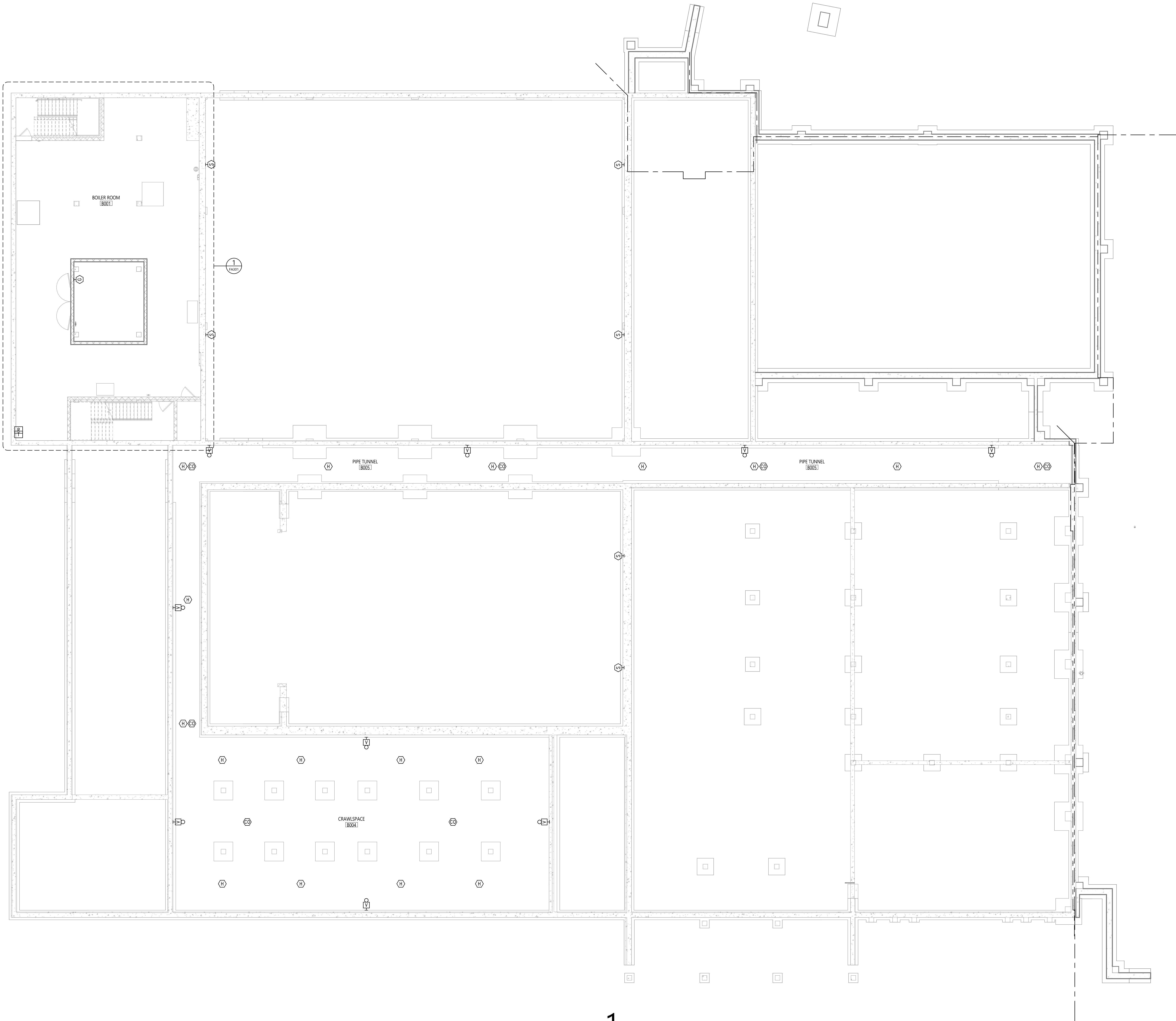
FIRE ALARM

	SMOKE DETECTOR, CEILING MOUNTED, SUBSCRIPT DENOTES: E – ELEVATOR RECALL BR – BEAM DETECTOR (RECEIVER) BT – BEAM DETECTOR (TRANSMITTER) CO – COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
	SMOKE DETECTOR, WALL MOUNTED
	HEAT DETECTOR, CEILING MOUNTED
	HEAT DETECTOR, WALL MOUNTED
	CARBON MONOXIDE DETECTOR, CEILING MOUNTED
	CARBON MONOXIDE DETECTOR WITH SOUNDER BASE, WALL MOUNTED
	GAS DETECTOR, CEILING MOUNTED
	GAS DETECTOR WITH SOUNDER BASE, WALL MOUNTED
	FIRE ALARM STROBE, WALL MOUNTED, SUBSCRIPT DENOTES: # – CANDELA RATING WG – WIRE GUARD WP – WEATHER PROOF CO – REMOTE STROBE FOR CO DETECTOR
	FIRE ALARM STROBE, CEILING MOUNTED
	FIRE ALARM COMBINATION SPEAKER/STROBE, WALL MOUNTED
	FIRE ALARM COMBINATION SPEAKER/STROBE, CEILING MOUNTED
	FIRE ALARM COMBINATION HORN/STROBE, WALL MOUNTED
	FIRE ALARM COMBINATION HORN/STROBE, CEILING MOUNTED
	FIRE ALARM SPEAKER, WALL MOUNTED
	FIRE ALARM SPEAKER, CEILING MOUNTED
	FIRE ALARM HORN, WALL MOUNTED
	FIRE ALARM HORN, CEILING MOUNTED
	BELL, WALL MOUNTED
	MANUAL PULL STATION
	SPRINKLER WATER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	FIRE ALARM RELAY
	FIRE ALARM SHUTDOWN RELAY
	DOOR HOLDER
	AREA OF REFUGE
	FIRE/SMOKE DAMPER
	SMOKE DAMPER
	DUCT SMOKE DETECTOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM DATA GATHERING PANEL
	AREA OF REFUGE CENTRAL COMMUNICATION
	EMERGENCY COMMUNICATIONS PANEL
	EMERGENCY VOICE COMMUNICATIONS PANEL
	MASS NOTIFICATION SYSTEM PUSH-BUTTON

FIRE ALARM DEVICE MOUNTING HEIGHT REFERENCE (PER NFPA 72)



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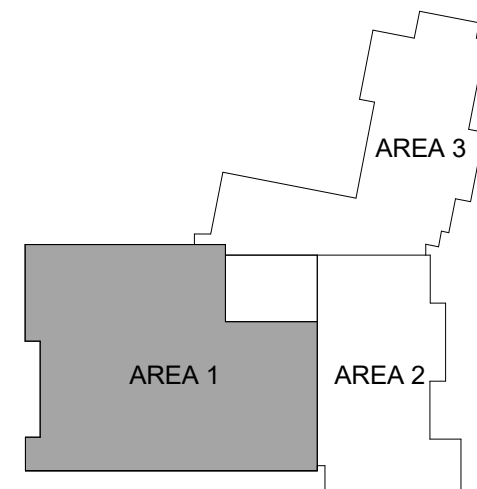
1 OVERALL BASEMENT FIRE ALARM PLAN
FA101 1/8" = 1'-0"

SHEET NOTES

- A. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- B. CANDELA RATING OF VISUAL NOTIFICATION DEVICES SHALL BE SET TO 15CD UNLESS OTHERWISE NOTED.
- C. PROVIDE A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM MEETING ALL CODE REQUIREMENTS.

KEY NOTES

KEY PLAN



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BINGHAMTON CITY SCHOOL DISTRICT
THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title



REV.	DATE	DESCRIPTION

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Proj. #: 03-02-00-01-0-010-014
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Sheet Title

OVERALL
BASEMENT
FIRE ALARM
PLAN

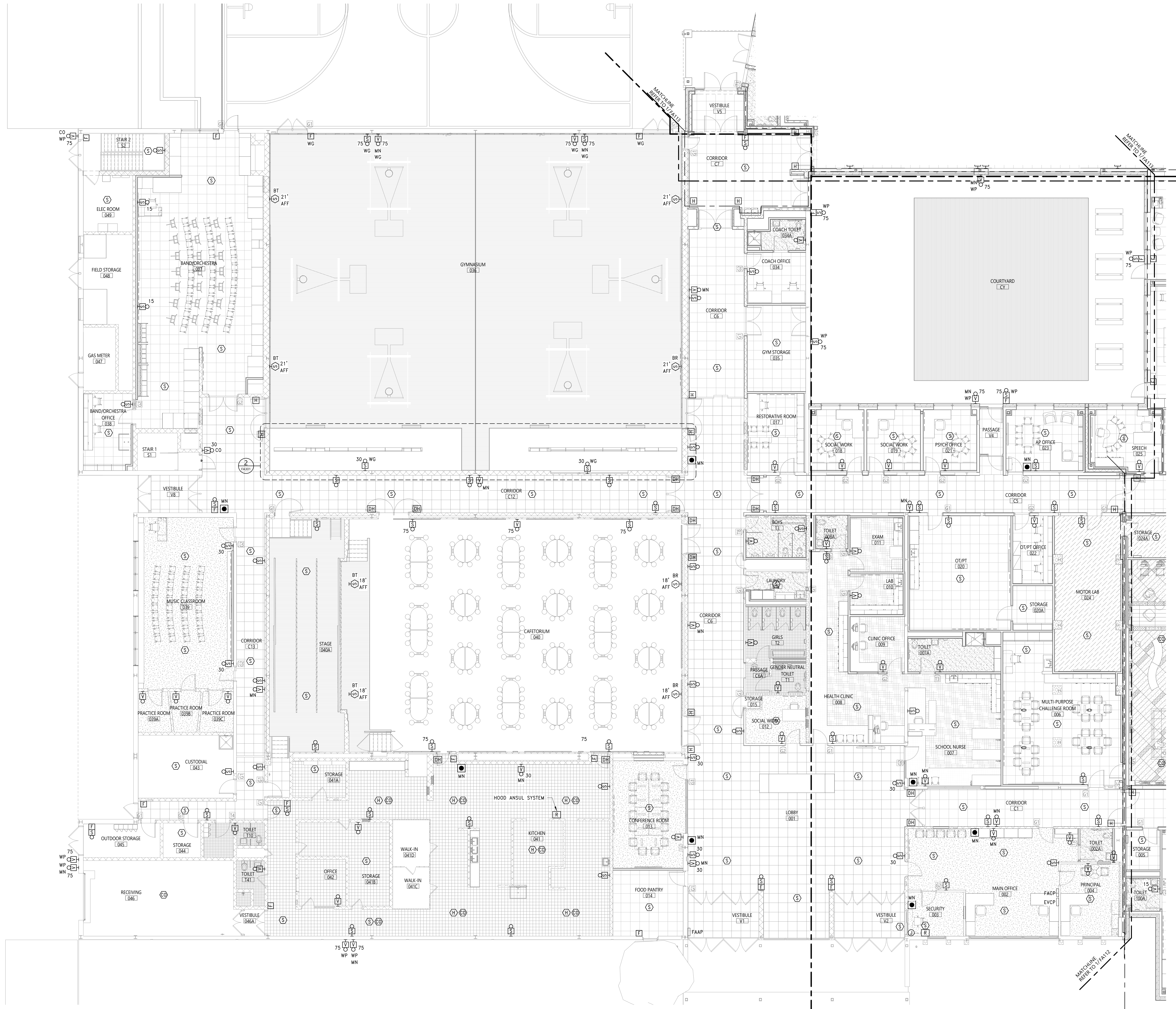
Sheet No.

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FA101

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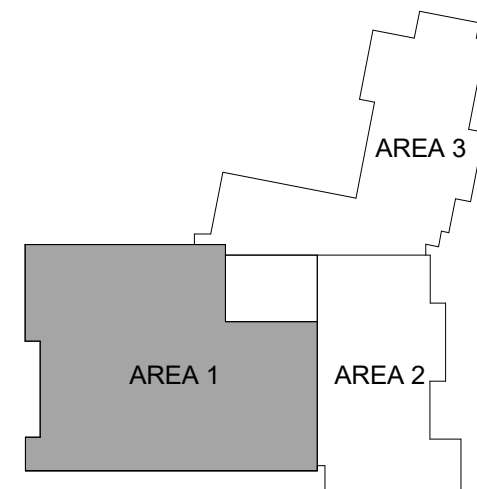
1 FIRST FLOOR FIRE ALARM PLAN - AREA '1'
FA111 1/8" = 1'-0"

SHEET NOTES

- A. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- B. CANDELA RATING OF VISUAL NOTIFICATION DEVICES SHALL BE SET TO 15CD UNLESS OTHERWISE NOTED.
- C. PROVIDE A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM MEETING ALL CODE REQUIREMENTS.

KEY NOTES

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2024 CAPITAL PROJECT**

Project Title



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CSArch Proj. #: 215-2402
Issued for Bid: 03/12/2026

Sheet Title

**FIRST FLOOR
FIRE ALARM
PLAN - AREA
'1'**

Sheet No.

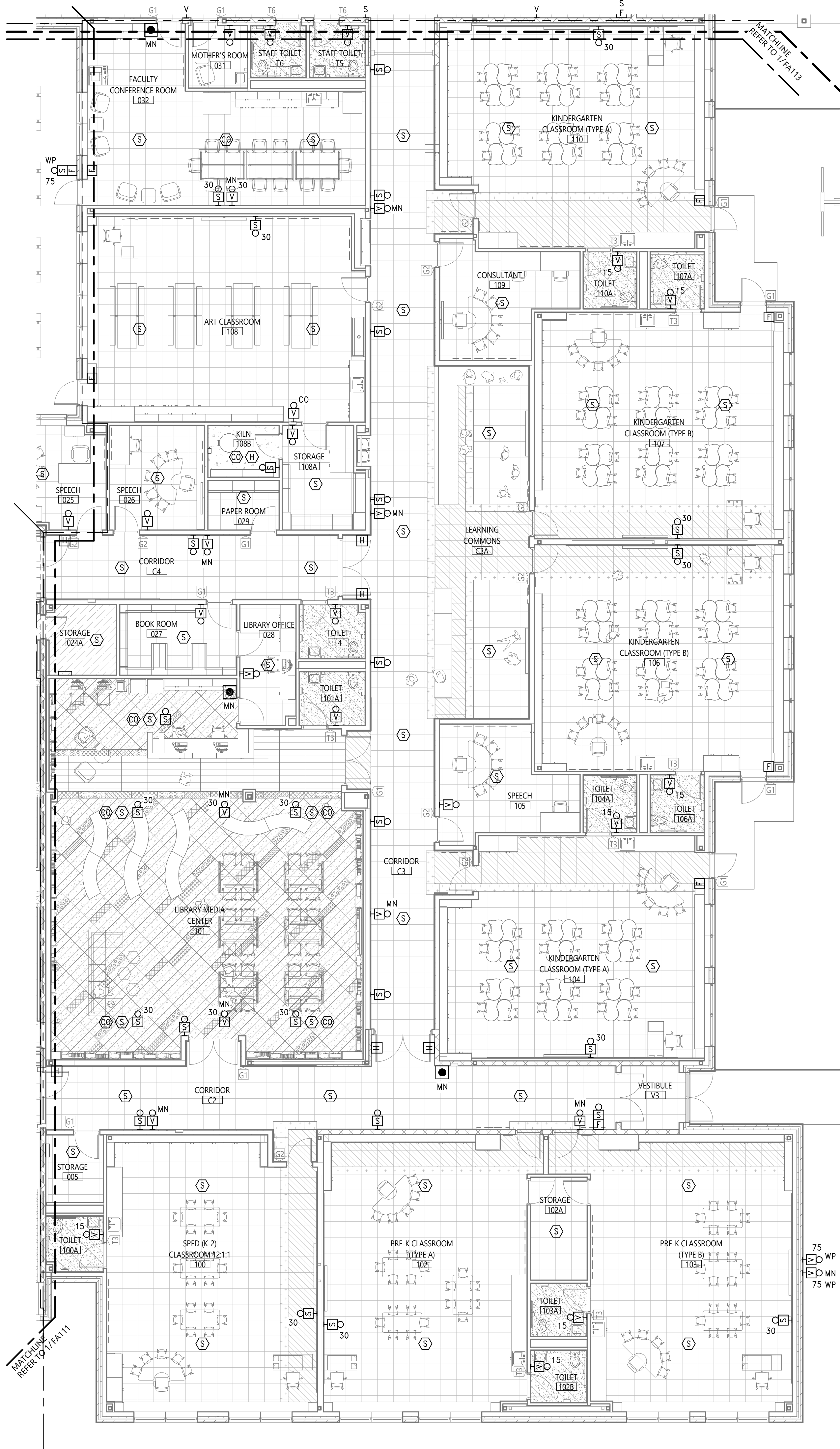
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FA111**

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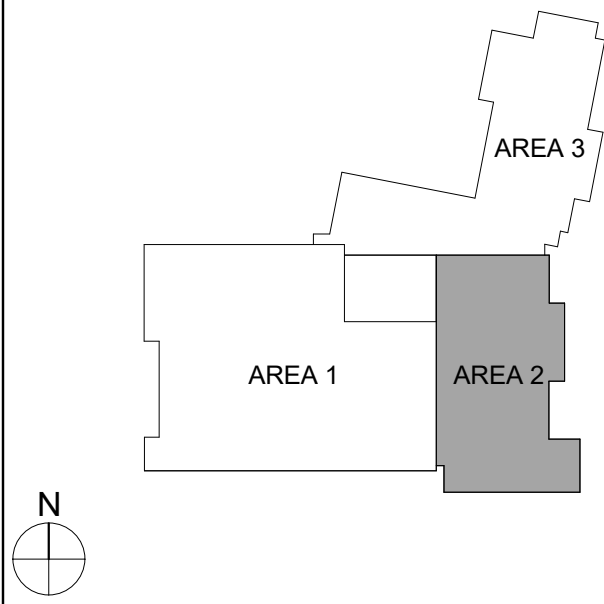
1 FIRST FLOOR FIRE ALARM PLAN - AREA '2'
FA112 1/8" = 1'-0"



- SHEET NOTES**
- A. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- B. CANDELA RATING OF VISUAL NOTIFICATION DEVICES SHALL BE SET TO 15CD UNLESS OTHERWISE NOTED.
- C. PROVIDE A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM MEETING ALL CODE REQUIREMENTS.

KEY NOTES

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THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT**

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Sheet Title
**FIRST FLOOR
FIRE ALARM
PLAN - AREA
'2'**

Sheet No.
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FA112**

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1 FIRST FLOOR FIRE ALARM PLAN - AREA '3'
FA113 1/8" = 1'-0"

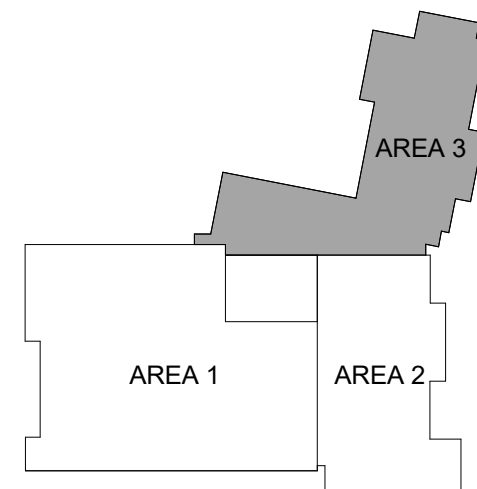


SHEET NOTES

- A. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- B. CANDELA RATING OF VISUAL NOTIFICATION DEVICES SHALL BE SET TO 15CD UNLESS OTHERWISE NOTED.
- C. PROVIDE A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM MEETING ALL CODE REQUIREMENTS.

KEY NOTES

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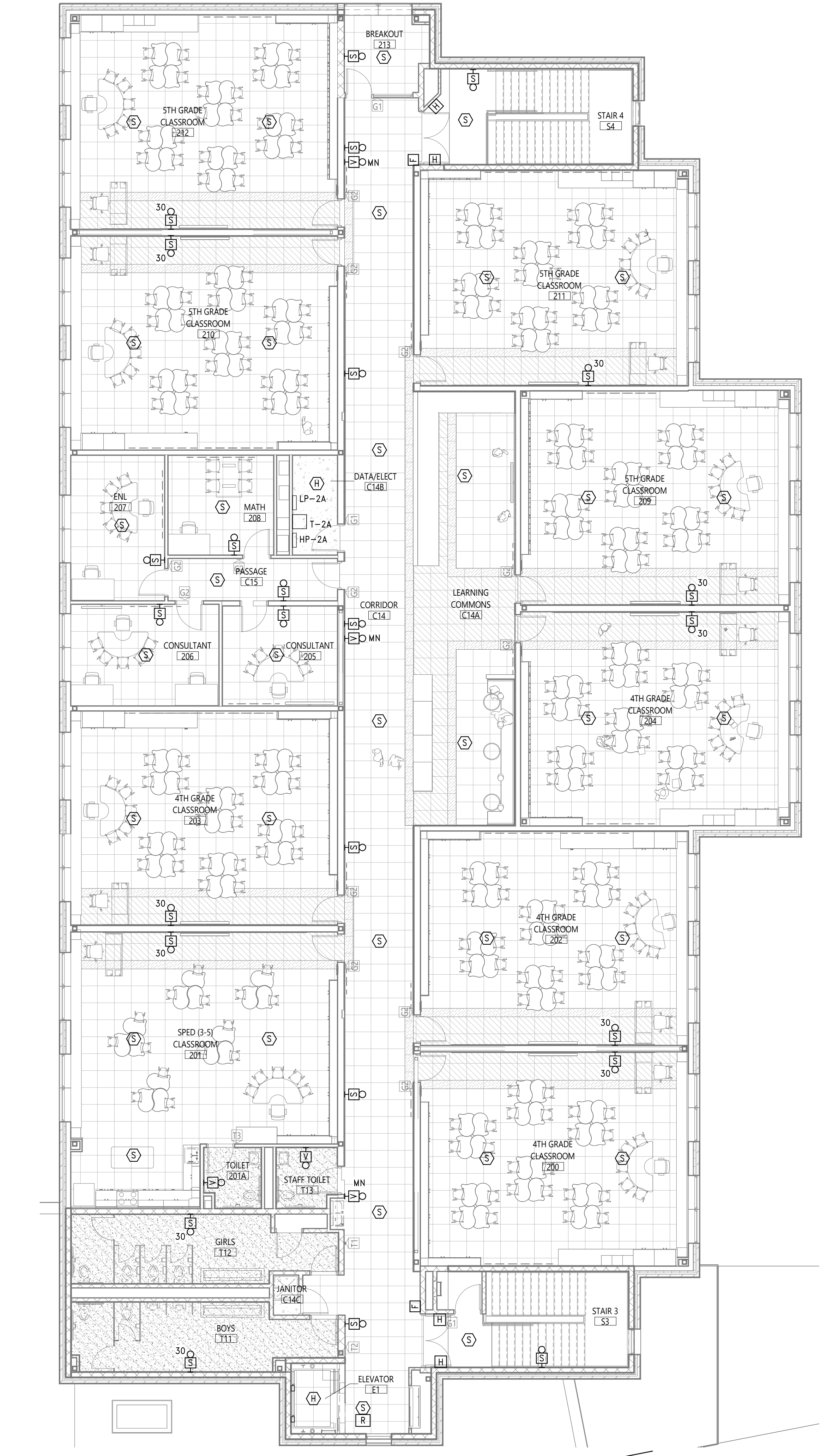
FIRST FLOOR
FIRE ALARM
PLAN - AREA
'3'

Sheet No.

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FA113

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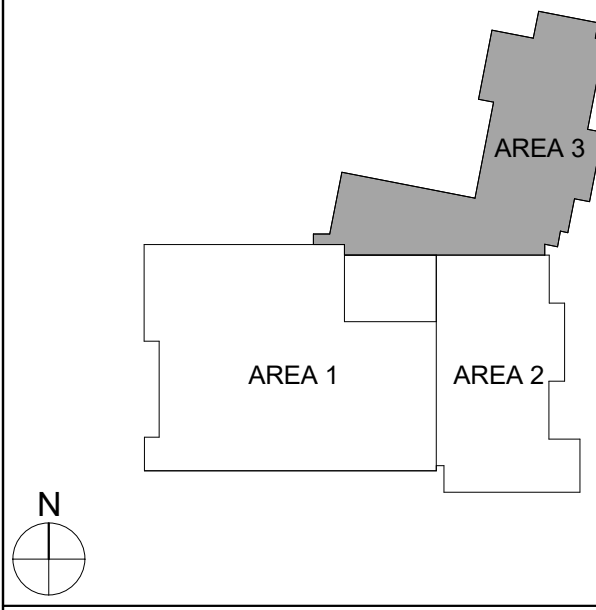


1 SECOND FLOOR FIRE ALARM PLAN - AREA '3'
FA123 1/8" = 1'-0"

- SHEET NOTES**
- A. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- B. CANDELA RATING OF VISUAL NOTIFICATION DEVICES SHALL BE SET TO 15CD UNLESS OTHERWISE NOTED.
- C. PROVIDE A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM MEETING ALL CODE REQUIREMENTS.

KEY NOTES

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**SECOND
FLOOR FIRE
ALARM PLAN -
AREA '3'**

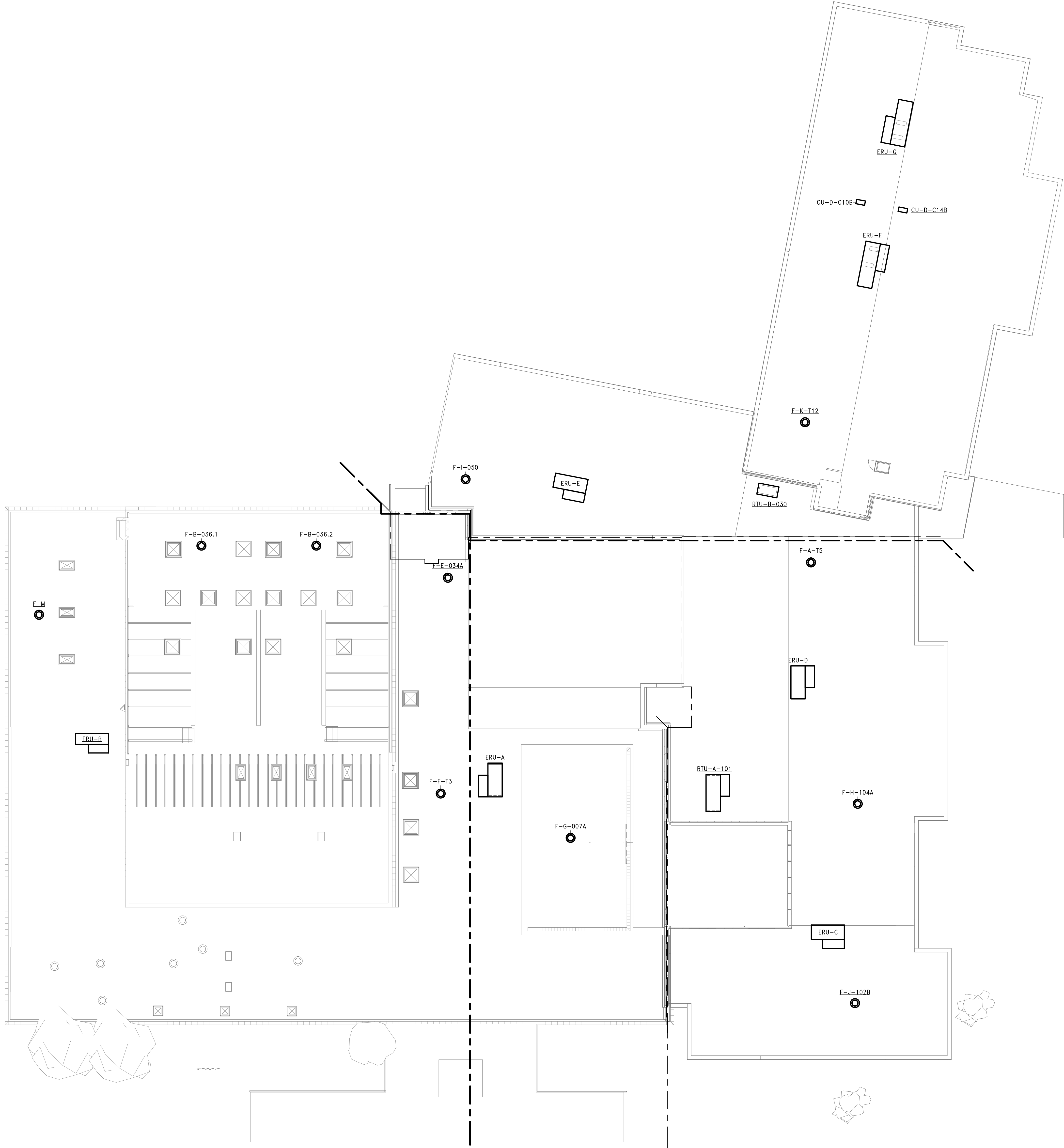
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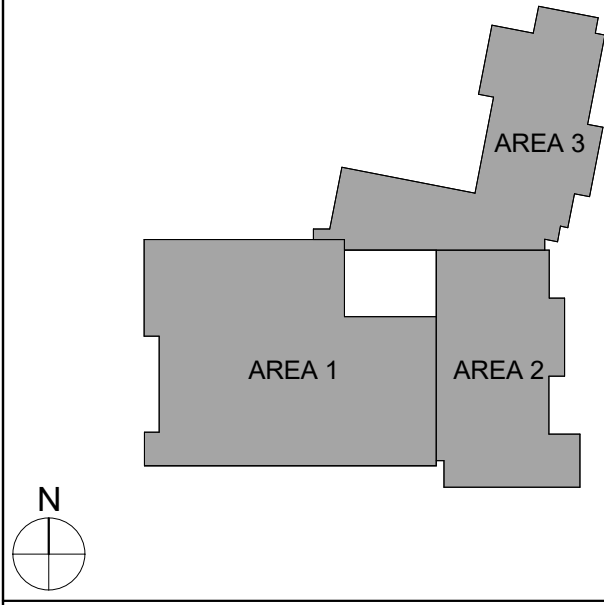
1 ROOF FIRE ALARM PLAN
FA130 1/16" = 1'-0"



- SHEET NOTES**
- A. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- B. CANDELA RATING OF VISUAL NOTIFICATION DEVICES SHALL BE SET TO 15CD UNLESS OTHERWISE NOTED.
- C. PROVIDE A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM MEETING ALL CODE REQUIREMENTS.

KEY NOTES

KEY PLAN



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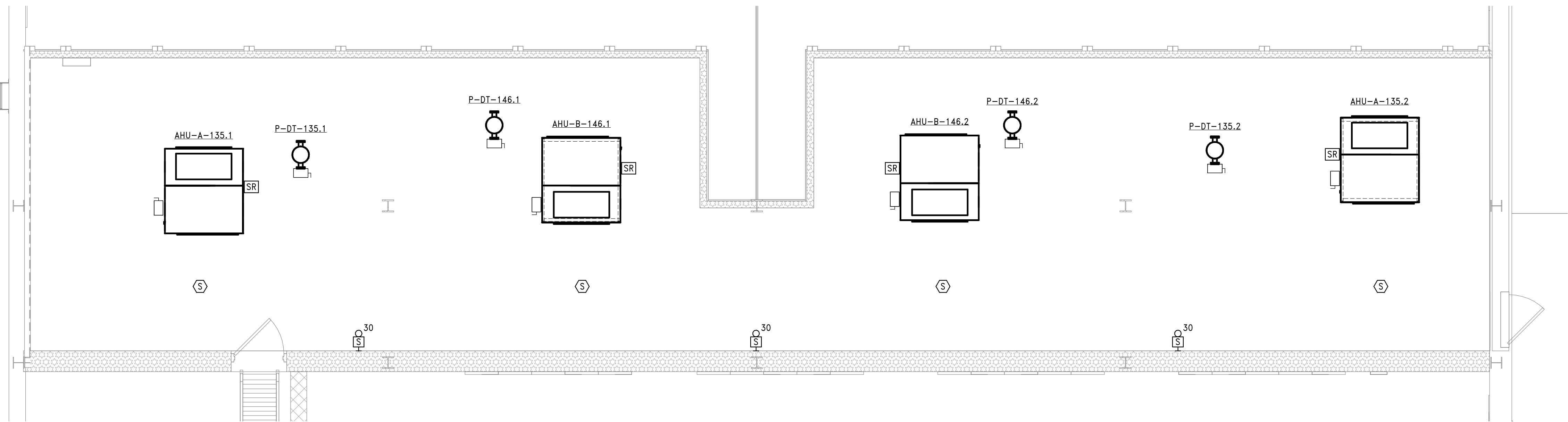
**ROOF FIRE
ALARM PLAN**

Sheet No.
**TR
FA130**

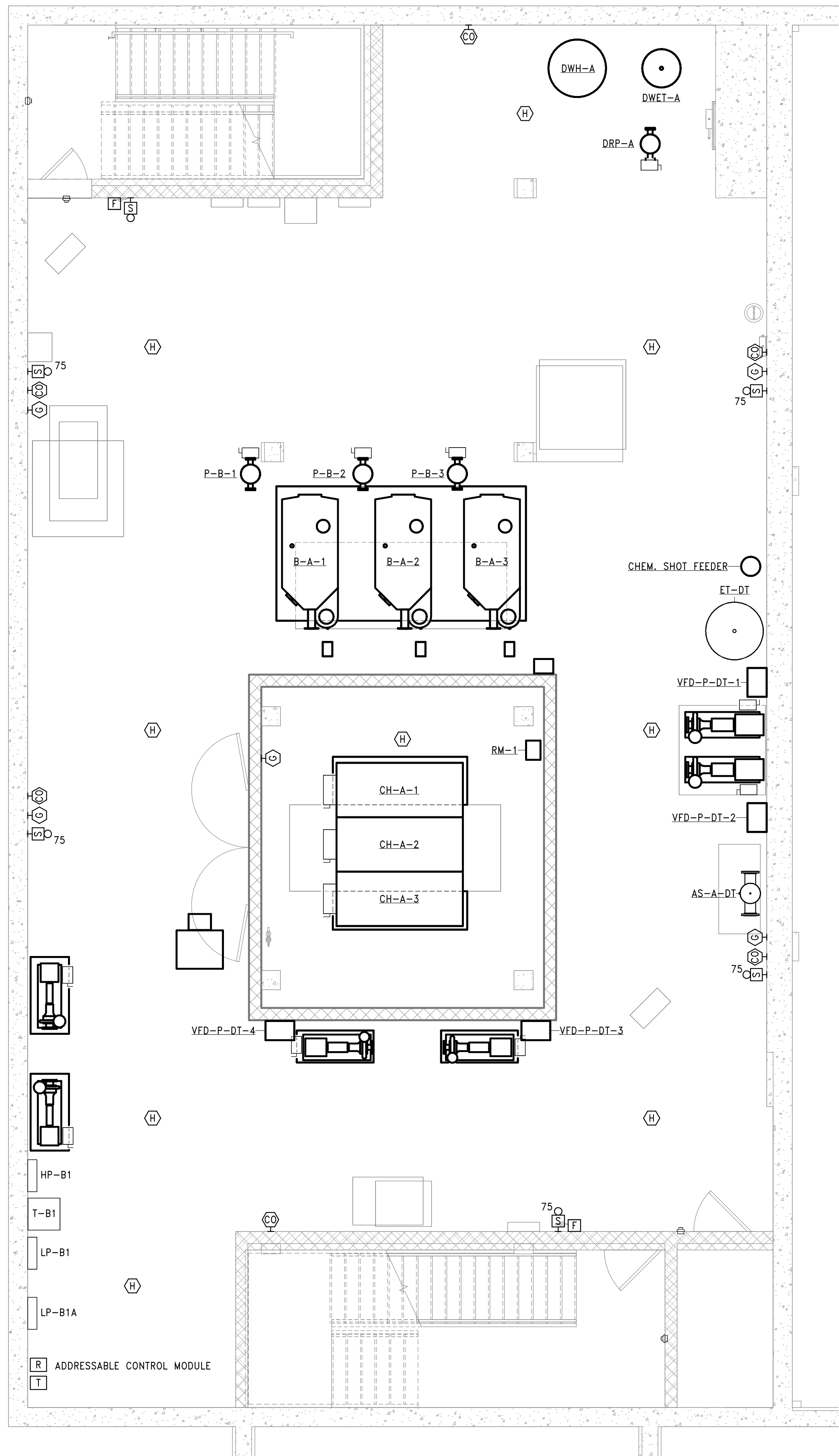
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2 FIRE ALARM MEZZANINE PLAN
FA301 1/4" = 1'-0"



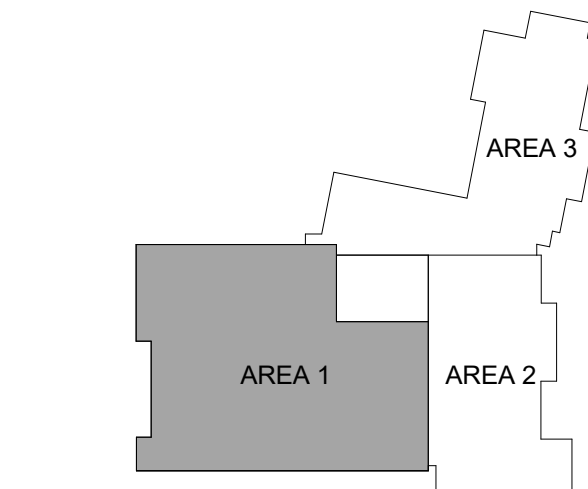
1 FIRE ALARM BOILER ROOM PLAN
FA301 1/4" = 1'-0"

SHEET NOTES

- ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.
- CANDELA RATING OF VISUAL NOTIFICATION DEVICES SHALL BE SET TO 15CD UNLESS OTHERWISE NOTED.
- PROVIDE A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM MEETING ALL CODE REQUIREMENTS.

KEY NOTES

KEY PLAN



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THEODORE ROOSEVELT ELEMENTARY SCHOOL
2024 CAPITAL PROJECT

Project Title



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FIRE ALARM
ENLARGED
PLANS

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