0" 1	ELECTRICAL SYMBOL LEGEND	GENE
	EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.	THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH SHALL BE REQUIRED TO PERFORM HIS WORK.
		2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS AND ADDENDA (DRAWINGS AND SPECIFICATIONS.) HE SHALL CHECK THE CONTRACT DOCUMENTS OF THE OTHER TRADES AND DETERMINE IN RESPONSIBILITIES. FAILURE TO DO SO. SHALL NOT RELEASE THE CONTRACTOR FROM COMPLETING ALL RESPONSIBLE WORK
(J) JUI	CIRCUIT RELATED: NCTION BOX	ACCORDANCE WITH THE CONTRACT DOCUMENTS. 3. THE CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION OF THE CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION OF THE CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION OF THE CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION OF THE CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION OF THE CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION OF THE COSTS
	COUNDING FIXTURE	AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCI 4. ALL ELECTRICAL WORK REFERENCED HEREIN SHALL BE COORDINATED WITH OTHER TRADES AND SITE CONDITIONS. ANY CO TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE CONTRACT
	LIGHTING:	DOCUMENTS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIE PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
LEI	D LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL,	 PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS, BRANCH CIRCUITS OR SIGNAL AND COMMUNICATIONS SYSTEMS BEING DISCONNECTED IN ORDER TO MAINTAIN SYSTEMS IN OPERATION. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER WHEN AN INTERRUPTION IS NECESSAR
L NU	MBER INDICATES CIRCUIT, CROSS HATCHING ÍNDICATES FIXTURE ON EMERGENCY SYSTEM, FOR SOLID RCLE WITHIN FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL	THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ENGINEER 14 DAYS PRIOR TO THE OUTAGE AND OVERTIME SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANEL BOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.
SH	IT LIGHT FIXTURE. LETTER INDICATES TYPE, NUMBER INDICATES CIRCUIT, NUMBER AND LOCATION OF ADED TRIANGLE SECTIONS INDICATE NUMBER OF EXIT SIGN FACES AND DIRECTION OF EACH FACE. OVIDE CHEVRON DIRECTIONAL INDICATORS AS SHOWN ON DRAWINGS	7. AFTER ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS HAVE BEEN FULLY COMPLETED. REPRESENTATIVES OF THE OWNERS WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCETANCE FROM EACH REPRESENTATIVE.
	CONTROL:	8. FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF PUNCH LIST COMPLETIC 9. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
Ψ	NUAL ON/OFF SWITCH	10. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONARY WALLS, GRADEBEA FLOORS OR STRUCTURAL STEEL MEMBER SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENING OF THE PARTICULAR WALL, FLOOR OR CEILING EXAC
10C	ALL BOX DIMMER SWITCH, "MARK" INDICATES WATTAGE IF OTHER THAN 600 ALL BOX DIMMER SWITCH WITH OCCUPANCY SENSOR	SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL. FLOOR OR CEILING EXAC METHOD AND LOCATION OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.
→ DU	AL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR	 11. FINAL CONNECTIONS TO VIBRATING EQUIPMENT AND AT SEISMIC SEPARATIONS SHALL BE FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS, AND LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS. 12. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE AND CONNECTION METHODS IN HVAC AIR-PLENUMS SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE.
	POWER OUTLETS:	13. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS A ADJACENT PIPING, ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
	A-125V DUPLEX RECEPTACLE A-125V FOURPLEX RECEPTACLE. SAME SYMBOLOGY AS DUPLEX RECEPTACLE	 14. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED WALLS, OR 24" MINIMUM BELOW SLAB ON GRADE UNLESS NOTED OTHERWISE. 15. LOCATE ELECTRICAL EQUIPMENT AND BOXES IN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR
LC1-X CIF	RCUIT DESIGNATION NEXT TO RECEPTACLE DEVICES INDICATES BRANCH CIRCUIT NUMBER. E PANEL SCHEDULES FOR INFORMATION.	INACCESSIBLE CEILING SYSTEMS. ACCESS DOORS SHALL BE A MINIMUM DIMENSION OF 24" x 24" ACCESS DOOR LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED. 16. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILING TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND
	EQUIPMENT:	PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
	NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR MADE TO CENTER LINE OF DEVICE	17. WHENEVER A DISCREPANCY OF ANY SYSTEM AND/OR EQUIPMENT ARISES ON THE CONTRACT DOCUMENTS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.
DIS 1 E ON	RADE TO CENTER LINE OF DEVICE SCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES AS INDICATED, "NF" INDICATES NON-FUSIBLE. NEMA INCLOSURE UNLESS OTHERWISE NOTED. PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED IN BUSWAY. ALL DISCONNECT SWITCHES SHALL BE 30/NF/3 UNLESS OTHERWISE NOTED NELBOARD	18. STRAIGHT FEEDER BRANCH CIRCUIT AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR INDICATED ON DRAWINGS. 19. PANEL SCHEDULES SHALL BE REVISED TO REFLECT FINAL ROOM NAMES AND NUMBERS USING OWNER'S ROOM NAMES AND
SW	/ITCHBOARD / DP	NUMBERS DESIGNATIONS. CONTRACTOR TO PROVIDE FINAL PANEL SCHEDULE TO EEOR AT COMPLETION OF PROJECT. 20. WHERE OUTLETS OCCUR AT TACKABLE WALL PANELS OR OTHER WALL FINISHES. PROVIDE EXTENSION RINGS AS REQUIRED
<u> </u>	ANSFORMER COUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN CEC ARTICLE 250	THAT NO SPACE WILL EXIST BETWEEN DEVICE PLATE AND BACKBOX PER CALIFORNIA ELECTRICAL CODE 314.20 SEE ARCHITECTURAL ELEVATIONS FOR WALL FINISHES AND LOCATIONS. 21. COORDINATE LOCATIONS OF ALL SEISMIC SEPARATIONS.
(E)	REMODEL:	
⊕ EQ (R)	UIPMENT WITH "E" ADJACENT IS EXISTING TO REMAIN. ISTING EQUIPMENT WITH "R" ADJACENT IS TO BE COMPLETELY DISCONNECTED AND REMOVED. ISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW CATION AND RECONNECTED AS REQUIRED.	UTILITY PENETRATIONS NOTE
•	UIPMENT WITH "ER" ADJACENT IS RELOCATED EQUIPMENT SHOWN IN NEW LOCATION. TAG INDICATES NEW EQUIPMENT.	UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED UL LISTED SYSTEM OR MATERIAL.
•	RCUIT DESIGNATION WITH PREFIX "(E)" DENOTES EXISTING CIRCUIT AND EQUIPMENT IS TO REMAIN.	STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILING, OR AREA SEPARATION UNLESS THEY:
		 OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER IN THIS CASE, ONLY ONE OUTLET BOX NEEDS TO BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION. OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF LINESPOTE CASE OF ANY SIZE SUCH THAT THE AGGREGATE CASE OF ANY SIZE SUCH THAT THE AGGREGATE CASE OF ANY SIZE SUCH THAT THE AGGREGATE
		UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED TO BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE FEET OF WALL.
		STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL. FIRESTOPPING MATERIAL:
		MPP-1 MOLDABLE PUTTY PADS 3M CONTRACTOR PRODUCTS FLAMESAFE FSP 1077 FIRESTOP PADS MINNEAPOLIS. INTERNATIONAL PROTECTIVE COATINGS
		MN 3M TEST REPORT NO. 1167 OAKHURST, NJ DATED AUGUST 21, 1987
		FSP FIRESTOP PUTTY PADS HEVI-DUTY NELSON PRODUCTS TULSA, OK
		STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENCASEMENT.
		UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.
		APPLICABLE CODES
		PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020 * 2022CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR * 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
		(2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
		2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
		(2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

GENERAL NOTES CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY LIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE LL BE REQUIRED TO PERFORM HIS WORK. IALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS AND ADDENDA WINGS AND SPECIFICATIONS.) HE SHALL CHECK THE CONTRACT DOCUMENTS OF THE OTHER TRADES AND DETERMINE HIS PONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM COMPLETING ALL RESPONSIBLE WORK IN ORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION

22. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF ALL LOW VOLTAGE / TECHNOLOGY SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. CABLING CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT.

23. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AS ESTABLISHED BY THE EIA AND THE CEC.

24. ALL AC POWER CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM TECHNOLOGY LOW VOLTAGE CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.

25. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES REQUIRED TO INSTALL COMMUNICATION CABLING THROUGH RATED WALLS. ALL TECHNOLOGY SYSTEM CONDUIT SLEEVES SHALL HAVE PROTECTIVE BUSHING ON BOTH ENDS, BE DEDICATED FOR TECHNOLOGY SYSTEMS ONLY AND SHALL NOT SHARE WITH OTHER BUILDING TRADES.

26. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.

27. ALL CONDUCTORS SHALL BE UL LISTED. COPPER #12 MINIMUM SIZE. TYPE THHN/THWN THERMOPLASTIC. 600 VOLT. 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY, UNLESS NOTED OTHERWISE.

28. ALL CABLING SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH MAXIMUM 40% CABLE FILL. MINIMUM CONDUIT SIZE SHALL BE 3/4" INTERIOR & 1" EXTERIOR.

29. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE

DRAWING INDEX

<u>SHEET</u> **DESCRIPTION** ELECTRICAL SYMBOLS, LEGENDS & GENERAL NOTES E0.00 E0.01 TITLE 24 FORMS E1.01 OVERALL SITE PLAN

ED3.02 ELECTRICAL DEMOLITION SECOND FLOOR RCP E2.01 ELECTRICAL FLOOR PLANS E2.02 ENLARGED FLOOR PLAN - SECOND FLOOR LIGHTING PLAN E3.01 ELECTRICAL ENLARGED PLANS

ELECTRICAL DEMOLITION ENLARGED PLANS

ELECTRICAL PANEL SCHEDULES & DETAILS

ED3.01

E5.01

B202301766

City of Ontario | Building Depa APPROVED & REVIEWED FOR CODE COMPLIANCE The issuance of a permit and approval of these plans shall not be construed to permit or approve any violation of the applicable codes or ordinances. Date: 01/16/2024 1:34:39 PM

DIAGRAMMATIC NOTE

DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE DETAILED CONDUIT ROUTING OR LENGTHS REQUIRED FOR COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS, CONTRACT DOCUMENTS AND SPECS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL AND/OR MECHANICAL ITEMS OR FEATURES. REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR DIMENSIONS.

DEVICE LOCATIONS NOTE

THE LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION, ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN UNLESS OTHERWISE NOTED. ELECTRICAL DEVICES SHALL BE MOUNTED PER "ACCESSIBLE DEVICE MOUNTING HEIGHT" DETAIL.

COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT, DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS.. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH

1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30: ALL PERMANENT EQUIPMENT AND COMPONENTS.

TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

MEP COMPONENT ANCHORAGE NOTES

TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR2013 CBC OR LATER). COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO START OF AND DURING THE HANGING AND BRACING OF DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

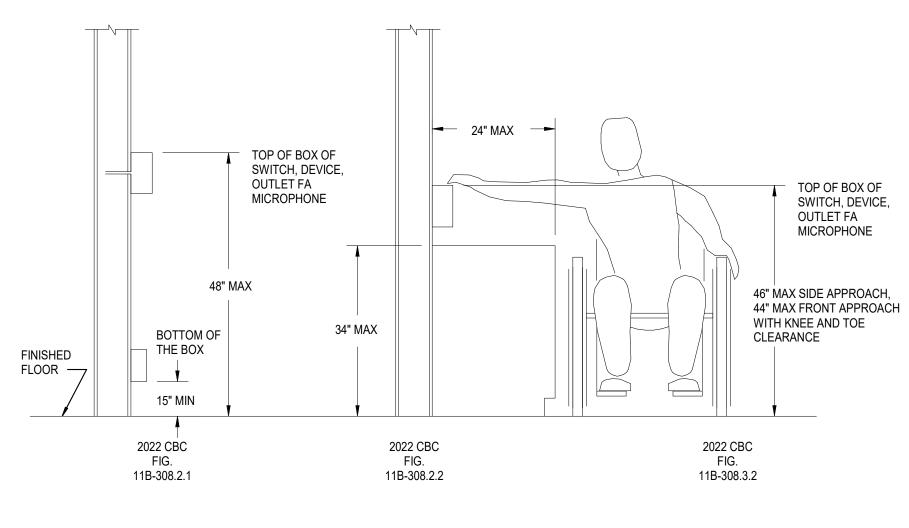
MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____

MP ☐ MD ☐ PP ☐ E ☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES & DETAILS.

STRUCTURAL NOTE

UNLESS SPECIFICALLY SHOWN ON THESE PLANS, STRUCTURAL MEMBERS SHALL NOT BE CUT, DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

MOUNTING OVER OBSTRUCTION DETAIL



1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).

UL LISTINGS NOTE

ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY.

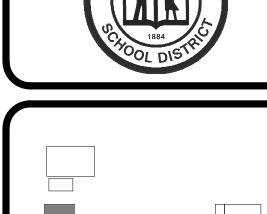
ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS

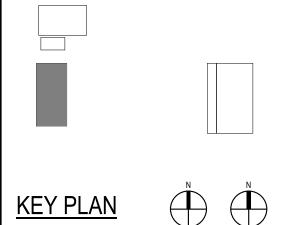
RANCHO CUCAMONGA 8163 Rochestser Avenue, Suite 100 Rancho Cucamonga California 91730 P 909-987-0909 CONSULTANT LEAF Engineers

> 8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987-0909 leafengineers.com

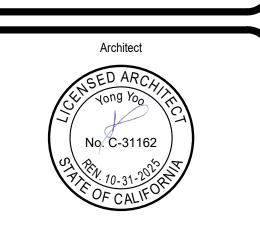
REVIEWED CODE COMPLIANCE Dec 15, 2023

BPR CONSULTING GROUP









ONT	CLII ARIO - MONTCLA		DISTRICT
	DATE 3/3/23	PROJECT 220	
REVI	SIONS		
No.	Descript	ion	Date

CitySubmittal - Rgistration #B202301766

ELECTRICAL SYMBOLS, **LEGENDS & GENERAL**

Indoor Lighting

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name:

Transportation Center Report Page:

(Page 1 of 7)
Project Address:

1442 South Bon View, Ontario CA. 91761
Date Prepared:

2023-02-16T18:13:06-05:00

A. GENERAL INFORMATION

O1 Project Location (city) Ontario O4 Total Conditioned Floor Area (ft²) 3,054

O2 Climate Zone 10 O5 Total Unconditioned Floor Area (ft²) 0

O3 Occupancy Types Within Project (select all that apply): O6 # of Stories (Habitable Above Grade) 2

• Warehouse

B. PROJECT SCOPE This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations. Scope of Work Conditioned Spaces My Project Consists of (check all that apply): Calculation Method Calculation Method Area (ft²) Area (ft²) □ New Lighting System Area Category Method N/A ☐ New Lighting System - Parking Garage N/A Area Category Method 670 N/A 0

3054

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 88069-0223-0003 Schema Version: rev 20220101 Report Generated: 2023-02-16 15:13:10

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name:

Transportation Center Report Page:

1442 South Bon View, Ontario CA. 91761 Date Prepared:

2023-02-16T18:13:06-05:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs) Area Level Controls Manual Area Multi-Level Complete Building or Area Shut-Off Controls Field Inspector Controls Controls Daylighting | 130.1(d) / | 140.6(a)1/ Area Description Category Primary Function 130.1(c) // 130.1(a)/ 130.1(b)/ 130.1(d) / 160.5(b)4D 170.2(e)2A 170.2(e)2A 160.5(b)4C 160.5(b)4A 160.5(b)4B Pass Fail NA: Not NA: Not STORAGE ROOM Storage - MF common areas Dimmer Occupancy Sensor davlit zone daylit zone Accessible

Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used . Conditioned Spaces 04 05 01 03 Additional Allowance / Adjustment Allowed Density Complete Building or Area Category Primary Allowed Wattage Area Description Function Area (W/ft^2) (Watts) Area Category PAF STORAGE ROOM Storage - MF common areas 0.45 670 301.5 No No TOTALS: 670 301.5 See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

City/State/Zip: RANCHO CUCAMONGA

Total Area of Work (ft²)

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 88069-0223-0003 Report Generated: 2023-02-16 15:13:10

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name:
Transportation Center Report Page:
Project Address:
1442 South Bon View, Ontario CA. 91761 Date Prepared:
2023-02-16T18:13:06-05:00

I certify that this Certificate of Compliance documentation is accurate and complete. ocumentation Author Signature: Nicole Oropeza Documentation Author Name Nicole Oropeza Company: LEAF ENGINEERS Signature Date: 02-08-23 Address: 8163 ROCHESTER AVE. CEA/ HERS Certification Identification (if applicable): City/State/Zip: RANCHO CUCAMONGA RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. esponsible Designer Name: RONALD DELA CRUZ Responsible Designer Signature: Company: LEAF ENGINEERS Date Signed: 02-08-23 License: E23576 ddress: 8163 ROCHESTER AVE.

Phone: 909-987-0909

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance Report Generated: 2023-02-16 15:13:10

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name:

Transportation Center Report Page:

(Page 2 of 7)
Project Address:

1442 South Bon View, Ontario CA. 91761
Date Prepared:

2023-02-16T18:13:06-05:00

C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance. Adjusted Lighting Power per 140.6(a) / 170.2(e) Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) **Compliance Results** conditioned and Adiustments unconditioned Category PAF Lighting spaces must not be Total Complete Category | Additional | 140.6(c)3 / Control Credits combined for Building Designed 05 must be >= 08 (Watts) Allowed 140.6(a)2 / compliance per 140.6(c)1 (Watts) 140.6 / 170.2(e) *Includes 170.2(e)4 | 170.2(e)4Av (Watts) 170.2(e)1B 140.6(b)1 / 170.2(e) Adjustments (See Table I) (See Table I) (See Table J) (See Table K) (See Table F) (See Table P) 272.7 272.7 Conditioned COMPLIES Unconditioned COMPLIES Controls Compliance (See Table H for Details) Rated Power Reduction Compliance (See Table Q for Details)

Rated Power Reduction Compliance (See Table Q for Details)

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
Schema Version: rev 20220101

Compliance ID: 88069-0223-0003
Report Generated: 2023-02-16 15:13:10

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name:
Transportation Center Report Page:
(Page 5 of 7)
Project Address:
1442 South Bon View, Ontario CA. 91761 Date Prepared:
2023-02-16T18:13:06-05:00

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

This section does not apply to this project.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

Report Version: 2022.0.000

Schema Version: rev 20220101

Compliance ID: 88069-0223-0003

Report Generated: 2023-02-16 15:13:10

STATE OF CALIFORNIA

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name:

Transportation Center Report Page:

1442 South Bon View, Ontario CA. 91761 Date Prepared:

2023-02-16T18:13:06-05:00

F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here. **Designed Wattage: Conditioned Spaces** 03 | 04 Field Inspector Name or Item Complete Luminaire Modular Watts per How is Wattage | Total Numbe (Track) Fixture Color Change¹ 140.6(a)3 / Design Watts Description luminaire² determined of Luminaires 170.2(e)2C FX-A 2X4 TROFFER No 30.3 Mfr. Spec 272.7 Total Designed Watts: CONDITIONED SPACES

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01
02
03

Shut-off controls 130.1(c) / 160.5(b)4C

See Area/Space Level Controls

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 88069-0223-0003 Schema Version: rev 20220101 Report Generated: 2023-02-16 15:13:10

STATE OF CALIFORNIA

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name:

Transportation Center Report Page:
(Page 6 of 7)
Project Address:

1442 South Bon View, Ontario CA. 91761
Date Prepared:
2023-02-16T18:13:06-05:00

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title

NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title

Systems/Spaces To Be Field Verified

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

STORAGE ROOM

City of Ontario | Building Department

APPROVED & REVIEWED

FOR CODE COMPLIANCE

The issuance of a permit and approval of these plans shall not be construed to permit or approve any violation of the applicable codes or ordinances.

Date: 01/16/2024 1:34:39 PM

Registration Number:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

Mandatory Demand Response 110.12(c)

NA < 4,000W subject to multilevel

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

Documentation Software: Energy Code Ace

Compliance ID: 88069-0223-0003

Report Generated: 2023-02-16 15:13:10

Field Inspector

Pass Fail



RANCHO CUCAMONGA
8163 Rochestser Avenue, Suite 100
Rancho Cucamonga
California 91730
P 909-987-0909

CONSULTANT

RANCHO CUCAMONGA
PBK.com
PBK.

ENGINEERS

8163 Rochester Avenue, Suite 100

Rancho Cucamonga, CA 91730

909.987-0909

leafengineers.com

REVIEWED

FOR
CODE COMPLIANCE

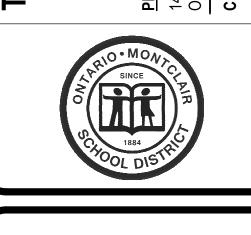
Dec 15, 2023

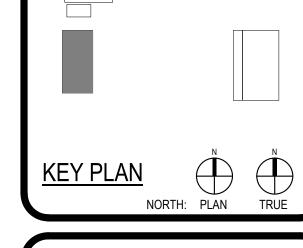
BPR CONSULTING GROUP

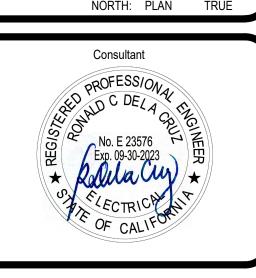
RANSPORTATION CENTER

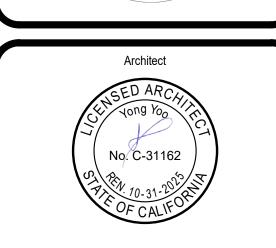
2 South Bon View
ario, Ca 91761

Submittal - Poistration #8202301766









	CLIE	ENT	
ONT	ARIO - MONTCLA	IR SCHOOL	DISTRICT
	DATE 3/3/23	PROJECT 220	
REVI	SIONS		
No.	Descript	ion	Date
Cit	ySubmittal - Rgist	tration #B20	2301766
	TITLE 04		C
	TITLE 24	· FUKIVI	5

1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRESCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.

 ELECTRICAL ENGINEERING FOR THIS PROJECT IS BASED ON EXISTING DRAWINGS AND A FIELD VISIT OF THE ELECTRICAL SYSTEM. IN CASE OF ANY DISCREPANCIES WITH EXISTING FIELD CONDITIONS, ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT DIFFERENCES AND NOTIFY THE ELECTRICAL ENGINEER FOR POSSIBLE REVISION TO THESE DOCUMENTS.

KEY NOTES

B202301766

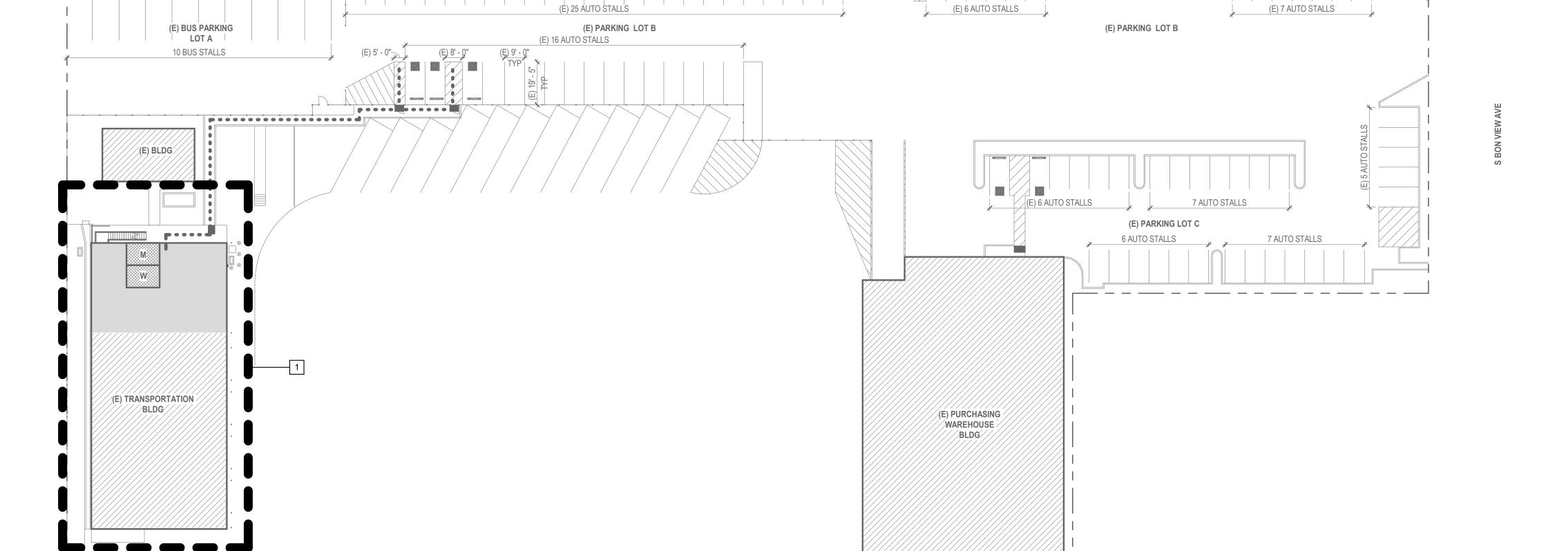
City of Ontario | Building Department
APPROVED & REVIEWED

FOR CODE COMPLIANCE

The issuance of a permit and approval of these plans shall not be construed to permit or approve any violation of the applicable codes or ordinances.

Date: 01/16/2024 1:34:39 PM

1 SCOPE OF WORK



PBK

RANCHO CUCAMONGA
8163 Rochestser Avenue, Suite 100
Rancho Cucamonga
California 91730
P 909-987-0909

CONSULTANT

RANCHO CUCAMONGA
PBK.com
Rancho Cucamonga
California 91730
P 909-987-0909

LEAF ENGINEERS

8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987-0909 leafengineers.com

REVIEWED

FOR

CODE COMPLIANCE

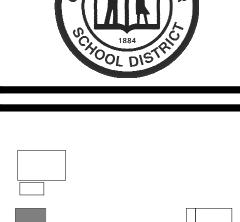
Dec 15, 2023

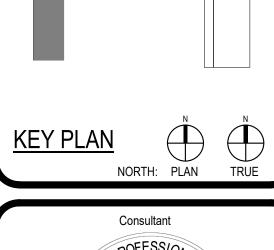
BPR CONSULTING GROUP

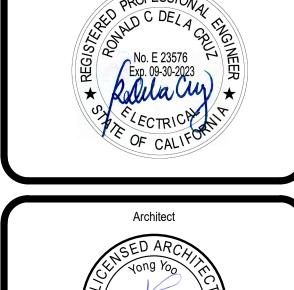
BPR CONSULTING GROUP

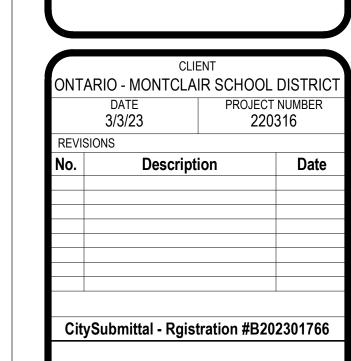
TRANSPORTATION CENTER

PROJECT ADDRI 1442 South Bon V Ontario, Ca 91761 CitySubmittal - R





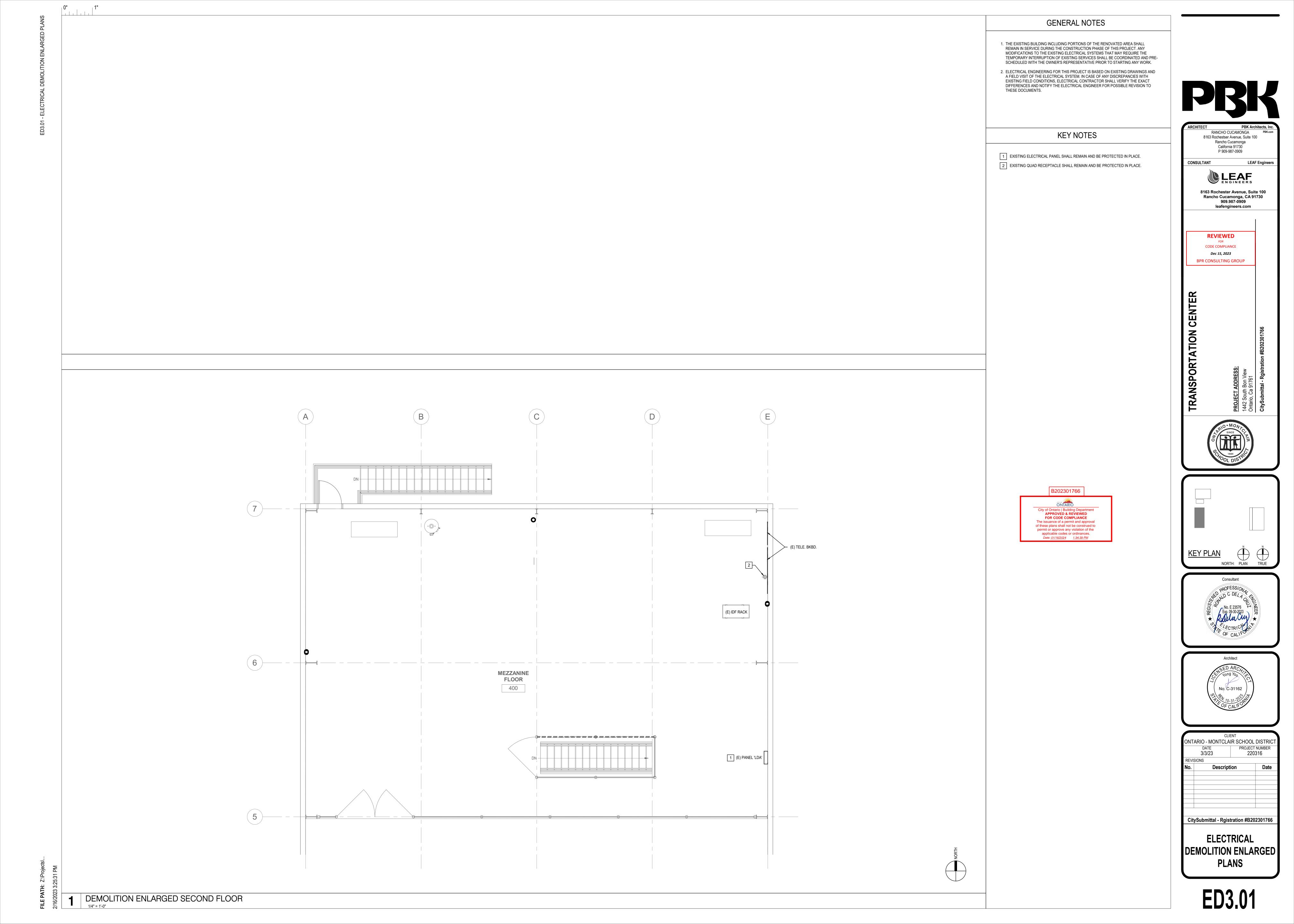




OVERALL SITE PLAN

E1.01

NORTI



1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.

2. ELECTRICAL ENGINEERING FOR THIS PROJECT IS BASED ON EXISTING DRAWINGS AND A FIELD VISIT OF THE ELECTRICAL SYSTEM. IN CASE OF ANY DISCREPANCIES WITH EXISTING FIELD CONDITIONS, ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT DIFFERENCES AND NOTIFY THE ELECTRICAL ENGINEER FOR POSSIBLE REVISION TO THESE DOCUMENTS.

KEY NOTES

1 EXISTING LIGHT FIXTURE SHALL BE REMOVED AND RELOCATED TO NEW LOCATION. SEE E2.02 FOR ADDITIONAL INFORMATION.

City of Ontario | Building Department
APPROVED & REVIEWED
FOR CODE COMPLIANCE
The issuance of a permit and approval
of these plans shall not be construed to
permit or approve any violation of the
applicable codes or ordinances.

Date: 01/16/2024 1:34:39 PM

RANCHO CUCAMONGA 8163 Rochestser Avenue, Suite 100 Rancho Cucamonga California 91730 P 909-987-0909

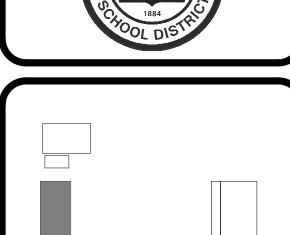
LEAF Engineers CONSULTANT LEAF

> 8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987-0909 leafengineers.com

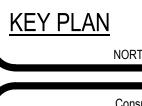
REVIEWED CODE COMPLIANCE Dec 15, 2023

BPR CONSULTING GROUP

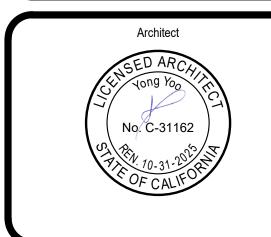
TRANSPORTATION CENTER











	CLIE			
ONT	ARIO - MONTCLA	IR SCHOOL	CHOOL DISTRICT	
	DATE	PROJECT		
	3/3/23	220	316	
REVI	SIONS			
No.	Descript	ion	Date	
Cit	ySubmittal - Rgist	tration #B20	2301766	
D	ELECT EMOLITIO FLOOI	N SEC	OND	

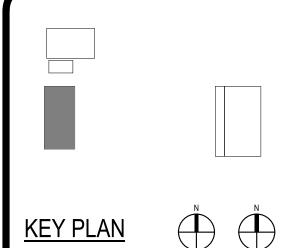
RANCHO CUCAMONGA 8163 Rochestser Avenue, Suite 100 Rancho Cucamonga California 91730 P 909-987-0909

LEAF

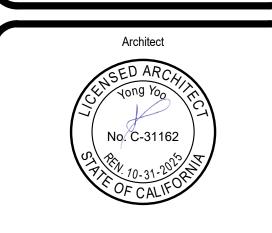
REVIEWED CODE COMPLIANCE

Dec 15, 2023 BPR CONSULTING GROUP









1				
ONTARIO - MONTCLAIR SCHOOL		IR SCHOOL		
	DATE	PROJECT	NUMBE	
	3/3/23	220	316	
REVIS	SIONS			
No.	Descript	ion	Da	
	ySubmittal - Rgist	· · · #D00		

- 1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRESCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
- 2. ELECTRICAL ENGINEERING FOR THIS PROJECT IS BASED ON EXISTING DRAWINGS AND A FIELD VISIT OF THE ELECTRICAL SYSTEM. IN CASE OF ANY DISCREPANCIES WITH EXISTING FIELD CONDITIONS, ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT DIFFERENCES AND NOTIFY THE ELECTRICAL ENGINEER FOR POSSIBLE REVISION TO THESE DOCUMENTS.
- 3. ALL LOW VOLTAGE LIGHTING CONTROL CABLING IN OPEN CEILING AREAS SHALL BE CONCEALED IN A MINIMUM 3/4" CONDUIT. NO EXPOSED CABLES SHALL BE ALLOWED.
- 4. PROVIDE EMERGENCY BATTERY PACKS FOR ALL LIGHTING FIXTURES DESIGNATED TO BE ON EMERGENCY POWER AND EXIT SIGNS. PROVIDE UNSWITCHED HOT TO BATTERY SO THAT LAMPS CAN BE SWITCHED OFF AND ON WITHOUT DRAINING BATTERY. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM PANEL TO ALL EXIT SIGNS IN THE AREA.

KEY NOTES

- 1 NEW LED LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE ON SHEET E5.01 FOR ADDITIONAL INFORMATION.
- 2 RELOCATED LIGHTING FIXTURE, EXTEND NEW CONDUIT AND WIRING TO MATCH EXISTING TO THE NEW FIXTURE LOCATION. RE-USE EXISTING CIRCUIT.
- 3 LOW VOLTAGE WALL ON/OFF SWITCH WITH DIMMING
- 4 NOT USED.
- 5 LOW VOLTAGE WALL ON/OFF SWITCH WITH OCCUPANCY SENSOR

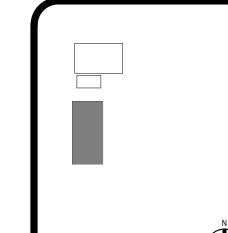
B202301766

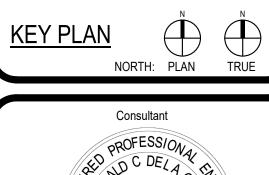
City of Ontario | Building Department
APPROVED & REVIEWED
FOR CODE COMPLIANCE
The issuance of a permit and approval

of these plans shall not be construed to permit or approve any violation of the applicable codes or ordinances.

Date: 01/16/2024 1:34:39 PM

- 6 LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR
- 7 PROVIDE NEW EMERGENCY EXIT SIGN.





RANCHO CUCAMONGA 8163 Rochestser Avenue, Suite 100 Rancho Cucamonga California 91730 P 909-987-0909

LEAF

8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987-0909

leafengineers.com

REVIEWED

CODE COMPLIANCE

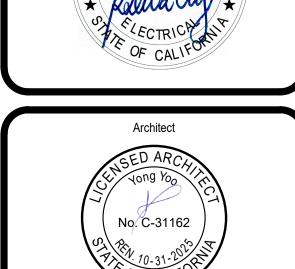
Dec 15, 2023

BPR CONSULTING GROUP

LEAF Engineers

CONSULTANT

TRANSPORTATION CENTER



CLIENT		
ONTARIO - MONTCLAIR SCHOOL	DISTRI	
	PROJECT NUMBER 220316	
REVISIONS		
No. Description	Date	

ENLARGED FLOOR PLAN - SECOND FLOOR

LIGHTING PLAN

CitySubmittal - Rgistration #B202301766

E2.02

NORTH

- 1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
- 2. ELECTRICAL ENGINEERING FOR THIS PROJECT IS BASED ON EXISTING DRAWINGS AND A FIELD VISIT OF THE ELECTRICAL SYSTEM. IN CASE OF ANY DISCREPANCIES WITH EXISTING FIELD CONDITIONS, ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT DIFFERENCES AND NOTIFY THE ELECTRICAL ENGINEER FOR POSSIBLE REVISION TO THESE DOCUMENTS.

KEY NOTES

- 1 INSTALL NEW 120V RECEPTACLE, 3/4"C-2#12 + 1#12 GRD.
- 2 EXISTING RECEPTACLE SHALL REMAIN AND BE PROTECTED IN-PLACE.
- PROVIDE LOCAL DISCONNECT SWITCH, INDOOR UNIT IS POWERED FROM OUTDOOR UNIT. PROVIDE 3/4"C-3#8 + 1#10 GRD, ROUTE CONDUIT AND WIRE TO OUTDOOR UNIT. SEE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

B202301766

City of Ontario | Building Department
APPROVED & REVIEWED

FOR CODE COMPLIANCE
The issuance of a permit and approval of these plans shall not be construed to

permit or approve any violation of the applicable codes or ordinances.

Date: 01/16/2024 1:34:39 PM

PROVIDE LOCAL DISCONNECT SWITCH, INDOOR UNIT IS POWERED FROM OUTDOOR UNIT. PROVIDE 3/4"C-3#10 + 1#10 GRD, ROUTE CONDUIT AND WIRE TO OUTDOOR UNIT. SEE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

TRANSPORTATION CENTER

REVIEWED

CODE COMPLIANCE Dec 15, 2023 BPR CONSULTING GROUP

RANCHO CUCAMONGA PBK.com

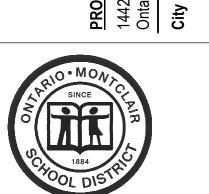
LEAF Engineers

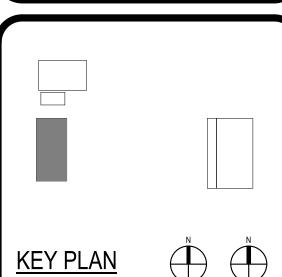
8163 Rochestser Avenue, Suite 100 Rancho Cucamonga California 91730 P 909-987-0909

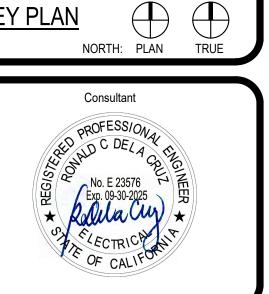
LEAF

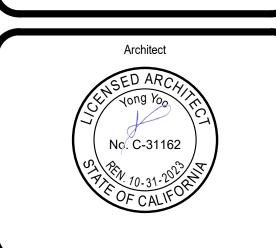
8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987-0909 leafengineers.com

CONSULTANT



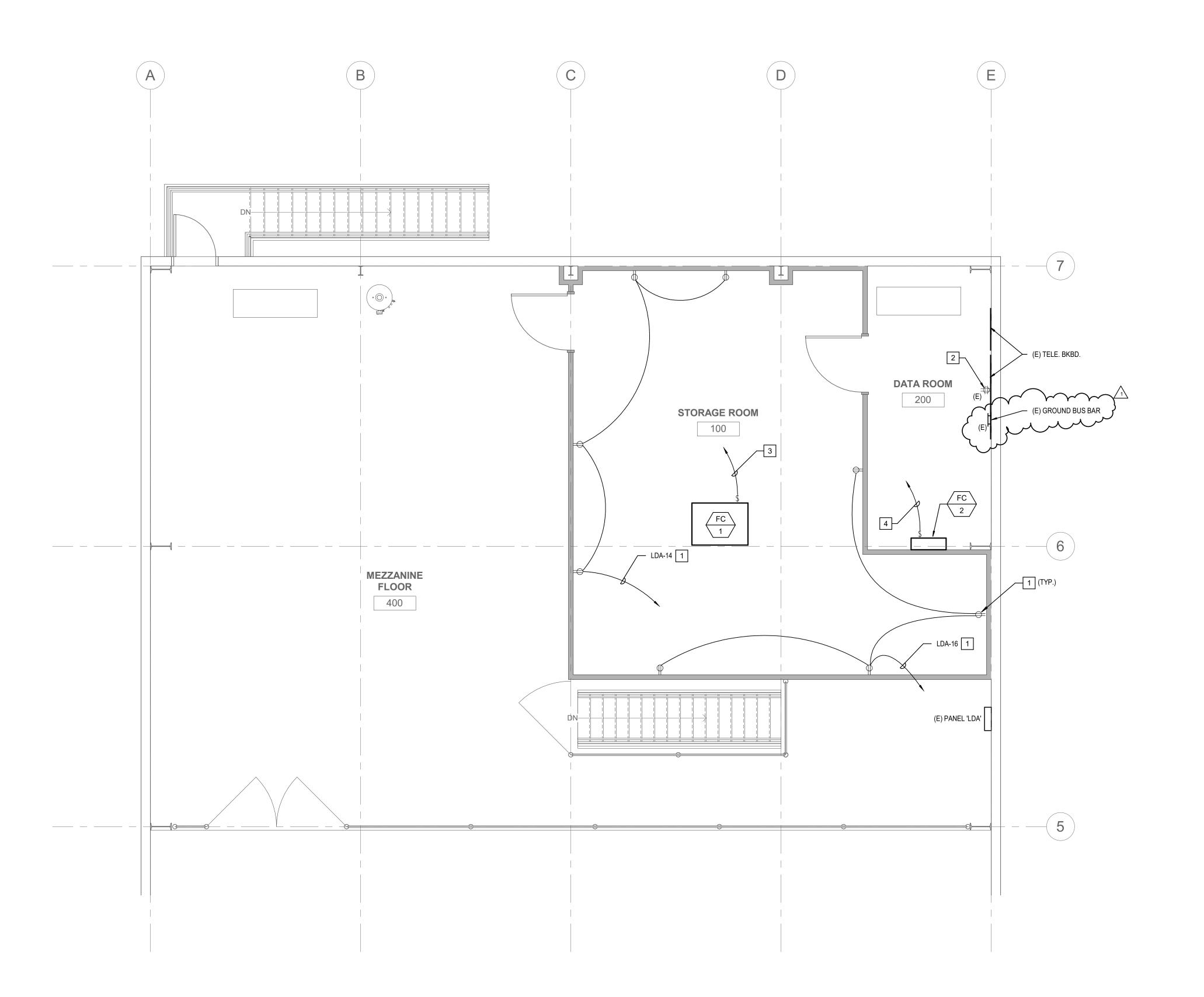




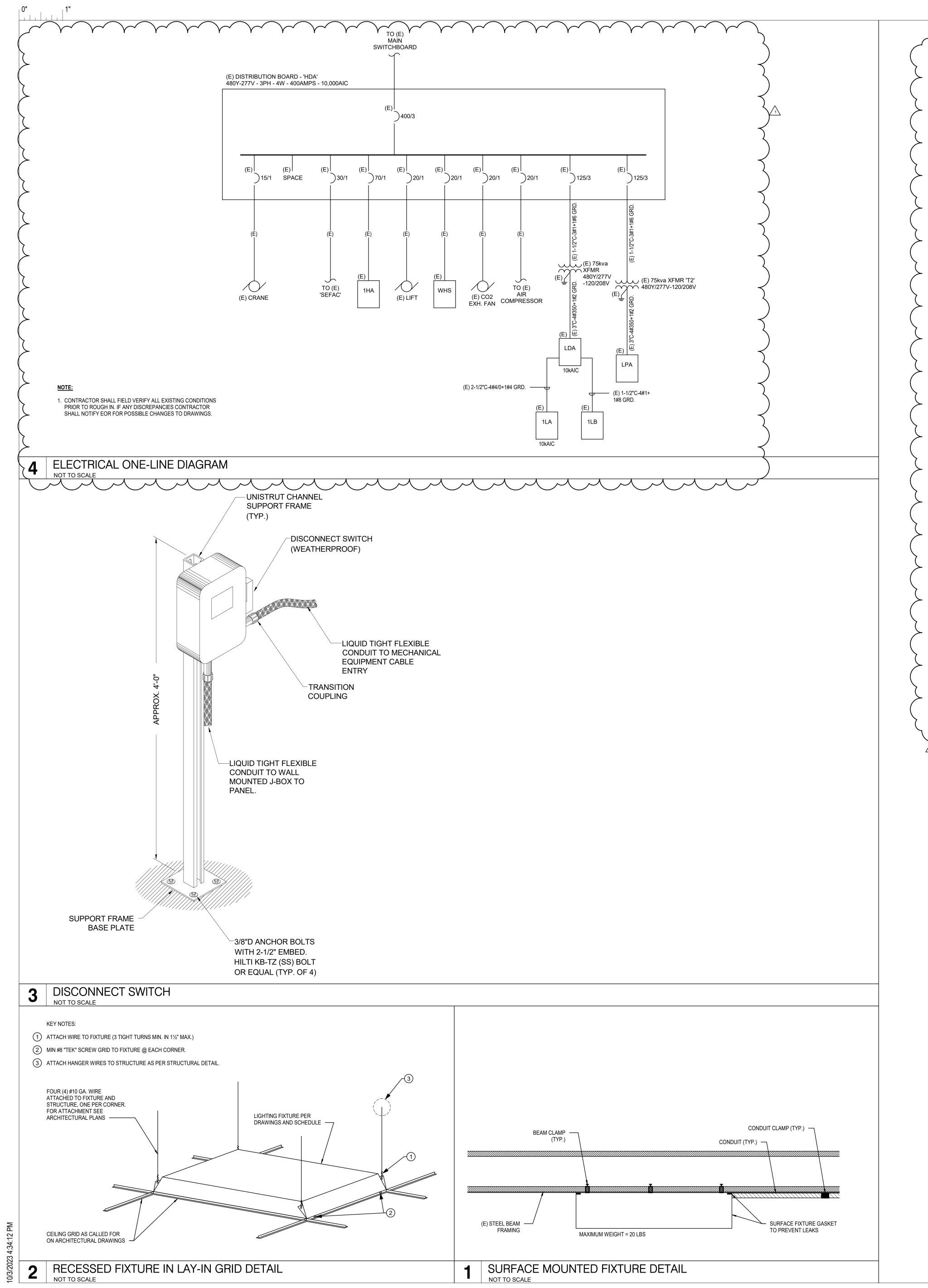


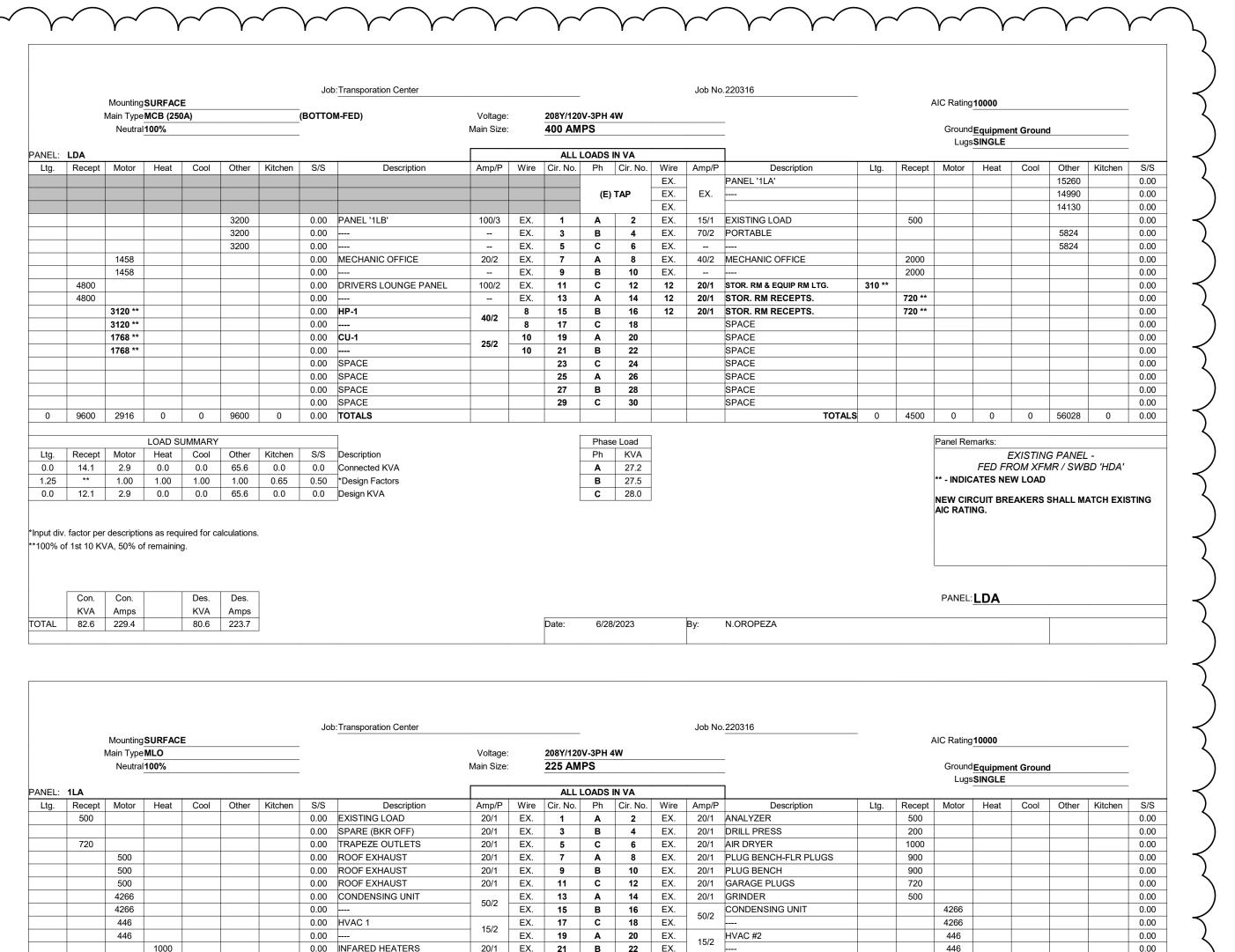
ONTARIO - MONTCLAIR SCHOOL DISTRIC PROJECT NUMBER 220316 CITY BACK CHECK City Submittal - Registration #B202301766

ELECTRICAL ENLARGED **PLANS**



ENLARGED SECOND FLOOR





30/3 EX. **25** A **26** EX. 15/1 FUEL SYSTEM CONTROL

EX. 27 B 28 12 20/1 FACP ***

30/2 EX. 35 C 36 EX. 15/1 SPARE (BKR OFF)

EX. 37 A 38 EX. 15/1 FUEL PUMP

15/3 EX. 39 B 40 EX. 15/1 EXISTING LOAD

EX. 41 C 42 EX. 15/1 SPARE (BKR OFF)

Phase Load
Ph KVA

6/28/2023

0.00 HVAC 1

0.00 ----

0.00 GATE 0.00 -----

0 0 0 0.00 **TOTALS**

LOAD SUMMARY

*Input div. factor per descriptions as required for calculations.

**100% of 1st 10 KVA, 50% of remaining.

 KVA
 Amps

 TOTAL
 43.4
 120.5

 0.0
 8.0
 29.4
 6.0
 0.0
 0.0
 0.0
 0.0
 Connected KVA

 1.25
 **
 1.00
 1.00
 1.00
 0.65
 0.50
 *Design Factors

 0.0
 8.0
 29.4
 6.0
 0.0
 0.0
 0.0
 0.0
 Design KVA

KVA Amps

0.00 INFARED HEATERS 0.00 WATER HEATER

0.00 PLUGS DOOR RM 116 0.00 DISTRACTION FANS

> B202301766 City of Ontario | Building Department APPROVED & REVIEWED FOR CODE COMPLIANCE The issuance of a permit and approval of these plans shall not be construed to permit or approve any violation of the applicable codes or ordinances. Date: 01/16/2024 1:34:39 PM

Panel Remarks:

EXISTING PANEL - FED FROM 'LDA'

*** - INDICATES CIRCUIT BREAKER SHALL BE RED IN

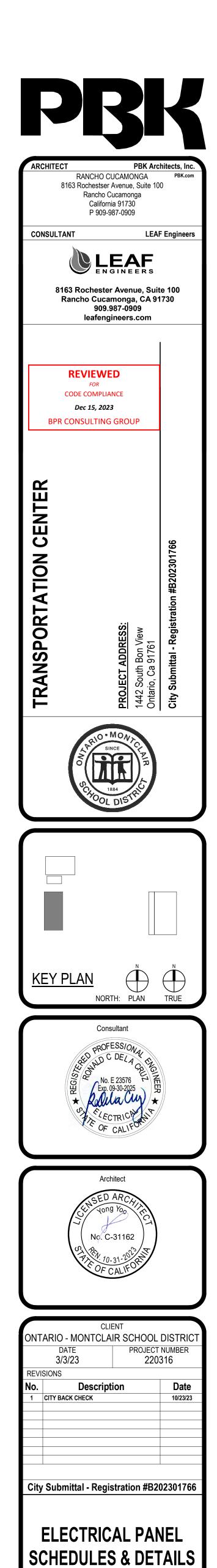
NEW CIRCUIT BREAKERS SHALL MATCH EXISTING

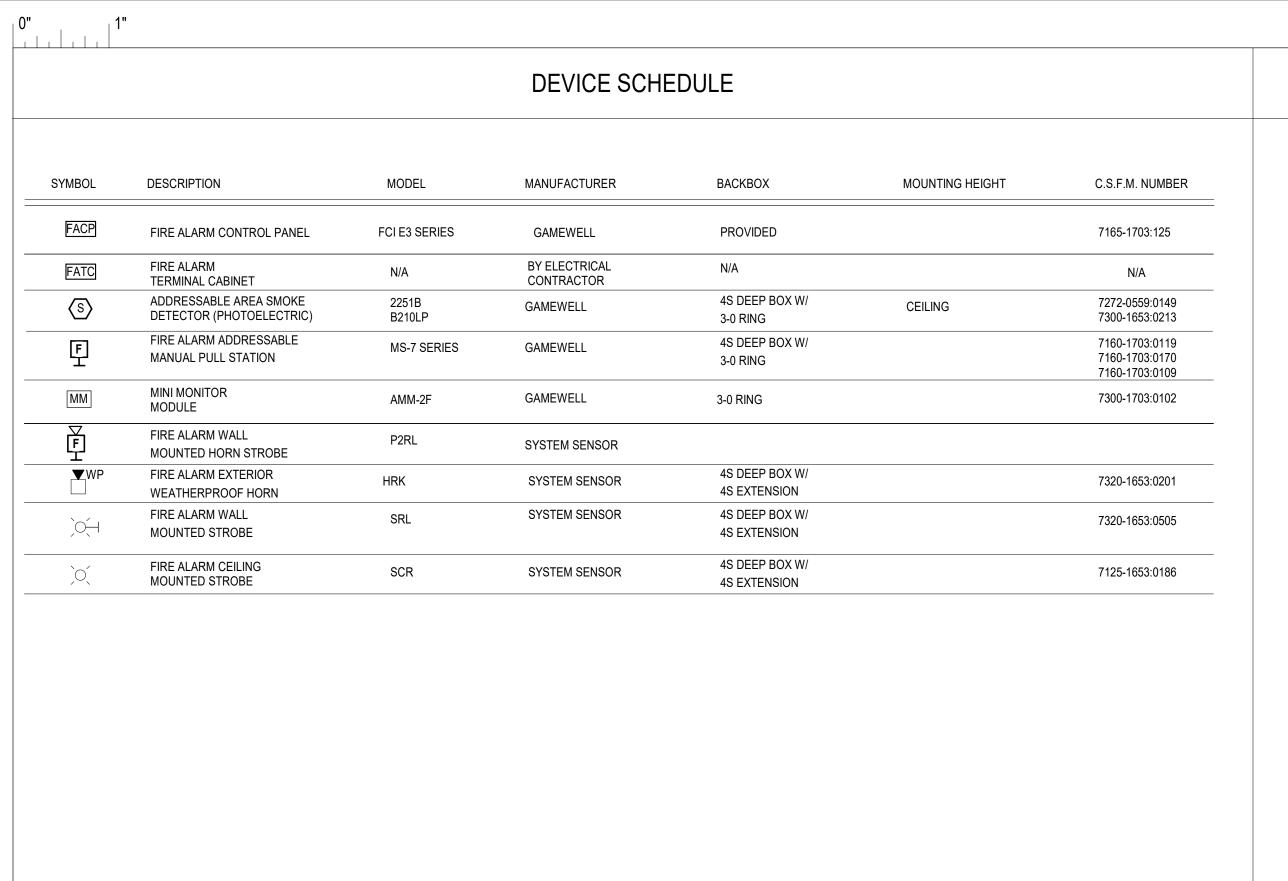
** - INDICATES NEW LOAD

COLOR AND LOCKABLE.

AIC RATING.

PANEL: 1LA





ELEVATION MOUNTING DETAIL

MOUNTING OVER OBSTRUCTION DETAIL

2019 CBC

11B-308.2.2

/ 4-S BOX WITH 3" RING

SMOKE DETECTOR

SMOKE DETECTOR NOT

TO BE INSTALLED IN

SPEAKER/STROBE

AND STROBE

80" A.F.F

AFF

THIS AREA

FINISHED CEILING

SPEAKER ONLY

90" A.F.F. OR 6"

BELOW CEILING

WHICHEVER IS

LOWER

4" OCTAGON BACK BOX

4" MIN.

<u>ABBREVIATION</u>	DESCRIPTION	ABBREVIATION	DESCRIPTION
A OR AMP	AMPERES	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NO.	NUMBER
AIC	AMPERES INTERRUPTING CAPACITY	PH. OR Ø	PHASE
ARCH.	ARCHITECT; ARCHITECTURAL	PNL	PANEL
AWG	AMERICAN WIRE GAUGE	PWR	POWER
С	CONDUIT	REC/RECEPT	RECEPTACLE
CKT	CIRCUIT	REQ'D	REQUIRED
CL.	CEILING MOUNTED DEVICE	RM	ROOM
C.O.	CONDUIT ONLY WITH PULL WIRE	SF	SQUARE FEET
CU	COPPER	SHT	SHEET
DWG	DRAWING	SP	SINGLE POLE
ER	EXISTING DEVICE TO BE REMOVED	SPECS	SPECIFICATIONS
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EQUIP	EQUIPMENT	TYP	TYPICAL
EXIST / (E)	EXISTING	UG	UNDERGROUND
FIN.	FINISH	U.O.N.	UNLESS OTHERWISE NOTED
FLR	FLOOR	V	VOLTS
FT	FEET	V-A	VOLT-AMPERES
GFI	GROUND FAULT INTERRUPTER	W	WATTS
GND	GROUND	W/	WITH
LTG.	LIGHTING	W/O	WITHOUT
MTG	MOUNTING	WP	WEATHERPROOF
N	NEW	CEC	CALIFORNIA ELECTRICAL CO
S	FLOW SWITCH		
 	ILINGTION DOV		

JUNCTION BOX

TEMPER SWITCH

RISER UP AND DOWN

POST INDICATOR VALVE

PULL BOX (WEATHERPROOF)

LEGENDS

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2022
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2002 CALIFORNIA ODEEN DIJII DING STANDADDS CODE (CALODEEN), DADT 44, TITLE

APPLICABLE CODES

2022 C 2022 C 2022 C

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR. PUBLIC SAFETY. STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED): 2016 EDITION NFPA 720 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT; NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES; 2016 EDITION

UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES: 2003 EDITION UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS; 1999 EDITION UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED: 2002 EDITION (R2010) ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS; 2017 EDITION FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE. CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

GENERAL NOTES

DRAWING INDEX

FIRE ALARM SYMBOLS, LEGENDS & GENERAL NOTES

DESCRIPTION

FIRE ALARM FLOOR PLANS

A FIRE WATCH SHALL BE ESTABLISHED AND THE FIRE DEPARTMENT & FIRE CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY WHENEVER THE FIRE PROTECTION / ALARM SYSTEM IS RENDERED OUT OF SERVICE. A FIRE WATCH SHALL BE STAGED WHENEVER THE BUILDING IS OCCUPIED (PARTIAL OR WHOLE) PER DSA IR F-2 AND CFC 901.7.

SCOPE OF WORK

PROVIDE NEW ADDRESSABLE FIRE ALARM SYSTEM WITHIN THE AREA OF WORK. PROVIDE FIRE ALARM SYSTEM DEVICES AS SHOWN IN EQUIPMENT LEGEND, FLOOR PLANS, AND SPECIFICATIONS IN THIS CONSTRUCTION DOCUMENT SET. USE NEW FIRE ALARM SYSTEM DEVICES SHOWN PER DRAWING AND SPECIFICATION DOCUMENT. UPON COMPLETION, A COMPLETE PRE TEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY, IF FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.

FIRE WATCH NOTE

2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED

. APPLICABLE STANDARD 2016. NFPA 72. AS ADOPTED AND AMENDED IN CBC CHAPTER 35

<u>SHEET</u>

FA0.00

FA2.01

3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR. 4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.

i. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT. 6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL

7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION. 8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR. 9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE. 10.AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT

SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS. WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING. 11.AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN. 12.THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE

13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.

14.UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET

15.ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN. 16.PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC. 17.SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY

DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER. 18.ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. 19.EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.

20.FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING 21.A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL

HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS. 22. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72,

23.FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.

24.MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308. 25.THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.

26.SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST 27.OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS. 28.ALL CARBON MONOXIDE SIGNALS SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN PER NFPA 720, 5.8.6.5.1. 29.ALL EQUIPMENT SHALL BE U.L. AND C.S.F.M. LISTED.

30.ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE ACCESS FOR ATTIC HEAT DETECTOR, SERVICING, TROUBLESHOOTING, ETC. 31.DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. 32.ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES, AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM

INTERFACE SHALL BE BY MECHANICAL CONTRACTOR. 33.ALL DUCT SMOKE DETECTORS SHALL BE MOUNTED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTORS EXPOSED TO THE WEATHER SHALL BE WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.

CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. 35.ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES, AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. 36.SMOKE DETECTOR TESTING SHALL BE ACCOMPLISHED PER THE MANUFACTURER'S INSTRUCTIONS. 37.ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND

34.ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL

INDICATING DEVICE CIRCUITS. 38.ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES. 39. POINT, COMMON ANNUNCIATION, AND T-TAPPING ARE PROHIBITED. 40.PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING.

41.ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED. 42.ALL FLOW SWITCHES SHALL BE 2 WIRE WITH NON-ELECTRONIC RETARD TYPE SIMILAR TO THE SYSTEM SENSOR MODEL "WFD SERIES" ONLY. 43.ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S

SPECIFICATIONS. 44.FIRE ALARM SYSTEM SHALL BE UL LISTED (UUJS). 45.CBC 907.6.5.3 (SFM AMENDMENT) REQUIRES FIRE ALARM TO... "TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISORY STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISORY STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE AND PROPRIETARY) BY THE

UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FM 3011)." 46.SUBSTITUTION OF SYSTEM COMPONENTS OR MANUFACTURER WILL REQUIRE THE CONTRACTOR TO SEPARATELY OBTAIN APPROVAL WITH THE DSA AT CONTRACTOR'S EXPENSE AND SHALL MEET ALL REQUIREMENTS OF THE SYSTEM AS DESIGNED AND PRE-APPROVED. ALL PROPOSED SUBSTITUTIONS SHALL BE LISTED WITH THE

CALIFORNIA STATE FIRE MARSHAL. 47.FINAL ACCEPTANCE TEST TO INCLUDE TESTING THE CONNECTION BETWEEN THE FIRE ALARM PANEL AND THE SUPERVISING STATION. 48. COORDINATE WITH THE ENGINEER FOR USE OF EXISTING CONDUIT ON A CASE BY CASE BASIS.

49.PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST THE INTERCOM SYSTEM TO ENSURE FULL FUNCTIONALITY. GENERATE A LIST OF FAULTY EQUIPMENT AND PROVIDE TO THE OWNER AND THE ARCHITECT. PROVIDE PRICING FOR ANY REQUIRED EQUIPMENT REPAIRS OR REPLACEMENT. 50. CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM SYSTEM FROM THE EXISTING INTERCOM SYSTEM. ENSURE THE INTERCOM SYSTEM IS COMPLETELY FUNCTIONAL AFTER DISCONNECTION.

51. CONTRACTOR SHALL CLEARLY MARK THE ABANDON SECTION OF PUBLIC ADDRESS SYSTEM.

52.PROVIDE A FIRE ALARM DOCUMENTATION CABINET PER NFPA72.7.7. 53.FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CBC CHAPTER 33 AND CFC CHAPTER 33. 54. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APRROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24. CALIFORNIA CODE OF REGULATION CHANGE DOCUMENT, OR A SEPERATE SET OF

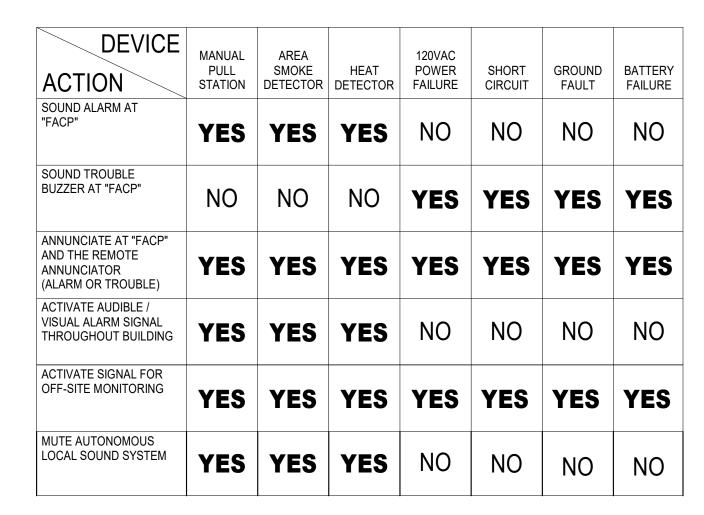
PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK (CAC 4-317(C)). 55 CHANGES TO THE DIVISION OF THE STATE ARCHITECT APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS FOR CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE -SAFETY PORTIONS OF THE PROJECT. CHANGES SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON CAC 4-338(C)).

56. PROJECT INSPECTOR TO APPROVE SYSTEM VOICE-EVACUATION INTELLIGIBILITY DURING TESTING PHASE. 57. CONTRACTOR SHALL PROVIDE ALL CABLING, RELAYS, MOUNTING HARDWARE AND ANY OTHER DEVICES (FIRE ALARM SYSTEM DEVICES) TO PROVIDE A FULLY FUNCTIONING FIRE ALARM OVERRIDE SYSTEM. WHEN FIRE ALARM CEASES, EACH LOCAL SOUND SYSTEM SHALL AUTOMATICALLY REVERT TO NORMAL OPERATION. FIRE ALARM MODULES AND CABLING BY FIRE ALARM CONTRACTOR.

58.FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION. 59.NOTIFICATION APPLIANCES USED FOR SIGNALING OTHER THAN FIRE SHALL NOT HAVE THE WORD "FIRE" OR ANY FIRE SYMBOL, IN ANY FORM (I.E., STAMPED, IMPRINTED, ETC.) ON THE APPLIANCE VISIBLE TO THE PUBLIC. NOTIFICATION APPLIANCES WITH MULTIPLE VISIBLE ELEMENTS SHALL BE PERMITTED TO HAVE FIRE MARKING ONLY ON THOSE VISIBLE ELEMENTS USED FOR FIRE SIGNALING, PER NFPA 72, 18.3.3.2/ NFPA 720, 6.3.3.2/ IR 9-2, 5.4.4 & 5.4.5. 60.AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF FM 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH SECTION 907.6.6.2.

61. THE NEW PROJECT SUBMITTAL TO INCLUDE DIRECTION THAT FIRE ALARM SYSTEM RECORD OF COMPLETION AND FIRE ALARM SYSTEM RECORD OF INSPECTION AND TESTING FORM THESE TWO DOCUMENTS FROM NFPA 72 ARE TO BE COMPLETED AND SUBMITTED PRIOR TO CLOSE OUT OF THE PROJECT. A COPY OF COMPLETED AND SIGNED FORM SHALL BE GIVEN TO THE ARCHITECT OR ENGINEER OF RECORD, THE PROJECT INSPECTOR, THE OWNER (SCHOOL DISTRICT) AND LOCAL FIRE AUTHORITY.

SEQUENCE OF OPERATIONS



TO THE HIGHEST POINT OF THE ACTIVATING HANDLE OR LEVER OF THE BOX. MANUAL FIRE ALARM BOXES SHALL ALSO COMPLY WITH 2019 CBC SECTION 11B-309.4. PER NFPA 72 CHAPTER A.17.7.4.1 DETECTORS SHOULD NOT BE LOCATED IN A DIRECT AIRFLOW OR CLOSER THAN ☐ 4-S BOX WITH NO 36 IN. (910 MM) FROM AN AIR SUPPLY DIFFUSER OR RING FLUSH TO WALL RETURN AIR OPENING. SUPPLY OR RETURN SOURCES OF SINGLE GANG RING LARGER THAN THOSE COMMONLY FOUND IN RESIDENTIAL FOR STROBE ONLY AND SMALL COMMERCIAL ESTABLISHMENT CAN REQUIRE GREATER CLEARANCE TO SMOKE DETECTORS. SIMILARLY, SMOKE DETECTORS SHOULD BE LOCATED FARTHER AWAY FROM HIGH VELOCITY AIR SUPPLIES. EXCEPTIONS: IDSA-ACI IN EXISTING BUILDINGS THERE IS * PULL STATION NO REQUIREMENT TO RETROACTIVELY RELOCATE 4-S BOX EXISTING MANUAL FIRE ALARM BOXES TO A MINIMUM OF WITH SINGLE 42 INCHES AND A MAXIMUM OF 48 INCHES FROM THE **GANG RING** FLOOR LEVEL TO THE ACTIVATING HANDLE OR LEVER OF THE BOX. 42"- 48" A.F.F. MAX TO OPERABLE FINISHED FLOOR

THE ENTIRE LENS OF STROBE LIGHTS MUST BE BETWEEN

IF CEILING HEIGHTS EXCEED 30 FEET, STROBE LIGHTS

MANUAL FIRE ALARM BOXES SHALL BE INSTALLED IN

MANUAL FIRE ALARM BOXES SHALL BE LOCATED NOT

ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE

LOCATED SO THAT THE TRAVEL DISTANCE TO THE

NEAREST BOX DOES NOT EXCEED 200 FEET.

ACCORDANCE WITH SECTIONS 907.3.1 THROUGH 907.3.5

MORE THAN 5 FEET FROM THE ENTRANCE TO EACH EXIT.

THE HEIGHT OF THE MANUAL FIRE ALARM BOXES SHALL

INCHES, MEASURED VERTICALLY, FROM THE FLOOR LEVEL

BE A MINIMUM OF 42 INCHES AND A MAXIMUM OF 48

80" AND 96" ABOVE FLOOR FINISH (AFF)

MUST BE SUSPENDED AT OR BELOW 30 FEET

— 24" MAX — ► TOP OF SWITCH BOX, DEVICE, OUTLET FA TOP OF SWITCH MICROPHONE BOX, DEVICE, OUTLET FA **MICROPHONE** 48" MAX SIDE APPROACH APPROACH WITH KNEE 34" MAX **BOTTOM OF** AND TOE CLEARANCE

2019 CBC

11B-308.3.2

NOTES:

2019 CBC

11B-308.2.1

FINISHED FLOOR

THE BOX

15" MIN

- 1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).
- 2. FORWARD OR FRONT APPROACH FOR DEVICES MOUNTED ABOVE COUNTERS ASSUMES THAT DIRECTLY BELOW THE DEVICE, THE COUNTER HAS A 30"MIN. WIDTH x27" HIGH x19" MIN. DEEP CLEAR OPENING. CBC SECTIONS 11B-306 & 11B-308.

DESIGNATION CONDUIT WIRE DESIGNATION UNDERGROUND/WET LOC. 2 CONDUCTOR 2 CONDUCTOR #16 FPL TWISTED INIT. LOOP INIT. LOOP #16 FPLP SHIELDED SHIELDED WEST PENN WEST PENN #AQ-294 #D991 4 CONDUCTOR 4 CONDUCTOR #18 TWISTED SHIELDED #18 TWISTED SHIELDED PAIR CABLE PAIR CABLE 2 CONDUCTOR 2 CONDUCTOR **VBUS** #18 TWISTED SHIELDED #18 TWISTED SHIELDED PAIR CABLE PAIR CABLE 2 CONDUCTOR 2 CONDUCTOR SPEAKER CKT. SPEAKER CKT. #14 THHN/THWN #14 THHN/THWN STRANDED STRANDED 2 CONDUCTOR 2 CONDUCTOR VISUAL CKT. VISUAL CKT. #12 THHN/THWN #12 THHN/THWN STRANDED 2 CONDUCTOR 2 CONDUCTOR POWER CKT. POWER CKT. #12 THHN/THWN #12 THHN/THWN STRANDED STRANDED

WIRE SCHEDULE

WIRE IN CONDUIT

UNDERGROUND/WET

NOTE: ALL WIRE MODEL NUMBERS ARE WEST PENN. EQUIVALENT BY OTHER MANUFACTURER IS ACCEPTABLE.

WIRE

WIRE IN

THE CONTRACTOR SHALL PROVIDE AND SUBMIT THE FIRE ALARM SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE FIRE ALARM SYSTEM. THE SUBMITTAL SHALL

FIRE ALARM REQUIREMENTS

CONTAIN THE FOLLOWING: A. SHOP DRAWINGS: COMPLETE 1/8" SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, CONDUIT AND WIRING INDICATING A COMPLETE AND OPERABLE SYSTEM AS DESIGNED AND SPECIFIED. REPRODUCED COPIES OF BID SET FIRE ALARM PLANS ARE NOT ACCEPTABLE AS SHOP DRAWINGS. SHOP DRAWINGS MUST ALSO INDICATE DEVICE MOUNTING HEIGHTS, ROOM NAMES AND NUMBERS AND THE LOCATION OF ALL FIRE RATED WALLS.

B. ELECTRICAL CONTRACTOR'S AND FIRE ALARM SYSTEM INSTALLER'S NAME, ADDRESS, PHONE NUMBER AND C-10 LICENSE C. LIST OF SYSTEM COMPONENTS, EQUIPMENT AND DEVICES, INCLUDING MANUFACTURERS' MODEL NUMBER(S) AND CALIFORNIA

STATE FIRE MARSHALL LISTING NUMBERS D. ORIGINAL COPIERS OF MANUFACTURERS' SPECIFICATION SHEETS FOR ALL EQUIPMENT AND DEVICES INDICATED. E. VOLTAGE DROP CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION FOR THE WORST CASE: 1. POINT-TO-POINT OR OHMS LAW CALCULATIONS.

3. VOLTAGE DROP PERCENT (NOT TO EXCEED MANUFACTURERS' REQUIREMENTS). a. NOTE: IF VOLTAGE DROP EXCEEDS 10%, INDICATE MANUFACTURERS' LISTED OPERATING RANGE(S) OR EQUIPMENT AND 4. NOTE CIRCUIT NUMBER FOR WORST CASE CALCULATION. F. BATTERY TYPE(S), AMPS HOURS AND LOAD CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION:

1. NORMAL OPERATION: 100% OF APPLICABLE DEVICES FOR 24 HOURS = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER -- I.E.: a. ZONE MODULES b. DETECTORS

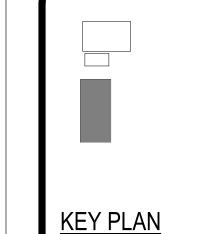
c. OTHER DEVICES (IDENTIFY) 2. ALARM CONDITION: 100% OF APPLICABLE DEVICES FOR 15 MINUTES = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER -- I.E.:

a. ZONE MODULES b. SIGNAL MODULES c. DETECTORS

d. SIGNAL DEVICES e. ANNUNCIATOR

f. OTHER DEVICES (IDENTIFY) 3. NORMAL OPERATION + ALARM OPERATION a. TOTAL AMP HOURS REQUIRED. b. TOTAL AMP HOURS PROVIDED.

2. IDENTIFICATION OF ZONE USED IN CALCULATIONS.



NORTH: PLAN TRUE Consultant

8163 Rochestser Avenue, Suite 100

Rancho Cucamonga

California 91730

LEAF

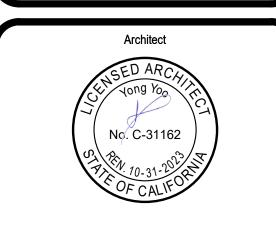
8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987-0909 leafengineers.com

LEAF Engineers

P 909-987-0909

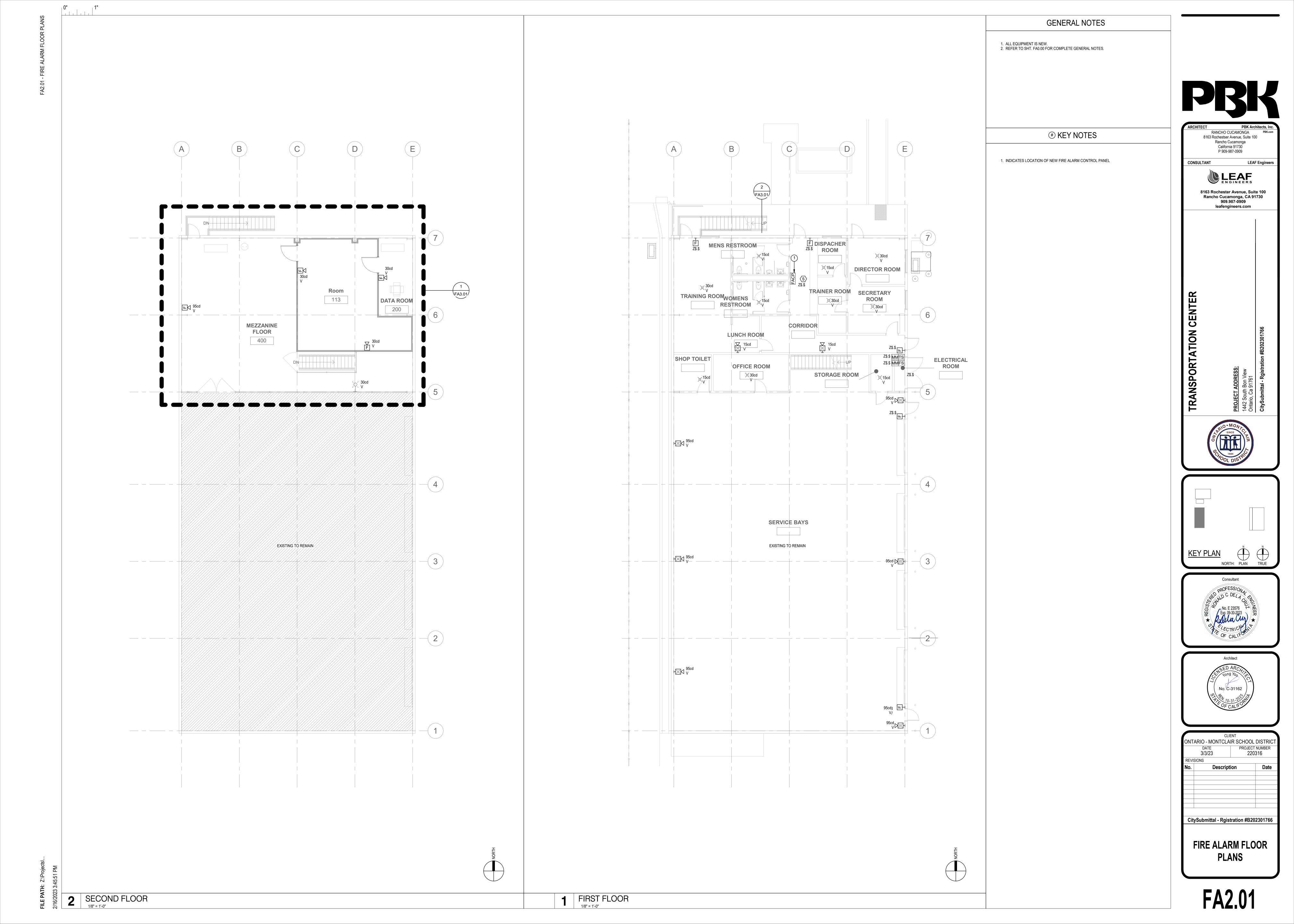
CONSULTANT





	CLIENT	
ONTARIO - MONTO	CLAIR SCHOOL	DISTRICT
DATE		NUMBER
02/15/2023	220	316
REVISIONS		
No. Desc	ription	Date
		-
CitySubmittal - R	gistration #B20	2301766
	- >/\	21.0
FIRE ALAI	RM SYME	BOLS.

LEGENDS & GENERAL



FIRE PROTECTION NOTES FIRE SPRINKLER SYSTEM NOTES SHEET INDEX MODIFY EXISTING FIRE PROTECTIVE SPRINKLER SYSTEM THROUGHOUT THE BUILDING. THE SYSTEM ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH FS0.00 FIRE SPRINKLER SHEET INDEX, LEGEND AND NOTES SHALL BE A WET SYSTEM AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE INSPECTION AUTHORITY. FS1.01 FIRE SPRINKLER FIRST FLOOR PLAN PROTECTION ASSOCIATION PAMPHLET NFPA 13, UNIFORM BUILDING CODE, AND LOCAL AGENCY NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT. REQUIREMENTS. FS1.02 FIRE SPRINKLER SECOND FLOOR PLAN A. CALIFORNIA FIRE CODE, 2022 FS6.00 FIRE SPRINKLER DETAILS NFPA-13. PROVIDE COMPLETE HYDRAULIC CALCULATIONS AND DESIGN. SYSTEM AND ALL SHOP DRAWINGS B. CITY FIRE DEPARTMENT REQUIREMENTS ARE TO BE APPROVED BY THE LOCAL AUTHORITY PRIOR TO STARTING ANY WORK ON THE SYSTEM. C. CALIFORNIA BUILDING CODE - 2022 CALIFORNIA MECHANICAL CODE - 2022 MAKE SURE EXISTING MONITORS AND ALARM SWITCHES AT SHUTOFF VALVE ARE WORKING. MAKE CALIFORNIA PLUMBING CODE - 2022 SURE EXISTING ALARM SYSTEM IS IN ACCORDANCE WITH CBC 903.4. CALIFORNIA ELECTRICAL CODE - 2022 OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) FIRE SPRINKLER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 13 AND REPORTS SHALL BE SUBMITTED TO THE LOCAL AUTHORITY AND THE ENGINEER. SEISMIC RESTRAINT: ALL HUNG PIPING SHALL CONFORM TO NFPA 13, SECTION 9.3. A. LATERAL BRACING MAY BE ELIMINATED IF PIPING 2-1/2" AND LARGER IS SUSPENDED BY INDIVIDUAL HANGERS 6" OR LESS IN LENGTH FROM THE TOP OF PIPE TO THE COORDINATE WITH ARCHITECTURAL DECORATIVE CEILINGS AS REQUIRED TO PROVIDE A CLEAN BOTTOM OF THE ATTACHMENT TO STRUCTURE. UNIFORM FINISH AND INSTALLATION. B. NO TRAPEZE ASSEMBLIES SHALL BE USED TO SUPPORT PIPING. WHERE LATERAL RESTRAINTS ARE OMITTED, PIPING SHALL BE INSTALLED SUCH THAT REVIEW COMPLETE PROJECT PLAN SET PRIOR TO BID. LATERAL MOTION OF THE PIPING WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS OR STRUCTURAL MEMBERS, OR LOSS OF VERTICAL SUPPORT. . THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE TO VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACING LOADS. THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS PRIOR TO BIDDING. IF AWARDED THE CONTRACT, THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS IN DETAIL AND COORDINATE THE WORK WITH EXISTING BUILDING SYSTEMS. ANY DAMAGE TO NEW BUILDING ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS THAT OCCURS DURING THE WORK SHALL BE RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF LANDSCAPED AREAS INCLUDING NATURAL SPACES MUST BE USED FOR BUILDING ACCESS. THE LANDSCAPING SHALL BE RETURNED TO ITS ORIGINAL CONDITION. THE CONTRACTOR SHALL INCLUDE COSTS IN THE BID FOR THIS WORK IF THIS APPROACH IS USED. THE OWNER WILL NOT PAY ANY ADDITIONAL COSTS TO COVER DAMAGE TO THE BUILDING SYSTEMS, LANDSCAPING OR DRIVE AREAS. COORDINATE THE FOLLOWING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND ELEMENTS AS INSTALLED, INCLUDING **EXISTING BUILDING SYSTEMS:** A. EXACT LOCATION OF ALL EQUIPMENT. B. ALL PENETRATIONS THRU ROOF, WALLS AND FLOORS. C. EXACT SIZE AND ROUTING OF PIPING. DRAWINGS INDICATE DIAGRAMMATICALLY THE ARRANGEMENT OF PRINCIPAL APPARATUS, PIPING, AND OTHER MATERIAL. FOLLOW DRAWING AS CLOSELY AS POSSIBLE, IN ORDER TO ACHIEVE A NEAT ARRANGEMENT OF PIPING AND EQUIPMENT WHILE STILL OVERCOMING OBSTRUCTIONS. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS, INCLUDING WATER SUPPLY INFORMATION, HAVE BEEN APPROVED BY THE LOCAL FIRE MARSHAL. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE AUTHORITY HAVING ALL EXISTING FIRE PROTECTION SYSTEMS SHALL REMAIN IN OPERATION DURING ALL PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT. . THE LOCATION OF FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FIRE PROTECTION COVERAGE OF ALL AREAS. PROVIDE DETAILED PLANS FOR APPROVAL PRIOR TO INSTALLATION. 10. HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, AND HVAC DIFFUSERS, RETURNS, ETC. PROVIDE PENDENT AND/OR UPRIGHT TYPE SPRINKLER HEAD WHERE REQUIRED. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THE PARTICULAR TRADE. PIPES, EQUIPMENT, ETC., TO BE INSTALLED LEVEL, SQUARE OR CENTERED, ETC., TO GIVE A NEAT AND PLEASING APPEARANCE. ALL EQUIPMENT IS TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL WORK WITH OTHER TRADES. 12. THE ANNULAR SPACE BETWEEN PIPE SLEEVES AND THE PIPE THROUGH ALL RATED WALLS AND FLOORS SHALL BE FIRESTOPPED. FIRESTOPPING OF ALL PIPE PENETRATIONS SHALL COMPLY WITH U.L. REQUIREMENTS. MANUFACTURER PREAPPROVED UI PENETRATION FOR PIPE MATERIAL AND SURFACE PENETRATED SHALL BE USED. PENETRATIONS SHALL BE 3M, PROSET, OR APPROVED EQUAL. SUBMIT SHOP DRAWINGS. A. ELECTRICAL CONTRACTOR: ALL POWER AND ALARM WIRING, CONDUITS, DISCONNECTS, AND FINAL CONNECTIONS. NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON PIPING AND NO RIGID ELECTRICAL CONNECTIONS SHALL BE B. GENERAL CONTRACTOR: CUTTING, FRAMING, PATCHING, FURRING, AND PAINTING. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL FIRE PROTECTION, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT. 16. IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION IS TO BE INCLUDED, WHETHER SPECIFICALLY SHOWN OR MENTIONED. THE ENGINEER WILL GIVE ANY INTERPRETATIONS NECESSARY FOR THE CONTRACTOR TO PROPERLY ESTIMATE THE 7. IT IS THE CONTRACTORS' RESPONSIBILITY TO PROVIDE FABRICATION OR SHOP CAD FILES WILL NOT BE PROVIDED

PBK

RANCHO CUCAMONGA

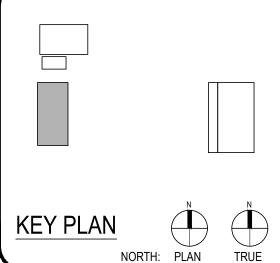
8163 Rochestser Avenue, Suite 100
Rancho Cucamonga
California 91730

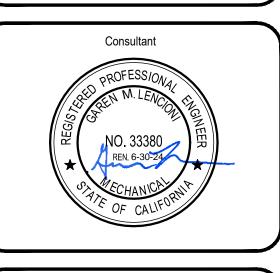
P 909-987-0909

ATION CENTER

PROJECT ADDRESS:
1442 South Bon View
Ontario, Ca 91761
CitySubmittal - Rgistrati









CLIENT
ONTARIO - MONTCLAIR SCHOOL DISTRICT
DATE PROJECT NUMBER
3/3/23 220316

REVISIONS

CitySubmittal - Rgistration #B202301766

FIRE SPRINKLER
SHEET INDEX, LEGEND

FS0.00

AND NOTES

KEYNOTES 1) EXISTING FIRE MAIN TO REMAIN. 2 EXISTING FIRE SPRINKER HEADS TO REMAIN. PBK Architects, Inc.

RANCHO CUCAMONGA

8163 Rochestser Avenue, Suite 100

Rancho Cucamonga

California 91730

P 909-987-0909 DISPACHER ROOM MENS RESTROOM DIRECTOR ROOM TRAINER ROOM SECRETARY WOMENS RESTROOM TRAINING ROOM CORRIDOR **ELECTRICAL** SHOP TOILET OFFICE ROOM STORAGE ROOM SERVICE BAYS CitySubmittal - Rgistration #B202301766 FIRE SPRINKLER **FIRST FLOOR PLAN** 01 FIRE SPRINKLER FIRST FLOOR PLAN

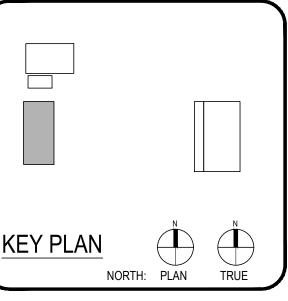
1/8" = 1'-0"

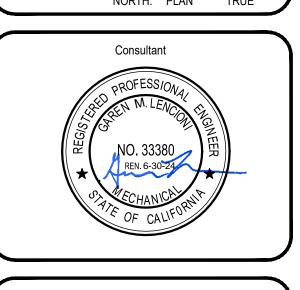
FS1.02

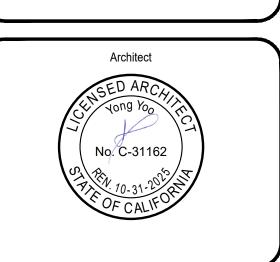
RANCHO CUCAMONGA PBK.com 8163 Rochestser Avenue, Suite 100 1. MAIN DRAIN-TO TERMINATE Rancho Cucamonga OUTSIDE BUILDING FACE California 91730 P 909-987-0909 FINISHED GRADE 3. 2" ANNULAR CLEARANCE 4. FLEXIBLE COUPLING TRANSITION TO BUILDING PIPE RISER SIZE AS REQUIRED FOR DESIGN. SPARE HEAD BOX. 6-SSP 6. HYDRAULIC CALC PLATE 7. 10" ELECTRIC BELL MOUNTED ON EXTERIOR WALL WIRED TO FLOWSWITCH AND FIRE ALARM SYSTEM 8. SUPPLY TO 1ST FLOOR OVERHEAD FIRE SPRINKLER SYSTEM 9. FROM UNDERGROUND FIRE LINE 10. AMES 8" IBR 11. AGF TEST N DRAIN 1011A WITH RELIEF VALVE AND $\frac{1}{2}$ " ORIFICE. 12. 300# GAUGE 13. FLOWSWITCH 14. RISER CHECK VALVE 15. THRUST BLOCK 16. SUPPLY TO 2ND FLOOR OVERHEAD FIRE SPRINKLER SYSTEM 17. LATERAL AND LONGITUDINAL EARTHQUAKE BRACE MOUNTED TO FLOOR/ROOF STRUCTURE WITHIN 2' OF TOP OF RISER FOR CENTE EACH FLOOR. NOTE:
COORDINATE WITH SITE
CONTRACTOR TO ALLOW TERMINATION OF IBR IN FIRE RISER ROOM CODED REQUIRED ACCESS. (E) FIRE SPRINKLER RISER (REF. ONLY) _{N.T.S} 01 T-BAR CEILING
 EXPANSION PLATE CLEARANCE KEY PLAN PENDENT SPRINKLER THROUGH CEILING _{N.T.S} 02 Consultant ANVIL FIG. 93 TOP BEAM C-CLAMP 2. SET SCREW AND LOCKNUT 3. %"ALL THREAD ROD4. ANVIL FIG. 69 ADJUSTABLE SWIVEL RING HANGER

5. ANVIL AF090 RETAINING

STRAP - 1" - 15 GA. VIEW A-A C-CLAMP HANGER HANGER TO WIDE FLANGE BEAM







	CLII	ENT	
ONTA	ARIO - MONTCLA	IR SCHOOL	DISTRICT
	DATE	PROJECT	-
DE\//0	3/3/23	220	316
REVIS	IONS		B-4-
NO.	Descript	1011	Date
City	Submittal - Rgis	tration #B20	2301766
	FIRE SPI	RINKLE AILS	R

DRAWING INDEX

TECHNOLOGY PLAN GENERAL NOTES

- 1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION, NETWORK, AUDIO/VIDEO, SECURITY AND FIRE ALARM EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHERE POSSIBLE. CONTRACTOR SHALL COORDINATE AND INSTALL ALL 120V POWER REQUIREMENTS AND LOCATIONS AS REQUIRED FOR ALL EQUIPMENT (TYPICAL).
- 2. CONTRACTOR SHALL COORDINATE WITH THE TECHNOLOGY CONSULTANT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY INSTALLED WITHOUT WRITTEN APPROVAL OF THE TECHNOLOGY CONSULTANT.

THE PROJECT'S ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUITS.

- PULL STRINGS, BACK BOXES AND SLEEVES REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.
- 4. THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND DESCRIPTION.
- 5. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSI/EIA/TIA, BICSI, AND THE NEC.
- 6. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.
- 7. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.
- 8. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES AND ALL OTHER LOW VOLTAGE CABLING IN ANY PARALLEL OPEN
- 9. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.
- 10. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER THE TECHNOLOGY DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND
- CONSULTANT. 11. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE
- BETWEEN BUILDINGS AND EXTERIOR MOUNTED DEVICES. 12. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-
- RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT. 13. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.
- 14. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
- 15. CONTRACTOR SHALL ROUTE ALL LOW VOLTAGE CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS. ENTER INTO ALL ROOMS FROM THE
- CORRIDOR ABOVE THE MAIN DOORWAY. 16. ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES AND THEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP

ABOVE EACH OUTLET LOCATION.

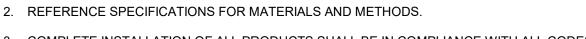
- 17. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEM OR OTHER SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. CABLING SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. IN LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING IN ANY LOCATION.
- 18. CONTRACTOR SHALL PROVIDE TWO (2) CAT6/6A CABLES ROUTED TO THE FIRE ALARM CONTROL PANEL. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- 19. ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL
- 20. 21ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.
- 21. CONTRACTOR SHALL PROVIDE TWO (2) CAT6/6A CABLES TO THE ACCESS CONTROL HEAD-END. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- 22. CONTRACTOR TO PROVIDE TWO (2) CAT6/6A CABLES TO THE BUILDING AUTOMATION SYSTEM AT EACH BAS HEAD-END LOCATION. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- 23. CONTRACTOR TO PROVIDE TWO (2) CAT6/6A CABLES TO THE AREA OF REFUGE SYSTEM. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.
- 24. CONTRACTOR SHALL PROVIDE (1) CAT6/6A CABLE FOR EACH IP CAMERA AND IP SPEAKER ROUTED TO NEAREST IDF. COORDINATE WITH OTHER TRADES.
- 25. CONTRACTOR SHALL PROVIDE (2) CAT6/6A CABLES ROUTED TO THE ELEVATOR FOR THE FIRE-FIGHTER TELEPHONE.
- 26. CONTRACTOR SHALL PROVIDE (1) CAT6/6A CABLE TO THE INTRUSION DETECTION SYSTEM **HEAD-END**

GROUP	T	ECHNOLOGY LEGEND
GR(SYMBOL	DESCRIPTION
	∇	INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACEPLATE WITH A MINIMUM OF 4-PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. PROVIDE BLANK COVERS ON UNUSED PORTS. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF CAT6/6A CABLES INSTALLED AT THIS LOCATION.
DEVICES	•	INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET. CONTRACTOR SHALL MOUNT THIS OUTLET AT +12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT. D# INDICATES NUMBER OF CAT6/6A CABLES INSTALLED AT THIS LOCATION.
		INDICATES THE LOCATION OF A FLOOR MOUNTED OUTLET. CONTRACTOR TO PROVIDE AND INSTALL (2) 1-1/2" CONDUITS FROM BOX TO NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF CAT6/6A CABLES INSTALLED AT THIS LOCATION.
	'AP'	INDICATES A CEILING-MOUNTED WIRELESS ACCESS POINT CONNECTION. CONTRACTOR SHALL PROVIDE AND INSTALL (1) CAT6/6A CABLES ROUTED TO NEAREST IDF. PROVIDE BOX AND CONDUIT AS NOTED FOR CEILING MOUNTED OUTLETS. PROVIDE (1) 15' PLENUM PATCH CABLE FOR EACH LOCATION INSTALLED. PROVIDE 10' SERVICE LOOP UPSTREAM OF TERMINATION POINT.

- 1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS. REFER TO GENERAL
- 3. COMPLETE INSTALLATION OF ALL PRODUCTS SHALL BE IN COMPLIANCE WITH ALL CODES, INDUSTRY STANDARDS, COMMON PRACTICES AND MANUFACTURER'S INSTRUCTIONS.
- 4. ALL CONDUIT STUB-OUTS SHALL BE EQUIPPED WITH A PLASTIC PROTECTIVE BUSHING TO

TECHNOLOGY LEGEND		
BOL	DESCRIPTION	
∇	INDICATES THE LOCATION OF A NEW TECHNOLOGY OUTLET. CONTRACTOR TO PROVIDE FACEPLATE WITH A MINIMUM OF 4-PORTS AT EACH LOCATION UNLESS OTHERWISE NOTED. PROVIDE BLANK COVERS ON UNUSED PORTS. ELECTRICAL CONTRACTOR TO PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER RING AND A 1" CONDUIT FROM THE BOX TO THE NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF CAT6/6A CABLES INSTALLED AT THIS LOCATION.	
	INDICATES THE LOCATION OF A CEILING MOUNTED OUTLET. CONTRACTOR SHALL MOUNT THIS OUTLET AT +12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT. D# INDICATES NUMBER OF CAT6/6A CABLES INSTALLED AT THIS LOCATION.	
	INDICATES THE LOCATION OF A FLOOR MOUNTED OUTLET. CONTRACTOR TO PROVIDE AND INSTALL (2) 1-1/2" CONDUITS FROM BOX TO NEAREST ACCESSIBLE CEILING. D# INDICATES NUMBER OF CAT6/6A CABLES INSTALLED AT THIS LOCATION.	
'AP'	INDICATES A CEILING-MOUNTED WIRELESS ACCESS POINT CONNECTION. CONTRACTOR SHALL PROVIDE AND INSTALL (1) CAT6/6A CABLES ROUTED TO NEAREST IDF. PROVIDE BOX AND CONDUIT AS NOTED FOR CEILING MOUNTED OUTLETS. PROVIDE (1) 15' PLENUM PATCH CABLE FOR FACH LOCATION INSTALLED. PROVIDE	

ELECTRICAL NOTES FOR WALL-MOUNTED DEVICE MOUNTING HEIGHTS.



PREVENT CABLE DAMAGE.

<u>DESCRIPTION</u>

TECHNOLOGY SYMBOLS, LEGENDS & GENERAL NOTES

TECHNOLOGY DEMOLITION ENLARGED PLANS TECHNOLOGY SECOND FLOOR PLAN & DETAILS

T0.00

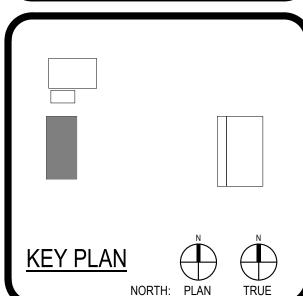


8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987-0909 leafengineers.com

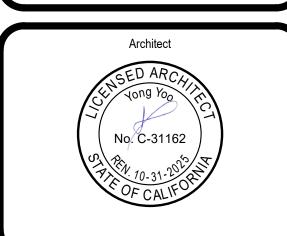
REVIEWED CODE COMPLIANCE Dec 15, 2023 BPR CONSULTING GROUP

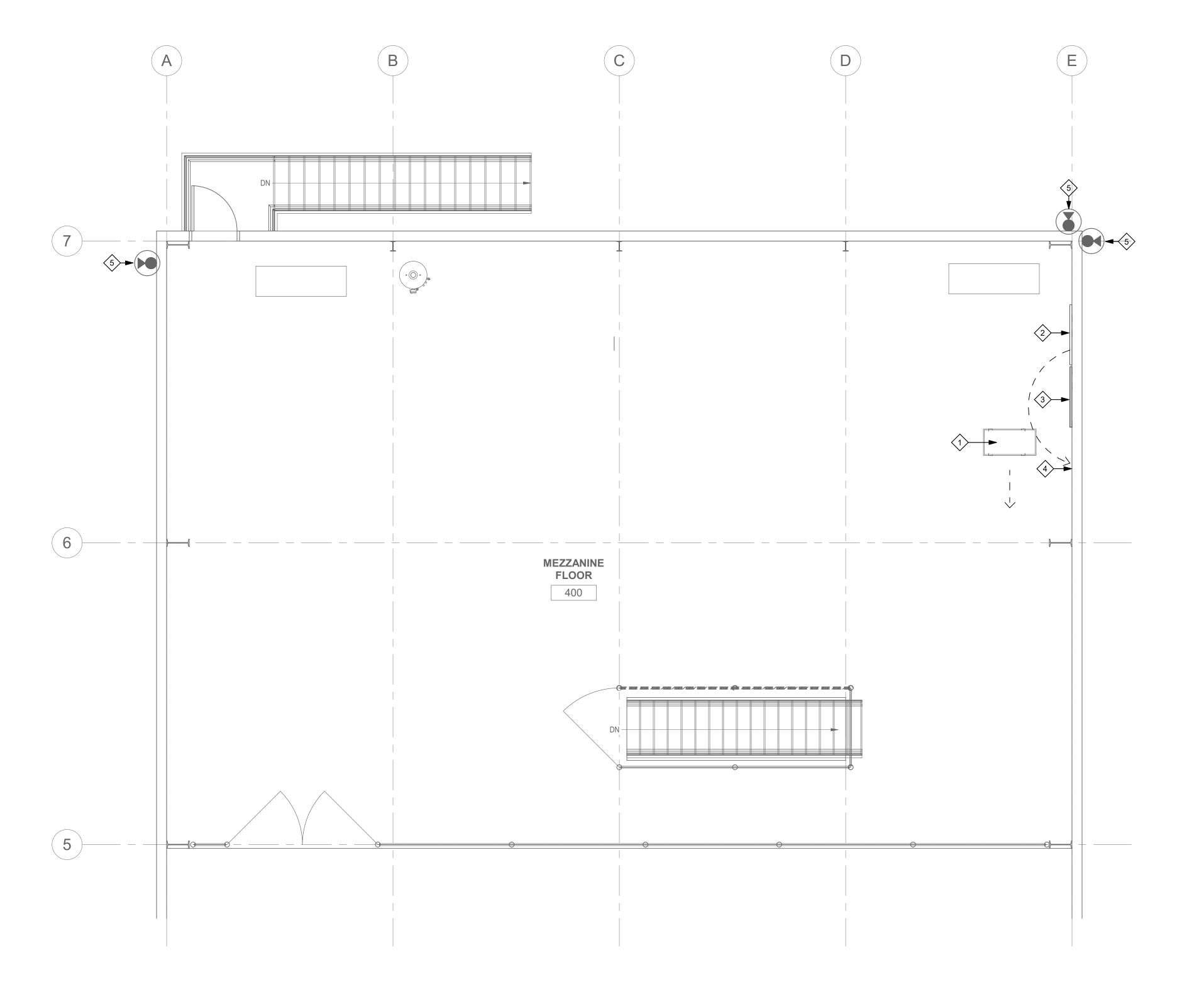
| こ











TECHNOLOGY DEMOLITION GENERAL NOTES:

- A. CONTRACTOR IS LIABLE FOR ANY DAMAGE SUSTAINED TO EXISTING SYSTEMS AND UTILITIES THAT OCCURS DURING CONSTRUCTION.
- B. CONTRACTOR SHALL RECORD ALL FUNCTIONING AND NON-FUNCTIONING CABLING, DEVICES, AND EQUIPMENT. CONTRACTOR SHALL PROVIDE PRICING TO THE ARCHITECT FOR THE REPAIR/REPLACEMENT OF FAULTY DEVICES/CABLING.

*** TECHNOLOGY DEMOLITION KEYED NOTES**

- 1. LOCATION OF EXISTING DATA RACK. CONTRACTOR SHALL CAREFULLY RELOCATE DATA RACK, ALL MOUNTED COMPONENTS, INCOMING FIBER AND/OR COPPER TO NEW LOCATION INDICATED. REFER TO SHEET TN2.01. 2. LOCATION OF EXISTING DATA DEVICES, NETWORK AND SECURITY ENCLOSURES ON 8' X 10' PLYWOOD. CONTRACTOR SHALL CAREFULLY RELOCATE PLYWOOD WALL AND ALL EXISTING DATA / SECURITY DEVICES TO NEW LOCATION. PROVIDE NEW CABLING IF EXISTING CABLING WILL NOT REACH THE NEW LOCATION. CONTRACTOR SHALL VERIFY OPERATION OF ALL DEVICES PRIOR TO CONSTRUCTION.
- 3. PLYWOOD BACKBOARD IS EXISTING TO REMAIN. ALL DEVICES, PANELS, AND CABLING SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.
- 4. INDICATES NEW LOCATION OF RELOCATED PLYWOOD BACKBOARD AND ITS EXISTING MOUNTED DEVICES.
- 5. INDICATES THE LOCATION OF AN EXISTING SECURITY CAMERA. DEVICE SHALL BE STORED AND PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL RECONNECT DEVICE TO ITS ORIGINAL LOCATION AFTER CONSTRUCTION.







CONSULTANT

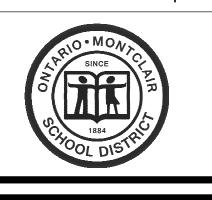
8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987-0909

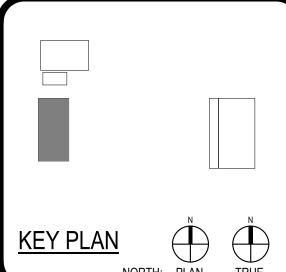
leafengineers.com

REVIEWED CODE COMPLIANCE

Dec 15, 2023

BPR CONSULTING GROUP

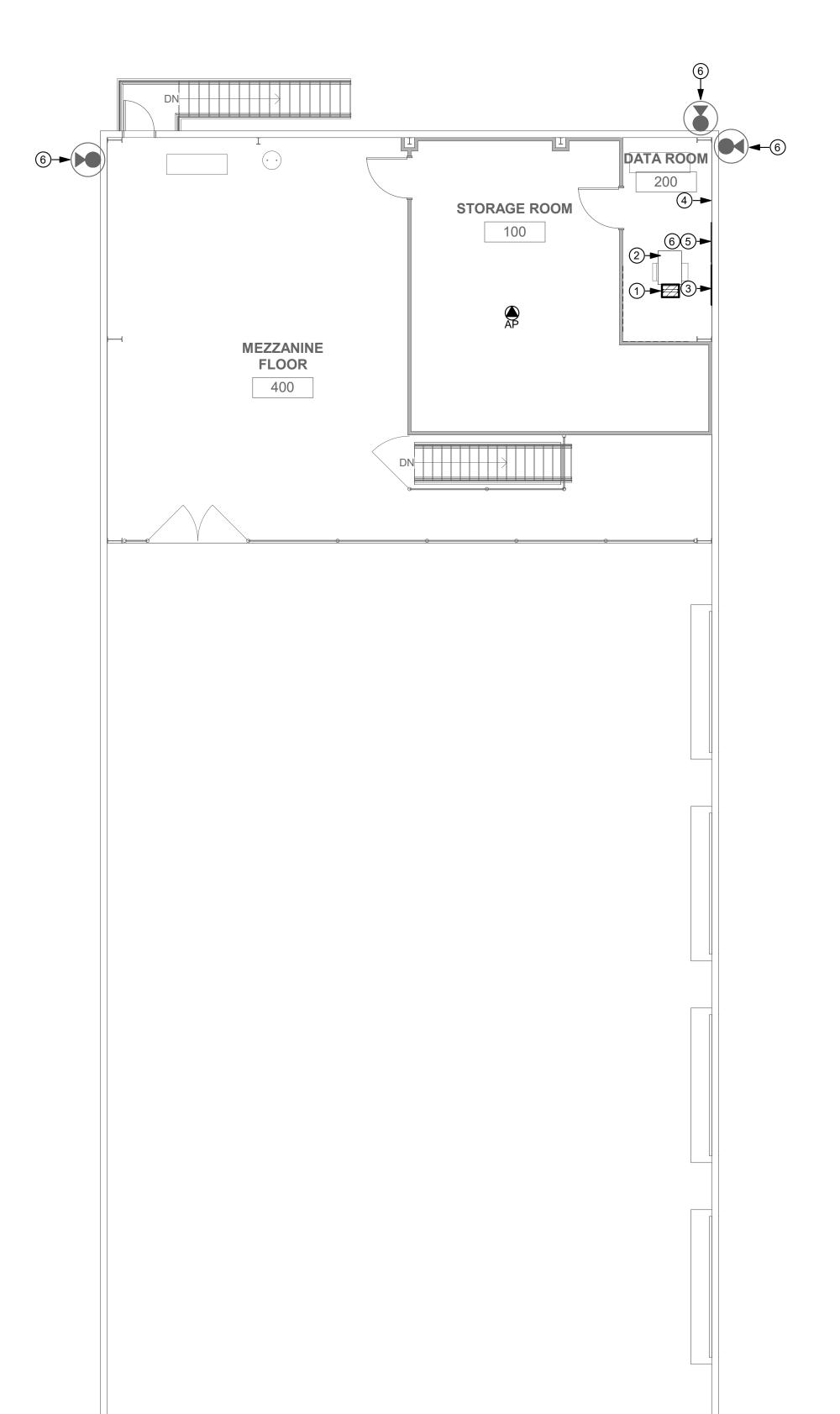


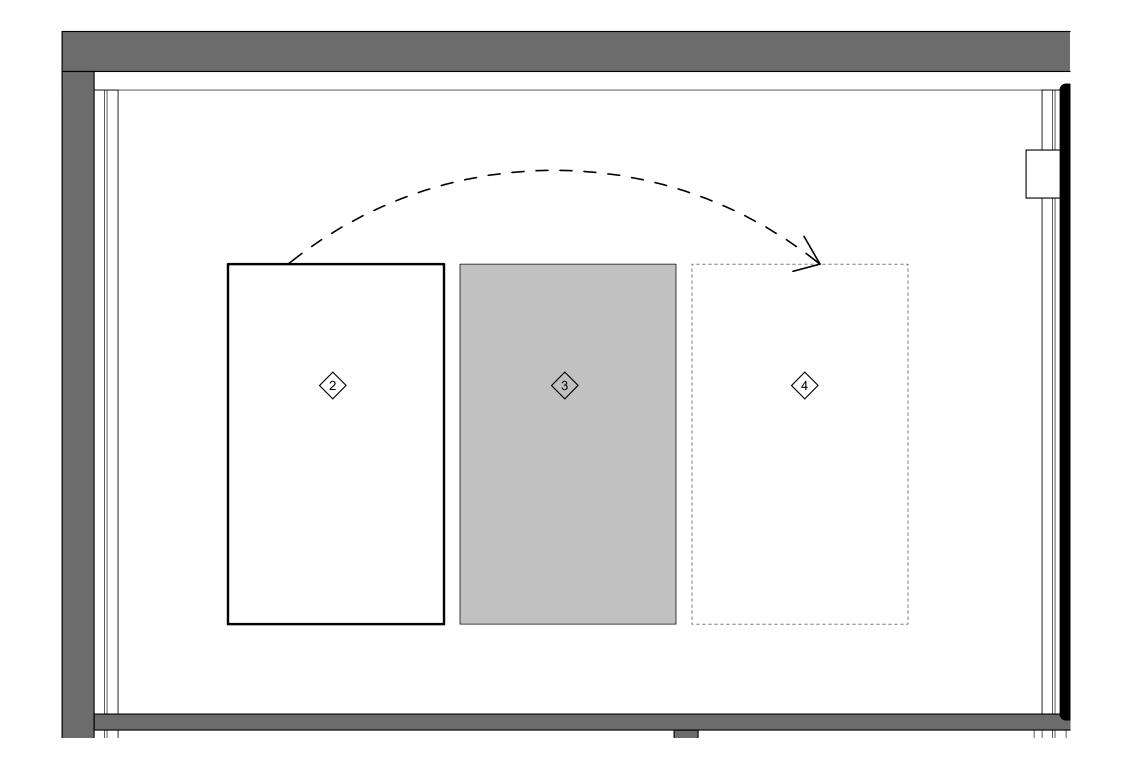




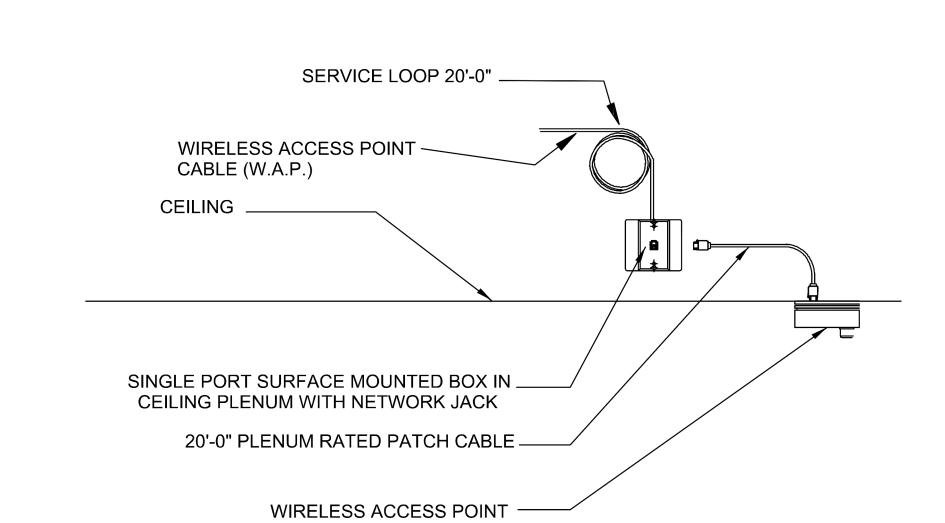


	CLIE	ENT	
ONT	ARIO - MONTCLA	IR SCHOOL	DISTRIC
DATE		PROJECT NUMBER	
3/3/23 REVISIONS		220316	
		•	
No.	No. Description		Date
City	ySubmittal - Rgist	ration #B20	2301766
DE	TECHNO MOLITION PLA	ENLA	





1 IDF ROOM ELEVATION



TECHNOLOGY GENERAL NOTES

- A. CONTRACTOR SHALL RELOCATE EXISTING DATA RACK NEAR SOUTH WALL AND VERIFY A MINIMUM 3FT. CLEARANCE ON EITHER SIDE OF DATA RACK PRIOR TO FINAL MOUNT LOCATION. B. CONTRACTOR SHALL CAREFULLY RELOCATE ALL EXISTING DATA AND SECURITY DEVICES ON PLYWOOD WALL TO NEW LOCATION. CONTRACTOR SHALL VERIFY OPERATION OF ALL DEVICES TO BE RELOCATED PRIOR TO CONSTRUCTION.
- C. THE CONTRACTOR SHALL VERIFY OPERATION OF ALL RELOCATED DATA AND SECURITY EQUIPMENT AFTER CONSTRUCTION.
- D. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES INCURRED DURING CONSTRUCTION.
- E. THE CONTRACTOR SHALL PROVIDE ALL MEANS NECESSARY TO FULLY PROTECT ALL EQUIPMENT WHILE WORKING IN THE MDF/IDF.
- F. THE CONTRACTOR SHALL SEAL ALL SLEEVES AND CONDUITS PRIOR TO COMPLETION.
- G. THE CONTRACTOR SHALL REPLACE ANY EXISTING JET-LINE/MULE TAPE USED.
- H. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILE THAT MAY OCCUR DURING
- I. CONTRACTOR TO PROVIDE THRU WALL SLEEVES AT ALL CMU WALLS. J. REFERENCE SPECIFICATIONS FOR MATERIALS AND METHODS ON ALL ITEMS LISTED BELOW.

1 TECHNOLOGY KEYED NOTES

- 1. INDICATES NEW LOCATION OF RELOCATED DATA RACK.
- 2. INDICATES EXISTING LOCATION OF DATA RACK TO BE RELOCATED.
- 3. INDICATES NEW LOCATION FOR RELOCATED PLYWOOD BACKBOARD. CONTRACTOR SHALL PROVIDE CUTOUTS FOR EXISTING AND RELOCATED ELECTRICAL RECEPTICLES.
- 4. INDICATES EXISTING LOCATION OF PLYWOOD BACKBOARD TO BE RELOCATED.
- 5. INDICATES THE LOCATION OF A EXISTING PLYWOOD BACKBOARD. ALL DEVICES, PANELS, AND
- CABLING SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.

6. INDICATES AN EXISTING DEVICE TO REMAIN.

TECHNOLOGY DEMOLITION KEYED NOTES

- 1. LOCATION OF EXISTING DATA RACK. CONTRACTOR SHALL CAREFULLY RELOCATE DATA RACK, ALL MOUNTED COMPONENTS, INCOMING FIBER AND/OR COPPER TO NEW LOCATION INDICATED. REFER TO SHEET TN2.01. 2. LOCATION OF EXISTING DATA DEVICES, NETWORK AND SECURITY ENCLOSURES ON 8' X 10' PLYWOOD. CONTRACTOR SHALL CAREFULLY RELOCATE PLYWOOD WALL AND ALL EXISTING DATA / SECURITY DEVICES TO
- 3. PLYWOOD BACKBOARD IS EXISTING TO REMAIN. ALL DEVICES, PANELS, AND CABLING SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.

NEW LOCATION. PROVIDE NEW CABLING IF EXISTING CABLING WILL NOT REACH THE NEW LOCATION.

CONTRACTOR SHALL VERIFY OPERATION OF ALL DEVICES PRIOR TO CONSTRUCTION.

- 4. INDICATES NEW LOCATION OF RELOCATED PLYWOOD BACKBOARD AND ITS EXISTING MOUNTED DEVICES.
- 5. INDICATES THE LOCATION OF AN EXISTING SECURITY CAMERA. DEVICE SHALL BE STORED AND PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL RECONNECT DEVICE TO ITS ORIGINAL LOCATION AFTER CONSTRUCTION.

B202301766 City of Ontario | Building Department APPROVED & REVIEWED FOR CODE COMPLIANCE

The issuance of a permit and approval of these plans shall not be construed to permit or approve any violation of the applicable codes or ordinances. Date: 01/16/2024 1:34:40 PM

RANCHO CUCAMONGA 8163 Rochestser Avenue, Suite 100

Rancho Cucamonga California 91730 P 909-987-0909

CONSULTANT

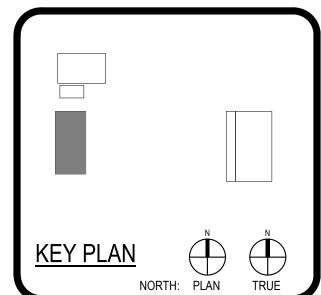
LEAF

8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987-0909 leafengineers.com

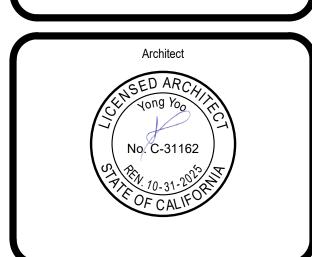
LEAF Engineers

REVIEWED CODE COMPLIANCE Dec 15, 2023

BPR CONSULTING GROUP







ONTARIO - MONTCLAIR SCHOOL DISTRICT PROJECT NUMBER 220316 CitySubmittal - Rgistration #B202301766 TECHNOLOGY SECOND **FLOOR PLAN & DETAILS**

3 ACCESS POINT MOUNTING DETAIL

12" = 1'-0"