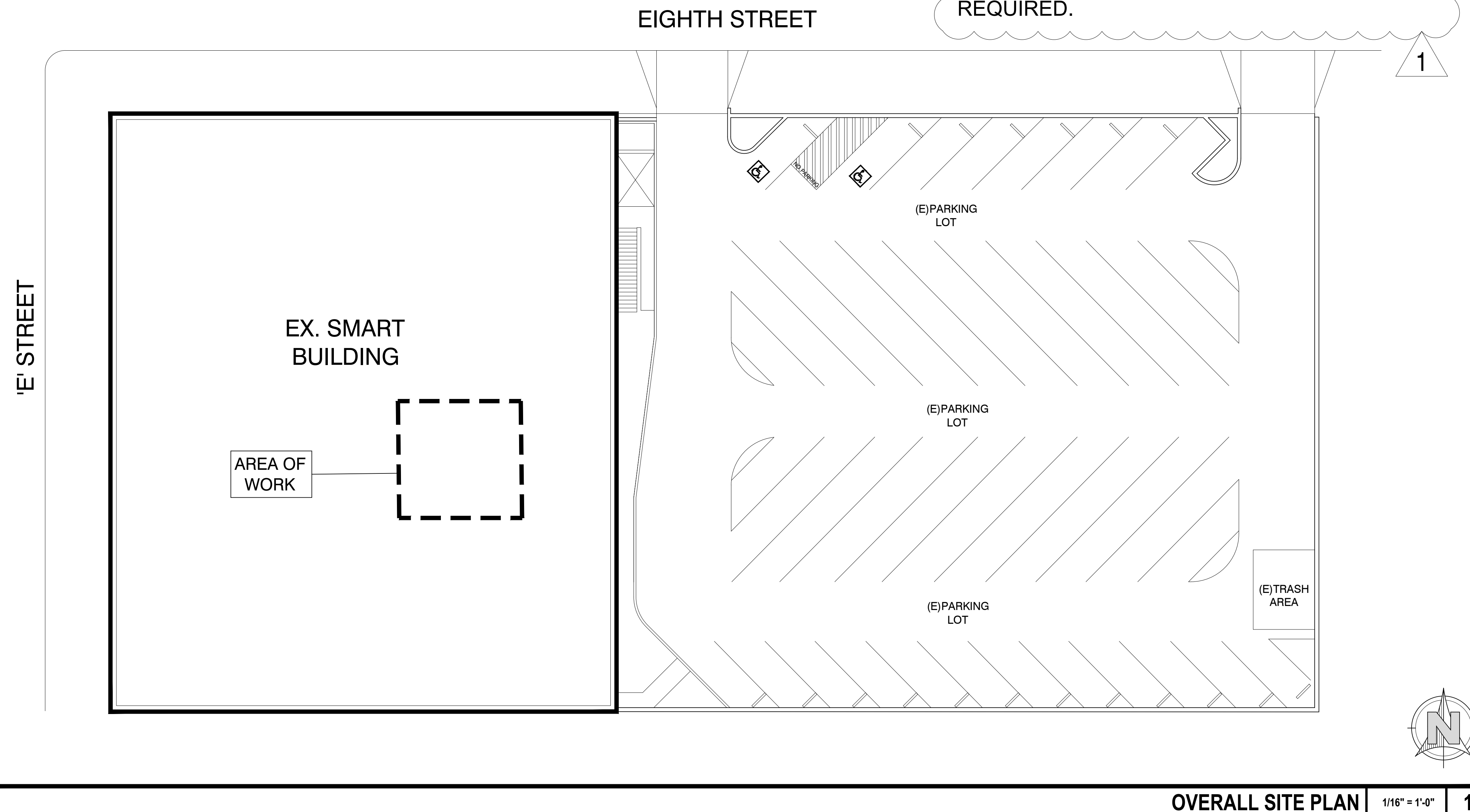


SMART BUILDING INTERIOR RENOVATIONS

793 NORTH E. STREET SAN BERNARDINO, CA 92410

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

NOTE:
THE AREA OF WORK IS PART OF AN EXISTING SPACE IN A PROFESSIONAL DEVELOPMENT CENTER ADMINISTRATION BUILDING. IT IS NOT A SCHOOL BUILDING, HENCE NO DSA FILING REQUIRED.



SHEET INDEX

A-1.0 GENERAL NOTES & OVERALL SITE PLAN
A-2.0 FLOOR PLANS
A-3.0 REFLECTED CEILING PLAN
A-4.0 DOOR SCHEDULE AND TYPICAL DETAILS
A-5.0 CEILING & PARTITION DETAILS
A-6.0 MECHANICAL DEMO & FLOOR PLAN
A-7.0 SYMBOLS, NOTES & SPECS
A-8.0 PARTIAL LIGHTING/ POWER PLAN-DEMO PLAN ELECTRICAL

SCOPE OF WORK

PROPOSED INTERIOR RENOVATIONS TO EXISTING OFFICE SPACE INSIDE SMART BUILDING.

BUILDING INFORMATION

BUILDING AREA 18,104.0 SFT
T.I. WORK AREA 1,165.0 SFT
NUMBER OF STORIES 1
CONSTRUCTION TYPE I-B
OCCUPANCY GROUP B
FLOOR AREA ALLOWANCE PER OCCUPANT FOR 'B' 100 GROSS
MAX. OCCUPANT LOAD 1165 / 100 = 11.6 ~ 11 PERSONS MAX.
PROPOSED OCCUPANT LOAD 6 PERSONS
SPRINKLERS EXISTING NON-SPRINKLED

PROJECT DIRECTORY

CLIENT / OWNER:
SBCUSD
777 NORTH F. STREET
SAN BERNARDINO, CA 92410
(909) 381-1100

MECHANICAL ENGINEER:
ENGINEOUS GROUP INC.
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PASADENA, CA 91103
(626) 696-3850
BRAD SEVERSON
brad@engineousgroup.com

ARCHITECT:
DC ARCHITECTS
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(909) 985-0864 FAX
RICHARD DUNCAN
rduncan@dcarchitects.net

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(626) 696-3850
DAVE L. EVANS
devans123@earthlink.net

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES:

Part 1 2016 California Building Standards Administrative Code (CBSAC), Title 24 C.C.R.
Part 2 2016 California Building Code (CBC), Title 24 C.C.R.
(2015 International Building Code of the International Code Council with California Amendments)
Part 3 2016 California Electrical Code (CEC), Title 24 C.C.R.
(2014 National Electrical Code of the National Fire Protection Association, NFPA)
Part 4 2016 California Mechanical Code (CMC), Title 24 C.C.R.
(2015 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 5 2016 California Plumbing Code (CPC), Title 24 C.C.R.
(2015 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 6 2016 California Energy Code, Title 24 C.C.R.
Part 9 2016 California Fire Code (CFC), Title 24 C.C.R.
(2015 International Fire Code of the International Code Council)
Part 10 2016 California Existing Building Code, Title 24 C.C.R.
Part 11 2016 California Green Building Standards Code (CALGreen Code), Title 24 C.C.R.
Part 12 2016 California Referenced Standards Code (CRSC), Title 24 C.C.R.
Title 19 C.C.R., Public Safety, State Fire Marshall Regulations.

PARTIAL LIST OF APPLICABLE STANDARDS:

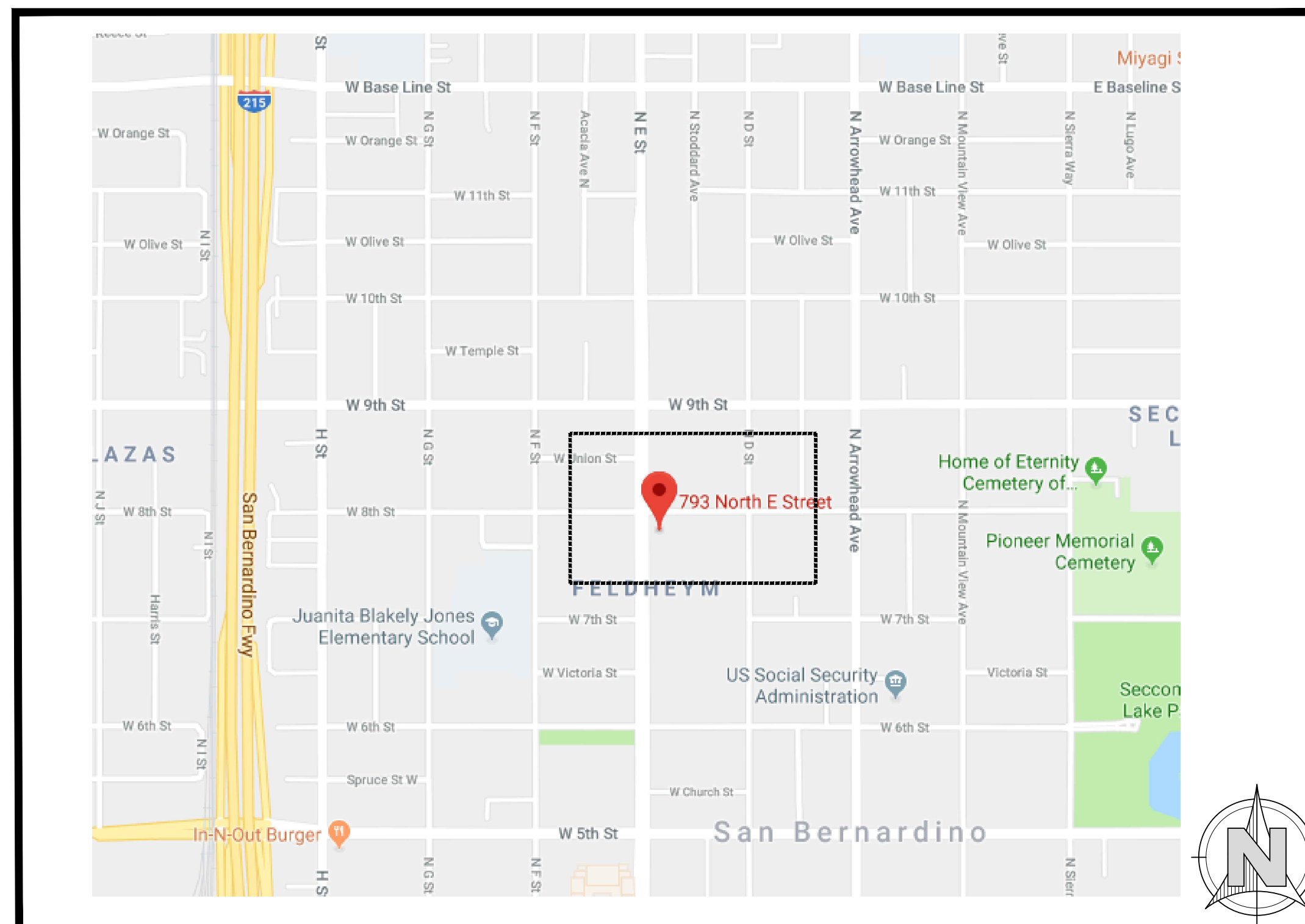
NFPA Standards – 2016 California Building Code (SFM) Chapter 35

NFPA 17	Dry Chemical Extinguishing Systems	2016 Edition
NFPA 17A	Wet Chemical Extinguishing Systems	2016 Edition
NFPA 20	Stationary Pumps	2016 Edition
NFPA 24	Private Fire Service Mains (California Amended)	2016 Edition
NFPA 72	National Fire Alarm Code (California Amended)	2016 Edition
NFPA 80	Fire Door and Other Opening Protectives	2016 Edition
NFPA 2001	Clean Agent Fire Extinguishing Systems	2015 Edition

ABBREVIATIONS

ARCH	ARCHITECTURAL	EQUIP	EQUIPMENT	MIN	MINIMUM	RO	ROUGH OPENING
BD	BOARD	EST	EXISTING	MB	MARKERBOARD	SB	SPLASH BLOCK
BETW	BETWEEN	EXP	EXPANSION	MISC	MISCELLANEOUS	SC	SOLID CORE
BLKG	BLOCKING	EXT	EXTERIOR	MTD	MOUNTED	SECT	SECTION
BOT	BOTTOM			MTG	MOUNTING	SEG	SEGMENT
BS	BOTH SIDES			MULL	MULLION	SGE	SEMI GLOSS ENAMEL
BU	BUILT UP	FA	FIRE ALARM	N/A	NOT APPLICABLE	SHR	SHOWER
BUR	BUILT-UP ROOFING	FIN	FINISH	NTS	NOT TO SCALE	SHTG	SHEATHING
		FLR	FLOOR			SK	SINK
C/C	CENTER TO CENTER	FOF	FACE OF FINISH	OC	ON CENTER	SPEC	SPECIFICATION
CAB	CABINET	FOS	FACE OF STUD	OD	OUTSIDE DIAMETER	SQ	SQUARE
CARP	CARPET	FT	FOOT OR FEET	O.H.	OPPOSITE HAND	SSK	SERVICE SINK
CB	CHALKBOARD	GL	GLASS	OPNG	OPENING	ST	STREET
CEM	CEMENT	GR BM	GRADE BEAM	OPP	OPPOSITE	STAG	STAGGERED
CER	CERAMIC	GYP	GYPSPUM	OPT	OPTIONAL	STD	STANDARD
CIP	CAST IRON PIPE			ORIG	ORIGINAL	STIF	STIFFENER
CL	CONCRETE MASONRY UNIT	H&CW	HOT & COLD WATER	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED	STIR	STIRRUP
CLG	CLEAR	HB	HEAD			STL	STEEL
CLM	CONCRETE MASONRY UNIT	HDP	HEADER	O.F.O.I.	OWNER FURNISHED, OWNER INSTALLED	STOR	STORAGE
COL	COLUMN	HDR	HORIZONTAL	PERF	PERFORATED	STRUC	STRUCTURAL
COMPO	COMPOSITION	HDW	HARDWARE	PIV	POST INDICATOR VALVE	SUSP	SUSPENDED
CONN	CONCRETE	HMT	HOLLOW METAL	PKG	PACKAGE	SY	SYMMETRICAL
CONSTR	CONSTRUCTION	HORIZ	HORIZONTAL	PL	PLASTER	T&B	TOP & BOTTOM
CONT	CONTINUOUS	HR	HEATER	PLAS	PLASTER	T&G	TONGUE & GROOVE
CP	CONTROL PANEL	HTR	HOT WATER	P.L.	PROPERTY LINE	TB	TACKBOARD
CSK	COUNTERSINK	HYD	HYDRANT	PLYWD	PLYWOOD	TEL	TELEPHONE
		ID	INSIDE DIAMETER	PNL	PANEL	TEMP	TEMPERED
DBL	DOUBLE	IN	INCH	PR	PREFABRICATED	TERM	TERMINAL
DEC	DECOMPOSED	INSUL	INSULATION	PREFAB	PREFABRICATED	THICK	THICKNESS
DEMO	DEMOLITION	INT	INTERIOR	PROP	PROPERTY	THRES	THRESHOLD
DEPT	DEPARTMENT	INV	INVERT	PREFIN	PREFINISHED	THRU	THROUGH
DET	DETAIL	KD	KNOCK DOWN	PRELUM	PRELUMINARY	TOW	TOP OF WALL
		KO	KNOCK OUT	PROP	PROPERTY	TYP	TYPICAL NOTED
EA	EACH	LAM	LAMINATED	PSF	POUNDS PER SQUARE FOOT	UNO	UNLESS OTHERWISE
ELEV	ELEVATION	LAV	LAVATORY	PT	POINT	VERIF	VERIFY
		LF	LINEAR FOOT	PVC	POLYVINYLCHLORIDE	WD	WOOD
				RA	RETURN AIR	WDW	WINDOW
				RAD	RADIUS		

VICINITY MAP



- XX
- DEMOLITION KEY NOTES
- 01

REMOVE EXISTING FULL HEIGHT INTERIOR PARTITION.
- 02

REMOVE EXISTING LOW HEIGHT INTERIOR PARTITION.
- 03

REMOVE EXISTING DOOR AND ALL ASSOCIATED HARDWARE.

- XX

FLOOR PLAN KEY NOTES
- 01

NEW INTERIOR PARTITION - END 6" ABOVE EXISTING CEILING. SEE STRUCTURAL DETAILS FOR BRACING INFORMATION AND WALL LEGEND FOR CONSTRUCTION INFORMATION.
- 02

PATCH AND REPAIR THE DAMAGED FLOOR UPON PARTITION REMOVAL. FLOOR FINISH TO MATCH EXISTING.



CITY Approval Stamp

REVISIONS

DC | ARCHITECTS



INTERIOR RENOVATION
SMART BUILDING
793 NORTH E. STREET
SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY U.S.D.

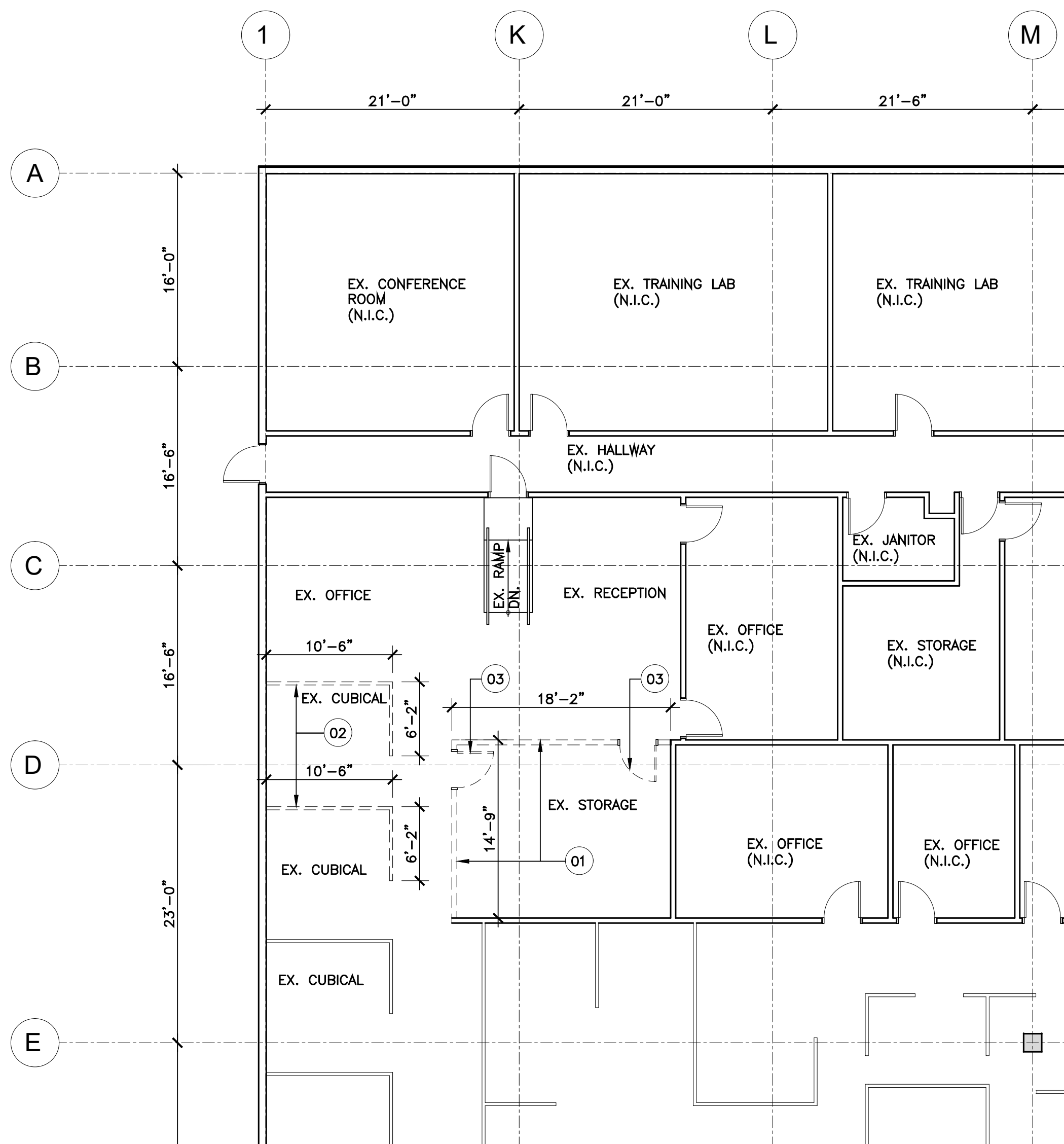
DEMOLITION FLOOR PLAN

JOB NUMBER:
2019-001
DRAWN BY:
PS
DATE:
03/07/2019
SCALE:

A-2.0

FLOOR PLAN LEGEND

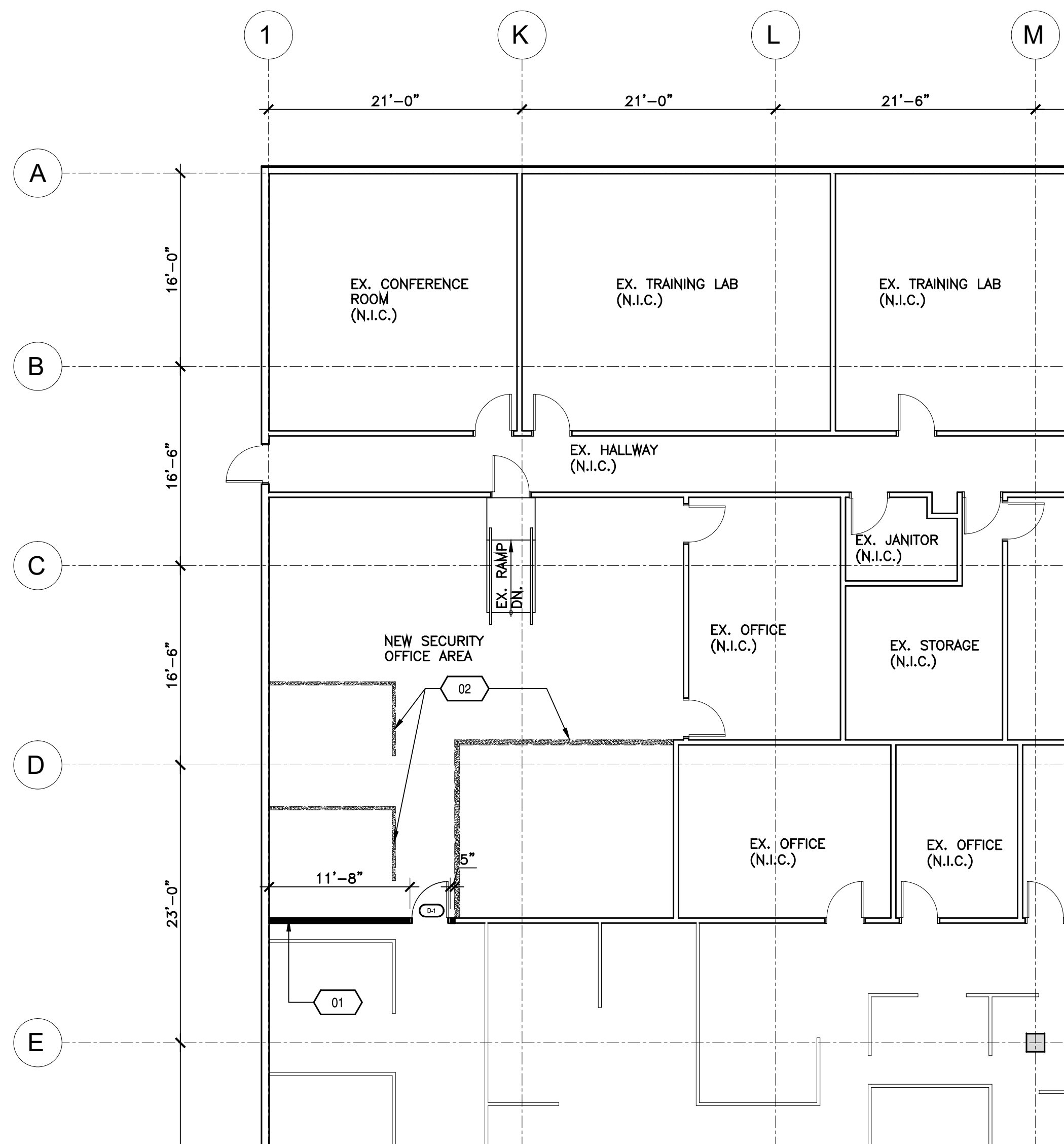
- NEW INTERIOR WALLS:
2x4 MD. STUDS @ 16" O.C. w/ ONE LAYER OF
5/8" TYPE "X" GYP. BD. ON BOTH SIDES AND ACOUSTIC
INSULATION, TYP., U.N.O. ALL NON BEARING
WALLS TO TERMINATE 6" ABOVE CLG. AND BRACED TO
ROOF PER DETAILS, TYP. U.N.O.
NEW WALL PAINT FINISH TO MATCH EXISTING FINISHED
INTERIORS OF THE AREA
- NEW FLOOR PATCH:
PATCH EXISTING DAMAGED FLOOR WITH THE CARPET
TILE TO MATCH EXISTING



DEMOLITION FLOOR PLAN

1/4" = 1'-0"

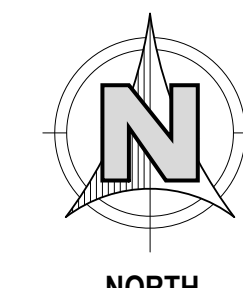
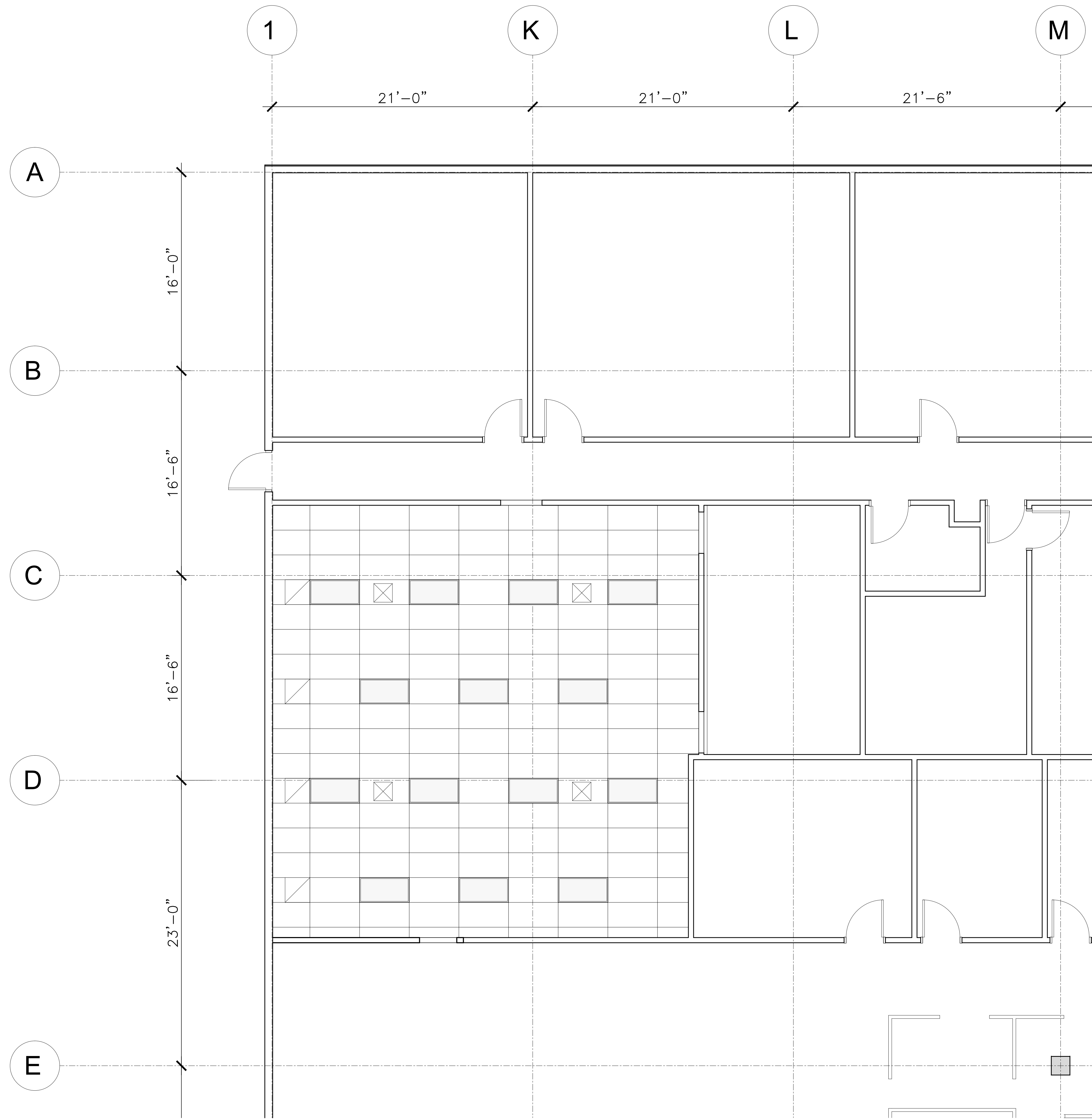
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PROPOSED FLOOR PLAN

1/4" = 1'-0"

2



01

EXISTING CEILING TO REMAIN. EXISTING CEILING HEIGHT TO REMAIN. GC TO REPLACE DAMAGED CEILING PANELS W/ SAME DURING CONSTRUCTION. GC TO MAKE NECESSARY ADJUSTMENTS TO CEILING PANELS ABOVE NEW INTERIOR PARTITIONS. REFER TO CEILING DETAILS ON SHEET A-10.1 FOR ADDITIONAL INFORMATION.

02

MECHANICAL DUCTS AND REGISTERS SEE MECH'L PLANS.

RCP KEY NOTES

CITY Approval Stamp

EX. SUSPENDED FLUORESCENT LIGHT

EX 2'-0"x 4'-0" SUSPENDED LAY-IN CEILING SYSTEM
BURNING CHARACTERISTICS = 25 OR LESS
SMOKE = 450 OR LESS. SEE SHEET A-10.1

EX. MECHANICAL DIFFUSERS. SEE MECH. DWGS.

RCP LEDGEND

REVISIONS

DC | ARCHITECTS

INTERIOR RENOVATION
SMART BUILDING
793 NORTH E. STREET
SAN BERNARDINO, CA 92410
SAN BERNARDINO CITY U.S.D.

REFLECTED CEILING
PLAN

820 N. MOUNTAIN AVENUE
SUITE 200
UPLAND, CA 91786
(951) 885-6839 OFFICE
(951) 885-0864 FAX

JOB NUMBER: 2019-001
PROPERTY: PS
DATE: 03.07.2019
SCALE:

A-4.0

RCP PLAN

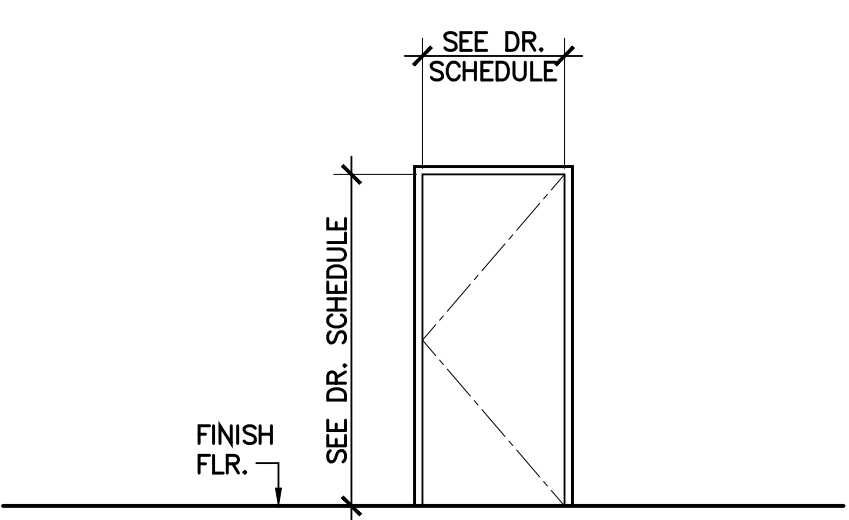
1/8" = 1'-0"

1

DOOR SCHEDULE

OPENING NUMBER	DOORS						FRAME		DETAILS			LABEL (MINUTES)	GLASS TYPE	HARDWARE	REMARKS		
	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH	HEAD	JAMB	THRESHOLD OR SILL						
									DET SHT	DET SHT	DET SHT						
D1		3'-0"	7'-0"	-	-	PTD	-	PTD	2	A-7.1	1	A-7.1	--	--	-	-	SEE DOOR HARDWARE NOTES

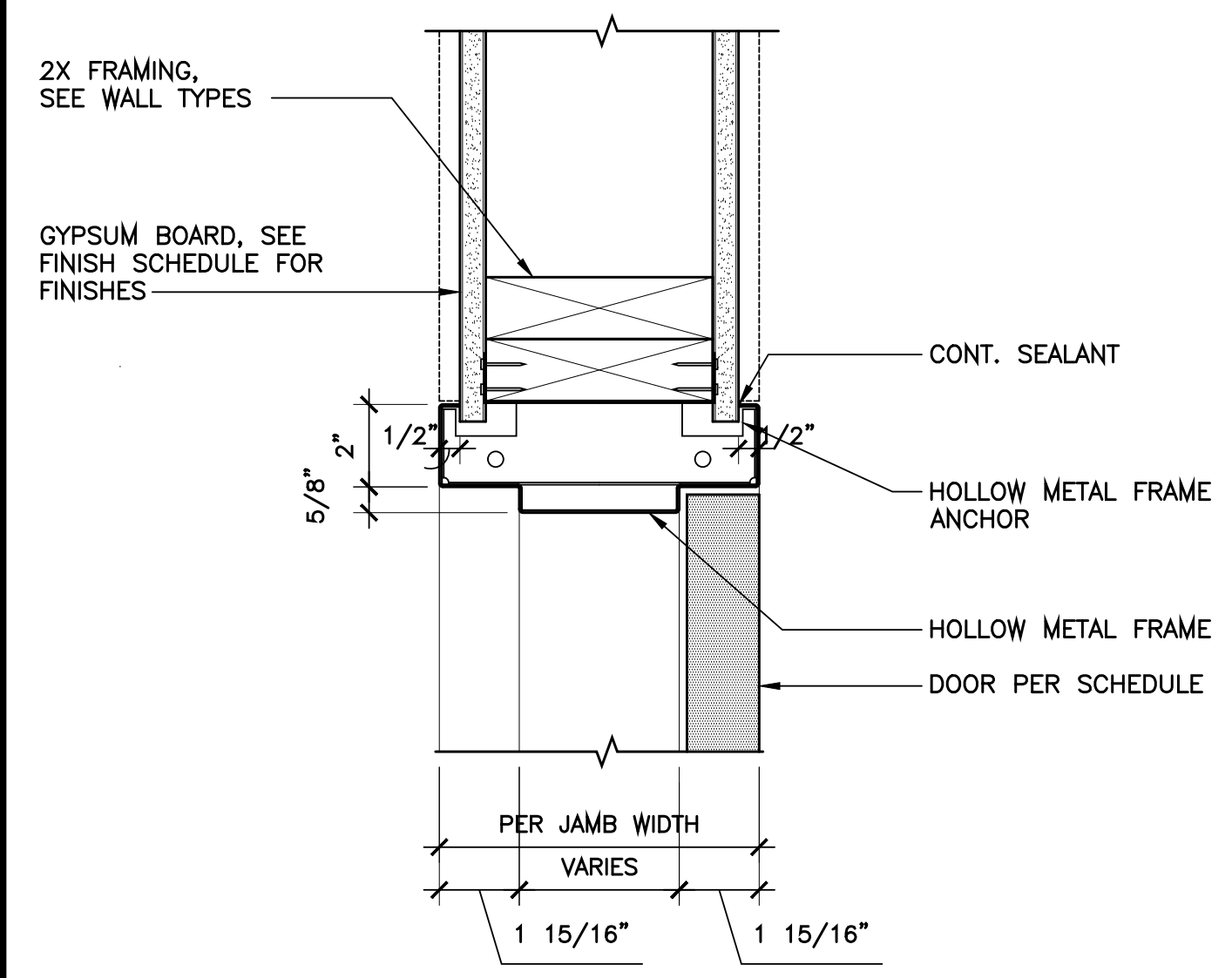
DOOR TYPE



HOLLOW METAL DOOR JAMB

3" = 1'-0"

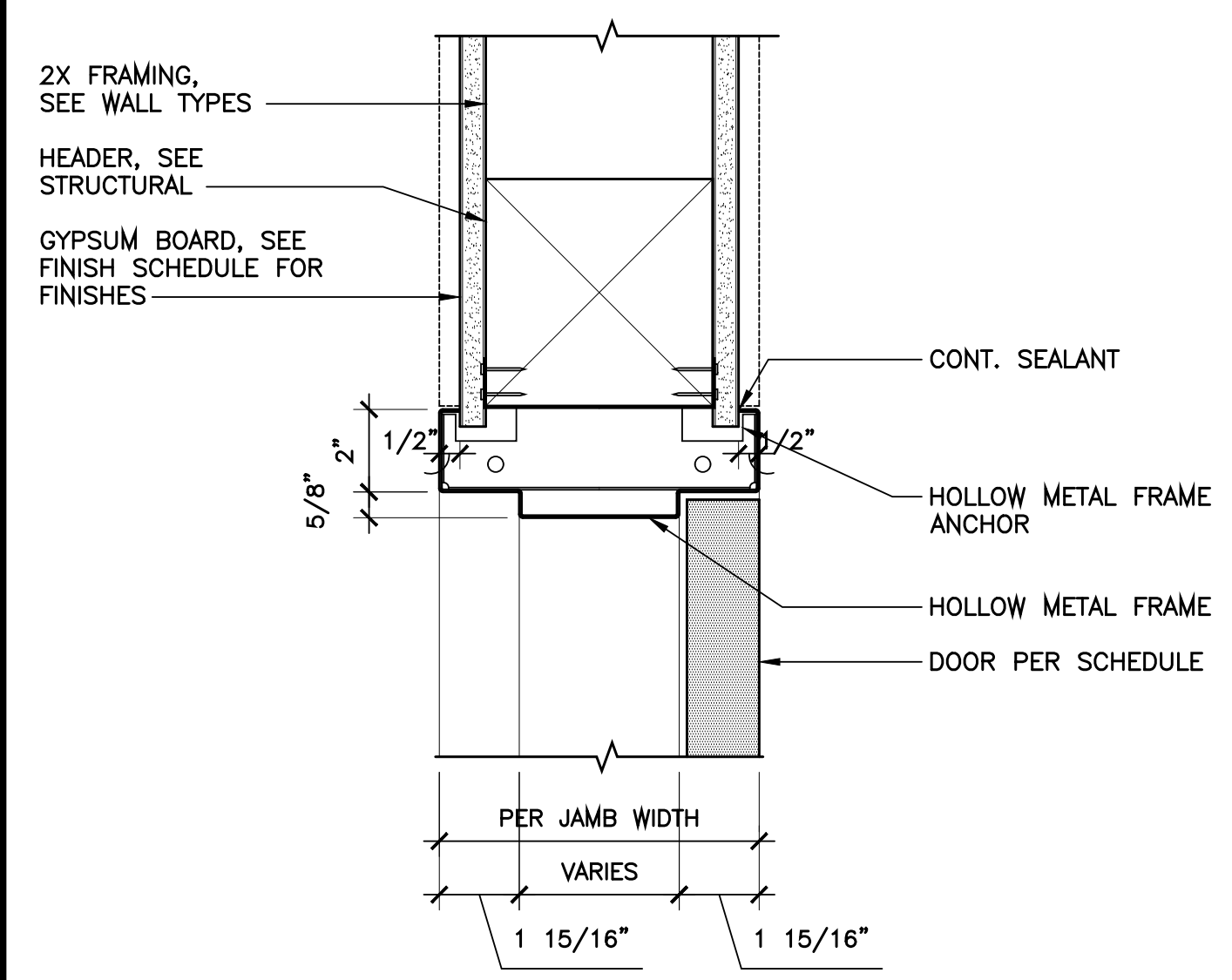
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HOLLOW METAL DOOR HEAD

3" = 1'-0"

2



ROOM FINISH NOTES

- PROVIDE 5/8" TYPE 'X' GYPSUM BOARD TYPICAL THROUGHOUT, UNLESS OTHERWISE NOTED.
- BRUSH-OUTS / DRAW-DOWNS REQUIRED FOR ALL PAINTS AND COLORS. FORWARD SAMPLES TO THE ARCHITECT FOR APPROVAL, PRIOR TO INSTALLATION.
- UNLESS OTHERWISE NOTED, ALL DAMP AREAS SHALL BE FINISHED W/ 5/8" WATER RESISTANT GYPSUM BOARD (WALLS ONLY).
- ALL FINISHES AND COLORS ARE SUBJECT TO THE ARCHITECT'S AND OWNER'S FINAL APPROVAL.
- FINISH MATERIALS TO HAVE MAX. FLAME SPREAD=200 AND MAX. SMOKE DENSITY=450.

DOOR & WINDOW NOTES

- SEE DOORS & WINDOWS DETAIL SHEET FOR TYPICAL FRAME DETAILS AND ADDITIONAL NOTES AND REQUIREMENTS.
- SEE THIS SHEET FOR GLASS TYPES.
- SEE SPECIFICATIONS FOR HARDWARE AND THRESHOLDS.
- RATED DOORS AND FRAMES ARE REQUIRED TO BE OF THE SAME RATING.
- THE FLOOR OR LANDING ON EACH SIDE OF DOORS IS NOT MORE THAN 1/2-IN. LOWER THAN THE THRESHOLD OF THE DOORWAY. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES GREATER THAN 1/4-IN. AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL (50% SLOPE). (1008.1.7)

DOOR HARDWARE NOTES

DOOR HARDWARE:

- EGRESS DOORS OR GATES SHALL BE OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT. DOOR HANDLES, PULLS, LATCHES, LOOKS, AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34 TO 48 IN. ABOVE THE FINISHED FLOOR. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS ARE NOT PERMITTED. THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION. (1008.1.9)
- MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, MAXIMUM EFFORT TO OPERATE DOOR MAY BE INCREASED SO AS NOT EXCEED 15 POUNDS.
- PANIC AND FIRE EXIT HARDWARE, WHERE INSTALLED ON DOORS IN THIS BUILDING, SATISFY THE FOLLOWING: (1008.1.10)

A. THE ACTUATING PORTION OF THE RELEASING DEVICE SHALL EXTEND AT LEAST ONE-HALF OF THE DOOR LEAF WIDTH.

B. THE MAXIMUM UNLATCHING FORCE DOES NOT EXCEED 15-POUNDS.

C. PIVOTED OR BALANCED DOORS SHALL BE OF THE PUSH-PAD TYPE WHERE PANIC HARDWARE IS REQUIRED, AND THE PAD SHALL NOT EXTEND ACROSS MORE THAN ONE- HALF OF THE DOOR WIDTH, MEASURED FROM THE LATCH SIDE.
- WHERE KEY-OPERATED LOCKING DEVICES ARE USED, POST A SIGN ON OR ADJACENT TO THE REQUIRED MAIN EXIT DOOR WITH 1-IN. LETTERING STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED." (1008.1 .9.3)

DOOR HARDWARE NOTES

FIRE RATED DOORS:

- FOR FIRE RATED DOORS CBC 713.3

- A. IDENTIFY DOORS AND FRAMES WITH AN APPROVED LABEL IMPACTING RATING.
- SHOW HARDWARE REQUIREMENT IN 713.6

- A. CLOSING DEVICE

- B. HINGES

- C. LATCH

ACCESSIBLE DOORS NOTES:

- ALL HAND ACTIVATED DOOR OPENING HARDWARE SHALL MEET THE FOLLOWING REQUIREMENTS:

1.1. BOTTOM SHALL BE LOCATED BETWEEN 36" AND 44" ABOVE FINISH FLOOR.

1.2. LATCHING AND LOCKING DOORS THAT ARE IN THE PATH OF TRAVEL SHALL BE OPERATED WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT THE ABILITY TO GRASP THE OPENING HARDWARE.

1.3. LOCKED DOORS SHALL EXIT IN THE DIRECTION OF TRAVEL.
- THE LOWER 10" OF ALL DOORS SHALL BE SMOOTH AND UNINTERRUPTED TO ALLOW THE DOOR TO BE OPENED WITH A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. NARROW FRAME DOORS MAY USE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF THE DOOR.

ABBREVIATIONS

ACT = ACOUSTIC CEILING TILES

AN = ANODIZED

CMU = CONCRETE MASONRY UNIT

CONC= CONCRETE

CPT = CARPET

CT = CERAMIC TILE

(E) = EXISTING

FF = FACTORY FINISH

FLA = FLUID APPLIED FLOORING

GB = GYPSUM BOARD

GL = GLASS

HC = HOLLOW CORE - WOOD

HM = HOLLOW METAL

IG = INSULATED GLASS

MFR = MANUFACTURER

MTL = HOLLOW CORE - METAL

PH = PANIC HARDWARE

PLA = PLASTER

PLWD= PLYWOOD

PR = PAIR (DOUBLE SWNG)

PTD = PAINTED

PT = PORCELAIN TILE

RB = RUBBER BASE

RT = RUBBER TILE

SC = SOLID CORE - WOOD

SL = SEALER/CLEAR

STV = STAINED AND VARNISHED

TWP = TACKABLE WALL PANEL

T = TEMPERED GLASS

VCT = VINYL COMPOSITION TILE

WRGR = WATER RESISTANT GYPSUM BOARD

REVISIONS

DC | ARCHITECTS

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INTERIOR RENOVATION
SMART BUILDING
793 NORTH E. STREET
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SAN BERNARDINO CITY U.S.D.

DOOR AND WINDOW
SCHEDULES
& TYP. DETAILS

DATE: 06.07.2019





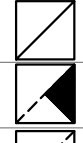











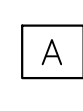

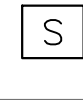

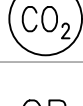



SCALE:

2019-001

PS

A-7.1

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CALIFORNIA MECHANICAL CODE, 2016 EDITION TITLE 24 PART 5

- | HVAC SYMBOL AND ABBREVIATIONS | |
|--|---|
|  | SUPPLY AIR DUCT |
|  | RETURN, TRANSFER, EXHAUST OR BY-PASS AIR DUCT |
|  OR  | SUPPLY AIR DIFFUSER (4 WAY OR 2 WAY THROW) S.A. |
|  | RETURN AIR REGISTER R.A. |
|  | TRANSFER AIR REGISTER T.A. |
|  | EXHAUST AIR REGISTER E.A. |
|  | AC UNIT THERMOSTAT & ZONE |
|  | VOLUME DAMPER V.D. |
|  | UNDER CUT DOOR |
|  | DOOR LOUVER |
|  | DUCT TYPE SMOKE DETECTOR |
|  | DUCT TRANSITION |
| O.A. | OUTSIDE AIR |
| C.D. | CEILING DIFFUSER |
| F.P. | FILLER PANEL |
| R.C.G. | RETURN CEILING GRILLE |
| R.C.R. | RETURN CEILING REGISTER |
| T.C.G. | TRANSFER CEILING GRILLE |
| E.C.G. | EXHAUST CEILING GRILLE |
| E.C.R. | EXHAUST CEILING REGISTER |
| S.W.G. | SUPPLY WALL GRILLE |
| S.W.R. | SUPPLY WALL REGISTER |
| R.W.G. | RETURN WALL GRILLE |
| R.W.R. | RETURN WALL REGISTER |
| T.W.G. | TRANSFER WALL GRILLE |
| E.W.G. | EXHAUST WALL GRILLE |
| E.W.R. | EXHAUST WALL REGISTER |
|  F.L.F.D. | FUSIBLE LINK FIRE DAMPER |
| A.P. | ACCESS PANEL |
| U.L.A.P. | U.L. LISTED ACCESS PANEL |
| A.C. | AIR CONDITIONING UNIT |
| R.E.F. | ROOF EXHAUST FAN |
| C.E.F. | CEILING EXHAUST FAN |
| I.E.F. | IN-LINE EXHAUST FAN |
|  | ZONE DAMPER |
|  | BYPASS DAMPER |
| P.O.C. | POINT OF CONNECTION |
| A.F.F. | ABOVE FINISHED FLOOR |
|  | FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL DIVISION OF THE SPECIFICATIONS. |
|  | FURNISHED AND INSTALLED UNDER THE ELECTRICAL DIVISION OF THE SPECIFICATIONS. |
|  | FURNISHED AND INSTALLED UNDER THE STRUCTURAL DIVISION OF THE SPECIFICATIONS. |
|  C.S.F.D. | COMBINATION SMOKE/FIRE DAMPER |
| ===== OR :::::::::: | INTERNALLY LINED DUCTWORK |
|  | CARBON DIOXIDE SENSOR |
|  OR  | S.A. OR R.A. DUCT DROPS |
|  | E.A. DUCT DROP |

AIR DISTR. EQUIP'T. (WHEN OMITTED, PROVIDE SIZE BASED ON C.F.M. VOLUME; SEE SCHEDULE)

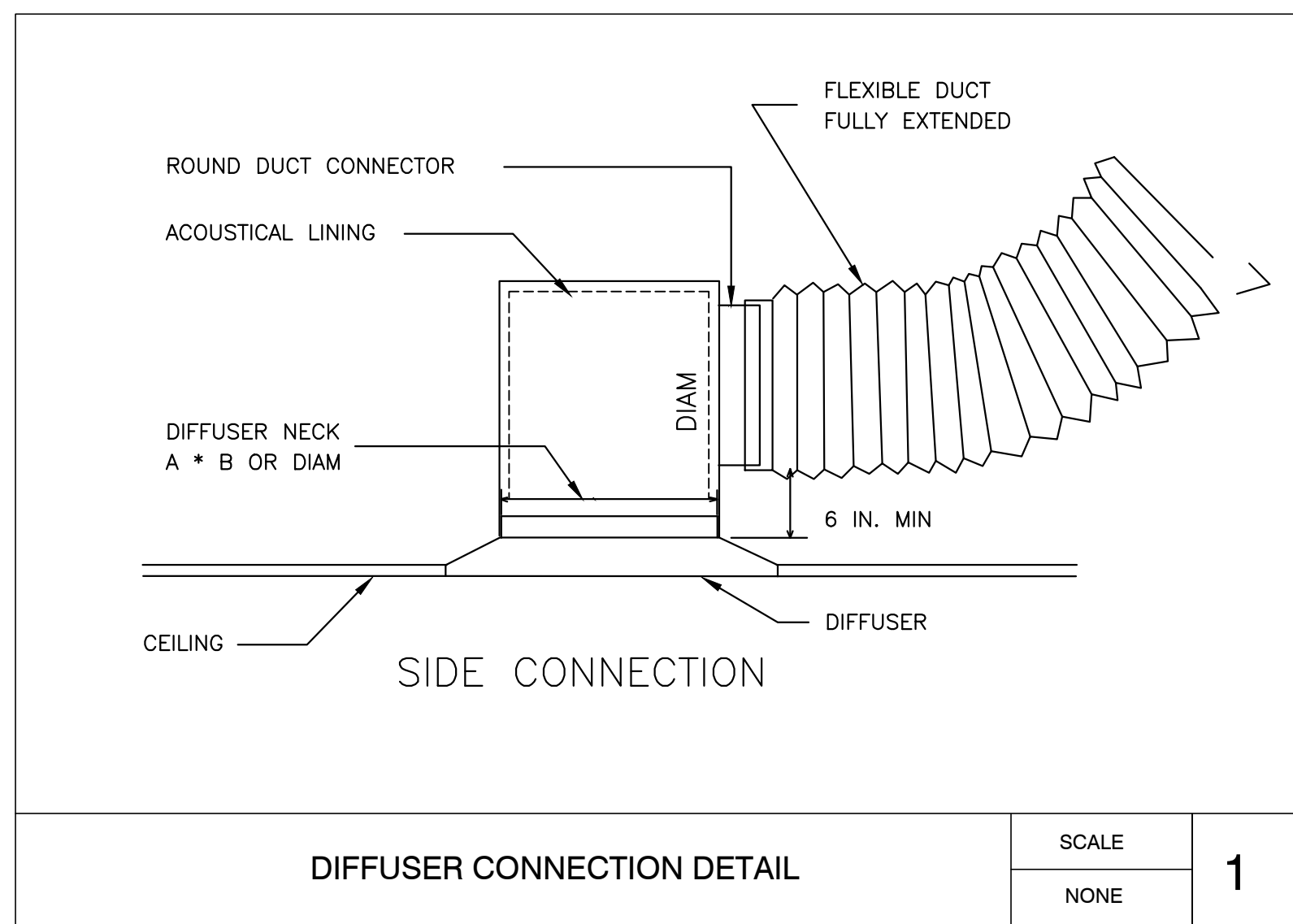
AIR DISTR. EQUIP'T. →  12"x12"-[Ⓐ]
235 C.F.M.

DESIGNATION KEY → [Ⓐ]

→ AIR VOLUME

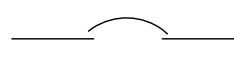







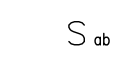


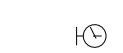



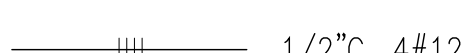







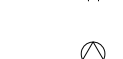
DESIG. KEY	AIR DISTR. EQUIP'T	C.F.M. RANGE	CLG. MTD. EQUIP'T. (SUPPLY, RETURN, TRANSFER & EXHAUST) NECK SIZE	REMARKS
A	C.D.	5-100	6"x6"	
B	C.D.F.P.	105-150	8"x8"	
C	C.D. W/ V.D.	155-250	10"x10"	
D	C.D.F.P. W/ V.D.	255-400	12"x12"	
E	S.W.G.	405-500	14"x14"	
F	S.W.R.	505-700	16"x16"	
a	R.C.G.	705-900	18"x18"	
b	R.C.G.F.P.	905-1100	20"x20"	NOT FOR
c	R.C.R.	1105-1500	22"x22"	C.D.F.P.
e	R.W.G.			
f	R.W.R.			
T1	T.C.G.			
T2	T.C.G.F.P.			
T3	T.W.G.			
E1	E.C.G.			
E2	E.C.G.F.P.			
E3	E.C.R.			
E4	E.W.G.			
E5	E.W.R.			

NOTE:
ALL CEILING DIFFUSERS ARE TO BE 4-W THROW UNITS UNLESS OTHERWISE NOTED ON DRAWINGS.



M-201

		<div><div><div>NO. 1559271</div><div>EXP. 06/29/21</div></div><div><div>SEAL</div><div>REGISTERED PROFESSIONAL ENGINEER</div><div>PE-ENG-2</div><div>LLC</div></div><div><div>5723 Indian Pointe Dr.</div><div>Simi Valley, CA 93063</div><div>(805) 522-1340 Office</div><div>(818) 326-2614 Cell</div></div></div>	
		CITY Approval Stamp	
		REVISONS	
		DC ARCHITECTS	
		820 N. MOUNTAIN AVENUE SUITE 200 UPLAND, CA 91786	
		(909) 985 - 6803 OFFICE (909) 985 - 0864 FAX	
		INTERIOR RENOVATION SMART BUILDING 793 NORTH E. STREET SAN BERNARDINO, CA 92410 SAN BERNARDINO CITY U.S.D.	
		SYMBOLS, NOTES AND SPECIFICATIONS	
		NO. 1559271 2019-001 DLE 08.27.2019 AS NOTED	
		E-1.0	

ELECTRICAL SPECIFICATIONS		SYMBOLS LIST (NOT ALL SYMBOLS ARE USED)	
1.	CODE COMPLIANCE		CIRCUIT BREAKER (SEE SINGLE LINE DIAGRAM).
	A. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF CALIFORNIA CODE OF REGULATIONS, ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHALL AND ALL OTHER GOVERNING CODES.		CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS.
			CONDUIT RUN BELOW GRADE.
			"RGS" CONDUIT RUN EXPOSED ON ROOF.
			FREE STANDING DISTRIBUTION PANELBOARD.
			FLUSH MOUNTED PANELBOARD. (SEE SINGLE LINE DIAGRAM).
		C.O.	CONDUIT ONLY. NTS NOT TO SCALE.
		WP	WEATHERPROOF. UON UNLESS OTHERWISE NOTED.
		GRD.	GROUND. CU COPPER.
		NIC.	NOT IN CONTRACT GFI GROUND FAULT INTERRUPTER
			JUNCTION BOX MOUNTED IN ACCESSIBLE CEILING SPACE.
			JUNCTION BOX FLUSH MOUNTED IN CEILING FOR SECURITY SYSTEM MOTION SENSOR.
			FLUSH MOUNTED 277V, 20A, RATED SINGLE POLE TOGGLE SWITCH AT +48" U.O.N. a,b,c, etc. INDICATES LIGHTING FIXTURE CONTROL.
			FLUSH MOUNTED 125V, 2P, 3W, 15 AMP RATED DUPLEX RECEPTACLE MOUNTED AT +18". U.O.N.
			FLUSH MOUNTED 125V, 2P, 3W, 15 AMP RATED DOUBLE DUPLEX RECEPTACLE MOUNTED AT +18". U.O.N.
			CLOCK: WALL MOUNTED AT +8'-0" U.O.N. TO MATCH DISTRICT STANDARD
			WALL MOUNTED AUTOMATIC LIGHTING MOTION SENSOR, +45" A.F.F.
			1/2"C. 2#12
			1/2"C. 3#12
			1/2"C. 4#12
			1/2"C. 5#12
			3/4"C. 6#10
			3/4"C. 7#10
		X	ADJACENT TO LIGHT FIXTURE, OUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO REMAIN.
		XR	ADJACENT TO LIGHT FIXTURE, OUTLET SYMBOL OR IN CONDUIT RUN INDICATES EXISTING TO BE REMOVED.
		XR.L	ADJACENT TO LIGHT FIXTURE OR OUTLET SYMBOL INDICATES EXISTING LIGHT FIXTURE OR OUTLET SHALL BE DISCONNECTED, REMOVED AND REINSTALLED AT NEW LOCATION NOTED.
		NL	ADJACENT TO LIGHT FIXTURE OR OUTLET SYMBOL INDICATES NEW LOCATION OF RELOCATED LIGHT FIXTURE OR OUTLET.
			FLUSH MOUNTED DATA OUTLET. +18" U.O.N. WITH 1"C.O. STUBBED INTO CEILING SPACE. FURNISH AND INSTALL 2 DATA JACKS AND 2 CAT 6 CABLES BACK TO NEAREST MDF OR IDF.
			ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR TO MATCH EXISTING FIRE ALARM SYSTEM SMOKE DETECTOR.
		FA	3/4"C. (2) 2#18/2 TWISTED PAIR
			EXISTING COMBINATION POWER\DATA OUTLET MOUNTED IN A SINGLE BOX BELOW ACCESSABLE RAISED FLOOR.
			FLUSH FLOOR POWER OUTLET.
			FLUSH FLOOR DATA OUTLET WITH 2 DATA JACKS AND 2 CAT 6 CABLES TO COMBINATION POWER\DATA UNDER FLOOR BOX.
		NOTES: 1. THE ELECTRICAL DRAWINGS INDICATE NEW WORK. EXISTING ELECTRICAL SYSTEMS ARE NOT SHOWN EXCEPT WHERE INTERFACING IS REQUIRED. 2. CONSULT WITH THE DISTRICT'S ELECTRICAL INSPECTOR BEFORE STARTING WORK. 3. THE ELECTRICAL PLANS ARE DEVELOPED FROM AS-BUILT DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE CIRCUIT CONTINUITY FOR A WORKABLE SYSTEM. 4. EACH EMPTY CONDUIT SHALL HAVE A PULL CORD INSTALLED IN IT. 5. ALL ELECTRICAL SYMBOLS SHOWN ON SCHEDULES ARE NOT NECESSARILY USED ON THIS PROJECT. 6. VERIFY EXACT LOCATION OF ALL EXISTING ELECTRICAL SWITCHGEAR, SIGNAL CABINETS (TEL/INTERCOM, F.A.,CABLE TV., AND SECURITY) PRIOR TO BID AND INSTALLATION AND NOTIFY SCHOOL DISTRICT OF ANY DISCREPANCY WITH THEIR PLANS. 7. EACH PANELBOARD SHALL BE GROUNDED WITH A 3/4" X 10' LONG COPPER CLAD STEEL GROUND ROD. 8. MAKE ALL FINAL CONNECTIONS TO PANELBOARDS IN PORTABLE CLASSROOMS.	
1.	CODE COMPLIANCE		
	A. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF CALIFORNIA CODE OF REGULATIONS, ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHALL AND ALL OTHER GOVERNING CODES.		
2.	PERMITS AND FEES		
	SECURE AND PAY FOR ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK.		
3.	MATERIAL		
	A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND LISTED BY THE UNDERWRITER'S LABORATORIES, INC. MANUFACTURED IN ACCORDANCE WITH U.L., NEMA, ANSI OR IEEE STANDARDS, AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION.		
4.	GROUNDING		
	A. ALL ELECTRICAL EQUIPMENT, DEVICES AND SYSTEMS SHALL BE GROUNDED IN STRICT COMPLIANCE WITH NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES. A GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL NEW BRANCH CIRCUIT WIRING.		
5.	ALL CONDUCTORS SHALL BE COPPER TYPE "THWN\THHN" RATED AT 600 VOLTS, UNLESS OTHERWISE NOTED.		
6.	ALL CONDUITS EXPOSED SHALL BE (RGS) RIGID GALVANIZED STEEL.		
7.	ALL CONDUITS CONCEALED SHALL BE "EMT".		
8.	THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL ELECTRICAL CONDITIONS THAT MAY AFFECT HIS BID AND HE SHALL INCLUDE ALL SUCH COSTS WHEN SUBMITTING HIS BID PROPOSAL. NO EXTRAS WILL BE ALLOWED IF THE CONTRACTOR DID NOT VISIT THE EXISTING JOB SITE AND TAKE INTO CONSIDERATION ALL EXISTING ELECTRICAL CONDITIONS.		
9.	THE CONTRACTOR SHALL EXERCISE CARE AND PRUDENCE WHEN RUNNING CONDUIT BELOW GRADE. ALL DAMAGES INCURRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.		
10.	WHERE CONDUITS ARE RUN EXPOSED ON ROOF OR COVERED WALK, USE 2" X 4" REDWOOD BLOCKS AT 5'-0" ON CENTER. USE MASTIC TO SECURE THE BLOCKS TO THE ROOF OR CANOPY, NO SCREWS ALLOWED.		
11.	WHERE CUTTING OF EXISTING CONCRETE AND ASPHALT IS NECESSARY, THE CONTRACTOR SHALL PATCH THE CONCRETE OR ASPHALT TO MATCH EXISTING SURFACE.		
12.	ALL TRENCHING AND BACKFILL AREAS SHALL BE PROTECTED SO AS TO PREVENT PERSONNEL INJURY. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY INJURY. COORDINATE TRENCHING WITH EACH SCHOOL PRINCIPAL.		
13.	ALL BACKFILL SHALL BE TAMPED TO MATCH THE EXISTING DENSITY. ANY CRACKING OR SAGGING OF ASPHALT OR CONCRETE PAVING WILL BE REPAIRED AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT. DO NOT BACKFILL PRIOR TO INSPECTION OF DUCT BANK.		
14.	REWORK OF EXISTING PANELBOARDS WHERE A NEW CIRCUIT BREAKER ARE CALLED FOR WITHIN EXISTING PANELBOARDS THE NEW CIRCUIT BREAKER SHALL MATCH THE EXISTING IN ALL ASPECTS.		
15.	SCHEDULE OF WORK ANY WORK TO BE PERFORMED IN EXISTING BUILDINGS DURING SCHOOL SESSIONS MUST BE PLANNED BY THE CONTRACTOR IN ADVANCE. THE SCHEDULING SHALL BE DONE IN COOPERATION WITH THE SCHOOL PRINCIPAL WHO WILL MAKE AVAILABLE TO THE CONTRACTOR FOR THE PERFORMANCE OF THIS WORK, PORTIONS OF BUILDING WHICH MAY NORMALLY BE IN USE.		
16.	CONTINUITY OF EXISTING ELECTRICAL SYSTEMS A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL POWER, LIGHTING, COMMUNICATION, SIGNAL, FIRE ALARM AND SECURITY SYSTEM SERVICES WITHIN ALL AREAS OF NO WORK WITHIN THIS BUILDING. B. REFRIGERATION MOTORS SHALL BE KEPT OPERATING AT ALL TIMES, EXCEPT FOR PERIODS OF TIME NOT AGGREGATING MORE THAN TWO HOURS IN ANY ONE DAY AND DURING THE VACATION PERIOD, NOTIFY THE DISTRICT BEFORE DISCONNECTING REFRIGERATION MOTORS.		
17.	SCHEDULED POWER OUTAGES COORDINATE AND SCHEDULE ALL OUTAGES WITH THE OFFICE MANAGER AND SCHOOL DISTRICT'S DIRECTOR OF MAINTENANCE PRIOR TO ANY AND ALL OUTAGES.		
18.	SHOP DRAWINGS A. WITHIN TEN (10) DAYS AFTER RECEIPT OF CONTRACT, SUBMIT TO ARCHITECT SEVEN (7) COMPLETE SETS OF DRAWINGS FOR ALL ELECTRICAL EQUIPMENT AND DEVICES LISTED BELOW. DO NOT DELIVER THESE ITEMS TO THE JOB SITE UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY ARCHITECT AND ELECTRICAL ENGINEER. B. SUBMIT DRAWINGS FOR THE FOLLOWING EQUIPMENT: 1) CIRCUIT BREAKERS 2) SIGNAL/COMMUNICATION DEVICES 3) DUPLEX RECEPTACLES 4) LIGHTING FIXTURES AND MOTION SENSORS		
19.	GUARANTEE THIS CONTRACTOR SHALL FURNISH THE OWNER WITH A WRITTEN GUARANTEE FOR THE PERIOD OF ONE YEAR AGAINST FAILURE OF THE ELECTRICAL SYSTEM DUE TO FAULTY MATERIALS OR WORKMANSHIP. GUARANTEE PERIOD SHALL START AT THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ALL SUCH DEFECTS MUST BE REPAIRED OR DEFECTIVE MATERIALS REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.		
20.	CLEAN-UP UPON COMPLETION OF THE WORK, THIS CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DEBRIS AND UNUSED MATERIALS, TOOLS AND EQUIPMENT RESULTING FROM THIS WORK.		
21.	DRAWINGS AND SPECIFICATIONS ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN SOME RESPECTS. SIZES AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY IN THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE ADJUSTED AS DICTATED BY EXISTING CONDITIONS. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.		

REGISTERED PROFESSIONAL ENGINEER
No. 13507
Exp. 08/30/21

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SYMBOLS, NOTES
AND SPECIFICATIONS

REVISED

2019-001

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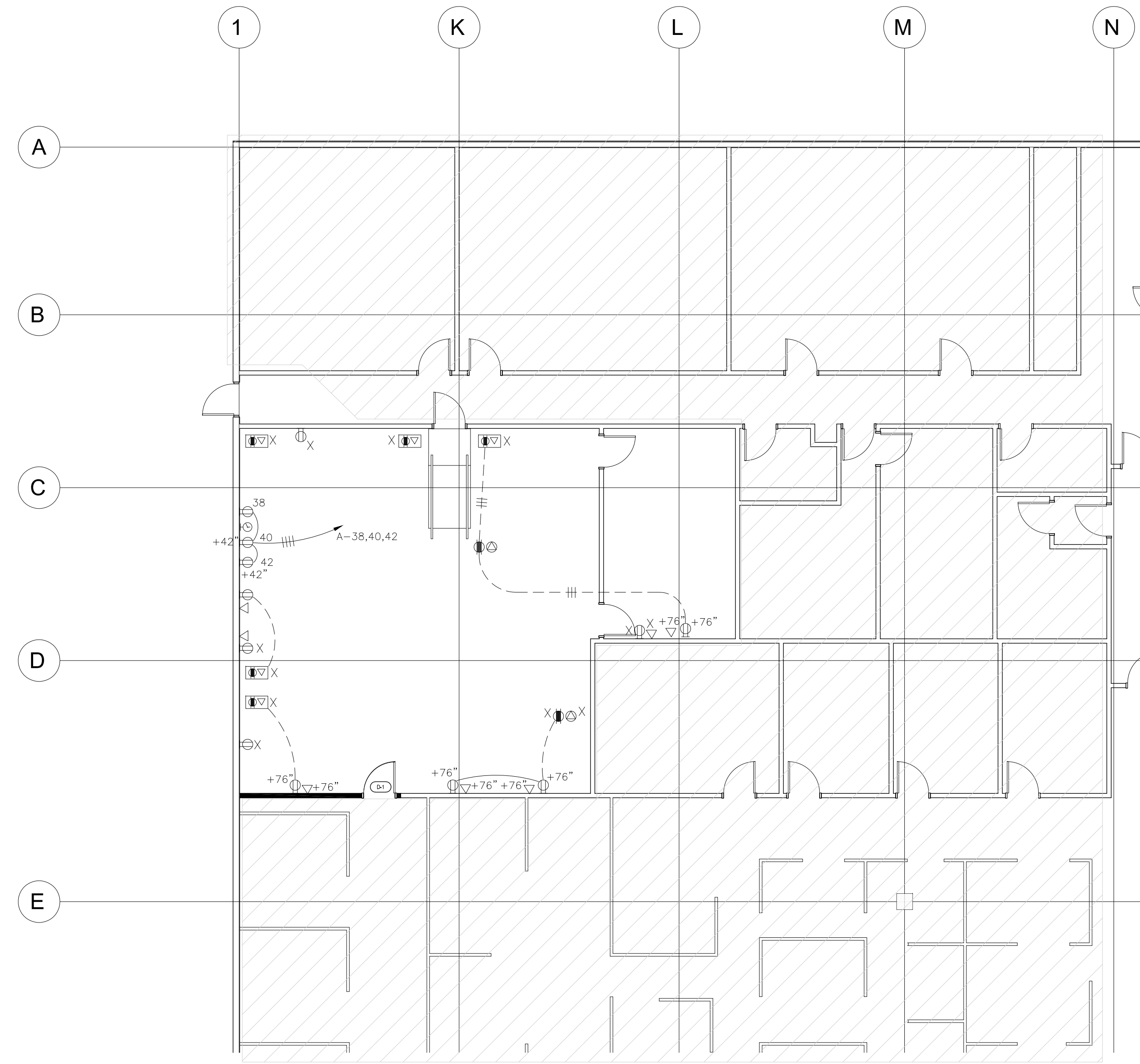
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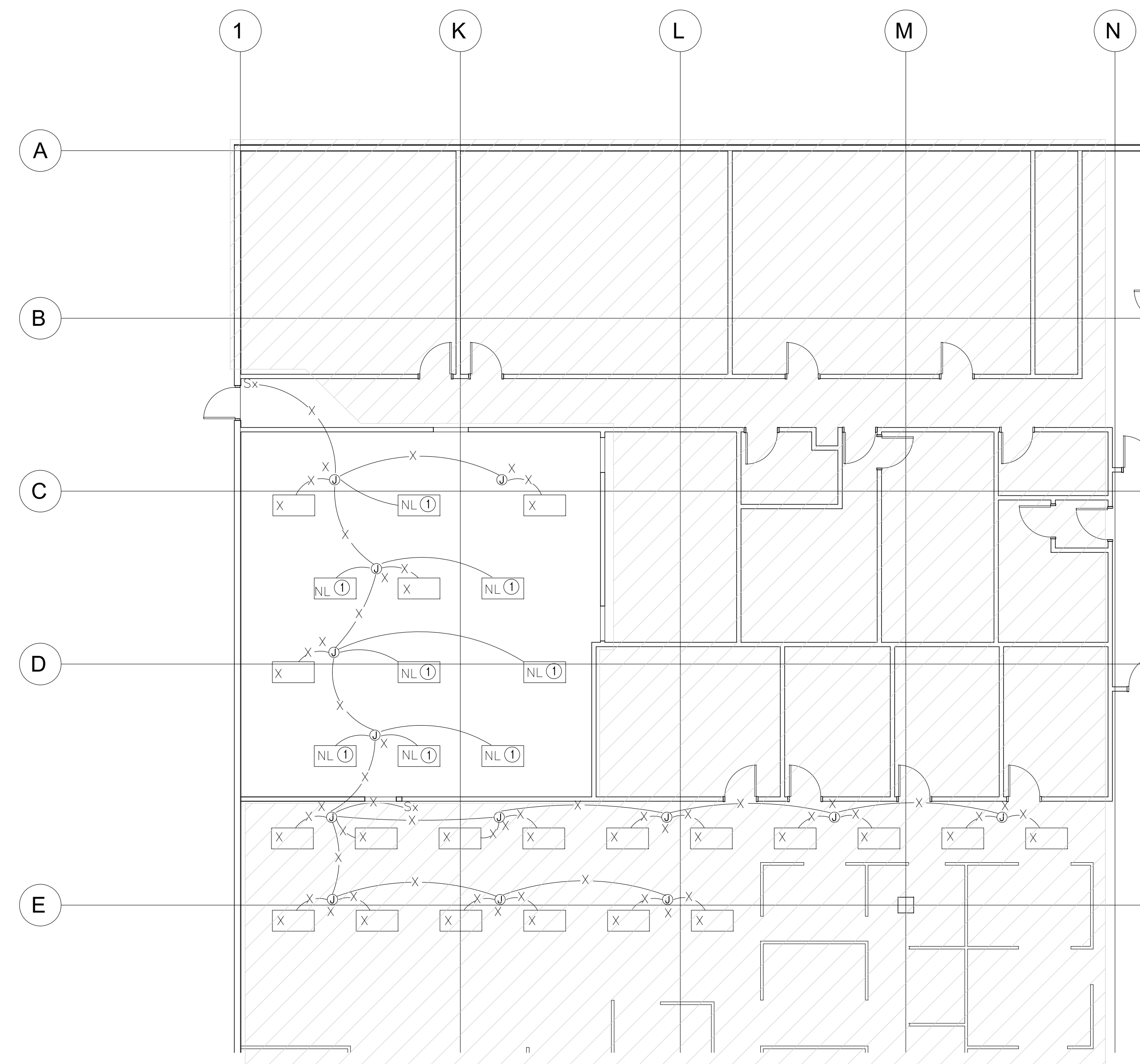
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AS NOTED

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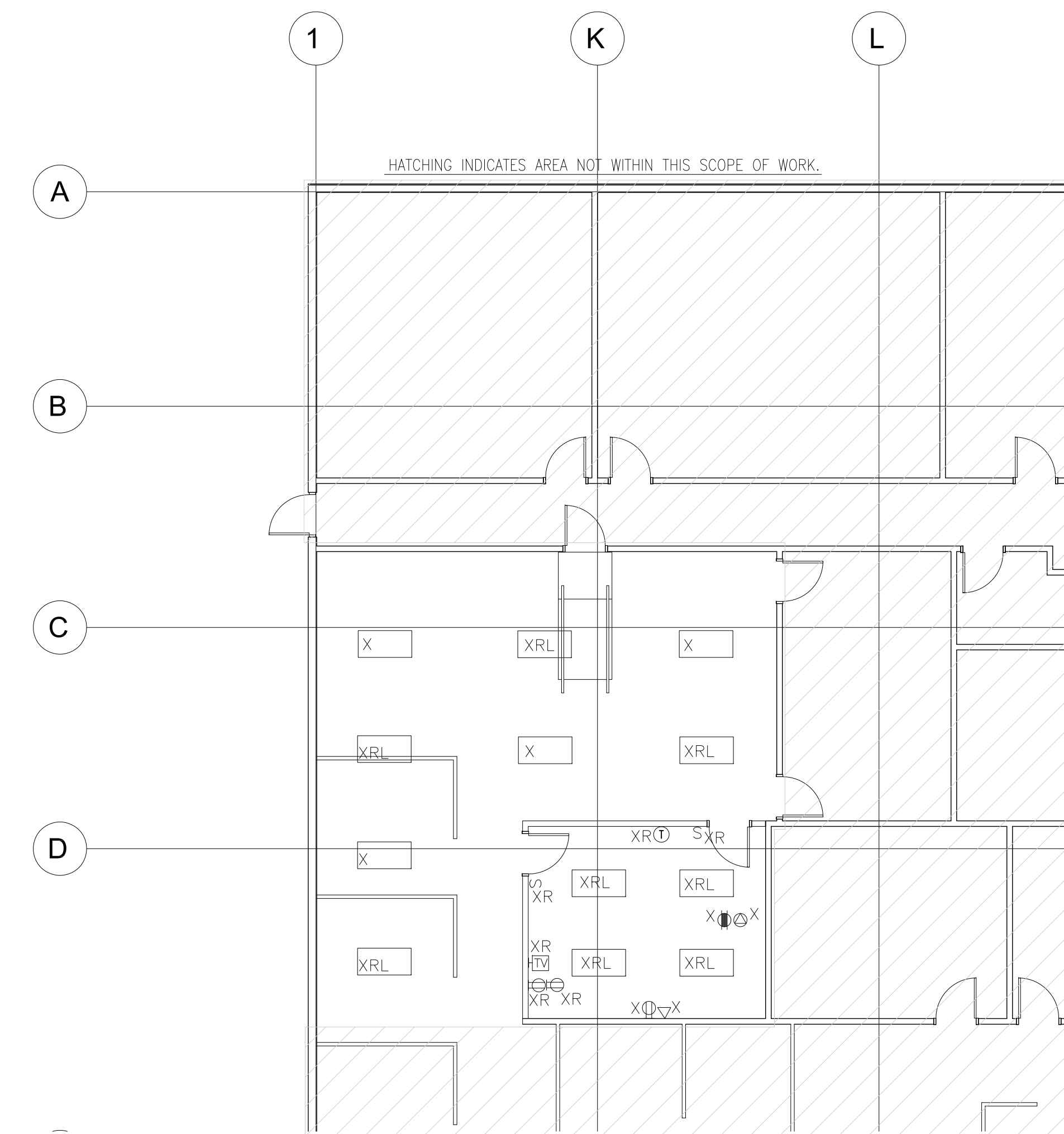


POWER PLAN
SCALE: 1/8"=1'-0"



REFERENCE NOTES:
① NEW LOCATION OF RELOCATED EXISTING RECESSED 2' X 4' LIGHTING FIXTURE.

LIGHTING PLAN
SCALE: 1/8"=1'-0"



DEMOLITION PLAN-ELECTRICAL
SCALE: 1/8"=1'-0"

REVISIONS
322020 - BACK CHECK COMMENTS