CENTENNIAL MIDDLE SECURITY UPGRADE



PROVO SCHOOL DISTRICT 305 EAST 2320 NORTH PROVO, UTAH

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PROJECT TEAM

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NOTES TO BIDDERS

1. THIS SHEET CONTAINS A LIST OF DRAWINGS WHICH COMPRISE A FULL SET OF DRAWINGS FOR THIS PROJECT. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE RESPONSIBLE FOR SPECIFICATIONS. IF ANY PERSON, PARTY OR ENTITY ELECTS TO SUBMIT BIDS FOR ANY PORTION, OR ALL, OF THIS PROJECT, THAT PERSON, PARTY OR ENTITY SHALL BE RESPONSIBLE FOR ANY AND ALL INFORMATION CONTAINED IN THESE DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO, ANY SUBSEQUENT ADDENDUMS OR CLARIFICATIONS THAT MAY BE ISSUED.

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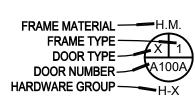
Salt Lake City, UT 84115

2. THESE DOCUMENTS SHOW THE DESIGN INTENT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE EVERYTHING SHOWN ON THE DRAWINGS OR SPECIFICATIONS, REGARDLESS OF WHERE IT IS SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS. FOR EXAMPLE; SOME MILLWORK DETAILS HAVE STEEL FRAMES WHICH MAY BE PROVIDED BY DIVISION 05 OR WITH THE MILLWORK AT THE CONTRACTOR'S DISCRETION, BUT IT SHALL BE PROVIDED AS PART OF THE CONTRACT.

SYMBOL LEGEND

RM NAME

ROOM NAME & NUMBER SYMBOL



DOOR SYMBOL



DETAIL REFERENCE MARK. SEE DETAILS

GENERAL NOTES

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE
- SUB-CONTRACTORS, TRADES AND SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT.
- 3. THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL THE TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. QUANTITIES ARE TO BE PROVIDED AS SHOWN ON DRAWINGS OF OTHER DISCIPLINES BUT LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK.
- 4. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN; DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN

DESIGN DATA

IBC 2015 TO INCLUDE APPENDIX J, ANSI 117.1 2009, IMC 2015, IPC 2015, IECC 2015, NEC 2014, IFGC 2015, NFPA 101 LIFE SAFETY 2015

TENANT IMPROVEMENT TO EXISTING BUILDING, NO STRUCTURAL CHANGES ARE BEING MADE. **AUTOMATIC SPRINKLER SYSTEM, 903.2.3 - YES**

EXITING REQUIREMENTS UNCHANGED FROM ORIGINAL BUILDING.

ADDDE\/IATIONE

F.G. F.D.

F.E. FTG. FLR.

FDN./FNDTN.

FINISH GRADE

FLOOR DRAIN

FOUNDATION

FOOTING

FLOOR

FIRE EXTINGUISHER

ABBR	EVIATIONS				
A.F.F. A.S. ASPH. & @ ALUM. ARCH. BLDG. BTM. BD. C.G. CTJ. CL CONC. C.M.U. CO CORR. COL. COMP. CONT. CLG. C.S. CLS C.T. CLR C.O. C.O.T.G. C.J. DEPT DIA. D.F. DN DISP. DIM. DT./DTL./DET. DWG./DRWNG. DRN. EA. ELEV./EL. EXIST./(E) ELECT. EQUIP. E.E.S. E.J. EIF EVAP.	ABOVE FINISH FLOOR AIR SPACE ASPHALT AND AT ALUMINUM ARCHITECTURAL BUILDING BOTTOM BOARD CORNER GUARD CONTRACTION JOINT CENTER LINE CONCRETE CONCRETE MASONRY UNIT COMPANY CORRIDOR COLUMN COMPUTER CONTINUOUS CEILING CLOSURE STRIP CLOSET CERAMIC TILE CLEAR CLEAN OUT CLEAN OUT CLEAN OUT CLEAN OUT TO GRADE CAST IRON DEPARTMENT DIAMETER DRINKING FOUNTAIN DOWN DISPENSER DIMENSION DETAIL DRAWING DRAIN EACH ELEVATION EXISTING ELECTRICAL EQUIPMENT EMERGENCY EYEWASH AND SHOWER EXPANSION JOINT EXTERIOR INSULATION SYSTEM EVAPORATIVE	F.A. FIN. F.H. F.V. G.W.B. GYP. GA. GALV. G.I. H.M. H.C. H.P. HT. HORIZ. H.W. INSUL. I.D. K.O. KW LBS MECH. MEZZ MFR/MNFR MGR M.T. MTL. MAX. MIN. M.O. M.H. M.C.C. MISC. N. NO. N.I.C. NOM. N.T.S. OPG. O.C. O.H. O.D. PERM. PL. PNTH PTN.	FIRE ALARM FINISHED FIRE HYDRANT FIELD VERIFY GYPSUM WALLBOARD GYPSUM GAUGE GALVANIZED GALVANIZED IRON HOLLOW METAL HANDICAP HIGH POINT HEIGHT HORIZONTAL HARDWOOD INSULATION INSIDE DIAMETER KNOCK OUT KILOWATTS POUNDS MECHANICAL MEZZANINE MANUFACTURER MANAGER MEN'S TOILET METAL MAXIMUM MINIMUM MASONRY OPENING MANHOLE MACHINERY MOTOR CONTROL CENTER MISCELLANEOUS NORTH NUMBER NOT IN CONTRACT NOMINAL NOT TO SCALE OPENING ON CENTER OVERHEAD OUTSIDE DIAMETER PENTHOUSE PARTITION	R.O. RM. REINF. REC. R.W. S. S.B.U. SF STOR. SIM. SUSP. SYS. SPECS. STRUCT. ST. SCH. S.S. S.W. SERV. TYP. TRANS. T.& B T.O. T. U.O.N./U.N.O. UR. VAR. VEST. VERT. W.C. W.H. W.T. WD. WSCT. W/ W.W.F.	ROUGH OPENING ROOM REINFORCED RECESSED RETAINING WALL SCUPPER STRUCTURAL BRICK UNIT SQUARE FOOT STORAGE SIMILAR SUSPENDED SYSTEM SPECIFICATIONS STORAGE STRUCTURAL STEEL SCHEDULE STAINLESS STEEL SOFT WOOD SERVICE TYPICAL TRANSFORMER TOP AND BOTTOM TOP OF TOILET UNLESS OTHERWISE NOT URINAL VARIES VESTIBULE VERTICAL WATER CLOSET WATER HEATER WOMEN'S TOILET WOOD WAINSCOT WITH WELDED WIRE FABRIC

P.O.C.

P.F.H.

POINT OF CONNECTION PORTLAND CEMENT

PERIMETER FELT JOINT

QUARRY TILE

ROOF DRAIN

DRAWING INDEX

GENERAL	STRUCTURAL
G101 GENERAL INFORMATION	S001 STRUCTURAL FLOOR PLAN & DETAILS
ARCHITECTURAL	ELECTRICAL
A101 FLOOR PLAN & DETAILS	EG101 SYMBOLS, SCHEDULES & NOTES
A201 DOOR HARDWARE	EY101 LOBBY - SYSTEMS PLAN

VICINITY MAP



CONSTRUCTION DOCUMENTS 2018-08-13

ALL VISITORS ARE REQUIRED TO -**CHECK INTO THE OFFICE**

DOOR SIGN

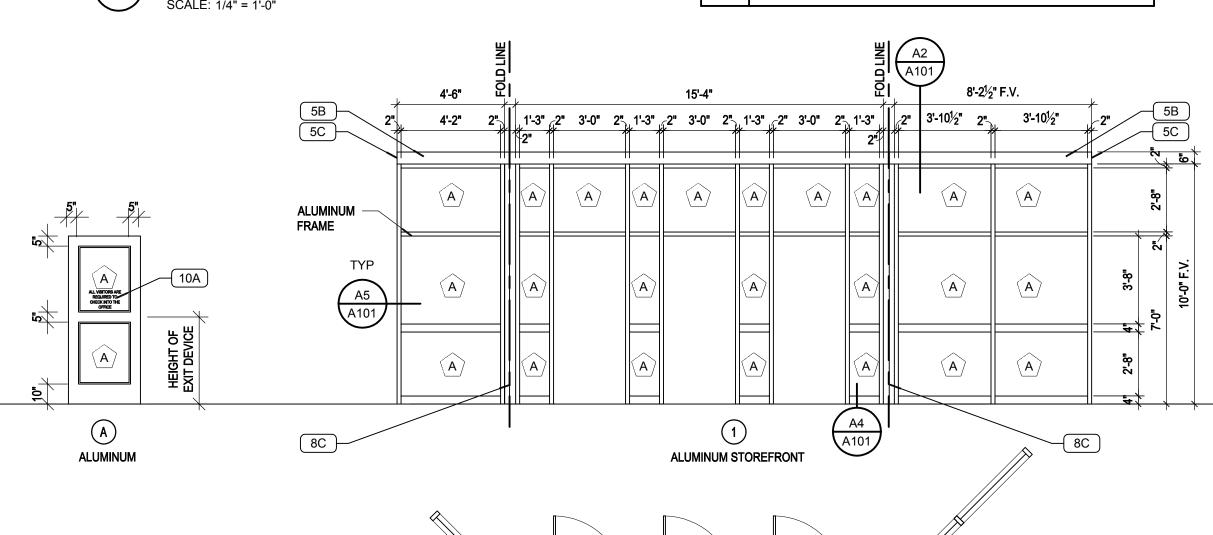
BLACK VINYL LETTERING

11/2" HIGH BLACK VINYL LETTERS MOUNTED ON GLASS OF ALUMINUM STOREFRONT DOORS

NOTES 1) SEE FRAME TYPE FOR WIDTH & HEIGHT, ALL DOORS ARE 1 3/4" THICK 2) ALL DOORS 3'-6" OR GREATER REQUIRE FOUR HINGES TYP. 3) FIELD VERIFY LENGTH OF ALL ARCS PRIOR TYP. FENESTRATION. 4) ALUMINUM STOREFRONT BASIS OF DESIGN: - FRAMES: KAWNEER 400 (1-3/4 X 4 INCH FRAME), ANODIZED FINISH - DOORS: KAWNEER STANDARD 500 ENTRANCE DOORS, ANODIZED FINISH

GLAZING TYPES

1/4" TEMPERED GLASS



ALUMINUM

STOREFRONT FRAME SCALE: 1/4" = 1'-0"

KEYED NOTES

REFINISHED AS NEEDED.

SYMBOL LEGEND

ROOM NAME

FRAME MATERIAL H.M. = HOLLOW METAL,

THE ATTENTION OF THE ARCHITECT PRIOR TO BID.

AND NEW EQUIPMENT, SYSTEMS, AND DEVICES.

THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.

BUILDING OWNER 2 WEEKS PRIOR TO OCCURRENCE.

STRUCTURE, FINISHES, AND SITE ELEMENTS.

HW ALTERNATE

GENERAL NOTES

THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING AS THE LOCATIONS SHOWN IN THE DOCUMENTS ARE

APPROXIMATED. ALL VARIANCES NOT SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO

CONTRACTOR TO COORDINATE WITH ELECTRICAL PLANS FOR LOCATIONS OF ALL EXISTING

AS SOME DEMOLITION WORK WILL BE SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS. RELOCATE, REWIRE, AND/OR RECONNECT EXISTING ELECTRICAL AND MECHANICAL DEVICES OR EQUIPMENT

CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING

ALL EXISTING INTERIOR FINISHES, MATERIALS, STRUCTURE, SYSTEMS, LANDSCAPING, AND

SITE FEATURES, ETC., THAT ARE DAMAGED DURING THE PROCESS OF CONSTRUCTION

SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO MATCH AT THE

CONTRACTOR IS TO COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH THE ONGOING OPERATIONS OF ADJACENT BUILDING TENANTS. CONTRACTOR TO

IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED, MAKE ALL NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN CIRCUIT

CONTRACTOR TO USE DUST CONTROL AND SOUND CONTROL IN ALL DEMOLITION AND

ALL DOORS/FRAMES RECEIVING NEW HARDWARE TO BE PATCHED, REPAIRED, AND

SCHEDULE WORK AND COORDINATE ANY UTILITY SHUT OFFS OR INTERRUPTIONS WITH

DOOR TYPE X 1

DOOR NUMBER 100A

DIVISION 2 - EXISTING CONDITIONS / DEMOLITION

GRIND SMOOTH EXISTING SPLIT FACE CMU BLOCK BAND WIDTH OF STOREFRONT SYSTEM

2B EXISTING DOOR/WINDOW TO REMAIN, PROTECT IN PLACE 2C EXISTING ALUMINUM WINDOW, PROTECT IN PLACE

2D REMOVE & RELOCATE EXG SIGN AS SHOWN, PATCH/ REPAIR WALLS AS NEEDED

2E EXISTING MILLWORK TO REMAIN, PROTECT IN PLACE 2F EXISTING FLOOR COVERINGS TO REMAIN, PROTECT IN

2G EXISTING WALL TO REMAIN, PROTECT IN PLACE, PATCH & REPAIR AS NEEDED

DIVISION 5 - METALS

5A HSS 3" x 3" COLUMN, SEE STRUCTURAL DRAWINGS 5B HSS 6" x 5" HEADER BEAM W/ WELDED PLATES, SEE STRUCT. PAINTED WHERE EXPOSED, TO MATCH RED ACCENT ADJ.

5C STEEL PLATE ANCHORED TO CMU WALL, SEE STRUCTURAL PAINTED WHERE EXPOSED, TO MATCH RED ACCENT ADJ.

DIVISION 8 - DOORS & WINDOWS

8A SCHEDULED DOOR & FRAME

8C ALUMINUM BREAK METAL CLOSURE **DIVISION 10 - SPECIALTIES**

10A SIGN, BLACK VINYL LETTERING, 1 1/2" HIGH LETTERS MOUNTED ON ALL NEW ALUMINUM DOORS.

DIVISION 16 - ELECTRICAL

16A CARD READER

16B LOCK DOWN / DOOR RELEASE BUTTON, MOUNTED UNDER COUNTERTOP. SEE ELECTRICAL DRAWINGS FOR DETAILS

12 GA. HANGER WIRE @ 4'-0" O.C. MAIN RUNNER — OR CROSS TEE — LINE OF WALL OR— BRACING 4'-0" BOUNDARY ACCOUSTICAL -BOARD FROM WALL OR 1/8" POP RIVET AT— BOUNDARY ALL MEMBERS ON ONE WALL RUNNERS - SEISMIC CLIP @ ALL-/ * SEE DETAIL E4/A800 FOR SUSPENDED G.W.B. REQUIREMENTS CROSS — RUNNERS - PROVIDE VERTICAL STRUT OF CONTINUOUS LENGTH OF CEILING GRID OR OTHER APPROVED LIGHT METAL FRAMING ATTACHED VERTICAL WIRES -TO MAIN RUNNER AND TO STRUCTURE ABOVE AT 4'-0" O.C. TO COUNTER-ACT UPLIFTING FORCES OF **EACH WAY** SPLAYED WIRES. BRACING. 12 GA. SPLAY WIRES — 1. ALL SPLAY WIRES TO BE IN LINE WITH SEE DETAIL AT IN PLANE OF EACH ATTACHED COMPONENT RUNNER 2. ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS WITH MINIMUM OF 3 TURNS IN 1" OF RUN 3. AREAS SMALLER THAN 144 SQ. FT. WITH WALLS ON 4 SIDES EXTENDING TO STRUCTURE NEED NOT BE BRACED WIRES @ 4'-0" 4. COMPRESSIVE STRUTS REQUIRED @ 12'-0" O.C. 5. ALL CEILING MOUNTED LIGHT FIXTURES SHALL CROSS RUNNER BE ATTACHED TO THE SUSPENDED CEILING GRID. IN ADDITION 12 GA. HANGER WIRES -- MAIN RUNNER SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE LIGHT HOUSING AND TO THE STRUCTURE ABOVE (THESE WIRES MAY BE

TYP. CEILING SUSPENSION & SEISMIC BRACING

SLACK).

6. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR

OBSTRUCTIONS OCCUR.

EQUIPMENT NOR SHALL THEY BE CLOSER THAN

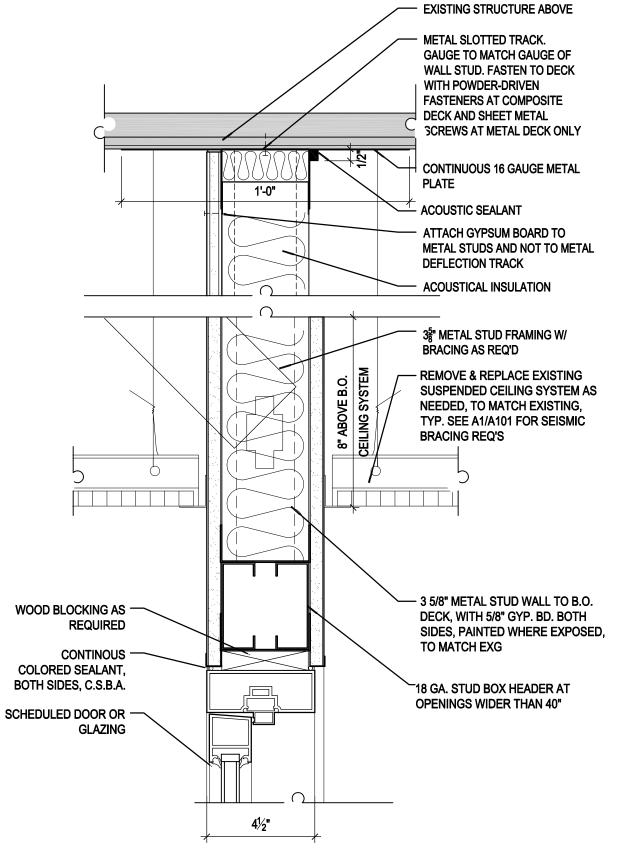
6" FROM ANY UN-BRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZE OR SIMILAR DEVICE SHALL BE USED WHERE

SCALE: 6"=1'-0"

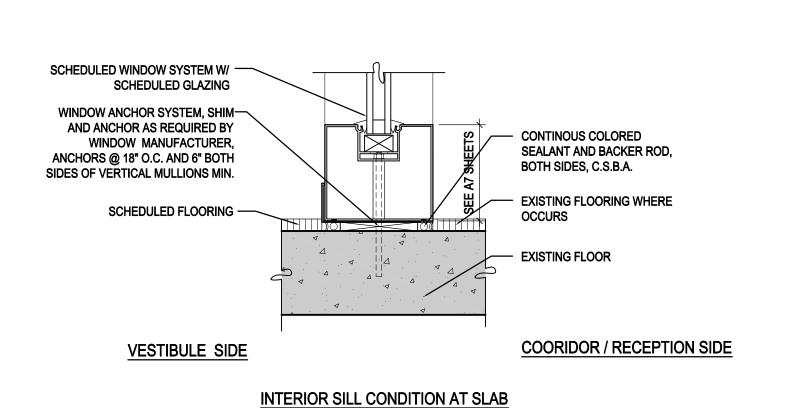
FLOOR PLAN

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

4½" SCALE: 3" = 1'-0"



ALUM. DOOR HEAD & JAMB DETAIL



ALUMINUM WINDOW SILL TYP.





CONT. COLORED SEALANT AND — BACKER ROD, BOTH SIDES, C.S.B.A.

AND ANCHOR AS REQUIRED

SCHEDULED WINDOW SYSTEM, SHIM —

GRIND SPLIT FACE SMOOTH @ FRAME, —

WHERE SPLIT FACE BLOCK OCCURS

EXISTING MASONRY WALL -



ROOM NAME

ROOM NUMBER

DOOR SYMBOL

CLIENT NUMBER: 2018-08-13

DATE ISSUED:

FLOOR PLAN & DETAILS

CLIENT NUMBER:

REV DATE DESCRIPTION

DATE ISSUED:

2018-08-13

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STRUCTURAL DESIGN CRITERIA

RISK CATEGORY: LOAD(S): DEAD LOAD: DL = 20 PSFLIVE LOAD(S): LL = 20 PSFWIND LOAD: WL = 5 PSF (INTERIOR)SEISMIC: PROCEDURE: EQUIVALENT LATERAL FORCE

SITE CLASS: IMPORTANCE FACTOR: I = 1.0SEISMIC DESIGN CATEGORY: D SPECTRAL RESPONSE ACCELERATIONS: Ss = 1.201S1 = 0.449SPECTRAL RESPONSE COEF: SDS = 0.816

SOILS: NET ALLOWABLE SOIL PRESSURE = 1500 PSF, TO BE VERIFIED.

SD1 = 0.464

GENERAL

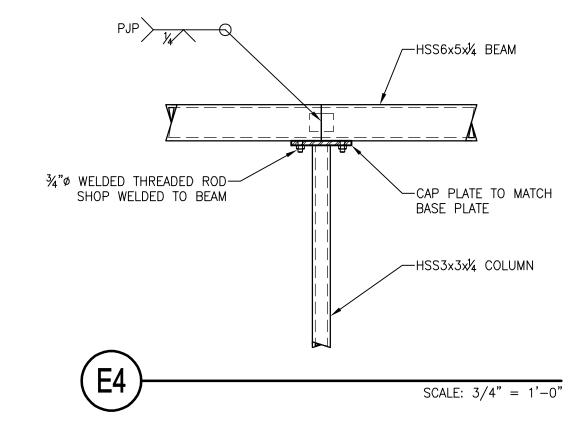
- 1. ALL DETAILS, SECTIONS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES. GENERAL NOTES SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.
- 2. REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS.
- 3. ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN CONFORMANCE WITH THE 2012 INTERNATIONAL BUILDING CODE.
- 4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.
- 5. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.
- 6. DRAWINGS INDICATE THE FINISHED PRODUCT. THEY DO NOT INDICATE A METHOD OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH PRECAUTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, ETC.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER FOR ANY CHANGES MADE AS A RESULT OF A DEVIATION FROM THE CONTRACT DOCUMENTS, DEVIATION FROM THE SPECIFICATIONS, FAULTY MATERIALS, OR FAULTY WORKMANSHIP.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE
- 9. DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.
- 10. SIZES, LOCATIONS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO PLACING CONCRETE OR FABRICATING

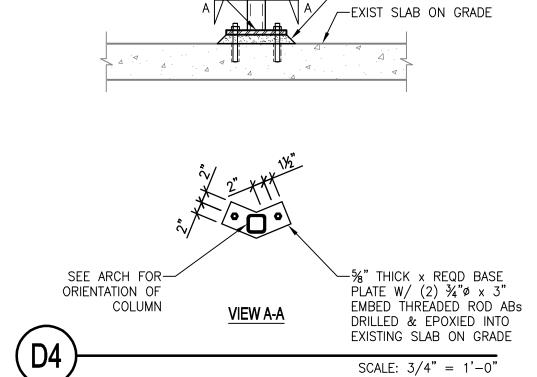
STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH BOTH THE AISC "MANUAL OF STEEL CONSTRUCTION" CONTAINING THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS, INCLUDING THE "CODE OF STANDARD PRACTICES" (LATEST EDITION), AND WITH THE IBC 2012 EDITION.
- 2. ALL WIDE FLANGE STRUCTURAL STEEL SHALL BE ASTM A992 AND ALL MISCELLANEOUS SHAPES SHALL BE ASTM A36, UNLESS NOTED
- 3. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B; YIELD STRESS = 46 KSI.
- 4. USE A325 BOLTS FOR STEEL TO STEEL CONNECTIONS, F1554 GR36 FOR ANCHOR BOLTS, AND A307 BOLTS FOR ALL OTHER CONNECTIONS (UNLESS SPECIFIED OTHERWISE ON DRAWINGS). USE 3/4" DIAMETER MINIMUM.
- 5. PRIOR TO FABRICATION AND ERECTION, SHOP DRAWINGS FOR ALL STEEL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWING DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
- 6. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES AND BY WELDERS CERTIFIED BY AWS STANDARDS WITHIN THE PAST 12 MONTHS; PROVIDE WRITTEN CERTIFICATION IF REQUESTED. ALL WELDS SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FOOT-POUND (27.1N-m) AT 0° F UNLESS NOTED OTHERWISE ON THE PLANS.
- 7. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE APPROPRIATE MINIMUM BOLT TENSION IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." THE PREFERRED METHOD OF TIGHTENING IS BY USE OF "TWIST OFF TYPE TENSION CONTROL BOLT ASSEMBLIES." "DIRECT TENSION INDICATOR" AND THE TURN-OF-NUT METHOD MAY ALSO BE USED.
- 8. ALL BEAM CONNECTIONS, NOT SHOWN TO BE MOMENT CONNECTIONS AND NOT DETAILED OTHERWISE SHALL BE MADE USING AISC STEEL CONSTRUCTION MANUAL (14TH EDITION) TABLE 10-10 "SINGLE PLATE CONNECTIONS" WITH THE MAXIMUM NUMBER OF ROWS SHOWN FOR THAT BEAM.

DRILL & EPOXY

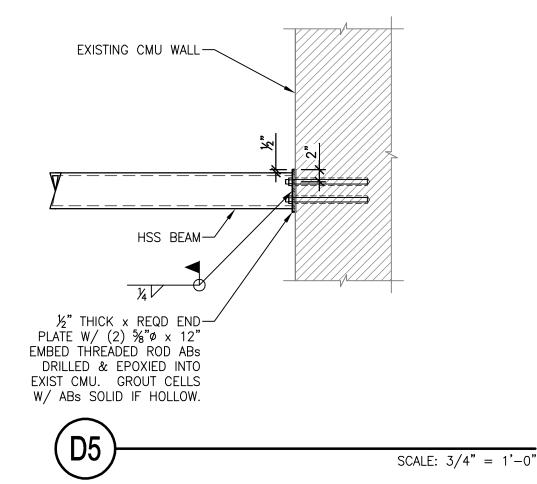
- 1. USE HILTI RE 500 SD ADHESIVE SYSTEM OR EQUIVALENT FOR CONCRETE AND SOLID GROUTED MASONRY CONNECTIONS.
- 2. TEN PERCENT OF ALL ANCHORS PLACED SHALL BE RANDOMLY TESTED TO 100% OF MANUFACTURER'S SPECIFIED ALLOWABLE LOAD. IF ANY ANCHOR FAILS IT SHALL BE REPLACED AND RETESTED AT NO ADDITIONAL COST TO THE OWNER. IF AN ANCHOR FAILS, 100% OF ALL OTHER ANCHORS INSTALLED BY THAT SAME CREW SHALL BE TESTED AT NO ADDITIONAL COST TO THE OWNER.

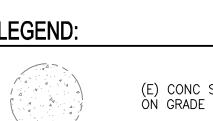




−HSS3x3x¼ COLUMN

—1½"± NON-SHRINK GROUT





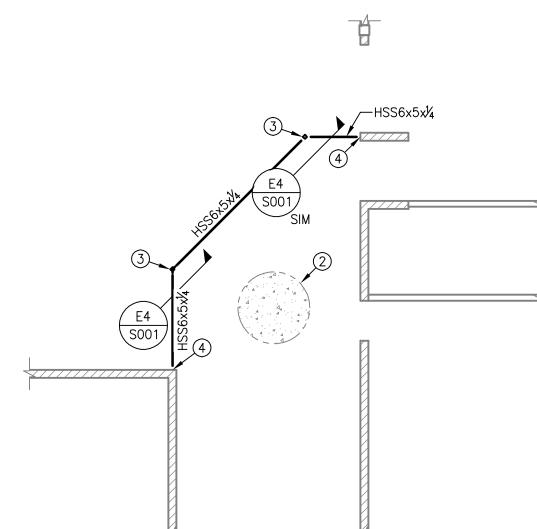
ÒŃ GRADE STEEL COLS -

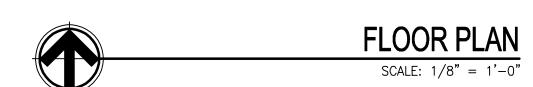
PLAN NOTES: CIRCLED NOTES ARE KEYED ON PLAN.

SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, TYPICAL. NOT ALL NOTES MAY APPLY TO AREA SHOWN ON SHEET.

- THIS SHEET FOR ADDITIONAL INFORMATION. (2). EXISTING 6" SLAB ON GRADE, TO BE VERIFIED BEFORE
- PLACEMENT OF COLUMN & BASE PLATE. (3). HSS3x3x1/4 COLUMNS, SEE DETAIL **D4/S001** FOR BASE
- 4). SEE DETAIL **D5/S001** FOR HSS BEAM TO MASONRY WALL CONNECTION.

DETAILS.









1. SEE STRUCTURAL NOTES ON

CLIENT NUMBER: DATE ISSUED: 7-13-18

PLATE ANĎ ANCHORAGE

SECURIT

PROVO SCHOOL DISTRICT 305 EAST 2320 NORTH, PRO

STRUCTURAL FLOOR PLAN & DETAILS

	ABBREVIATION SCHEDULE					
	NOTE: NOT ALL ABBREVIATIONS MAY BE USED.					
A A ADJ AFF AHJ AL C CB CKT C.O.'S CU EA ELEC EMT ENT EQUIP EXP FA CP FLA FMC FOB HOA HP IG IMC INS	ABOVE COUNTER AMP OR AMPS ADJACENT ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION ALUMINUM CONDUIT CIRCUIT BREAKER CIRCUIT CONVENIENCE OUTLETS COPPER EACH ELECTRICAL EMERGENCY ELECTRIC METALLIC TUBING EQUIPMENT ELECTRIC WATER COOLER EXISTING EXPLOSION PROOF FIRE ALARM FIRE ALARM FIRE ALARM CONTROL PANEL FULL LOAD AMPS FLEXIBLE METAL CONDUIT FREIGHT ON BOARD GROUND CONDUCTOR HAND-OFF-AUTO HORSE POWER ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSULATED	ISO KVA KW LFMC LFNC MCA MLO N.C. N.I.C. N.I.C. N.I.C. OCP QTY R REQ. RMC RNC RNC RR SS SCP TR TYP TVSS UF UG U.N.O. W/ WP XFMR	ISOLATED KILO VOLT AMPERES KILOWATTS LIQUID-TIGHT METAL CONDUIT LIQUID-TIGHT NONMETAL CONDUIT MINIMUM CIRCUIT AMPS MAIN LUGS ONLY NORMALLY CLOSED NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN ON CENTER(S) OVER CURRENT PROTECTION QUANTITY REMOVE REQUIREMENTS RIGID METAL CONDUIT RIGID NONMETALLIC CONDUIT REMOVE AND RELOCATE SURGE SUPPRESSION SECURITY CONTROL PANEL TAMPER RESISTANT TYPICAL TRANSIENT VOLTAGE SURGE SUPPRESSOR UNDER FLOOR UNDERGROUND UNLESS NOTED OTHERWISE WITH WEATHER PROOF TRANSFORMER			

	LIGHTING SYME	BOLS	
	XTURE SYMBOLS ARE GENERAL IN NATURE AND MAY BE SHOWN OF	N THE DRAWINGS IN	VARIOUS SIZES AND SHAPES. REFER TO
2. ARROWS	S INDICATE AIMING DIRECTION.		
SYMBOL	DESCRIPTION	MOUNTING	REMARKS
99	ARM-MOUNTED SINGLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	ARM-MOUNTED DOUBLE-HEAD LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
0 0	POST-TOP SINGLE-HEAD, LIGHT FIXTURE AND POLE	AS SPECIFIED OR DETAILED	
	WALL-MOUNTED FIXTURE	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
0 0	LIGHT BOLLARD	AS SPECIFIED OR DETAILED	
<	FLOOD LIGHT	AS SPECIFIED OR DETAILED	
4	RECESSED WALL FIXTURE OR STEP LIGHT	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
	FLUORESCENT LIGHT FIXTURES	AS SPECIFIED OR DETAILED	
	PARABOLIC - LOUVERED LIGHT FIXTURES	AS SPECIFIED OR DETAILED	
	RECESSED INDIRECT FLUORESCENT LIGHT FIXTURES	AS SPECIFIED OR DETAILED	
<u> </u>	WALL-MOUNTED LINEAR FLUORESCENT LIGHT FIXTURE	AS SPECIFIED OR DETAILED	
	FLUORESCENT LINEAR WALL WASHER	AS SPECIFIED OR DETAILED	
	RECESSED DOWN LIGHT	AS SPECIFIED OR DETAILED	
	RECESSED WALL-WASHER OR DIRECTIONAL DOWNLIGHT	AS SPECIFIED OR DETAILED	IF SHOWN, ARROW INDICATES AIMING DIRECTION
0	SURFACE OR PENDANT-MOUNTED LIGHT FIXTURE	AS SPECIFIED OR DETAILED	
Ю	WALL-MOUNTED LIGHT FIXTURE	AS SPECIFIED OR DETAILED	REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT
4	TRACK OR MONO-POINT LIGHT FIXTURE	AS SPECIFIED OR DETAILED	IF SHOWN, ARROW INDICATES AIMING DIRECTION
D	WALL SCONCE	AS SPECIFIED OR DETAILED	
	FLUORESCENT EGRESS LIGHT FIXTURE	AS SPECIFIED OR DETAILED	THIS IS AN <u>EXAMPLE</u> OF AN EGRESS LIGHT FIXTURE. EGRESS LIGHT FIXTURES ARE HALF-SHADED DIAGONALLY.
•	FLUORESCENT EMERGENCY (NON-EGRESS) LIGHT FIXTURE	AS SPECIFIED OR DETAILED	THIS IN AN EXAMPLE OF AN EMERGENCY (NON-EGRESS) LIGHT FIXTURE. EMERGENCY FIXTURES ARE FULLY-SHADED.
⊗	CEILING MOUNTED EXIT SIGN	CEILING	DARKENED PORTION OF SIGN INDICATES FACE(S); ARROW(S) INDICATE CHEVRON
ŀ ⊗	WALL-MOUNTED EXIT SIGN	WALL ABOVE DOOR	DIRECTION(S)
⊗	WALL-MOUNTED EXIT SIGN W/ EMERGENCY LIGHT FIXTURE	WALL ABOVE DOOR	
TC	TIME CLOCK	+60"	
L L	EMERGENCY LIGHT FIXTURE	AS NOTED	
<u> </u>	ELECTRIC PHOTOCELL	N/A	MOUNT ON ROOF FACING NORTH SKY
(XX)	LIGHT FIXTURE CALLOUT (LETTER DENOTES FIXTURE TYPE)		

GENERAL PROJECT NOTES:

- 1. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR READING AND APPLYING WHAT IS IN THE SPECIFICATIONS TO THIS PROJECT. ANYTHING THAT IS NOT INCLUDED ON THE PROJECT THAT IS CALLED OUT IN THE SPECIFICATION SHALL BE LISTED ON THE SUBSTANTIAL COMPLETION PUNCHLIST. THE CONTRACTOR WILL BE REQUIRED TO REMEDY THESE DEFICIENCIES. THERE WILL BE NO EXCEPTIONS.
- 2. THE CONTRACTOR MAY SCHEDULE A PRE-CONSTRUCTION MEETING, AT THEIR DISCRETION WITH THE ELECTRICAL ENGINEER AND REVIEW THE DRAWINGS AND SPECIFICATIONS. THE MEETING SHALL BE A MAXIMUM OF ONE HOUR AND SHALL TAKE PLACE AT THE ENGINEER'S OFFICE.
- 3. THE FOLLOWING ITEMS ARE SOME OF THE REQUIREMENTS THAT ARE LISTED IN THE SPECIFICATIONS, THESE ITEMS DO NOT REPRESENT ALL ITEMS AND THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF THE SPECIFICATIONS:
- A. INSULATED THROAT CONNECTORS OR PLASTIC BUSHINGS SHALL BE UTILIZED FOR ALL CONDUIT SIZES USED ON THIS PROJECT.
- B. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL EQUIPMENT AS IT IS CALLED OUT IN THE SPECIFICATIONS.
- C. THE CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT AND BRACING FOR ALL ELECTRICAL EQUIPMENT AS REQUIRED BY LOCAL AND NATIONAL CODE.
- 4. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE WIRE IS LARGE ENOUGH FOR VOLTAGE DROP.
- 5. TTHE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID, AND SHALL EXAMINE ALL PHYSICAL CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE OF HIS WORK. NO EXTRA PAYMENTS WILL BE ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO DO SO.

 ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE PROMPTLY IDENTIFIED TO THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.
- 6. THE CONTRACTOR SHALL MAKE SURE THAT ALL BRANCH CIRCUITS THAT ARE AFFECTED BY THIS PROJECT ARE NOT OVERLOADED. PROVIDE ADDITIONAL BRANCH CIRCUITS FROM ELECTRICAL PANELS AS NECESSARY TO COMPLY WITH THE BRANCH CIRCUIT LOADING REQUIREMENTS. PROVIDE ALL MATERIAL AND LABOR AS NECESSARY FOR A COMPETE AND OPERATING SYSTEM.
- 7. PROVIDE UPDATED, TYPED PANELBOARD SCHEDULE(S) TO REFLECT ALL THE CHANGES MADE INCLUDING EXISTING LOADS. THE EXISTING LOADS SHALL BE NAMED THE SAME AS LISTED ON THE EXISTING PANELBOARD SCHEDULE.

SECURITY SYMBO	OLS			ELE
DESCRIPTION	MOUNTING	REMARKS		
MOTION DETECTOR	CEILING	SUBSCRIPT DENOTES DEGREES OF MONITORED AREA		MOUN NOTEI
KEYPAD	+48"		2.	WHER
OVERHEAD MAGNETIC CONTACT DOOR SWITCH	DOOR		3.	WHER
MAGNETIC CONTACT DOOR SWITCH	DOOR		"	MOUN

S	SIREN	+90"				
	ACCESS CONTROL SYMBOLS					
SYMBOL	DESCRIPTION	MOUNTING	REMARKS			
REX	REQUEST-TO-EXIT MOTION DETECTOR	CEILING				
\$	ELECTROMAGNETIC DOOR STRIKE	DOOR				
\line{\phi}	MAGNETIC DOOR CONTACT SWITCH	DOOR				
	MAGNETIC LOCK	DOOR				
● _D	DURESS PUSH-BUTTON	BELOW DESK				
● LD	LOCK DOWN PUSH-BUTTON	DESK				
•	DOOR CONTROL PUSH-BUTTON	DESK				
PR	PROXIMITY CARD READER	+48"				
PIM	WIRELESS ACCESS PANEL INTERFACE MODULE	ABOVE CLG				
PΚ	PROXIMITY CARD READER / KEYPAD	+48"				

CEILING

GLASS BREAK DETECTOR

SYMBOL

MD

MR	MAGNETIC STRIP CARD READER	+48"	
	CLOSED CIRCUIT TELEVISI	ON SYMBOLS	3
SYMBOL	DESCRIPTION	MOUNTING	REMARKS
FIX 🗸	CLOSED CIRCUIT TELEVISION CAMERA (FIXED)	CEILING	
PTZ 🗸	CLOSED CIRCUIT TELEVISION CAMERA (PAN/TILT/ZOOM)	CEILING	
PTZ	CLOSED CIRCUIT TELEVISION CAMERA (HIGH SPEED DOME WITH PAN / TILT / ZOOM HEAD)	CEILING	
TV	CLOSED CIRCUIT TELEVISION MONITOR	DESK	
MATRIX	MATRIX SWITCHER	DESK	
(EJ)	FIBER JUNCTION BOX	72" TO TOP OF BOX	

GEAR AND CONTROL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	REMARKS
\$⊤	MANUAL STARTER WITH THERMAL OVERLOAD(S)	AT EQUIPMENT	
4	ELECTRIC MOTOR		
ㅁ	NON-FUSED DISCONNECT SWITCH	TOP AT +48"-72"	
E	FUSED DISCONNECT SWITCH	TOP AT +48"-72"	
	CIRCUIT BREAKER AND ENCLOSURE	TOP AT +48"-72"	
	MAGNETIC STARTER	TOP AT +48"-72"	
Z ₽	COMBINATION MAGNETIC STARTER / NON-FUSED DISCONNECT	TOP AT +48"-72"	
ď	COMBINATION MAGNETIC STARTER / FUSED DISCONNECT	TOP AT +48"-72"	
₩	COMB. MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)	TOP AT +48"-72"	
VFD	COMB. VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)	FLOOR OR WALL AS SPECIFIED	TOP AT +72" IF WALL MOUNTED
RVS	REDUCED VOLTAGE STARTER	FLOOR OR WALL AS SPECIFIED	TOP AT +72" IF WALL MOUNTED
-	LOAD CENTER (SURFACE-MOUNTED)	TOP AT +72"	14"W X 3"D
_	LOAD CENTER (FLUSH-MOUNTED)	TOP AT +72"	14"W X 3"D
	LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	TOP AT +72"	20"W X 6"D
	LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED)	TOP AT +72"	20"W X 6"D
	POWER DISTRIBUTION PANELBOARD	WALL	THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION. CROSS
	SWITCHBOARD	FLOOR	HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. 'L2A', 'MDP')
4	METER BASE	TOP AT +72"	FURNISH SWITCH UNLESS FURNISHED BY ANOTHER DIVISION. INSTALL AND
:	OPEN - STOP - CLOSE SWITCH	+60"	CONNECT COMPLETE. REFER TO RELATED SPECIFICATION SECTIONS.
T	HVAC THERMOSTAT	+60"	PROVIDED BY DIVISION 15000 U.N.O.
Ø	HAND - OFF - AUTO SWITCH	+60"	
GF -	GROUND FAULT PROTECTION		

YMBOL	DESCRIPTION	MOUNTING	REMARKS
\$	SINGLE-POLE TOGGLE SWITCH	+48"	TALIFI WATO
φ \$ ^a	SINGLE-POLE TOGGLE SWITCH	+48"	SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
\$ ₂	DOUBLE-POLE TOGGLE SWITCH	+48"	
\$ 3	THREE-WAY TOGGLE SWITCH	+48"	
\$4	FOUR-WAY TOGGLE SWITCH	+48"	
\$ _K	KEY-OPERATED SINGLE-POLE TOGGLE SWITCH	+48"	
\$ _P	SINGLE-POLE TOGGLE SWITCH WITH PILOT LIGHT	+48"	
\$ _{DIM}	DIMMER SWITCH	+48"	RATE DIMMER SWITCH FOR MAXIMUM POSSIBLE WATTAGE
\$ _{TIM}	TIMER SWITCH	+48"	
\$\$	(2) SINGLE-POLE TOGGLE SWITCH	+48"	DUAL LEVEL SWITCH OUTBOARD LAMPS SEPARATELY FROM INBOARD LAMPS.
\$a LV	LOW VOLTAGE MOMENTARY CONTACT SWITCH	+48"	
\$ _{3PM}	3-POSITION MOMENTARY CONTACT SWITCH	+48"	REFER TO DETAIL UP-ON; CENTER-NEUTRAL; DOWN-OFF
\$ _{3PN}	3-POSITION MAINTAINED CONTACT SWITCH	+48"	UP-ON; CENTER-OFF; DOWN-ON
•	OCCUPANCY SENSOR	AS NOTED	CEILING MOUNTED WITH SUBSCRIPT 'C'; WALL-MOUNTED WITH SUBSCRIPT 'W'
=	SPLIT-WIRED DUPLEX RECEPTACLE	+18"	
Θ	SIMPLEX RECEPTACLE	+18"	
₽	DUPLEX RECEPTACLE	+18"	
€	125/250V RECEPTACLE	+18"	RANGE NEMA 14-50R DRYER NEMA 14-30R
#	FOURPLEX RECEPTACLE	+18"	
=	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE	+18"	
\	GROUND FAULT CIRCUIT INTERRUPTER FOURPLEX RECEPTACLE	+18"	
=	EMERGENCY DUPLEX RECEPTACLE	+18"	
#	EMERGENCY FOURPLEX RECEPTACLE	+18"	
	MULTI-OUTLET ASSEMBLY	4" ABOVE BACKSPLASH	
	POWER / TELEPHONE POLE	FLOOR/CEILING	
\Phi	CORD DROP WITH DUPLEX RECEPTACLE		REFER TO DETAIL
(5-20R)	SPECIAL PURPOSE OUTLET	+18"	SUBSCRIPT IN PARENTHESIS INDICATES NEMA CONFIGURATION IF SHOWN. REFER TO DRAWINGS AND/OR EQUIPMENT SCHEDULES. CONFIRM EXACT CONFIGURATION WITH OWNER PRIOR TO INSTALLATION.

LECTRICAL SYMBOL SCHEDULE GENERAL NOTES

BREAKLINE

- DUNT ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS. UNLESS OTED OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR TO CENTER OF OUTLET BOX.
- HERE OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUBSCRIPTS, REFER TO ABBREVIATION SCHEDULE FOR DEFINED REQUIREMENTS.
- HERE OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIPT 'A', MOUNT AT 4" ABOVE COUNTER. IF COUNTER HAS A BACK SPLASH,
- DUNT AT 4" ABOVE BACK SPLASH. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS AND COORDINATE WITH CASEWORK SUPPLIER. NOT ALL ELECTRICAL SYMBOLS MAY BE USED.

	GENERAL SYMBOLS			
SYMBOL	DESCRIPTION	REMARKS		22
XX	KEYED NOTE			illing.
1 E-1	DETAIL REFERENCE	TOP NUMBER INDICATES DETAIL NUMBER; BOTTOM LETTER-NUMBER INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN; WHERE NOT SPECIFICALLY REFERENCED, DETAIL IS GENERAL IN NATURE AND SHALL APPLY WHERE APPLICABLE.		BEGISTER E
2 E-1	ELEVATION REFERENCE	TOP NUMBER INDICATES ELEVATION NUMBER; BOTTOM LETTER-NUMBER INDICATES WHERE ELEVATION IS SHOWN.	_	
3 E-1	SECTION REFERENCE	TOP NUMBER INDICATES SECTION NUMBER; BOTTOM LETTER NUMBER INDICATES WHERE SECTION IS SHOWN.	_	
100	ARCHITECTURAL ROOM NUMBER			
AHU 1	EQUIPMENT NAME / NUMBER	TOP NUMBER ABBREVIATES EQUIPMENT NAME OR TYPE; BOTTOM NUMBER INDICATES EQUIPMENT NUMBER. REFER TO EQUIPMENT SCHEDULE.		
\triangle	REVISION NUMBER	USED TO DENOTE CHANGES EITHER ISSUED BY ADDENDUM OR DURING CONSTRUCTION AND TO DENOTE RECORD		

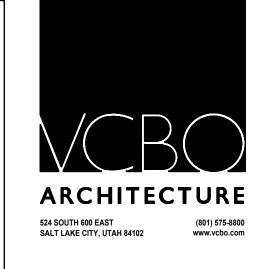
DRAWING CHANGES.

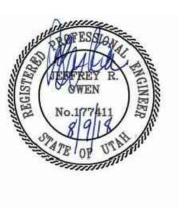
USED TO BREAK DRAWINGS.

	FIRE A	LARM SYMBOLS	
SYMBOL	DESCRIPTION	MOUNTING	REMARKS
BDT	BEAM DETECTOR - TRANSMITTER	4" BELOW CEILING TO TOP OF DETECTOR	
BDR	BEAM DETECTOR - RECEIVER	4" BELOW CEILING TO TOP OF DETECTOR	
EOL	END OF LINE DEVICE	PER MANUFACTURER RECOMMENDATIONS	
	TAMPER SWITCH	AT VALVE	
W	WATER FLOW INDICATOR	ON FIRE RISER	
FSD	FIRE/SMOKE DAMPER	TOP AT 72"	
<u>()</u>	HEAT DETECTOR	CEILING	
0	SMOKE DETECTOR	CEILING	
OD	DUCT SMOKE DETECTOR	SIDE OF DUCT	
E	FIRE ALARM MANUAL STATION	+48"	
Z	CONTROL MODULE	AT DEVICE(S) TO BE CONTROLLED	
	MONITOR MODULE	AT DEVICE(S) TO MONITOR	
R	FAN SHUTDOWN RELAY	AT FAN CONTROL PANEL	
0	MAGNETIC DOOR HOLDER	COORDINATE WITH DOOR INSTALLER	COORDINATE WITH DOOR INSTALLER; SUBSCRIPT 'F' INDICATES TO MOUNT AT FLOOR LEVEL
WF	WATER FLOOD INDICATOR	FLOOR	
⊞⊲	AUDIO HORN		
M	MINI AUDIO HORN		SUBSCRIPT 'WP' INDICATES THAT A WEATHER PROOF BACK BOX IS REQ.
Ø	FIRE ALARM VISUAL STROBE	MOUNT PER ALL	SUBSCRIPT 'C' INDICATES
⊠⊲	FIRE ALARM AUDIO/VISUAL HORN/STROBE	NFPA 72 REQUIREMENTS.	CEILING MOUNTING.
M	MINI AUDIO/VISUAL HORN/STROBE	INEQUINEIVIENTS.	
্ব	FIRE ALARM AUDIO SPEAKER		NUMERIC SUBSCRIPT INDICATES CANDELLA RATING OF STROBE (I.E 15, 75, 110)
V	FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE		10 (1110 OF OFFICE (I.E. 10, 10, 110)
∇ _F	FIRE FIGHTERS TELEPHONE JACK	+48"	
	FIRE PROTECTION SPRINKLER RISER BELL	+90"	FURNISHED BY FIRE PROTECTION CONTRACTOR AND INSTALLED AND CONNECTED BY DIV. 16000

SYMBOL	DESCRIPTION	REMARKS
	1 CIRCUIT, 2 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS REQUIRED.
#	2 CIRCUIT, 3 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	SHORT CROSS LINES: NUMBER OF SHORT CROSS LINES INDICATES NUMBER OF PHASE, TRAVELER, AND/OR SWITCHED CONDUCTORS REQUIRED IF GREATER THAN 1 (ONE).
	3 CIRCUIT, 4 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	LONG CROSS LINES: NUMBER OF LONG CROSS LINES INDICATES NUMBER OF NEUTRAL CONDUCTORS REQUIRED FOR MULTI-WIRE HOME RUNS.
 	MULTIPLE WIRE BRANCH CIRCUITING BETWEEN FIXTURES, SWITCHES, DEVICES, ETC.	EQUIPMENT GROUND AND ISOLATED GROUND CONDUCTORS: EQUIPMENT GROUND AND ISOLATED GROUND CONDUCTORS ARE NOT SHOWN, BUT ARE REQUIRED AS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
	BRANCH CIRCUITING (U.N.O.) TURNED UP OR TOWARDS OBSERVER.	
	BRANCH CIRCUITING (U.N.O.) TURNED DOWN OR AWAY FROM OBSERVER.	
 5	BRANCH CIRCUITING (U.N.O.) CONTINUATION	
	CONDUIT STUB-IN	CAP AND MARK
	INCOMING SERVICE	
0	JUNCTION BOX	MOUNT AS NOTED. SUBSCRIPT 'F' INDICATES TO PROVIDE A FLOOR BOX WITH BLANK COVERPLATE

BRANCH CIRCUITING SYMBOLS







REV DATE DESCRIPTION

CLIENT NUMBER: DATE ISSUED: 7-13-18

EG101

POWER SUPPLY.

L DOOR POSITION SWITCH.

EXTEND A CAT 6. CABLE TO THE EXISTING

POWERNET CABLING. ROUTE THROUGH

EXISTING CEILING

- MULLION MOUNTED CARD

ROUGH-IN.

READER. MOUNT ON UNSECURED SIDE OF DOOR. VERIFY LOCATION

WITH THE OWNER PRIOR TO ANY

WIRING TO RELEASE BUTTONS AT DESK.

NEW ELECTRONIC -

STRIKE.

- EXTEND A CAT 6. CABLE TO THE EXISTING

POWERNET CABLING. ROUTE THROUGH

EXISTING CEILING

MULLION MOUNTED CARD

ROUGH-IN.

READER. MOUNT ON UNSECURED

SIDE OF DOOR. VERIFY LOCATION

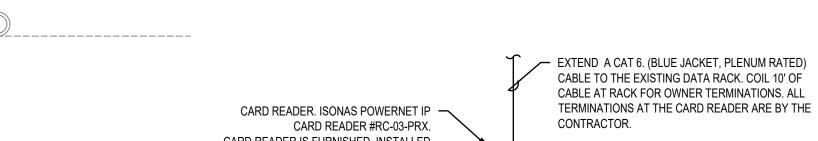
WITH THE OWNER PRIOR TO ANY

TO ADDITIONAL DOOR POSITION -

SWITCHES.

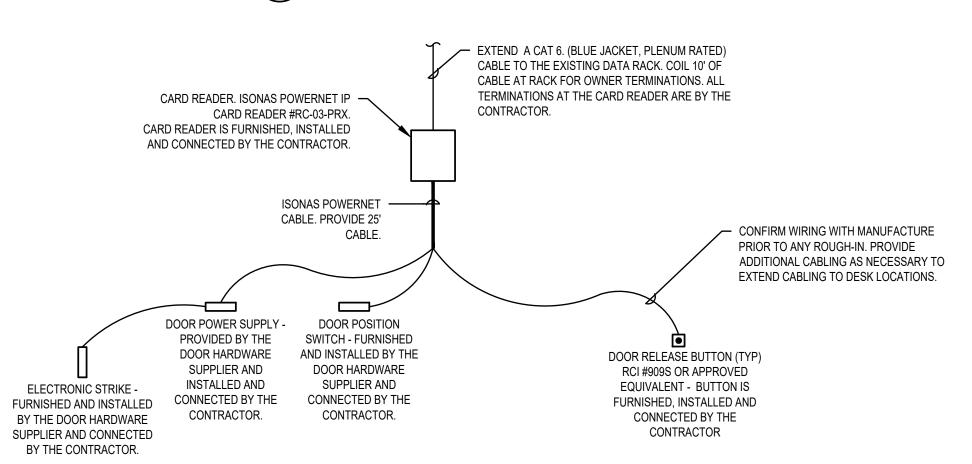
─ DOOR POSITION SWITCH.

- ELECTRONIC STRIKE.



CARD READER IS FURNISHED, INSTALLED AND CONNECTED BY THE CONTRACTOR. ISONAS POWERNET CABLE. PROVIDE 25' CABLE. DOOR POSITION SWITCHS - FURNISHED AND INSTALLED BY THE DOOR HARDWARE SUPPLIER AND **ELECTRONIC STRIKE -**CONNECTED BY THE FURNISHED AND INSTALLED CONTRACTOR. BY THE DOOR HARDWARE SUPPLIER AND CONNECTED BY THE CONTRACTOR.

B5 TYPICAL DOOR RISER DIAGRAM - NEW DOOR SCALE: NONE



KEYED NOTES:

- CONFIRM EXACT MOUNTING LOCATION OF ALL DOOR RELEASE BUTTONS AT THE RECEPTION DESK WITH THE OWNER PRIOR TO ANY ROUGH-IN. ALL CABLING TO BUTTONS SHALL BE CONCEALED IN THE CEILING AS WALLS. ROUTE CABLING SURFACE BELOW THE DESK. LABEL BUTTONS AS DIRECTED BY THE OWNER.
- 2. PUSH BUTTON TO RELEASE RECEPTION DOOR.
- 3. EXISTING DATA RACK.
- 4. PROVIDE NEW EXIT SIGN LITHONIA #LQM S W R EL N (OR APPROVED EQUIVALENT).
- 5. CONNECT NEW EXIT SIGN TO EXISTING BRANCH CIRCUIT FEEDING EXIT SIGNS IN THE SPACE. CONTRACTOR TO CONFIRM CIRCUIT PRIOR TO INSTALLATION. CONCEAL BRANCH CIRCUIT TO THE GREATEST EXTENT POSSIBLE. PROVIDE SURFACE RACEWAY WHERE BRANCH CIRCUIT CAN NOT BE CONCEALED.
- 6. ROUTE ALL CABLING THROUGH THE DOOR MULLION AND INTO THE ACCESSIBLE CEILING SPACE. ALL NEW CABLING SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE. SURFACE RACEWAY MAY BE USED WHERE CABLING IS EXTENDED TO THE RECEPTION DESK(S) WERE BLOCK WALLS EXIST. CONFIRM ALL SURFACE RACEWAY LOCATIONS AND ROUTING WITH THE OWNER PRIOR TO INSTALLING ANY SURFACE RACEWAYS.
- EXISTING PANELBOARD.
- 8. CONNECT TO A 20 AMP, 1 POLE SPARE CIRCUIT BREAKER IN EXISTING PANEL.
- 9. PROVIDE SURFACE RACEWAY FROM DOOR MULLION TO
- ACCESSIBLE CEILING SPACE. KEEP SURFACE RACEWAY TO A MINIMUM. CONFIRM ALL SURFACE RACEWAY LOCATIONS AND ROUTING WITH THE OWNER PRIOR TO INSTALLING ANY SURFACE RACEWAYS.

GENERAL NOTES:

- THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID, AND SHALL EXAMINE ALL PHYSICAL CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE OF HIS WORK. NO ADDITIONAL PAYMENTS WILL BE ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO DO SO. ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE PROMPTLY IDENTIFIED TO THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.
- CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER FOR DOOR REQUIREMENTS, ROUGH-IN AND WIRING.
- CONTRACTOR TO REFER TO THE MANUFACTURES WRITTEN INSTRUCTION FOR ALL REQUIRED INSTALLATION REQUIREMENTS AND WIRING REQUIREMENTS.
- INSTALL ACCESS CONTROL ON THE RIGHT HAND DOOR UNLESS OTHERWISE DIRECTED BY THE OWNER. VERIFY DOOR ROUGH-IN WITH THE OWNER PRIOR TO ANY ROUGH-IN.

CAT 6 CABLING GENERAL NOTES:

- CONTRACTOR SHALL COORDINATE ALL CABLING REQUIREMENTS AND WORK WITH OWNERS IT MANAGER PRIOR TO ROUGH-IN OR PULLING ANY CABLING.
- ALL CABLES SHALL BE TERMINATED AND LABELED AT BOTH ENDS. PROVIDE LABELING AS DIRECTED BY OWNERS IT
- CONTRACTOR IS RESPONSIBLE FOR TESTING ALL CABLES AND CONNECTIONS TO ENSURE BICSI AND EIA/TIA STANDARDS ARE

MET. PROVIDE A WRITTEN REPORT TO OWNER FOR EACH CABLE

- 4. ALL CABLING SHALL BE RUN IN CABLE TRAY WHERE AVAILABLE. WHERE CABLES ARE ROUTED IN ACCESSIBLE CEILINGS, SECURE AND SUPPORT CABLES WITH J-HOOKS. INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OR EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS. USE UL-LISTED PLENUM CABLE THROUGHOUT THE
- 5. THE CONTRACTOR SHALL PROVIDE ONE (1) PATCH CABLE PER INSTALLED CABLE. CONFIRM LENGTH WITH OWNERS IT MANAGER PRIOR TO ORDERING.

SURFACE RACEWAY

ENTIRE SYSTEM.

- PROVIDE WIREMOLD #2900 SERIES LATCHING RACEWAY SYSTEM (OR APPROVED EQUIVALENT).
- THE LATCHING RACEWAY AND ALL SYSTEM COMPONENTS MUST EXHIBIT NONFLAMMABLE SELF-EXTINGUISHING CHARACTERISTICS, TESTED TO COMPARABLE SPECIFICATIONS OF UL94V-0.
- THE 2900 SERIES LATCHING RACEWAY SHALL BE MANUFACTURED WITH A CO-EXTRUDED DESIGN OF RIGID PVC COMPOUND WITH A FLEXIBLE PVC HINGE. THE RACEWAY SHALL HAVE A SMOOTH FINISH, COLOR AS DETERMINED BY ARCHITECT AND SCHOOL DISTRICT.
- 4. THE LATCHING RACEWAY SHALL BE A ONE-PIECE DESIGN WITH A FLEXIBLE HINGE. THE COVER SHALL OPEN TO PROVIDE ACCESSIBILITY AND LATCH SECURELY CLOSED. TOTAL WIDTH SHALL BE 1.00" BY 0.50" DEEP WITH AN APPROXIMATE THICKNESS OF .04". THE RACEWAY SHALL BE AVAILABLE IN 6' AND 8' LENGTHS AND BE SUPPLIED WITH ADHESIVE TAPE BACKING. SUPPORT RACEWAY A MINIMUM OF EVERY 4' WITH AN APPROVED LAG TYPE FASTING DEVICE.
- 5. PROVIDE ALL FITTINGS (2900 SERIES) INCLUDING BUT NOT LIMITED TO FLAT, INTERNAL AND EXTERNAL ELBOWS, TEES, DROP CEILING FITTING, COVER CLIPS, AND END CAPS. FIBER OPTIC FITTINGS MUST BE AVAILABLE INCLUDING, BUT NOT LIMITED TO FLAT, INTERNAL AND EXTERNAL ELBOWS AND TEES. THESE FITTINGS SHALL BE OF TWO-PIECE CONSTRUCTION (BASE AND COVER) WITH SWEPT BEND RADII OF 1.25" MINIMUM. THESE FITTINGS SHALL HAVE INTEGRATED CABLE RETENTION FEATURES TO ALLOW CABLE LAY-IN, THUS AVOIDING EXCESSIVE LOADING. FITTINGS SHALL INCORPORATE PROTECTIVE FLANGES ELIMINATING CABLE SCUFFING BY SCREW HEADS. THEY SHALL BE MANUFACTURED OF A RIGID PVC COMPOUND. THE FITTINGS SHALL HAVE A SMOOTH TEXTURE, COLORS TO MATCH THE RACEWAY. THEY SHALL OVERLAP THE RACEWAY TO HIDE UNEVEN CUTS.
- 6. DEVICE BOXES SHALL BE AVAILABLE FOR MOUNTING STANDARD DEVICES AND FACEPLATES. DEVICE BOXES SHALL BE SNAPPED ONTO A BASE. THEY SHALL BE MANUFACTURED OF RIGID PVC COMPOUND. THEY SHALL BE IN COLORS TO MATCH THE RACEWAY.
- 7. ALL WORK SHALL INCLUDE FURNISHING ALL RACEWAY AND APPROPRIATE FITTINGS AND DEVICE PLATES TO INSTALL A NONMETALLIC SURFACE RACEWAY SYSTEM. INSTALLER SHALL COMPLY WITH DETAILED MANUFACTURER'S INSTRUCTION SHEETS, WHICH ACCOMPANY SYSTEM COMPONENTS, AS WELL AS SYSTEM INSTRUCTION SHEETS.
- KEEP SURFACE RACEWAYS TO A MINIMUM. SURFACE RACEWAY SHALL BE FROM THE CEILING SPACE TO THE DEVICE.

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REV DATE DESCRIPTION

VCBO NUMBER:

CLIENT NUMBER: DATE ISSUED: 7-13-18

EY101