

Instructions to contractors: The general contractor will be responsible for: all power and lighting circuits; low voltage cable tray in corridors, conduit, and wall penetrations between points of service and the MDF rooms; conduit between high school MDF room and middle school MDF room; conduit between MDF room and point of service in alley for data, cable and phone service; MDF room plywood backer; and ceiling grid and ceiling tile. The bidding contractor will be responsible for all low voltage wiring, hangers, terminations, connections, and labeling; installation of devices called out on plans including hangers, seismic bracing, cutting of ceiling tile, receptacle box trim and covers; fire sealant of all wall penetrations; installation of all MDF racks and equipment (not identified on plans - specified elsewhere) including connections; service between high school MDF room and middle school MDF room; testing and verification of all low voltage wiring and service. Low voltage wiring not in cable tray or conduit to be supported by hangers from ceiling joists, not from ceiling grid or ceiling grid hangers. Low voltage devices to be independently supported, not connected to ceiling grid. Rooftop and outdoor services require weatherproof covers. Refer to plans A1.3, A2.3 and A3.3 for low voltage layout and specific scope of work. Other plans included for reference.

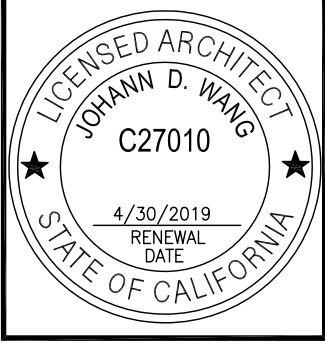


MAGNOLIA SCIENCE ACADEMY 18220 SHERMAN WAY, RESEDA, CA 91335

FRANCO ARCHITECTS INC.
12345 Ventura Blvd. H
Studio City, CA 91604
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MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

REV	DESCRIPTION	DATE
1	PLAN CHECK #1	6/14/2017
2	PD PLAN CHECK	10/31/2017
3	PD PLAN CHECK	12/14/2017

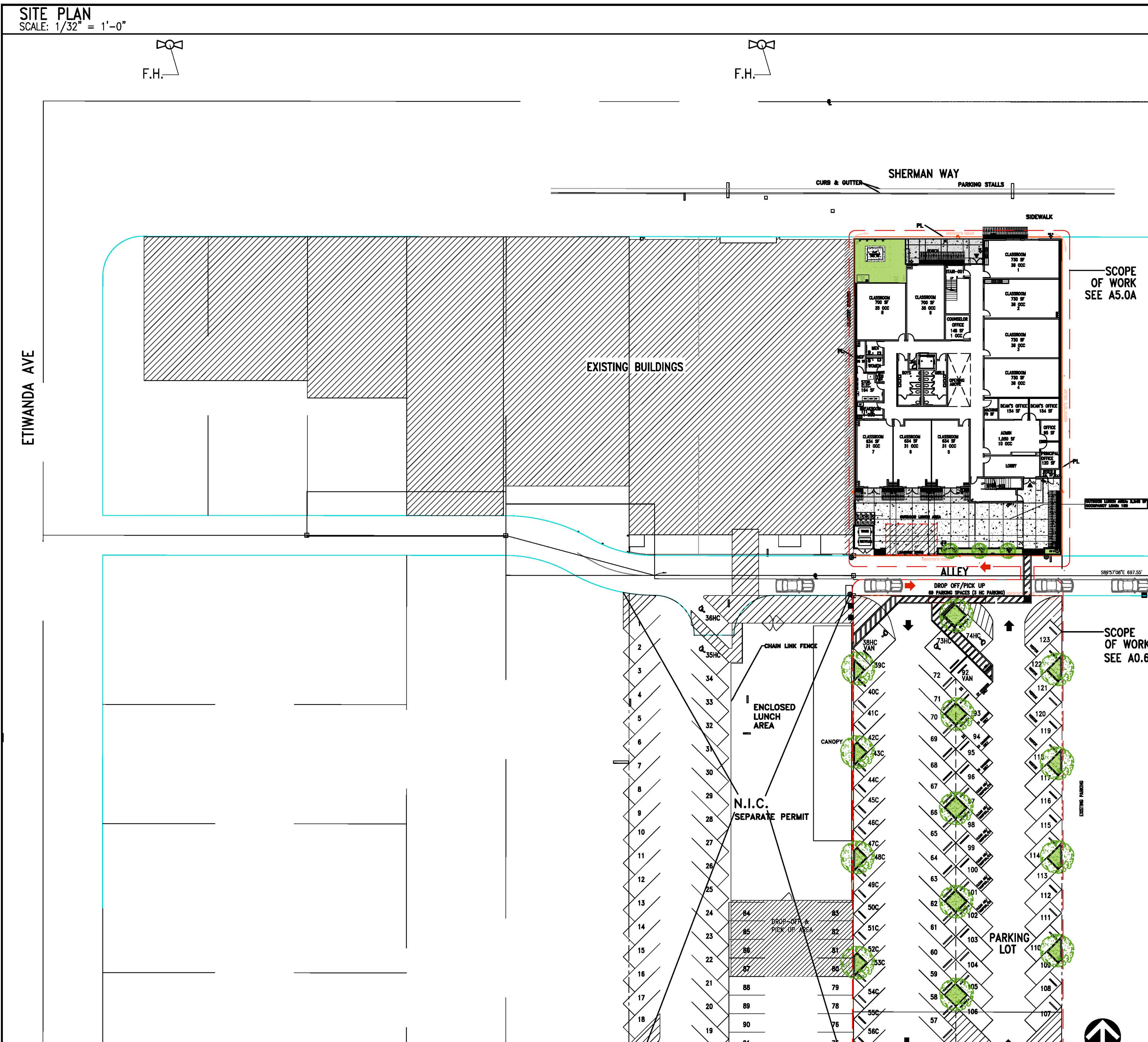


PROJECT
MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS
18220 SHERMAN WAY,
RESEDA, CA 91335

DRAWING TITLE
COVER
DRAWN BY
ISSUE DATE
12/14/2017
JOB NUMBER
DRAWING SCALE
AS NOTED
APPROVED BY

DRAWING NUMBER
A0.0

BID SET 03-07-18
NOTE: RENDERINGS ARE FOR REFERENCE ONLY. SEE PLANS FOR CONSTRUCTION



PROJECT INFORMATION

PROJECT: MAGNOLIA SCIENCE ACADEMY
 LOCATION: 18220 SHERMAN WAY, RESEDA, CA 91335
 BUILDING USE: EDUCATION - 9 THRU 12TH GRADE
 APPLICABLE CODES: 2016 CA BUILDING CODE (2016 CBC), LA BUILDING CODE, FIRE ALARM SYSTEM PER 907.2.3.2, 907.2.3, 907.2.1
 OCCUPANCY: E OCCUPANCY AND B OCCUPANCY
 CONSTRUCTION TYPE: TYPE III-B, FULLY SPRINKLERED (PER NFPA13)
 BUILDING HEIGHT: 43'-0"

SCOPE OF WORK

NEW 3 STORY CLASSROOM BUILDING W/PARTIAL ROOF TOP PLAY AREA
 FULLY-SPRINKLERED THREE-STORY BUILDING; 20 CLASSROOMS, INCLUDING SCIENCE LAB; ROOFTOP PLAY AREA

AREA SUMMARY

SITE PLAN SUMMARY
 SITE AREA: 16,845.6 SF
 BUILDING FOOT PRINT: 13,140 SF
 LOT COVERAGE: 78 %
 LOT AREA: 16,845.6 SF
 TOTAL BUILDING GROSS AREA: 25,228 SF (BUILDING AND ZONING) BUILDING AREA FOR SCHOOL FEE: 24,900 SF
 FAR = 25,228 SF / 16,845.6 SF = 1.50

PARKING SUMMARY

PARKING SUMMARY:
 HIGH SCHOOL REQ'D PARKING CALCULATION:
 BUILDING GROSS FLOOR AREA: 25,228 SF
 25,228 SF / 500 = 50 PARKING SPACES
 REQUIRED PARKING SPACES: 35 (30% REDUCTION FOR MASS TRANSIT)
 PARKING SPACE PROVIDED:
 68 PARKING STALLS
 (INCLUDING 3HC, 4 ELECTRIC VEHICLE PARKING STALLS, 6 CARPOOL/VANPOOL PARKING STALLS, 6 VISITOR PARKING STALLS)
 SHORT TERM BIKE PARKING SPACES REQUIRED: 82 (20 CLASSROOMS X 4 + OFFICE 2)
 SHORT BIKE PARKING SPACES PROVIDED: 82 (41 UNDER CANOPY)
 LONG TERM BIKE PARKING SPACES REQUIRED AND PROVIDED: 4 (2 + OFFICE 2)

PROJECT DIRECTORY

OWNER: MAGNOLIA SCIENCE ACADEMY 1
 18220 SHERMAN WAY,
 RESEDA, CA 91335
 TEL: (818)608-0507

ARCHITECT: FRANCO ARCHITECTS INC.
 12345 VENTURA BLVD., SUITE H
 STUDIO CITY, CA 91604
 TEL: (818) 754-2030 FAX (818) 754-2032

STRUCTURAL ENGINEER: B & B ASSOCIATES INC., #100
 PASADENA, CA 91103
 TEL: (626) 204-1088 FAX (626) 204-1099

ELECTRICAL ENGINEER: KIPRUST ENGINEERING INC.
 12934 KILLION STREET
 SHERMAN OAKS, CA 91401
 TEL: (818) 780-5354 FAX (818) 780-7036

MECHANICAL/PLUMBING ENGINEER: HYLE ENGINEERING
 18818 WYANDOTTE STREET
 RESEDA, CA 91335
 TEL: (818) 986-5889 FAX (818) 986-5875

LANDSCAPE ARCHITECTS: CARTER, ROMANEK LANDSCAPE ARCHITECTS, INC.
 11110 OHV AVENUE, SUITE 204
 LOS ANGELES, CALIFORNIA, 90025
 TEL: (310) 472-3900
 CELL: (310) 398-1035
 EMAIL: WAYNE@CARTER-ROMANEK.COM

MATERIALS

DESCRIPTION	L.A.R.R./ICC-ES
ENDURO KOTE (DECK COATING)	ICC-ES #ESR-2245
CHICAGO METALLIC CORP. CEILING SUSPENSION SYSTEMS	ICC-ES #ESR-2631
GAF MATERIALS CORP. (ROOF MATERIAL)	ICC-ES #ESR-1274
ANTI-GRAFFITI PAINT (UNFINISHED SURFACE)	#25286T
BITUTHENE WATERPROOFING MEMBRANE	#24396
SIMPSON WEDGE ANCHOR	#20682
3M FIRE BLOCKING FOAM SEALANT	ICC-ES #ESR-3165

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GROUND FLOOR				2ND FLOOR			3RD FLOOR/ROOF		
OCCUPANCY	FLOOR AREA NET	LOAD FACTOR	OCCUPANT LOAD	FLOOR AREA NET	LOAD FACTOR	OCCUPANT LOAD	FLOOR AREA NET	LOAD FACTOR	OCCUPANT LOAD
E	6,654 SF	20	332	7,880 SF	20	394	6,123 SF (ROOFTOP FOR PE)	15	408 ROOFTOP
B	1,198 SF	100	14	459 SF	100	25			
TOTAL	7,852 SF		346	8,339 SF		419			408

OCCUPANCY CALCULATIONS FOR DOOR EXITING - GROUND FLOOR				OCCUPANCY CALCULATIONS FOR STAIR EXITING-2ND FLOOR				OCCUPANCY CALCULATIONS FOR STAIR EXITING-ROOF							
TYPE OF USE	OCCUPANCY TYPE	LOAD	REQUIRED EXIT WIDTH PER TABLE 1005.1	TYPE OF USE	OCCUPANCY TYPE	LOAD	REQUIRED STAIRWAY WIDTH PER TABLE 1005.1	TYPE OF USE	OCCUPANCY TYPE	LOAD	REQUIRED STAIRWAY WIDTH PER TABLE 1005.1	TYPE OF USE	OCCUPANCY TYPE	LOAD	REQUIRED STAIRWAY WIDTH PER TABLE 1005.1
CLASSROOM AREA	E	332	346 X 0.2 = 5.77'	OFFICE/EMPLOYEE AREA	B (ACCESSORY USE)	25	419 X 0.3 = 10.48'	OUTDOOR PE	A-3	408	408 X 0.3 = 10.2'				
OFFICE/EMPLOYEE AREA	B	14	2 (OCCUPANCY LOAD ON GROUND FLOOR < 500)				2 (OCCUPANCY LOAD < 500)				2 (OCCUPANCY LOAD < 500)				
TOTAL				TOTAL				TOTAL							
346				419				408							

TOTAL OCCUPANT LOAD OF THE BUILDING = 1,173

TOTAL NET AREA FOR E (NOT INCLUDING OUTDOOR AREA)
 (NET AREA - AREA THAT NOT INCLUDES CORRIDORS, RESTROOMS AND OCCUPANCY S AREA) 6,654 SQ.FT. + 7,880 SQ. FT. = 14,534 SQ.FT.

TOTAL AREA FOR B OCCUPANCY (TWO FLOORS) 1,198+459=1,657 SQ.FT.

FIRE NOTE:
 452.1.6 CLASS I, II OR III-A FLAMMABLE LIQUIDS SHALL NOT BE PLACED, STORED OR USED IN E OCCUPANCIES, EXCEPT IN APPROVED QUANTITIES AS NECESSARY IN LABORATORIES AND CLASSROOMS AND FOR OPERATION AND MAINTENANCE AS SET FORTH IN THE CALIFORNIA FIRE CODE.

LEGAL DESCRIPTION
 REFER TO LEGAL DESCRIPTION ON A0.1.1

RESTROOM CALCULATIONS

OCCUPANCY GROUP	E OCCUPANCY	A-3 OCCUPANCY (EDUCATIONAL AND ACTIVITY)	B OCCUPANCY
NET AREA	14,534 SQ.FT.	6,123 SQ.FT.	1,657 SF
OCCUPANCY FACTOR	1/50 SF	1/30 SF	1/200 SF
	290	204	8
BOYS	145	102	4
GIRLS	145	102	4
FIXTURE FACTORS	WATER CLOSET 1:50	1:30	1:1-100
URINAL	1:100	1:1-100	1:1-100
LAVATORIES	1:40	1:40	1:1-200
REQUIRED FIXTURES	WATER CLOSET 3	5*	1
URINAL	2	-	1
LAVATORIES	4	4	1
PROVIDED	WATER CLOSET 6	9	2
URINAL	3	-	0
LAVATORIES	6	6	1

* PLUMBING FIXTURES SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 4 OF THE COUNTY OF LOS ANGELES PLUMBING CODE
 * THE TOTAL NUMBER OF WATER CLOSETS FOR FEMALES SHALL BE AT LEAST EQUAL TO THE TOTAL NUMBER OF WATER CLOSETS AND URINALS REQUIRED FOR MALES. THIS REQUIREMENT SHALL NOT APPLY TO RETAIL OR WHOLESALE STORES.
 FOR EACH URINAL ADDED IN EXCESS OF THE MINIMUM REQUIRED, ONE WATER CLOSET MAY BE DEDUCTED. THE NUMBER OF WATER CLOSETS SHALL NOT BE REDUCED TO LESS THAN TWO-THIRDS OF THE MINIMUM REQUIREMENTS.
 REQUIRED DRINKING FOUNTAIN: ONE PER FLOOR
 PROVIDED DRINKING FOUNTAIN: INDOOR: TWO PER FLOOR

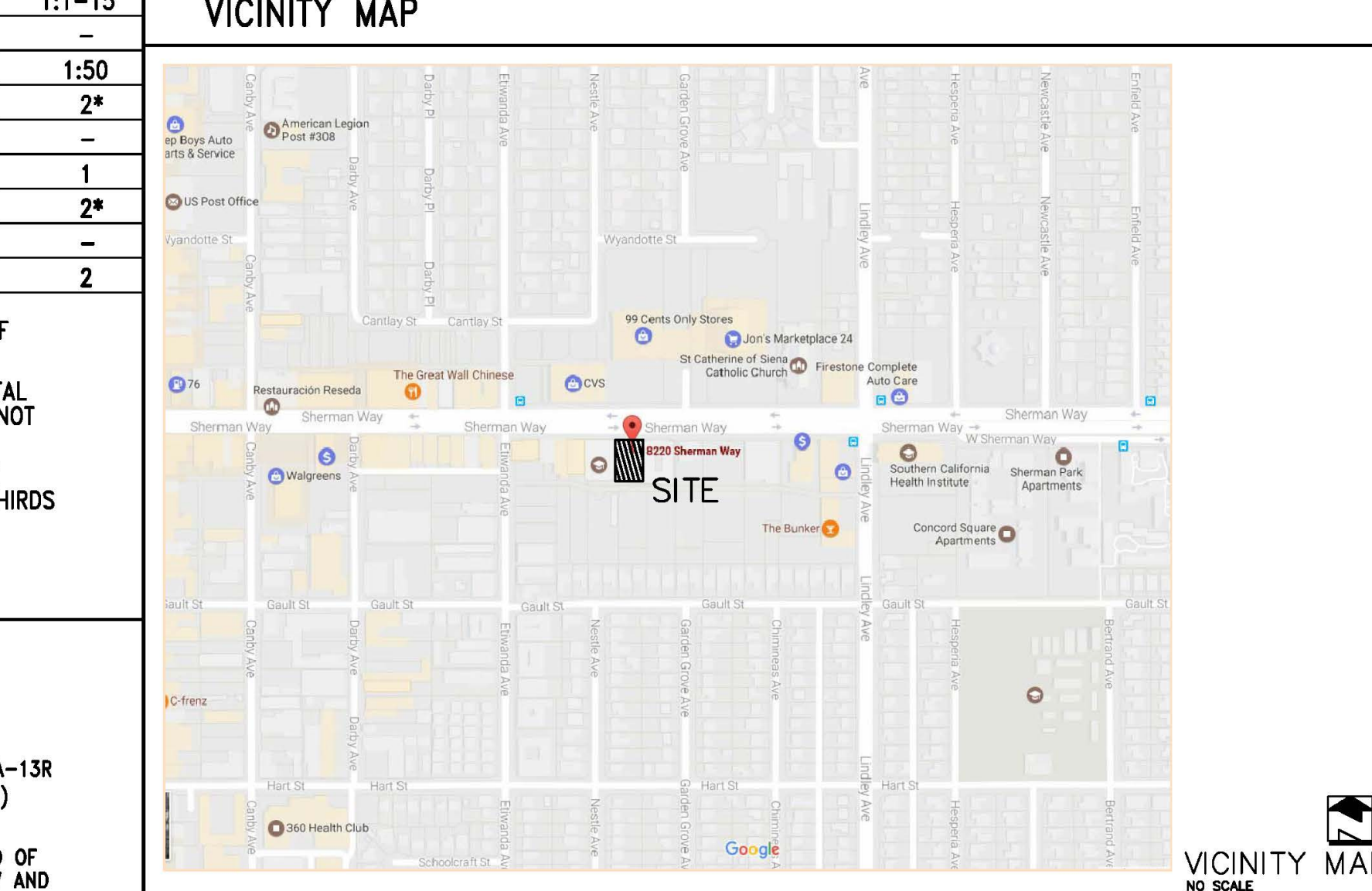
FIRE DEPT.

1. PROVIDE AN APPROVED FIRE ALARM SYSTEM PER TITLE 24, FIRE CODE 907.2.3, 907.2.23 AND PROVIDE OCCUPANT NOTIFICATION IN ACCORDANCE W/SEC. 907.5
2. THIS BUILDING MUST BE EQUIPPED W/AUTOMATIC FIRE EXTINGUISHING SYSTEM, COMPLYING W/NFPA-13/NFPA-13R THE SPRINKLER SYSTEM SHALL BE APPROVED BY PLUMBING DIV. PRIOR TO INSTALLATION. 12.21A17(D) (903.2)
3. THE FIRE SPRINKLER SYSTEM SHALL BE CALCULATED PER PAMPHLET #13.
4. A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED IN GROUP A OCCUPANCIES HAVING AN OCCUPANT LOAD OF 300 OR MORE. BUILDING CODE 907.2.1. SUBMIT PLANS TO THE FIRE ALARM PLAN CHECK UNIT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. FIRE CODE 907.2.1.

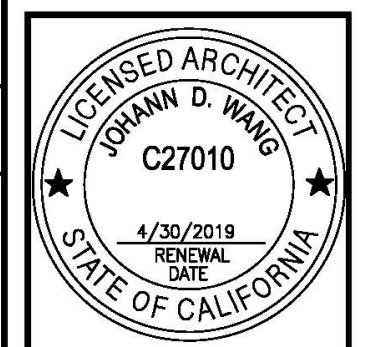
NOTE

ALL SUBCONTRACTORS TO FAMILIARIZE THEMSELVES WITH ENTIRE CONSTRUCTION DOCUMENT SET. WHERE CONFLICTS ARISE THE MOST RESTRICTIVE REQUIREMENT APPLIES. NO SUBSTITUTIONS ALLOWED UNLESS APPROVED BY ARCHITECT AND/OR OWNER OR AS SPECIFICALLY NOTED ON DRAWINGS.
 UNDER SEPARATE PERMIT:
 GRADING WORK, FIRE SPRINKLER SYSTEMS, STRUCTURAL, ELECTRICAL, MECHANICAL AND PLUMBING WORK.

VICINITY MAP

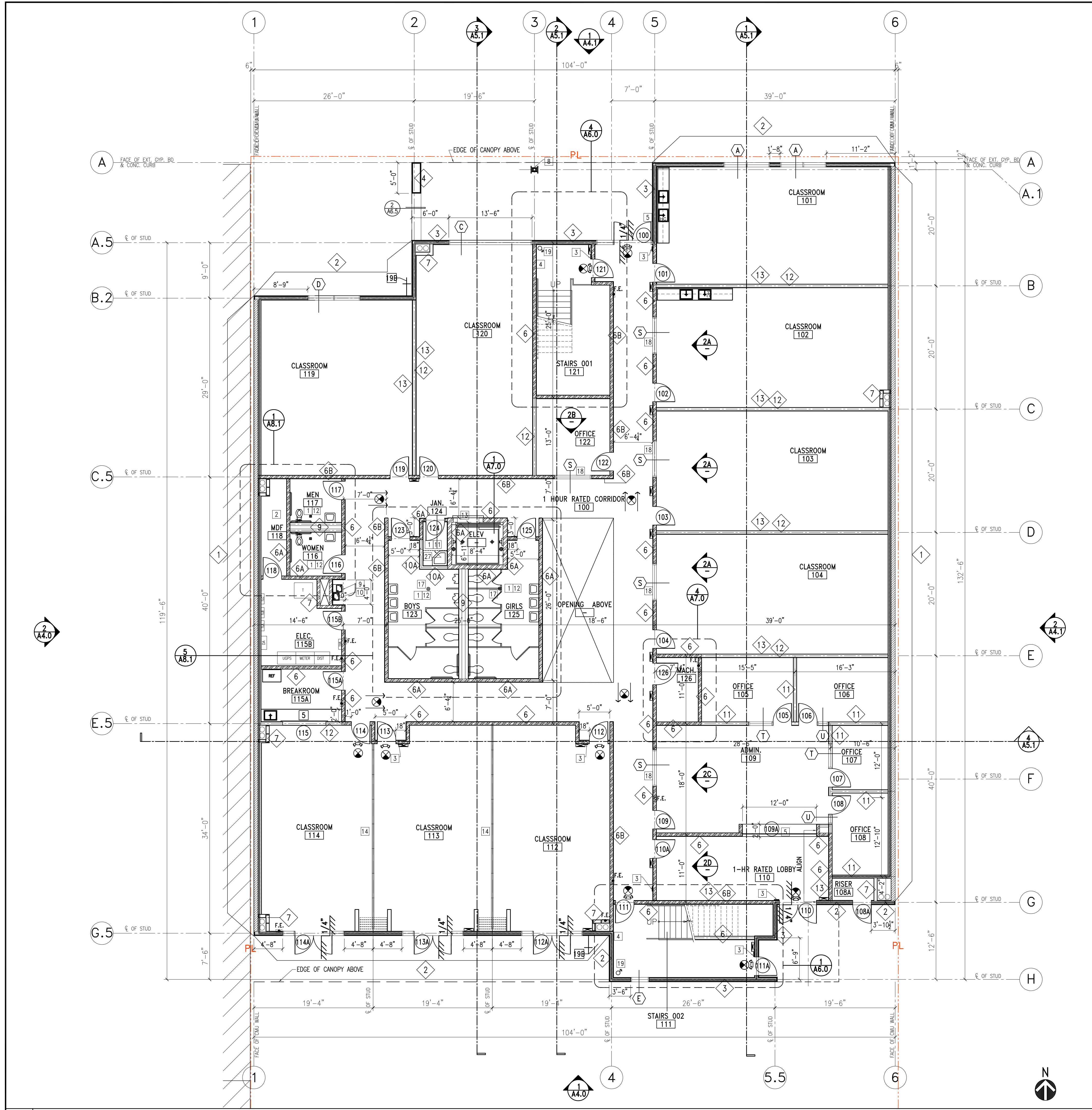


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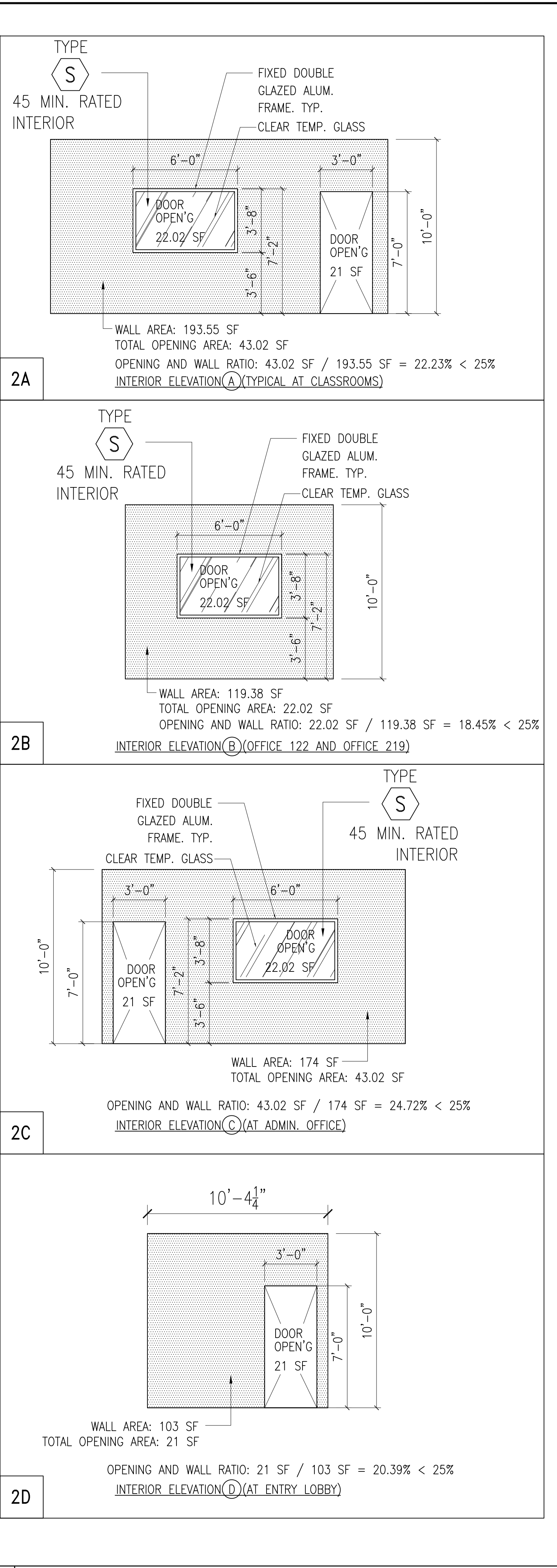
MAGNOLIA SCIENCE ACADEMY	
PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA 91335	
DATE: 12/14/2017	
AS NOTED	AS NOTED
A0.1	

BID SET 03-07-18



1 FIRST FLOOR CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

- THIS BUILDING MUST BE EQUIPPED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM, IN THE LOCATIONS DESCRIBED IN SEC. 903.2.1 THROUGH 903.2.12 (903.2)
 - FIRE SPRINKLERS SHALL BE PROVIDED WITH METAL ESCUTCHEONS THROUGH OUT.
 - SMOKE/FIRE DAMPERS SHALL BE INSTALLED IN CORRIDORS, FIRE BARRIERS AND FIRE PARTITIONS. SEE MECHANICAL PLANS FOR LOCATION OF SMOKE/FIRE DAMPERS.
 - PENETRATIONS OF FIRE RESISTANCE-RATED HORIZONTAL ASSEMBLIES SHALL COMPLY WITH SECTION 713.4 THROUGH PENETRATIONS SHALL COMPLY WITH SECTION 713.4.1.1 OR 713.4.1.2, OR AS NOTED BELOW:
 - STEEL, FERROUS OR COPPER CONDUITS MAY PENETRATE A SINGLE FIRE-RESISTANCE-RATED FLOOR ASSEMBLY WHEN THE ANNULAR SPACE IS PROTECTED WITH MATERIAL THAT MEETS ASTM E 119 OR UL 263
 - PENETRATIONS SHALL BE FIRE-STOPPED BY A SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479. THE SYSTEM SHALL HAVE AN F RATING AND T RATING OF NOT LESS THAN 1-HR, BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED.
 - PENETRATIONS SHALL BE FIRE-STOPPED BY A SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479. THE SYSTEM SHALL HAVE AN F RATING AND T RATING OF NOT LESS THAN 1-HR, BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED.
 - MEMBRANE PENETRATIONS BY LISTED ELECTRICAL OUTLET BOXES ARE PERMITTED PROVIDED SUCH BOXES HAVE BEEN TESTED FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES, AND THE SPACE BETWEEN THE CEILING MEMBRANE AND THE BOX DOES NOT EXCEED 1/8-IN. UNLESS LISTED OTHERWISE.
 - PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS SHALL COMPLY WITH SECTION 713.3, THROUGH PENETRATIONS SHALL COMPLY WITH SECTION 713.3.1.1 OR 713.3.1.2, OR AS NOTED BELOW:
 - STEEL, FERROUS OR COPPER PIPES MAY PENETRATE FIRE-RESISTANCE-RATED WALLS, PROVIDED THE OPENING IS PROTECTED AS FOLLOWS:
 - ITEM PENETRATING CONCRETE OR MASONRY WALLS IS A MAXIMUM 6-IN NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 1450. IN². CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE IT IS INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE-RATING; OR
 - WHEN THE ANNULAR SPACE IS PROTECTED WITH MATERIAL THAT MEETS ASTM E 119 OR UL 263.
 - PENETRATIONS SHALL BE FIRE-STOPPED BY A SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, AND SHALL HAVE AN F RATING OF NOTE LESS THAN THE REQUIRED FIRE-RESISTANCE-RATING OF THE WALL PENETRATED.
 - MEMBRANE PENETRATIONS OF MAXIMUM TWO-HOUR FIRE-RESISTANCE-RATED WALLS BY LISTED ELECTRICAL BOXES ARE PERMITTED, PROVIDED THAT EACH DOES NOT EXCEED 1650. IN² IN AREA AND THE TOTAL AREA OF SUCH OPENINGS DOES NOT EXCEED 100 SQ. IN. FOR ANY 100 SQ. FT. OF WALL AREA, AND THE SPACE BETWEEN THE WALL MEMBRANE AND THE BOX DOES NOT EXCEED 1/8-IN. ADDITIONALLY, OUTLET BOXES ON OPPOSITE SIDES OF THE WALL SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24-IN.
 - MEMBRANE PENETRATIONS BY LISTED ELECTRICAL BOXES OF ANY MATERIAL ARE PERMITTED PROVIDED SUCH BOXES HAVE BEEN TESTED FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES, AND THE SPACE BETWEEN THE WALL MEMBRANE AND THE BOX DOES NOT EXCEED 1/8-IN. UNLESS LISTED OTHERWISE, ADDITIONALLY, OUTLET BOXES ON OPPOSITE SIDES OF THE WALL SHALL BE SEPARATED BY THE HORIZONTAL DISTANCE SPECIFIED IN THE LISTING OF THE BOXES.
 - EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN OR EXIT ACCESS DOORWAY. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.
 - THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VALVES, PUMPS, VALVES, METERS, APPURTENANCES, ETC) OR TO THE LOCATION OF THE HOOP-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES—WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.
 - AN APPROVED SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWNSTREAM SIDE OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING. (PER ORDINANCE 170.158) (INCLUDES COMMERCIAL ADDITIONS AND T WORK OVER \$10,000.) SEPARATE FILING PERMIT IS REQUIRED.
 - PROVIDE ULTRA-LOW FLUSH WATER CLOSETS FOR ALL NEW CONSTRUCTION. EXISTING SHOWER HEADS AND TOILETS MUST BE ADAPTED FOR LOW WATER CONSUMPTION.
 - FIRE BLOCKING MUST BE PROVIDED IN ACCORDANCE W/SEC. 718.2 AT THE FOLLOWING LOCATIONS:
 - IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS.
 - IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT 10 FOOT INTERVALS ALONG THE LENGTH OF THE WALL.
 - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILING AND COVE CEILING.
 - IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS IF THE WALL UNDER THE STAIRS IS UNFINISHED.
 - IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS, WITH NONCOMBUSTIBLE MATERIALS.
- NOTE:
1. ALL STUD WALL INTERIOR SIDE ONLY, SHALL BE PLAINED OR SHIMMED AS REQUIRED PRIOR TO DRYWALL INSTALLATION TO ASSURE A LEVEL SURFACE WITHOUT DIPS AND BOWS. DRYWALL SUBCONTRACTOR SHALL INSPECT AND APPROVE FRAMED PARTITIONS PRIOR TO INSTALLING DRYWALL WITH THE UNDERSTANDING THAT A LEVEL 5 FINISH IS REQUIRED. ALL DIPS AND BOWS OCCURRING AFTER DRYWALL IS INSTALLED, WILL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.
2. MAXIMUM CROSS SLOPE FOR WALKWAYS, HC DROP OFF AND RAMPS NOT EXCEED MORE THAN 2%.



2 INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"

- PROVIDE APPROVED PANIC HARDWARE ON REQUIRED EXIT DOORS. TITLE 24, SECTION 1008.1.1.0.
- THE INSPECTION, HYDROSTATIC TEST AND FLUSHING OF THE UNDERGROUND FIRE PROTECTION PIPING SHALL BE WITNESSED BY AN AUTHORIZED FIRE DEPARTMENT REPRESENTATIVE. NO UNDERGROUND PIPING OR THRUST BLOCKS SHALL BE COVERED BY EARTH OR HIDDEN FROM VIEW UNTIL THE FIRE DEPARTMENT REPRESENTATIVE HAS BEEN NOTIFIED AND GIVEN NOT LESS THAN 48 HOURS IN WHICH TO INSPECT SUCH INSTALLATIONS. FIRE CODE 901.5, COUNTY OF LOS ANGELES FIRE DEPARTMENT REGULATION 7.
- ELEVATORS, ESCALATORS AND MOVING WALKS SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN BUILDING CODE CHAPTER 30.
- WALLS AND SOFFITS WITHIN ENCLOSED USABLE SPACES UNDER ENCLOSED AND UNENCLOSED STAIRWAYS SHALL BE PROTECTED BY 1-HOUR FIRE-RESISTANCE-RATED CONSTRUCTION OF THE FIRE-RESISTANCE RATING OF THE STAIRWAY ENCLOSURE, WHICHEVER IS GREATER. BUILDING CODE 1009.6.3.
- PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN LOCATIONS AS REQUIRED BY FIRE CODE 906 AND FIRE DEPT FIELD INSPECTOR.
- PROVIDE PORTABLE FIRE EXTINGUISHER W/A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 7'5" TO ALL PORTION OF THE BUILDING ON EACH FLOOR, ALSO DURING CONSTRUCTION (LASC 57.140)
- PROVIDE PORTABLE FIRE EXTINGUISHER W/A RATING NOT LESS THAN 10BC FOR KITCHEN, ELEC, MECHANICAL ROOM.
- PROVIDE PORTABLE FIRE EXTINGUISHER W/A RATING NOT LESS THAN 2-B, LOCATED NOT LESS THAN 10', NOR MORE THAN 30' FROM ANY FLAMMABLE LIQUID STORAGE AREA OUTSIDE OF A HAZARDOUS MATERIAL ROOM, OR ADJACENT TO SPRAY BOOTH.
- PROVIDE AN APPROVED FIRE ALARM SYSTEM PER TITLE 24, FIRE CODE 907.2.3, 907.2.23 AND PROVIDE OCCUPANT NOTIFICATION IN ACCORDANCE W/SEC. 907.5
- THIS BUILDING MUST BE EQUIPPED W/AUTOMATIC FIRE EXTINGUISHING SYSTEM, COMPLYING W/NFPA-13/NFPA-15R THE SPRINKLER SYSTEM SHALL BE APPROVED BY PLUMBING DIV. PRIOR TO INSTALLATION. 12.21A(17)(D) (903.2)
- THE FIRE SPRINKLER SYSTEM SHALL BE CALCULATED PER PAMPHLET #13.
- A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED IN GROUP A OCCUPANCIES HAVING AN OCCUPANT LOAD OF 500 OR MORE. BUILDING CODE 907.2.1.1. SUBMIT PLANS TO THE FIRE ALARM PLAN CHECK UNIT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. FIRE CODE 907.2.1.
- MEANS OF EGRESS ILLUMINATION SHALL BE PROVIDED PER SEC. 1008. IN ADDITION TO OTHER CODE REQUIREMENT.
- EXTERIOR ENTRIES AND/OR OPENINGS SUBJECT TO FOOT TRAFFIC OR WIND-DRIVEN RAIN TO PREVENT WATER INTRUSION IN BUILDINGS. (CAL GREEN 5.407.2.2)
- COMPOSITE WOOD PRODUCTS (HARDWOOD PLYWOOD, PARTICLE BOARD, AND MDF COMPOSITE WOOD) INSTALLED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET OR EXCEED THE STANDARDS OUTLINED IN TABLE 5.504.4.5. (CAL GREEN 5.504.4.5)
- THIS BUILDING IS EQUIPPED WITH WATER-CONSERVING FIXTURES MEETING THE CRITERIA ESTABLISHED IN SECTION CAL GREEN 5.503.2 OR 5.503.3. SEE PLUMBING PLANS FOR MORE INFORMATION.
- PROVIDE DOCUMENTATION TO JUSTIFY THAT MATERIALS USED HAVE A POST-CONSUMER OR PRE-CONSUMER RECYCLED CONTENT VALUE (RCV) OF AT LEAST 10% OF THE TOTAL VALUE, BASED ON ESTIMATED COST OF MATERIALS ON THE PROJECT. (AS.504.4)
- PROVIDE THERMAL INSULATION THAT COMPLIES WITH THE VOC EMISSION LIMITS DEFINED IN THE CHPS LOW-EMITTING MATERIALS LIST. (AS.504.4.5)
- THE USE AND INSTALLATION OF WATER SOFTENERS THAT DISCHARGE TO THE COMMUNITY SEWER SYSTEM SHALL BE LIMITED OR PROHIBITED BY LOCAL AGENCIES IF CERTAIN CONDITIONS ARE MET. (CA GREEN AS.503.3.5)
- COMPARED TO OTHER PRODUCTS IN A GIVEN PRODUCT CATEGORY, SELECT BUILDING MATERIALS OR PRODUCTS PERMANENT INSTALLATION ON THE PROJECT THAT HAVE BEEN HARVESTED OR MANUFACTURED IN CALIFORNIA OR WITHIN 500 MILES OF THE PROJECT SITE.
 - FOR THOSE MATERIALS LOCALLY MANUFACTURED, SELECT MATERIALS MANUFACTURED USING LOW EMBODIED ENERGY OR THOSE THAT WILL RESULT IN NET ENERGY SAVINGS OVER THEIR USEFUL LIFE.
 - REGIONAL MATERIALS SHALL MAKE UP AT LEAST 10 PERCENT, BASED ON COST, OF TOTAL MATERIALS VALUE.
 - IF REGIONAL MATERIAL MAKE UP ONLY PART OF A PRODUCT, THEIR VALUES ARE CALCULATED AS PERCENTAGES BASED ON WEIGHT.
 - PROVIDE DOCUMENTATION OF THE ORIGIN, NET PROJECTED ENERGY SAVINGS AND VALUE OF REGIONAL MATERIALS. (CA GREEN AS.405.1)
- REQUIRE APPROVAL FROM THE MECHANICAL SECTION FOR COMPLIANCE WITH SECTION 5.503 – INDOOR WATER USE.
- OUTER WALL AND FLOOR-CEILING ASSEMBLIES SEPARATING ADJACENT TENANT SPACES AND TENANT AND PUBLIC PLACES SHALL HAVE AN STC OF AT LEAST 40. (5.507.4.3)
- PROVIDE APPROVAL FROM MECHANICAL SECTION FOR A 30% REDUCTION IN INDOOR POTABLE WATER USAGE. (AS.503.2.3.1)

- SYMBOLS LEGEND**
- FINISH FLOOR ELEVATION CHANGE
 - SEMI-RECESSED FIRE EXTINGUISHERS SEE SPECIFICATIONS AND DETAIL 7/05.0
 - DOOR NUMBER DOOR KEY SEE DOOR SCHEDULE A10.0
 - WINDOW KEY SEE WINDOW SCHEDULE A10.1 WINDOW TYPE

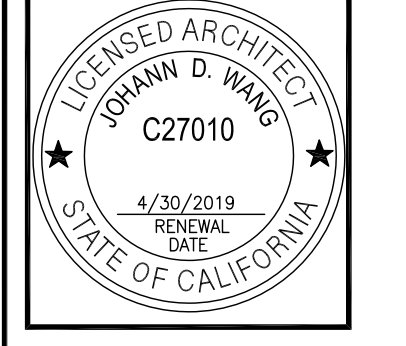
- WALL LEGEND**
- EXTERIOR WALLS 2 HOUR FIRE RATED**
PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
- FURRING WALL CMU WALL-5/8" TYPE "X" GYP ONE SIDE, EXTERIOR PLASTER TROWL APPLIED. SEE DETAIL 1 AND STRUCT'L DETAIL.
 - 2-HR EXTERIOR STUCCO WALL WITH R-19 INSULATION, EXTERIOR PLYWOOD, FIBERGLASS MAT GYP SHEATHING, EXTERIOR PLASTER TROWEL APPLIED, STRUCTURAL PLYWOOD, 2-LAYER GYP. BD INTERIOR SIDE; SEE DETAIL 2 AND STRUCT'L DETAIL. PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
 - 2-HR EXTERIOR STUCCO WALL WITH R-19 INSULATION, EXTERIOR PLYWOOD, FIBERGLASS MAT GYP SHEATHING, EXTERIOR PLASTER TROWEL APPLIED, 2-LAYER GYP. BD INTERIOR SIDE; SEE DETAIL 2 AND STRUCT'L DETAIL. PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
 - SAME AS 3 EXCEPT WITH CERAMIC TILE INTERIOR SIDE. PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
 - 2-HR EXTERIOR STUCCO WALL WITH NORTH CANOPY, SEE DETAIL 3 AND STRUCT'L DETAIL. PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
- INTERIOR WALLS 1 HOUR FIRE RATED PARTITIONS**
WALLS IN CORRIDORS ARE FIRE BARRIER/ ATRIUM SEPARATION WALLS
- 1-HR FIRE-RATED BARRIER/DEMISING SHEAR WALL WITH PLYWOOD ONE (CORRIDOR) SIDE. SEE DETAIL 6 AND STRUCT'L DETAIL.
 - 1-HR FIRE-RATED BARRIER AT CORRIDOR WITH STRUCT. PLYWOOD AND 5/8" TYPE "X" GYP. BD. ONE SIDE (CORRIDOR) AND 5/8" WATER RESISTANT GYP. BD. ON RESTROOM/JANITOR SIDE, SEE DETAIL 6A AND STRUCT'L DETAIL.
 - 1-HR FIRE-RATED BARRIER/DEMISING SHEAR WALL WITH PLYWOOD BOTH SIDES. SEE DETAIL 6B AND STRUCT'L DETAIL.
 - 1-HR FIRE-RATED SHAT WALL. SEE DETAIL 7 AND STRUCT'L DETAIL.
- INTERIOR WALLS NON-RATED PARTITIONS**
- WOOD STUD DOUBLE PLUMBING WALL 5/8" TYPE X WATER RESISTANT GREEN GYP BD. EXPOSED SIDE, WITH SOUND INSULATION, SEE DETAIL 9 AND STRUCT'L DETAIL.
 - STUD WALL AT WET AREA WITH 5/8" WATER RESISTANT GYP. BD. ON EXPOSED SIDE ONLY. SEE DET. 10.
 - STUD WALL AT WET AREA WOOD STUD WALL FULL HEIGHT AND SOUND INSULATION WITH 5/8" WATER RESISTANT GYP. BD. BOTH SIDES. SEE DETAIL 10A.
 - WOOD STUD WALL FULL HEIGHT WITH 5/8" GYP. BOARD BOTH SIDES WITH SOUND INSULATION. SEE DETAIL 11.
 - DEMISING SHEAR WALL, NON-RATED WITH PLYWOOD ON ONE OR BOTH SIDES. SEE STRUCT'L AND 12.
 - 12' LONG 6X6 BLOCKING REQUIRED AT TV TRACKING- HEIGHT TBD.

CONSTRUCTION PLAN NOTES

- PROVIDE PRESSURE TREATED FLOOR SILL PLATE ON ALL BATHROOM WALLS, JANITOR'S CLOSET WALLS AND EXTERIOR PERIMETER WALLS ON GROUND FLOOR.
- PROVIDE 3/4" FIRE TREATED PLYWOOD ON ALL WALLS IN MDF ROOM.
- 1011.4 RAISED CHARACTER AND BRAILLE EXIT SIGNS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - EACH GRADE-LEVEL EXTERIOR EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD, "EXIT"
 - EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE:
 - "EXIT STAIR DOWN"
 - "EXIT RAMP DOWN"
 - "EXIT STAIR UP"
 - "EXIT RAMP UP"
 - EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE."
 - EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE."
 - EACH EXIT DOOR THROUGH A HORIZONTAL EXIT THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS, "TO EXIT" RAISED CHARACTER AND BRAILLE EXIT SIGNS SHALL COMPLY WITH SECTION 1117B.5.1 ITEM 1 SECTIONS 118-703.1, 118-703.2, 118-703.3 AND 118-703.5.
- PROVIDE TACTILE STAIR LEVEL IDENTIFICATION SIGN THAT COMPLIES WITH 1022.9, AT EACH FLOOR LEVEL LANDING.
- PROVIDE FIRE RATED MOTORIZED ROLL-UP DOOR W/ FUSIBLE LINK. SEE DOOR SCHEDULE.
- ROOF DRAINS. FOR ROOF DRAINS/OVERFLOW DRAINS EXITING THE BUILDING, SEE DETAIL #5/05.0.
- PROPOSED LOCATION FOR FIRE SPRINKLER RISER/VALVE. PROVIDE ACCESS PANEL AS REQUIRED.
- STEEL COLUMN SEE 1/A6.5
- HYDRO-STATION DRINKING FOUNTAIN, SEE PLUMBING PLAN FOR ADDITIONAL INFORMATION
- DRINKING FOUNTAIN ALCOVE, ALCOVE CEILING HEIGHT @ 7'-0" AFF. SEE DTL 5/A8.0. INSTALL CERAMIC TILES 4" x 4" AT ALL WALLS OF ALCOVE.
- PROVIDE WATER RESISTANT GYP ON JAN. CLOSET SIDE.
- ALL RESTROOM FLOOR TO HAVE A 1/8" SLOPE TO FLOOR DRAIN. SEE PLUMBING ENG. DWGS. FOR FLOOR DRAIN LOCATIONS.
- INSTALL SMOKE DRAUG. SEE DETAIL 9/05.0.
- FOLDING WALL: HUFOR CERTICAL CONTINUOUSLY-HINGED PANEL. SEE D7.0
- PROVIDE DOOR BUZZER AND COMMUNICATION DEVICE WITH CONDUIT TO MAIN GATE ENTRANCE
- SHAFT TO HAVE A 1-HR FIRE RATING. INSTALL (2) LAYERS OF 5/8" TYPE "X" GYP. BD. TO EXPOSED SIDE OF FRAMING. INSTALL TYPE "X" WATER RESISTANT GYP. BD. AT RESTROOM/JANITOR CLOSET SIDE. PROVIDE FIRE-RATED DAMPERS WHERE DUCTS PENETRATE THE FIRE-RATED WALLS. USE 1" TYPE S DRYWALL SCREWS 8" O.C. TO VERTICAL EDGES. SEE GA FILE NO. WP 1200.
- PROVIDE FLOOR DRAIN, SEE PLUMBING PLAN. TILED FLOOR 1% SLOPE TO DRAIN
- 45 MIN. GLAZING/DOOR, NOT EXCEED 25% OF THE COMMON WALL (716.6.7.2) SEE 2/- FOR INTERIOR ELEVATIONS.
- INSTALL CLASS 1 STANDPIPE
- CANOPY
- INSTALL A HOSE BIB AT THIS LOCATION. REFER TO PLUMBING ENGINEERING PLANS FOR FURTHER INFO.
- AS.1
- WATER HEATER SHELVE TO BE MOUNTED 6'-8" MIN. A.F.F. OVER JANITOR'S FLOOR SINK FOR REQUIRED MIN. HEAD CLEARANCE.

REV	DESCRIPTION	DATE
1	PLAN CHECK #1	6/14/2017
2	PD PLAN CHECK	10/31/2017
3	PD PLAN CHECK	12/14/2017

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1	PLAN CHECK #1	6/14/2017
2	PD PLAN CHECK	10/31/2017
3	PD PLAN CHECK	12/14/2017



PROJECT	PROJECT ADDRESS
MAGNOLIA SCIENCE ACADEMY	18220 SHERMAN WAY, RESEDA, CA91335

DATE	BY	DATE	BY
12/14/2017	AS NOTED		



FIRST REFLECTED CEILING PLAN

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

- GENERAL NOTES**
- REFER TO ENGINEERED DWGS FOR CIRCUITING & EXACT FIXTURE OUTLET & SPECS. ALL LIGHT SWITCHES TO BE CIRCUITED & INSTALLED TO COMPLY WITH LOCAL CODES, A.D.A. TITLE 24 & APPLICABLE STATE ENERGY REQ'TS. SPECIFICATIONS & ILLUSTRATIONS OF MECHANICAL & ELECTRICAL DEVICES SPECIFIED BY THE MECHANICAL AND ELECTRICAL ENGINEERS SHALL BE SUBMITTED TO FRANCO & ASSOCIATES FOR APPROVAL STAMP PRIOR TO PURCHASE.
 - MECHANICAL & ELECTRICAL ENGINEERED DWGS ARE NOT INTENDED TO SHOW EXACT LOCATIONS OF FIXTURES, OUTLETS, OR EQUIPMENT; REFER TO ARCHITECTURAL DWGS.
 - LIGHT FIXTURES SHALL BE LOCATED EXACTLY AS NOTED. CONTRACTOR SHALL FIELD CHECK ELECTRICIAN'S LAYOUT OF LIGHT FIXTURES PRIOR TO FINAL CONNECTIONS.
 - ALL DUCTWORK, DIFFUSERS, EXHAUST FANS & OTHER MECHANICAL DEVICES AND EQUIPMENT ABOVE OR PENETRATING THE CLG. SHALL BE LOCATED IN COORDINATION WITH THE LIGHT FIXTURE LAYOUT. CONTRACTOR SHALL INCLUDE ACCESS PANELS IN BID. MECH. & ELEC'T. SUBS SHALL ESTIMATE QUANTITY REQ'D BASED ON DRYWALL CLG. LOCATIONS ON PLANS. ALL ACCESS PANELS SHALL BE FRAMELESS W/ CONCEALED HINGES.
 - CONTRACTOR'S SUPER SHALL SCHEDULE A JOB SITE MEETING WITH BOTH BLDG. & FIRE INSPECTORS FOR PRELIMINARY APPROVAL OF ALL MECH. & ELEC'T. PANELS, LIFE SAFETY SPEAKER, STROBE & SMOKE DETECTOR LOCATIONS TWO (2) DAYS PRIOR TO ROUGH-OUT INSTALL. ADVISE ARCHITECT OF ANY ADDITIONS OR RELOCATIONS REQUIRED BY INSPECTORS PRIOR TO PROCEEDING WITH WORK.
 - WHERE CEILINGS ARE SPECIFIED TO BE FIRE-RATED CONSTRUCTION, ALL RECESSED LIGHT FIXTURES & SPEAKERS SHALL BE BOXED OUT ABOVE THE CEILING WITH FIRE-RATED ENCLOSURE EQUAL TO THE RATING OF THE CEILING.
 - PROVIDE SEISMIC CEILING GRID BRACING AS REQUIRED BY LOCAL CODES.
 - SWITCHES & MOTION SENSORS (IF ANY) SHALL BE INSTALLED AT 42" A.F.F. TO CENTER AND AT 6" OFF DOOR JAMBS OR SIDELIGHTS, U.O.A.
 - ANY TIME THE BUILDING OR A PORTION OF THE BUILDING IS OCCUPIED, THE MEANS OF EGRESS SERVING THE OCCUPIED PORTION SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1-FOOT-CANDLE (11 LUX) AT THE WALKING SURFACE LEVEL.
 - THE POWER SUPPLY FOR THE MEANS OF EGRESS ILLUMINATION SHALL BE PROVIDED BY THE PREMISES ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, ILLUMINATION SHALL BE AUTOMATICALLY PROVIDED FROM AN EMERGENCY SYSTEM FOR THE FOLLOWING AREAS:
 - AISELES AND UNENCLOSED EGRESS STAIRWAYS IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE MEANS OF EGRESS.
 - CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
 - EXTERIOR EGRESS COMPONENTS AT OTHER THAN THE LEVEL OF EXIT DISCHARGE UNTIL EXIT DISCHARGE IS ACCOMPLISHED FOR BUILDINGS TO HAVE TWO OR MORE EXITS.
 - INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1027.1, IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
 - EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1008.1.6, FOR EXIT DISCHARGE DOORWAYS IN BUILDING REQUIRED TO HAVE TWO OR MORE EXITS.
 - EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED. WHEN THE FACE OF AN EXIT SIGN IS ILLUMINATED FROM AN EXTERNAL SOURCE, IT SHALL HAVE AN INTENSITY OF NOT LESS THAN 5-FOOT CANDLE FROM EITHER OF THE TWO ELECTRIC LAMPS. INTERNALLY ILLUMINATED SIGNS SHALL PROVIDE EQUIVALENT LUMINANCE AND BE LISTED FOR THE PURPOSE.
 - PLENUM RATED WIRING TO BE PROVIDED. SEE ELECTRICAL PLANS.
 - PROVIDE EXIT SIGNS AND DIRECTIONAL EXIT SIGNS WITH MINIMUM 6" HIGH BY 3/4" STROKE BLOCK LETTER ON A CONTRASTING BACKGROUND. SPACING BETWEEN SIGNS SHALL NOT EXCEED 100 FEET.
 - UNDERSIDE OF EXIT SIGNS MUST BE 7'-0" CLEAR.
 - THE EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM PROVIDED FROM STORAGE BATTERIES UNIT EQUIPMENT OR AN ON-SITE GENERATOR SET, AND THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE ELECTRICAL CODE.
 - EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1-FOOT-CANDLE (11 LUX) AN A MINIMUM AT ANY POINT OF 0.1-FOOT-CANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED.
 - INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SECTION 2702.
 - EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. (1011.3)
 - EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. SEE 1008.1.9.3 FOR EXCEPTIONS.
 - DOOR HANDLES LOCK AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT A MIN. 34" AND MAX. 48" ABOVE THE FINISHED FLOOR.
 - EXIT DOORS SHALL REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED.
 - ALL EGRESS DOOR OPERATION SHALL ALSO COMPLY WITH SECTION 1008.1.9 - 1008.1.9.8
 - THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
 - EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1-FOOT-CANDLE (1 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOT-CANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOT-CANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOT-CANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED.
 - EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED
 - THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702.
 - ALL REQUIRED EXITS SHALL BE MAINTAINED UNTIL ARRIVAL AT GRADE OR THE PUBLIC WAY. (1021.1)
 - THE EXIT PASSAGEWAY MAY ONLY BE USED AS A MEANS OF EGRESS PROVIDE A 1-HOUR FIRE-RESISTANCE RATING OR OF THE SAME RATING REQUIRED FOR ANY CONNECTING EXIT ENCLOSURE, WALLS, FLOORS AND CEILINGS SHALL BE CONSTRUCTED AS FIRE BARRIERS IN ACCORDANCE WITH SECTION 707 (1023.1 & 1023.3)
 - EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDLES (54 LUX).
 - INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SECTION 2702.
 - THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE THE FOLLOWING AREAS (1008.3)
 - AISELES, CORRIDORS AND EXIT ACCESS STAIRWAYS AND RAMP IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE MEANS OF EGRESS. (1008.3.1)
 - INTERIOR EXIT ACCESS STAIRWAYS AND RAMP, INTERIOR AND EXTERIOR STAIRWAYS AND RAMP, EXIT PASSAGEWAYS, AND VESTIBULES AND AREA ON THE LEVEL OF EXIT DISCHARGE USED FOR EXIT DISCHARGE IN ACCORDANCE WITH 1028.1 IN BUILDINGS THAT REQUIRE TWO OR MORE MEANS OF EGRESS. (1008.3.2)
 - ELECTRICAL EQUIPMENT ROOMS, FIRE COMMAND CENTERS, FIRE PUMP ROOMS, GENERATOR ROOMS AND PUBLIC RESTROOMS LARGER THAN 300 SQUARE FEET. (1008.3.3)
 - THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702. (1008.3.4)
 - EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1-FOOT-CANDLE (1 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOT-CANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOT-CANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOT-CANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED.
 - EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED

- LEGEND**
- NEW 2'x4' GRID SEE DETAILS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
 - NEW GYP. BD. SOFFIT OR CEILING REFER TO PLAN FOR CEILING HEIGHTS. SEE DET. 6.
 - FINISH CEILING HEIGHT EX. EXISTING PLASTER CLG. (VIF.)
 - EXHAUST DUCT, REFER TO MECHANICAL DWGS.
 - RETURN DUCT, REFER TO MECHANICAL DWGS.
 - SUPPLY DUCT, REFER TO MECHANICAL DWGS.

- FIXTURE SYMBOLS**
- ISOLIT ELT SERIES CLEAR W/ WHITE TRIM & GREEN LETTERS EXIT LIGHT PER ELEC. PLANS COMPLIANCE WITH BLDG. CODE SEC. 1003.2.8.1. SURFACE MTD.; (L) SELF-ILLUMINATED LOW LEVEL EXIT SIGN PROVIDED CONJUNCTION WITH EXIT SIGNAGE PACKAGE (WHERE SHOWN)
 - INTERNALLY ILLUMINATED FLOOR LEVEL EXIT SIGN PROVIDED IN ALL INTERIOR CORRIDORS (1011.6)
 - 2'x4' RECESSED LED LIGHT FIXTURE; BY COOPER LIGHTING EATON 24AC-LD4-44-UNV-L840
 - 13'x4' SURFACE MOUNTED LED LIGHT FIXTURE; BY LAMAR LIGHTING VGAL SERIES- 48-L-40
 - 6-INCH RECESSED LED FIXTURE; BY COOPER LIGHTING EATON HALO COMMERCIAL- PD6-30-D010-PDM6A-835-61V-C
 - 8'x4' SURFACE MOUNTED LED LIGHT FIXTURE; BY COOPER LIGHTING EATON 4-LED4-40SL-F-UNV-L835-CD-1-U
 - 4'x8' SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT SEEM 4 LED: FSM4LS-FL-625LF-1C-UNV-LD1-SM-WH-8'
 - 4'x4' SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT SEEM 4 LED: FSM4LS-FL-625LF-1C-UNV-LD1-SM-WH-4'
 - 2'- SURFACE MOUNTED LED LIGHT FIXTURE; BY FORUM SAD-34-50-SAT-S-2-120V-WH
 - SURFACE MOUNTED LED LIGHT FIXTURE; BY FORUM SAD-34-50-SAT-S-4-120V-WH
 - 7'x4' WALL MOUNT LED LIGHT FIXTURE; BY FOCAL POINT VERVE IV LED- FV4LW-FL-625LF-1C-UNV-LD1-WM-WH-4'

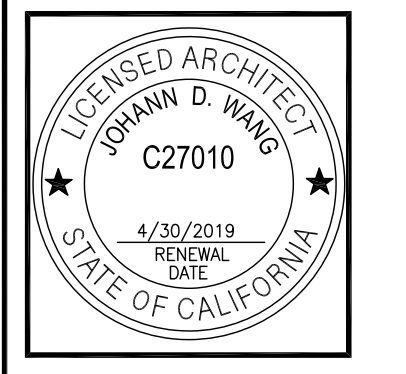
- REFLECTED CEILING PLAN NOTES**
- (2) LAYERS OF 5/8" GYP. BD. APPLIED TO UNDERSIDE OF FRAMING. 1 HOUR FIRE RATING REF. CA FILE NO. FC 5515 AT 1ST FLOOR AND FC 5407 AT ROOF. PAINT EXPOSED GYP. BD. FACE WHICH IS ATTACHED TO THE UNDERSIDE OF FRAMING ABOVE. SEE SHEET "A1.5" FOR PAINT COLOR.
 - DRYWALL SOFFIT AT +8'-0" AFF. WITH RECESSED ROLL-DOWN DOOR. SEE DETAIL (D5.0)
 - GYP. CLG.
 - STUCCO CANOPY SOFFIT
 - METAL PANEL, SEE SECTION 1/AS.4
 - DRINKING FOUNTAIN ALCOVE. ALCOVE TO HAVE A SUSPENDED GYP. BD. CEILING AT 7'-0" AFF. SEE DETAIL (S.8.0)
 - EXPOSED, NO CEILING, TWO LAYERS OF GYP BD. UNDER STRUCTURE

- FIRE DEPARTMENT GENERAL NOTES**
- THE MEANS OF EGRESS, AND EXIT DISCHARGE, SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED WITH A LIGHT INTENSITY OF NOT LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE LEVEL. BUILDING CODE 1008.2.
 - EXITS, EXIT ACCESS DOORS AND PATHS OF EGRESS TRAVEL THAT IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS SHALL BE MARKED BY AN APPROVED EXIT SIGN THAT IS READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED. BUILDING CODE 1011. NOTE: ADDITIONAL EXIT SIGNS MAY BE REQUIRED AT TIME OF FIELD INSPECTION.
 - PROVIDE LOW-LEVEL EXIT SIGNS PER TITLE 24, 1011.6.
 - EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT. BUILDING CODE 1004.5. FIRE CODE 1004.5.
 - WHERE EXIT SIGNS ARE REQUIRED, ADDITIONAL APPROVED FLOOR-LEVEL EXIT SIGNS WHICH ARE INTERNALLY OR EXTERNALLY ILLUMINATED, PHOTO LUMINESCENT OR SELF-LUMINOUS SHALL BE PROVIDED IN ALL INTERIOR CORRIDORS. BUILDING CODE 1011.6. FIRE CODE 1011.6.
 - EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5-FOOT CANDLES. (1013.6.2)
 - EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL PROVIDE AN ILLUMINATION OF NOT LESS THAN 90 MIN. IN CASE OF PRIMARY POWER LOSS (1013.6.3)

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MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

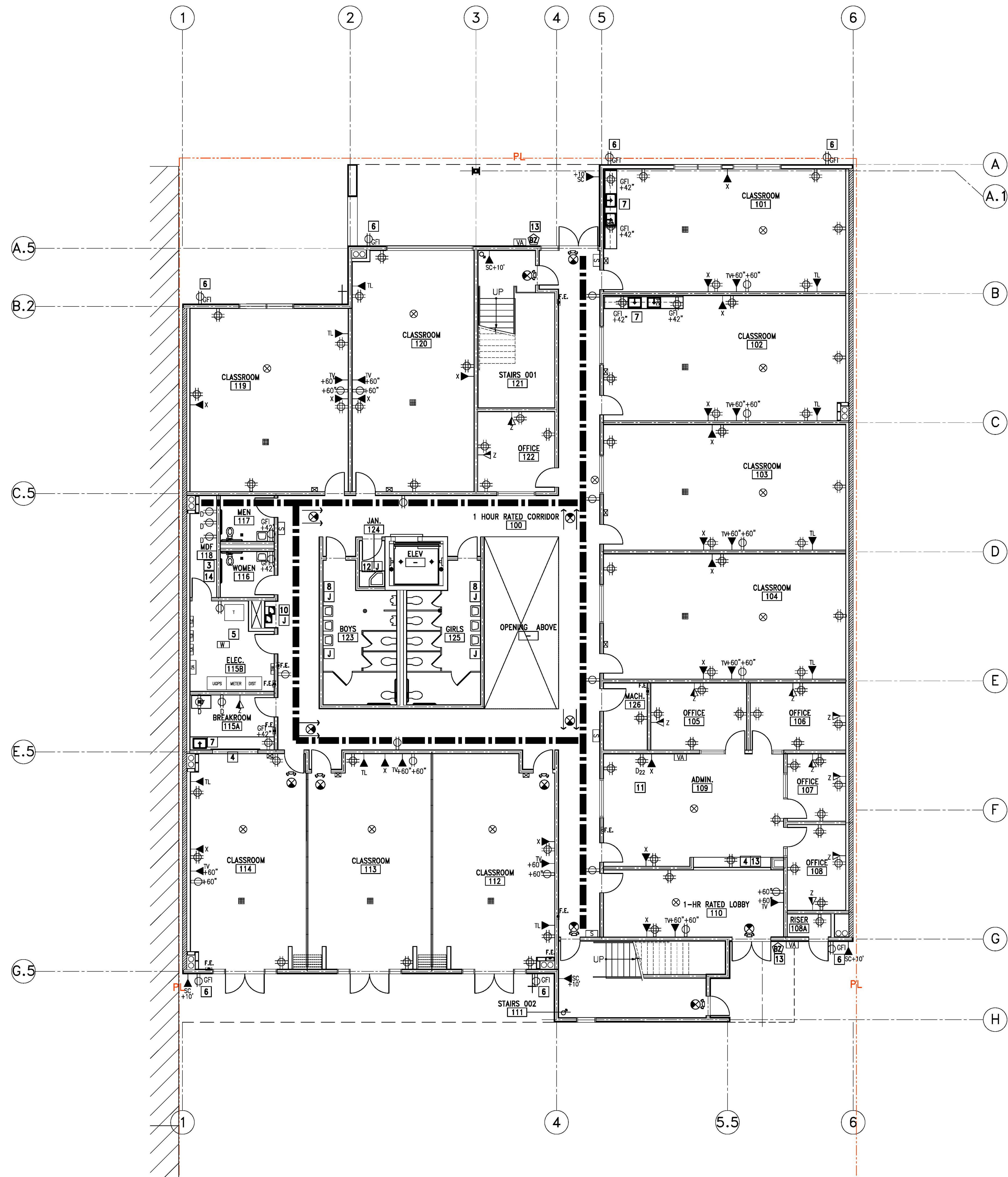
REV	DESCRIPTION	DATE
1	PLAN CHECK #1	6/14/2017
2	PD PLAN CHECK	10/31/2017
3	PD PLAN CHECK	12/14/2017



MAGNOLIA SCIENCE ACADEMY	
PROJECT NUMBER	18220 SHERMAN WAY, RESEDA, CA91335
DRAWING TITLE	FIRST FLOOR REFLECTED CEILING PLAN
DRAWN BY	12/14/2017
CHECKED BY	AS NOTED
DATE	
SCALE	
PROJECT	
DATE	
SCALE	
PROJECT	
DATE	
SCALE	

BID SET 03-07-18

A1.2



FIRST FLOOR POWER & SIGNAL PLAN
SCALE: 1/8" = 1'-0"

LEGEND	
	WALL MOUNTED FOURPLEX POWER OUTLET
	WALL MOUNTED DUPLEX POWER OUTLET
	WALL MOUNTED FOURPLEX DATA OUTLET
	WALL MOUNTED DUPLEX DATA OUTLET
	SW = CEILING SPEAKER + WIDE AREA ACCESS POINT SPEAKER BY OTHERS - WIDE AREA ACCESS POINT IN CONDUIT
	S = CEILING SPEAKER - PAIRED WITH WALL MOUNTED VOLUME CONTROL, LOCATED NEXT TO ENTRANCE DOOR. SPEAKER AND VOLUME CONTROL BY OTHERS. REQUIRES DUPLEX BOX + 1/2" CONDUIT IN WALL. VOLUME CONTROL FOR SPEAKERS
	S = WALL SPEAKER - SPEAKER BY OTHERS - REQUIRES DUPLEX BOX + CONDUIT TO CABLE TRAY (NO SEPARATE VOLUME CONTROL)
	VA = VIDEO ACCESS BOX - 3/4" CONDUIT TO CABLE TRAY TO OFFICE. NOTE: THESE ENTRANCE DOORS WILL HAVE ELECTRONIC LOCKS, CONTROLS IN OFFICE.
	W = WIDE AREA ACCESS POINT - BOX AND CONDUIT TO CABLE TRAY
	TL TEACHER LOCATION - VOIP + DATA QUAD BOX W/ 2EA 1.5" CONDUITS. ONE CONDUIT TO TV LOCATION IN ROOM - ONE CONDUIT TO CABLE TRAY TO MDF. PLUS ADJACENT POWER QUAD BOX, 120V
	TV TELEVISION/MONITOR LOCATION - TV MOUNTING BRACKET/CABLING BY OTHERS. REQUIRES DATA QUAD BOX WITH 2 CONDUITS LOCATED ABOVE CEILING - ONE 1.5" CONDUIT TO TL AND ONE 3/4" CONDUIT TO CABLE TRAY TO MDF. ALSO NEEDS ABOVE CEILING - DUPLEX POWER 120V
	X QUAD DATA BOX + 3/4" CONDUIT TO CABLE TRAY TO MDF - MOUNT LOW ON WALL OR ABOVE LAB TABLES. CENTER ON WALL - NOTE: LOW WALL DATA BOX UNDER TV IN ADDITION TO ABOVE CEILING DATA BOX SERVING TV
	Z DUPLEX DATA BOX + 3/4" CONDUIT TO CABLE TRAY TO MDF
	SC SECURITY CAMERA - EXTERIOR CAMERAS MOUNTED 10 FT ABOVE GRADE AND BELOW CANOPY AND PORCH ROOF - QUAD BOX + 3/4" CONDUIT TO CABLE TRAY TO MDF. CORRIDOR CAMERAS NOT SHOWN; NO CONDUIT REQUIRED.
	D DEDICATED POWER CIRCUIT FOR PRINTER AND BREAKROOM APPLIANCES
	D22 DEDICATED POWER CIRCUIT FOR PRINTER- 22V POWER
	GF- GROUNDED OUTLET
	X" X" ABOVE FINISHED FLOOR
	DBZ DOOR BUZZER BY OTHERS- PROVIDE CONDUIT
	J JUNCTION BOX FOR ELECTRICAL POWERED HAND DRYER, 20A CIRCUIT; DRYER SHALL BE AMERICAN DRYER INC. EXTREMEAR EXT-SS.
	EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM
	CABLE TRAY RUN - SMALL TO ACCOMMODATE LOW VOLTAGE ONLY. CLOSE TO WALL, ABOVE T-BAR CEILING
GENERAL DIRECTION: LOW VOLTAGE DEVICES AND WIRING TO BE BY OTHERS. BY OTHERS DEVICES INCLUDE: MDF EQUIPMENT UPS AND SERVER RACKS, CAT 5-6 WIRING AND HDV CABLES, COVER PLATES, CEILING AND WALL SPEAKERS, SPEAKER VOLUME CONTROL, TELEVISION MONITORS, TV MOUNTING BRACKETS, INDOOR AND OUTDOOR SECURITY CAMERAS AND MOUNTING BRACKETS, AND VIDEO ACCESS PANELS. DEVICES BY CONTRACTOR INCLUDE: ELECTRONIC DOOR LOCKS AT FRONT AND REAR ENTRANCES.	

POWER AND SIGNAL PLAN NOTES	
1	IN ALL THE CLASSROOMS, AT EACH FOURPLEX OUTLETS PROVIDE A 1-1/2" CONDUIT FOR DATA.
2	IN ALL THE CLASSROOMS, PROVIDE A DEDICATED CIRCUIT FOR EVERY TWO FOURPLEX OUTLETS.
3	MDF ROOM: PROVIDE 3/4" FIRE TREATED PLYWOOD ON RESTROOM SIDE WALLS; PROVIDE (3) DEDICATED 20A DUPLEX RECEPTACLES, EACH ON A SEPARATE CIRCUIT. A DEDICATED 1.5 TON AC UNIT TO BE PROVIDED FOR THIS ROOM. CONTRACTOR TO COORDINATE AND CONFIRM ELECTRICAL REQUIREMENTS WITH CLIENT'S IT PROVIDER.
4	PROVIDE POWER FOR FIRE RATED MOTORIZED ROLL-DOWN COUNTER DOOR PER MANUFACTURER'S RECOMMENDATIONS. SEE COOKSEN MOTOR-OPERATED COUNTER DOOR (OR EQUAL), COLORCODE FINISH; BETWEEN JAMB MOUNTED; FEATHEREDGE. SEE (05.0)
5	LOCATE FIRE ALARM CONTROL PANEL IN ELECTRICAL ROOM
6	PROVIDE LOCKABLE COVER PLATES FOR ALL EXTERIOR OUTLETS. WATER PROOF
7	PROVIDE POWER FOR INSTA-HOT WATER HEATER AND GARBAGE DISPOSAL. REFER TO PLUMBING PLANS FOR SPECIFICATION.
8	ELECTRIC POWERED HAND DRYER.
9	NOT USED
10	PROVIDE POWER FOR INTERIOR DRINKING FOUNTAIN. REFER TO PLUMBING ENGINEERING DWGS. FOR SPECS.
11	PROVIDE DEDICATED ELECTRICAL OUTLET FOR COPIER.
12	PROVIDE POWER/CONNECTION FOR HOT WATER HEATER WITHIN JANITOR'S CLOSET. REFER TO PLUMBING ENGINEERING DWGS. FOR SPECS.
13	PROVIDE DOOR BUZZER AND COMMUNICATION DEVICE WITH CONDUIT TO MAIN GATE ENTRANCE
14	MDF ROOMS 1ST AND 2ND FLOORS - ALL EQUIPMENT TO BE MOUNTED ON BATHROOM SIDE OF ROOMS - PROVIDE 3/4" PLYWOOD BACKING ON WALL - RACKS BY OTHERS. NEED 2 EA - 120V CIRCUITS WIT QUAD BOXES IN THESE ROOMS. PROVIDE 1-1/2" CONDUIT FROM 1ST FLOOR MDF TO 2ND FLOOR MDF; PROVIDE 1-1/2" CONDUIT FROM 1ST FLOOR MDF ROOM TO EXISTING BUILDING MDF.

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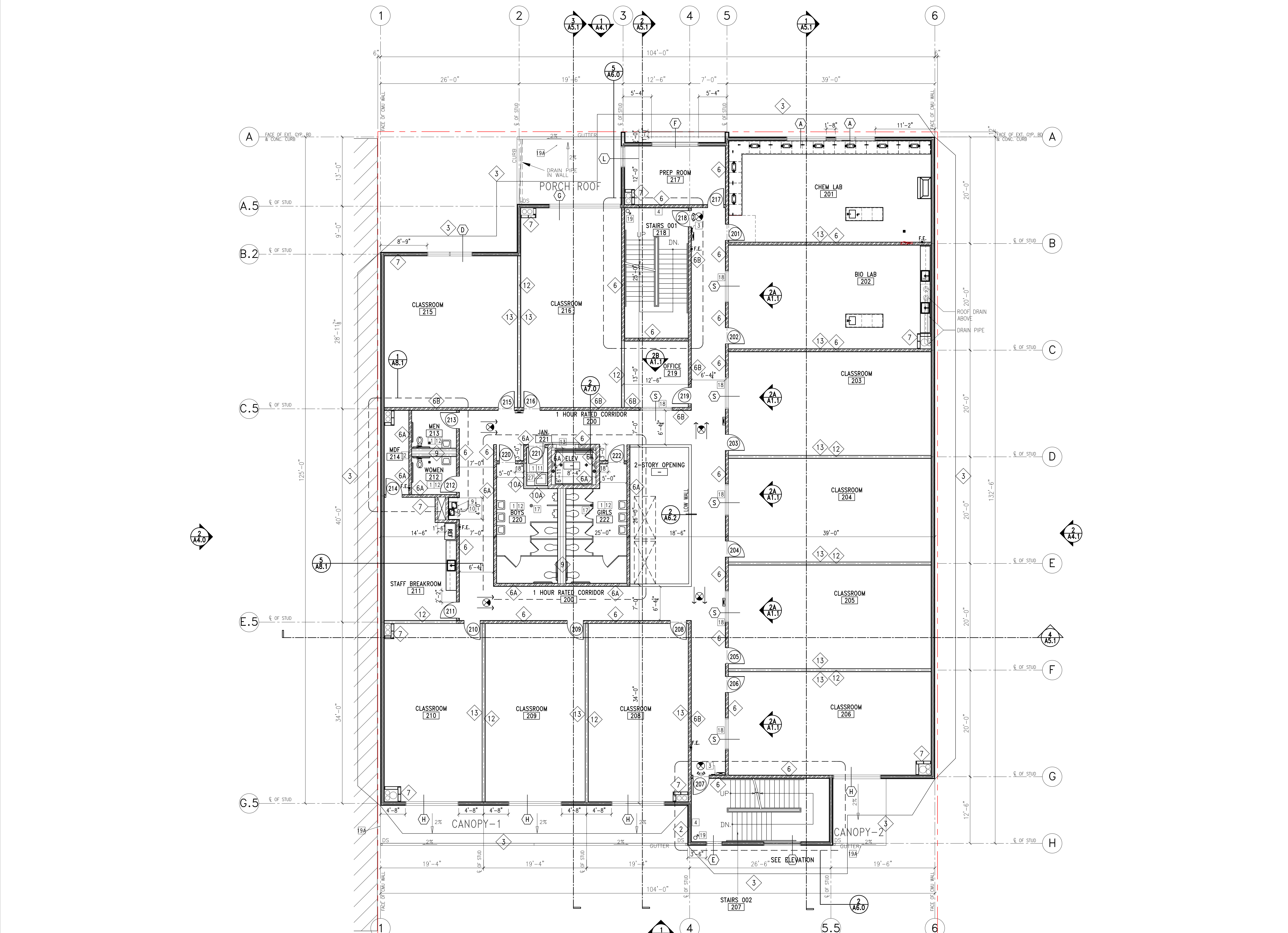
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PROJECT: MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA 91335
DRAWING TITLE: FIRST FLOOR POWER & SIGNAL PLAN
DATE: 12/14/2017
JOB NUMBER: AS NOTED

APPROVED BY: [Signature]
DRAWING NUMBER: A1.3

BID SET 03-07-18



SECOND FLOOR CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- FIELD VERIFY ALL CONDITIONS BEFORE ANY WORK.
- FURNISH & INSTALL ANY BLOCKING OR SEISMIC BRACING REQ'D BY FURNITURE OR CABINETWORK. REFER TO FURNITURE/CABINETWORK PLANS & DETAILS.
- FIRE ALARM SYSTEM SHALL BE UNDER SEPARATE PERMIT. FIRE ALARM CONTRACTOR SHALL PREPARE AND SUBMIT COMPLETE FIRE ALARM PLANS AND SPECIFICATIONS TO THE FIRE PREVENTION BUREAU AS REQUIRED BY CBC 505.7 & 505.9. DEVICE LOCATION PLANS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
- ALL EXIT DOORS TO BE OPENABLE FROM INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT (CBC 1003.3.1.3).
- ALL EXIT DOORS WILL BE PROVIDED WITH PANIC HARDWARE ONLY WHEN OCCUPANT LOAD IS GREATER THAN 50.
- SHAFTS TO BE ENCLOSED IN COMPLIANCE WITH BUILDING CODE SECTION 711.
- WIDTH AND HEIGHT OF REQUIRED EXIT DOORWAYS TO COMPLY WITH BUILDING CODE SECTION 1003.3.1.3.
- EXIT DOORS SHALL SWING IN THE DIRECTION OF EXIT TRAVEL WHEN SERVING ANY HAZARDOUS AREA OR WHEN SERVING AN OCCUPANT LOAD OF 50 OR MORE.
- INTERIOR WALL & CEILING FINISHES SHALL BE PROVIDED IN ACCORDANCE TO C.C.R. TITLE 24, PART 2, CHAPTER 8 AND SHALL NOT EXCEED A FLAME SPREAD CLASS AS FOLLOWS:
CLASS II-EXIT CORRIDORS; CLASS III-CLASSROOM
- ALL DRAPES, HANGINGS, CURTAINS, DROPS AND OTHER DECORATIVE MATERIAL TO COMPLY WITH FIRE CODE SECTION 1103.3.5.
- SEE PLUMBING PLANS FOR ACCESS PANEL SPECIFICATIONS AND LOCATIONS.
- PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRE-STOPPED WITH AN APPROVED MATERIAL IN ACCORDANCE WITH SECTION 714.3.1. SPACE BETWEEN PENETRATING MATERIALS MUST BE DESIGNED TO PREVENT MOVEMENT OF HOT FLAME OR GASES.
- SMOKE & FIRE DAMPERS MUST BE INSTALLED IN THE FOLLOWING LOCATIONS PER SECTION 716.5: A-DUCT PENETRATIONS OF AREA OR OCCUPANCY SEPARATION PASSING THROUGH WALLS WITH RATINGS OF TWO HOURS OR LESS; B-DUCTS PASSING THROUGH HORIZONTAL EXIT DOORWAYS TO COMPLY WITH BUILDING CODE SECTION 1003.3.1.3; C-DUCTS PENETRATING FIRE-RESISTIVE ELEMENTS OF FIRE-RATED CORRIDOR WALLS. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
- PROVIDE ANTI-GRAFFITI FINISH AT THE FIRST 9 FEET, MEASURED FROM GRADE, AT EXTERIOR WALLS AND DOORS.
- CONTINUOUS DRYWALL BEHIND ALL TUBS IS REQUIRED UNLESS THE WALLS ARE WITHIN THE UNIT AND NON-BEARING. BACK TO BACK TUBS WITH A COMMON PLUMBING WALL ARE IMPRACTICAL IN 1-HOUR BUILDINGS.
- PENETRATIONS IN FIRE-RESISTANT-RATED WALLS AND FLOORS SHALL COMPLY CBC SECTION 713.
- RECESS CEILING LIGHT FIXTURES MUST BE BOXED AROUND WITH 5/8" TYPE "X" DRYWALL TO MAINTAIN THE 1-HOUR CEILING ASSEMBLY.
- CONTINUOUS DRYWALL IS REQUIRED BEHIND ALL ELECTRICAL SERVICE PANELS, FIRE HOSES AND MEDICINE CABINETS.
- EXHAUST FANS FROM THE BATHROOM MUST ENTER THROUGH THE WALL DAMPERS ARE REQUIRED IF THE CEILING IS PENETRATED. (716.5)
- PLUMBING PENETRATION THROUGH HORIZONTAL OCCUPANCY SEPARATIONS SHALL BE BOXED OUT AND FILLED WITH APPROVED SAFING MATERIAL. INSULATION IS NOT APPROVED. (716.6)
- PENETRATION OF THE 1 HOUR CEILING BY DUCTS FROM THE FAU AND THE STOVE HOOD REQUIRE DAMPERS (USE A DUCTLESS HOOD WHENEVER POSSIBLE). ATTIC UNITS (INCLUDING HEAT PUMPS) REQUIRE DAMPERS AT ALL CEILING PENETRATIONS. (716.6)
- STEEL BEAMS AND COLUMNS SHALL BE PROTECTED AS REQUIRED FOR 1-HOUR PROTECTION, WHERE CEILING FORMS THE PROTECTIVE MEMBRANE FOR FIRE-RESISTIVE ASSEMBLIES (OCCUPANCY SEPARATIONS AND RATED ROOF/CEILING OR FLOOR/CEILING ASSEMBLIES). THE CONSTRUCTION (FLOOR JOISTS) AND THEIR SUPPORTING HORIZONTAL STRUCTURAL MEMBERS (BEAMS) NEED NOT BE INDIVIDUALLY FIRE PROTECTED EXCEPT WHERE SUCH MEMBERS SUPPORT DIRECTLY APPLIED LOADS FROM MORE THAN ONE FLOOR OR ROOF. THE REQUIRED FIRE RESISTANCE SHALL NOT BE LESS THAN THAT REQUIRED FOR INDIVIDUAL PROTECTION OF MEMBERS. (704.3)
- ALL PLUMBING PENETRATIONS THRU WALLS WHICH REQUIRE PROTECTED OPENINGS (FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS) ARE REQUIRED TO BE GALVANIZED OR CAST IRON PIPING.
- ALL BUILDING AND FACILITY ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS TO BE VISIBLE TO PERSONS ALONG APPROACHING CIRCULATION PATHS. (1117B.5.8.1.2, 1127B.3)
- THIS BUILDING IS OF TYPE V-A / III-A CONSTRUCTION. PROVIDE / SHOW CONTINUOUS DRYWALL BEHIND ALL TUBS IS REQUIRED UNLESS THE WALLS ARE WITHIN THE UNIT AND NON-BEARING. BACK TO BACK TUBS WITH A COMMON PLUMBING WALL ARE IMPRACTICAL IN 1-HOUR BUILDINGS.
- ALL INTERIOR PARTITIONS SHALL BE CONSTRUCTED OF NOT LESS THAN 1-HOUR FIRE-RESISTIVE CONSTRUCTION.
- ATTIC ACCESS OPENINGS IN 1-HOUR CEILING CAN BE 2 LAYERS OF 3/4" PLYWOOD OR ONE LAYER OF 1-5/8" TAG MATERIAL, SELF-CLOSING.
- ALL OPENINGS IN FLOORS ARE REQUIRED TO BE ENCLOSED BY A SHAFT HAVING WALL, FLOOR, AND CEILING OF 1-HOUR FIRE RESISTIVE CONSTRUCTION. (714.1.2)
- RECESS CEILING LIGHT FIXTURES MUST BE BOXED AROUND WITH 5/8" TYPE "X" DRYWALL TO MAINTAIN THE 1-HOUR CEILING ASSEMBLY.
- CONTINUOUS DRYWALL IS REQUIRED BEHIND ALL ELECTRICAL SERVICE PANELS, FIRE HOSES AND MEDICINE CABINETS.
- EXHAUST FANS FROM THE BATHROOM MUST ENTER THROUGH THE WALL DAMPERS ARE REQUIRED IF THE CEILING IS PENETRATED. (717.5)
- PLUMBING PENETRATION THROUGH HORIZONTAL OCCUPANCY SEPARATIONS SHALL BE BOXED OUT AND FILLED WITH APPROVED SAFING MATERIAL. INSULATION IS NOT APPROVED. (714.4.1.1)
- PENETRATION OF THE 1 HOUR CEILING BY DUCTS FROM THE FAU AND THE STOVE HOOD REQUIRE DAMPERS (USE A DUCTLESS HOOD WHENEVER POSSIBLE). ATTIC UNITS (INCLUDING HEAT PUMPS) REQUIRE DAMPERS AT ALL CEILING PENETRATIONS. (717.6.1)
- STEEL BEAMS AND COLUMNS SHALL BE PROTECTED AS REQUIRED FOR 1-HOUR PROTECTION, WHERE CEILING FORMS THE PROTECTIVE MEMBRANE FOR FIRE-RESISTIVE ASSEMBLIES (OCCUPANCY SEPARATIONS AND RATED ROOF/CEILING OR FLOOR/CEILING ASSEMBLIES). THE CONSTRUCTION (FLOOR JOISTS) AND THEIR SUPPORTING HORIZONTAL STRUCTURAL MEMBERS (BEAMS) NEED NOT BE INDIVIDUALLY FIRE PROTECTED EXCEPT WHERE SUCH MEMBERS SUPPORT DIRECTLY APPLIED LOADS FROM MORE THAN ONE FLOOR OR ROOF. THE REQUIRED FIRE RESISTANCE SHALL NOT BE LESS THAN THAT REQUIRED FOR INDIVIDUAL PROTECTION OF MEMBERS. (704.3)
- THIS BUILDING MUST BE EQUIPPED WITH AN AUTOMATIC FIRE EXTINGUISHING SYSTEM, COMPLYING WITH (NFPA-13/ NFPA-13R); THE SPRINKLER SYSTEM SHALL BE APPROVED BY PLUMBING DIV. PRIOR TO INSTALLATION. (903.2.7)

NOTE:
1. ALL STUD WALL INTERIOR SIDE ONLY, SHALL BE PLANED OR SHIMMED AS REQUIRED PRIOR TO DRYWALL INSTALLATION TO ASSURE A LEVEL SURFACE WITHOUT DIPS AND BOWS. DRYWALL SUBCONTRACTOR SHALL INSPECT AND APPROVE FRAMED PARTITIONS PRIOR TO INSTALLING DRYWALL WITH THE UNDERSTANDING THAT A LEVEL 5 FINISH IS REQUIRED. ALL DIPS AND BOWS OCCURRING AFTER DRYWALL IS INSTALLED, WILL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.
2. MAXIMUM CROSS SLOPE FOR WALKWAYS, HC DROP OFF AND RAMPS NOT EXCEED MORE THAN 2%.

FIRE DEPARTMENT GENERAL NOTES

- SEE A1.1
- INSTALL SMOKE GUARD. SEE DETAIL 9/D5.0.
 - FOLDING WALL: HUFCOR ELECTRIC CONTINUOUSLY-HINGED PANEL, SEE D7.0
 - PROVIDE DOOR BUZZER AND COMMUNICATION DEVICE WITH CONDUIT TO MAIN GATE ENTRANCE
 - SHAFT TO HAVE A 1-HR FIRE RATING. INSTALL (2) LAYERS OF 5/8" TYPE "X" GYP. BD. TO EXPOSED SIDE OF FRAMING. INSTALL TYPE "X" WATER RESISTANT GYP. BD. AT RESTROOM/JANITOR CLOSET SIDE. PROVIDE FIRE-RATED DAMPERS WHERE DUCTS PENETRATE THE FIRE-RATED WALLS. USE 1" TYPE S DRYWALL SCREWS 8" O.C. TO VERTICAL EDGES. SEE CA FILE NO. WP-1200.
 - PROVIDE FLOOR DRAIN; SEE PLUMBING PLAN. TILED FLOOR 1% SLOPE TO DRAIN
 - 45 MIN. GLAZING/DOOR, NOT EXCEED 25% OF THE COMMON WALL (716.6.7.2)
 - INSTALL CLASS I STANDPIPE
 - CANOPY
 - SEE AS.1
 - WATER HEATER SHELVE TO BE MOUNTED 6'-8" MIN. A.F.F. OVER JANITOR'S FLOOR SINK FOR REQUIRED MIN. HEAD CLEARANCE.

SYMBOLS LEGEND

- FINISH FLOOR ELEVATION CHANGE
- SEMI-RECESSED FIRE EXTINGUISHERS SEE SPECIFICATIONS AND DETAIL
- DOOR NUMBER DOOR KEY SEE DOOR SCHEDULE A10.0
- WINDOW KEY SEE WINDOW SCHEDULE A10.1 WINDOW TYPE

WALL LEGEND

EXTERIOR WALLS 2 HOUR FIRE RATED
PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3

- FURRING WALL @ CMU WALL-5/8" TYPE "X" GYP ONE SIDE, EXTERIOR PLASTER TROWL APPLIED. SEE DETAIL 1 AND STRUCT'L DETAIL
- 2-HR EXTERIOR STUCCO WALL WITH R-19 INSULATION, EXTERIOR PLYWOOD, FIBERGLASS MAT GYP SHEATHING, EXTERIOR PLASTER TROWEL APPLIED, STRUCTURAL PLYWOOD, 2-LAYER GYP. BD INTERIOR SIDE; SEE DETAIL 4A, 4B AND STRUCT'L DETAIL PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
- 2-HR EXTERIOR STUCCO WALL WITH R-19 INSULATION, EXTERIOR PLYWOOD, FIBERGLASS MAT GYP SHEATHING, EXTERIOR PLASTER TROWEL APPLIED, 2-LAYER GYP. BD INTERIOR SIDE; SEE DETAIL 4, 5 AND STRUCT'L DETAIL PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
- SAME AS 3 EXCEPT WITH CERAMIC TILE INTERIOR SIDE. PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
- 2-HR EXTERIOR STUCCO WALL @ NORTH CANOPY, SEE DETAIL 3 PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3

INTERIOR WALLS 1 HOUR FIRE RATED PARTITIONS
WALLS IN CORRIDORS ARE FIRE BARRIER/ ATRIUM SEPARATION WALLS

- 1-HR FIRE-RATED BARRIER/DEMISING SHEAR WALL WITH PLYWOOD ONE (CORRIDOR) SIDE. SEE DETAIL 8 AND SEE STRUCT'L
- 1-HR FIRE-RATED BARRIER AT CORRIDOR WITH STRUCT. PLYWOOD AND 5/8" TYPE "X" GYP. BD. ONE SIDE (CORRIDOR) AND 5/8" WATER RESISTANT GYP. BD. ON RESTROOM/JANITOR SIDE, SEE DETAIL 8A
- 1-HR FIRE-RATED BARRIER/DEMISING SHEAR WALL WITH PLYWOOD BOTH SIDES. SEE DETAIL 8B AND SEE STRUCT'L
- 1-HR FIRE-RATED SHAFT WALL, SEE DETAIL 9 AND STRUCTURAL

INTERIOR WALLS NON-RATED PARTITIONS

- WOOD STUD DOUBLE PLUMBING WALL 5/8" TYPE X WATER RESISTANT GREEN GYP. BD. EXPOSED SIDE, WITH SOUND INSULATION, SEE DETAIL 12
- STUD WALL AT WET AREA WITH 5/8" WATER RESISTANT GYP. BD. ON EXPOSED SIDE ONLY. SEE DET. 13
- STUD WALL AT WET AREA WOOD STUD WALL FULL HEIGHT AND SOUND INSULATION WITH 5/8" WATER RESISTANT GYP. BD. BOTH SIDES. SEE DETAIL 10A
- WOOD STUD WALL FULL HEIGHT WITH 5/8" GYP. BOARD BOTH SIDES WITH SOUND INSULATION. SEE DETAIL 10
- DEMISING SHEAR WALL, NON-RATED WITH PLYWOOD ON ONE OR BOTH SIDES. SEE STRUCT'L AND 11
- 12' LONG 6X6 BLOCKING REQUIRED AT TV TRACKING- HEIGHT TBD.

CONSTRUCTION PLAN NOTES

- PROVIDE PRESSURE TREATED FLOOR SILL PLATE ON ALL BATHROOM WALLS, JANITOR'S CLOSET WALLS AND EXTERIOR PERIMETER WALLS ON GROUND FLOOR.
- PROVIDE 5/4" FIRE TREATED PLYWOOD ON ALL WALLS IN MDF ROOM.
- 1011.4 RAISED CHARACTER AND BRAILLE EXIT SIGNS, TACTILE EXIT SIGNS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
 - EACH GRADE-LEVEL EXTERIOR EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT"
 - EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE:
 - "EXIT STAIR DOWN"
 - "EXIT RAMP DOWN"
 - "EXIT STAIR UP"
 - "EXIT RAMP UP"
 - EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE."
 - EACH EXIT DOOR THROUGH A HORIZONTAL EXIT THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS, "EXIT" RAISED CHARACTER AND BRAILLE EXIT SIGNS SHALL COMPLY WITH SECTION 1117B.5.1 ITEM 1 SECTIONS 11B-703.1, 11B-703.2, 11B-703.3 AND 11B-703.5.
- PROVIDE TACTILE STAIR LEVEL IDENTIFICATION SIGN THAT COMPLIES WITH 1022.9, AT EACH FLOOR LEVEL LANDING.
- PROVIDE FIRE RATED MOTORIZED ROLL-UP DOOR W/ FUSIBLE LINK. SEE DOOR SCHEDULE.
- ROOF DRAINS. FOR ROOF DRAINS/OVERFLOW DRAINS EXITING THE BUILDING, SEE DETAIL #5/D5.0.
- PROPOSED LOCATION FOR FIRE SPRINKLER RISER/VALVE. PROVIDE ACCESS PANEL AS REQUIRED.
- HYDRO-STATION DRINKING FOUNTAIN, SEE PLUMBING PLAN FOR ADDITIONAL INFORMATION
- DRINKING FOUNTAIN ALCOVE, ALCOVE CEILING HEIGHT @ 7'-0" AFF. SEE DTL 5/A8.0. INSTALL CERAMIC TILES 4'-0" A.F.F. AT ALL WALLS OF ALCOVE.
- PROVIDE WATER RESISTANT GYP ON JAN. CLOSET SIDE.
- ALL RESTROOM FLOOR TO HAVE A 1/8" SLOPE TO FLOOR DRAIN. SEE PLUMBING ENG. DWGS. FOR FLOOR DRAIN LOCATIONS.
- INSTALL SMOKE GUARD. SEE DETAIL 9/D5.0.
- FOLDING WALL: HUFCOR ELECTRIC CONTINUOUSLY-HINGED PANEL, SEE D7.0
- PROVIDE DOOR BUZZER AND COMMUNICATION DEVICE WITH CONDUIT TO MAIN GATE ENTRANCE
- SHAFT TO HAVE A 1-HR FIRE RATING. INSTALL (2) LAYERS OF 5/8" TYPE "X" GYP. BD. TO EXPOSED SIDE OF FRAMING. INSTALL TYPE "X" WATER RESISTANT GYP. BD. AT RESTROOM/JANITOR CLOSET SIDE. PROVIDE FIRE-RATED DAMPERS WHERE DUCTS PENETRATE THE FIRE-RATED WALLS. USE 1" TYPE S DRYWALL SCREWS 8" O.C. TO VERTICAL EDGES. SEE CA FILE NO. WP-1200.
- PROVIDE FLOOR DRAIN; SEE PLUMBING PLAN. TILED FLOOR 1% SLOPE TO DRAIN
- 45 MIN. GLAZING/DOOR, NOT EXCEED 25% OF THE COMMON WALL (716.6.7.2)
- INSTALL CLASS I STANDPIPE
- CANOPY
- SEE AS.1
- WATER HEATER SHELVE TO BE MOUNTED 6'-8" MIN. A.F.F. OVER JANITOR'S FLOOR SINK FOR REQUIRED MIN. HEAD CLEARANCE.

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MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

REV	DESCRIPTION	DATE
1	PLAN CHECK #1	6/14/2017
2	PD PLAN CHECK	10/31/2017
3	PD PLAN CHECK	12/14/2017

PROJECT: MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA91335

DESIGN TITLE: SECOND FLOOR CONSTRUCTION PLAN

DATE	BY	CHECKED
12/14/2017		
		AS NOTED

APPROVED: [Signature]

A2.1



SECOND REFLECTED CEILING PLAN

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

GENERAL NOTES

SEE A1.2

LEGEND

- NEW 2'x4' GRID SEE DETAILS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
- TILES:
FINE FISSURED HIGH NRC/CAC
- NEW GYP. BD. SOFFIT OR CEILING
REFER TO PLAN FOR CEILING HEIGHTS. SEE DET. 6
- 48" x 96" SKYLIGHT; DUAL WALL, WHITE ACRYLIC DOME SKYLIGHT (LARR #2708)
- FINISH CEILING HEIGHT EX. EXISTING PLASTER CLG. (VIF.)
- EXHAUST DUCT, REFER TO MECHANICAL DWGS.
- RETURN DUCT, REFER TO MECHANICAL DWGS.
- SUPPLY DUCT, REFER TO MECHANICAL DWGS.

FIXTURE SYMBOLS

- ISOLIT ELT SERIES CLEAR W/ WHITE TRIM & GREEN LETTERS EXIT LIGHT PER ELEC. PLANS COMPLIANCE WITH BLDG. CODE SEC. 1003.2.8.1. SURFACE MTD.; (L) SELF-ILLUMINATED LOW LEVEL EXIT SIGN PROVIDED CONJUNCTION WITH EXIT SIGNAGE PACKAGE (WHERE SHOWN)
- INTERNALLY ILLUMINATED FLOOR LEVEL EXIT SIGN PROVIDED IN ALL INTERIOR CORRIDORS (1011.6)
- 2'x4' RECESSED LED LIGHT FIXTURE; BY COOPER LIGHTING EATON. 24AC-LD4-44-UNV-LB40
- 13"x4' SURFACE MOUNTED LED LIGHT FIXTURE; BY LAMAR LIGHTING VGAL SERIES- 48-L-40
- 6-INCH RECESSED LED FIXTURE; BY COOPER LIGHTING EATON. HALO COMMERCIAL- PD6-30-D010-PDM6A-835-61V-C
- 8"x4' SURFACE MOUNTED LED LIGHT FIXTURE; BY COOPER LIGHTING EATON. 4-LED4-40SL-F-UNV-L835-CD-1-U
- 4"x8' SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT. SEEM 4 LED: FSM4LS-FL-625LF-1C-UNV-LD1-SM-WH-8'
- 4"x4' SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT. SEEM 4 LED: FSM4LS-FL-625LF-1C-UNV-LD1-SM-WH-4'
- 2'- SURFACE MOUNTED LED LIGHT FIXTURE; BY FORUM SAD-34-30-SAT-S-2-120V-WH
- 4'- SURFACE MOUNTED LED LIGHT FIXTURE; BY FORUM SAD-34-30-SAT-S-4-120V-WH
- 7"x4' WALL MOUNT LED LIGHT FIXTURE; BY FOCAL POINT. VERVE IV LED- FV4LW-FL-625LF-1C-UNV-LD1-WM-WH-4'

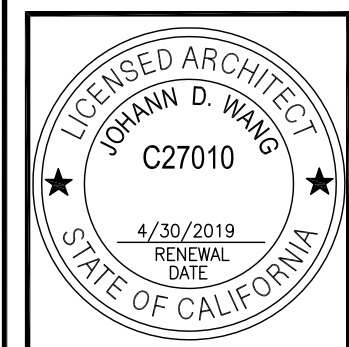
REFLECTED CEILING PLAN NOTES

- 1 (2) LAYERS OF 5/8" GYP. BD. APPLIED TO UNDERSIDE OF FRAMING.
- 1 HOUR FIRE RATING REF. GA FILE NO. FC 5513 AT 1ST FLOOR AND FC 5407 AT ROOF. PAINT EXPOSED GYP. BD. FACE WHICH IS ATTACHED TO THE UNDERSIDE OF FRAMING ABOVE. SEE SHEET "A1.5" FOR PAINT COLOR.
- 2 DRYWALL SOFFIT AT +8'-0" AFF. WITH RECESSED ROLL-DOWN DOOR. SEE DETAIL 1
- 3 NOT USED
- 4 PROVIDE GYP. BD. HEADER AT 10'-0" AFF. SEE SHEET "A1.5" FOR PAINT COLOR.
- 5 GYP. CLG.
- 6 STUCCO CANOPY SOFFIT
- 6A METAL PANEL, SEE SECTION 1/A5.4
- 7 DRINKING FOUNTAIN ALCOVE. ALCOVE TO HAVE A SUSPENDED GYP. BD. CEILING AT 7'-0" AFF. SEE DETAIL 8
- 8 EXPOSED, NO CEILING

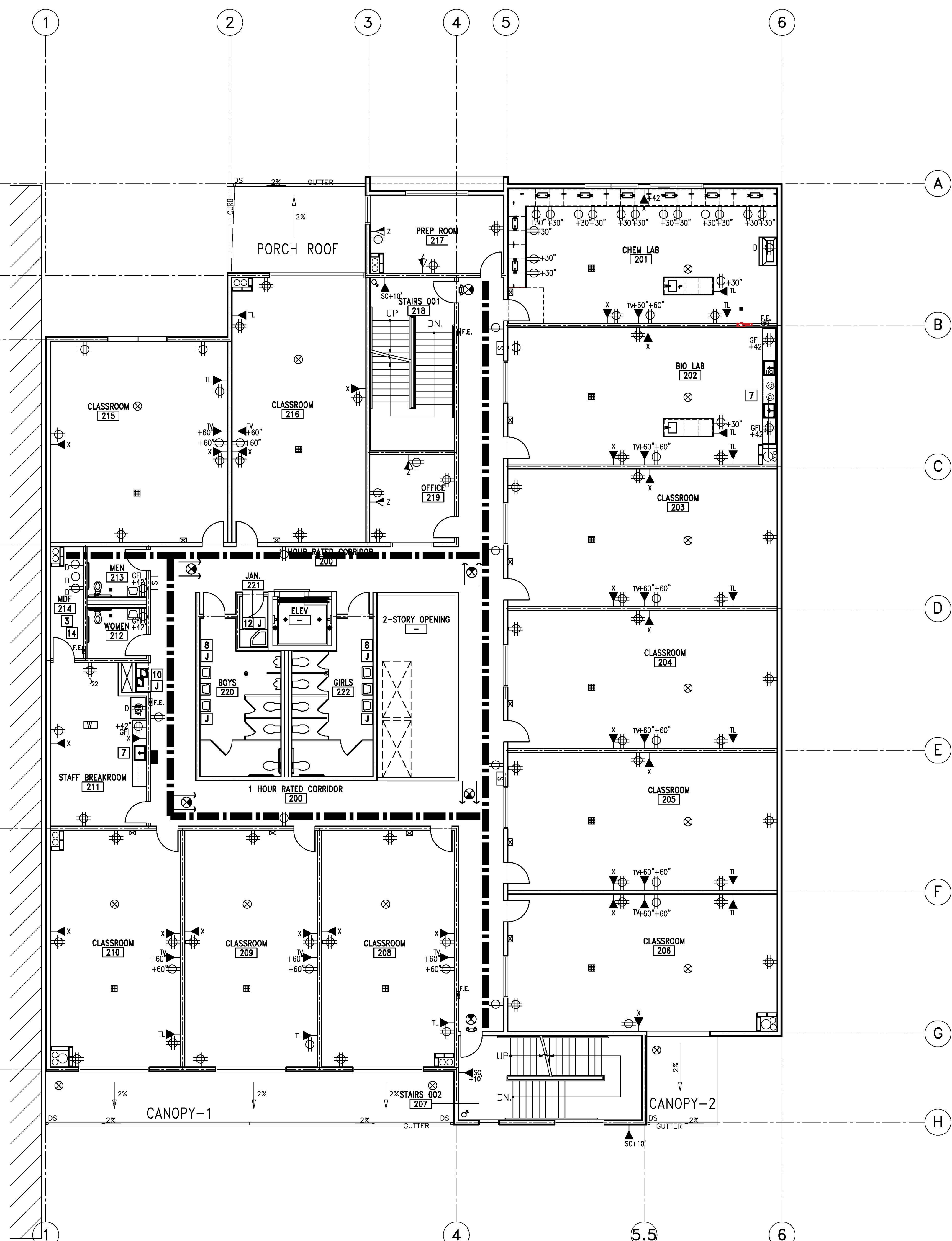
FIRE DEPARTMENT GENERAL NOTES

- 1. THE MEANS OF EGRESS, AND EXIT DISCHARGE, SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED WITH A LIGHT INTENSITY OF NOT LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE LEVEL. BUILDING CODE 1006.2.
- 2. EXITS, EXIT ACCESS DOORS AND PATHS OF EGRESS TRAVEL THAT IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS SHALL BE MARKED BY AN APPROVED EXIT SIGN THAT IS READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED. BUILDING CODE 1011.
- NOTE: ADDITIONAL EXIT SIGNS MAY BE REQUIRED AT TIME OF FIELD INSPECTION.
- 3. PROVIDE LOW-LEVEL EXIT SIGNS PER TITLE 24, 1011.6.
- 4. EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT. BUILDING CODE 1004.3. FIRE CODE 1004.3.
- 5. WHERE EXIT SIGNS ARE REQUIRED, ADDITIONAL APPROVED FLOOR-LEVEL EXIT SIGNS WHICH ARE INTERNALLY OR EXTERNALLY ILLUMINATED, PHOTO LUMINESCENT OR SELF-LUMINOUS SHALL BE PROVIDED IN ALL INTERIOR CORRIDORS. BUILDING CODE 1011.6. FIRE CODE 1011.6.
- 6. EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5-FOOT CANDLES. (1013.6.2)
- 7. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL PROVIDE AN ILLUMINATION OF NOT LESS THAN 90 MIN. IN CASE OF PRIMARY POWER LOSS (1013.6.3)

REV	DESCRIPTION	DATE
1	PLAN CHECK #1	6/14/2017
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PROJECT	
MAGNOLIA SCIENCE ACADEMY	
PROJECT ADDRESS 18220 SHERMAN WAY, RESEDA, CA 91335	
DRAWING TITLE	
SECOND FLOOR REFLECTED CEILING PLAN	
DRAWN BY	DATE
AS NOTED	12/14/2017
CHECKED BY	DRAWING SCALE
AS NOTED	AS NOTED
DATE	DRAWING NUMBER
12/14/2017	A2.2

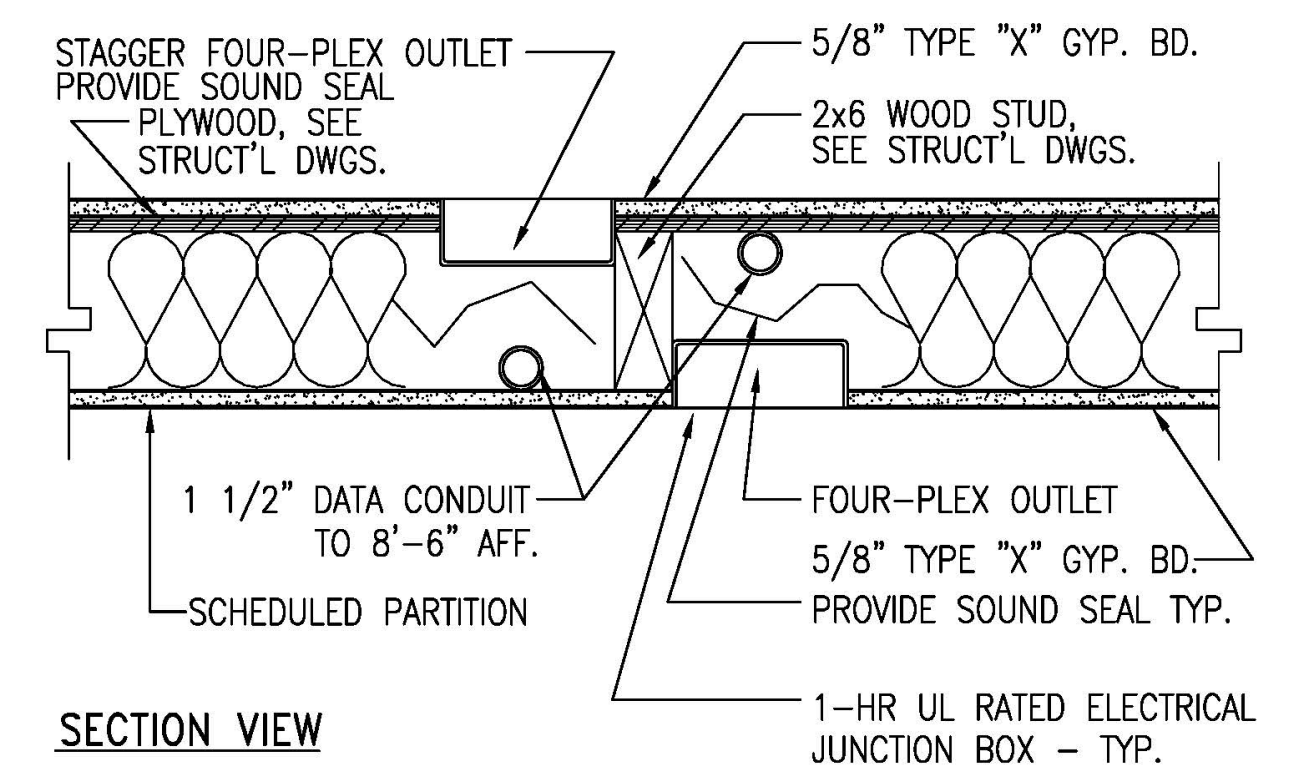


SECOND FLOOR POWER & SIGNAL PLAN

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

GENERAL NOTES

- REFER TO ENGINEERED DWGS. FOR ELECTRICAL CIRCUITING. ALL ELECTRICAL DEVICES TO BE CIRCUITED AND INSTALLED TO COMPLY W/ LOCAL CODES A.D.A. TITLE III AND APPLICABLE STATE ENERGY REQUIREMENTS.
- SPECS. & ILLUSTRATIONS OF ELECT. DEVICES SPECIFIED BY THE ELECT. ENGINEERS SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW & APPROVAL STAMP PRIOR TO PURCHASE OF MATERIALS & COMMENCEMENT OF WORK.
- REFER TO ENGINEERED DWGS. FOR CIRCUITING & SPECS. TO SPECIFY EXACT LOCATIONS OF FIXTURES, OUTLETS, OR EQUIPMENT; REFER TO ARCHITECT DWGS. IF NO DIMENSIONS ARE NOTED, CONTRACTOR SHALL SCALE LOCATIONS OFF DWGS. & INSTALL ACCORDINGLY. ANY DISCREPANCIES BETWEEN NOTED DIMENSIONS AND FIELD CONDITIONS SHALL BE REPORTED TO ARCHITECT IMMEDIATELY, PRIOR TO INSTALLATION.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL SWITCHES, OUTLETS & DEVICES PRIOR TO DRYWALL INSTALL.
- ALL STD. COVERPLATES & DEVICES SHALL BE LEVITON DECORA SERIES U.O.N. EXCEPTION: EQUIPMENT REQUIRING NON-STANDARD RECEPTACLES.
- ALL STD. POWER & SIGNAL COVERPLATES, SWITCHES & DEVICE FINISHES SHALL BE WHITE U.O.N. WHERE INDICATED, CLEAN (ISOLATED) ELECTRICAL POWER TO BE DISTINGUISHED BY A GRAY RECEPTACLE. SEPARATE CIRCUITS TO BE DISTINGUISHED BY AN ORANGE RECEPTACLE.
- ALL WALL MTD. SIGNAL OUTLETS SHALL HAVE A J-BOX. COMMUNICATIONS & DATA SHALL PROVIDE COVERPLATES FOR ALL SIGNAL OUTLETS. CONTRACTOR SHALL PROVIDE COVERPLATES FOR ALL ELECTRICAL OUTLETS & SWITCHES.
- ALL CONDUIT AT WALL & FLOOR MOUNTED SIGNAL OUTLETS SHALL RECEIVE PULL WIRES INSTALLED BY THE CONTRACTOR.
- DO NOT INSTALL OUTLETS EITHER BACK TO BACK OR SIDE BY SIDE ON OPPOSITE SIDES OF SAME WALL EXCEPT WHERE SPECIFICALLY DIMENSIONED. SEPARATE ALL SUCH OUTLETS W/ ONE STUD.
- ALL OUTLETS, SWITCHES & J-BOXES LOCATED IN ACOUSTICAL PARTITIONS SHALL RECEIVE BACKING EQUIVALENT TO "LOWVIBES ELECTRICAL PADS."
- WHERE WALL MOUNTED OUTLETS ARE INDICATED SIDE BY SIDE, THE MAX. SEPARATION BETWEEN SUCH OUTLETS SHALL BE 6" CEN. TO CEN. U.O.N.
- ALL WALL TEL. & ELECT. OUTLETS SHALL BE INSTALLED FROM BOTTOM OF RECEPTACLE BOX OR RECEPTACLE HOUSING TO 15" AFF. U.O.N. OUTLETS INSTALLED ABOVE MILLWORK TO BE INSTALLED VERTICALLY U.O.N. SEE 11/A0.3
- ALL SWITCHES SHALL BE GANG PLATED, WHERE APPLICABLE.
- SWITCHES & NOTION SENSORS (IF ANY) SHALL BE INSTALLED @ 42" A.F.F. TO CENTER AND AT 6" OFF DOOR JAMBS, U.O.N.
- MOUNT SWITCHES & OUTLETS FORWARD TO FACE OF FINISHED BACK WALL LOCATIONS OF TILES, WALLS AND SPLASH. REFER TO FINISH AND/OR CABINET PLANS FOR LOCATIONS.
- ALL ELECTRICAL ITEMS NOTED FOR INSTALL. IN CABINET WORK SHALL BE SUPPLIED, INSTALLED AND COORDINATED BY THE CONTRACTOR, U.O.N.
- COORDINATE, BID, FURNISH & INSTALL ALL CONDUIT RUNS, CONDUIT SLEEVES AND PLYWOOD BACKBOARD. COORDINATE WITH CLIENT AND/OR CLIENT'S COMMUNICATIONS & DATA VENDORS TO CONFIRM REQUIREMENTS.
- COORDINATE, BID, FURNISH & INSTALL ALL SECURITY DEVICE, J-BOXES, CONDUIT SLEEVES AND PLYWOOD BACKBOARDS. COORDINATE WITH CLIENT'S COMMUNICATIONS & DATA VENDORS TO CONFIRM REQUIREMENTS.
- FIRE ALARM SYSTEM:
 - NEW FIRE LIFE SAFETY SYSTEM TO CONFORM TO CURRENT REQUIREMENTS. SYSTEM SHALL BE LEFT IN FIRST CLASS OPERATING CONDITION. COMPATIBLE W/ AND INTEGRATED INTO THE BLDG. ALARM CONTROL SYSTEM.
 - FIRE ALARM SYSTEM SHALL CONSIST OF SMOKE DETECTORS, AUDIBLE & VISUAL (STROBE) ALARMS, AND MANUAL FIRE ALARM PULL STATIONS AS REQ'D BY STATE FIRE MARSHALL.
 - SUBMIT DESIGN SPECS. AND DRAWINGS FOR ARCHITECT COORDINATION WITH ARCHITECTURAL DRAWINGS AND APPROVAL PRIOR TO PERMIT SUBMITTAL.
 - PROVIDE AN APPROVED FIRE ALARM SYSTEM. SUBMIT PLANS TO AREA PRIOR TO INSTALLATION PER TITLE 24, 305.9 & FIRE CODE 1007.2.4.
- ALL OPEN WIRING IN PLENUM AREAS TO BE PLENUM RATED.
- PROVIDE DATA CONDUIT PER ELECTRICAL PLANS & PLANS PROVIDED BY THE OWNERS DATA VENDOR AS NOTED BUT NOT LIMITED TO THE FOLLOWING:
 - PROVIDE CONDUIT TO OWNER PROVIDED WIRELESS ANTENNA.
 - PROVIDE CONDUIT HOMERUN FROM DATA DROPS TO COMM. DATA ROOM



TYPICAL ELECTRICAL JUNCTION BOX & CONDUIT AT 1-HR WALL

LEGEND

- WALL MOUNTED FOURPLEX POWER OUTLET
 - WALL MOUNTED DUPLEX POWER OUTLET
 - WALL MOUNTED FOURPLEX DATA OUTLET
 - WALL MOUNTED DUPLEX DATA OUTLET
 - SW = CEILING SPEAKER + WIDE AREA ACCESS POINT
SPEAKER BY OTHERS - WIDE AREA ACCESS POINT IN CONDUIT
 - S = CEILING SPEAKER - PAIRED WITH WALL MOUNTED VOLUME CONTROL, LOCATED NEXT TO ENTRANCE DOOR. SPEAKER AND VOLUME CONTROL BY OTHERS. REQUIRES DUPLEX BOX + 1/2" CONDUIT IN WALL VOLUME CONTROL FOR SPEAKERS
 - S = WALL SPEAKER - SPEAKER BY OTHERS - REQUIRES DUPLEX BOX + CONDUIT TO CABLE TRAY (NO SEPARATE VOLUME CONTROL)
 - VA = VIDEO ACCESS BOX - 3/4" CONDUIT TO CABLE TRAY TO LOCK. NOTE: THESE ENTRANCE DOORS WILL HAVE ELECTRONIC LOCKS, CONTROLS IN OFFICE.
 - W = WIDE AREA ACCESS POINT - BOX AND CONDUIT TO CABLE TRAY
 - TL TEACHER LOCATION - VOIP + DATA QUAD BOX W/ 2EA 1.5" CONDUITS. ONE CONDUIT TO TV LOCATION IN ROOM - ONE CONDUIT TO CABLE TRAY TO MDF. PLUS ADJACENT POWER QUAD BOX, 120V
 - TV TELEVISION/MONITOR LOCATION - TV MOUNTING BRACKET/CABLING BY OTHERS REQUIRES DATA QUAD BOX WITH 2 CONDUITS LOCATED ABOVE CEILING - ONE 1.5" CONDUIT TO TL AND ONE 3/4" CONDUIT TO CABLE TRAY TO MDF ALSO NEEDS ABOVE CEILING - DUPLEX POWER 120V
 - X QUAD DATA BOX + 3/4" CONDUIT TO CABLE TRAY TO MDF - MOUNT LOW ON WALL OR ABOVE LAB TABLES. CENTER ON WALL - NOTE: LOW WALL DATA BOX UNDER TV IN ADDITION TO ABOVE CEILING DATA BOX SERVING TV
 - Z DUPLEX DATA BOX + 3/4" CONDUIT TO CABLE TRAY TO MDF
 - SC SECURITY CAMERA - EXTERIOR CAMERAS MOUNTED 10 FT ABOVE GRADE AND BELOW CANOPY AND PORCH ROOF - QUAD BOX + 3/4" CONDUIT TO CABLE TRAY TO MDF. CORRIDOR CAMERAS NOT SHOWN; NO CONDUIT REQUIRED.
 - D DEDICATED POWER CIRCUIT
 - D22 DEDICATED POWER CIRCUIT FOR PRINTER- 22V POWER
 - GF1 GROUNDED OUTLET
 - X" ABOVE FINISHED FLOOR
 - DOOR BUZZER BY OTHERS- PROVIDE CONDUIT
 - JUNCTION BOX FOR ELECTRICAL POWERED HAND DRYER, 20A CIRCUIT; DRYER SHALL BE AMERICAN DRYER INC. EXTREMAIR EXT-SS.
 - EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM
 - CABLE TRAY RUN - SMALL TO ACCOMMODATE LOW VOLTAGE ONLY CLOSE TO WALL, ABOVE T-BAR CEILING
- GENERAL DIRECTION:**
LOW VOLTAGE DEVICES AND WIRING TO BE BY OTHERS. BY OTHERS DEVICES INCLUDE: MDF EQUIPMENT UPS AND SERVER RACKS, CAT 5-6 WIRING AND HDV CABLES, COVER PLATES, CEILING AND WALL SPEAKERS, SPEAKER VOLUME CONTROL, TELEVISION MONITORS, TV MOUNTING BRACKETS, INDOOR AND OUTDOOR SECURITY CAMERAS AND MOUNTING BRACKETS, AND VIDEO ACCESS PANELS. DEVICES BY CONTRACTOR INCLUDE: ELECTRONIC DOOR LOCKS AT FRONT AND REAR ENTRANCES.

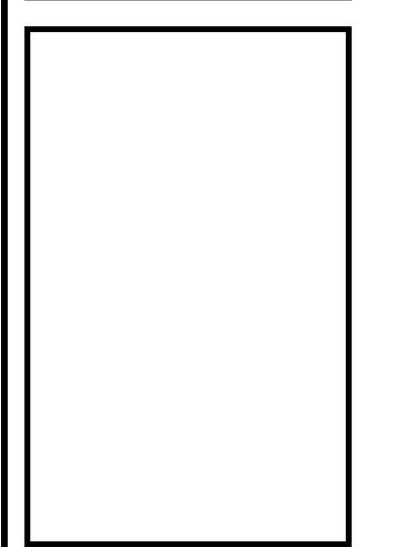
POWER AND SIGNAL PLAN NOTES

- IN ALL THE CLASSROOMS, AT EACH FOURPLEX OUTLETS PROVIDE A 1-1/2" CONDUIT FOR DATA.
- IN ALL THE CLASSROOMS, PROVIDE A DEDICATED CIRCUIT FOR EVERY TWO FOURPLEX OUTLETS.
- MDF ROOM: PROVIDE 3/4" FIRE TREATED PLYWOOD ON RESTROOM SIDE WALLS; PROVIDE (3) DEDICATED 20A DUPLEX RECEPTACLES, EACH ON A SEPARATE CIRCUIT. A DEDICATED 1.5 TON AC UNIT TO BE PROVIDED FOR THIS ROOM. CONTRACTOR TO COORDINATE AND CONFIRM ELECTRICAL REQUIREMENTS WITH CLIENT'S IT PROVIDER.
- PROVIDE POWER FOR FIRE RATED MOTORIZED ROLL-DOWN COUNTER DOOR PER MANUFACTURER'S RECOMMENDATIONS. SEE COOKSEN MOTOR-OPERATED COUNTER DOOR (OR EQUAL), COLORCODE FINISH; BETWEEN JAMB MOUNTED; FEATHEREDGE. SEE 05.0
- LOCATE FIRE ALARM CONTROL PANEL IN ELECTRICAL ROOM
- PROVIDE LOCKABLE COVER PLATES FOR ALL EXTERIOR OUTLETS. WATER PROOF
- PROVIDE POWER FOR INSTA-HOT WATER HEATER AND GARBAGE DISPOSAL. REFER TO PLUMBING PLANS FOR SPECIFICATION.
- ELECTRIC POWERED HAND DRYER.
- NOT USED
- PROVIDE POWER FOR INTERIOR DRINKING FOUNTAIN. REFER TO PLUMBING ENGINEERING DWGS. FOR SPECS.
- PROVIDE DEDICATED ELECTRICAL OUTLET FOR COPIER.
- PROVIDE POWER/CONNECTION FOR HOT WATER HEATER WITHIN JANITOR'S CLOSET. REFER TO PLUMBING ENGINEERING DWGS. FOR SPECS.
- PROVIDE DOOR BUZZER AND COMMUNICATION DEVICE WITH CONDUIT TO MAIN GATE ENTRANCE
- MDF ROOMS 1ST AND 2ND FLOORS - ALL EQUIPMENT TO BE MOUNTED ON BATHROOM SIDE OF ROOMS - PROVIDE 3/4" PLYWOOD BACKING ON WALL - RACKS BY OTHERS NEED 2 EA - 120V CIRCUITS W/ QUAD BOXES IN THESE ROOMS. PROVIDE 1-1/2" CONDUIT FROM 1ST FLOOR MDF TO 2ND FLOOR MDF. PROVIDE 1-1/2" CONDUIT FROM 1ST FLOOR MDF ROOM TO EXISTING BUILDING MDF.

FIRE DEPARTMENT GENERAL NOTES

- THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. BUILDING CODE 1006.3

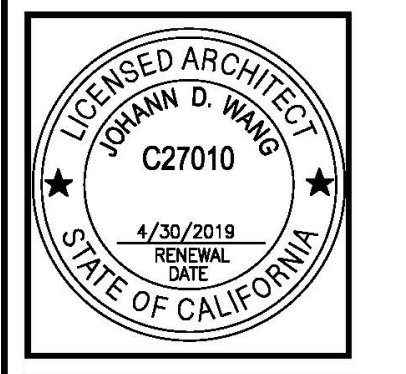
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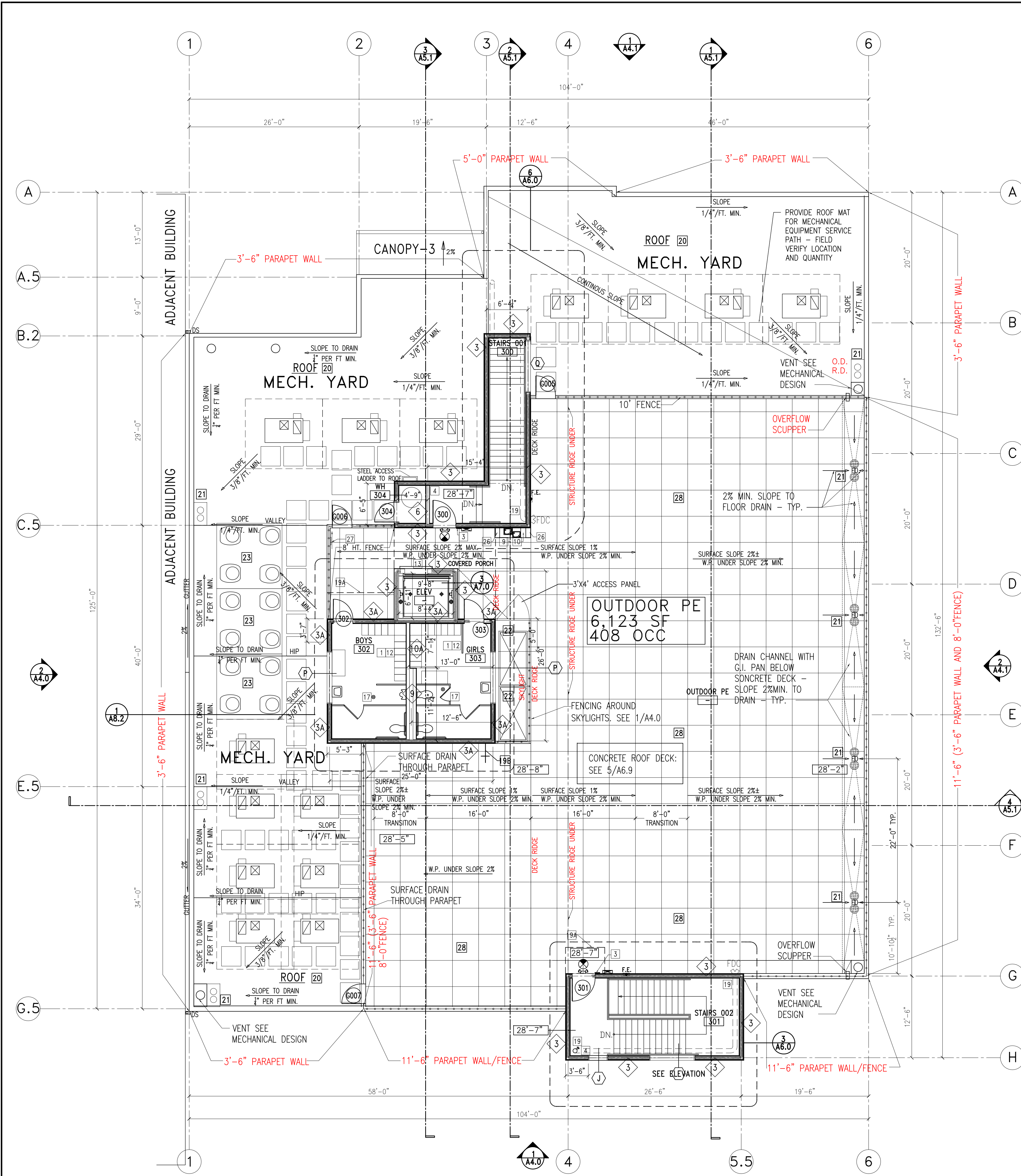
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PROJECT	
MAGNOLIA SCIENCE ACADEMY	
PROJECT ADDRESS 18220 SHERMAN WAY, RESEDA, CA 91335	
DATE: 12/14/2017	SCALE: AS NOTED
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BID SET 03-07-18



ROOF CONSTRUCTION PLAN
 SCALE: 1/8" = 1'-0"

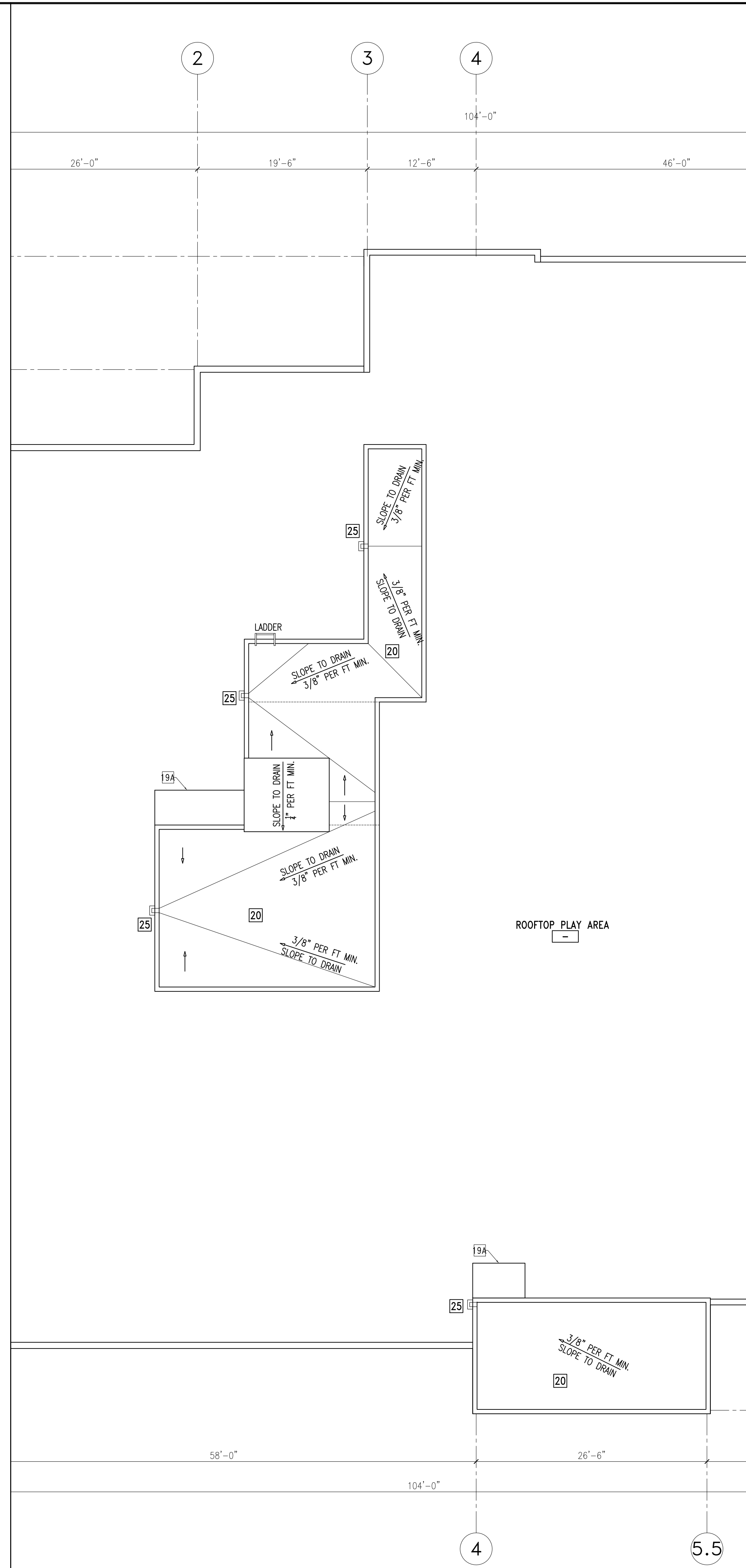
GENERAL NOTES AND CONSTRUCTION PLAN NOTES-SEE A1.1

GENERAL CONSTRUCTION NOTES:

- SEE SEPARATE DISCIPLINE DRAWINGS FOR STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND LANDSCAPING.
- FIRE SPRINKLERS AND FIRE LIFE SAFETY TO BE DESIGN BUILD AND COVERED UNDER SEPARATE PERMIT.
- NEW SPRINKLER SYSTEM TO BE APPROVED BY FIRE DEPARTMENT PRIOR TO INSTALLATION.
- EVERY OPENING IN EVERY EXTERIOR WALL OR ROOF SURFACE SHALL BE FLASHED WITH SHEET METAL OR APPROVED BUILDING PAPER.
- OPENINGS INTO FLOORS, OR OTHER ENCLOSED AREAS SHALL NOT EXCEED 144 SQ. INCH AND SHALL BE COVERED WITH CORROSION RESISTANT WIRE MESH WITH MESH OPENINGS OF 1/4 INCH.
- SEE PLUMBING PLAN FOR CONNECTION FROM ROOF DRAINS AND OVERFLOW DRAINS TO STORMDRAIN SYSTEM.
 D.S. = DOWNSPOUTS
 R.D. = ROOF DRAIN
 O.D. = OVERFLOW DRAIN
 RA = ROOF ACCESS
- SEE PLUMBING PLAN FOR CONNECTION FROM ROOF DRAINS AND OVERFLOW DRAINS TO STORMDRAIN.
- ALL MECH. EQUIPMENT LOCATED ON THE ROOF HAS A MIN. 3'-0" PERIMETER ACCESS AS REQUIRED BY THE LAMC. (1513). SEE PLAN ABOVE.

BUILDING DEPARTMENT NOTES:

- IN BUILDINGS USED FOR OTHER THAN RESIDENTIAL OCCUPANCIES, DRAFT STOPS MUST BE INSTALLED IN WOOD FRAME FLOOR CONSTRUCTION CONTAINING CONCEALED SPACE. SUCH DRAFT STOPS MUST BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED (1000) SQUARE FEET (718.3.3).
- IN BUILDINGS USED FOR OTHER THAN RESIDENTIAL OCCUPANCIES, DRAFT STOPS MUST BE INSTALLED IN THE ATTIC (MANSARDS) (OVERHANGS) (FALSE FRONTS SET OUT FROM WALLS) (SIMILAR CONCEALED SPACES) FORMED BY COMBUSTIBLE CONSTRUCTION. SUCH DRAFT STOPS MUST BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED (3000) SQUARE FEET (718.4.3).
- DRAFT-STOPPING MATERIALS MUST NOT BE LESS THAN 1/2-INCH GYPSUM BOARD, 3/8-INCH PLYWOOD, 3/8-INCH TYPE 2-M PARTICLE BOARD OR OTHER MATERIALS APPROVED BY THE BUILDING DEPARTMENT. DRAFT-STOPPING MUST BE ADEQUATELY SUPPORTED. (718.3.1)
- FIRE BLOCKING MUST BE PROVIDED IN ACCORDANCE WITH SECTION 718.2 AT THE FOLLOWING LOCATIONS:
 - IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS.
 - IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT 10-FOOT INTERVALS ALONG THE LENGTH OF THE WALL.
 - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
 - IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS IF THE WALL UNDER THE STAIRS IS UNFINISHED.
 - IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS, WITH NONCOMBUSTIBLE MATERIALS.



PARTIAL ROOF CONSTRUCTION PLAN
 SCALE: 1/8" = 1'-0"

CA GREEN CODE NOTES

- PRIOR TO PERMIT BEING FINALED, A COMPLETE REPORT OF THE TESTING AND ADJUSTING SHALL BE PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE AND FORM 5.410 - TESTING AND ADJUSTING SHALL BE COMPLETED AND PROVIDED TO THE INSPECTOR. (CAL GREEN 5.410.4)
- PRIOR TO PERMIT BEING FINALED, A COMPLETE REPORT OF THE COMMISSIONING PROCESS SHALL BE PROVIDED TO THE OWNER OR OWNER'S REPRESENTATIVE AND FORM 5.410 - VERIFICATION SHALL BE COMPLETED AND PROVIDED TO THE INSPECTOR. (CAL GREEN 5.410.2)
- IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, PROVIDE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 4, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30 PERCENT, BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS PRIOR TO OCCUPANCY OR AT THE CONCLUSION OF CONSTRUCTION. (CAL GREEN 5.504.1.3)
- AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING, AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTABLE METHODS TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM. (CAL GREEN 5.504.3)
- PROVIDE A COOL ROOF WITH ADEQUATE THERMAL EMITTANCE AND SOLAR REFLECTANCE, OR SRV VALUES IN ACCORDANCE WITH TABLE AS.106.11.2.1. (AS.106.11.2)
- A COPY OF THE CONSTRUCTION DOCUMENTS OR A COMPARABLE DOCUMENT INDICATING THE INFORMATION FROM ENERGY CODE SECTION 110.10(B) THROUGH 110.10(C) SHALL BE PROVIDED TO THE OCCUPANT. (ENERGY CODE 110.10(D))
- AUTOMATIC LANDSCAPE IRRIGATORS SHALL BE INSTALLED IN SUCH A WAY THAT IT DOESN'T SPRAY ON THE BUILDING

SYMBOLS LEGEND

	FINISH FLOOR ELEVATION CHANGE
	SEMI-RECESSED FIRE EXTINGUISHERS SEE SPECIFICATIONS AND DETAIL
	DOOR NUMBER DOOR KEY SEE DOOR SCHEDULE A10.0
	WINDOW KEY SEE WINDOW SCHEDULE A10.1 WINDOW TYPE
	48" x 96" SKYLIGHT; DUAL WALL, WHITE ACRYLIC DOME SKYLIGHT (LARR #2708)
	A/C UNIT, SEE MECH. PLAN

WALL LEGEND

EXTERIOR WALLS 2 HOUR FIRE RATED

PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3

- FURRING WALL CMU WALL-5/8" TYPE 'X' GYP ONE SIDE, EXTERIOR PLASTER TROWL APPLIED. SEE DETAIL (D2.0) AND STRUCT'L DETAIL.
- 2-HR EXTERIOR STUCCO WALL WITH R-19 INSULATION, EXTERIOR PLYWOOD, FIBERGLASS MAT GYP SHEATHING, EXTERIOR PLASTER TROWEL APPLIED, STRUCTURAL PLYWOOD, 2-LAYER GYP. BD INTERIOR SIDE; SEE DETAIL (D2.0) AND STRUCT'L DETAIL. PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
- 2-HR EXTERIOR STUCCO WALL WITH R-19 INSULATION, EXTERIOR PLYWOOD, FIBERGLASS MAT GYP SHEATHING, EXTERIOR PLASTER TROWEL APPLIED, 2-LAYER GYP. BD INTERIOR SIDE; SEE DETAIL (D2.0) AND STRUCT'L DETAIL. PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
- SAME AS 3 EXCEPT WITH CERAMIC TILE INTERIOR SIDE.
- PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3
- 2-HR EXTERIOR STUCCO WALL @ NORTH CANOPY, SEE DETAIL (D2.0)
- PROVIDE FIRE RETARDANT-TREATED WOOD FRAMING COMPLYING WITH SECTION 2303.2, PER SECTION 602.3

INTERIOR WALLS 1 HOUR FIRE RATED PARTITIONS

- 1-HR FIRE-RATED PARTITION/DEMISING SHEAR WALL WITH PLYWOOD ONE (CORRIDOR) SIDE. SEE DETAIL (D2.0) AND SEE STRUCT'L
- 1-HR FIRE-RATED PARTITION AT CORRIDOR WITH STRUCT. PLYWOOD AND 5/8" TYPE 'X' GYP. BD. ONE SIDE (CORRIDOR) AND 5/8" WATER RESISTANT GYP. BD. ON RESTROOM/LANTOR SIDE. SEE DETAIL (D2.0)
- 1-HR FIRE-RATED PARTITION/DEMISING SHEAR WALL WITH PLYWOOD BOTH SIDES. SEE DETAIL (D2.0) AND SEE STRUCT'L
- 1-HR FIRE-RATED SHAFT WALL, SEE DETAIL (D2.0) AND STRUCTURAL

INTERIOR WALLS NON-RATED PARTITIONS

- WOOD STUD DOUBLE PLUMBING WALL
- 5/8" TYPE 'X' WATER RESISTANT GREEN GYP. BD. EXPOSED SIDE, WITH SOUND INSULATION, SEE DETAIL (D2.0)
- STUD WALL AT WET AREA WITH 5/8" WATER RESISTANT GYP. BD. ON EXPOSED SIDE ONLY. SEE DET. (D2.0)
- STUD WALL AT WET AREA
- WOOD STUD WALL FULL HEIGHT WITH SOUND INSULATION WITH 5/8" WATER RESISTANT GYP. BD. BOTH SIDES. SEE DETAIL (D2.0)
- WOOD STUD WALL FULL HEIGHT WITH 5/8" GYP. BOARD BOTH SIDES WITH SOUND INSULATION.
- DEMISING SHEAR WALL, NON-RATED WITH PLYWOOD ON ONE OR BOTH SIDES. SEE STRUCT'L AND (D2.0)

CONSTRUCTION PLAN NOTES

- 1-19A SEE A1.1
- INSTALL A HOSE BIB AT THIS LOCATION. REFER TO PLUMBING ENGINEERING PLANS FOR FURTHER INFO.
- INSTALL NEW FIRE CLASS 'A', 5-PLY, BUILT-UP ROOF. SUPPLY A 20 YEAR MINIMUM WARRANTY
- ROOF DRAINS/OVERFLOW DRAINS. FOR ROOF DRAINS/OVERFLOW DRAINS EXTING THE BUILDING, SEE DETAIL (D2.0) (D1.0) (D1.0)
- INSTALL NEW 48" x 96" SKYLIGHT AS SHOWN, WHITE ACRYLIC DOME (LARR# 2708) SKYLIGHTS SHALL BE DUAL GLAZED SELF FLASHING MOUNTED LEVEL ON NEW WOOD CURBS. SKYLIGHTS SET AT AN ANGLE OF LESS THAN 45 DEGREES FROM THE HORIZONTAL PLANE SHALL BE MOUNTED AT LEAST 4" ABOVE THE PLANE OF THE ROOF ON A CURB CONSTRUCTED AS REQUIRED FOR THE FRAME. GLASS SKYLIGHTS SHALL COMPLY WITH SEC. 2405. PLASTIC SKYLIGHTS SHALL COMPLY WITH SEC. 2610. SEE 17/D1.0
- MECHANICAL PLATFORM-RAISED 12", SLOPE 1/4" PER FT. TO DRAIN, SEE MECHANICAL -TYP.
- 3 1/2" MIN. CONC. SLOPE 1% MIN. OVER W.P. SLOPE 2% MIN. O/ROOF DECKING
- SCUPPER DRAIN AND OVERFLOW 5/A6.8
- LOW WALL-ALCOVE WITH MIN. 7'-0" CEILING
- ADD DIRECTION SIGN: "ROOF ACCESS LADDER"
- CONCRETE ROOF DECK, SEE DETAIL 5/A6.9

ROOF CONSTRUCTION NOTES:

- ROOF TO BE CONSTRUCTED AS A FIVE PLY CLASS A FIRE-RATED BUILT-UP ROOF ASSEMBLY.
- ROOF ASSEMBLY TO BE LISTED BY AN APPROVED TESTING AGENCY.
- ROOF TO CARRY NDL UNLIMITED 20 YEAR WARRANTY.
- INSTALL BUILT-UP ROOFING MEMBRANE SYSTEM ACCORDING TO ROOFING SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPLICABLE RECOMMENDATIONS OF ARMA/NRCA'S "QUALITY CONTROL GUIDELINES FOR THE APPLICATION OF BUILT-UP ROOFING."
- INSTALL FOUR PLY SHEETS STARTING AT LOW POINT OF ROOFING SYSTEM. ALIGN PLY SHEETS WITHOUT STRETCHING. SHINGLE SIDE LAPS OF PLY SHEETS UNIFORMLY TO ACHIEVE REQUIRED NUMBER OF PLYS THROUGHOUT THICKNESS OF ROOFING MEMBRANE. SHINGLE IN DIRECTION TO SHED WATER. EXTEND PLY SHEETS OVER AND TERMINATE BEYOND CANTS.
- GROUP E OCCUPANCIES SHALL BE PROVIDED WITH A FIRE RETARDANT ROOF IN ACCORDANCE WITH BUILDING CODE 1505 AND TABLE 1505.1.
- SIZE THE ROOF DRAINS AND OVERFLOW DRAINS ACCORDING TO THE CHAPTER 11 OF THE LAPC (1503.4) SEE PLUMBING PLAN
- ROOF DRAIN AND OVERFLOW DRAIN MUST BE INDEPENDENT LINES TO STORM DRAIN SYSTEM. SEE PLUMBING PLAN FOR ROOF DRAIN DIAGRAM
- ROOF DRAINAGE IS NOT PERMITTED TO FLOW OVER PUBLIC PROPERTY. REFER TO "ROOF PLAN KEY NOTES" AT LEFT FOR ADDITIONAL INFORMATION.

NEW BUILDING - ROOFING MATERIALS LIST:

CLASS A FIVE PLY FIRE-RATED BUILT-UP ROOF ASSEMBLY:
 MANUF.: CAF MATERIALS CORPORATION

DECK:	PLYWOOD
BASE SHEET:	GAFGLAS #75 BASE SHEET, ASTM D-4601 - (1)LAYER
PLY SHEET:	GAFGLAS FLEX-PLY6, ASTM D-2178 - (3)PLY
SURFACING:	ENERGYCAP BUR, ASTM D-3909 (1)PLY
FLASHING:	RUBEROID MOP SMOOTH, ASTM D-6164
MEMBRANE:	ENERGYCAP BUR, ASTM D-3909 (1)PLY
GUARANTEE:	DIAMOND PLEDGE NDL - 20 YEARS UNLIMITED
WALKWAYS:	WALKWAY PADS: MINERAL-GRAINULE-SURFACED, REINFORCED ASPHALTIC COMPOSITION, SLIP-RESISTING PADS. PAD SIZE: 4X4. CAP SHEET STRIPS: ASTM D 6163 TYPE 1 OR II, GLASS-FIBER-REINFORCED, SBS-MODIFIED, ASPHALT-IMPREGNATED AND COATED WALKWAY SHEET, WITH WHITE COARSE MINERAL-GRAINULE TOP SURFACING AND FINE MINERAL SURFACING ON THE BOTTOM SURFACE.

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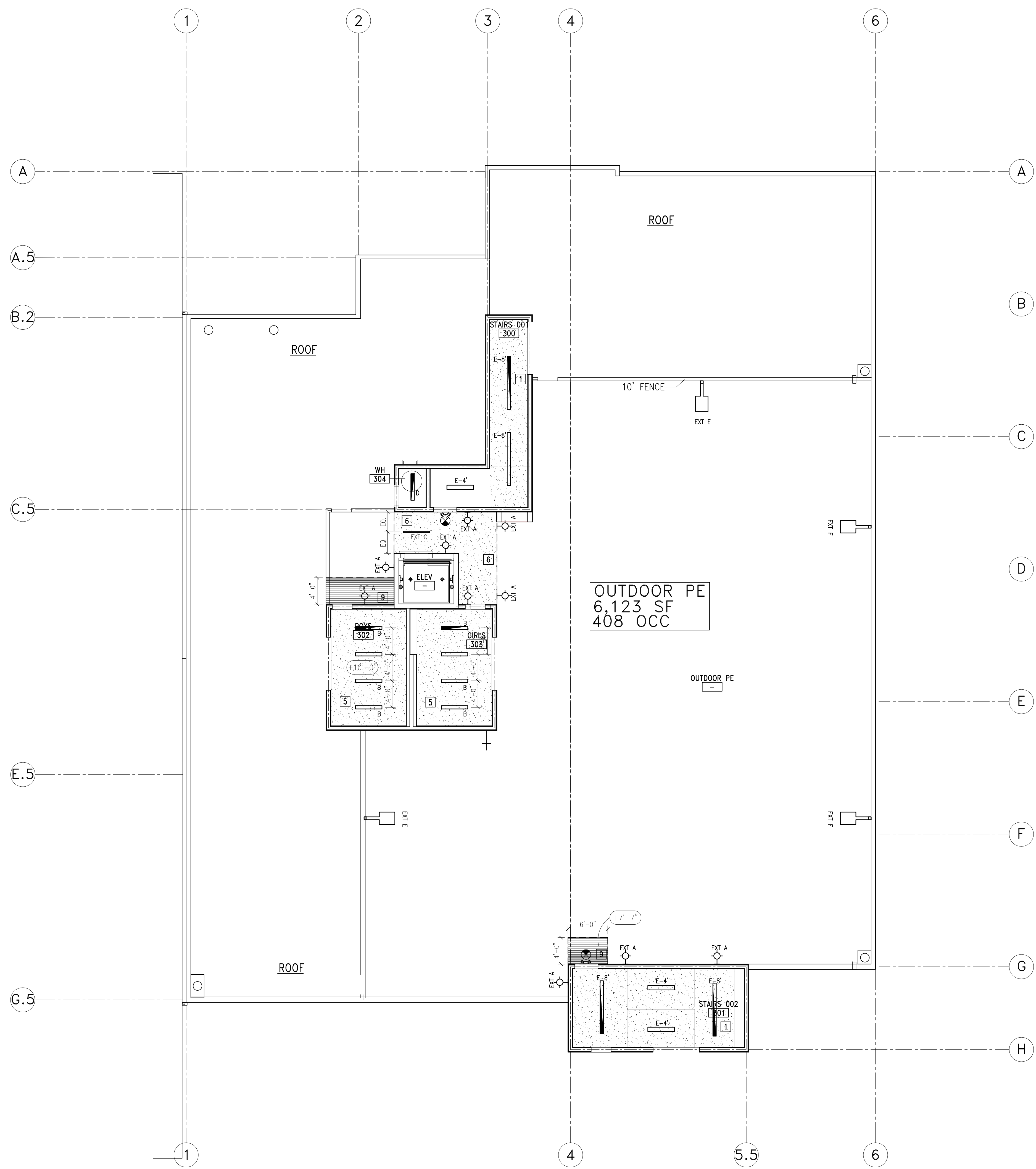
ROOF CONSTRUCTION PLAN

REV	DESCRIPTION	DATE
1	PLAN CHECK #1	6/14/2017
2	PD PLAN CHECK	10/31/2017
3	PD PLAN CHECK	12/14/2017

PROJECT: MAGNOLIA SCIENCE ACADEMY
 PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA91335
 DRAWING TITLE: ROOF CONSTRUCTION PLAN
 DRAWN BY: [Name]
 DATE: 12/14/2017
 JOB NUMBER: [Number]
 DRAWING SCALE: AS NOTED
 SHEET NUMBER: [Number]

BID SET 03-07-18
LEGEND AND NOTES 2

A3.1



THIRD REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES
SEE A1.2

LEGEND

NEW 2'x4' GRID SEE DETAILS (1/04.0) (2/04.0) (3/04.0) (4/04.0) (5/04.0)
TILES:
FINE FISSURED HIGH NRC/CAC

NEW GYP. BD. SOFFIT OR CEILING
REFER TO PLAN FOR CEILING HEIGHTS. SEE DET. (6/04.0)

(X'-X") FINISH CEILING HEIGHT (EX) EXISTING PLASTER CLG. (VIF.)

☑ EXHAUST DUCT, REFER TO MECHANICAL DWGS.
☑ RETURN DUCT, REFER TO MECHANICAL DWGS.
☑ SUPPLY DUCT, REFER TO MECHANICAL DWGS.

FIXTURE SYMBOLS

ISOLIT ELT SERIES CLEAR W/ WHITE TRIM & GREEN LETTERS EXIT LIGHT PER ELEC. PLANS COMPLIANCE WITH BLDG. CODE SEC. 1003.2.8.1. SURFACE MTD.; (L) SELF-ILLUMINATED LOW LEVEL EXIT SIGN PROVIDED CONJUNCTION WITH EXIT SIGNAGE PACKAGE (WHERE SHOWN)
INTERNALLY ILLUMINATED FLOOR LEVEL EXIT SIGN PROVIDED IN ALL INTERIOR CORRIDORS (1011.6)

LED WALL MOUNTED LIGHT; BY WAC LIGHTING
WP-LED335-50-WT

EXTERIOR POLE MOUNTED FIXTURE WITH 1-HEAD; BY DECO LIGHTING
D824-LED-30/28W-50-UNV-LP-T5-PN-SL

EXTERIOR POLE FOR FIXTURE WITH 1-HEAD; BY DECO LIGHTING
DP45-S-12-DM1-SLV

13"x4" SURFACE MOUNTED LED LIGHT FIXTURE; BY LAMAR LIGHTING
VGL SERIES- 48-L-40

4"x8" SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT
SEEM 4 LED; FSM4LS-FL-625LF-1C-UNV-LD1-SM-WH-8"

4"x4" SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT
SEEM 4 LED; FSM4LS-FL-625LF-1C-UNV-LD1-SM-WH-4"

- REFLECTED CEILING PLAN NOTES**
- (2) LAYERS OF 5/8" GYP. BD. APPLIED TO UNDERSIDE OF FRAMING.
1 HOUR FIRE RATING REF. GA FILE NO. FC 5513 AT 1ST FLOOR AND FC 5407 AT ROOF. PAINT EXPOSED GYP. BD. FACE WHICH IS ATTACHED TO THE UNDERSIDE OF FRAMING ABOVE. SEE SHEET "A1.5" FOR PAINT COLOR.
 - DRYWALL SOFFIT AT +8'-0" AFF. WITH RECESSED ROLL-DOWN DOOR. SEE DETAIL (05.0)
 - NOT USED
 - PROVIDE GYP. BD. HEADER AT 10'-0" AFF. SEE SHEET "A1.5" FOR PAINT COLOR.
 - GYP. CLG.
 - STUCCO CANOPY SOFFIT
 - METAL PANEL, SEE SECTION 1/A5.4
 - DRINKING FOUNTAIN ALCOVE. ALCOVE TO HAVE A SUSPENDED GYP. BD. CEILING AT 7'-0" AFF. SEE DETAIL (A8.0)
 - EXPOSED, NO CEILING
 - PRE-FAB CANOPY, BUILT-IN DRAINAGE SYSTEM, SEE 5/A7.0 AND 5A/A7.0

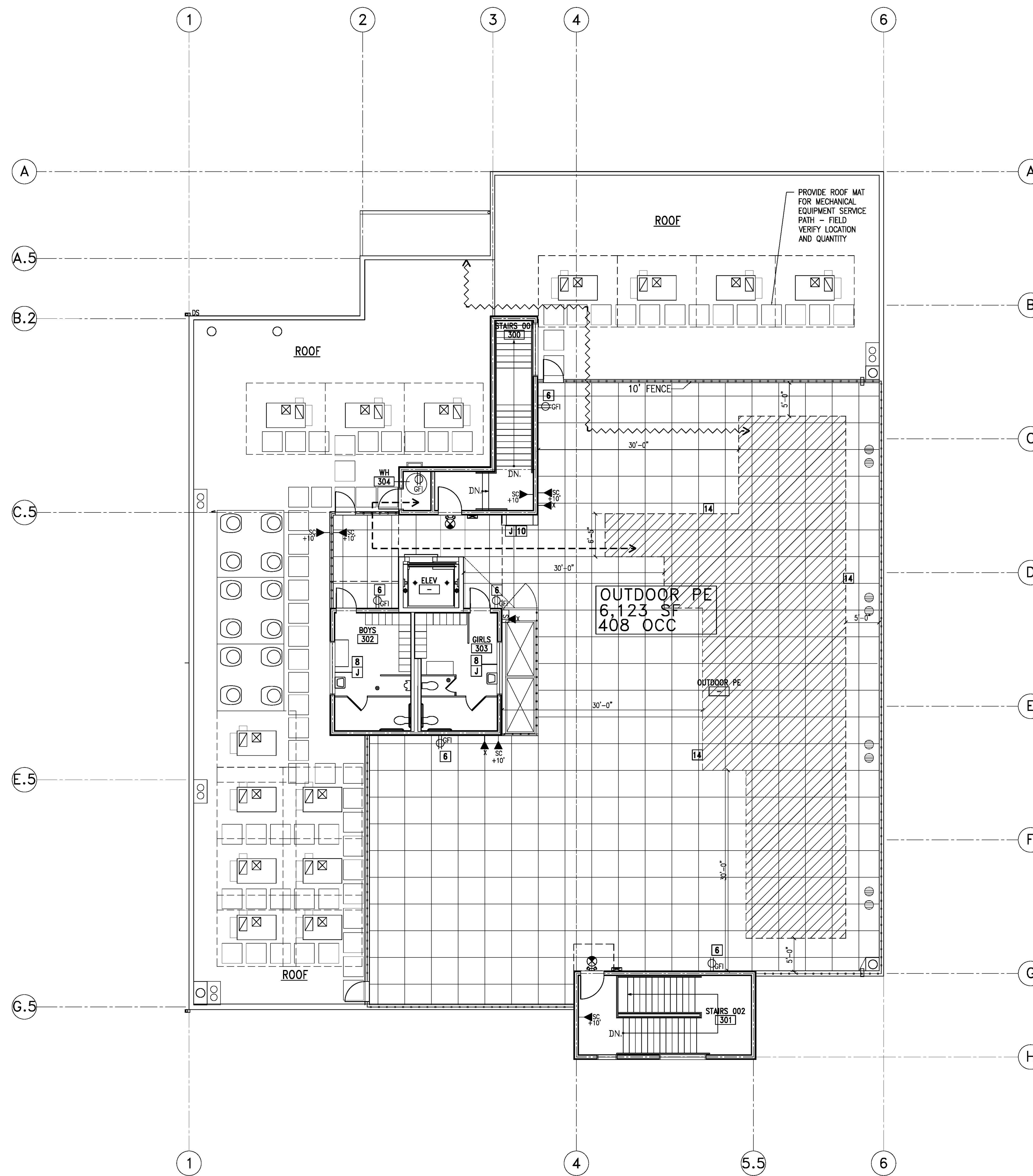
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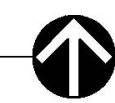
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PROJECT	
MAGNOLIA SCIENCE ACADEMY	
PROJECT ADDRESS 18220 SHERMAN WAY, RESEDA, CA 91335	
DRAWING TITLE ROOF PARTIAL REFLECTED CEILING PLAN	
DRAWN BY	ISSUE DATE
12/14/2017	
JOB NUMBER	DRAWING SCALE
	AS NOTED
APPROVED BY	DRAWING NUMBER



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



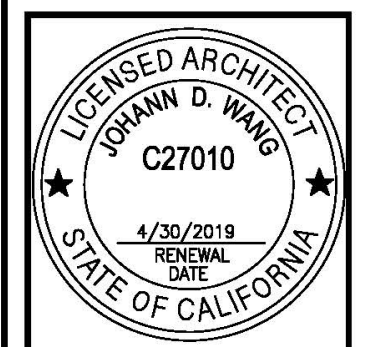
LEGEND

- WALL MOUNTED FOURPLEX POWER OUTLET
 - WALL MOUNTED DUPLEX POWER OUTLET
 - WALL MOUNTED FOURPLEX DATA OUTLET
 - WALL MOUNTED DUPLEX DATA OUTLET
 - SW = CEILING SPEAKER + WIDE AREA ACCESS POINT
SPEAKER BY OTHERS - WIDE AREA ACCESS POINT IN CONDUIT
 - S = CEILING SPEAKER - PAIRED WITH WALL MOUNTED VOLUME CONTROL, LOCATED NEXT TO ENTRANCE DOOR. SPEAKER AND VOLUME CONTROL BY OTHERS. REQUIRES DUPLEX BOX + 1/2" CONDUIT IN WALL
 - VOLUME CONTROL FOR SPEAKERS
 - S = WALL SPEAKER - SPEAKER BY OTHERS - REQUIRES DUPLEX BOX + CONDUIT TO CABLE TRAY (NO SEPARATE VOLUME CONTROL)
 - VA = VIDEO ACCESS BOX - 3/4" CONDUIT TO CABLE TRAY TO OFFICE. NOTE: THESE ENTRANCE DOORS WILL HAVE ELECTRONIC LOCKS, CONTROLS IN OFFICE.
 - W = WIDE AREA ACCESS POINT - BOX AND CONDUIT TO CABLE TRAY
 - TL TEACHER LOCATION - VOIP + DATA QUAD BOX W/ 2EA 1.5" CONDUITS. ONE CONDUIT TO TV LOCATION IN ROOM - ONE CONDUIT TO CABLE TRAY TO MDF. PLUS ADJACENT POWER QUAD BOX, 120V
 - TV TELEVISION/MONITOR LOCATION - TV MOUNTING BRACKET/CABLING BY OTHERS. REQUIRES DATA QUAD BOX WITH 2 CONDUITS LOCATED ABOVE CEILING - ONE 1.5" CONDUIT TO TL AND ONE 3/4" CONDUIT TO CABLE TRAY TO MDF. ALSO NEEDS ABOVE CEILING - DUPLEX POWER 120V
 - QUAD DATA BOX + 3/4" CONDUIT TO CABLE TRAY TO MDF - MOUNT LOW ON WALL OR ABOVE LAB TABLES. CENTER ON WALL - NOTE: LOW WALL DATA BOX UNDER TV IN ADDITION TO ABOVE CEILING DATA BOX SERVING TV
 - Z DUPLEX DATA BOX + 3/4" CONDUIT TO CABLE TRAY TO MDF
 - SC SECURITY CAMERA - EXTERIOR CAMERAS MOUNTED 10 FT ABOVE GRADE AND BELOW CANOPY AND PORCH ROOF - QUAD BOX + 3/4" CONDUIT TO CABLE TRAY TO MDF. CORRIDOR CAMERAS NOT SHOWN; NO CONDUIT REQUIRED.
 - D DEDICATED POWER CIRCUIT
 - GFI- GROUNDED OUTLET
 - X" ABOVE FINISHED FLOOR
 - DOOR BUZZER BY OTHERS- PROVIDE CONDUIT
 - JUNCTION BOX FOR ELECTRICAL POWERED HAND DRYER, 20A CIRCUIT. DRYER SHALL BE AMERICAN DRYER INC. EXTREMEAR EXT-SS.
 - EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM
 - PATHWAY FOR TOUTLING OF PLUMBING FROM THE SOLAR ZONE TO THE WATER-HEATING SYSTEM. (S.211.1, ENERGY CODE 110.10, LAFD REQUIREMENT N096.
 - LOCATION FOR INVERTERS AND METERING EQUIPMENT AND PATHWAY FOR ROUTING FROM SOLAR ZONE TO THE MAIN SERVICE PANEL.
- GENERAL DIRECTION:**
LOW VOLTAGE DEVICES AND WIRING TO BE BY OTHERS. BY OTHERS
DEVICES INCLUDE: MDF EQUIPMENT UPS AND SERVER RACKS, CAT 5-6 WIRING AND HDVY CABLES, COVER PLATES, CEILING AND WALL SPEAKERS, SPEAKER VOLUME CONTROL, TELEVISION MONITORS, TV MOUNTING BRACKETS, INDOOR AND OUTDOOR SECURITY CAMERAS AND MOUNTING BRACKETS, AND VIDEO ACCESS PANELS. DEVICES BY CONTRACTOR INCLUDE: ELECTRONIC DOOR LOCKS AT FRONT AND REAR ENTRANCES.

POWER AND SIGNAL PLAN NOTES

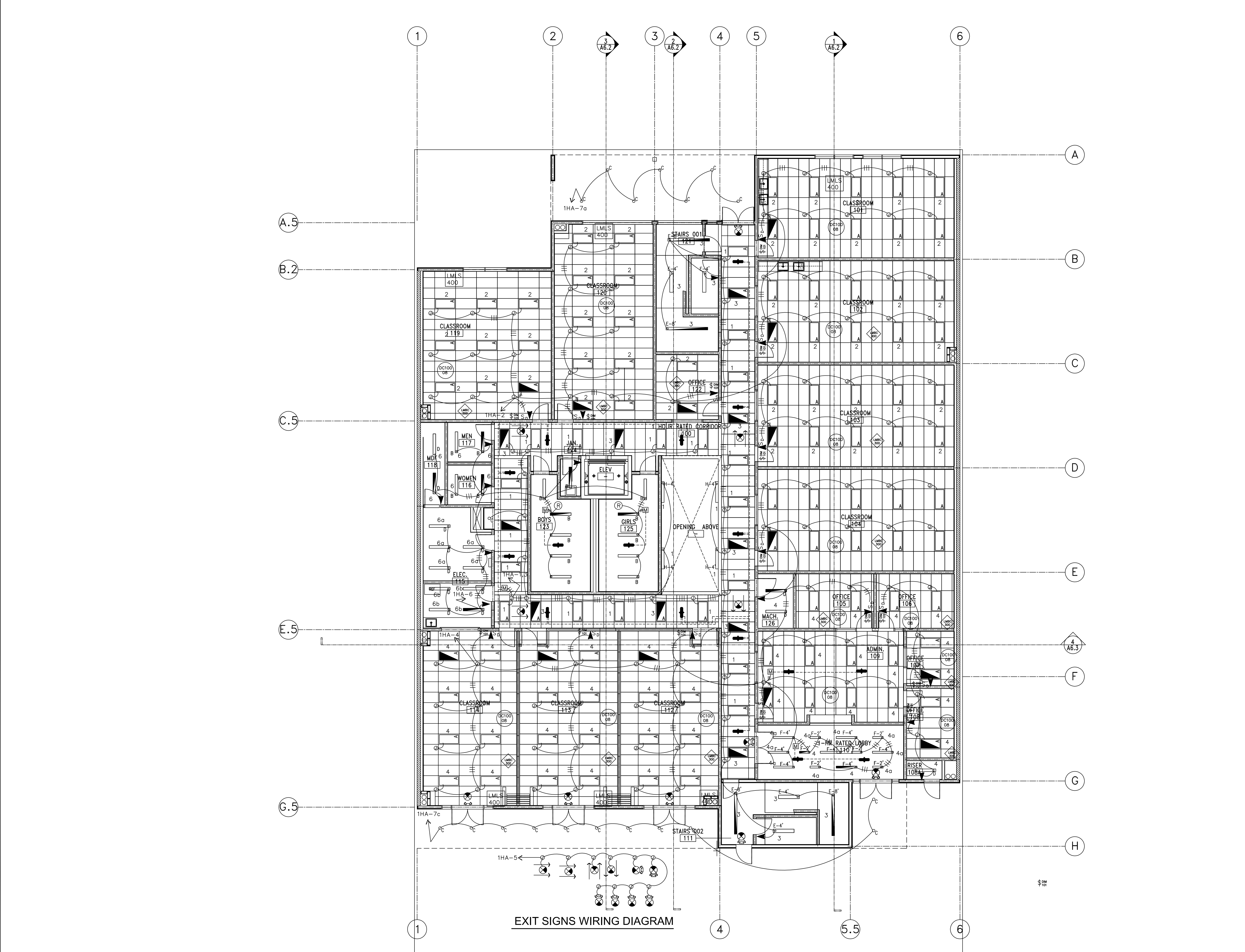
- 1 IN ALL THE CLASSROOMS, AT EACH FOURPLEX OUTLETS PROVIDE A 1-1/2" CONDUIT FOR DATA.
- 2 IN ALL THE CLASSROOMS, PROVIDE A DEDICATED CIRCUIT FOR EVERY TWO FOURPLEX OUTLETS.
- 3 MDF ROOM: PROVIDE 3/4" FIRE TREATED PLYWOOD ON RESTROOM SIDE WALLS; PROVIDE (3) DEDICATED 20A DUPLEX RECEPTACLES, EACH ON A SEPARATE CIRCUIT. A DEDICATED 1.5 TON AC UNIT TO BE PROVIDED FOR THIS ROOM. CONTRACTOR TO COORDINATE AND CONFIRM ELECTRICAL REQUIREMENTS WITH CLIENT'S IT PROVIDER.
- 4 PROVIDE POWER FOR FIRE RATED MOTORIZED ROLL-DOWN COUNTER DOOR PER MANUFACTURER'S RECOMMENDATIONS. SEE COOKSEN MOTOR-OPERATED COUNTER DOOR (OR EQUAL), COLORCOTE FINISH; BETWEEN JAMB MOUNTED; FEATHEREDGE. SEE 105.0.
- 5 LOCATE FIRE ALARM CONTROL PANEL IN ELECTRICAL ROOM
- 6 PROVIDE LOCKABLE COVER PLATES FOR ALL EXTERIOR OUTLETS. WATER PROOF
- 7 PROVIDE POWER FOR INSTA-HOT WATER HEATER AND GARBAGE DISPOSAL. REFER TO PLUMBING PLANS FOR SPECIFICATION.
- 8 ELECTRIC POWERED HAND DRYER.
- 9 NOT USED
- 10 PROVIDE POWER FOR INTERIOR DRINKING FOUNTAIN. REFER TO PLUMBING ENGINEERING DWGS. FOR SPECS.
- 11 PROVIDE DEDICATED ELECTRICAL OUTLET FOR COPIER.
- 12 PROVIDE POWER/CONNECTION FOR HOT WATER HEATER WITHIN JANITOR'S CLOSET. REFER TO PLUMBING ENGINEERING DWGS. FOR SPECS.
- 13 PROVIDE DOOR BUZZER AND COMMUNICATION DEVICE WITH CONDUIT TO MAIN GATE ENTRANCE
- 14 SOLAR ZONE AREA: 1,571 SF (>15% OF 10,300 TOTAL ROOF AREA)

REV	DESCRIPTION	DATE
1	PLAN CHECK #1	6/14/2017
2	PD PLAN CHECK	10/31/2017
3	PD PLAN CHECK	12/14/2017



PROJECT	MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS	18220 SHERMAN WAY, RESEDA, CA 91335
DRAWING TITLE	ROOF POWER & SIGNAL PLAN
DATE	12/14/2017
DESIGNED BY	AS NOTED

BID SET 03-07-18



FIRST REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

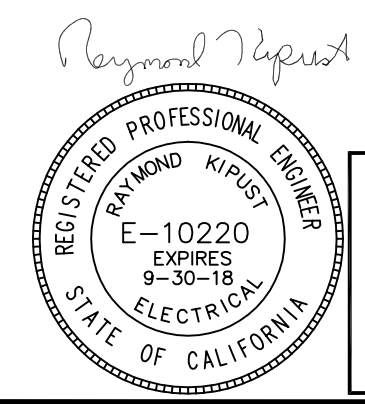
- ### FIXTURE SYMBOLS
- ISOLIT ELT SERIES CLEAR W/ WHITE TRIM & GREEN LETTERS EXIT LIGHT PER ELEC. PLANS COMPLIANCE WITH BLDG. CODE SEC. 1003.2.8.1, SURFACE MTD.; (L) SELF-ILLUMINATED LOW LEVEL EXIT SIGN PROVIDED CONJUNCTION WITH EXIT SIGNAGE PACKAGE (WHERE SHOWN)
 - INTERNALLY ILLUMINATED FLOOR LEVEL EXIT SIGN PROVIDED IN ALL INTERIOR CORRIDORS (1011.6)
 - 2'x4' RECESSED LED LIGHT FIXTURE; BY COOPER LIGHTING EATON, 24AC-LD4-44-UNV-1840
 - 13'x4' SURFACE MOUNTED LED LIGHT FIXTURE; BY LAMAR LIGHTING, VGAL SERIES- 48-L-40
 - 6-INCH RECESSED LED FIXTURE; BY COOPER LIGHTING EATON, HALO COMMERCIAL- PD6-30-D010-PDM6A-835-61V-C
 - 8'x4' SURFACE MOUNTED LED LIGHT FIXTURE; BY COOPER LIGHTING EATON, 4-LED4-40SL-F-UNV-L835-CD-1-U
 - 4'x8' SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT, SEEM 4 LED; FSM4S-FL-625LF-1C-UNV-LD1-SM-WH-8' PROVIDE WITH BUILT-IN OCCUPANCY SENSOR.
 - 4'x4' SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT, SEEM 4 LED; FSM4S-FL-625LF-1C-UNV-LD1-SM-WH-4' PROVIDE WITH BUILT-IN OCCUPANCY SENSOR.
 - 2' SURFACE MOUNTED LED LIGHT FIXTURE; BY FORUM, SAD-34-30-SAT-5-2-120V-WH
 - 4' SURFACE MOUNTED LED LIGHT FIXTURE; BY FORUM, SAD-34-30-SAT-5-4-120V-WH
 - 7'x4' WALL MOUNT LED LIGHT FIXTURE; BY FOCAL POINT, VERVE IV LED- FVALW-FL-625LF-1C-UNV-LD1-WM-WH-4'

TYPE	DESCRIPTION	MANUFACTURER	CAT. NO.	LAMP	VOLTY	LUMENS	WATTS
A	RECESSED TROFFER 2x4 LED	COLUMBIA LTG	LEPC24-40-MW-G-LL-LED-X	LED	UNV	3400	32
B	SURFACE MOUNTED 2x4 LED	COLUMBIA	LCAT14-40-MW-G-ED-X	LED	UNV	2424	28
C	RECESSED LED DOWNLIGHT 6"	PRESCOUTE	LFRMLX6LFLM30L40KXFLU-XCL	LED	UNV	3000	35
D	8x4 SURFACE MOUNTED WRAP LINEAR	COLUMBIA LTG	LW-4-35-M-ED-X	LED	UNV	4582	43
E-X	4x8 SURFACE MOUNTED LED	PRUDENTIAL LTG	P40LED4-8-X-SAL-D1-XXDM10	LED	UNV	3600	36
F	2' LED FIXTURE	PRUDENTIAL LTG	P40LED4L2-2-XSAL-D1-SC-XX-DM10	LED	UNV	600	11
H4	WALL MOUNTED LED FIXTURE	LITECONTROL	13-W-3D-STD-4-SOF-X-40K-800010-1-X	LED	UNV	2500	30.5

- ### SYMBOL LIST WATT STOPPER
- LMBC-300 NETWORK BRIDGE. FOR NETWORKING ROOMS TOGETHER FOR BMS OR DEMAND RESPONSE. L300
 - LM3M-3E SEGMENT MANAGER USED TO RECEIVE COMMUNICATION FROM BMS OR SIGNAL FOR DEMAND RESPONSE. L3E
 - LMRC-211 (1) RELAY ROOM CONTROLLER W/0-10 VOLT DIMMING RELAY ROOM CONTROLLER W/0-10 VOLT DIMMING. L211
 - LMRC-212 (2) RELAY ROOM CONTROLLERS W/0-10 VOLT DIMMING. L212
 - LMRC-213 (3) RELAY ROOM CONTROLLERS W/0-10 VOLT DIMMING. L213
 - LMDC-100 LOW VOLTAGE DIGITAL DUAL TECH CEILING MOUNTED OCC SENSOR. L100
 - LMDW-102 DUAL TECH 2 BUTTON WALL OCCUPANCY SENSOR. L102
 - LMSW-104 DIGITAL 4 BUTTON SWITCH. L104
 - LMLS-400 SINGLE ZONE PHOTO SENSOR. L400
 - LMLS-500 MULTI ZONE PHOTO SENSOR. L500
 - DSW-100 LINE VOLTAGE 1 BUTTON WALL OCCUP SENSOR. D100
 - LMPL-101 PLUG LOAD CONTROLLER RATED 20 AMPS. P101
 - EMERGENCY LIGHTING CONTROL UNIT. ELCU
 - WALL MOUNTED DIMMER SWITCH. D101

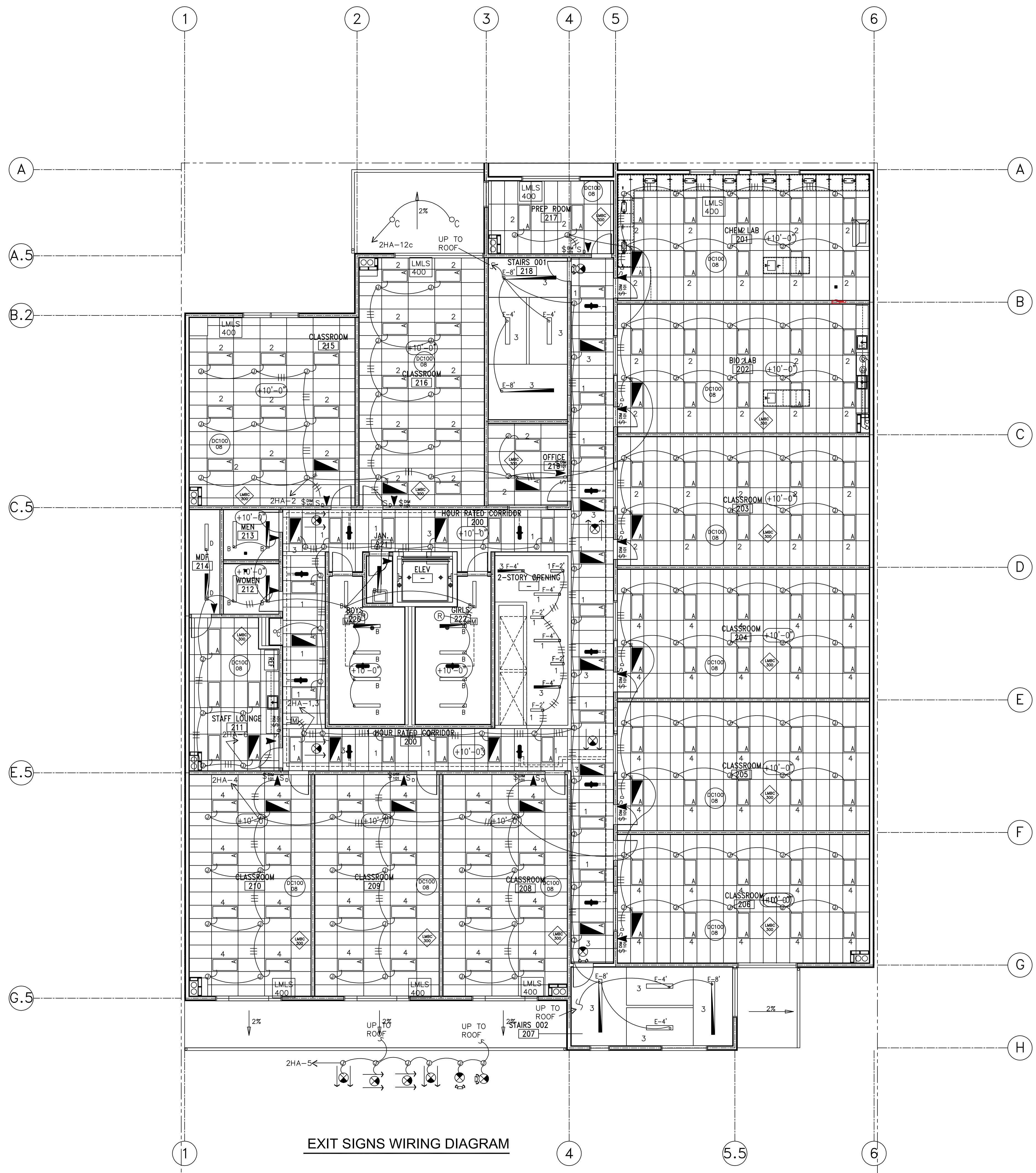
REV	DESCRIPTION	DATE

PROJECT	MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS	18220 SHERMAN WAY, RESEDA, CA 91335
DRAWING TITLE	FIRST FLOOR REFLECTED CEILING PLAN
DRAWN BY	
DATE	2/17/2017
JOB NUMBER	
DRAWING SCALE	AS NOTED
APPROVED BY	
DRAWING NUMBER	



BID SET 03-07-18

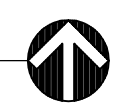
KE KIPUST ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
18081 KILLBUCK ST. SHERMAN OAKS, CA 91401
(818) 780-5354 FAX (818) 780-7036



EXIT SIGNS WIRING DIAGRAM

SECOND REFLECTED CEILING PLAN

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



FIXTURE SYMBOLS

- ISOLIT ELT SERIES CLEAR W/ WHITE TRIM & GREEN LETTERS EXIT LIGHT PER ELEC. PLANS COMPLIANCE WITH BLDG. CODE SEC. 1003.2.8.1. SURFACE MTD.; (L) SELF-ILLUMINATED LOW LEVEL EXIT SIGN PROVIDED CONJUNCTION WITH EXIT SIGNAGE PACKAGE (WHERE SHOWN)
- 2'x4' RECESSED LED LIGHT FIXTURE; BY COOPER LIGHTING EATON 24AC-LD4-44-UNV-L840
- 13"x4' SURFACE MOUNTED LED LIGHT FIXTURE; BY LAMAR LIGHTING V6AL SERIES-48-L-40
- 6-INCH RECESSED LED FIXTURE; BY COOPER LIGHTING EATON HALO COMMERCIAL- PD6-30-D010-PDM6A-835-61V-C
- 8"x4' SURFACE MOUNTED LED LIGHT FIXTURE; BY COOPER LIGHTING EATON 4-LED4-40SL-F-UNV-L835-CD-1-U
- 4"x8' SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT SEEM 4 LED: FSM4LS-FL-625LF-1C-UNV-LD1-SM-WH-8' PROVIDE WITH BUILT-IN OCCUPANCY SENSOR.
- 4"x4' SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT SEEM 4 LED: FSM4LS-FL-625LF-1C-UNV-LD1-SM-WH-4' PROVIDE WITH BUILT-IN OCCUPANCY SENSOR.
- 2'- SURFACE MOUNTED LED LIGHT FIXTURE; BY FORUM SAD-34-50-SAT-S-2-120V-WH
- 4'- SURFACE MOUNTED LED LIGHT FIXTURE; BY FORUM SAD-34-50-SAT-S-4-120V-WH
- 7"x4' WALL MOUNT LED LIGHT FIXTURE; BY FOCAL POINT VERVE IV LED- FV4LW-FL-625LF-1C-UNV-LD1-WM-WH-4'

Mariela Bhatnagar/Prudential Lighting 213-977-1466 mariela@prudential.com

TYPE	DESCRIPTION	MANUFACTURER	CAT NO.	LAMP	VOLT	LUMENS	WATTS
A	RECESSED TROFFER 2'x4' LED	COLUMBIA LITG	LEPC2440-MW-G-LL-ED-X	LED	UNV	3400	32
B	SURFACE MOUNTED 2'x4' LED	COLUMBIA	LCAT1440-MW-G-ED-X	LED	UNV	2424	28
C	RECESSED LED DOWNLIGHT	PRESCULITE	LPRML-X6LF-M30L-40K-F	LED	UNV	3000	35
D	8X4 SURFACE MOUNTED WRAP LINEAR	COLUMBIA LITG	LAW-435MLED-X	LED	UNV	4982	43
E-X	4X8 SURFACE MOUNTED LED	PRUDENTIAL LITG	P48-LED410-8-X-SAL-D1-X-XDM10	LED	UNV	3600	36
F	2' LED FIXTURE	PRUDENTIAL LITG	P48-LED410-3-X-SAL-D1-SC-X-DM10	LED	UNV	900	11
H-4	WALL MOUNTED LED FIXTURE	LITECONTROL	13L-W4D510-4-SOF-X-40K-900D10-1-X	LED	UNV	2500	30.5

SYMBOL LIST

WATT STOPPER

- LMBC-300 NETWORK BRIDGE. FOR NETWORKING ROOMS TOGETHER FOR BMS OR DEMAND RESPONSE. L300
- LMSM-3E SEGMENT MANAGER USED TO RECEIVE COMMUNICATION FROM BMS OR SIGNAL FOR DEMAND RESPONSE L3E
- LMRC-211 (1) RELAY ROOM CONTROLLER W/0-10 VOLT DIMMING RELAY ROOM CONTROLLER W/0-10 VOLT DIMMING. L211
- LMRC-212 (2) RELAY ROOM CONTROLLERS W/0-10 VOLT DIMMING. L212
- LMRC-213 (3) RELAY ROOM CONTROLLERS W/0-10 VOLT DIMMING. L213
- LMDC-100 LOW VOLTAGE DIGITAL DUAL TECH CEILING MOUNTED OCC SENSOR L100
- LMDW-102 DUAL TECH 2 BUTTON WALL OCCUPANCY SENSOR L102
- LMSW-104 DIGITAL 4 BUTTON SWITCH L104
- LMLS-400 SINGLE ZONE PHOTO SENSOR L400
- LMLS-500 MULTI ZONE PHOTO SENSOR L500
- DSW-100 LINE VOLTAGE 1 BUTTON WALL OCCUP SENSOR D100
- L MPL-101 PLUG LOAD CONTROLLER RATED 20 AMPS P101
- EMERGENCY LIGHTING CONTROL UNIT ELCU
- WALL MOUNTED DIMMER SWITCH D101

FRANCO ARCHITECTS INC.
12345 Venture Blvd. H
Studio City, CA 91604
Tel 818 754-2030
Fax 818 754-2032
Architecture and Planning

MAGNOLIA SCIENCE ACADEMY
18220 SHERMAN WAY, RESEDA, CA 91335

REV	DESCRIPTION	DATE

PROJECT: MAGNOLIA SCIENCE ACADEMY

PROJECT ADDRESS: 18220 SHERMAN WAY, RESEDA, CA 91335

DRAWING TITLE: SECOND FLOOR REFLECTED CEILING PLAN

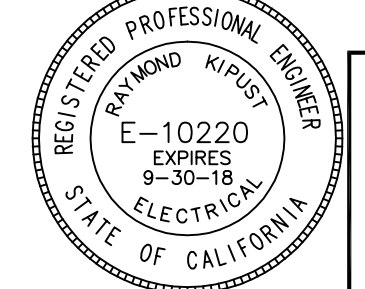
DRAWN BY: [Signature] ISSUE DATE: 2/17/2017

JOB NUMBER: [Number] DRAWING SCALE: AS NOTED

APPROVED BY: [Signature]

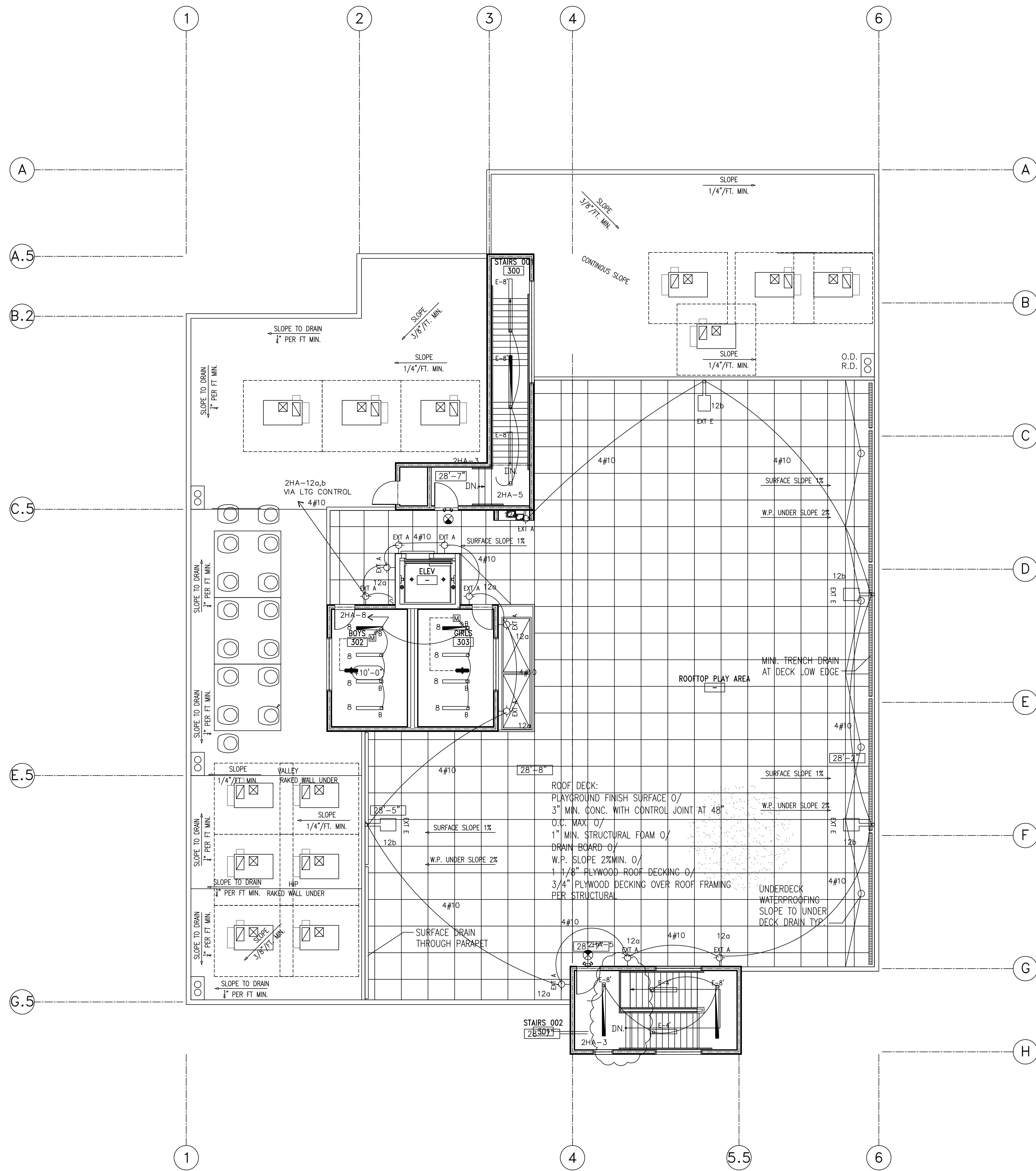
DRAWING NUMBER: E3.2

Regional Report



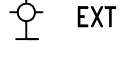
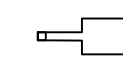

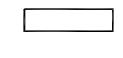
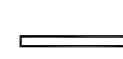



BID SET 03-07-18

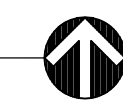
KE KIPUST ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
18931 KILLBUCK ST. SHERMAN OAKS, CA 91401
(818) 780-0354 FAX (818) 780-7036



FIXTURE SYMBOLS

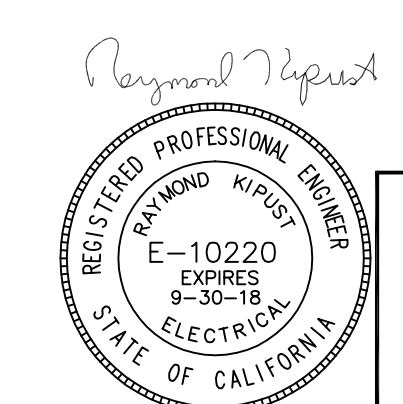
-  ISOLT ELT SERIES CLEAR W/ WHITE TRIM & GREEN LETTERS EXIT LIGHT PER ELEC. PLANS COMPLIANCE WITH BLDG. CODE SEC. 1003.2.8.1. SURFACE MTD.; (L) SELF-ILLUMINATED LOW LEVEL EXIT SIGN PROVIDED CONJUNCTION WITH EXIT SIGNAGE PACKAGE (WHERE SHOWN)
-  INTERNALLY ILLUMINATED FLOOR LEVEL EXIT SIGN PROVIDED IN ALL INTERIOR CORRIDORS (1011.6)
-  EXT A LED WALL MOUNTED LIGHT; BY MAC LIGHTING WP-LED335-50-WT
-  EXT E EXTERIOR POLE MOUNTED FIXTURE WITH 1-HEAD; BY DECO LIGHTING D624-LED-30/28W-50-UNV-LP-15-PM-SL
-  EXTERIOR POLE FOR FIXTURE WITH 1-HEAD; BY DECO LIGHTING DP45-S-12-DM1-SLV
-  B 13"x4" SURFACE MOUNTED LED LIGHT FIXTURE; BY LAMAR LIGHTING VGLA SERIES- 48-L-40
-  E-X 4"x8" SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT SEEM 4 LED: FSMALS-FL-62SLF-1C-UNV-LD1-SM-WH-8"
-  4"x4" SURFACE MOUNT LED LIGHT FIXTURE; BY FOCAL POINT SEEM 4 LED: FSMALS-FL-62SLF-1C-UNV-LD1-SM-WH-4"

THIRD REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



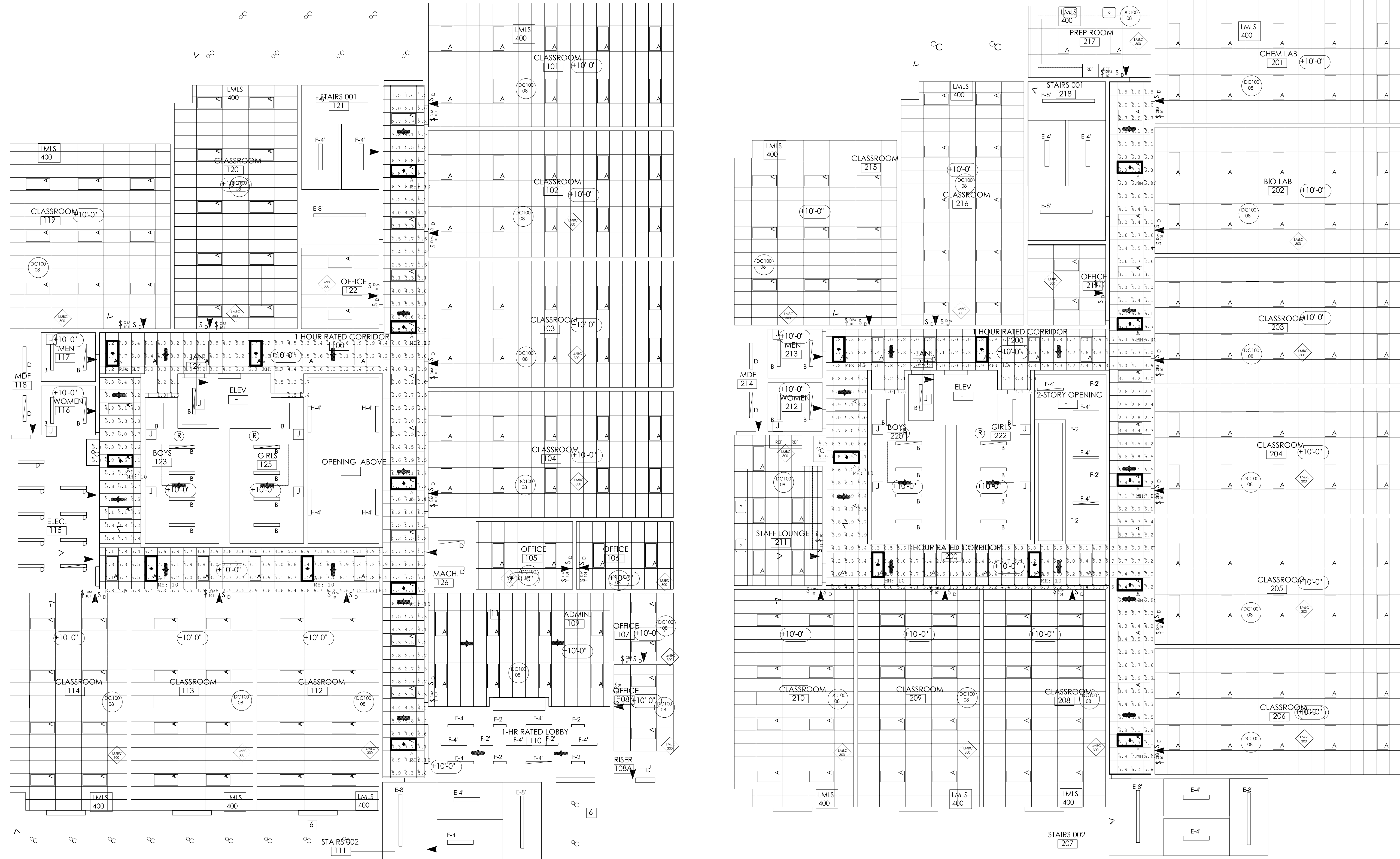
REV	DESCRIPTION	DATE

PROJECT	MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS	18220 SHERMAN WAY, RESEDA, CA 91335
DRAWING TITLE	ROOF PARTIAL REFLECTED CEILING PLAN
DRAWN BY	FORM DATE 2/17/2017
DATE	DRAWING SCALE AS NOTED
APPROVED BY	



BID SET 03-07-18

KE KIPUST ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
13901 KILLOW ST. SHERMAN OAKS, CA 91401
(818) 790-5354 FAX (818) 790-7036



Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
•	20	A	SINGLE	N.A.	0.370	Columbia // LEP024-409M-EW-BLL14

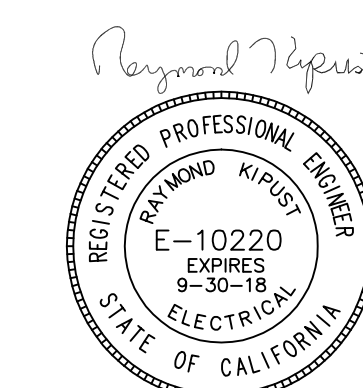
Label	CalcType	Units	AVG	Max	Min	Avg/Min	Max/Min
Corridor_100_Floor	Illuminance	Fc	4.83	7.8	1.0	4.83	7.80
Corridor_200_Floor	Illuminance	Fc	4.77	7.8	1.0	4.77	7.80

Jobname
Magnolia Science Academy_1-30-2018.AGI
Report for: Marina Skirlian
Report by: Ismael Avina / Applications Engineer
Mounting Ht.: See Drawing
See Luminaire Schedule for Light Loss Factor - Unless otherwise specified by customer
Ballastlosses: 80/50/20 - Unless otherwise specified by customer
Date: 1/30/2018

*****Disclaimer*****
Luminaire data is obtained according to IES procedures under controlled laboratory conditions. Field results may differ from computer predictions due to many uncontrollable factors including but not limited to Line Voltage Variations, Lamp Performance, Ballast input watts, LED drivers input watts, Temperature Variations and Jobsite Conditions.

REV	DESCRIPTION	DATE
	PLAN CHECK REVISIONS	10-07-18

PROJECT	MAGNOLIA SCIENCE ACADEMY
PROJECT ADDRESS	18220 SHERMAN WAY, RESEDA, CA 91335
DRAWING TITLE	1ST & 2ND FLOOR EMERGENCY PHOTOMETRIC
DRAWN BY	AS NOTED
CHECKED BY	AS NOTED
DATE	2/17/2017
JOB NUMBER	AS NOTED
DRAWING SCALE	AS NOTED
APPROVED BY:	
DRAWING NUMBER	E6.1



BID SET 03-07-18

KE KIPUST ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
1095 KILBURN ST. SHERMAN OAKS, CA 91401
(818) 760-6864 FAX (818) 760-7036