ADDENDUM NO. 1

To the Contract Documents for:

Menlo Park City School District

Oak Knoll Elementary School

Lighting & Ceiling Upgrades Bid #004-2019-01

April 19, 2019

This addendum shall supersede all previously issued specifications, addenda and drawings. All other conditions remain unchanged. The following clarifications, changes, modifications, corrections and/or additions as set forth herein shall apply to the above documents and shall be made a part thereof and shall be subject to all the requirements thereof as though originally specified and/or shown.

This addendum consists of **1** page, plus attachments.

Attachments:

Bid Announcement: Notice Inviting Bids (2 pages). Project Manual: *(Same notice as above).* Drawing Sheets: Bid Documents (12 pages).

CHANGES TO THE BID ANNOUNCEMENT:

Item No 0.1

Reference:Notice Inviting BidsDescription:**REPLACE** the previous Notice Inviting Bids with the *revised* Notice Inviting Bids
(attached).

CHANGES TO THE PROJECT MANUAL:

Item No 1.1

Reference:Notice Inviting BidsDescription:**REPLACE** the previous Notice Inviting Bids with the *revised* Notice Inviting Bids
(attached).

CHANGES TO THE DRAWINGS:

Item No 2.1 Reference: Entire plan set. Description: REPLACE previous plan set dated 4/11/19 with the attached set dated 4/15/19 (12 pages total, attached).

END OF ADDENDUM #1

NOTICE INVITING BIDS

OAK KNOLL ELEMENTARY SCHOOL LIGHTING & CEILING UPGRADES

Notice is hereby given that the Governing Board of the <u>Menlo Park City School District</u> will receive up to, **but not later than**, <u>April 30, 2019</u>, 3:00 p.m. local time, and will then publicly open and read aloud at the Menlo Park City School District, located at <u>181 Encinal Avenue</u>, <u>Atherton, CA 94027</u> for the following project:

Bid # 004-2019-01 OAK KNOLL ELEMENTARY SCHOOL LIGHTING & CEILING UPGRADES

Removal of existing classroom ceiling tiles and classroom lighting in classrooms. Installation of new LED lighting fixtures, new modified ceilings, and new tack boards. Minor patching and painting may be required as well as adjusting to existing HVAC registers, fire alarm devices, and other items affected by the work. The work is scheduled during the summer break.

Project duration is **54 calendar days** with a start date of <u>June 17, 2019</u> and a completion date of <u>August 9, 2019</u>.

Contractor shall possess at the time of its bid, the following classification(s) of Contractor's California State license: <u>**B** – General Building Contractor</u>

Such bids shall be received at the Menlo Park City School District office located **<u>181 Encinal</u> <u>Avenue, Atherton, CA 94027</u>**.

Plans and specifications will be available on the District website: https://district.mpcsd.org/Page/1075

A <u>mandatory</u> bidders' conference will be held on <u>April 18, 2019</u>, at 3:30 p.m. (or by appointment) at <u>Oak Knoll Elementary School, 1895 Oak Knoll Lane, Menlo Park, CA 94025</u>, for the purpose of acquainting all prospective contractors with the bid documents and the work site.

Each bid must conform and be fully responsive to all documents comprising the Contract Documents.

Each bid shall be made on the Bid Form prepared by the District in the Contract Documents.

Contractor and its subcontractors shall pay all workers on the Project not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for

the type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to sections 1770 et seq. of the California Labor Code. Prevailing wage rates are available from the District or on the Internet at:

<http://www.dir.ca.gov>. Contractor and its subcontractors shall comply with the registration and qualification requirements pursuant to sections 1725.5 and 1771.1 of the California Labor Code.

The substitution of appropriate securities in lieu of retention amounts from progress payments in accordance with Public Contract Code Section 22300 is permitted.

A bid bond by an admitted surety insurer on the form provided by the District, cash, or a cashier's check or a certified check, drawn to the order of the District, in the amount of ten percent (10%) of the total bid price, shall accompany the Bid Form, as a guarantee that the Contractor will, within seven (7) calendar days after the Notice to Proceed or other direction, enter into a contract with the District for the performance of the Services as stipulated in the bid. In addition, a one hundred percent (100%) Performance Bond and a one hundred percent (100%) Payment Bond will be required of the successful bidder.

Each bid must include the name and location of the place of business of each subcontractor who shall perform/work of this Contract in excess of one-half of one percent (1/2 of 1%) of the bid price.

No bid may be withdrawn for a period of sixty (60) days after the date set for the opening for bids except as provided pursuant to Public Contract Code Sections 5100 *et seq*.

The District reserves the right to reject any and all bids and to waive any informalities or irregularities in the bidding.

By:

Chief Business Officer

Menlo Park City School District

DATED: March 25, 2019







Menlo Park City School District 181 Encinal Avenue

Atherton, CA 94027

Oak Knoll Elementary School Lighting Replacement Project No. 1

1895 Oak Knoll Lane Menlo Park, CA 94025



04/15/2019



Alliance Engineering Consultants, Inc. 4701 Patrick Henry Drive, Bldg. 10 Santa Clara, CA 95054 PROJECT NO. 101-17-14

PROJECT TEAM

- THE CONSTRUCTION CONTRACT IS FOR A COMPLETE AND FULLY FUNCTIONING INSTALLATION. THESE DOCUMENTS DESCRIBE THE DESIGN INTENT AND SPECIFIC REQUIREMENTS OF THE INSTALLATION. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. THESE DOCUMENTS ARE NOT MEANT TO SHOW EVERY ITEM REQUIRED TO CONSTRUCT THE WORK. ITEMS SUCH AS BUT NOT LIMITED TO, FASTENERS, CONNECTORS, FILLERS, MISCELLANEOUS CLOSURE ELEMENTS, ANCILLARY CONTROL WIRING AND POWER WHERE REQUIRED FOR THE CONTROL OR OPERATION OF THE PROVIDED EQUIPMENT, ETC. ARE NOT ALWAYS SHOWN BUT ARE CONSIDERED TO BE INCLUDED IN THE SCOPE OF THE WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A FULLY FUNCTIONING INSTALLATION WHICH MEETS THE DESIGN INTENT,
- INCLUDING THE SPECIFIC REQUIREMENTS INCLUDED IN THESE DOCUMENTS. THESE DOCUMENTS DESCRIBE A SINGLE CONSTRUCTION CONTRACT. THE USE OF SUB-CONTRACTORS IS THE ELECTION OF THE GENERAL CONTRACTOR. THE DRAWINGS DO NOT INTEND TO DIVIDE THE WORK AMONG THE SUB-CONTRACTORS. WHERE THE DOCUMENTS IDENTIFY WORK WITH SUCH NOTES AS "NOT IN MECHANICAL WORK" OR "NOT IN ELECTRICAL WORK" OR "SEE STRUCTURAL DRAWINGS," IT MEANS THAT THE WORK IS NOT FURTHER DESCRIBED OR SPECIFIED ON THE DRAWING WHERE SUCH NOTES APPEAR; IT DOES NOT PRECLUDE THE CONTRACTOR FROM DELEGATING THE WORK TO THE ENTITIES OF HIS ELECTION. IN ADDITION, THE DIVISION OF THE CONTRACT DOCUMENTS INTO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL OR OTHER DESIGN DISCIPLINES IS FOR CONVENIENCE ONLY, AND IS NOT INTENDED TO DIVIDE THE WORK AMONG THE CONTRACTOR'S VARIOUS SUB-CONTRACTORS NOR IMPLY THAT ALL OF THE WORK FOR A PARTICULAR TRADE IS SHOWN ONLY IN THOSE DRAWINGS OR SPECIFICATIONS.
- REFERENCE TO "CONTRACTOR" IN THESE DOCUMENTS SHALL BE INTERPRETED AS REFERRING TO THE GENERAL CONTRACTOR OR TO ANY SUB-CONTRACTOR TO THE GENERAL CONTRACTOR, COLLECTIVELY OR AS INDIVIDUAL ENTITIES. FURTHER, REFERENCE TO A PARTICULAR SUB-CONTRACTOR IS FOR CONVENIENCE ONLY, AND IS NOT INTENDED TO LIMIT THE SCOPE OF THE WORK TO THAT TRADE OR LIMIT THE RESPONSIBILITIES OF THE GENERAL CONTRACTOR TO COORDINATE THE WORK OF ALL TRADES. THE DRAWINGS AND PROJECT MANUAL ESTABLISH DETAILED MINIMUM
- REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. PARTIAL OR OUTDATED SETS OF CONTRACT DOCUMENTS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED. ALL WORK IS TO COMPLY WITH ALL GOVERNING FEDERAL, STATE AND LOCAL CODES AND REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FEES FOR ALL PERMITS PRIOR TO STARTING CONSTRUCTION. PERMITS ARE TO BE POSTED IN A CONSPICUOUS PLACE ON THE PROJECT SITE AS REQUIRED BY AUTHORITY
- HAVING JURISDICTION UNLESS SPECIFICALLY NOTED AS BEING RE-USED, ALL MATERIALS FURNISHED AT THE JOB SITE SHALL BE NEW AND FREE FROM DEFECTS, AND SHALL BE STORED AT THE SITE IN SUCH A MANNER AS TO PROTECT THEM FROM DAMAGE. ALL WORK SHALL BE OF BEST PRACTICE OF EACH TRADE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL SUB-CONTRACTORS
- TO REVIEW ALL DRAWINGS, PROJECT MANUAL, ADDENDA, ETC. IN ORDER TO ASSURE COORDINATION OF ALL WORK BY ALL TRADES. FAILURE TO REVIEW AND COORDINATE ALL CONTRACT DOCUMENTS BY THE GENERAL CONTRACTOR WITH THE SUB-CONTRACTORS FOR APPLICABLE PORTIONS OF THE WORK DOES NOT RELIEVE ANY PARTY FROM PERFORMING THE MATERIALS AND WORK REQUIRED FOR A COMPLETE INSTALLATION. THE PROJECT MANUAL WHICH INCLUDES THE GENERAL CONDITIONS,
- SUPPLEMENTAL CONDITIONS AND TECHNICAL SPECIFICATIONS AND THE DRAWINGS ARE COMPLIMENTARY AND TOGETHER DESCRIBE THE PROJECT REQUIREMENTS. WHERE THERE ARE DISCREPANCIES BETWEEN THE PROJECT MANUAL AND THE DRAWINGS, THE CONTRACTOR SHALL ADVISE THE ARCHITECT OF SUCH AND REQUEST CLARIFICATION. IN GENERAL, THE PROJECT MANUAL TAKES PRECEDENCE OVER DRAWINGS. LARGE SCALE DETAILS TAKE PRECEDENCE OVER SMALL SCALE DETAILS.
-). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETELY COORDINATE WORK AS REQUIRED TO MEET THE DESIGN INTENT AS DEFINED BY THE DOCUMENTS. THE CONTRACTOR SHALL LAY OUT AND SEQUENCE THE INSTALLATION OF WORK SO THAT THE DIFFERENT SYSTEMS DO NOT OBSTRUCT INSTALLATION OF SUBSEQUENT WORK. IN GENERAL, SYSTEMS INSTALLED FIRST SHOULD BE AS HIGH AND AS TIGHT TO THE STRUCTURE AS
- POSSIBLE TO ALLOW SPACE FOR SYSTEMS WHICH FOLLOW. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VISIT THE SITE PRIOR TO BIDDING IN ORDER TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND THE IMPACT OF THE PROPOSED WORK INDICATED ON THE DRAWINGS AND SPECIFICATIONS ON THESE CONDITIONS. ANY QUESTIONS REGARDING THE COORDINATION OF NEW WORK WITH EXISTING CONDITIONS MUST BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO THE BID SUBMISSION AND WITH ADEQUATE TIME FOR RESPONSE TO ALL BIDDERS. THE ARCHITECT WILL RESPOND TO TIMELY QUESTIONS WITH A WRITTEN RESPONSE TO ALL BIDDERS.
- 12. ALL WORK NOTED "NIC" IS NOT IN CONTRACT. CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS PER REQUIREMENT ESTABLISHED BY OWNER. 13. THE EXISTING DIMENSIONS AND CONDITIONS INDICATED IN THESE DOCUMENTS ARE FROM ELECTRONIC CAD INFORMATION PROVIDED BY THE OWNER AND ARE ASSUMED TO BE ACCURATE AS SHOWN. THE CONTRACTOR SHALL VERIFY
- THE ACCURACY OF SUCH INFORMATION PRIOR TO THE START OF CONSTRUCTION, AND ADVISE THE ARCHITECT OF ANY DEVIATIONS OR CONFLICTS WITH THE INFORMATION SHOWN ON THE DRAWINGS. 14. DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR SHALL REFER TO THE DIMENSIONS INDICATED OR THE ACTUAL SIZES OF CONSTRUCTION ITEMS. WHERE NO DIMENSION OR METHODS OF DETERMINING A LOCATION EXISTS.
- VERIFY DIMENSION WITH ARCHITECT PRIOR TO LAYOUT AND INSTALLATION. 15. THE DRAWINGS AND REFERENCED DETAILS HAVE BEEN DIMENSIONED IN ORDER TO ESTABLISH THE CONTROL AND GUIDELINES FOR FIELD LAYOUT. WHERE DISCREPANCIES EXIST BETWEEN THE DRAWINGS AND FIELD CONDITIONS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF SUCH PRIOR TO LAYOUT AND INSTALLATION. 16. DIMENSIONS ON DOCUMENTS ARE TO FACE OF STUDS FOR NEW
- CONSTRUCTION AND TO FACE OF FINISH MATERIALS FOR EXISTING CONSTRUCTION, UNLESS OTHERWISE INDICATED. 7. WHERE DIMENSIONS INDICATED ARE NOTED AS VERIFY IN FIELD (VIF) THE
- DIMENSION SHOWN IS THE BASIS OF DESIGN, BUT MAY DIFFER FROM ACTUAL CONDITIONS. CONTRACTOR SHALL VERIFY THESE DIMENSIONS WHILE LAYING OUT THE WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING. WHERE DIMENSIONS ARE NOTED AS "+/-" FIELD DIMENSIONS MAY VARY FROM THE NOTED DIMENSIONS BY MINOR AMOUNTS. DISCREPANCIES OF MORE THAN 1" SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CONFIRMATION. 18. DETAILS ARE KEYED TO THE PLANS AT TYPICAL LOCATIONS. TYPICAL DETAILS
- APPLY TO ALL LOCATIONS WHICH ARE SIMILAR BUT ARE NOT NECESSARILY KEYED TO EVERY LOCATION TO WHICH THEY APPLY. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LOCATION OF ALL TYPICAL DETAILS AND INSTALL THE WORK INDICATED. FEATURES NOT SHOWN IN THEIR ENTIRETY SHALL BE COMPLETELY PROVIDED AS IF SHOWN IN FULL. IF DISCREPANCIES EXIST, CONTRACTOR IS TO REQUEST CLARIFICATION BY THE ARCHITECT OF SUCH CONDITIONS.
- 19. FINISH FLOOR ELEVATIONS REFER TO TOP OF CONCRETE SLAB, UNLESS NOTED OTHERWISE. WHERE CONCRETE SLAB IS DEPRESSED TO ACCOMMODATE SETTING BEDS, RAISED ACCESS FLOOR, OR OTHER SIMILAR FLOOR ASSEMBLIES, FINISH FLOOR ELEVATIONS ARE TO TOP OF FINISH FLOOR ASSEMBLY INDICATED 20. FIRE RATING "TAPES" INDICATED ON FLOOR PLANS SHOW EXTENT OF FIRE
- RATED PARTITIONS, BARRIERS AND FIRE WALLS. RATING IN A PARTITION SHALL BE CONTINUOUS AND SHALL CONTINUE OVER DOORS AND WINDOWS WHETHER OR NOT THEY ARE SHOWN AS SUCH ON THE PLANS. REFER TO PARTITION DETAILS FOR REQUIREMENTS OF THE RATED ASSEMBLIES. . VERIFY AND COORDINATE SIZES, LOCATION AND MOUNTING REQUIREMENTS OF ALL EQUIPMENT AND FIXTURES. IT IS THE CONTRACTOR'S RESPONSIBILITY
- TO PROVIDE REQUIRED BLOCKING, BACKING, SLEEVES, ETC. FOR A COMPLETE, NEAT INSTALLATION. COORDINATE INSTALLATION OF ALL SLEEVES AND OPENINGS AS REQUIRED THROUGH ALL EXISTING OR NEW CONSTRUCTION. 22. DETAILS INDICATE DESIGN INTENT OF WORK IN PLACE. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS OR DIMENSIONS AND ARE TO BE
- INCLUDED AS PART OF THE WORK. 23. PROVIDE PROTECTION FOR PEDESTRIANS OR USERS OF ADJACENT AREAS OF THE BUILDING AS NECESSARY AND AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- 24. MAINTAIN THE PREMISES CLEAN AND FREE OF TRASH AND DEBRIS. PROTECT PROJECT, THE SITE, AND PERSONAL PROPERTY FROM DAMAGES. 25. PROTECT WORK AREAS AND EXISTING ADJACENT AREAS, INCLUDING EXISTING UTILITIES, FROM DAMAGE. REPAIR, REPLACE, OR PATCH ANY DAMAGE DUE TO CONSTRUCTION. REPAIRED CONSTRUCTION IS SUBJECT TO REVIEW AND ACCEPTANCE BY ARCHITECT.
- 26. PROVIDE REQUIRED TEMPORARY UTILITIES, BRACING, SUPPORTS, SHORING, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN ADEQUACY AND SAFETY OF ERECTION. 27. CONTRACTOR SHALL MAINTAIN CURRENT UPDATED RECORD DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIME.
- 28. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO SITE SAFETY AND SECURITY FOR WORKERS AND GENERAL MEMBERS OF THE PUBLIC. 29. METAL FABRICATIONS AND SUPPORT ASSEMBLIES WHETHER SHOWN OR NOT SHALL BE PROVIDED FOR THE STRUCTURAL SUPPORT OF MISCELLANEOUS ELEMENTS. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ENGINEERED STRUCTURAL ASSEMBLIES AND CALCULATIONS SHOWING COMPLIANCE WITH CODE REQUIREMENTS AND ACCOUNTING FOR STATIC AND DYNAMIC LOADS INCLUDING ANY WIND OR SEISMIC LOADS, THERMAL MOVEMENT OF SUPPORTING STRUCTURE AND DIMENSIONAL TOLERANCES OF THE BUILDING.
- 30. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE BEST POSSIBLE INSTALLATION OF ALL TOILET ROOM ACCESSORIES AND PARTITIONS AND ALL WALL MOUNTED OR SUSPENDED MECHANICAL. ELECTRICAL OR MISCELLANEOUS EQUIPMENT.
- 31. PIPE SLEEVES IN MECHANICAL EQUIPMENT ROOMS EXTEND 2" ABOVE THE FLOOR LINE. FILL THE ANNULAR SPACES OF PIPE SLEEVES THROUGH THE FLOOR OR THROUGH RATED WALLS WITH FIRE SAFING AND SMOKE SEAL COMPOUND AS INDICATED ON THE SPECIFICATION, AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. PROVIDE APPROVED RATED FIRE DAMPERS FOR ALL DUCTS PENETRATING FIRE RATED WALLS. FIRE DAMPER ASSEMBLIES, INCLUDING SLEEVES AND INSTALLATION PROCEDURES MUST BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO INSTALLATION. WHEREVER POSSIBLE, MANUAL RESET LEVER FOR THE FIRE DAMPER MUST BE PLACED ON NON-PUBLIC OR LAY-IN CEILING SIDE OF THE RATED WALL.
- 32. SIZES OF MECHANICAL EQUIPMENT PADS AND BASES SHOWN ON PLAN ARE APPROXIMATE, CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL PADS AND BASES WITH THE APPROPRIATE EQUIPMENT MANUFACTURERS. CONTRACTOR SHALL COORDINATE MOUNTINGS WITH APPROPRIATE EQUIPMENT MANUFACTURERS. PADS AND BASES SHALL BE INDICATED ON SUBMITTALS AND BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO LAY-OUT OF REINFORCING STEEL OR STEEL DECK.
- 33. PROVIDE ACCESS PANELS FOR MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED BY APPLICABLE CODES. ALL ACCESS PANELS IN GYP BOARD SHALL BE CONCEALED, MUD-IN TYPE. ELECTRICAL J-BOXES, PLUMBING CLEANOUTS, FIRE DAMPERS AND OTHER SIMILAR ITEMS REQUIRING ACCESS ARE NOT TO BE LOCATED ABOVE GYPSUM BOARD OR SIMILAR NON-ACCESSIBLE CEILING.

APPLICABLE CODES

- 2016 CALIFORNIA ADMINISTRATIVE CODE. ...(CAC) (PART 1, TITLE 24, CCR)
- 2016 CALIFORNIA BUILDING CODE (CBC) VOLUMES 1 & 2..........(PART 2, TITLE 24, CCR) (2015 EDITION INTERNATIONAL BUILDING CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ELECTRICAL CODE (CEC)... (2014 EDITION NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA MECHANICAL CODE (CMC).... (2015 EDITION IAPMO UNIFORM MECHANICAL CODE WIT`H 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA PLUMBING CODE (CPC).... ..(PART 5, TITLE 24, CCR) (2015 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA ENERGY CODE... 2016 CALIFORNIA FIRE CODE (CFC)...
- (2015 EDITION OF INTERNATIONAL FIRE CODE WITH 2016 CALIFORNIA ADMENDMENTS) 2016 CALIFORNIA EXISTING BUILDING CODE (CEBC).....(PART 10, TITLE 24, CCR) (2015 EDITION OF INTERNATIONAL EXISTING BUILDING CODE WITH 2016 CALIFORNIA AMENDMENTS)
- 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE(PART 11, TITLE 24, CCR)
-(PART 12, TITLE 24, CCR) 2016 CALIFORNIA REFERENCE STANDARDS CODE...... • TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- (2016 EDITION CA AMENDED) • NFPA 72 - 2016 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)
- NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES (2016 EDITION)
- UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES (2003 EDITION)
- UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (1999 EDITION)
- UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED (2002 EDITION)
- REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

ABBREVIATIONS NOTE: NOT ALL ABBREVIATIONS MAY BE USED IN THIS PROJECT F./FREEZER N./NORTH A.B./ANCHOR BOLT F.A./FIRE ALARM (N)/NEW ABV./ABOVE A.C./ASPHALTIC CONCRETE F.A.F./FORCED AIR FURNACE N/A/NOT APPLICABLE A.C.T./ACOUSTICAL CEILING TILE F.D./FLOOR DRAIN N.E./NORTHEAST A/C/AIR CONDITIONING FND./FOUNDATION N.I.C./NOT IN CONTRACT F.E./FIRE EXTINGUISHER ACOUS./ACOUSTICAL NO./NUMBER F.E.C./FIRE EXTINGUISHER & CABINET A.D./AREA DRAIN NOM./NOMINAL FED./FEDERAL N.T.S./NOT TO SCALE ADMIN./ADMINISTRATION ADJ./ADJUSTABLE F.V./FIELD VERIFY N.W./NORTHWEST A.F.F./ABOVE FINISHED FLOOR F.F./FINISH FLOOR OBS./OBSCURE F.H.C./FIRE HOSE CABINET AGGR./AGGREGRATE O.C./ON CENTER FIN./FINISH AL./ALUMINUM FIX./FIXTURE ALT./ALTERNATE O.D./OUTSIDE DIAMETER or A.P./ACCESS PANEL F.L./FLOW LINE DIMENSION FLR./FLOOR O.F.C.I./OWNER FURNISHED, APP/APPLICATION APPROX./APPROXIMATE FLUOR./FLUORESCENT CONTRACTOR INSTALLED F.O./FACE OF O.F.D./OVERFLOW DRAIN ARCH./ARCHITECTURAL F.O.C./FACE OF CONCRETE ASPH./ASPHALT O.F.S./OVERFLOW SCUPPER F.O.F./FACE OF FINISH O.H./OVER HEAD ATTEN./ATTENUATING F.O.M./FACE OF MASONRY OPNG./OPENING BD./BOARD F.O.S./FACE OF STUD OPP. HD./ OPPOSITE HAND BET./BETWEEN F.O.W./FACE OF WALL OZ./OUNCE **B.F./BRACED FRAME** FPRF./FIREPROOF(ING) P.A./PLANTING AREA BLDG./BUILDING FRM'G/FRAMING F.R.T./FIRE RETARDANT TREATED BLK./BLOCKING P.B./PANIC BAR P.C.P./PRECAST CONCRETE F.R.P./FIBERGLASS REINFORCED BM./BEAM BOT./BOTTOM POLYESTER PANEL F.S./FLOOR SINK PERIM./PERIMETER CAB./CABINET F.S.E./FOOD SERVICE EQIPMENT PL./PLATE C/C/CENTER TO CENTER FT./FOOT OR FEET PL .G./PLATE GLASS CEM./CEMENT FTG./FOOTING P.LAM./PLASTIC LAMINATE CER./CERAMIC FURR./FURRING PLAS./PLASTER FUT./FUTURE PLBG./PLUMBING C.F./CUBIC FEET CH./CHANNEL PLYWD./PLYWOOD GA./GAUGE C.I./CAST IRON PNL./PANEL C.J./CONTROL JOINT GALV./GALVANIZED PR./PAIR G.L.B./GLUE- LAMINATED (WOOD) BEAM PREP./PREPARATION C.L./CENTERLINE P.S.F./POUNDS PER SQUARE FOOT CLG./CEILING GL /GLASS CLKG./CAULKING GND./GROUND P.S.I./POUNDS PER SQUARE INCH P.T./PRESSURE TREATED CLO./CLOSET G.R.G./GLASS REINFORCED CLR./CLEAR PT./POINT GYPSUM C.M.U./CONCRETE MASONRY UNIT G.S.M./GALVANIZED SHEET P.T.D./PAPER TOWEL DISPENSER COL./COLUMN PTN./PARTITION METAL COMP./COMPUTER GYP./GYPSUM PVC/POLYVINYL CHLORIDE G.W.B./GYPSUM WALL BOARD PVMT./PAVEMENT CONC./CONCRETE CONF./CONFERENCE H.B./HOSE BIBB **R./RISER OR REFRIGERATOR** CONT./CONTINUOUS CONTR./CONTRACTOR H.C./HOLLOW CORE HDWR./HARDWARE (R)/REMOVE CONST./CONSTRUCTION HDWD./HARDWOOD **R.A./RETURN AIR** CORR./CORRIDOR HT./HEIGHT RAD./RADIUS H.M./HOLLOW METAL R.B./RUBBER BASE CPT./CARPET R.C.P./REFLECTED CEILING PLAN C.R./COLD-ROLLED HORIZ./HORIZONTAL CSMT./CASEMENT H.P./HIGH POINT R.D./ROOF DRAIN C.T./CERAMIC TILE HVAC/HEATING, VENTILATING, REF./REFERENCE CTR./CENTER AIR CONDITIONING **REFR./REFRIGERATION** CTSK./COUNTERSUNK REINF./REINFORCED I.D./INSIDE DIAMETER C.Y./CUBIC YARDS REQD./REQUIRED **REV./REVISION OR REVISED** IN /INCH INCAND./INCANDESCENT D./DRYER RESIL./RESILIENT DBL./DOUBLE INCR./INCREMENT R.H./RIGHT HAND RM./ROOM DECK./DECKING INFO./INFORMATION DEG./DEGREE INSUL./INSULATION **R.O./ROUGH OPENING** DEMO./DEMOLITION INT./INTERIOR RWD./REDWOOD R.W.L./RAINWATER LEADER DEPT./DEPARTMENT JAN./JANITOR DET./DETAIL D.F./DRINKING FOUNTAIN JST./JOIST S./SOUTH DIA./DIAMETER JT./JOINT S.A./SUPPLY AIR S.B./SCOREBOARD DIM./DIMENSION KIT./KITCHEN DIR./DIRECTION DIST./DISTRIBUTION K.P./KICK PL DIV./DIVISION LAB./LABORATORY DN./DOWN DR./DOOR LAM./LAMINATE D.S./DOWNSPOUT LAV./LAVATORY LB./POUND D.S.A./ DIVISION OF STATE ARCHITECT D.S.P./DRY STAND PIPE L.F./LINEAR FEET L.H./LEFT HAND DWG./DRAWING LIN./LINEAR E /EAST LKR./LOCKER L.L.H./LONG LEG HORIZONTAL (E)/EXISTING L.P./LOW POINT EA./EACH LT./LIGHT E.J./EXPANSION JOINT EL./ELEVATION LVR./LOUVER ELAS./ELASTOMERIC MACH./MACHINE ELEC./ELECTRICAL MAINT./MAINTENANCE ELEV./ELEVATOR MATL./MATERIAL EMER./EMERGENCY ENCL./ENCLOSURE MAS./MASONRY MAX./MAXIMUM ENGR./ENGINEER M.B./MARKER BOARD or EQ./EQUAL EQUIP./EQUIPMENT MACHINE BOLT M.C./MEDICINE CABINET E.S./EACH SIDE MECH./MECHANICAL EXP./EXPANSION MEMB./MEMBRANE EXH./EXHAUST EXIST./EXISTING MET./METAL

MFR./MANUFACTURER

MISC./MISCELLANEOUS

M.O./MASONRY OPENING

MIN./MINIMUM

MTD./MOUNTED

MIR./MIRROR

MK./MARK

MTL./METAL

MUL./MULLION

EXT./EXTERIOR

E.W./EACH WAY

PROJECT DIRECTORY

.(PART 3, TITLE 24, CCR)

..(PART 4, TITLE 24, CCR)

.(PART 6, TITLE 24, CCR) ..(PART 9, TITLE 24, CCR)

MENLO PARK CITY SCHOOL DISTRICT 181 ENCINAL AVE. ATHERTON, CA 94027

ARCHITECT

650.321.7140

417 MONTGOMERY STREET, SUITE 400 SAN FRANCISCO, CA 94104 415.981.2345

ELECTRICAL

ALLIANCE ENGINEERING CONSULTANTS 4701 PATRICK HENRY DRIVE, BUILDING 10 SANTA CLARA, CA 95054

DRAWINGLIST

#	NAME	ISSUED FOR		
G-000	COVER SHEET			
GENERA	L			
G-001	GENERAL INFORMATION			
G-011	SITE PLAN & CODE ANALYSIS			
ARCHITE	CTURAL			
AD-101	DEMOLITION CEILING PLAN AND SECTIONS			
A-101	IMPROVEMENT CEILING PLAN, BLDG. SECTIONS AND DETAILS			
A-571	DETAILS SUSPENDED CEILING ASSEMBLY TYPICAL			
A-572	DETAILS SUSPENDED CEILING ASSEMBLY TYPICAL - PART B			
ELECTRI	CAL			
E0.1	GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING INDEX			
E0.2	CERTIFICATE OF COMPLIANCE TITLE 24			
E1.1	ELECTRICAL DEMOLITION PLAN			
E2.1	ELECTRICAL PLAN (BASE BID)			
E3.1 ELECTRICAL DETAILS				

S.C./SOLID CORE S.C.D./SEE CIVIL DRAWINGS SCHED./SCHEDULE S.D./STORM DRAIN S.D.S./SEE DOOR SCHEDULE S.E./SOUTHEAST S.E.D./SEE ELECTRICAL DRAWINGS SECT./SECTION S.F./SQUARE FOOT (FEET) S.F.S./SEE (ROOM) FINISH SCHEDULE S.G.S./SEE GLAZING SCHEDULE SHT./SHEET SHTG./SHEATHING SIM./SIMILAR S.L.D./SEE LANDSCAPE DRAWINGS S.M./SHEET METAL SL /SLOPE

> SMACNA /SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION S.M.D./SEE MECHANICAL DRAWINGS S.M.S/SHEET METAL SCREW S.N.D./SANITARY NAPKIN DISPENSER S.N.R./SANITARY NAPKIN RECEPTACLE S.O.G./SLAB ON GRADE S.P.D./SEE PLUMBING DRAWINGS SPEC./SPECIFICATION SPR/SPRINKLERED S.P.S./SEE PARTITION SCHEDULE SQ./SQUARE S.S.D./SEE STRUCTURAL DRAWINGS

STD./STANDARD STL./STEEL STRL./STRUCTURAL S4S/SURFACE FOUR SIDES S2S/SURFACE TWO SIDES S.S./STAINLESS STEEL

SVC/SERVICE STOR /STORAGE SUSP./SUSPENDED S.W./SOUTHWEST S.W.S./SEE WINDOW SCHEDULE SYM./SYMMETRICAL

T./TREAD T.B./TACKBOARD TECH./TECHNOLOGY TELE./TELEPHONE TEMP./TEMPERED OR TEMPERATURE TER./TERRAZZO T & G/TONGUE & GROOVE THK./THICK THRES./THRESHOLD T.O./TOP OF T.O.C./TOP OF CURB or CONCRETE T.O.D./TOP OF DECKING T.O.M./TOP OF MASONRY T.O.P./TOP OF PAVEMENT or PARAPET T.O.S./TOP OF STEEL T.O.W./TOP OF WALL T.S./TUBULAR STEEL T.S.C.D./TOILET SEAT COVER DISPENSER T.T.D./TOILET TISSUE DISPENSER TV/TELEVISION TYP./TYPICAL

U.B.C./UNIFORM BUILDING CODE U.G./UNDERGROUND U.L./UNDERWRITERS LABORATORY UNF./UNFINISHED U.O.N./UNLESS OTHERWISE NOTED UR./URINAL

V.C.T./VINYL COMPOSITION TILE VERT./VERTICAL VEST./VESTIBULE V.G.D.F./VERTICAL GRAIN DOUGLAS FIR V.I.F./VERIFY IN FIELD VOL./VOLUME V.T.R./VENT THRU ROOF (S..P.D. V.W.C./VINYL WALL COVERING

W./WEST OR WASHER W/ /WITH W.C./WATER CLOSET WD./WOOD WDW./WINDOW W.F./WIDE FLANGE WGL/WIRE GLASS W.H./WATER HEATER W.I./WOODWORK INSTITUTE W.O./WHERE OCCURS W/O/WITHOUT W.P./WORKING POINT WSCT./WAINSCOT W.S.P./WET STANDPIPE WT./WEIGHT W.W.F./WELDED WIRE FABRIC

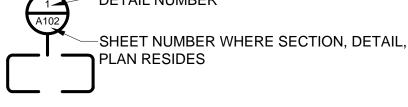
& /AND @ /AT d /PENNY # /POUND OR NUMBER

SYMBOL LEGEND

	PROPERTY LINE		
DF	DRINKING FOUNTAIN	SR	STAFF RES
BR	BOYS RESTROOM	GR	GIRLS RES
G101	OPENING (TAG)		
DO E05B			
RESTROOM E01-R1 RO	OM NAME & NUMBER (TAG)		

---- ACCESSIBLE PATH OF TRAVEL

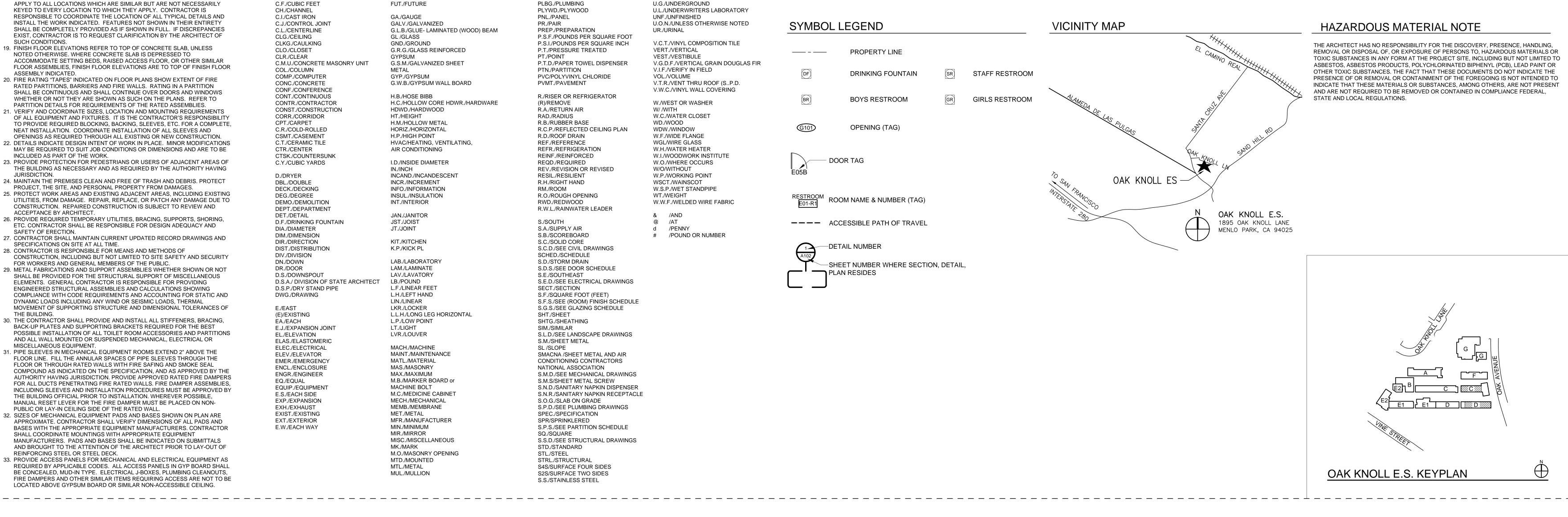
-DETAIL NUMBER

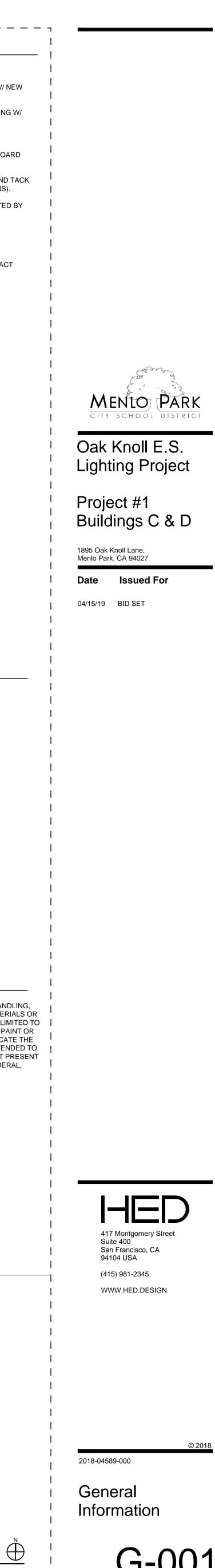


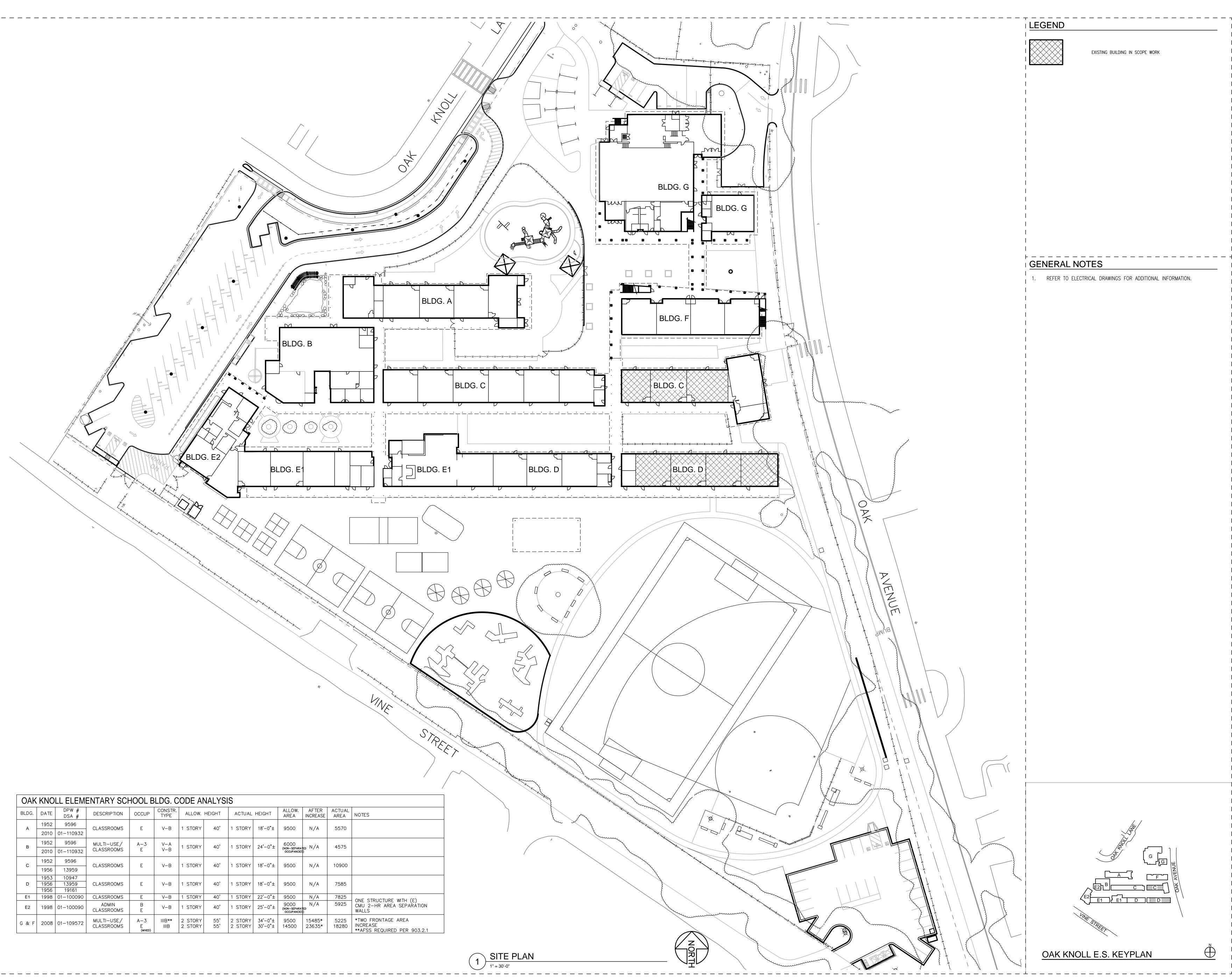
SUMMARY OF WORK THE WORK SHALL INCLUDE BUT IS NOT LIMITED TO THE 1. REPLACEMENT OF EXISTING LIGHTING AND ALL RELATED ACCESSORIES W/ NEW PENDANT LIGHTING SYSTEM. 2. PROVIDE SUSPENDED CEILING SYSTEM AND FULLY FILL VOID ABOVE CEILING W/ BATT INSULATION. 3. REMOVE 12 X 12 ADHESIVE APPLIED APPLIED ACOUSTICAL WALL TILE. 4. ENCASE EXISTING RIDGE WIDE FLANGES W/ MOISTURE RESISTANT GYP. BOARD AND WOOD FRAMING. 5. PROVIDE P.T. 2X WALL FURRING W/ MOISTURE RESISTANT GYP. BOARD AND TACK BOARD FINISH AT EXISTING CMU WALLS (WHERE INDICATED ON THE PLANS). 6. SELECTIVE DEMOLITION, PATCH, REPAIR AND REFINISH OF AREAS AFFECTED BY NEW WORK. 7. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. THE PRECEDING DESCRIPTION DOES NOT LIMIT THE EXTENT OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK CONTAINED WITHIN THE CONTRACT DOCUMENTS.

DEFERRED APPROVAL

NONE







BLDG.	DATE	DPW # DSA #	DESCRIPTION	OCCUP	CONSTR. TYPE	ALLOW.	HEIGHT	ACTUAL	HEIGHT	ALLOW. AREA	AFTER INCREASE	ACTUAL AREA	NOTES	
A	1952	9596	CLASSROOMS	E	V-B	1 STORY	40'	1 STORY	18'-0"±	9500	N/A	5570		
~	2010	01-110932	CEASSICOOMIS	L			+0		10 0 1	5500		5570		
В	1952	9596	9596 MULTI-USE/	A-3	V-A	1 STORY	40'	1 STORY	24'-0"±	6000	ed N/A	4575		
Б	2010	01-110932	CLASSROOMS	E	V-B	I STORT	40		24 -0 1	(NON-SEPARA OCCUPANCIES		4373		
6	C 1952 9596 1956 13959 CLASSROOMS	9596			E	V-B	1 STORY	40'	1 STORY	18'-0"±	9500	N/A	10900	
		E.		I STORT	40		10-0 I	9300		10900				
	1953	10947												
D	1956	13959	CLASSROOMS	E	V-B	1 STORY	40'	1 STORY	18'-0"±	9500	N/A	7585		
	1956	19161												
E1	1998	01-100090	CLASSROOMS	E	V-B	1 STORY	40'	1 STORY	22'-0"±	9500	N/A	7825	ONE ST	
E2	1998	01-100090	ADMIN CLASSROOMS	B E	V-B	1 STORY	40'	1 STORY	25'-0"±	9000 (non-separa occupancies	N/A Ed	5925	CMU 2-	
G & F	2008	01-109572	MULTI-USE/ CLASSROOMS	А—З Е (MIXED)	IIIB** IIIB	2 STORY 2 STORY	55' 55'	2 STORY 2 STORY	34'-0"± 30'-0"±	9500 14500	15485* 23635*	5225 18280	*TWO FI INCREAS **AFSS	

MENTO PARK CITY SCHOOL DISTRICT Oak Knoll E.S.

Lighting Project Project #1

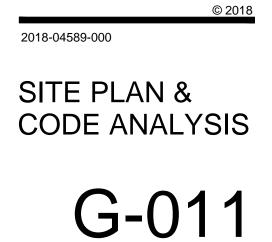
Buildings C & D

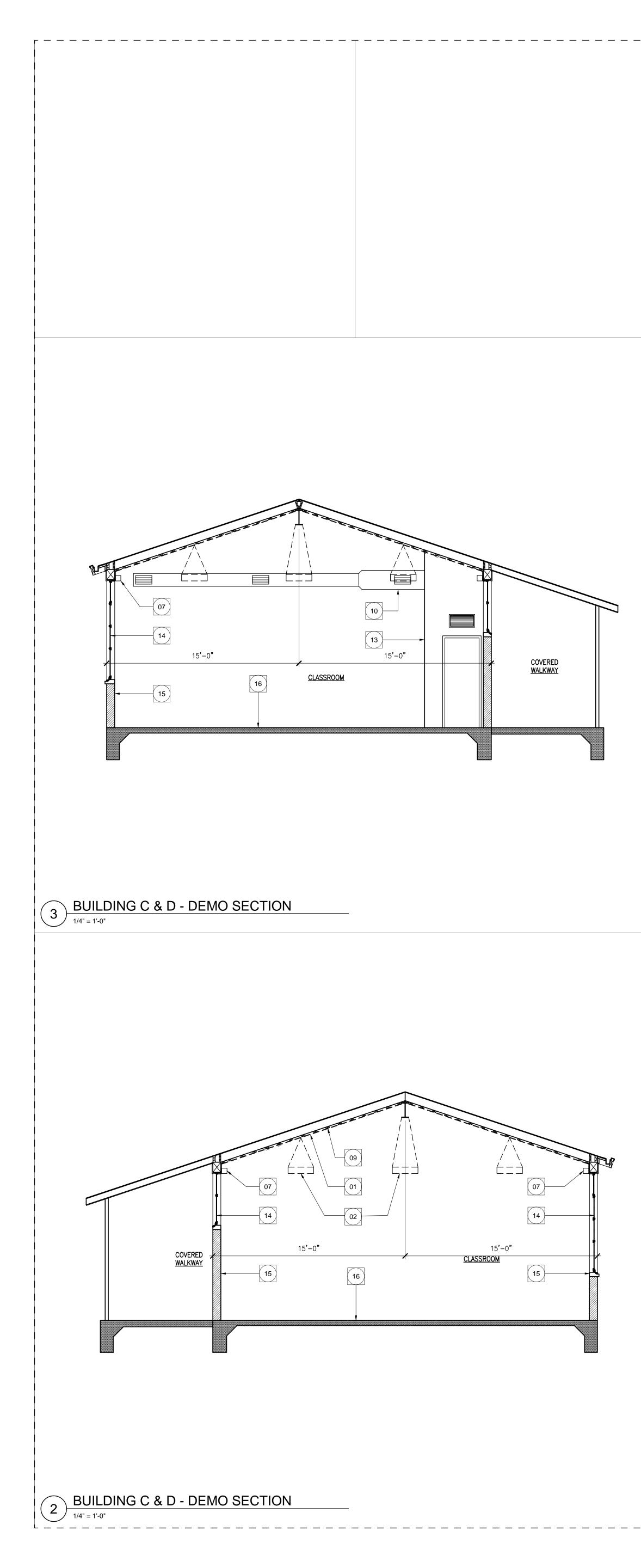
1895 Oak Knoll Lane, Menlo Park, CA 94027

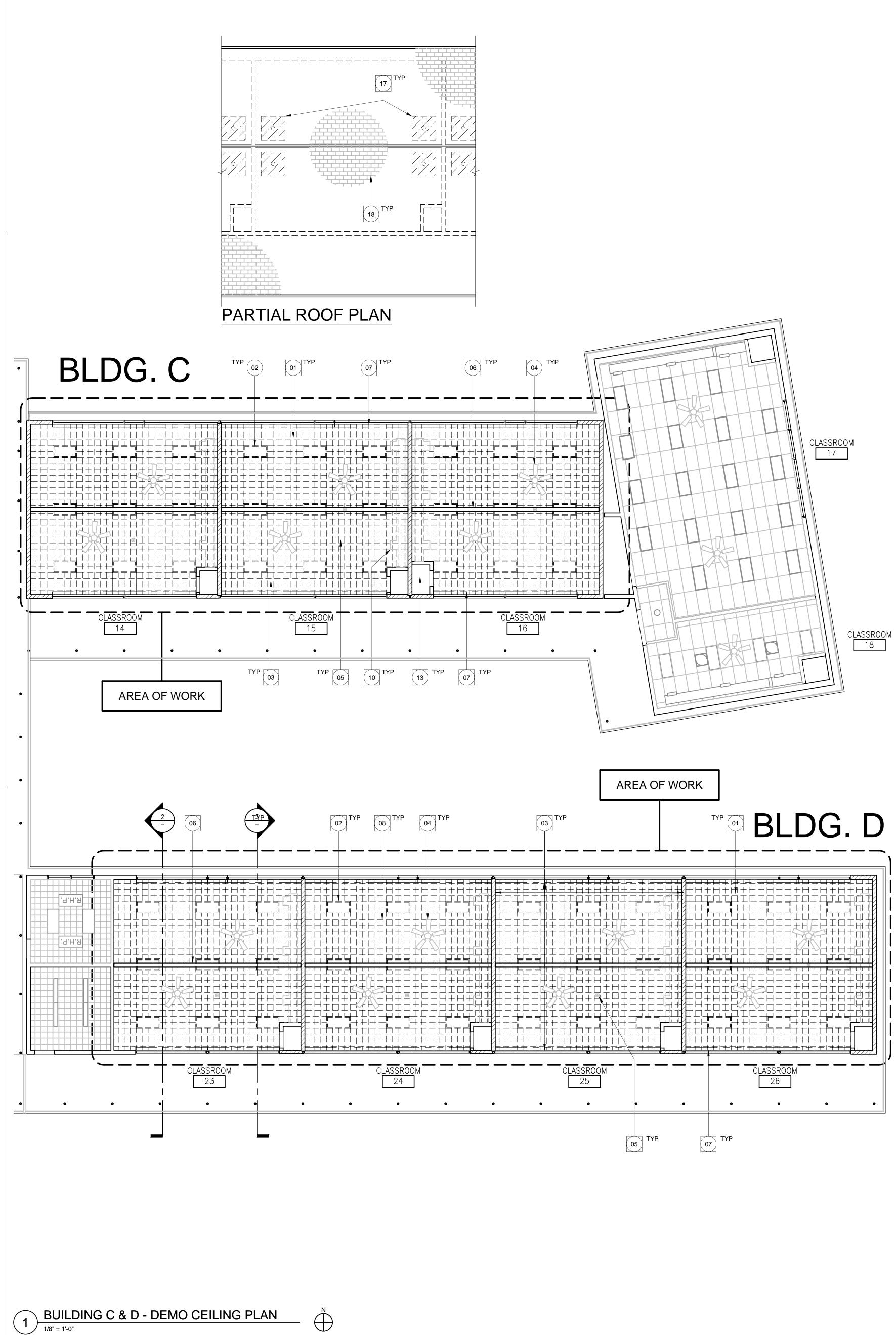
Date Issued For 04/15/19 BID SET



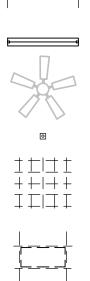
(415) 981-2345 WWW.HED.DESIGN











(E) CMU WALL

(E) WINDOW

(E) CEILING FAN

(E) MOTION SENSOR

(E) GLUE-ON CEILING TILE TO BE REMOVED

(E) LIGHT FIXTURE TO BE REMOVED

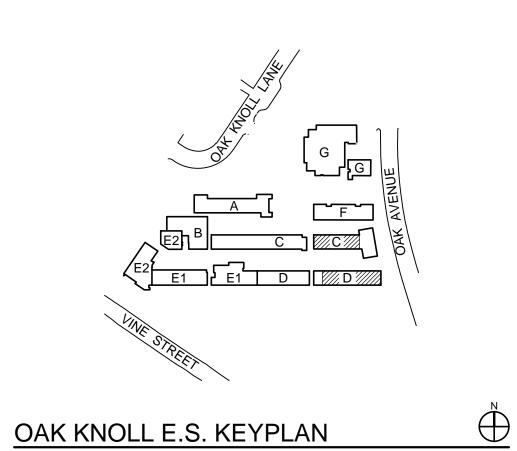
GENERA NOTES

- THESE NOTES APPLY TO THE ENTIRE AREA OF DEMOLITION. THE PLANS ARE DIAGRAMMATIC INDICATION OF THE GENERAL AREAS IN WHICH DEMOLITION MUST TAKE PLACE TO INSTALL NEW IMPROVEMENTS. THE CONTRACTOR WILL PROVIDE COMPLETE DEMOLITION AND REMOVAL WHETHER SPECIFICALLY SHOWN OR NOTED ON THE SPECIFICATIONS. THE CONTRACTOR WILL FIELD VERIFY ALL QUANTITIES AND LOCATIONS OF IMPROVEMENTS IN THIS AREA
- IN ADDITION TO THOSE AREAS NOTED FOR GENERAL DEMOLITION, THE CONTRACTOR MAY CONDUCT ADDITIONAL DEMOLITION AND REPLACEMENT OF MATERIALS TO FACILITATE CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL REPLACEMENT SHALL CONFORM TO THE PLANS AND SPECIFICATIONS FOR NEW WORK.
- FOR EXTENT OF DEMOLITION, CONTRACTOR TO VERIFY FINISHED ELEVATIONS WHERE NEW WORK MEETS EXISTING SURFACES PROVIDE FLUSH TRANSITION U.N.O. CONTRACTOR SHALL SURVEY THE AREA AND INCLUDE ALL REQUIRED IN BID.
- OWNER SHALL HAVE FIRST RIGHT OF RESUFAL FOR ALL DEMOLISHED /REMOVED ITEMS.
- AFTER DEMOLITION OF EXISTING ITEMS IS COMPLETE, CLEAN AND PREP SITE AS REQUIRED TO RECEIVE NEW WORK.
- REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE AND REINSTALL EXISTING FA DEVICES AS NEEDED DUE TO NEW WORK.
- PATCH, REPAIR AND PAINT ANY AREAS AFFECTED BY NEW WORK.

DEMO KEYNOTES

ACCESSORIES.

- 01 REMOVE (E) GLUED-ON CEILING TILE AND ALL RELATED ACCESSORIES. 02 REMOVE SUSPENDED (E) LIGHT FIXTURES AND ALL RELATED
- 03 REMOVE ALL (E) WALL TILE FROM THIS ROOM.
- TEMPORARILY REMOVE (E) FAN AND RE-INSTALL AFTER INSTALLATION OF NEW CEILING.
- 05 TEMPORALLY REMOVE (E) CEILING MOUNTED PROJECTOR, PROJECTOR CEILING MOUNT BRACKET.
- 06 (E) STEEL WIDE FLANGE BEAM, PROTECT.
- 07 TEMPORARILY REMOVE (E) WINDOW SHADES AND RE-INSTALL AFTER INSTALLATION OF NEW CEILING.
- 08 REMOVE (E) CEILING SURFACE MOUNTED CONDUITS.
- 09 (E) WD FURRING TO REMAIN, PROTECT.
- 10 (E) MECH. DUCT TO REMAIN, PROTECT.
- 11 REMOVE (E) INSULATION AND ALL RELATED ACCESSORIES.
- 12 (E) ROOF JOIST, PROTECT.
- 13 (E) MECH. CLOSET, PROTECT.
- 14 (E) WINDOW, PROTECT.
- 15 (E) CMU WALL, PROTECT.
- 16 (E) CONC. SLAB, CARPET/MARMOLEUM, PROTECT
- REMOVE PORTION OF (E) ROOFING AND CUT 7" DIA. HOLE FOR THE 17 PLACEMENT OF NEW VENT (4 PER CLASSROOM).
- 18 (E) ASPHALT ROOFING SHINGLES TO REMAIN, PROTECT.



MENTOPARK CITY SCHOOL DISTRIC

Oak Knoll E.S. Lighting Project Project #1

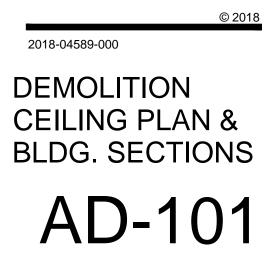
Buildings C & D

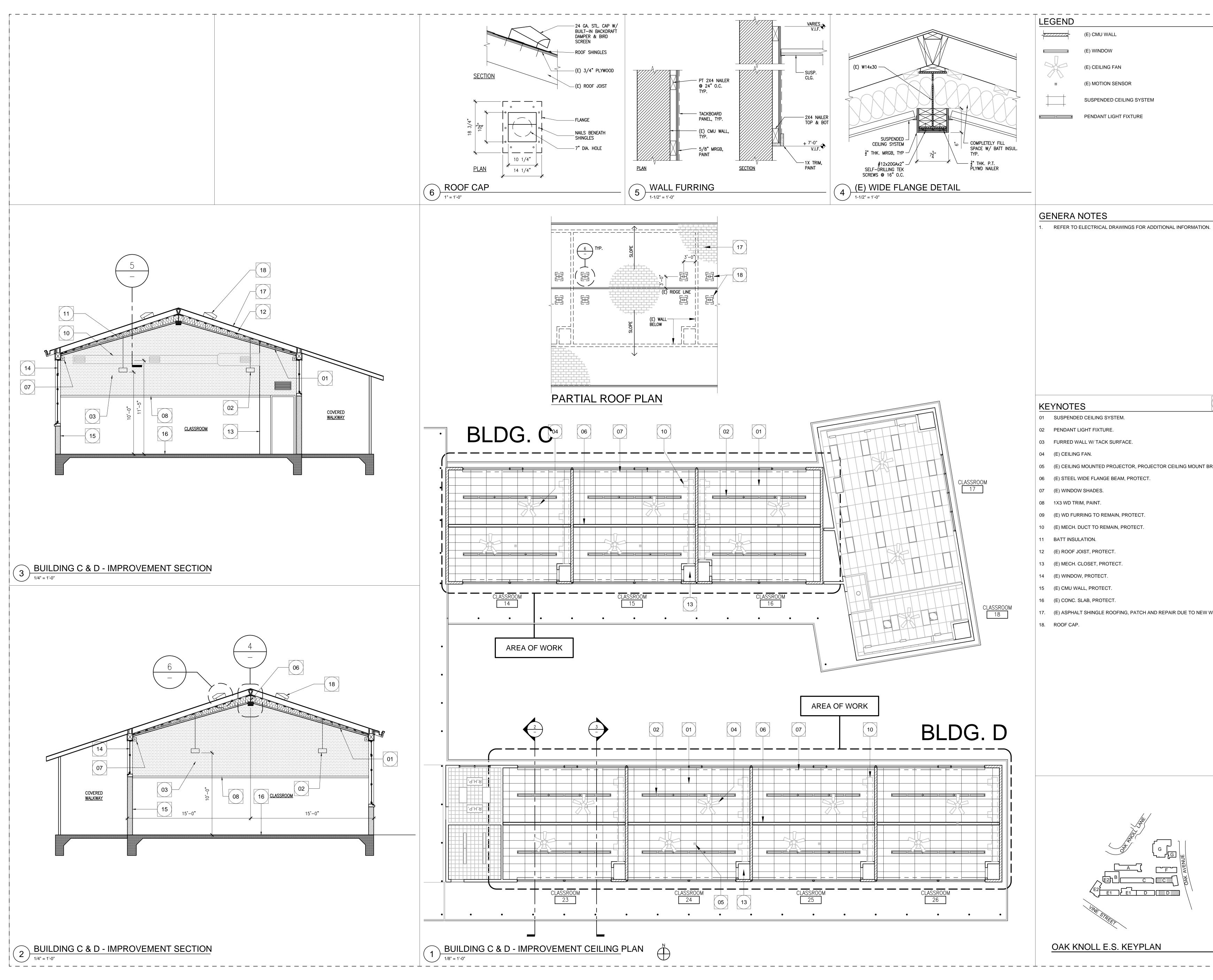
1895 Oak Knoll Lane, Menlo Park, CA 94027

Date Issued For 04/15/19 BID SET

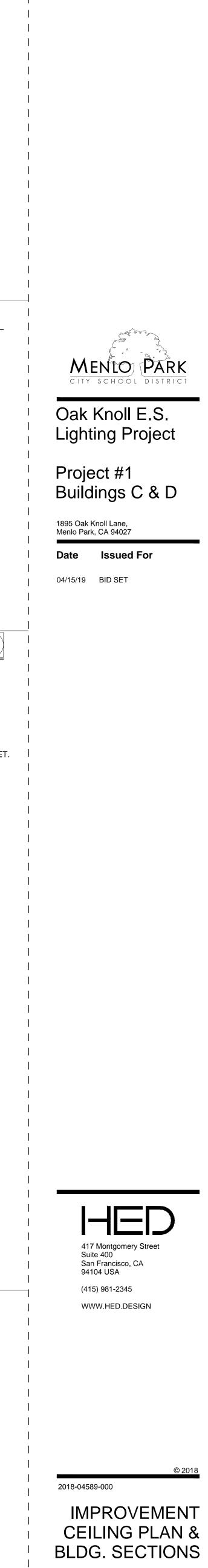


(415) 981-2345 WWW.HED.DESIGN



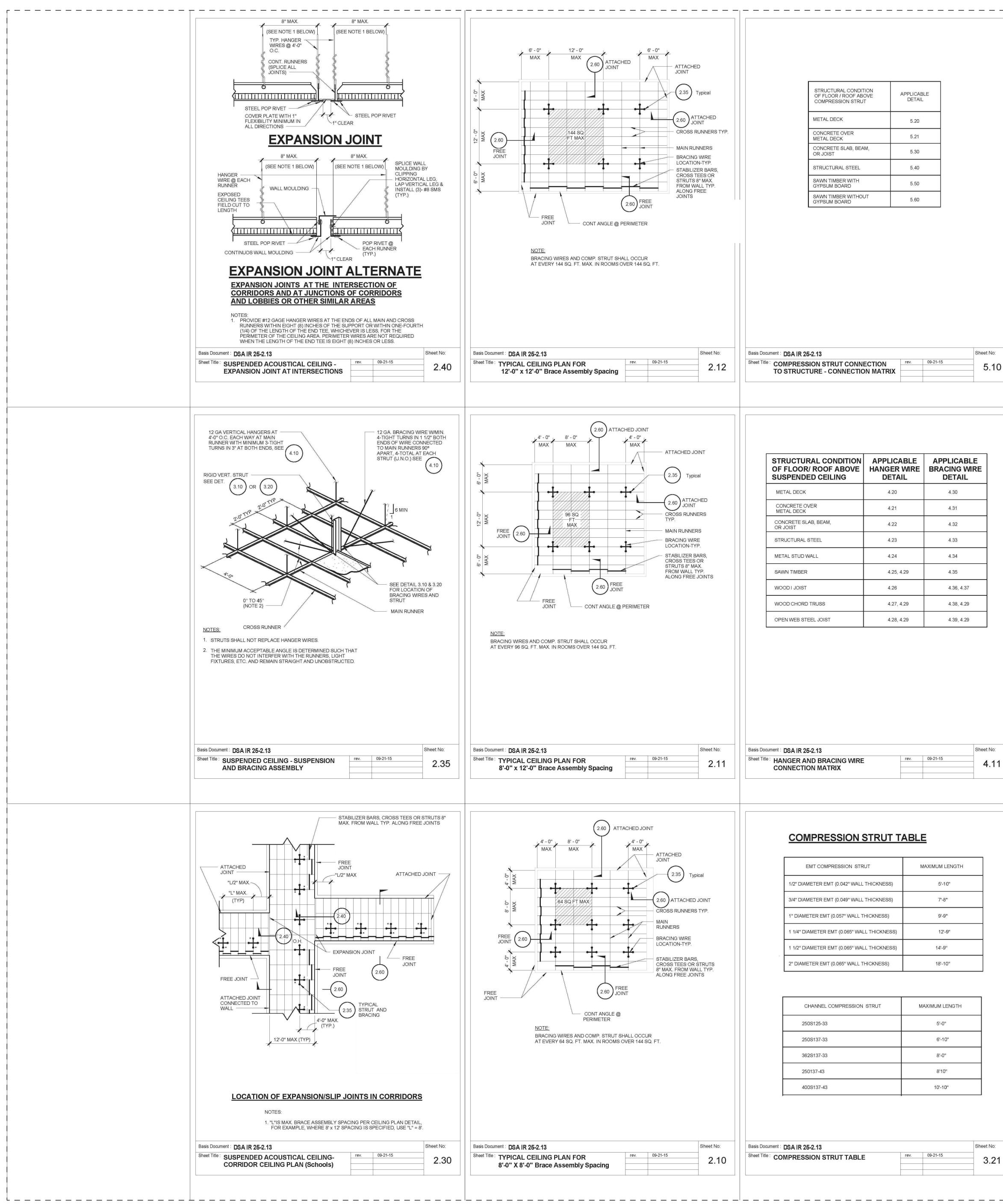


KE	YNOTES
01	SUSPENDED CEILING SYSTEM.
02	PENDANT LIGHT FIXTURE.
03	FURRED WALL W/ TACK SURFACE.
04	(E) CEILING FAN.
05	(E) CEILING MOUNTED PROJECTOR, PROJECTOR CEILING MOUNT BRAC
06	(E) STEEL WIDE FLANGE BEAM, PROTECT.
07	(E) WINDOW SHADES.
08	1X3 WD TRIM, PAINT.
09	(E) WD FURRING TO REMAIN, PROTECT.
10	(E) MECH. DUCT TO REMAIN, PROTECT.
11	BATT INSULATION.
12	(E) ROOF JOIST, PROTECT.
13	(E) MECH. CLOSET, PROTECT.
14	(E) WINDOW, PROTECT.
15	(E) CMU WALL, PROTECT.
16	(E) CONC. SLAB, PROTECT.
17.	(E) ASPHALT SHINGLE ROOFING, PATCH AND REPAIR DUE TO NEW WOR
18.	ROOF CAP.



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A-101



DS	A IR 25-2.13 METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILINGS	SHEET NOTES
1.	CEILING SYSTEM GENERAL NOTES:	1. ALL NOTES AND DRAWINGS ARE PER DSA IR 25–2.13.
1.01		
1.02	The ceiling grid system must be rated heavy duty as defined by ASTM C635-08 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:	
	Manufacturer's Name ARMSTRONG	
	Product Name and Evaluation Report Type/Number <u>PRELUDE XL_ICC ESR 1308</u> Manufacturer's Model Number - main runner <u>7301 HD.</u> Manufacturer's catalog number - cross runner XL 8320 MRC	
1.04		
	Manufacturer's Model BERC 2	
	Ceiling panels shall not support any light fixtures, air terminals or devices.	
1.06	For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 3/4" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide 3/4" clearance between the ceiling	
2.	panel and the wall on the sides of the ceiling free to slip.	
2.01	Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641-09a.	
2.02	Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi. Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall	
	conform to ASTM A653-11, or other equivalent sheet steel listed in Section A2.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members 2007, including supplement 2 dated 2010 (AISI S100-07/S2-10). Material 43 mil (18 gage) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gage) and heavier shall have a minimum yield	
2.03	strength of 50 ksi. Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT	
3.	shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.	
3.01	Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes,	
3.02	conduit, etc. Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to:	
	piping, ductwork, conduit and equipment.	
3.03	Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.	
	Slack safety wires shall be considered hanger wires for installation and testing requirements.	
3.05	Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.)	
4.	FASTENERS AND WELDING:	
4.01	screws through joined material shall not be less than three exposed threads.	
4.02	2 Expansion anchors shall be: Manufacturer's Name <u>HILTI</u> Product Name and Evaluation Report Type/Number KWIK BOLT TZ ESR 1917	
4.03	Manufacturer's Load for each size specified (per CBC 1913A.7.2) <u>SEE 12/SI</u> Power-Actuated Fasteners shall be:	
	Manufacturer's Name <u>HILTI</u> Product Name and Evaluation Report Type/Number <u>X-U or X-P_ESR 2269</u> .	
4.04	If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.	
4.05	Power-actuated fasteners in concrete are not permitted for bracing wires.	
4.06	Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor.	
4.07	Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.	
5.	TESTING: All field testing must be performed in the presence of the project inspector.	
5.01	percent. Power actuated fasteners in concrete shall be field tested for 200 lbs. in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1913A.7.	
5.02	Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1913A.7.	
6. 6.01	LIGHT FIXTURES: All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means	
	to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each light fixture, per ASTM E580, Section 5.3.1.	
6.02	Surface-mounted light fixtures shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gage. Rotational spring catches do not comply. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8) feet.	
6.03		
6.04	Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.	
6.05	Light fixtures weighing greater than 10 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack safety wires connected from the fixture housing at diagonal corners to the structure above.	
	Exception: All light fixtures greater than two by four feet weighing less than 56 lbs. shall have a #12 gage slack safety wire at each corner.	
6.06	All Light fixtures weighing greater than 56 lb. shall be independently supported by not less than four (4) taut #12 gage hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) taut #12 gage wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4) times the weight of the fixture.	
7.	SERVICES WITHIN THE CEILING:	
7.01	shall be positively attached to the ceiling suspension systems by mechanical means. Screws or	
7.02	approved fasteners are required. A minimum of two attachments are required at each component. Ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one	
7.03	 (1) #12 gage slack safety wire attached from the terminal or service to the structure above. Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gage slack safety wires (at diagonal 	
7.04	 corners) connected from the terminal or service to the structure above. Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four (4) taut #12 gage hanger 	
8.	wires attached from the terminal or service to the structure above or other approved hangers. OTHER DEVICES WITHIN THE CEILING:	
8.01	All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 lbs. shall have a #12 gage slack safety wire anchored to the structure above. Devices weighing more than 20 lb. shall be supported independently from the structure above.	C
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Oak Knoll E.S. Lighting Project

Project #1 Buildings C & D

1895 Oak Knoll Lane, Menlo Park, CA 94027

Date Issued For



2018-04589-000

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WOOD	NAILING

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

1. ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON WIRE NAILS CONFORMING TO THE FOLLOWING MINIMUM SIZES:

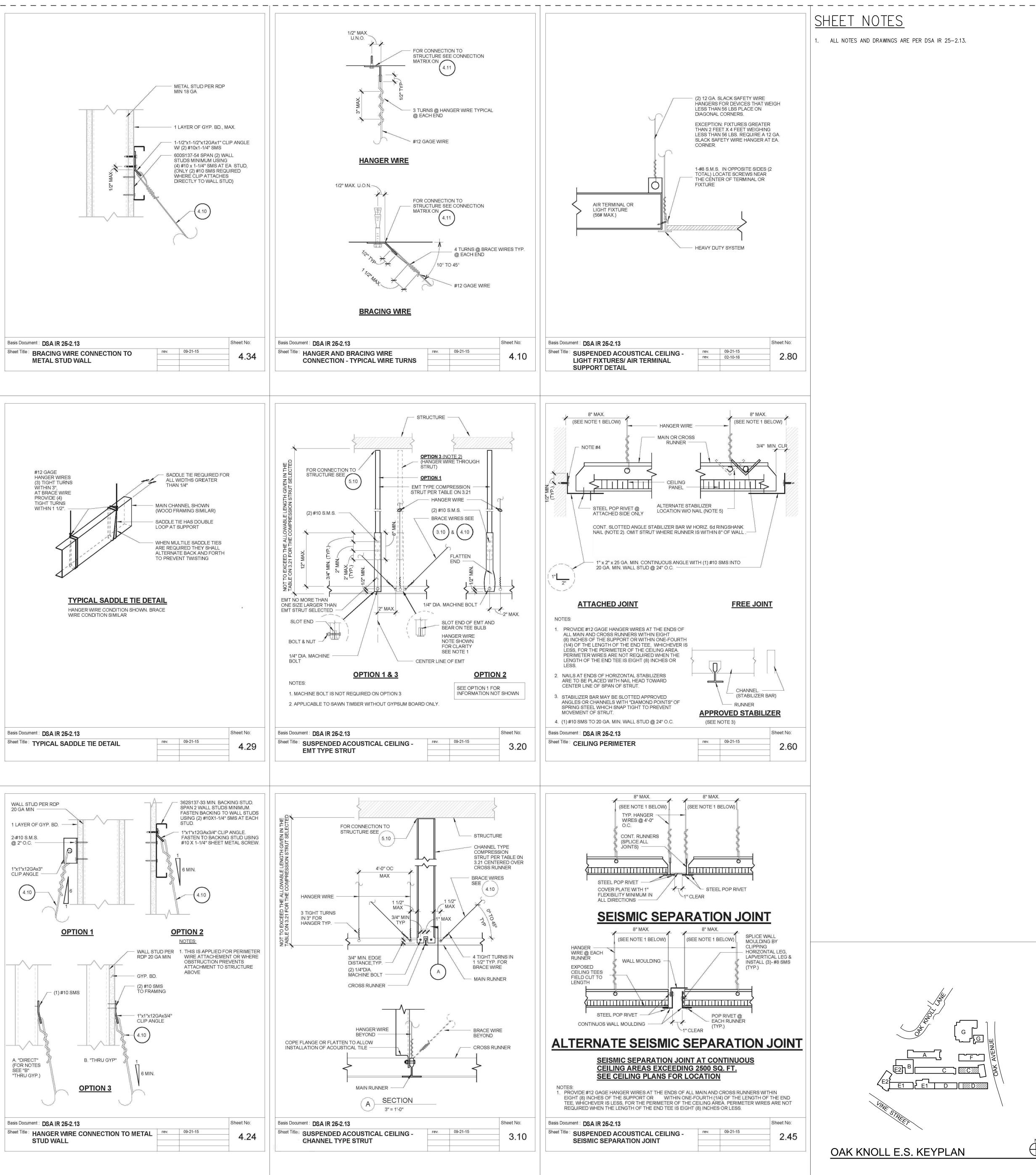
00		
a.	8d	0.131" DIAM x 2-1/2" LONG
b.	10d	0.148" DIAM x 3" LONG
c.	10d SHORT	0.148" DIAM x 1-5/8" PLUS SHEATHING THICKNESS LONG
d.	16d	0.162" DIAM x 3-1/2" LONG
e.	20d	0.192" DIAM x 4" LONG

- e. 20d 2. PROVIDE NAILS AT CONNECTIONS AS INDICATED ON THE STRUCTURAL DRAWINGS, WHERE NAILS AT CONNECTIONS ARE NOT INDICATED, NAIL PER
- NAILING SCHEDULE BELOW (CBC TABLE 2304.10.1). 3. NAILING NOT NOTED IN SCHEDULE BELOW OR IN THE STRUCTURAL DRAWINGS SHALL BE A MINIMUM OF TWO NAILS AT EACH CONTACT. USE 8d NAILS FOR NOMINAL 1x MATERIAL AND 16d FOR NOMINAL 2x MATERIAL.
- 4. HOLES SHALL BE PRE-DRILLED WHERE NECESSARY TO PREVENT SPLITTING. NAILS INTO PRESERVATIVE TREATED LUMBER SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER.

	TABLE 2304.10.1 FASTENING SCHEDULE	
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
	ROOF	
BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8D COMMON (2 1/2" x 0.131")	16" OC EACH FACE, FACE NAIL
BLOCKING BETWEEN RAFTERS	3-8D COMMON (2 1/2" X 0.131")	16" OC EACH FACE, FACE NAIL
OR TRUSS NOT AT ALL TOP PLATE, TO RAFTER OR TRUSS	3-16D COMMON (3 1/2" X 0.162")	END NAIL
RAFTER OR ROOF TRUSS TO TOP PLATE	3-10D COMMON (3" X 0.148")	TOENAIL
ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR	2-16D COMMON (3 1/2" X 0.162")	END NAIL
ROOF RAFTER TO 2-INCH RIDGE BEAM	3-10D COMMON (3 1/2" X 0.148")	TOENAIL
	WALL	
STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS	16D COMMON (3" X 0.162")	16" OC FACE NAIL
BUILT-UP HEADER (2" TO 2" HEADER)	16D COMMON (3 1/2" X 0.162")	16" OC EACH EDGE, FACE NAIL
CONTINUOUS HEADER TO STUD	4-8D COMMON (2 1/2" x 0.131"	TOENAIL
TOP PLATE TO TOP PLATE	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL
TOP PLATE TO TOP PLATE, AT END JOINTS	8-16D COMMON (3 1/2" X 0.162")	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL
STUD TO TOP OR BOTTOM	4-8D COMMON (2 1/2" X 0.131")	TOENAIL
PLATE	2-16D COMMON (3 1/2" X 0.162")	END NAIL
TOP OR BOTTOM PLATE TO STUD	2-16D COMMON (3 1/2" X 0.162")	END NAIL
TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16D COMMON (3 1/2" X 0.162")	FACE NAIL
	FLOOR	
JOIST TO SILL, TOP PLATE, OR GIRDER	3-8D COMMON (2 1/2" X 0.131")	TOENAIL
RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8D COMMON (2 1/2" X 0.131")	6" OC TOENAIL
BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20D COMMON (4" X 0.192")	32" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	AND: 2-20D COMMON (4" X 0.192")	ENDS AND AT EACH SPLICE, FACE NAIL
LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16D COMMON (3 1/2" X 0.162")	EACH JOIST OR RAFTER, FACE NAIL
JOIST TO BAND JOIST OR RIM JOIST	3-16D COMMON (3 1/2" X 0.162")	END NAIL
BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8D COMMON (2 1/2" X 0.131")	EACH END, TOENAIL

HANGER WIRE AAAA 3 TURNS IN 3" TYPICAL @ EACH END	
HANGER WIRE ONLY	
HANGER OR BRACE OR HANGER WIRE 4 TURNS IN 1-1/2" TYPICAL @ EACH END HANGER OR BRACE WIRE	
NOTES:	
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.	
Basis Document : DSA IR 25-2.13	Sheet No:
Sheet Title : CEILING WIRE SPLICES rev. 09-21-15	6.10

cbc



SHEET NOTES

ALL NOTES AND DRAWINGS ARE PER DSA IR 25-2.13.

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OAK KNOLL E.S. KEYPLAN

Oak Knoll E.S. Lighting Project

Project #1 Buildings C & D

1895 Oak Knoll Lane, Menlo Park, CA 94027

Date Issued For



2018-04589-000

Details Suspended Ceiling Assembly Typical - Part B

A-572

	GENERAL NOTES	GENE
	THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE, SPECIFICATIONS AND STANDARD, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY AUTHORITIES HAVING JURISDICTION.	 24. SURFACE TYPE BUILDING LINES 25. ALL WIRES SHA 26. GENERALLY, HO
2.	PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS. VISIT CONSTRUCTION SITE AND ATTEND THE PRE-BID MEETING TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANYWAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.	LINE AS APPRO 27. ALL UNDERGRO EACH RUN OF TRACE WIRE SURFACE ANE
3.	THIS CONTRACTOR SHALL INCLUDE ALL CONTINGENCIES WHICH MAY ARISE AND WHICH MAY BE REQUIRED BY ALTERATION AND DEMOLITION WORK. THIS IS TO INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF ELECTRICAL OUTLETS, CONDUITS, WIRING AND ITEMS FOR ELECTRICAL EQUIPMENT REQUIRED AND ANY NECESSARY SPLICING OR EXTENSION OF EXISTING CONDUIT AND WIRING SYSTEMS. THE ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND DETERMINE EXTENT OF THE WORK.	EQUIVALENT. 28. UPON COMPLE AND BOXES (L SECTION 09900 EXISTING SURF
4.	FIELD VERIFY TO CONFIRM ALL FIRE RESISTIVE CEILINGS AND WALLS. PROVIDE FIRE STOP SEALS PER UNIFORM BUILDING CODE FOR CONDUIT PENETRATION THROUGH FIRE RESISTIVE FLOORS, WALLS AND CEILINGS.	29. THE CONTRACT SET. THE "AS DRAWINGS. THE AND SHALL BE
5.	ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES AND BEAR THEIR LABEL.	THESE DRAWING
6.	CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES. ALL EXPOSED CONDUIT, BOXES, FITTINGS, SUPPORT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES.	30. UPON COMPLE COMPLETE FUI OWNER THAT BE SENT TO I MATERIALS OR
7.	THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.	CONTRACTOR'S
8.	THE OWNER RETAINS FIRST SALVAGE RIGHTS TO ALL EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE OWNER FOR DISPOSITION OF THE EXISTING EQUIPMENT TO BE REMOVED BY HIM. THE CONTRACTOR SHALL INCLUDE IN HIS BID PROPOSAL ALL COSTS RELATED TO THE DISPOSAL OF EXISTING EQUIPMENT REMOVED UNDER THIS CONTRACT.	
9.	ANY POWER SHUTDOWN SHALL BE COORDINATED WITH SCHOOL DISTRICT CONSTRUCTION COORDINATOR. A SHUTDOWN SCHEDULE SHALL BE PRESENTED TO SCHOOL DISTRICT FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN SHALL BE PERFORMED IN OVERTIME HOURS IF SO DIRECTED BY SCHOOL DISTRICT.	
10.	ALL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED IN FINISHED AREA, UNLESS OTHERWISE NOTED. CUT AND PATCH (E) WALL OR CEILING AS REQUIRED. SURFACE TYPE RACEWAY MAY BE PROVIDE IN LIEU OF CONCEALED CONDUITS. SEE NOTES 34, 35 AND 36 FOR REQUIREMENTS.	
11.	ALL PENETRATIONS THROUGH FIRE RESISTIVE WALLS SHALL BE TOTALLY SEALED TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GASES, AND WATER THROUGH THE PENETRATION BEFORE, DURING AND AFTER A FIRE CONDITION. THE FIRE RATING OF THE SEALED PENETRATION SHALL BE AT LEAST THAT OF THE WALL INTO WHICH IT IS INSTALLED. THE SEAL SHALL PERMIT THE VIBRATION, EXPANSION AND/OR CONTRACTION OF THE CONDUIT PASSING THROUGH THE PENETRATION WITHOUT THE SEAL CRACKING OR CRUMBLING.	
	PROVIDE FLEXIBLE CONDUIT AT BUILDING SEISMIC JOINTS.	
13.	UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE 12 AWG THWN STRANDED COPPER ONL.Y.	
	UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4". GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND	
	BRANCH CIRCUIT WIRING. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF-ADHESIVE	
	PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF-ADHESIVE PHENOLIC TYPE AND WHITE LETTER ON BLACK BACKGROUND, PROVIDE BRADY OR DYMO TYPE LABELS (CIRCUIT IDENTIFICATION) FOR ALL SWITCHES AND RECEPTACLES.	
17.	THE CONTRACTOR SHALL PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.	
18.	ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION PER CBC REQUIREMENTS.	
19.	THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR OWNER AND IOR.	
20.	THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING PAINTING AND/OR OTHER REPAIRS DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED. THIS SHALL INCLUDE ALL WALLS, CEILINGS, ROOFS, PAVEMENT, PLANTERS, ETC.	
	WHERE CONDUIT IS ROUTED ON ROOF STRUCTURES, PROVIDE SUPPORT AT 10'-0" O.C. MAXIMUM.	
22.	ALL EXPOSED CONDUIT BELOW 7'-0" SHALL BE RSC AND ALL EXPOSED HARDWARE SHALL BE "HOT DIPPED" GALVANIZED. ALL INTERIOR CONDUITS MAY BE EMT, UNLESS OTHERWISE NOTED.	
23.	WHERE SURFACE WIRING IS CALLED FOR IN A FINISHED AREA, SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED COMPLETE WITH ALL PROPER FITTINGS, ADAPTERS, OUTLETS, DEVICES COVERS, END CAPS, ETC. AS MANUFACTURED BY PANDUIT OR AN APPROVED EQUAL AND SHALL BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING. ALL EXPOSED CONDUITS, BOXES AND CABINETS SHALL ALSO BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING.	

ERAL NOTES (CONTINUATION)

E RACEWAY SYSTEM SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES TO IS AND ROUTE AROUND SURFACE MOUNTED ITEMS, SUCH AS TACK BOARDS, ETC.

HALL BE IN CONDUIT U.O.N.

HORIZONTAL RUNS SHALL BE INSTALLED ON THE CORNER BELOW CEILING ROVED BY THE ENGINEER.

ROUND CONDUIT SHALL HAVE #12 TRACER WIRE WITH THWN INSULATION UNDER THE UNDERGROUND CONDUIT DUCTBAMK AND 6" FOIL MARKER IN TRENCH. SHALL EXTEND AT TERMINATION POINTS A MIN. OF 3 FT FROM SUCH AND SHALL BE TRAPPED SECURED TO CONDUIT OR ACCEPTABLE

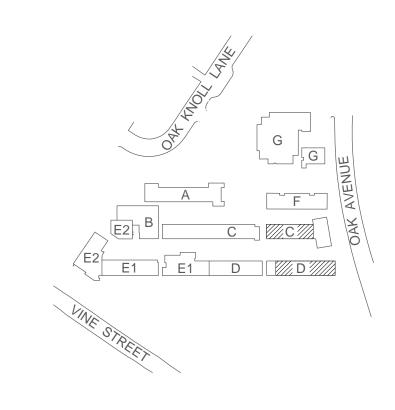
ETION OF CONSTRUCTION, PAINT ALL EXPOSED ELECTRICAL CONDUITS, DEVICES UNLESS DEVICES OR BOXES ARE ALREADY PRE-FINISHED) PER SPECIFICATION 00, PARAGRAPH 2.3 PAINTING SCHEDULE. PAINT COLOR SHALL MATCH THE FACES.

TOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN "AS BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION E TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. NGS SHALL BE UPDATED DAILY AND BE CHECKED WEEKLY BY IOR. S PAYMENT IS TIED TO THEIR COMPLETION.

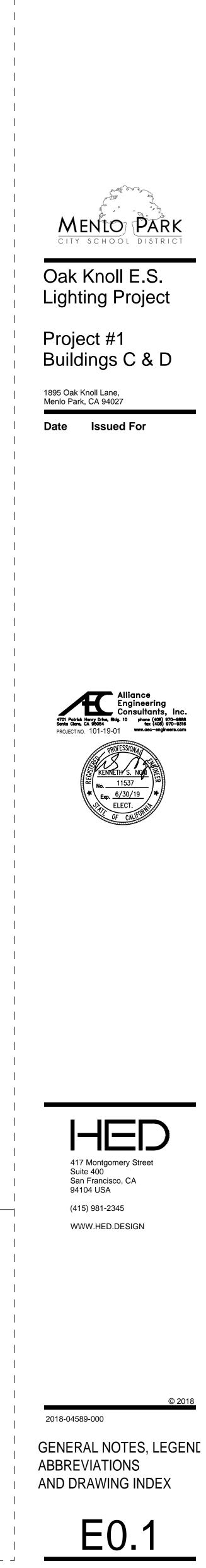
LETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A UNCTIONAL TEST IN THE PRESENCE OF DSA IOR TO DEMONSTRATE TO THE THE NEW INSTALLATION IS OPERATING AS INTENDED TEST RESULTS SHALL DISTRICT FOR IOR AND AOR. ANY DEFECTS OR DEFICIENCIES IN THE R WORK SHALL BE CORRECTED IMMEDIATELY BY AND AT THE S EXPENSE.

	LEGEI	ND	DRAWING INDEX		
	MORE THAN (3); (1) INDICATES GROU CONDUIT AND CONDUCTORS CONCEAL CONDUIT AND WIRES CONCEALED IN CAT6 CABLE IN 3/4" CONDUIT (LOW CONDUIT STUBBED OUT IN ACCESSIB CONDUIT RISER SURFACE MOUNTED ELECTRICAL PANE RECESSED MOUNTED ELECTRICAL PANE HASHMARK INDICATES EXISTING ELECT	LS IN WALL OR CEILING FLOOR OR UNDERGROUND VOLTAGE CONTROL CABLE) LE LOCATION, CAP AND MARK LOCATION ELBOARD, 120/208V NELBOARD, 120/208V TRICAL ITEM TO BE DISCONNECTED AND NDUIT UP TO THE NEXT JUNCTION BOX DRAWING PER CODE. EMA 5–20, +18" AFF (UON) MA 6–50R, +18" AFF (UON) NGE PLUG TO BE COMPATIBLE) OR D OCCUPANCY SENSOR	E0.1 GENERAL NOTES, LEGEND, ABBREVIATION AND DRAWING INDEX E0.2 CERTIFICATE OF COMPLIANCE TITLE 24 E1.1 ELECTRICAL DEMOLITION PLAN E2.1 ELECTRICAL PLAN (BASE BID) E3.1 ELECTRICAL SCHEDULE AND DETAILS		
1 E3.1 IP S S A AMP AFF AP BRKR C CATV CBC CCTV CBC CCTV CBC CCTV CEC CKT CO	DETAIL TAG. REFER TO DETAIL 1 ON (E) PROJECTOR SPEAKER ABOVE FINISHED FLOOR ACCESS POINT BREAKER CONDUIT, CLOCK CABLE TELEVISION CALIFORNIA BUILDING CODE CLOSED CIRCUIT TELEVISION CALIFORNIA ELECTRIC CODE CIRCUIT CONDUIT ONLY WITH PULL ROPE	TIONS O.C.ON CENTERPAPUBLIC ADDRESSPH, ØPHASEPNLPHASE(R)RELOCATEDRECEPT.RECEPTACLESADSEE ARCHITECTURALDRAWINGS	 LIST OF APPLICABLE CODES 1. 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR) 2. 2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (PART 2, TITLE 24, CCR) 3. 2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) 4. 2016 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) 5. 2016 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) 6. 2016 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR) 7. 2013 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR) 8. 2016 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR) 		
CPS CSC (E) FU G IDF MAX MDF MIN MPOE MSTC MTB NEC NL NTS	CURRICULUM AND PRESENTATION SYSTEM CLOCK/SPEAKER CABINET EXISTING FUSE GROUND, GUARD INTERMEDIATE DISTRIBUTION FRAME MAXIMUM MAIN DISTRIBUTION FRAME MINIMUM MAIN POINT OF ENTRY MAIN SIGNAL TELEPHONE CABINET MAIN TELEPHONE BOARD NATIONAL ELECTRICAL CODE NIGHT LIGHT NOT TO SCALE	STCSATELLITE TERMINAL CABINETTRANSF.TRANSFORMER TELEPHONE BOARD TCTBTELEPHONE BOARD TCTYPTYPICALUONUNLESS OTHERWISE NOTEDVVOLTWWATT WGWGWIRE GUARD WPWFWEATHERPROOFXFMRTRANSFORMER	 2016 CALIFORNIA REFERENCE STANDARDS CODE (PART 12, TITLE 24, CCR) NFPA 13, 2016 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED NFPA 14, 2016 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS NFPA 24, 2016 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES NFPA 72, 2016 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED 		

	ABBREVIAT		S
A AMP AFF AP	AMPERE ABOVE FINISHED FLOOR ACCESS POINT	O.C. PA	ON C PUBL
BRKR	BREAKER	PH, Ø PNL	PHAS PANE
C CATV CBC	CONDUIT, CLOCK CABLE TELEVISION CALIFORNIA BUILDING CODE	(R) RECEPT.	RELO RECE
CCTV CEC CKT	CLOSED CIRCUIT TELEVISION CALIFORNIA ELECTRIC CODE CIRCUIT	SAD	SEE DRAW
CO CPS	CONDUIT ONLY WITH PULL ROPE CURRICULUM AND PRESENTATION SYSTEM	STC	SATEL CABIN
CSC (E) FU	CLOCK/SPEAKER CABINET EXISTING FUSE	TRANSF. TB TC TYP	TRANS TELEF TERM TYPIC
G IDF	GROUND, GUARD INTERMEDIATE DISTRIBUTION FRAME	UON	UNLE NOTE
MAX MDF MIN MPOE MSTC MTB	MAXIMUM MAIN DISTRIBUTION FRAME MINIMUM MAIN POINT OF ENTRY MAIN SIGNAL TELEPHONE CABINET MAIN TELEPHONE BOARD	V WG WP XFMR	VOLT WATT WIRE WEAT
NEC NL NTS	NATIONAL ELECTRICAL CODE NIGHT LIGHT NOT TO SCALE		



OAK KNOLL E.S. KEYPLAN

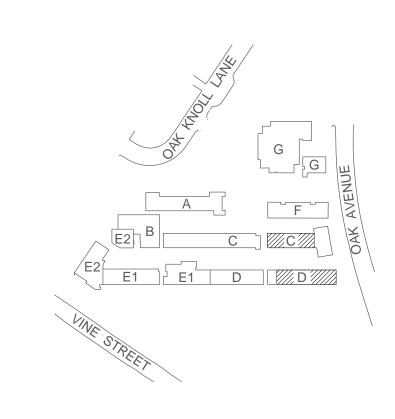


TATE OF CALIFORNIA NDOOR LIGHTING EC-NCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION EDUCATE OF COMPUTATION	STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTH-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTH01-E (Revised 04/18)
CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E Indoor Lighting (Page 1 of 6) Project Name: OAK KNOLL E.S.	CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E Indoor Lighting (Page 2 of 6) Project Name: OAK KNOLL E.S.	CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: OAK KNOLL E.S.
General Information	C. Summary of Allowed Lighting Power	UAR NIGEL E.S.
Date Zone: Conditioned Floor Area: 6,392 3 Unconditioned Floor Area: 0	Conditioned and Unconditioned space Lighting must not be combined for compliance Indoor Lighting Power for Conditioned Spaces Indoor Lighting Power for Unconditioned Spaces	E. Declaration of Required Certificates of Acceptance Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify form
Jing Type: Image: Constraint in the second seco	Watts Watts Installed Lighting 3,142 NRCC-LTI-01-E, Table H, page 5 +	YES NO Compliance Document/Title Image: Compliance Document/Title Image: Compliance Document/Title Image: Compliance Document/Title Image: Compliance Document/Title Image: Compliance Document/Title Image: Compliance Document/Title Image: Compliance Document/Title Image: Compliance Document/Title Image: Compliance Document/Title
of Construction: Image: Construction Image: Construction <td>02 Portable Only for Offices NRCC-LTI-01-E, Table G, page 4 +</td> <td>Image: Provide and the system of th</td>	02 Portable Only for Offices NRCC-LTI-01-E, Table G, page 4 +	Image: Provide and the system of th
ress: 1895 OAK KNOLL LANE	03 Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - 0 Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - 0 04 Adjusted Installed Lighting Power Adjusted Installed Lighting Power = 3,142 = 3,142 Adjusted Installed Lighting Power = 0 = 0	Image: Construction of the system o
ompliance Documents (select yes for each document included) astructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.	04Adjusted installed Lighting Power (row 1 plus row 2 minus row 3)=3,142Adjusted installed Lighting Power (row 1 minus row 3)=0Complies ONLY if Installed \leq Allowed (Box 04 < Box 05)	A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Li
NO COMP. DOC. TITLE Image:	Allowed Lighting Power Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 Unconditioned NRCC-LTI-03-E, page 1	
Image: Sector of the sector	05 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may 6,072 Alterations with replacement luminaires that have at least 50/35% 0	F. Indoor Lighting Schedule and Field Inspection Energy Checklist The actual indoor lighting power listed on the next 2 pages includes all installed permanent and plan When Complete Building Method is used for compliance, list each different type of lumination on com
Image: Constraint of the second se	may instead use the allowed wattage from NRCC-LTI-06, page 2 instead use the allowed wattage from NRCC-LTI-06, page 2	 When Complete Building Method is used for compliance, list each different type of luminaire on sep When Area Category Method or Tailored Method is used for compliance, list each different type of l Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LT
NRCC-LTI-06-E Indoor Lighting Existing Conditions	D. Declaration of Required Certificates of Installation Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)	
	YES NO Compliance Document/Title É Image: NRCI-LTI-01-E - Must be submitted for all buildings Image:	
	□ I I I I I I I I I I I I I I I I I I I	
	Image: NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance. Image: Field Inspector	
	Image: NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance. Image: Im	
	Image: Second state NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. Image: Field Inspector Image: Second state NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for Image: Field Inspector Image: Second state Image: Second state Image: Field Inspector Image: Field Inspector	
ergy Efficiency Standards - 2016 Nonresidential Compliance April 2016	L L L Field Inspector CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance
FORNIA LIGHTING 01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING – LIGHTING CONTROLS CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING – LIGHTING CONTROLS CEC-NRCC-LTI-02-E (Revised 01/16)
F COMPLIANCE NRCC-LTI-01-E (Page 6 of 6)	CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E Indoor Lighting - Lighting Controls (Page 1 of 3)	CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls
KNOLL E.S. Date Prepared: 4/16/2019	Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019	Project Name: OAK KNOLL E.S.
N AUTHOR'S DECLARATION STATEMENT this Certificate of Compliance documentation is accurate and complete.	A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)	A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used o CONDITIONED SPACES UNCONDITIONED SPACES
DOAN TRANG HOANG Documentation Signature Alliance Engineering Consultants, Inc Signature Date: 4/16/2019	YES NO Control Requirements	B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection
4701 PATRICK HENRY DRIVE, BLDG 10 CEA Certification Identification (if applicable): SANTA CLARA, CA 95054 Phone: 408-970-9888 408-970-9888	Image: Description of the section o	
SON'S DECLARATION STATEMENT ng under penalty of perjury, under the laws of the State of California:	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).	Standards Comp
ation provided on this Certificate of Compliance is true and correct. e under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance e designer).	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).	Lighting Control Schedule (v all that apply, or entitient of the state of the s
y features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of the conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. Ing design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b). All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's	Type/Description of Lighting Type/Description of Lighting Control (i.e.: occupancy sensor, # Location in Building automatic time switch, of
worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the t agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the	Left Instructions in accordance with Section 130.1.	Location in Building automatic time switch, of c c c c c c c c c c c c c c c c c c
les to the building owner at occupancy. Responsible Designer Signature:	Image: Constraint of the section of the sectin of the section of the section of the section of the section of	BLDGS Occupancy Sensor 7 I I II BLDGS Multi Level 7 I II II
ALLIANCE ENGINEERING CONSULTANTS, INC. Date Signed: 4/16/2019	and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.	BLDGS Multi Leven 7 - - - BLDGS Automatic Daylighting 14 □ □ □ □
4701 PATRICK HENRY DRIVE, BLDG 10 Derive 11537 SANTA CLARA, CA 95054 Phone: (408) 970-9888	Image: The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).	
	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).	Control C IF MULTIPLE PAGES ARE USED. ENTER SUM TOTAL OF Control Credit for
	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.	
	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e). Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for	1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Ma
	normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF	Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight C 2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and uncondition also required to be filled out, signed, and submitted.
	controls, and demand responsive controls.	uiso requireu to be finea out, signea, una saonintieu.
gy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance
ORNIA IGHTING POWER ALLOWANCE 3-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE CEC-NRCC-LTF-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	
DF COMPLIANCE NRCC-LTI-03-E Compliance - Indoor Lighting Power Allowance (Page 1 of 4)	CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E Certificate of Compliance - Indoor Lighting Power Allowance (Page 4 of 4)	
KNOLL E.S. Date Prepared: 4/16/2019	Project Name: OAK KNOLL E.S. Date Prepared: 4/16/2019	
e must be filled out for Conditioned and Unconditioned Spaces. This page is only for: IED spaces	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Documentation Author Name: Documentation Author Name: Documentation Author Name: Documentation Author Signature:	
pTALS OF LIGHTING POWER ALLOWANCES	DOAN IRANG HOANG Company: Alliance Engineering Consultants, Inc Signature Date: 4/16/2019	
gory Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total	Address: 4701 PATRICK HENRY DRIVE, BLDG 10 CEA Certification (if applicable): City/State/Zip: SANTA CLARA, CA 95054 Phone: 408-970-9888	
ing watts (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	SANTA CLARA, CA 95054 406-970-9686 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:	
Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)	 The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 	
DTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1 6,072 f building contains both conditioned and unconditioned areas. 6,072	3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	
DING METHOD LIGHTING POWER ALLOWANCE	 The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the 	
01 02 03 04 WATTS x COMPLETE = ALLOWED	enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
TYPE OF BUILDING (From §140.6 Table 140.6-B) PER ft ² A BLDG. AREA WATTS School 0.95 6,392 6,072	Company : ALLIANCE ENGINEERING CONSULTANTS, INC. Date Signed: 4/16/2019	
Total Area: Total Area: Total Watts. Enter Total Watts into section A, row 1 (Above on this page)	Address: 4701 PATRICK HENRY DRIVE, BLDG 10 License: 11537 City/State/Zip: SANTA CLARA, CA 95054 Phone: (408) 970-9888	
TEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES Watts		
Total from section C-2. Total from section C-3. Total Watts. Enter Total Watts into section A, row 2 (Above on this page).		
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.		
•		
Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	

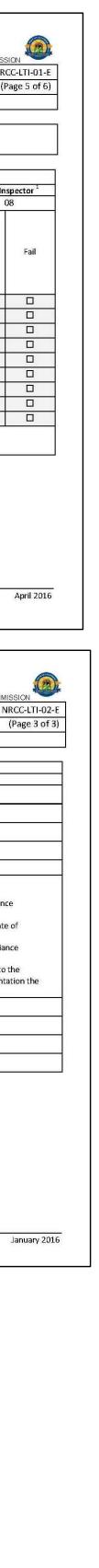
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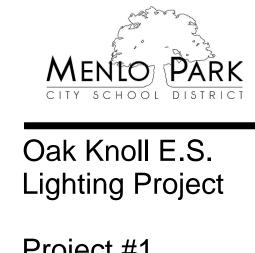
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OAK KNOLL E.S. KEYPLAN





Project #1 Buildings C & D

1895 Oak Knoll Lane, Menlo Park, CA 94027 Date Issued For





2018-04589-000

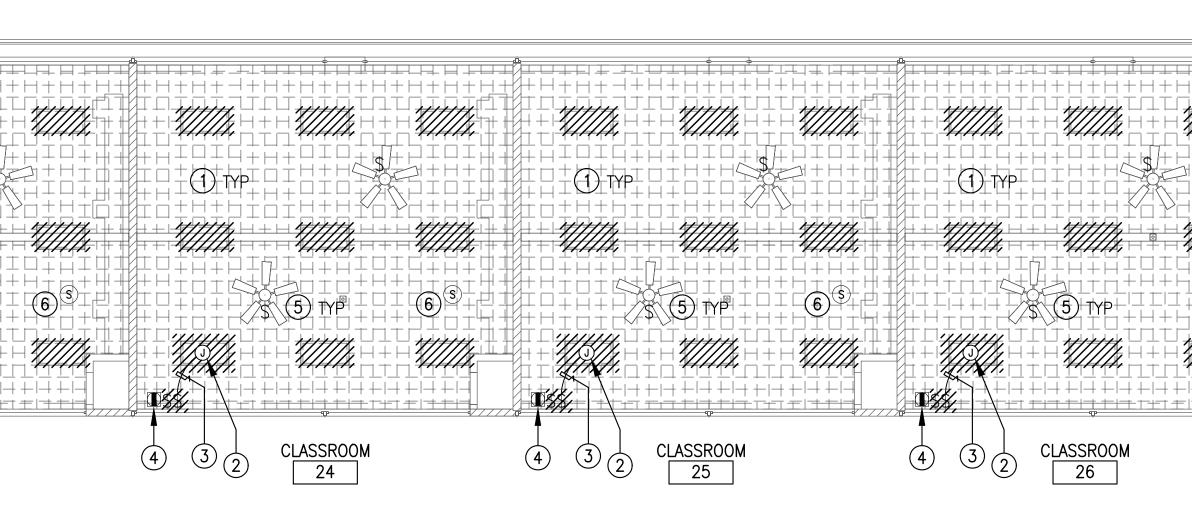
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CERTIFICATE OF COMPLIANCE TITLE 24



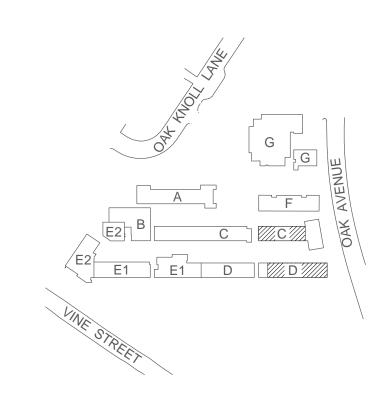






SHEET NOTES:

- (1) ALL (E) LIGHT FIXTURES, POWER PACKS, OCCUPANCY SENSORS AND SWITCHES SHOWN ON THIS ROOM SHALL BE DISCONNECTED AND REMOVED.
- (2) DISCONNECT AND REMOVE (E) LIGHT FIXTURE, COIL UP AND TAPE (E) WIRES IN (E) JUNCTION BOX FOR RECONNECTION IN THE (N) WÓRK.
- (3) (E) 3/4"C FROM (E) JUNCTION BOX TO (E) SWITCH SHALL REMAIN FOR (N) DIMMER SWITCH TO BE INSTALLED IN THE (N) WORK. REMOVÉ (E) WIRES.
- (4) (E) FAN CONTROL SWITCHES SHALL REMAIN.
- (5) RELOCATE (E) CEILING FAN WITH SWITCHES TO THE (N) LOCATION SHOWN IN THE (N) WORK.
- (4) RELOCATE (E) FLUSH MOUNTED SPEAKER TO THE (N) LOCATION SHOWN IN THE (N) WORK. COIL UP (E) WIRES IN A JUNCTION BOX FOR RECONNECTION IN THE (N) WORK.
- 5 DISCONNECT AND REMOVE (E) PROJECTOR (SHOWN OR NOT SHOWN) INCLUDING ALL ASSOCIATED CONDUIT, WIRES AND CABLES UP TO SOURCE.



OAK KNOLL E.S. KEYPLAN



Project #1 Buildings C & D

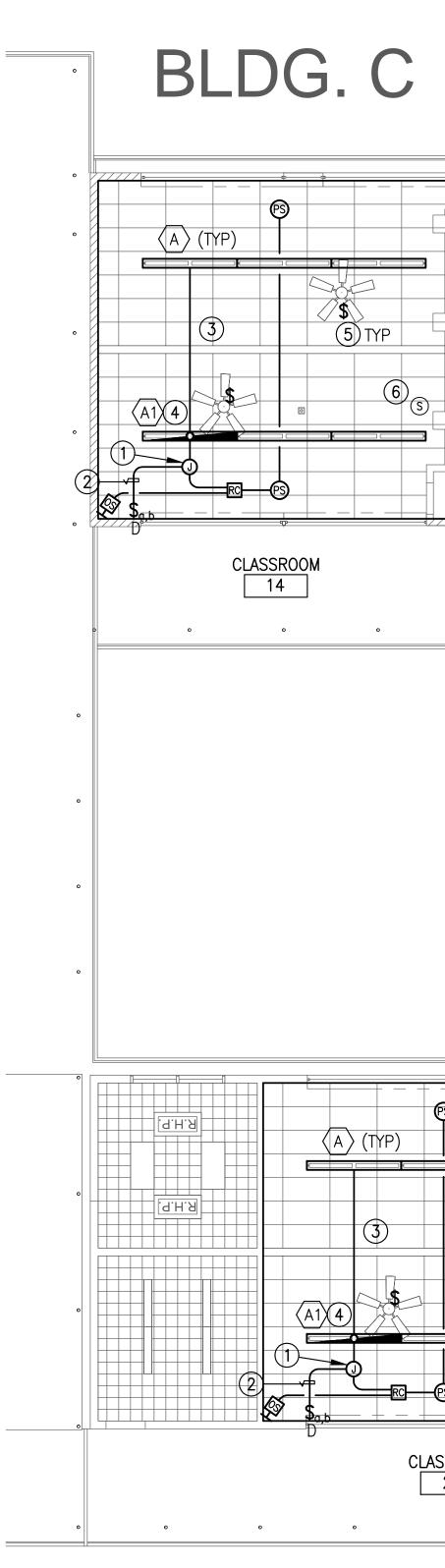
1895 Oak Knoll Lane, Menlo Park, CA 94027

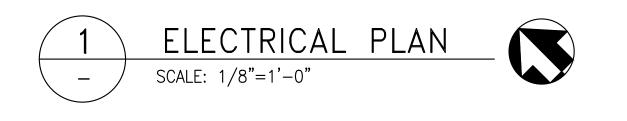


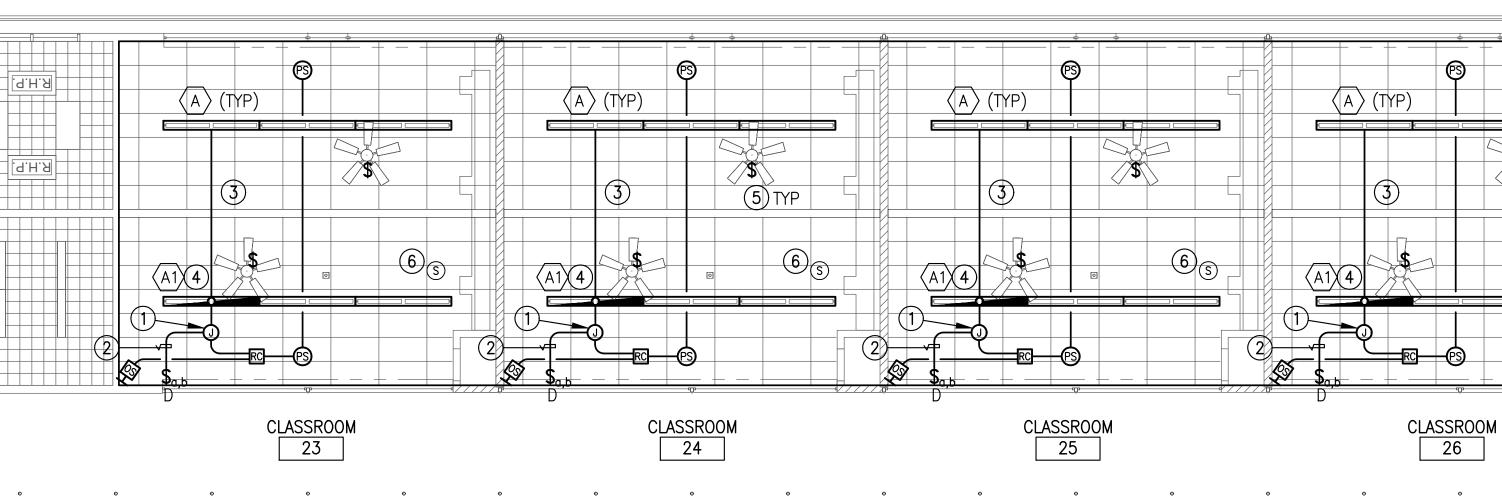


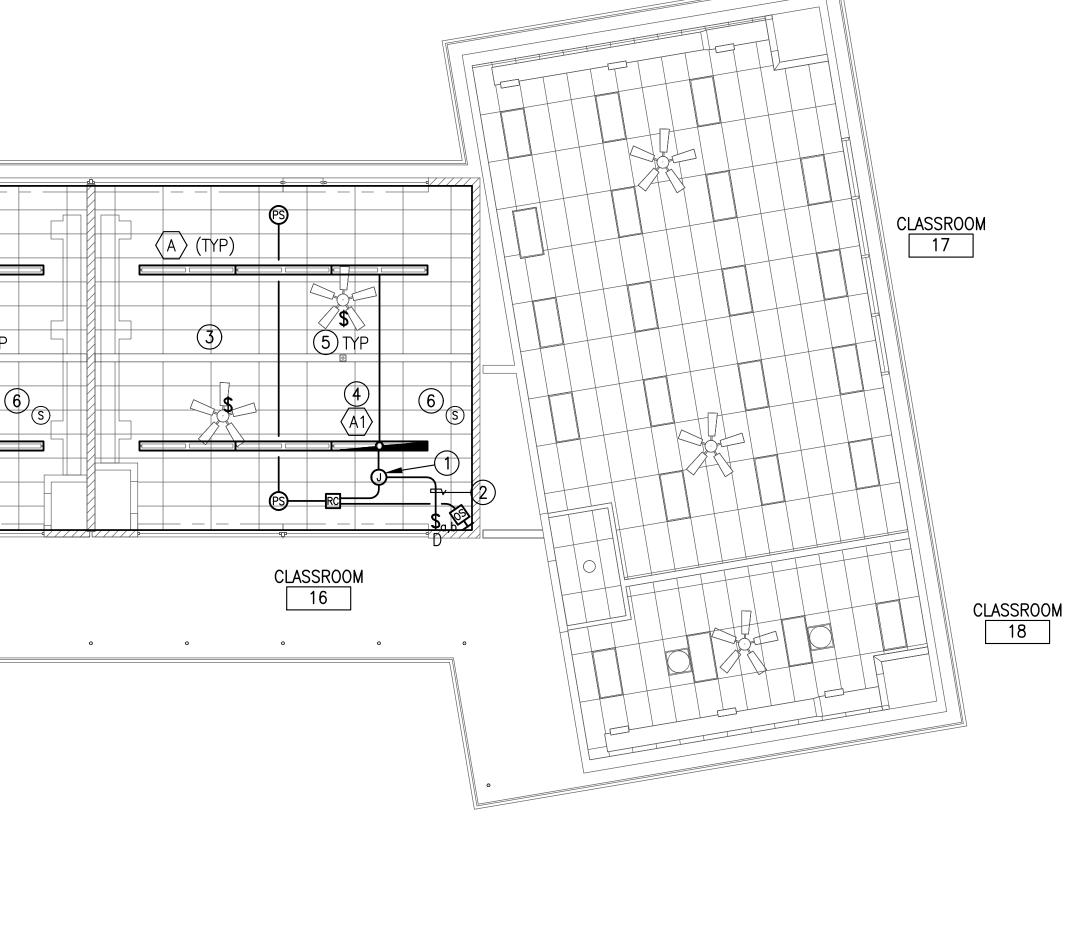


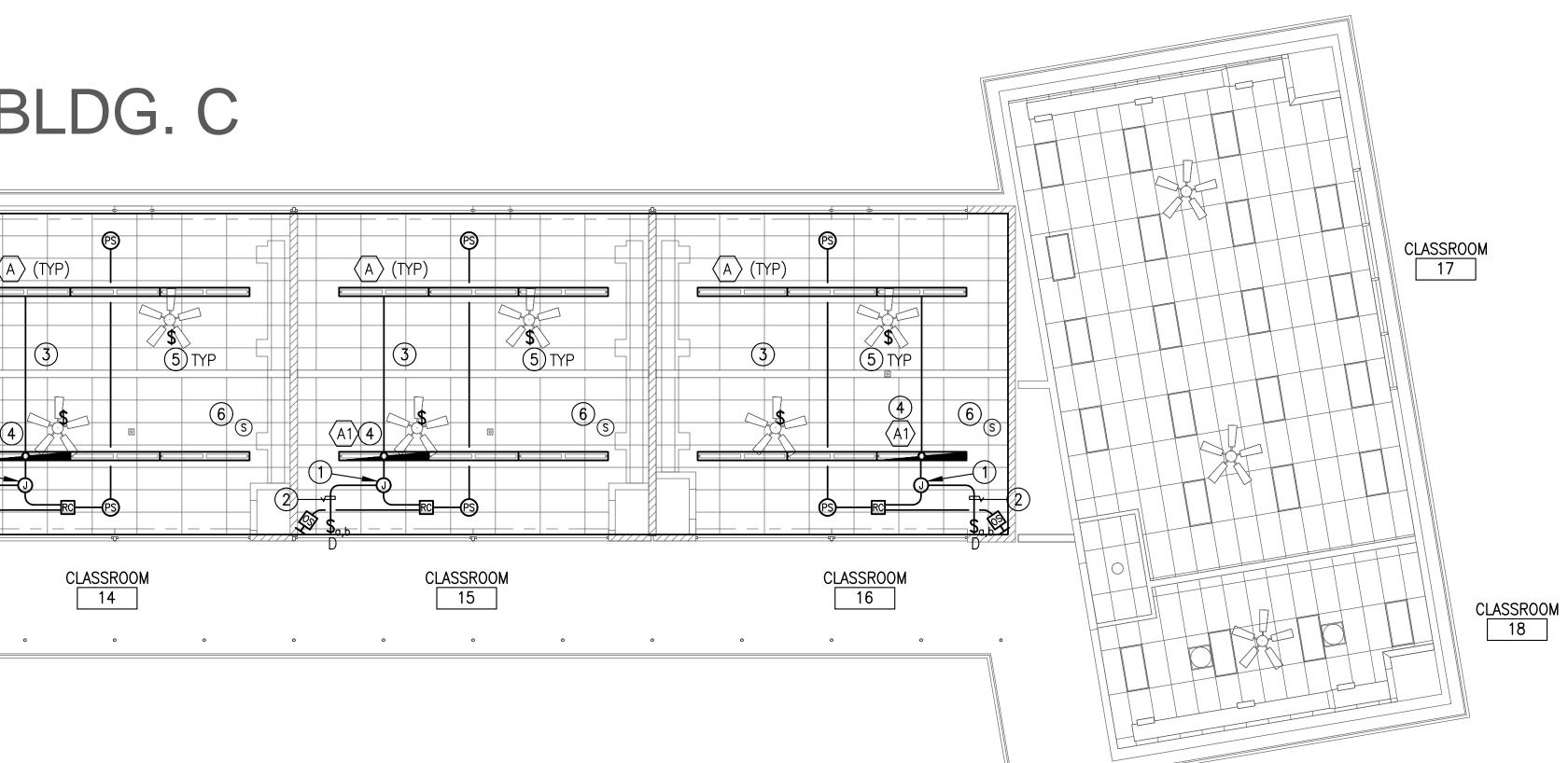
2018-04589-000 ELECTRICAL DEMOLITION PLAN







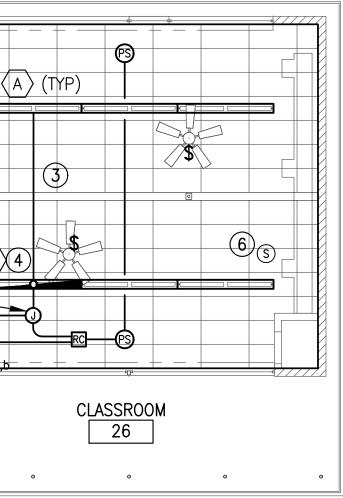


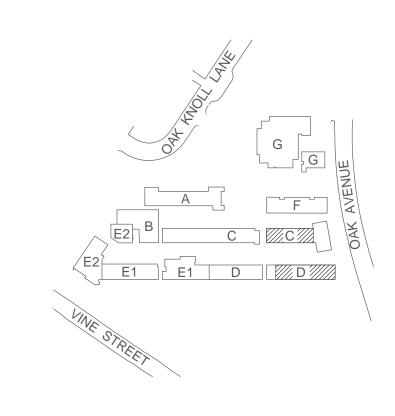


SHEET NOTES:

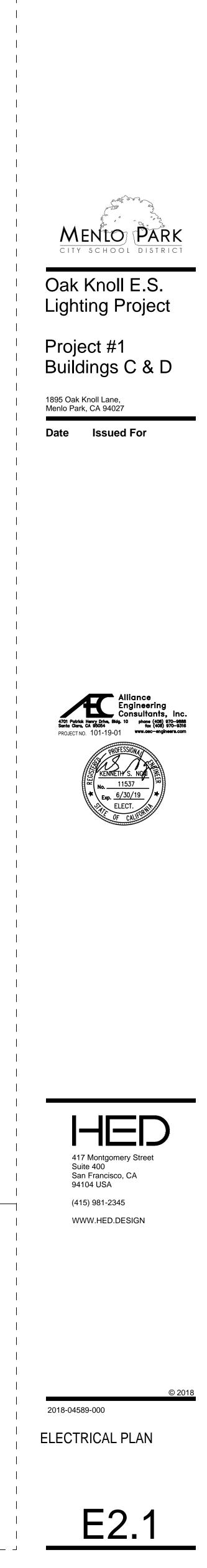
- 1 INTERCEPT (E) HOT WIRES (FIELD VERIFY) AND EXTEND (N) CONDUIT AND WIRES TO (N) LIGHTING FIXTURES AS SHOWN. REFER TO NOTE 2 ON SHEET E1.1.
- 2 UTILIZE (E) 3/4"C TO INSTALL (N) CAT6 CABLE FOR DIMMING CONTROL. REFER TO NOTE 3 ON SHEET E1.1.
- 3 SEE CONTROL WIRING DIAGRAM FOR ADDITIONAL WORK REQUIRED AND INFORMATION.
- (4) PROVIDE UNSWITCHED HOT WIRE TO EMERGENCY DRIVER.
- (5) REINSTALL (E) CEILING FAN WITH SWITCH. EXTEND CONDUIT AND WIRES AS REQUIRED TO PUT IT BACK IN SERVICE. SEE ATTACHMENT DETAIL 1 ON SHEET E3.1.
- 6 REINSTALL (E) SPEAKER. EXTEND CONDUIT AND WIRES AS REQUIRED TO PUT IT BACK IN SERVICE. SPEAKER WIRE TYPE SHALL BE THE SAME AS (E). FIELD VERIFY.



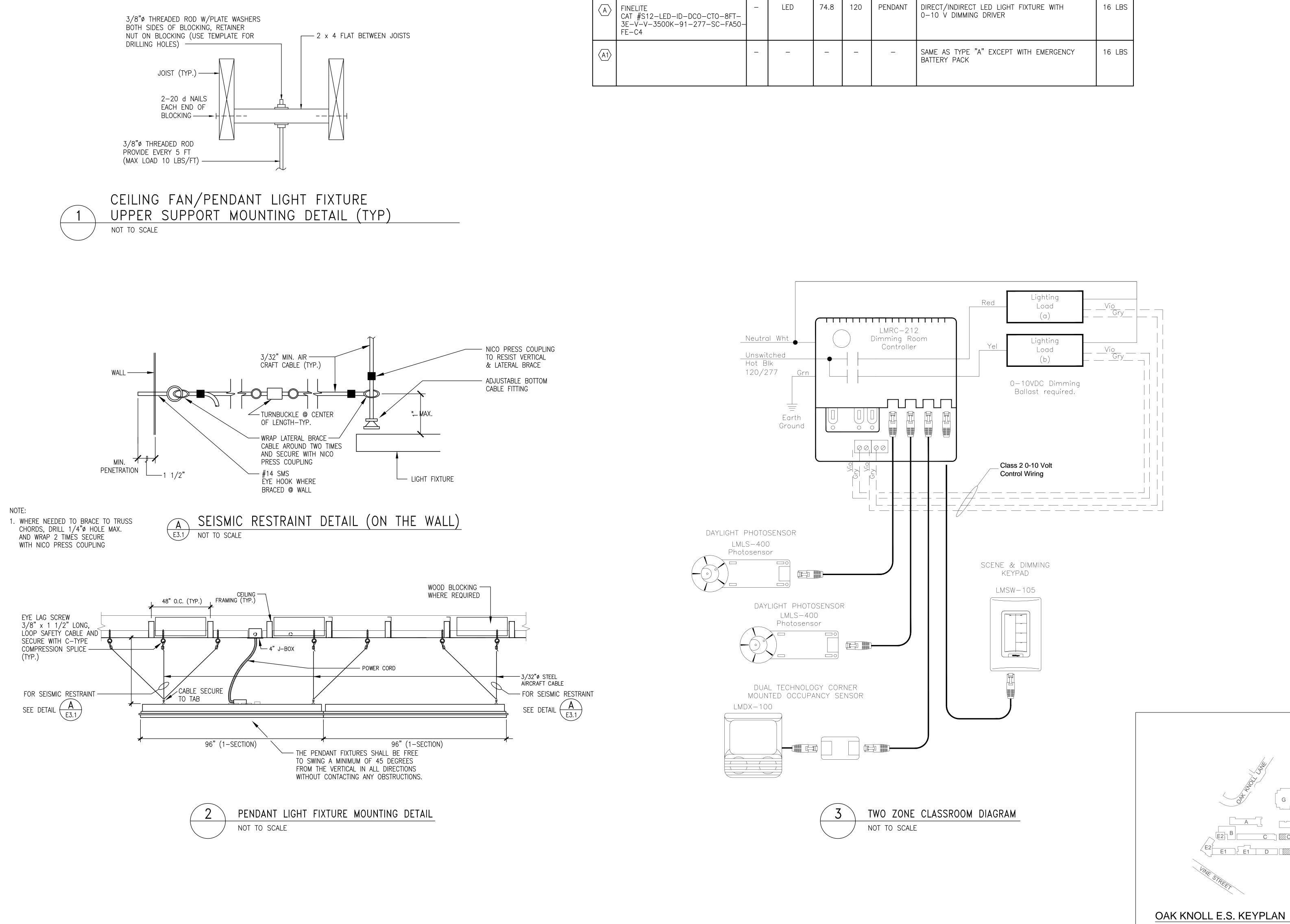




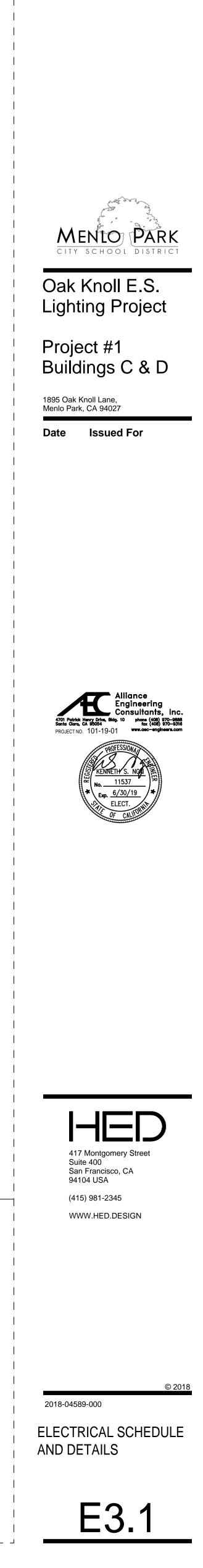
OAK KNOLL E.S. KEYPLAN



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	LIGHTING FIXTURE SCHEDULE											
MARK	MANUFACTURERS MODEL NO.	QTY.	LAMPS TYPE	TOTAL WATTS	VOLTS	MOUNTING	DESCRIPTION AND REMARKS	WEIGHT				
	FINELITE CAT #S12-LED-ID-DCO-CTO-8FT- 3E-V-V-3500K-91-277-SC-FA50- FE-C4		LED	74.8	120	PENDANT	DIRECT/INDIRECT LED LIGHT FIXTURE WITH 0-10 V DIMMING DRIVER	16 LBS				
(A1)		_	_	_	_	_	SAME AS TYPE "A" EXCEPT WITH EMERGENCY BATTERY PACK	16 LBS				



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