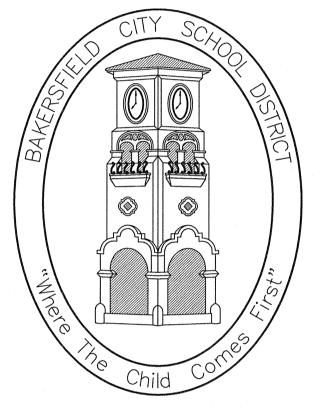
MT. VERNON ELEMENTARY SCHOOL KITCHEN ADDITION BAKERSFIELD CITY SCHOOL DISTRICT 2161 POTOMAC AVENUE BAKERSFIELD CA,

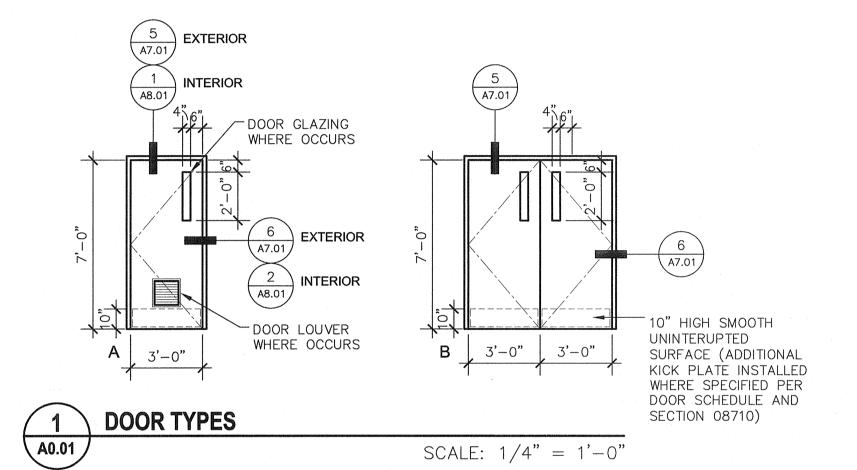


| | Child Corre | | | | LE SHEET LEMENTAL N A D C CITY SCHOOL VENUE BAKE |
|--|---|---|---|--|--|
| ABBREVIATIONS | VICINITY MAP | SHEET INDEX | BUILDING DATA | ARCHITECT'S STATEMENT | |
| ABOVE ABV ABOVE FINISHED FLOOR A.F.F. EACH EA. LAMINATE LAM. SANITARY NAPKIN DISPENSER S.N.D. ACCESSIBLE A.C.C. ELECTRIC ELEC. LAVATORY LAV. SANITARY NAPKIN RECEPTACLE S.N.R. | | SHEET NO. SHEET TITLE | CONSTRUCTION TYPE - VB OCCUPANCY GROUP - A-2 BUILDING AREA: | ARCHITECT'S STATEMENT FOR PLANS PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS | tte: Alme & Address: VERNON TCHE BAKERSFIELL 61 POTOMAC |
| ACOUSTICAL ACOUST.,ACT. ELECTRIC DRINKING FOUNTAIN E.D.F. LEFT HAND L.H. SCHEDULE SCH. ADJACENT ADJ ELEVATION ELEVEL. LINOLEUM LINO. SEAT COVER DISPENSER S.C.D. | | General T1.01 TITLE SHEET | BASIC ALLOWABLE PER TABLE 503 - 6,000 SQ. FT. ACTUAL AREA: 6,629 S.F. (E) MUTI-USE / KITCHEN | THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS | |
| ADJUSTABLE ADJUST. EQUAL EQ. LONG LG. SECTION SECT. AIR CONDITIONING A/C EQUIPMENT EQUIP. SHEATHING SHTG. | | Architectural | 797 S.F. (N) KITCHEN ADDITION 7,426 S.F. TOTAL | DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DOCUMENTS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND HAVE BEEN FOUND TO MEET THE | |
| ANCHOR BOLT AB. EXHAUST EXH. MACHINE SCREW M.S. SHEET METAL S.M. BENT ANCHOR BOLT BAB. EXHAUST FAN E.F. MANUFACTURER MFGR. SHEET METAL & AIR | | A0.01 SCHEDULES | AREA INCREASE CALCULATION: | APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME. | Sheet Project |
| ANODIZED ANOD. EXISTING (E) MATERIAL MAT.,MATL. CONDITIONING CONTRACTOR ARCHITECTURAL ARCH. EXPANSION EXP. MAXIMUM MAX. NATIONAL ASSOCIATION SMACNA | | A1.01 SITE PLAN | If = [F/P25]W/30 (SECTION 506.2) If = [793/97125]28/30 = .53 | THE ITEMS CHECKED BELOW ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE | 12 12 |
| ASPHALT CONCRETE A.C. EXPANSION JOINT E.J. MECHANICAL MECH. SHEET METAL SCREWS S.M.S. EXTERIOR EXT. MEDIUM MED. SHELVES SH. BACKBOARD BACKBRD. MEMBRANE MBNE. SIMILAR SML,,SIM | MAXIMO Himman Hamoutony Sensor () On Committee Processing Processing | A1.02 ENLARGED SITE PLAN | Aa={At + [At x If] + [At x Is]} (SECTION 506.1) Aa={6000 + [6000 x .53] + [6000 x 0]} | IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK.) | /20 / 20 / 31 / 31 / 31 / 31 / 31 / 31 / 31 / 3 |
| ■ BEAM BM FABRIC WALL COVERING F.W.C. METAL MTL. SINK S. | | A1.03 SITE DETAILS A1.04 SITE DETAILS | Aa={6000 + [6000 x .53] + [6000 x 0]} Aa = 6000 + 3180 + 0 Aa = 9108 SQ. FT. | SEE THE SHEET INDEX ON THIS SHEET FOR DRAWINGS OTHER THAN ARCHITECTURAL. APPLICABLE: | lssue Date: Date: Desig |
| BENCH MARK B.M. FACE OF BLOCK F.O.B. METAL PLANAR CEILING M.P.C. SOAP DISPENSER S.D. BETWEEN BTWN. FACE OF CONCRETE F.O.C. METAL TOILET PARTITION M.T.P. SPECIFICATION SPEC. BLOCK BLK. FACE OF STUD F.O.S. MILLIMETER MILL. SPLASH SPL. | 1964年19月1日 日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本 | A2.01 FLOOR PLAN | 9,180 SQ.FT. > 7,426 SQ.FT = O.K. | STRUCTURAL PLUMBING MECHANICAL ELECTRICAL | Agency Approval Stamp: |
| BOTTOM BTM.,BTTM. FACE OF WALL F.O.W. MINIMUM MIN. SPLASH BLOCK S.B. BUILDING BLDG. FACTORY FINISH F.F. MISCELLANEOUS MISC. SQUARE SQ. | 是一种是一种,一个一种,一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种 | A3.01 SECTIONS & ELEVATIONS | INCRECTOR OF RECORD | 7/2/10 | FILE #: 15-6 |
| FEET/FOOT FT. MULLION MULL. STAINLESS STEEL S.S. CABINET CAB. FEMININE NAPKIN DISPOSAL F.N.D. STANDARD STD. | THIS PROJECT SITE | A4.01 ROOF PLAN | INSPECTOR OF RECORD | SIGNATURE OF THE ARCHITECT/ENGINEER NAME TITLE AFFILIATION DATE | IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT |
| CADMIUM CAD. FIBER GLASS F.G.,FIBERGL. NOT IN CONTRACT N.I.C. STEEL STL. CARPET CPT. FINISH FIN. NOT TO SCALE N.T.S. STORAGE STOR. CARRIAGE BOLT C.B. FIRE EXTINGUISHER CABINET F.E.C. NUMBER NO.,#. STIFFENER STIFF. | KITCHEN ADDITION | A7.01 EXTERIOR DETAILS A8.01 INTERIOR DETAILS | THIS PROJECT REQUIRES A CLASS 2 INSPECTOR. THE INSPECTOR OF RECORD SHALL BE DSA | CURTIS FLYNN, ARCHITECT, INTEGRATED DESIGNS BY SOMAM, INC. | OFFICE OF REGULATION SERVICES |
| CARRIAGE BOLT C.B. FIRE EXTINGUISHER CABINET F.E.C. NUMBER NO.,#. STIFFENER STIFF. CAST IRON C.I. FIRE RATED GYP. BD. F.R.G.B. STRUCTURAL STRUCT.,ST. CEILING CLG.,CEL'G. FIXED GLASS F.G. OPPOSITE HAND O.H. SUSPENDED SUSP. | 2161 POTOMAC AVENUE BAKERSFIELD CA, | A8.02 INTERIOR DETAILS | APPROVED AND CONFORM TO THE CLASSIFICATION CRITERIA AS PROVIDED IN INTERPRETATION OF | C-28966 05-31-13 | 03-114521 |
| CEILING DIFFUSER C.D. FLAT HEAD F.H. OPPOSITE OPP. SUSPENDED ACOUSTIC CEILING TILE S.A.T.C. CEILING GRILLE C.G. FLOOR FLR. ON CENTER O.C. SWITCH SW. | KITCHEN ADDITION | A8.03 FIRE RATED DETAILS | REGULATIONS (IR) A-7, DATED SEPTEMBER 18, 2007. | LICENSED NUMBER EXPIRATION DATE | ACT FLS SS |
| CEILING REGISTER C.R. FLOOR DRAIN F.D. OPENING OPG. CEMENT CEM. FLUORESCENT FLUOR. OUTSIDE DIAMETER/DIMENSION O.D. TELEPHONE TEL., TELE. CENTERLINE C.L. FOOTING FTG. OVAL HEAD O.H. THICK THK. | | Structural | THE INSPECTOR SHALL BE EMPLOYED BY THE DISTRICT AND APPROVED BY THE RESPONSIBLE ARCHITECT. | SYMBOLS | TRACKING #: 63321-118 |
| CENTERLINE C.L. FOOTING FTG. OVAL HEAD O.H. THICK THK. CERAMIC TILE C.T. FOUNDATION FDN. OVER (ON) O/ THRESHOLD THR. CIRCUIT CRT. FRAMING FRM'G. OVERFLOW OVFL. TOILET PAPER T.P. CLEANOUT C.O. OVERHAND OH. TOILET PAPER HOLDER T.P.H. | | S1.01 STRUCTURAL DETAILS | | | |
| CLEAR CLR. GAGE/GAUGE GA. TOLERANCE TOL. | GENERAL NOTES | S1.02 STRUCTURAL DETAILS | APPLICABLE CODES: | | Stamp(s): |
| COLD WATER C.W. GALVANIZE GALV. PAINT PT. TRANSFORMER TRANS. COLUMN COL. GALVANIZED IRON G.I. PAIR PR. TYPICAL TYP. COMBINATION/COMBUSTION COMB. GLASS GL. PAPER TOWEL DISPENSER P.T.D. | 4 ALL WORK CHALL CONFORM TO TITLE 04 CALIFORNIA CORE OF | S2.01 STRUCTURAL PLANS | COMPLY WITH PART 1, TITLE 24, 2010 CCR. | A SECTION IDENTIFICATION A3.03 SHEET NUMBER | |
| COMPOSITION, COMPOSITE COMP. GRAB BAR G.B. PLASTIC PLAS. UNDERWRITERS LABORATORY U.L. CONCRETE CONC. GRADE GR. PLATE PL. UNIESS OTHERWISE NOTED U.O.N. | ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS | S3.01 STRUCTURAL DETAILS | A COPY OF TITLE 24 SHALL BE ON SITE AT | DETAIL KEY | |
| CONCRETE MASONRY UNIT C.M.U. GROUND GND. PLATED PLTD. URINAL UR. CONDITION COND. GYPSUM GYP. PLUMBING PLBG. | 2. CHANGES MADE TO THE APPROVED DRAWINGS AND SPECS | Mechanical / Plumbing | ALL TIMES. CONSTRUCTION SHALL COMPLY WITH TITLE 24 CALIFORNIA CODE OF | 1 DETAIL NUMBER | Strict Control of the |
| CONNECTION CONN. GYPSUM BOARD G.B.,GYP.BD. PLYWOOD PLYWD. VENTILATE/VENTILATION VENT. CONSTRUCTION CONST. POINT PT. VENT THROUGH ROOF V.T.R. | SHALL BE MADE BY ADDENDUM OR CHANGE ORDER, APPROVED BY DSA AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R. | MP2.01 MECHANICAL PLAN | REGULATIONS. INCLUDING THE FOLLOWING: | A2.01 SHEET NUMBER | |
| CONSTRUCTION JOINT C.J. POINT OF CONNECTION P.O.C. VERIFY IN FIELD V.I.F. CONTINUOUS CONT. HARDWARE HDW,HDWR. POUND LB.,# VERTICAL VERT. CONTRACTOR CONTR HEAD HD POUND PER SO, FOOT P.S.F. VINYL COMPOSITION THE V.C.T. | 3. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROADS AND | MP3.01 SCHEDULES AND DETAILS | TITLE 24, CCR, PART 2, 2010 CBC (2009 IBC, WITH CALIFORNIA AMENDMENTS). | INTERIOR ELEVATION KEY | |
| CONTRACTOR CONTR. HEAD HD. POUND PER SQ. FOOT P.S.F. VINYL COMPOSITION TILE V.C.T. COORDINATE COORD. HEADER HDR. POUND PER SQ. INCH P.S.I. VINYL WALL COVERING V.W.C. COUNTERSINK CSK. HEIGHT HT.,H. VOLUME VOL. | ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCE | MP4.01 TITLE 24 | TITLE 24, CCR, PART 3, 2010 CEC | A ELEVATION DIRECTION ELEVATION IDENTIFICATION | CENSED ARCHITECT |
| HOLLOW METAL H.M. QUARTER QTR. DEPARTMENT DEPT. HORIZONTAL HORIZ. WATER CLOSET W.C. | 4. CONTRACTOR SHALL PROVIDE ALL TEMPORARY FENCING AS | MP4.02 TITLE 24 | (2008 NEC, WITH CALIFORNIA AMENDMENTS). | D A5.01 B SHEET NUMBER | 33 (2) |
| DEPTH, DEEP D. HOT WATER H.W. RADIUS R.,RAD. WATER PROOF W.P. DETAIL DET.,DTL, HOSE BIBB H.B. RAINWATER LEADER R.W.L. WATER RESISTANT W.R. | REQUIRED TO PROTECT THE GENERAL PUBLIC, SCHOOL STAFF AND SCHOOL CHILDREN FROM ENTERING AND BECOMING | Electrical | TITLE 24, CCR, PART 4, 2010 CMC (2009 UMC, WITH CALIFORNIA AMENDMENTS). | ELEVATION DATUM | No. C 28966 |
| DIAMETER DIA. INCH IN. REFLECTED REFL'D. WIRE GLASS W.GL. | INJURED IN THE AREA OF CONSTRUCTION DURING THE FULL DURATION OF CONSTRUCTION | E1.00 CODES, SYMBOLS, NOTES | TITLE 24, CCR, PART 5, 2010 CPC | *** INDICATES HEIGHT IN RELATION TO 0'-0" | STATE OF ONLY ORNING |
| DIMENSION DIM. INSIDE DIAMETER/DIMENSION I.D. REFRIGERATOR REF. WITH W/O DISPENSER/DISPOSAL DISP. INSULATION INSUL. REINFORCING REINF. WITHOUT W/O | | E1.01 SITE ELECTRICAL PLAN E2.01 ELECTRICAL DEMO & POWER PLANS | (2009 UPC, WITH CALIFORNIA AMENDMENTS). | ROOM NUMBER / FINISH TAG | OF CALL |
| DIVISION DIV. INTERIOR INT. REMOVABLE REMOV. WOOD WD. DOOR DR. REQUIRED REQ'D. WOOD SCREWS W.S. DOUBLE DBL JAMB JB. RESILIENT RES. | | E3.01 LIGHTING & FIRE ALARM PLANS | TITLE 24, CCR, PART 6, 2010 CEC | OFFICE - ROOM NAME | Job No.: |
| DOUBLE DBL JAMB JB. RESILIENT RES. DOWN DN. JOINT JT. REVISE, REVISION REV. DOWNSPOUT D.S. RIGHT HAND R.H. | | E4.01 SINGLE LINE DIAGRAM & DETAILS | TITLE 24, CCR, PART 9, 2010 CFC (2009 IFC, WITH CALIFORNIA AMENDMENTS). | 100 ROOM NUMBER | 3990 |
| DRAWING DRWG. ROOF DRAIN R.D. DRINKING FOUNTAIN D.F. RUBBER TOPSET BASE R.T.B. | | E5.01 FIRE ALARM SINGLE LINE DIAGRAM | TITLE 19, CCR. | WINDOW SCHEDULE KEY | Sheet No.: |
| | | E6.01 T-24 COMPLIANCE DOCUMENTATION | NFPA 72, 2010 EDITION | | |
| | | | (AS PER CA AMENDMENTS) CFC CHAPER 14 — FIRE SAFETY DURING | (1) <u>KEYNOTE SCHEDULE KEY</u> | T1.01 |
| | | | CONSTRUCTION AND DEMOLITION | 201 DOOR SCHEDULE KEY | Release: - |
| | | | | G:\2011frs\11-3990\Sheets\3990-T101.dwg | CURTIS MCNALLY |

| | | | , | | | | | | OOR | SCH | HEDU | JLE | | | | | | |
|------|------|-----------------|--------|-----|-------|------|-----|------|--------|-------------|------------------------------------|---------|-----------|-----------|-----------|-----------|-----------|-------------------|
| DOOR | TYPE | DOOR OPENING | | DO | OR | | FR | AME | GLASS | LOUVER | LOUVER U/L HARDWARE SIZE RAT'G NO. | DETAILS | | | SIGNAGE | | REMARKS | |
| NO. | NO | SIZE | THK | MAT | CORE | FIN. | MAT | FIN | SIZE | SIZE | | NO. | HEAD | JAMB | THRESHOLD | PULL | PUSH | |
| 1 | Α | 3'-0"x7'-0" | 1 3/4" | НМ | INSUL | P55C | НМ | P55C | 4"x24" | | | 1 | 5 / A7.01 | 6 / A7.01 | 2 / A7.01 | SEE PLANS | SEE PLANS | PANIC HARDWARE |
| 2 | Α | 3'-0"x7'-0" | 1 3/4" | НМ | INSUL | P55C | НМ | P55C | 4"x24" | | MIN. | 4 | 1 / A8.01 | 2 / A8.01 | 7 / A7.01 | SEE PLANS | SEE PLANS | PANIC HARDWARE |
| 3 | Α | 3'-0"x7'-0" | 1 3/4" | НМ | INSUL | P55C | НМ | P55C | 4"x24" | | | 2 | 1 / A8.01 | 2 / A8.01 | 7 / A7.01 | SEE PLANS | SEE PLANS | |
| 4 | В | PR. 3'-0"x7'-0" | 1 3/4" | НМ | INSUL | P55C | НМ | P55C | 4"x24" | · | | 5 | 5 / A7.01 | 6 / A7.01 | 2 / A7.01 | SEE PLANS | SEE PLANS | |
| 5 | Α | 3'-0"x7'-0" | 1 3/4" | НМ | INSUL | P55C | НМ | P55C | 4"x24" | | | 2 | 1 / A8.01 | 2 / A8.01 | | SEE PLANS | SEE PLANS | , |
| 6 | Α | 3'-0"x7'-0" | 1 3/4" | НМ | INSUL | P55C | НМ | P55C | | 12"x12" | | 3 | 1 / A8.01 | 2 / A8.01 | - | SEE PLANS | SEE PLANS | UNDER CUT DOOR 1" |
| 7 | A | 3'-d' x7'-0" | 1314" | HM | 1252 | 9556 | HM | P55C | . ~ | | 60mm | 4 | 1/48.01 | 2/48.01 | 7/27.01 | SEE 42.01 | SE A2:01 | PANIC HARDWARE @ |

PUSH SIDE & PROVINE SHOOTH PLATE @ PULL SIDE TO ALLOW ONE WAY OPERATION

| | | | | *** | | | | | | | | | | | | | | | | | (EXITOPLY) |
|------|------------------------|-------|------|-----|------|------------|-----|-----------------------------|-----|-----------------|-----|-----|---------|-----|-----|-----|-----|-----|-----|--|------------|
| | | | | M | IAT | ER | IAL | Al | ND | IN ⁻ | | RIC | R | FIN | IIS | H S | CF | | UL | PERSONAL AMERICAN AME | |
| ROOM | ROOM NAME | FL | OOR | · | BASE | E WAINSCOT | | WALLS NORTH EAST SOUTH WEST | | CEILING | | | REMARKS | | | | | | | | |
| N0. | | MAT | FIN | MAT | FIN | HT | MAT | FIN | HT | MAT | FIN | MAT | FIN | MAT | FIN | MAT | FIN | MAT | FIN | HT | · |
| 001 | VESTIBULE | VCT | FF | RTB | FF | 4" | | | | GB | Р | GB | Р | GB | P | GB | Р | GB | Р | 8'-0" | |
| 002 | REFRIGERATOR / FREEZER | CONC. | SEAL | | | | | | | FF | FF | FF | FF | FF | FF | FF | FF | FF | FF | PER MANUF. | |
| 003 | HALL | VCT | FF | RTB | FF | 4" | | | | GB | Р | GB | Р | GB | Р | GB | P | GB | Р | 8'-0" | |
| 004 | STORAGE | VCT | FF | RTB | FF | 4" | | | | GB | Р | GB | Р | GB | Р | GB | Р | GB | Р | 8'-0" | |
| 005 | TOILET | SVC | FF | svc | FF | 6" | FRP | FF | 48" | GB | Р | GB | P | GB | Р | GB | Р | GB | Р | 8'-0" | |



GENERAL NOTES

A. ALL FLOOR PLAN ROOM NAMES AND NUMBERS

- ARE FOR CONSTRUCTION INFORMATION ONLY. THE CONTRACTOR SHALL COORDINATE ACTUAL ROOM NAMES & NUMBERS WITH THE OWNER AND ARCHITECT PRIOR TO ORDERING ANY ROOM SIGNAGE.
- B. PROVIDE ROOM IDENTIFICATION SIGNAGE AT EVERY ROOM ENTRANCE.
- C. PROVIDE A TACTILE EXIT SIGN AT EVERY BUILDING EXIT.
- D. PROVIDE A BUILDING NAME AND INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) AT THE PRIMARY BUILDING ENTRANCE.
- E. ALL DOOR HARDWARE TO BE MOUNTED @ CENTER LINE OF 34" ABOVE FINISH FLOOR.
- F. PROVIDE ADA COMPLIANT LEVER HARDWARE AT ALL DOORS NOT PROVIDED WITH PANIC HARDWARE. SEE HARDWARE SPEC'S SECTION
- G. PROVIDE ADA COMPLIANT SIGNAGE AT RESTROOMS PER DETAIL 6/A8.01
- H. PROVIDE 10"HIGH ADA COMPLIANT KICKPLATE ON PUSH SIDE OF ALL DOORS. SEE 1/A0.01 DOOR TYPES

ABBREVIATIONS

DOOR AND WINDOW SCHEDULES:

PR = PAIR

HM = HOLLOW METAL ALUM. = ALUMINUM INSUL = INSULATED CORE

DUAL = DUAL PANE GLAZING T.O.W. = TOP OF WINDOW

RTB - RUBBER TOP BASE GB - GYPSUM BOARD

P - PRIME AND PAINT PLY - PLYWOOD

MATERIAL AND FINISH SCHEDULE: VCT - RESILIENT TILE FLOORING SV - SHEET RESILIENT FLOORING CT - CERAMIC TILE CONC - CONCRETE

ACT - ACOUSTICAL CEILING TILE SVC - SHEET VINYL COVE

TB - VINYL COVERED TACKBOARD

FF - FACTORY FINISH. SEAL - SEALER MDF - MEDIUM DENSITY FIBER BOARD.

FRP - FIBER REINFORCED POLYESTER PANELS

P = PRIME & PAINT WD = WOODSC = SOLID CORE FF = FACTORY FINISH

SIN. = SINGLE

PROVIDE DOOR CLOSERS ON DOORS AS SPECIFIED PER SPEC. SECTION 08710

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SCHOOL LON

Agency Approval Stamp:

SCE E

FILE #: 15-6 IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

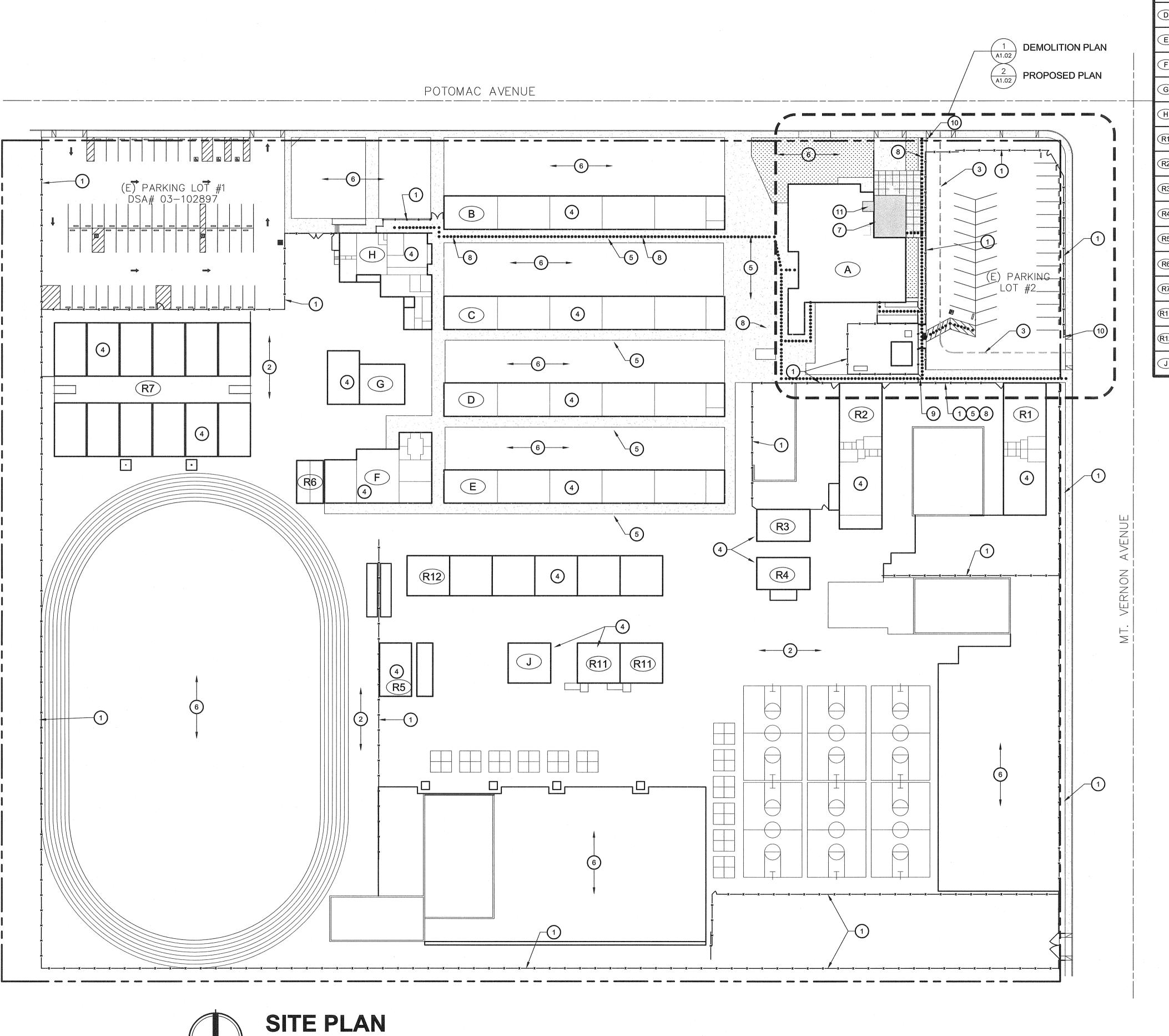
TRACKING #: 63321-118

Stamp(s):



3990

A0.01



KITCHEN ADDITION

| | BUILDI | NG KEY | KEY NOTES | Ownership of Documents This document, the ideas and des | igns |
|--------------|-----------------|----------------------------------|---|--|---------------------------|
| # | DSA APPLICATION | BLDG' USE | 1. (E) CHAIN LINK FENCE AND GATE TO REMAIN | incorporated herein, as an instrume Professional Service is the proper Integrated Designs by SOMAM I | ent of ty of nc. |
| 4) | 19177 | MULTI-USE, CAFETERIA, KITCHEN | 2. (E) AC PAVING TO REMAIN 3. (E) FIRE TRUCK ACCESS LANE | and is not to be used, in whole or in p any other project without written autho © COPYRIGHT 2012 | part for |
| 3) | 3252 | 5 CLASSROOMS TOILET | 4. (E) BUILDING TO REMAIN (NO WORK) | .: | |
| <u> </u> | 3252 | 5 CLASSROOMS TOILET | 5. (E) CONCRETE WALK TO REMAIN (NO WORK) 6. (E) TURF AND IRRIGATION TO REMAIN | M, Inc. | |
| \sum_{i} | 5616 | 5 CLASSROOMS TOILET | 7. AREA OF NEW CONSTRUCTION, SEE SHEET A1.02 FOR | | |
| | 5616 / 39113 | 5 CLASSROOMS TOILET | ADDITIONAL INFORMATION 8. ACCESSIBLE PATH OF TRAVEL. SEE ACCESSIBILITY | MAN. | |
| | 5616 | 4 MUSIC CLASSROOMS | 9. REMOVE (E) GATE AND PROVIDE (N) 48" WIDE CHAIN | UCTION MANAG 93710 design@somam.com | |
| <u> </u> | 28584 | COUN./ ACAD / COACH | LINK GATE W/ PANIC HARDWARE PER DETAIL 3/A1.04 10. (N) SITE ENTRANCE SIGN PER DETAIL 3/A1.03 | I- CONSTRUCTION I- CONSTRUCTION O, California 93710 7 E-Mail: designes S.com Revision Description: | |
| - | 3252 / 32802 | ADMINISTRATION | 11. (E) STAFF RESTROOM TO BE MODERNIZED. SEE A2.01 FOR ADDITIONAL INFORMATION | | |
| 21) | 32682 | 2 KINDERGARTEN CLASSROOMS | | VTERIOR DESIGN Sulte 130 – Fresno Fax (559) 436–0887 www.integrateddesigns. Revision: Revision: | |
| 2 | 27729 / 30116 | 2 KINDERGARTEN CLASSROOMS | | TERIOR, Suite 130 (Fax (559)) www.integrat | |
| 3 | NON- CONFORM. | CPU LAB | ACCESSIBILITY NOTES | Date: | |
| <u>4</u> | NON- CONFORM. | IMC | ARCHITECT HAS INSPECTED THE PATH OF TRAVEL | NEERING 6011 N. F 436-0881 | |
| 35) | NON- CONFORM. | KINDERGARTEN MAGNET | (P.O.T.) AS INDICATED ON THE PLANS AND HAS FOUND IT TO BE, OR HAS INDICATED ON THE PLANS REMEDIAL WORK WHICH WOULD CAUSE IT TO BE, A BARRIER-FREE ACCESSIBLE ROUTE: | (559) | |
| <u>6</u> 6€ | 30420 | RELO TOILETS | AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE | TURE - F | |
| 27) | 03-102897 | 12 RELO CLASSROOMS | FREE OF ABRUPT LEVEL CHANGES EXCEEDING ¹/₂" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL | ARCHITECTURE Pho | |
| 11) | 54429 | 2 RELO. CLASSROOMS | CHANGES EXCEEDING ¹/₄" WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING | AR Revision D | |
| 12) | 30402 | 6 RELO. CLASSROOMS | SURFACE WITH A RUNNING SLOPE OF 1:20 IR LESS, UNLESS | | |
| | 03-102897 | TOILETS | OTHERWISE INDICATED, AND A CROSS SLOPE OF 1:50 OR LESS | Revision: | |
| , | | | IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE | | |
| | | | IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE | 우 0 | ICT CA |
| | | | | | ISTR FIFI |
| | | | LOCAL FIRE AUTHORITY REVIEW | | $ \alpha$ |
| | | | Local Fire Authority (LFA) to mark each item (Yes, No or Not Applicable) and sign below. Additional information may be noted in the comment section below. | E PLAN EMENTA | SCHOOL IF RAKE |
| | | | Yes No N/A Access Roads, Fire Hydrants and Wildland-Urban Interface Access roads and gate entrances are in accordance with Title 19, California Code of Regulations Div. 1, Chap. 1, Sub Chap 1, Article 3 3.04 (Access | | CITY SC |
| | | | Roads) and 3.16 & 2007 CFC 503.5.2 (Gate Entrances) to school sites. Fire flow, fire hydrant location and distribution are in accordance with 2007 California Fire Code, 508.3 & Appendix BB (Fire Flow) and Appendix CC (Hydrant Locations) Fire Hydrant type meets LFA or local water purveyor's make and model | | IELD |
| | | | requirements. Project is in a Wildland-Urban Interface (WUI) Fire Area. (2007 CBC Ch. 7A) Automatic Fire Sprinkler Systems The location(s) of the proposed post indicator valve (PIV) and fire department | SS I | BAKERSFIELD 81 POTOMAC |
| | | | connection (FDC) meets the requirements of this jurisdiction at this time. The location(s) of the detector check valve assembly (DCVA) backflow preventer meets the requirements of this jurisdiction at this time. The fire pump assembly and/or water tank(s) meets the requirements of this | Title: | BAKE |
| | | | jurisdiction at this time. Elevators Elevators Elevators that do not have cabs sized per 2007 CBC Code requirements have identified and the LFA approves the use of stairways for emergency | Sheet T | 27 |
| | | | Project Name: MT. VERNON ELEMENTARY SCHOOL DSA App No: 03-114521 | 0/12 | |
| | | | Project Location: 2161 POTOMAC AVENUE BAKERSFIELD CA, Local Fire Authority: | Issue Date: 07/20 Date: 07/30 Designer: | Si Si |
| | | | Address: City/State/Zip: Phone Number: Date: | Agency Approval Stamp: | |
| | | | Approval Signature: | FILE #: 15-6 IDENTIFICATION STAMP | |
| | | | Comments: | DIV. OF THE STATE ARCHITE OFFICE OF REGULATION SERVI | CES |
| | | | A signature above signifies that the LFA has reviewed the proposed locations and was consulted regarding the placement/design of the PIV(s), FDC(s), DCVA(s), and fire pupmp(s). The current configuration shown, as of this date, meets with their current standards. | 03-114521 A FLS SS N DATE 8 (1/27) | 1 |
| | | | PARKING CALCULATION | TRACKING #: 63321-118 | |
| | | | EXISTING PARKING LOT #1 (03-102897) | Stamp(s): | |
| | | | TOTAL STALLS PROVIDED 57 STALLS ACCESSIBLE STALLS REQUIRED - 3 (1 VAN STALL) ACCESSIBLE STALLS PROVIDED - 3 (1 VAN STALL) | | |
| | | | EXISTING PARKING LOT #2 TOTAL STALLS PROVIDED 34 STALLS | | |
| | | | ACCESSIBLE STALLS REQUIRED - 2 (1 VAN STALL) ACCESSIBLE STALLS PROVIDED - 2 (1 VAN STALL) | | |
| | | | | CENSED ARCHIPECT | |
| | | | LEGEND | ★ No. C 28966 ★ | |
| | | | INDICATES EXISTING BUILDING TO REMAIN (NO WORK) | CALIFORNIE CALIFORNIE | |
| | | | | | |

INDICATES AREA OF NEW KITCHEN ADDITION

(E) FIRE TRUCK ACCESS LANE TO REMAIN

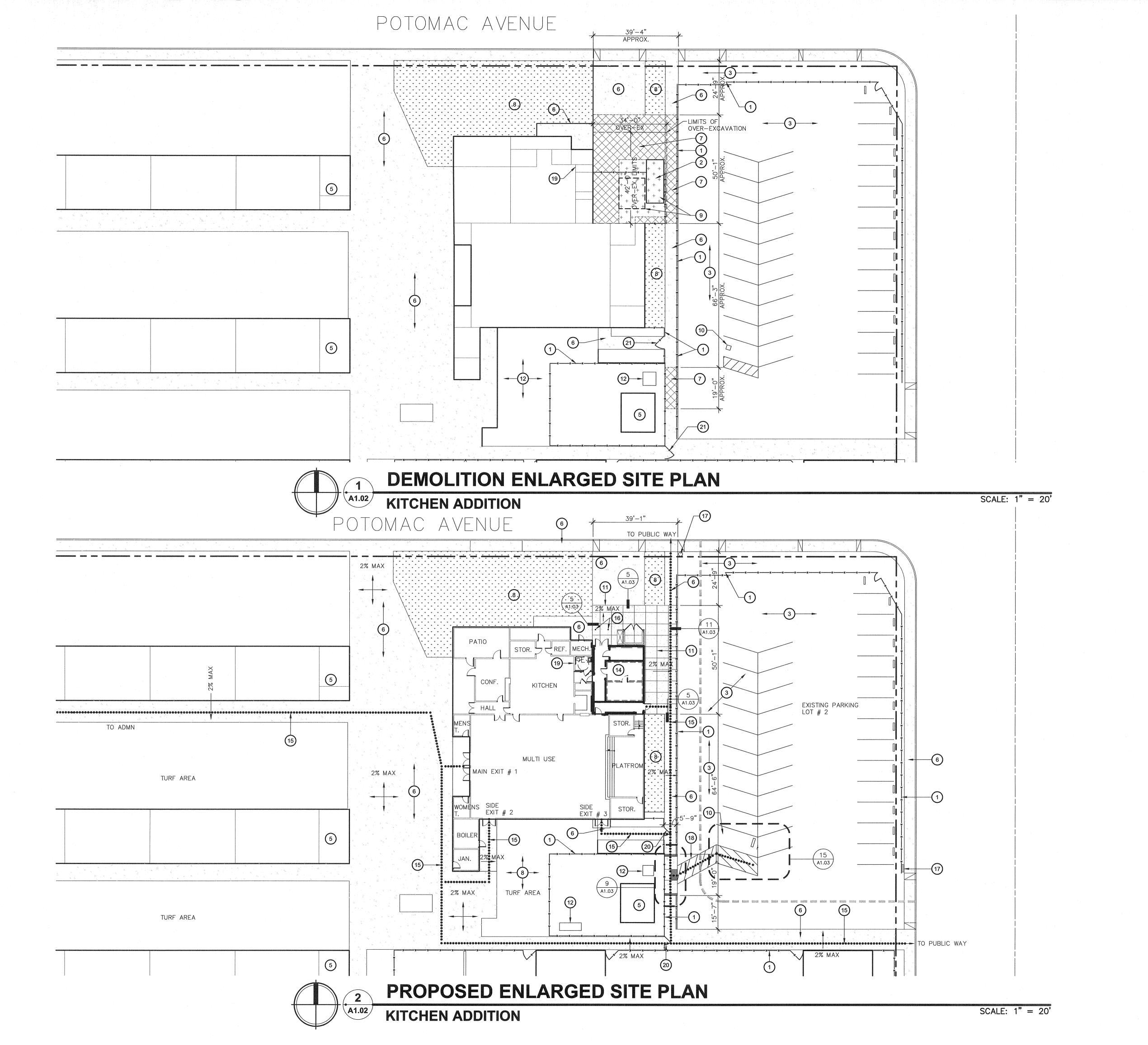
G:\2011frs\11-3990\Sheets\3990-A101.dwg CURTIS MCNALLY

• • • • • • • • ACCESSIBLE PATH OF TRAVEL, SEE ACCESSIBILITY NOTES ABOVE.

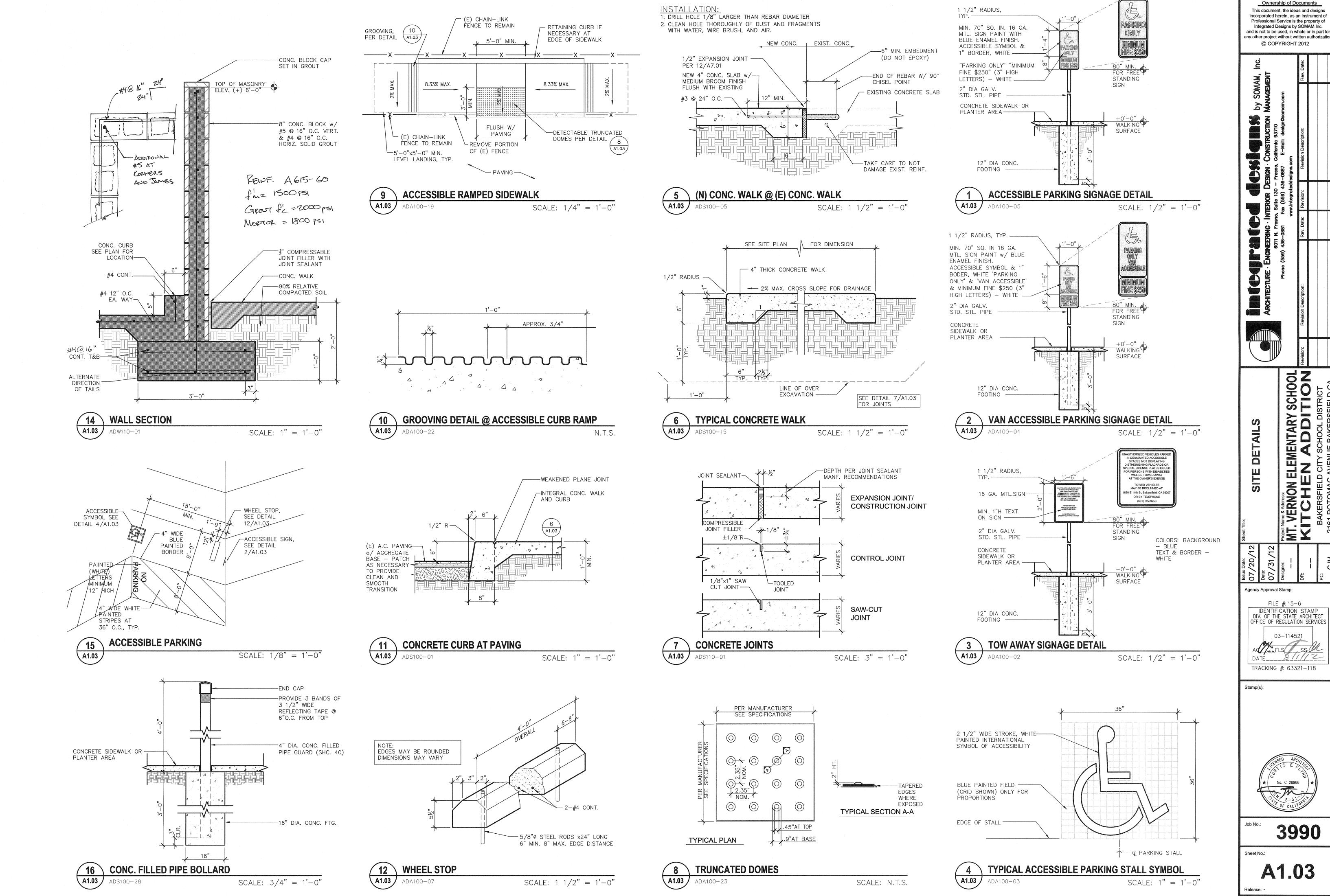
SCALE: 1" = 40'

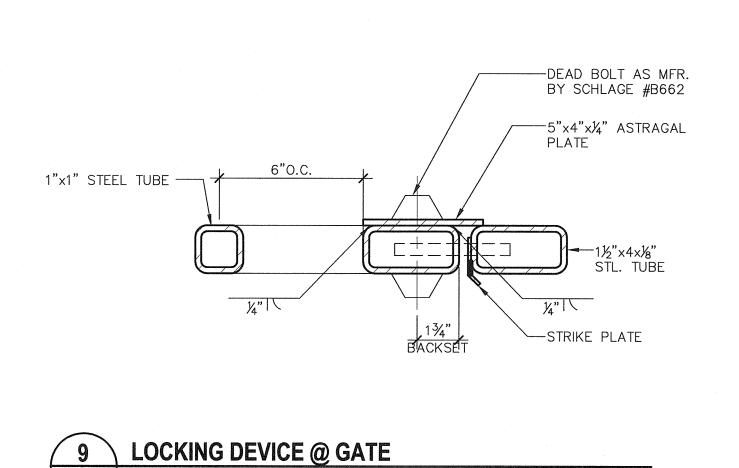
3990

A1.01



| KEY NOTES | | s docume | ship of Dont, the idea | as and | design |
|---|--|--|--|--|--|
| E) CHAIN LINK FENCE AND GATE TO REMAIN E) AC PAVING TO BE SAW CUT AND REMOVED | Pro Int and is | fessional egrated [not to be | nerein, as a Service is Designs by used, in w without w | the pro SOMA hole or | perty o M Inc. in par |
| E) AC PAVING TO REMAIN (NO WORK) E) FIRE TRUCK ACCESS LANE | | © COF | PYRIGHT | 2012 | |
| E) BUILDING TO REMAIN (NO WORK) | 2 | e | | Rev. Date: | |
| E) CONCRETE WALK TO REMAIN (NO WORK) | MAM | AGEMEN | | Re | |
| E) CONCRETE WALK TO BE SAWCUT AND REMOVED E) LANDSCAPE AND IRRIGATION TO REMAIN | by SOMAM | ANAG | m.com | | The second secon |
| E) COOLING UNIT AND STORAGE CONTAINER TO BE REMOVED FROM SITE BY OWNER | | 3 3 | design@somam.com | | |
| E) PARKING STALLS TO BE MODIFIED PER 15/A1.03 | | TRUCTION 1 | | scription: | T THE THE THE THE THE THE THE THE THE TH |
| N) CONCRETE WALK, SEE DETAIL 6/A1.03 | | CONS | E-Mail: | Revision Description: | The state of the s |
| E) ELECTRICAL EQUIPMENT TO REMAIN, SEE ELECTRICAL DRAWINGS AND SPECS FOR ANY ADDITIONAL WORK | | DESIGN (| , Ö | Revi | |
| IMITS OF OVER-EXCAVATION AND RECOMPACTION, SEE DETAIL 6/A1.03 | | : c | Fax (559) 436–0887 ww.integrateddesigns. | Revision: | |
| ROPOSED KITCHEN ADDITION, SEE SHEET A2.01 FOR ADDITIONAL INFORMATION | | RING · INTERIOR | Fax (www.in | | |
| ATH OF TRAVEL N) STEEL PIPE BOLLARDS, SEE DETAIL 16/A1.03 | | NG. | 0881 | Rev. Date: | |
| N) TOW AWAY SIGN PER DETAIL 3/A1.03 | S | | 436- | | |
| N) 4" WIDE STRIPING. | | ES | Phone (559) | | |
| N) ACCESSIBLE GATE PER DETAIL 3/A1.04 | | Z Z | Phon | | |
| REMOVE (E) GATE. SEE 2/A1.02 FOR (N) WORK | | ARCHITECTURE - ENGINEED | | escription: | |
| EXIT ANALYSIS | | AR | | Revision Description | |
| A: TI-PURPOSE : 3072 SF FORM : 448 SF | | | | :: | |
| UPANT LOAD ΓΙ-PURPOSE 3072 ÷ 7 = 439 FORM 448 ÷ 15 = 30 | | | | Revision: | |
| TOTAL = 469 THAN 500 2 EXITS REQUIRED EE EXITS PROVIDED | and the second s | 1. | | | ICT |
| EXIT : .5 = 234.5 5 x .2 = 46.9" REQUIRED | SITE PLAN | | Y SCHO | | CITY SCHOOL DISTRICT |
| TING / PROVIDED = 144" | | | | | 100 00 |
| EXIT (EACH) 25 = 117.25 5 x .2 = 23.45" REQUIRED | 10 | | | | SCH |
| TING PROVIDED : 72" | | | ELEMENTARY | | CITY |
| CCESSIBILITY NOTES | ARGED | | 3 | | |
| HITECT HAS INSPECTED THE PATH OF TRAVEL T.) AS INDICATED ON THE PLANS AND HAS FOUND IT | | | Address | O | BAKERSFIE |
| E, OR HAS INDICATED ON THE PLANS REMEDIAL K WHICH WOULD CAUSE IT TO BE, A BARRIER-FREE | | | Project Name & | | BAK |
| ESSIBLE ROUTE: AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE | Sheet Title: | | Project M | Y | |
| • | ά | | The state of the s | | HELITATION CONTRACTOR AND ADDRESS. |
| FREE OF ABRUPT LEVEL CHANGES EXCEEDING ½" IF | /12 | /12 | | | |
| BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 4" | e Date: /20/12 | ate: 7/31/12 | esigner: | Ä | Ö |
| BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL | Issue Date: 07/20/12 | Date: 07/31/12 | Designer: | DR: | PC: |
| BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING \(\frac{1}{4} \)" WITH A FIRM, STABLE, AND SLIP RESISTANT SURFACE WITH A RUNNING SLOPE OF 1:20 IR LESS, UNLESS OTHERWISE INDICATED, AND A CROSS SLOPE OF 1:50 OR LESS | 188ue Date: 07/20/12 | Approva FILE | I Stamp: = #: 15- | -6 STA | MP |
| BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 4" WITH A FIRM, STABLE, AND SLIP RESISTANT SURFACE WITH A RUNNING SLOPE OF 1:20 IR LESS, UNLESS OTHERWISE INDICATED, AND A CROSS SLOPE OF 1:50 | 188ue Date: 07/20/12 | Approva FILE IDENTIF /. OF TH | I Stamp: == #: 15- | 6 STA ARCH | MP IITECT |
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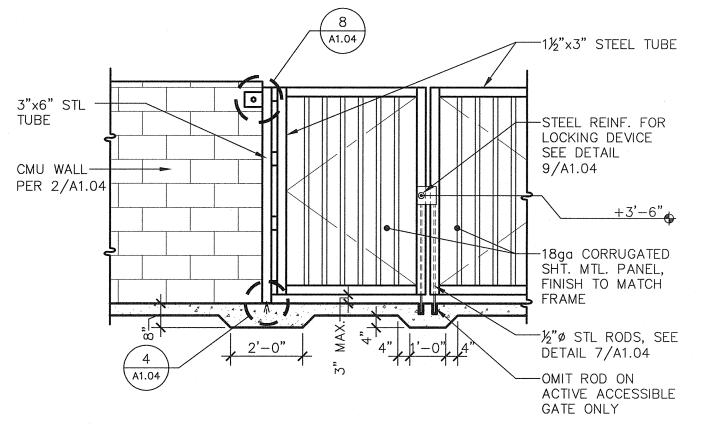




SCALE: 3" = 1'-0"

A1.04

ADS100-39

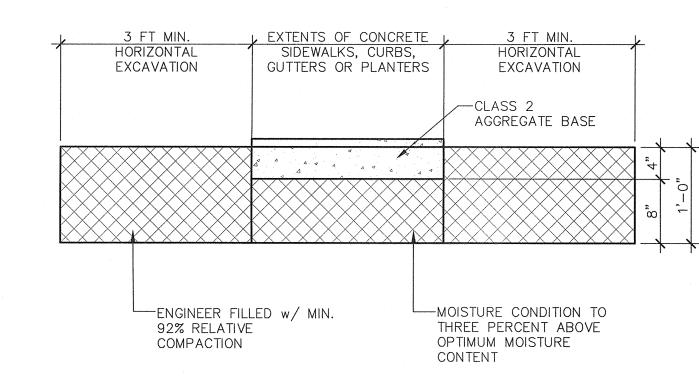


SCALE: 3/8" = 1'-0"

TUBE STEEL GATE @ CMU WALL

\ A1.04 /

ADS100-44



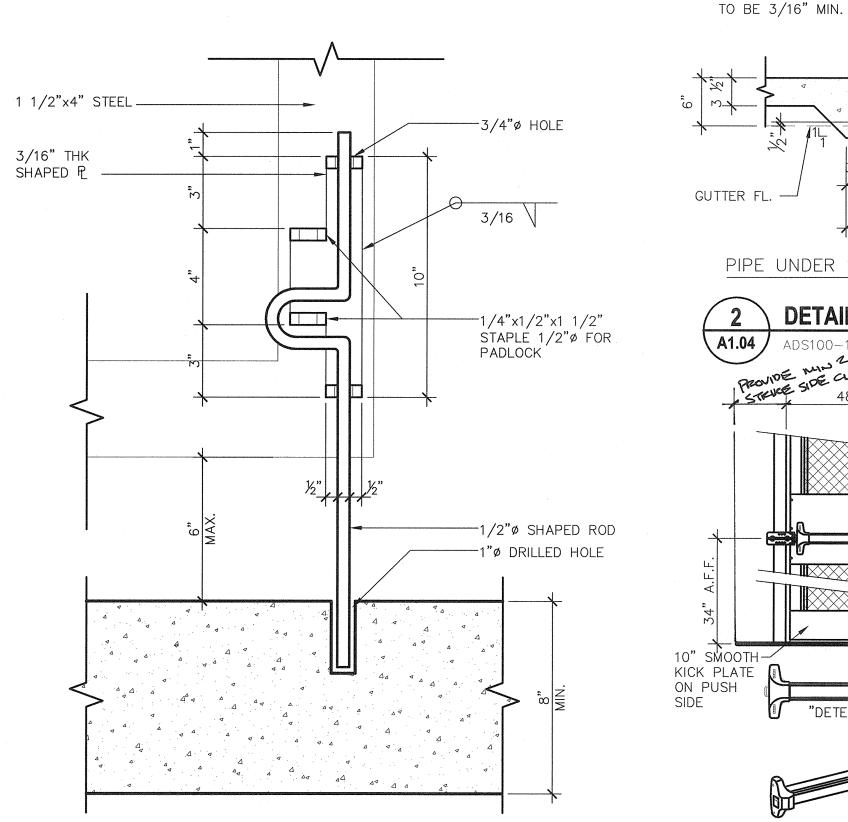


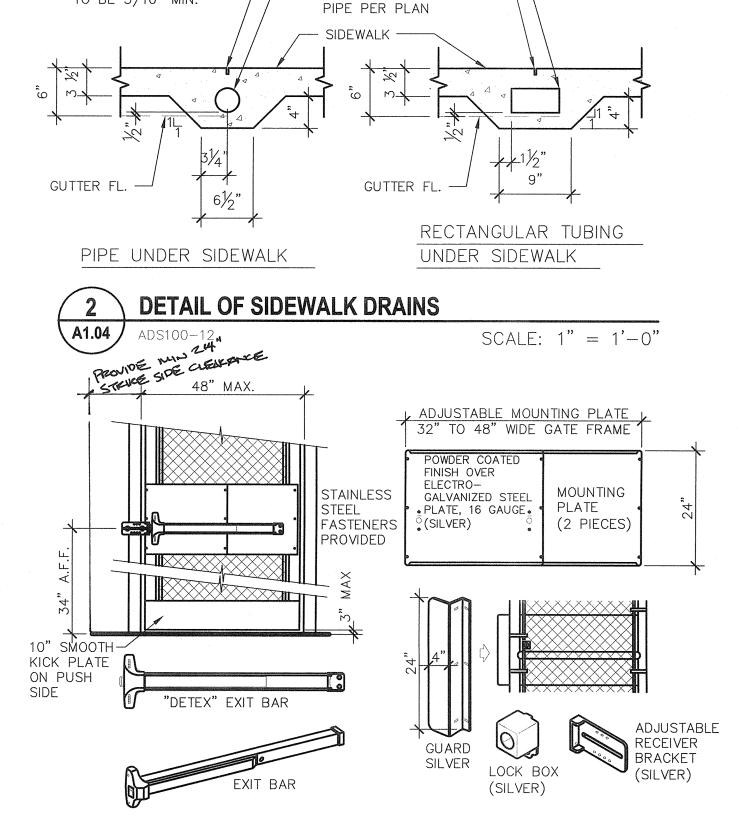
3" x 6" RECTANGULAR STEEL TUBING -

— TOOLED JOINT —

- 3" DIA. DRAIN

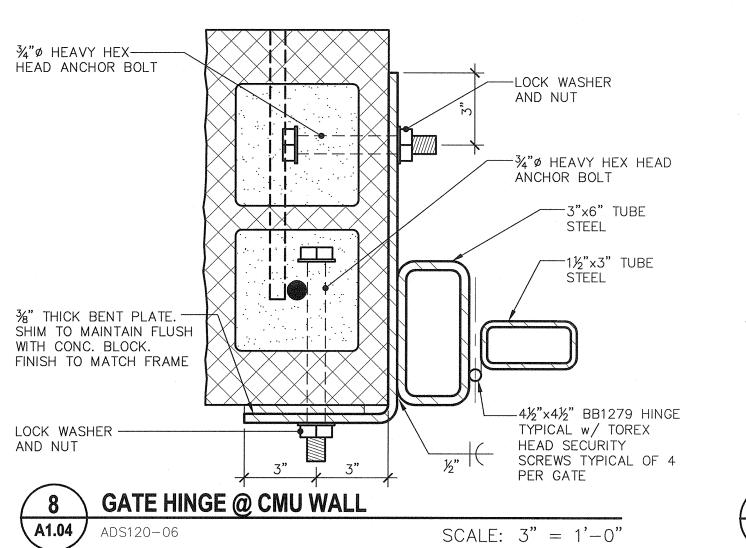
*WALL THICKNESS





PANIC HARDWARE AT GATE

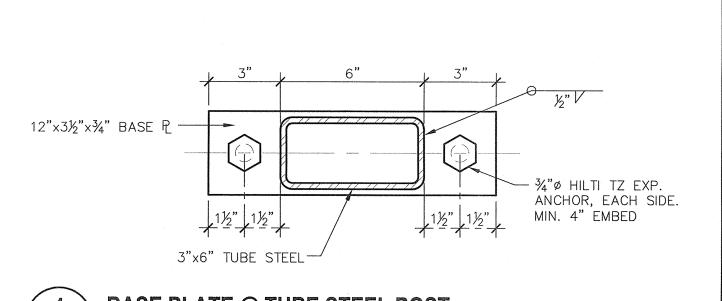
A1.04 ADY100-02



SCALE: 3'' = 1'-0''

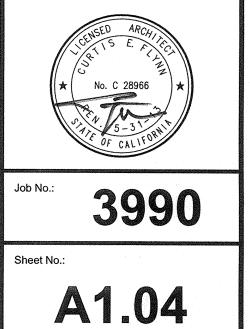
SLIDE BOLT DETAIL

A1.04 ADS120-02



SCALE: $1 \frac{1}{2} = 1' - 0''$





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any other project without written authorization

SCHOOL

MENTARY

MT. VERNON ELE

K. T. C. L. E. R. BAKERSFIELD CITY

S E

Agency Approval Stamp:

FILE #: 15-6

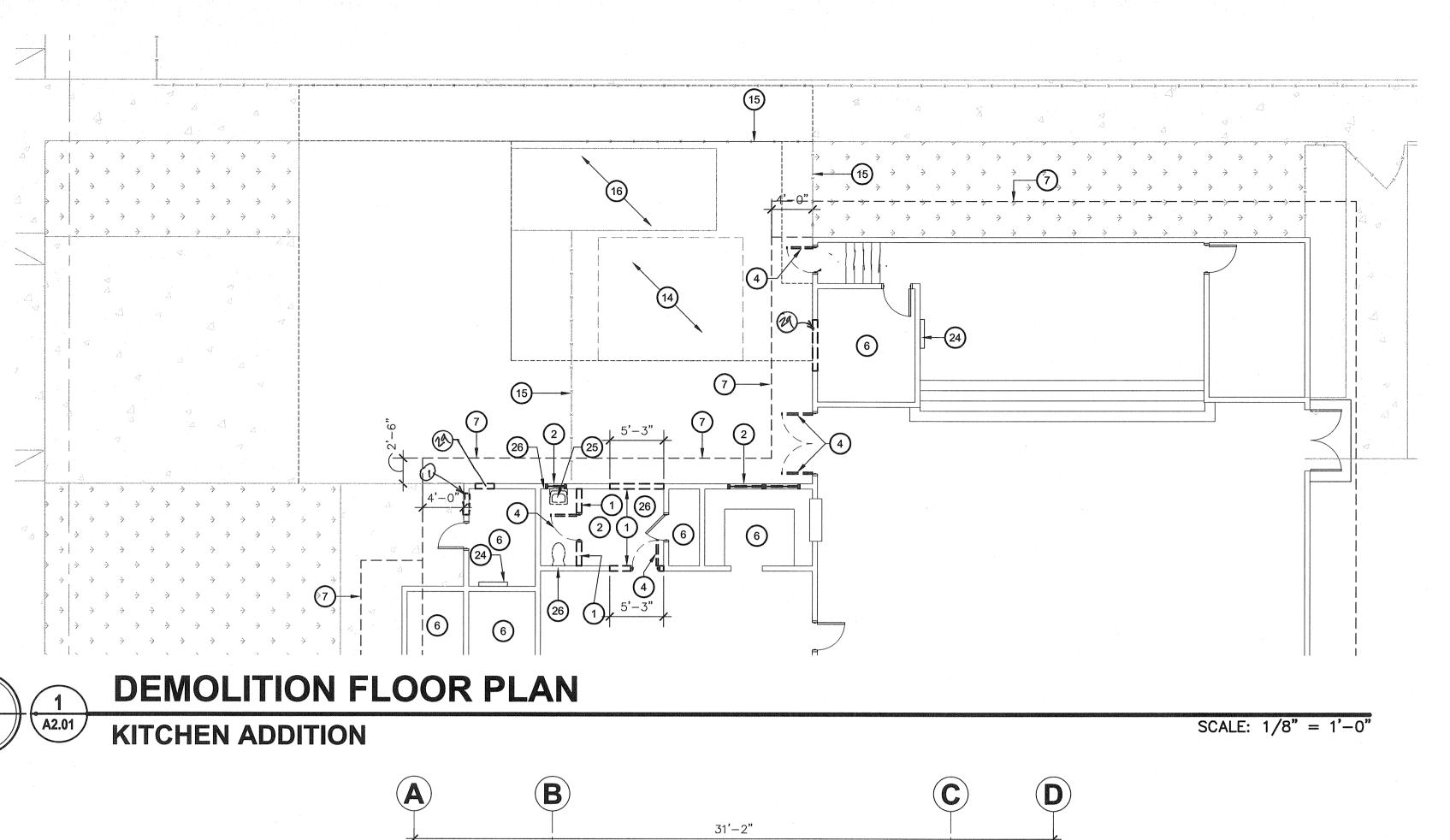
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

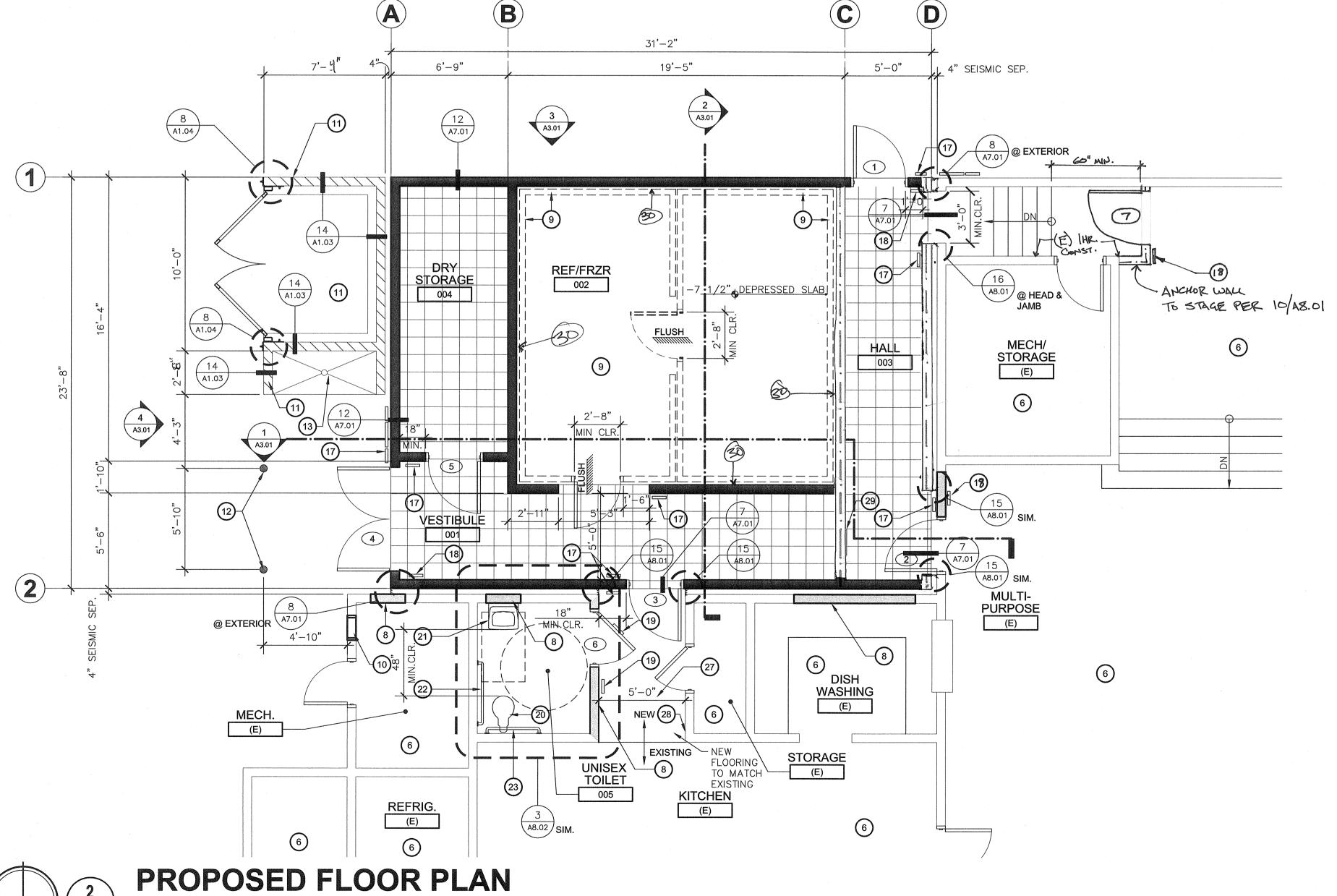
03-114521

TRACKING #: 63321-118

Stamp(s):

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KITCHEN ADDITION

DEMOLITION NOTES

- DIMENSIONS INDICATED TO EXISTING WALL STUDS. CONCRETE COLUMNS AND EXTERIOR WALLS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO PROCEEDING WITH ANY WORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT OF ANY EXISTING CONDITIONS WHICH MAY CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER, REPLACE ANY ACOUSTICAL TILE, GYPSUM BOARD, CEMENT PLASTER, WOOD VENEER FLOOR TILES, CARPET AND ANY OTHER FINISHES, DAMAGED DURING THE COURSE OF CONSTRUCTION OF THE MODERNIZATION PROJECT. THE WORK SHALL BE REPAIRED IN KIND, TEXTURED AND FINISHED TO MATCH EXISTING/ADJACENT SURFACES.
- CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER. PATCH, PAINT, RE-TEXTURE, SACK, OR OTHERWISE BLEND IN ANY HOLES OR GOUGES IN WALL, CEILING OR FLOOR SURFACES CAUSED BY THE REMOVAL RELOCATION OR INSTALLATION OF WALL, FLOOR OR CEILING MOUNTED ITEMS, UNLESS AFFECTED SURFACE IS SCHEDULED TO RECEIVE NEW FINISH. SEE MECHANICAL AND ELECTRICAL FOR MORE INFORMATION.
- ALL EXISTING FIRE EXTINGUISHERS, WALL MOUNTED ACCESSORIES, OUTLETS, BRACKETS AND SCREWS TO BE REMOVED AND REINSTALLED AFTER NEW INTERIOR/EXTERIOR WALL FINISH HAS BEEN INSTALLED. CONTRACTOR TO FIELD VERIFY PRIOR
- ALL EXISTING TOILET AND CLASSROOM ACCESORIES (eg. TOILET PAPER DISPENSER, PAPER TOWEL DISPENSER, SOAP DISPENSER, ETC.) TO BE REMOVED & RETURNED TO OWNER.
- "INVESTIGATIVE DEMOLITION" MEANS THE CONTRACTOR SHALL (1) REMOVE THE FINISH MATERIAL; (2) EXPOSE THE STRUCTURE; (3) NOTIFY THE ARCHITECT FOR INSPECTION.
- REMOVE ABANDONED PIPING & SUPPORTS TO INSIDE OF WALL/ BELOW CONC. FLOOR. CAP REMAINING PIPING - PATCH WALL OR CONCRETE FLOOR TO MATCH EXISTING. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL
- DRAWINGS FOR OTHER ITEMS TO BE REMOVED, RELOCATED AND INSTALLED. SAW CUT AS REQ'D TO MAKE PLUMBING CONNECTIONS PER DETAIL 12/A7.01. PATCH

CONCRETE FLOOR PER DETAIL 13/A7.01 TO MATCH

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF LAYOUTS AND ESTABLISHED LOCATIONS OF BURIED UTILITY LINES. ANY UTILITIES REQUIRING RELOCATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR CONTACT APPLICABLE GOVERNING AGENCIES REGARDING ARRANGEMENT AND COORDINATION OF WORK.
- WHEN INCREASING THE WIDTH OF DOOR WAYS. STUDS BOLTED OR NAILED TO HOLDOWNS MAY NOT BE MOVED WITHOUT APPROVAL BY THE ARCHITECT
- MOUNTED DEVICES PRIOR TO INSTALLATION OF NEW WALL FINISH MATERIAL AND SHALL REINSTALL ALL DEVICES AFTER NEW WALL MATERIAL IS IN PLACE INCLUDING MECHANICAL AND ELECTRICAL DEVICES. REMOVE ABANDONED SURFACE MOUNTED CONDUIT
- WIRE AND CONTROLS, TYPICAL TO AL ROOMS, REINSTALL REQUIRED OUTLETS FLUSH WITH FINISH CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR

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

TO PROCEEDING WITH ANY WORK. CONTRACTOR SHALL IMMEDIATLY NOTIFY ARCHITECT OF ANY EXISTING CONDITIONS WHICH MAY CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS

KEY NOTES

- REMOVE EXISTING WALL RE-FRAME PER 10/S3.01 EXISTING WINDOW TO BE REMOVED IN FILL PER
- 3. EXISTING WINDOW TO REMAIN
- REMOVE EXISTING DOOR HARDWARE, DOOR AND
- 5. EXISTING DOOR FRAME TO REMAIN
- NO WORK IN THIS ROOM
- EXISTING ROOF OVERHANG TO REMAIN.
- PROVIDE NEW 2X INFILL WALL. FINISH TO MATCH EXISTING WALL IN COLOR AND TEXTURE
- PROVIDE NEW WALK-IN COOLER/FREEZER COMBO. INSTALL PER MANUFACTURERS RECOMMENDATIONS
- 10. NEW MECHANICAL LOUVER SEE MECHANICAL DRAWINGS
- 11. PROVIDE NEW SINGLE BIN TRASH ENCLOSURE
- 2. PROVIDE NEW CONCRETE FILLED PIPE BOLLARDS PER DETAIL 16/A1.03
- 13. PROVIDE NEW DRAIN AT BIN WASHING STATION SEE MP2.01 FOR ADDITIONAL INFORMATION
- 14. EXISTING COOLER TO BE REMOVED (BY OWNER)

15. EXITING FENCING TO BE REMOVED

- 16. EXISTING STORAGE TO BE RELOCATED (BY OWNER)
- 17. NEW ROOM ID SIGN PER DETAIL 4/A8.01
- 18. NEW EXIT SIGN PER DETAIL 8/A8.01
- 19. NEW RESTROOM SIGN PER DETAIL 6/A8.02 20. NEW WATER CLOSET
- 21. NEW LAVATORY
- 22. NEW 48" GRAB BAR
- 23. NEW 36" GRAB BAR
- 24. EXISTING ELECTRICAL PANEL
- 25. REMOVE EXISTING PLUMBING FIXTURES
- 26. REMOVE (E) CERAMIC TILE WALL & FLOOR FINISHES
- 27. NEW FLOOR COVERING AND WALL BASE TO MATCH **EXISTING**
- 28. PATCH & REPAIR WALL TO MATCH (E) ADJACENT SURFACE - PRIME AND PAINT
- 29. EXISTIPG LOUVER TO BE REMOVED
- FACE OF FREEZER AND FACE OF COMS. FILL VOID W/ POLYSTYPETE TO TOP CURB AFTER UNIT FLOOR IS IN PLACE.

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100H20

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FILE #: 15-6 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

TRACKING #: 63321-118

LEGEND

EXISTING 2x STUD WALL TO REMAIN

NEW REFRIGERATOR/FREEZER BY OTHERS

EXISTING DOOR TO BE REMOVED NEW FLOORING MATERIAL, SEE SCHEDULE

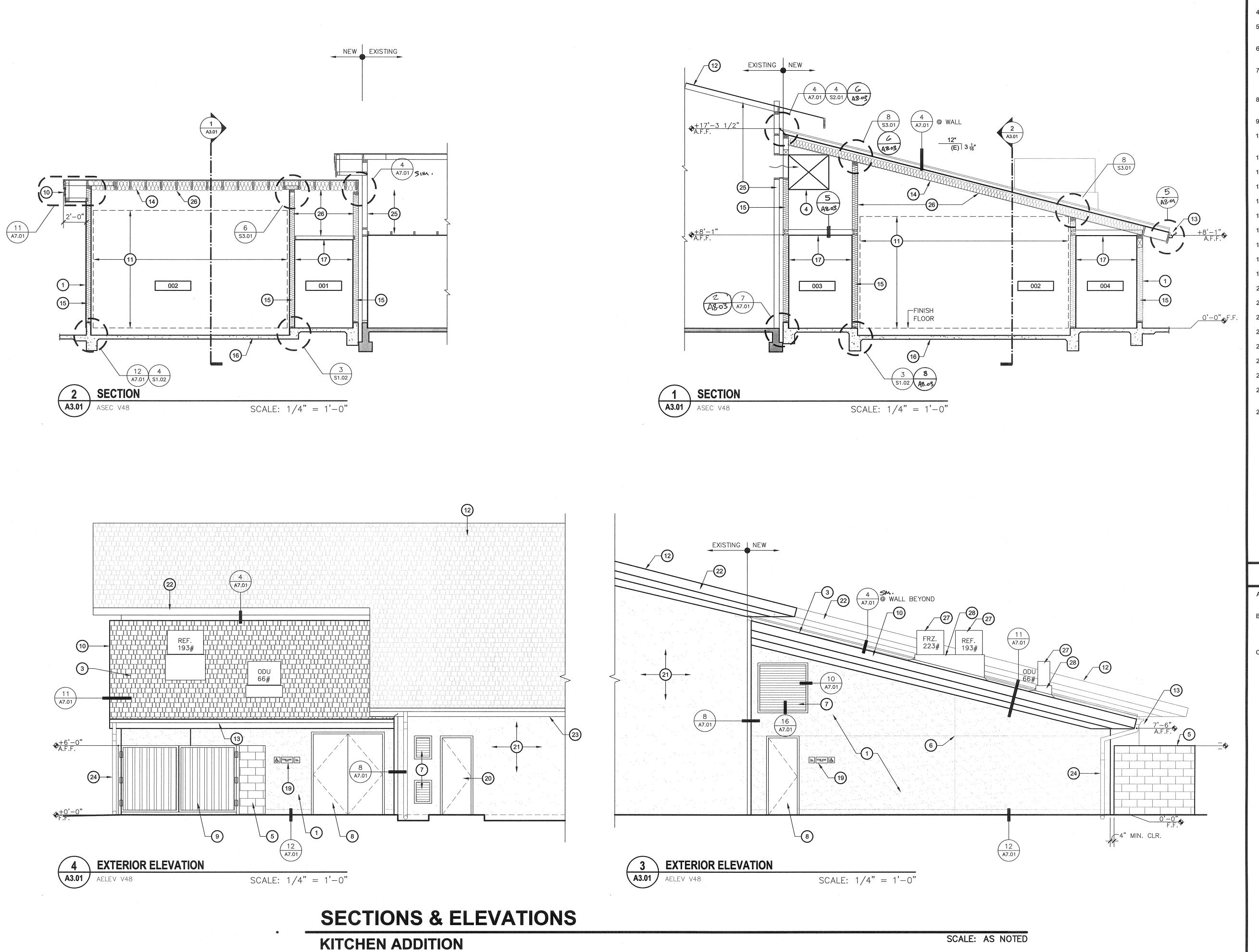
NEW 6" - 1-HOUR RATED WALL SEE DETAILS SHEET A8.03 ///// NEW 8 x 8 x 16 CMU

NEW 2 x 6 @ 16" O.C.

NEW 2 x 6 STUD WALL INFILL

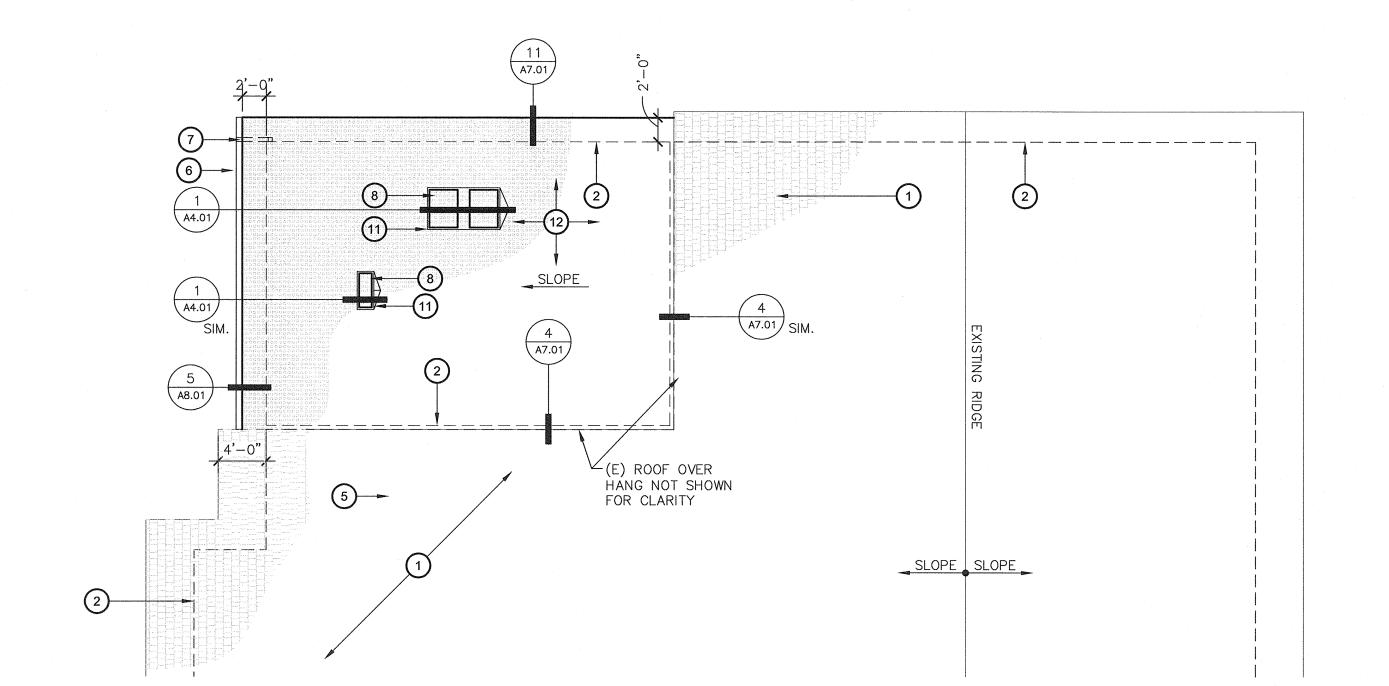
NEW 2 x @ 16" O.C. IN-FILL

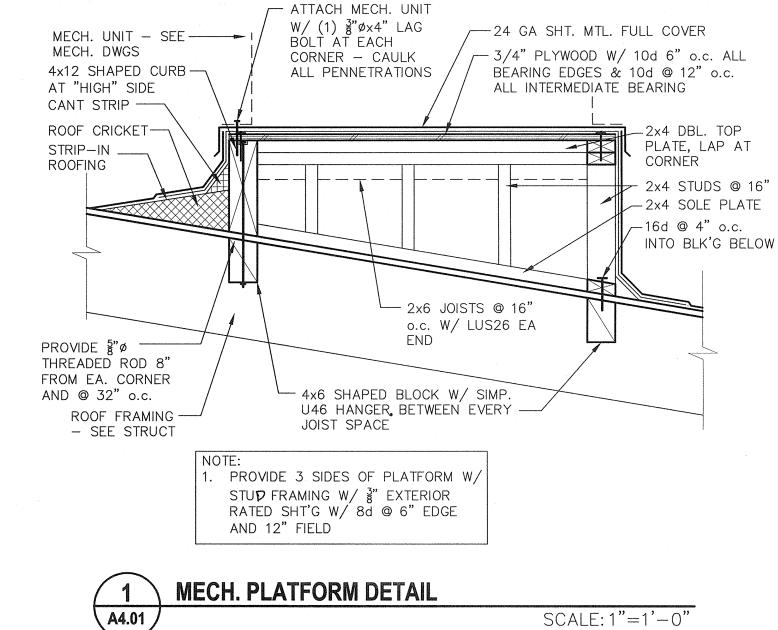
A2.01



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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES C. ALL METAL LATH WIRE SHALL BE CUT BEHIND ALL EXPANSION/CONTROL JOINTS. THE CONTRACTOR SHALL PROVIDE STUDS AS REQUIRED @ ALL TRACKING #: 63321-118 3990 A3.01

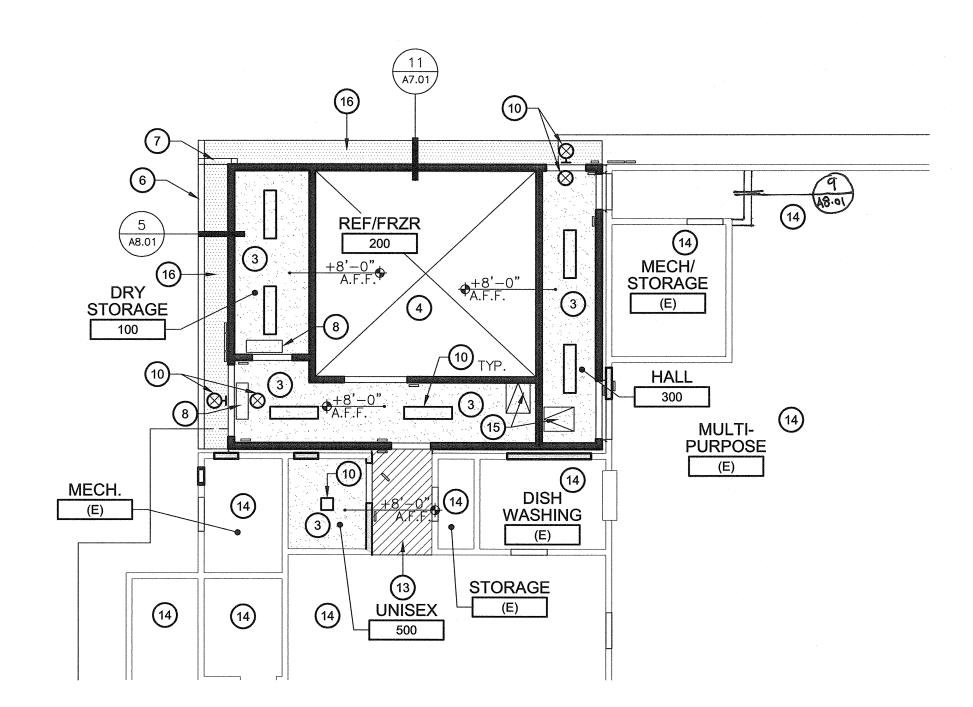




ROOF PLAN

KITCHEN ADDITION

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





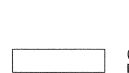
SCALE: 1/8" = 1'-0"

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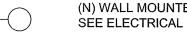
HATCHED AREAS INDICATE NEW COMP. SHINGLE ROOFING SYSTEM - SEE SPECS



(N) SURFACE MOUNTED 1x4 LIGHT FIXTURE - SEE ELECTRICAL



(N) WALL MOUNTED LIGHT FIXTURE



(N) EMERGENCY EXIT LIGHT FIXTURE - SEE ELECTRICAL

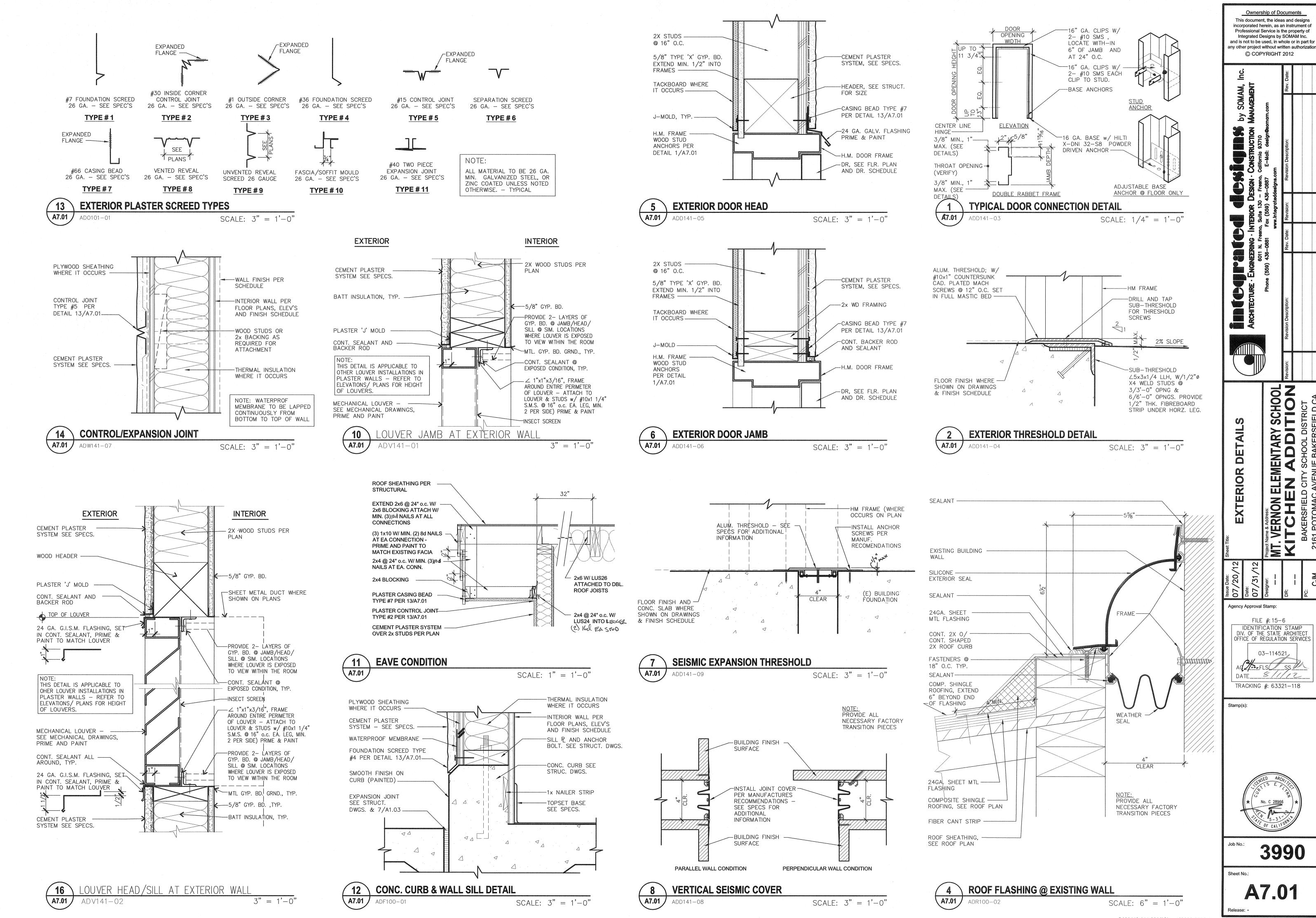


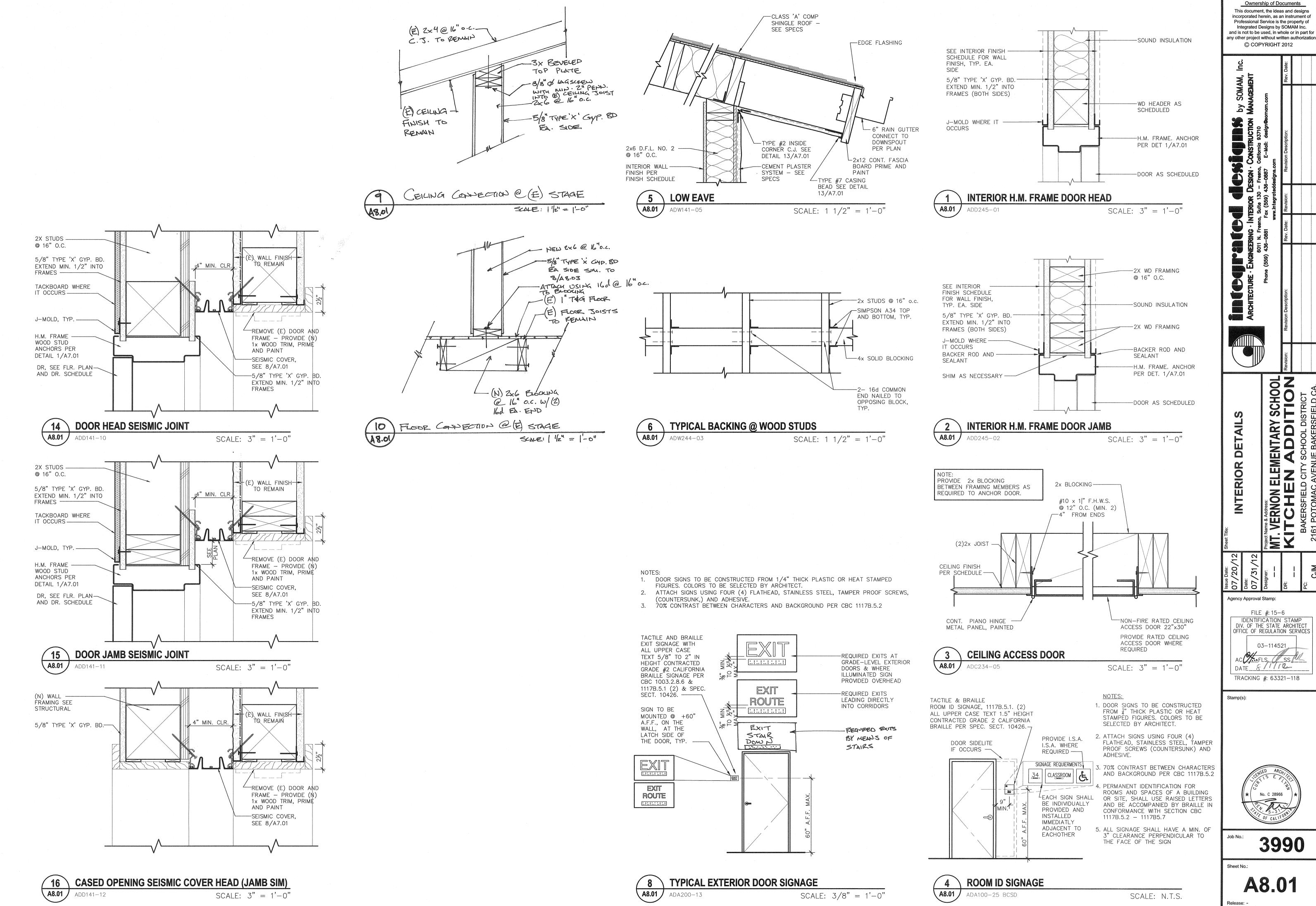
TRACKING #: 63321-118

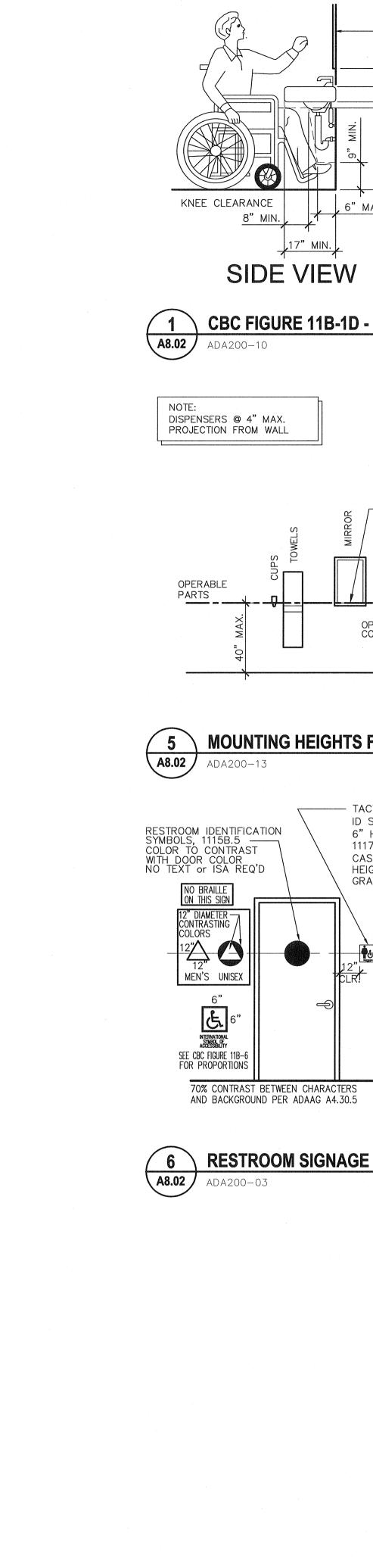
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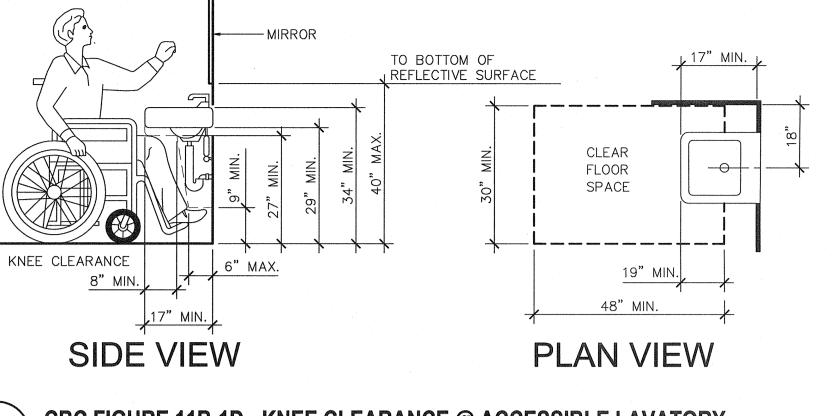
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A4.01







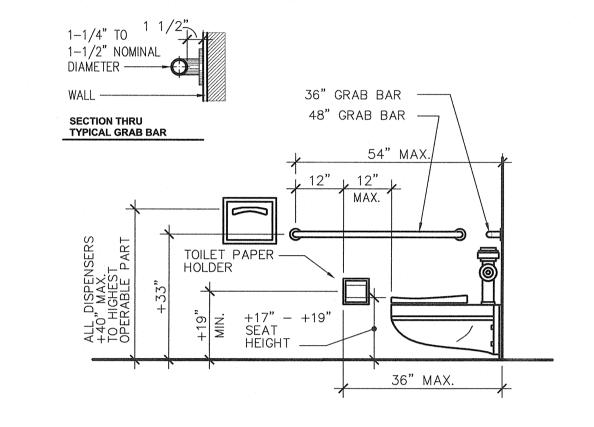


NOTES:

- 1. NO SHARP OR ABRASIVE SURFACES SHALL BE PRESENT UNDER LAVATORIES.
- 2. ALL PIPES UNDERNEATH LAVATORIES SHALL
 BE INSULATED TO PROTECT AGAINST CONTACT
 FROM THE PERSONS USING THE FIXTURE.
 (REFER TO SPECIFICATIONS)
- 3. THE LOWER REFLECTIVE EDGE OF MIRRORS SHALL NOT EXCEED 40 INCHES ABOVE THE FINISHED FLOOR.
- 4. ACCEPTABLE FAUCETS SHALL INCLUDE PUSH ELECTRONIC AND LEVER MECHANISM. FAUCETS WITH SELF-CLOSING VALVES SHALL REMAIN OPEN FOR NO LESS THAN 10 SECONDS. SEE PLUMBING DRAWINGS.
- 5. ACCESIBLE FAUCET CONTROLS SHALL BE PUSH TYPE WITH 5 LBS MAX. OPERATING FORCE.

CBC FIGURE 11B-1D - KNEE CLEARANCE @ ACCESSIBLE LAVATORY

SCALE: 1/2" = 1'-0"



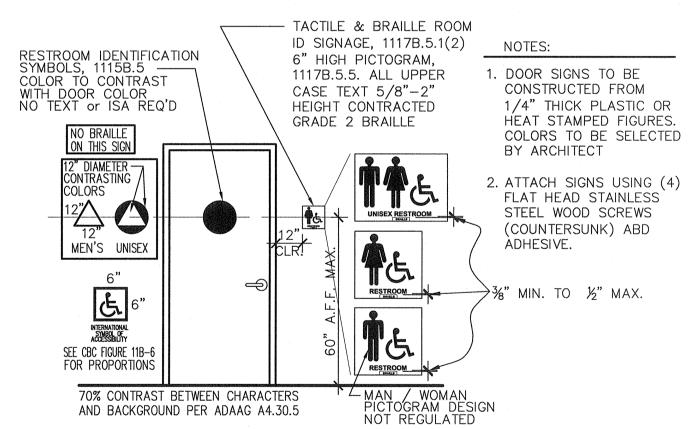
ACCESSIBLE MOUNTING HEIGHTS

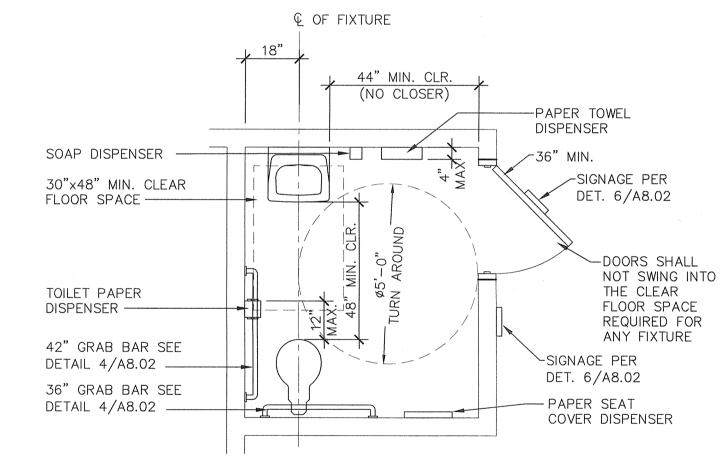
\ A8.02 /

ADA200-12

MOUNTING HEIGHTS FOR TOILET RM ACCESSORIES

A8.02 ADA200-13 SCALE: 1/2" = 1'-0"

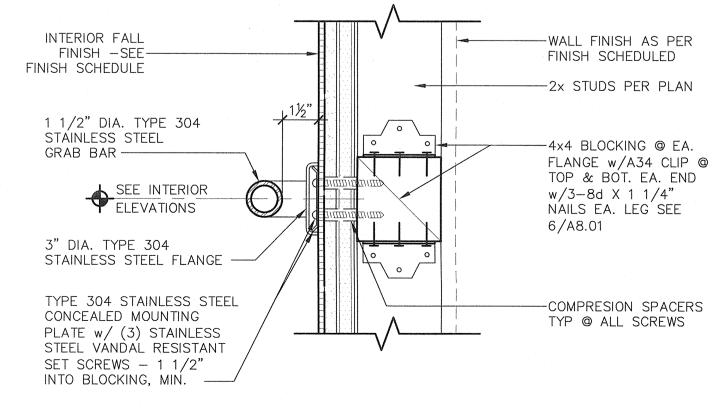




SCALE: 1/2" = 1'-0"









MT. VERNON ELE

K.T.C.H.E.N

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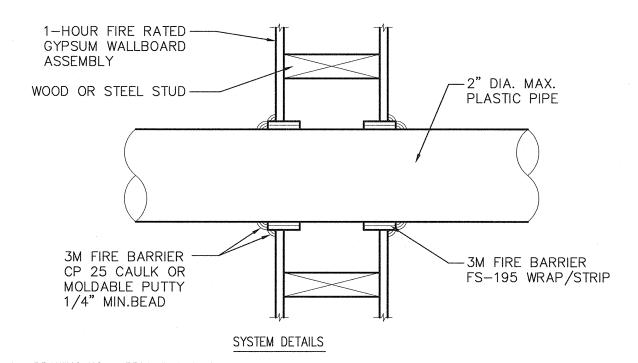
No. C 28966

No.:

3990

set No.:

A8.02



- 1. DRAWING NO.: 5300-PPG26.03
- 2. SYSTEM JUSTIFICATION: UL THROUGH-PENETRATION FIRESTOP SYSTEM NO. W-L-2003, CONFIGURATION B, PER ASTM E 814 (ANSI/UL 1479) FIRE TEST.
- 3. ASSEMBLY: 1 HR. RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY.
- 4. RATINGS: F 1 HR., T 1 HR.
- 5. PENETRATING ITEM(S):

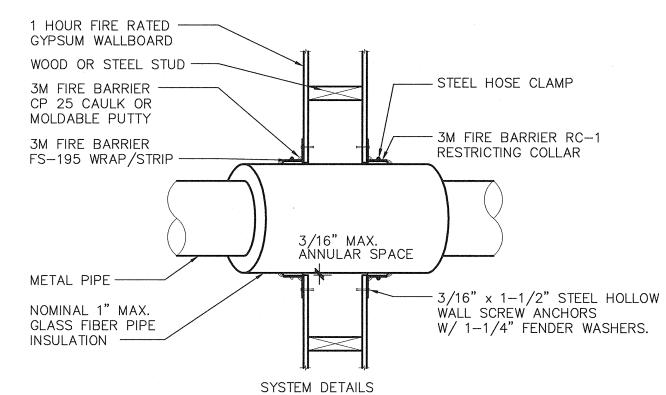
A8.03

EDW240-08

- A. NOMINAL 2-IN. DIAMETER (OR SMALLER) SCH. 40 (OR HEAVIER) PVC PIPE IN CLOSED OR VENTED
- B. NOMINAL 2-IN. DIAMETER (OR SMALLER) SDR11 (OR HEAVIER) POLYBUTYLENE (PB) PIPES IN CLOSED CLOSED OR VENTED SYSTEM.
- C. NOMINAL 2-IN. DIAMETER (OR SMALLER) SCH40 (OR HEAVIER) POLYPROPYLENE (PP) PIPE IN CLOSED CLOSED OR VENTED SYSTEM. APPLICATION DETAILS
- 1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
- 2. THE ANNULAR SPACE AROUND THE PIPE, PRIOR TO THE INSTALLATION OF THE 3M FIRE BARRIER FS-195 WRAP/STRIPS, SHALL BE 1/4 INCH TO 3/8 INCH. IF THE ANNULAR SPACE AROUND THE PIPE IS GREATER THAN 1/4 IN. AFTER THE APPLICATION OF THE FS-195 WRAP/STRIPS, INSTALL ADDITIONAL FS-195 WRAP/ STRIPS UNTIL THE ANNULAR SPACE IS LESS THAN 1/4 INCH.
- WHEN USING 3M FIRE BARRIER CP25N/S CAULK FOR SEALING PRESSURIZED PIPE PLACE A WRAP OF FOIL TAPE IN THE CAULK CONTACT AREA. NO FOIL BARRIER IS NECESSARY WHEN USING CP25WB CAULK OR MOLDABLE PUTTY
- 4. TIGHTLY WRAP THE FS-195 WRAP/STRIP AROUND THE PLASTIC PIPE FOIL SIDE OUT. SECURE WITH TAPE OR STEEL TIE WIRE
- 5. SLIDE TH FS-195 WRAP/STRIP INTO THE OPENING LEAVING APPROXIMATELY 3/4 INCH EXPOSED BEYOND
- 6. SEAL THE SYSTEM WITH A 1/4 INCH BED OF 3M FIRE BARRIER CP 25 CAULK OR MOLDABLE PUTTY AT THE WALL/FS-195 WRAP/STRIP INTERFACE AND TH PIPE/FS-195 WRAP/STRIP INTERFACE.

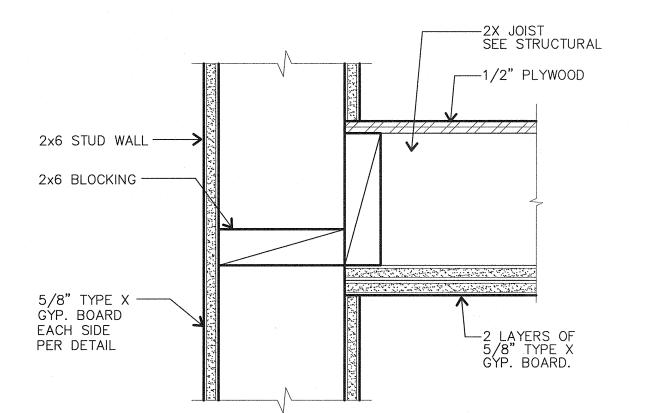
PLASTIC PIPE / CONDUIT PENETRATIONS THROUGH 1-HR RATED WALLS (2" MAXIMUM DIAMETER)

U.L. ASSEMBLY NO. WL2003 SCALE: 1' = 1'-0"

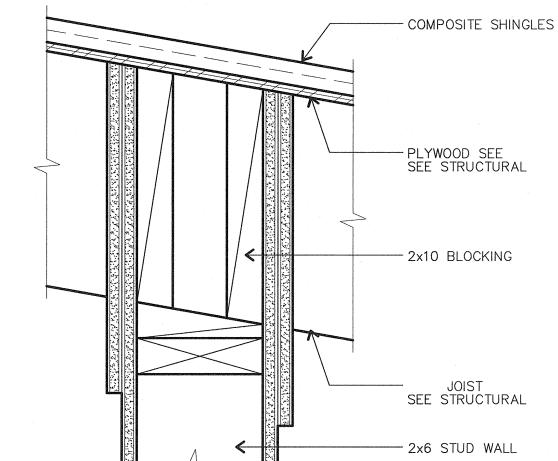


- 1. DRAWING NO.: 5300-IPG25.05
- 2. SYSTEM JUSTIFICATION: UL THROUGH—PENETRATION FIRESTOP SYSTEM NO. W-L-5002, CONFIGURATION C, PER ASTM E 814 (ANSI/UL 1479) FIRE TEST.
- 3. ASSEMBLY: 1 HR. RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY. STEEL PIPES OR CONDUITS LARGER THAN NOMINAL 4-IN. DIAMETER MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS.
- 4. RATINGS: F 1 HR., T 1 HR.
- 5. PENETRATING ITEM(S): NOMINAL 4-IN. DIAMETER (OR SMALLER) SCH. 10 (OR HEAVIER) STEEL PIPE WITH A NOMINAL 1-IN. GLÀSS FIBER PIPE COVERING INSULÀTION.
 - APPLICATION DETAILS
- 1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
- 2. MINIMUM ANNULAR SPACE REQUIREMENTS IS 0 IN. MAXIMUM ANNULAR REQUIREMENT IS 3/16 IN.
- 3. TIGHTLY WRAP THE 3M FIRE BARRIER FS-195 WRAP/STRIP, FOIL SIDE OUT, AROUND THE PIPE INSULATION WITH THE SEAM BUTTED. SECURE WITH STEEL TIE WIRE OR ALUMINUM FOIL TAPE. BUTT THE SECURED FS-195 WRAP/STRIP AGAINST THE WALL SURFACE.
- 4. APPLY THE 3M FIRE BARRIER RC-1 RESTRICTING COLLAR. REMOVE ENOUGH RC-1 RESTRICTING COLLAR TO MAKE ONE WRAP AROUND THE APPLIED FS-195 WRAP/STRIP, WITH A MINIMUM 1-IN. OVERLAP. BEND THE MOUNTING TABS AWAY FROM THE INSULATED PIPE AT RIGHT ANGLES FLUSH WITH THE WALL SURFACE.
- 5. FASTEN THE RC-1 RESTRICTING COLLAR TIGHTLY AROUND THE FS-195 WRAP/STIRP LAYER WITH A STEEL HOSE CLAMP, CENTERING THE CLAMP ON THE COLLAR ASSEMBLY.
- 6. SECURE THE RC-1 RESTRICTING COLLAR TI THE WALL WITH A MINIMUM 1 1/2" x 3/16" DIAMETER HOLLOW WALL SCREW ANCHORS WITH 1 1/4" x 1/4" FENDER WASHERS. SECURE EVERY TAB.
- 7. SEAL THE SYSTEM WITH A 1/4 IN. BEAD OF 3M FIRE BARRIER CP 25 CAULK OR 3M FIRE BARRIER MOLDABLE PUTTY AT THE FS-195 WRAP/STRIP//WALL INTERFACE AND THE FS-195 WRAP/STRIP/ INSULATION
- 8. BEND THE RETAINER TABS TOWARD THE PIPE TO LOCK THE FS-195 WRAP./STRIP IN POSITION.

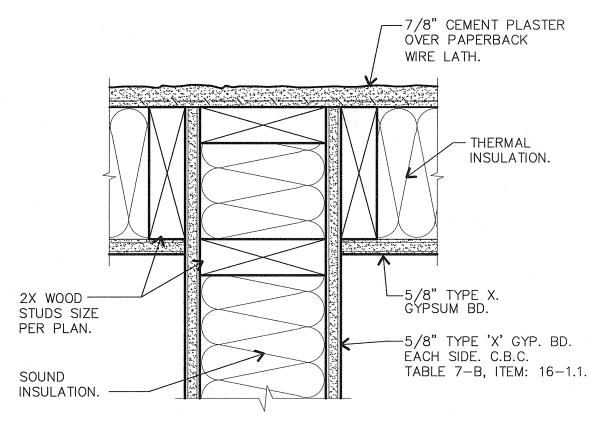
INSULATED STEEL PIPE PENETRATION THROUGH 1-HR RATED WALLS (4" MAXIMUM DIAMETER) **A8.03**



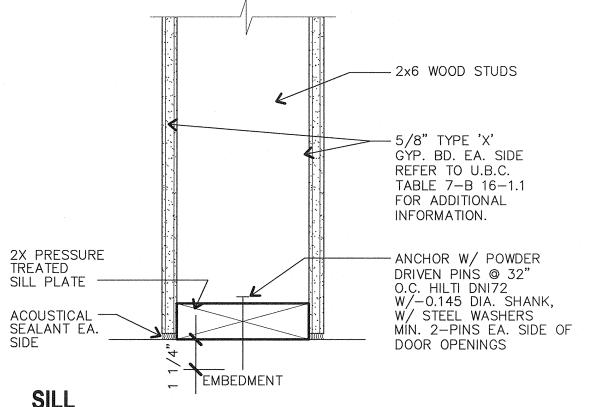
1-HR FIRE RATED ASSEMBLY @ CEILING TO WALL A8.03 SCALE: 3" = 1' - 0"



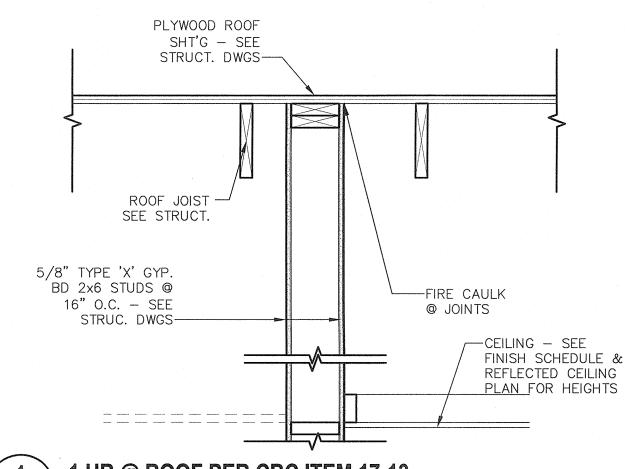
1-HR FIRE RATED ASSEMBLY @ ROOF TO WALL 、A8.03 / ADF244-05 SCALE: 3'' = 1'-0''



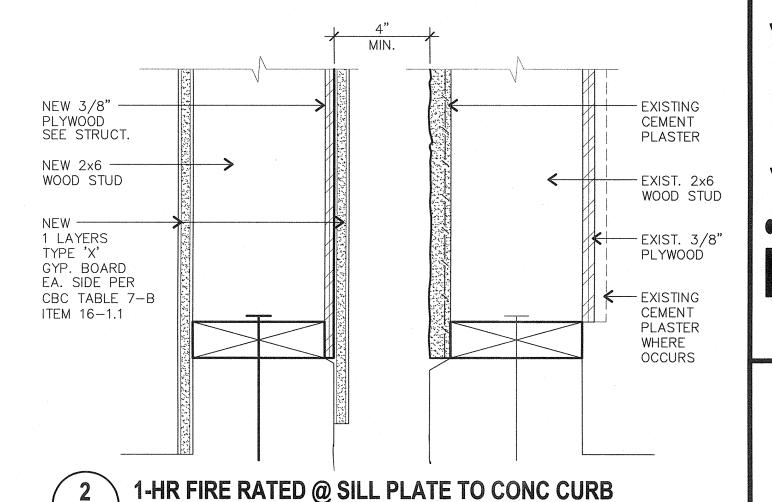
PLAN VIEW 1-HR FIRE RATED ASSEMBLY @ EXT. WALL A8.03 SCALE: 3'' = 1'-0''



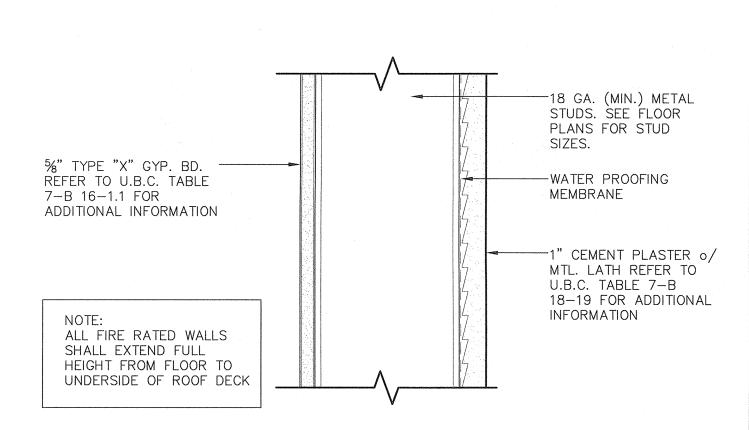
1-HR RATED WALL A8.03 SCALE: 3" = 1'-0"



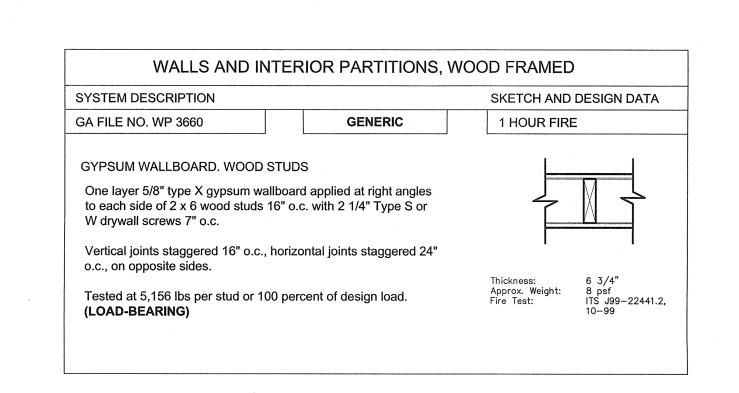
1 HR @ ROOF PER CBC ITEM 17-13 A8.03 SCALE: 1'' = 1' - 0''



SCALE: 3'' = 1'-0''



1-HR FIRE RATED ASSEMBLY (EXTERIOR) A8.03 SCALE: 3'' = 1'-0''



1 HOUR RATED WALL CONSTRUCTION SCALE: 1" = 1'-0" any other project without written authorization © COPYRIGHT 2012

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Stamp(s):



Job No.: 3990

U.L. ASSEMBLY NO. WL5002 SCALE: 1' = 1'-0"

A8.03 ADF244-02

(A8.03 /

ADF140-01

GENERAL NOTES

- 1. THE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2010 EDITION OF TITLE 24, PART 2, CALIFORNIA BUILDING CODE AND AMENDMENTS.
- 2. DETAILS AND NOTES SHALL APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS. DETAILS ON THIS SHEET ARE AT NO SCALE, UNLESS NOTED OTHERWISE.
- 3. DO NOT SCALE STRUCTURAL DRAWINGS. IF DIMENSIONS OR DETAILS ARE NOT CLEAR, OR IF DISCREPANCIES EXIST ON THE DRAWINGS OR SPECIFICATIONS, CONTACT THE ARCHITECT.
- 4. SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF PIPES, CONDUITS, FLOOR DRAINS, VENTS, DUCTS, DRAIN LEADERS AND OTHER SIMILAR OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
- 5. SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR EMBEDMENT OF BOLTS, ANCHORS AND OTHER MISCELLANEOUS EMBEDDED ITEMS NOT SHOWN ON STRUCTURAL DRAWINGS.

WOOD NOTES

- 1. UNLESS SPECIFICALLY SHOWN OTHERWISE, BOLTS WHERE CALLED FOR ON THE DRAWINGS SHALL BE MACHINE BOLTS CONFORMING TO ASTM A307.
- 2. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD.
- 3. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
- 4. FRAMING ANCHORS AND CONNECTORS SHOWN ON THE DRAWINGS SHALL BE MANUFACTURED BY SIMPSON COMPANY, SAN LEANDRO, CA. OR EQUIVALENT. PROVIDE FASTENERS IN ACCORDANCE WITH MANUFACTURER'S CATALOG C-2011.
- 5. SATISFACTORY INSTALLATION SHALL BE DEMONSTRATED ON THE JOB AND THE ACCEPTANCE OF THE ARCHITECT SHALL BE OBTAINED BEFORE THE USE OF MACHINE-APPLIED NAILS CAN BE APPROVED. APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.
- 6. NO UPSET THREADS ALLOWED ON ANCHOR BOLTS.
- 7. ALL NAILS ARE COMMON NAILS.
- 8. ALL BORED HOLES ARE (1/16 1/32) LARGER THAN BOLT SIZE.
- 9. FRAMING LUMBER SHALL BE KILN DRIED OR MC-15, GRADE AND MARKED IN CONFORMANCE WITH WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) STANDARD GRADING RULES.
- 10. ALL STRUCTURAL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH (NORTH) NO.2 AND BETTER.
- 11. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE. ALL WOOD EXPOSED TO WEATHER WITHOUT THE ADEQUATE PROTECTION SHALL BE AN APPROVED WOD OF NATURAL RESISTANCE TO DECAY OR PRESSURE TREATED.
- 12. ALL ROOF JOISTS SHALL BE 12"x92" TIMBERSTRAND LSL, 1.5E.
- 13. PLYWOOD SHEATHING SHALL BE STRUCTURAL I EXTERIOR GLUE IN CONFORMANCE WITH APA STANDARDS. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD. BOTH ROOF AND WALL SHEATHING SHALL BE 3/8" THICK MINIMUM.

CONCRETE EPOXIED REBAR & BOLT NOTES

1. EPOXY SHALL BE SIMPSON SET ADHESIVE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC., 4637 CHABOT DRIVE, SUITE 200, PLEASANTON, CALIFORNIA, 94588 INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-1772.

2. EMBEDMENT DEPTHS SHALL BE AS FOLLOWS:

| REBAR SIZE | BOLT SIZE | MINIMUM EMBEDMENT* | TENSION TEST LOADS (LBS.) |
|------------|-----------|-----------------------|---------------------------|
| # 3 | 3/8" | 3 1/2" | 4,096 |
| # 4 | 1/2" | 4 1/4" | 7,220 |
| # 5 | 5/8" | 5 " | 11,784 |
| # 6 | 3/4" | 6 3/4" | 16,916 |
| # 7 | 7/8" | 7 3/4" | 20,808 |
| # 8 | 1" | 9" | 25,016 |
| | | | |

- 3. ALL EPOXIED BOLTS AND/OR REBAR SHALL BE INSPECTED BY AN APPROVED TESTING AND INSPECTION AGENCY AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE I.C.C. REPORT AND CBC SECTIONS 1923A.3.5 TO THE TENSION TEST VALUES STATED IN THE TABLE ABOVE. THE LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR, SUCH DIRECT PULL WITH A HYDRAULIC JACK, A TORQUE WRENCH CALIBRATED FOR THE USE WITH THE SPECIFIC ANCHOR, CALIBRATED SPRING-LOADED DEVICES, ETC.
- 4. WHEN INSTALLING EPOXIED BOLTS AND/OR REBAR, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EPOXIED BOLTS AND/OR
- 5. ANY REBAR/BOLTS SHOWN ON THE APPROVED PLANS AS BEING EPOXIED MAY BE EPOXIED WITH SPECIAL INSPECTION IN ACCORDANCE WITH SECT. 4.4 IN THE I.C.C. REPORT. ANY ITEMS THAT REQUIRE EPOXY BUT ARE NOT SPECIFICALLY SHOWN AS BEING EPOXIED ON THE APPROVED PLANS MUST BE IN ACCORDANCE WITH SECT. 4.2 OF THE I.C.C. REPORT PRIOR TO BEING INSTALLED.
- * SEE PLANS AND DETAILS FOR MINIMUM EMBEDMENT FOR HOLDOWN ANCHOR BOLTS.
- 6. SEE DSA IR 19-1 FOR TEST CRITERIA
- 7. POST INSTALLED ANCHORS MUST BE COMPLIANT w/ THE FOLLOWING & HAVE CURRENT ICC-ESR
- 1. ACI 318-08, APPD.
- 2. ICC-AC 193
- OTHERWISE $R_F = 1.5$
- 3. ICC-AC 308

STRUCTURAL NOTES

SCALE: NO SCALE

UNLESS SPECIFICALLY NOTED OTHERWISE. NAILING SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE, USING ONLY COMMON WIRE NAILS. NAILING NOT NOTED BELOW OR ON PLANS SHALL HAVE A MINIMUM OF 2 NAILS AT EACH CONTACT, 8d FOR 1" MATERIAL AND 16d FOR 2" MATERIAL.

WHERE POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL

| ١. | JUISTS OR RAFTERS AT BEARING, TUENAIL EACH SIDE | 2-10d |
|----|---|-------------|
| 2. | BRIDGING TO JOIST, TOENAIL EACH END | 2-8d |
| 3. | SOLE PLATE TO JOIST OR BLOCKING, | 10-1 AT 10" |
| | BLOCKING, FACE NAIL | Iba Al Ib |
| 1 | TOP PLATE TO STUD FND NAU | 2_164 FOR 1 |

(NOT REQUIRED WHERE A35 ANCHORS ARE USED) 4-16d FOR 2x8 STUD TO SOLE PLATE, 2x4 4-8d TOENAILS (USE ONE HALF OF REQUIRED TOE NAILS OR 2-16d ON ONE SIDE WHERE A35 ANCHORS

ARE USED). 2x8 8-8d TOENAILS 6. DOUBLE STUDS, FACE NAILS 16d AT 24" O.C.

8. TOP PLATES, LAPS AT INTERSECTIONS. 10. CONTINUOUS HEADER TO STUD, TOENAIL 4-8d 11. CEILING JOIST, LAPS OVER PARTITIONS,

12. CEILING JOIST TO PARALLEL RAFTERS. 13.1" BRACE TO EACH STUD AND PLATE,

16. BLOCKING BETWEEN JOISTS OR RAFTERS TO JOIST OR RAFTERS TOE NAILS, EACH SIDE, EACH END 2-10d

TOENAILS, EA. SIDE, EA. END

NAILS SHALL ACHIEVE THE MINIMUM PENETRATION SPECIFIED IN THE TABLE BELOW. NAILS SHALL NOT BE DRIVEN CLOSER TOGETHER THAN THE MINIMUM SPACING NOR CLOSER TO THE MEMBERS END OR EDGE

20. ALL NAILS USED FOR PRESSURE TREATED WOOD SHALL BE GALVANIZED

| COI | COMMON WIRE NAIL PROPERTIES | | | | | | | | | |
|--------|-----------------------------|--|--|--|--|--|--|--|--|--|
| SIZE | NAIL DIA. | MINIMUM PENETRATION* AND SPACING | | | | | | | | |
| 6d | 0.113" | 1.36" | | | | | | | | |
| 8d | 0.131" | 1.57" | | | | | | | | |
| 10d | 0.148" | 1.78" | | | | | | | | |
| 16d | 0.162" | 1.94" | | | | | | | | |
| 20d | 0.192" | 2.30" | | | | | | | | |
| *PFNF1 | RATION INTO | THE PIECE | | | | | | | | |

NAILING SCHEDULE

SD0000-04

SCALE: N.T.S.

DESIGN LOADS

ROOF DL = 6.1 PSF ROOF COLLATERAL LOAD = 3.9 PSF ROOF LL = 20 PSF (REDUCIBLE)

WIND LOAD =85 MPHEXPOSURE C

I=1.15Kz = 0.9

\ S1.01

Kd = 0.85Kzt = 1 $qn = 0.00256 \text{ Kz Kzt Kd V}^2 \text{ I} = 16.3 \text{ POF}$ P = qn [(GCpf)-(GCpi)]

EARTHQUAKE DESIGN DATA: $R=6 \ 1/2, \Omega.=3, Cd=4, P=1.3, I=1.25$ SDS=0.813 SD, = 0.445 CS = SDS/(R/I) = 0.156V=CSW=0.156W $PV=0.202, \Omega. V=0.468W$ SITE CLASS D GEOTECHNICAL INFORMATION PER

KYAZAN'S SOILS REPORT DATED MAY 25, 2010. ALLOWABLE SOIL BEARING FOR D+L=1500PSF. D+F=2000 PSP

NOT A FLOOD ZONE

NAILING SCHEDULE

BE USED INSTEAD OF TOENAILS.

1 INICTO AD DAFTEDO AT DEADING TORNAIL FACH SIDE 2...104

4. JUP PLATE TO STUD, END NAIL 2-16d FOR 2x4

END NAILS OR 3-16d END NAILS

7. DOUBLE TOP PLATES, FACE NAILS 16d AT 16" O.C.

14. DOUBLE RAFTERS, FACE NAIL 16d AT 12" O.C.

TO JOIST OR RAFTER BEARINGS

18.1x6 SHEATHING EACH BEARING 2-8d

THAN 1/2 THE MINIMUM SPACING. HOLES SHALL BE BORED WHERE NECESSARY TO PREVENT SPLITTING.

| COI | COMMON WIRE NAIL PROPERTIES | | | | | | | | | |
|------|-----------------------------|--|--|--|--|--|--|--|--|--|
| SIZE | NAIL DIA. | MINIMUM PENETRATION* AND SPACING | | | | | | | | |
| 6d | 0.113" | 1.36" | | | | | | | | |
| 8d | 0.131" | 1.57" | | | | | | | | |
| 10d | 0.148" | 1.78" | | | | | | | | |
| 16d | 0.162" | 1.94" | | | | | | | | |
| 20d | 0.192" | 2.30" | | | | | | | | |
| | TO A TIONI INITO | THE DIESE | | | | | | | | |

*PENETRATION INTO THE PIECE RECEIVING THE POINT



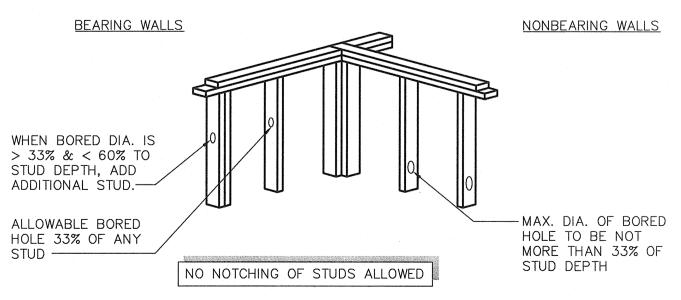
(12) 2x RIM JOIST

10 NOT USED

1 (2)-2x TOP P

(3) 2x FULL DEPTH BLOCK

(4) SIMPSON A34 ONE SIDE



—SEE **B**WHERE OCCURS

KEYNOTES:

(2) 2x STUDS @ 16" o.c., SEE PLANS FOR SIZE.

(6) 2x JOIST DEPTH BLOCK @ 24" o.c., MAX.

(9) (2)-16d @ 3" o.c., TOENAIL @ LEDGER.

(11) EXTEND JOIST TO PERPENDICULAR JOIST.

(13) NO SLICES IN P BETWEEN CROSS WALLS U.N.O.

(7) 2x JOIST-SEE PLAN FOR SIZE AND SPACING

(5) LAP JOIST 8" MIN. AND FACE NAIL WITH (3)-16d

(8) PLYWD. SHEATHING WHERE OCCURS, RUN BEHIND LEDGERS.

NO SCALE

SCALE: $1 \frac{1}{2} = 1'-0''$

6"o.c.

| SIZE | NOMINAL | ACTUAL | 25% | 33% | 60% |
|------|---------|--------|--------|--------|---------|
| 2x4 | 4" | 3-1/2" | 7/8" | 1-1/8" | 2-1/8" |
| 2x6 | 6" | 5-1/2" | 1-3/8" | 1-3/4" | 3-5/16" |

BORED HOLES TO BE LOCATED IN CENTER OF STUD TYPICAL BORING OF STUDS S1.01 SDW240-03

1. EXPANSION BOLTS SHALL BE HILTI KWIK BOLT TZ CARBON AS MANUFACTURED BY HILTI INC., 5400 SOUTH 122nd EAST AVENUE, TULSA, OKLAHOMA 74146. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ICC REPORT NO. ESR-1917.

2. EMBEDMENT DEPTHS SHALL BE AS FOLLOWS:

| DIAMETER | EMBEDMENT |
|----------|-----------|
| 3/8" | 2 1/2" |
| 1/2" | 3 1/2" |
| 5/8" | 4" |
| 3/4" | 4 3/4" |

3. EXPANSION BOLTS SHALL BE TESTED IN TENSION BY AN APPROVED TESTING AND INSPECTION AGENCY TO THE TENSION TEST LOADS LISTED BELOW. TENSION TEST ALL EXPANSION BOLTS USED FOR STRUCTURAL APPLICATIONS. WHEN EXPANSION BOLTS ARE USED FOR NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE 50 PERCENT OR ALTERNATE BOLTS IN A GROUP SHALL BE TENSION TESTED. WHEN EXPANSION BOLTS ARE USED FOR SILL PLATE BOLTING, 10 PERCENT OF THE EXPANSION BOLTS SHALL BE TENSION TESTED.

THE LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR, SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, A TORQUE WRENCH CALIBRATED FOR THE USE WITH THE SPECIFIC ANCHOR, CALIBRATED SPRING-LOADING DEVICES, ETC. ANCHORS IN WHICH THE TORQUE IS USED TO EXPAND THE ANCHOR WITHOUT APPLYING TENSION TO THE BOLT MAY NOT BE VERIFIED WITH A TORQUE WRENCH.

A. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED

HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD FOR WEDGE AND SLEEVE TYPE ANCHORS. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.

TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT

ONE-QUARTER (1/4) TURN OF THE NUT FOR %" SLEEVE ANCHOR ONLY

| TE | TENSION TEST LOADS | | | | | | | | |
|----------|--------------------------------|-----|--|--|--|--|--|--|--|
| DIAMETER | TENSION (LBS.) TORQUE (FTLBS.) | | | | | | | | |
| 3/8" | 1,848 | 20 | | | | | | | |
| 1/2" | 4,000 | 40 | | | | | | | |
| 5/8" | 5,532 | 85 | | | | | | | |
| 3/4" | 7,160 | 150 | | | | | | | |

NOTE: LOADS BASED ON f'c = 3000 PSI

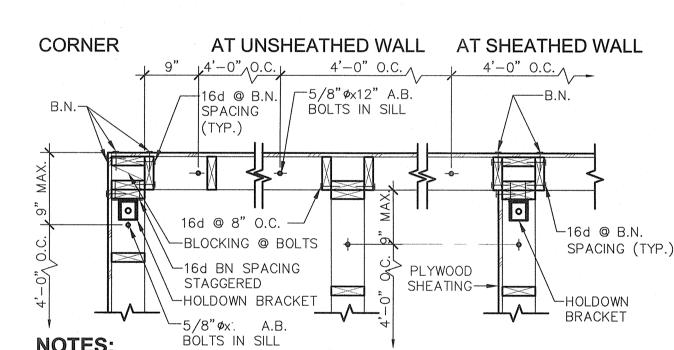
SD0000-01

4. WHEN INSTALLING EXPANSION BOLTS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE-INCH BETWEEN THE REINFORCEMENT AND THE EXPANSION BOLT. IF MANUFACTURER INSTALLATION TORQUE IS LESS THAN TEST TORQUE LISTED, USE THE INSTALLATION TORQUE VALUE FOR TESTING PURPOSES. TEST 24 HOURS MINIMUM AFTER INSTALLATION.

S1.01

CONCRETE EXPANSION BOLT NOTES

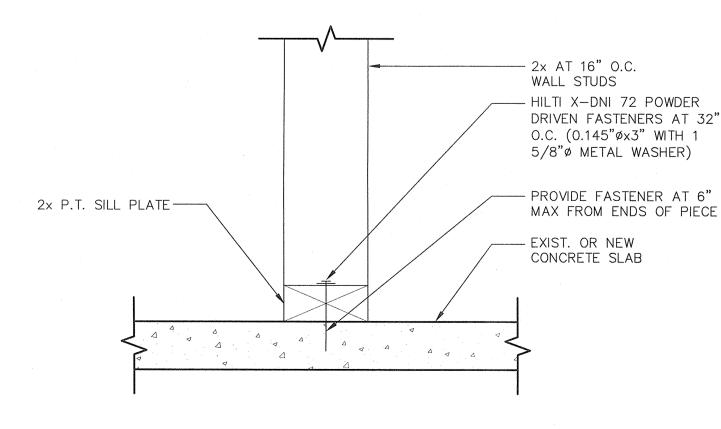
SCALE: NO SCALE



1. THESE DETAILS TO BE USED WHERE EVER PLANS OR SECTIONS SHOW SIMILAR POSITIONS OF WALLS OR SHEATHING UNLESS OTHERWISE SHOWN.

2. ANCHOR BOLT SIZE SHOWN IS MIN. AND SPACING SHOWN IS MAX., SEE PLYWOOD SHEAR WALL SCHEDULE FOR SPECIFIC REQUIREMENTS. PROVIDE MIN. OF 2 ANCHOR BOLTS PER PIECE.





INTERIOR NON-BEARING WALL FOOTING S1.01

SDW240-04

SCALE: 3'' = 1'-0''

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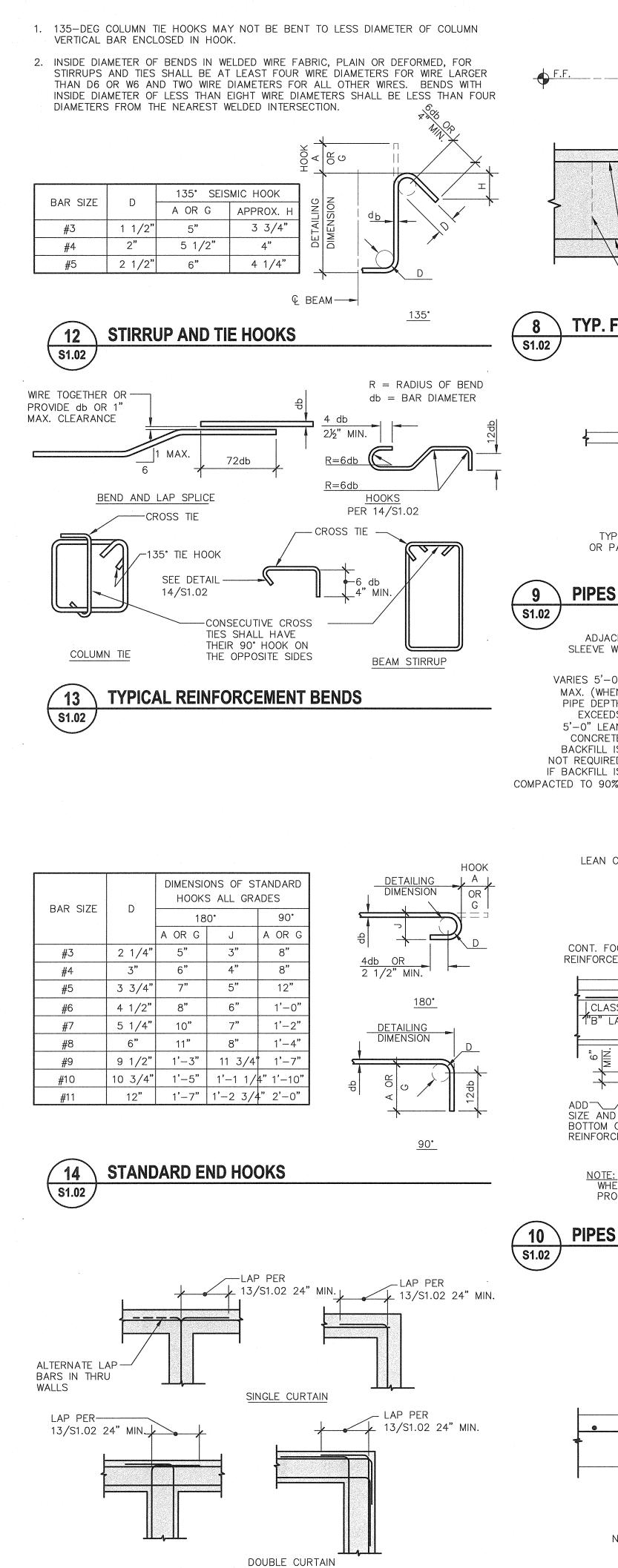
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Agency Approval Stamp: FILE #: 15-6 IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 03-114521 8/1/1 DATE_ TRACKING #: 63321-118

EXP. 6-30-13

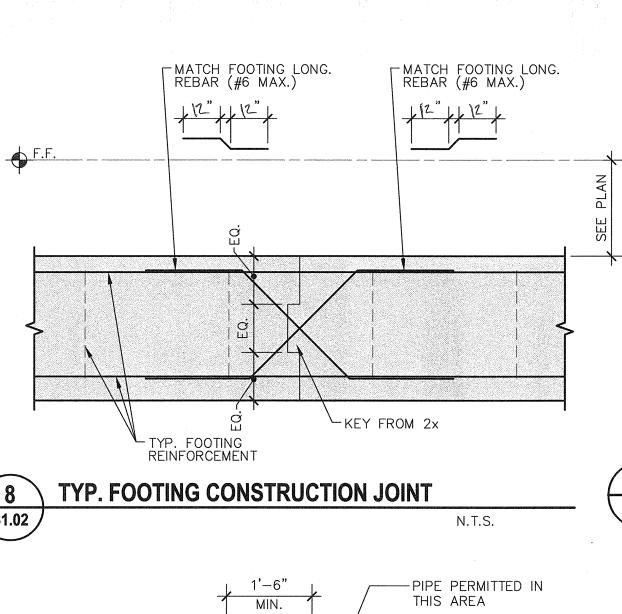
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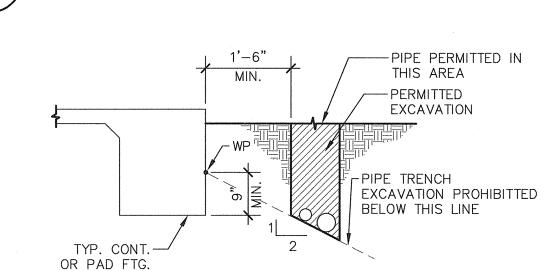


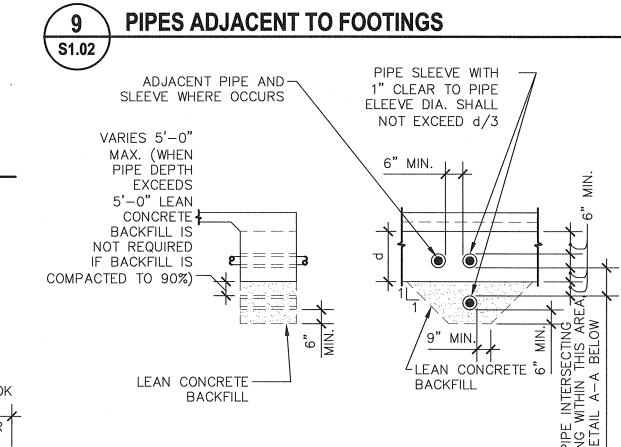
TYPICAL REINFORCING DETAIL

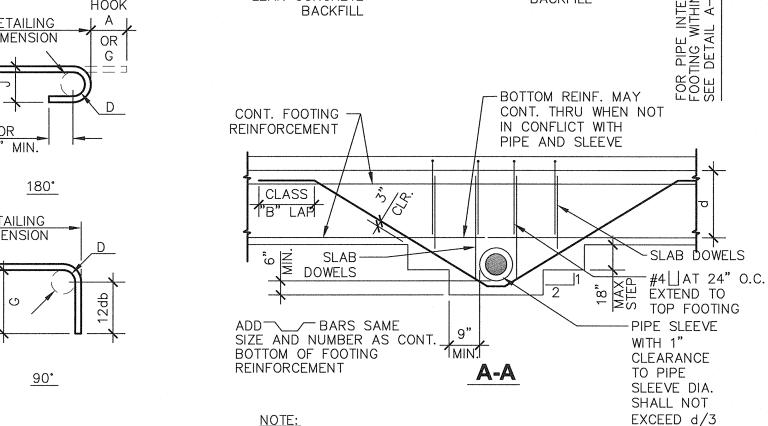
AT INTERSECTIONS

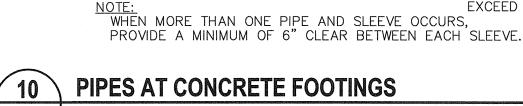
S1.02

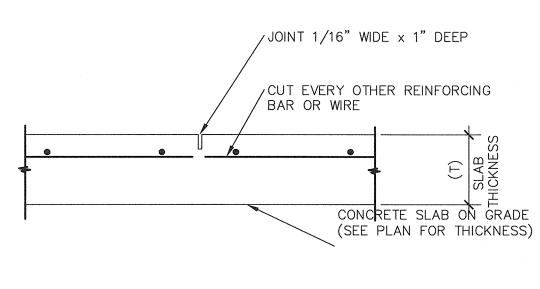










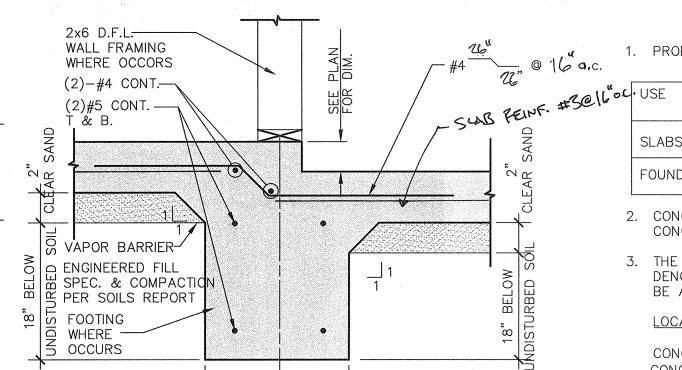


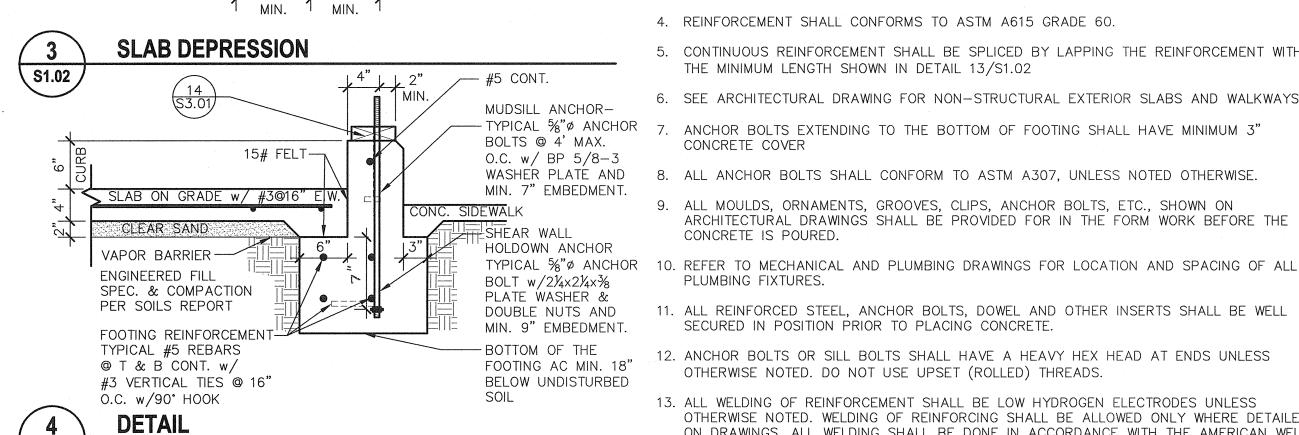
NOTE: SAWCUT SLAB WITHIN 12 HOURS OF POUR.

SLAB CONTROL JOINT (CJ) S1.02

N.T.S.

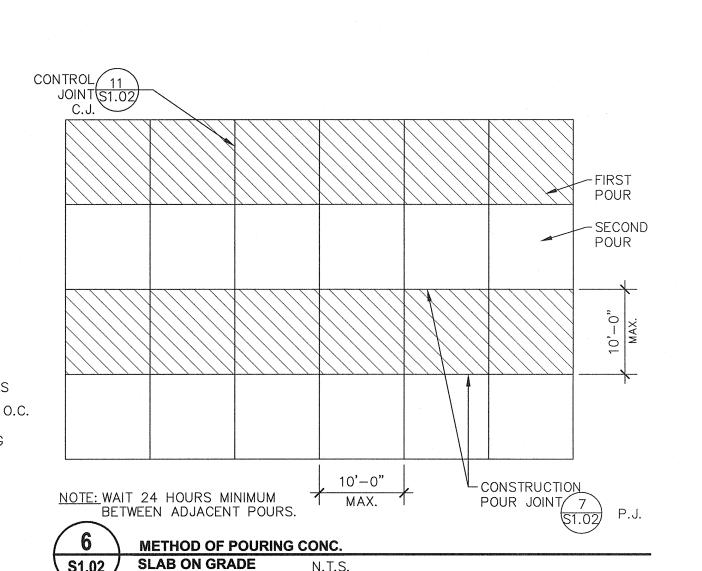
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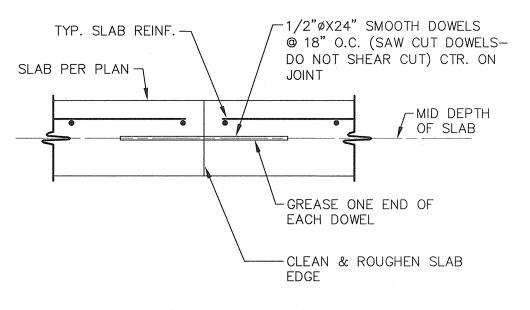




N.T.S.

S1.02





SLAB CONSTRUCTION JOINT (PJ S1.02 N.T.S. **CONCRETE NOTES**

0.45

5.5

1. PROPERTIES OF CONCRETE SHALL BE AS FOLLOWS. MAXIMUM MINIMUM MINIMUM AGGREGATE 28 DAYS COMP. | WATER/CEMENT | CEMENT SACK | SIZE PER CY SLUMP STRENGTH (PSI) RATIO SLABS ON GRADE 5.5 3000 0.45

2. CONCRETE SPECIFIED IN THESE DRAWING SHALL BE CONSIDERED AS STRUCTURAL

3. THE DIMENSION SHOWN FOR LOCATION OF REINFORCING STEEL ARE TO FACE OF BAR AND DENOTE CLEAR COVERAGE. UNLESS SPECIFICALLY NOTED. MIN. CONCRETE COVERAGE SHALL BE AS FOLLOWS:

<u>LOCATION</u> <u>COVERAGE</u> CONCRETE DEPOSITED DIRECTLY AGAINST THE GROUND (EXCEPT SLABS) -----3" CONCRETE EXPOSED TO THE GROUND BUT PLACED IN FORMS -----2" SLABS ON GRADE (CLEARANCE TO TOP SURFACE) -----2

4. REINFORCEMENT SHALL CONFORMS TO ASTM A615 GRADE 60.

1-1/2"

FOUNDATION

5. CONTINUOUS REINFORCEMENT SHALL BE SPLICED BY LAPPING THE REINFORCEMENT WITH THE MINIMUM LENGTH SHOWN IN DETAIL 13/S1.02

6. SEE ARCHITECTURAL DRAWING FOR NON-STRUCTURAL EXTERIOR SLABS AND WALKWAYS.

- TYPICAL 58" ANCHOR 7. ANCHOR BOLTS EXTENDING TO THE BOTTOM OF FOOTING SHALL HAVE MINIMUM 3" CONCRETE COVER

8. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE.

9. ALL MOULDS, ORNAMENTS, GROOVES, CLIPS, ANCHOR BOLTS, ETC., SHOWN ON ARCHITECTURAL DRAWINGS SHALL BE PROVIDED FOR IN THE FORM WORK BEFORE THE CONCRETE IS POURED.

11. ALL REINFORCED STEEL, ANCHOR BOLTS, DOWEL AND OTHER INSERTS SHALL BE WELL

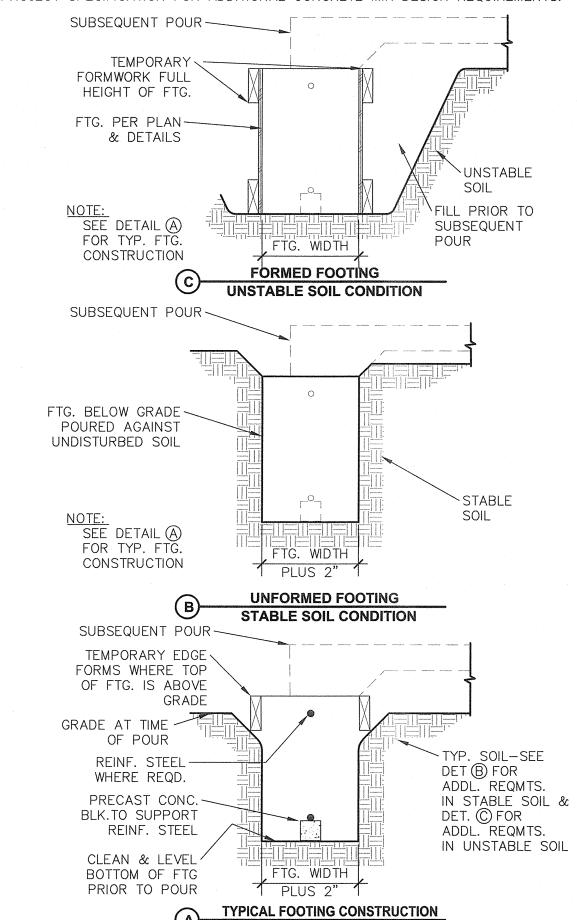
SECURED IN POSITION PRIOR TO PLACING CONCRETE.

12. ANCHOR BOLTS OR SILL BOLTS SHALL HAVE A HEAVY HEX HEAD AT ENDS UNLESS OTHERWISE NOTED. DO NOT USE UPSET (ROLLED) THREADS.

13. ALL WELDING OF REINFORCEMENT SHALL BE LOW HYDROGEN ELECTRODES UNLESS OTHERWISE NOTED. WELDING OF REINFORCING SHALL BE ALLOWED ONLY WHERE DETAILED ON DRAWINGS. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY SPECIFICATIONS AWS D1.4 WELDING SHALL NOT BE DONE WITHIN TWO BAR DIAMETERS OF ANY BENT PORTION OF A BAR THAT HAS BEEN BENT COLD. WELDING OF CROSSING BARS SHALL NOT BE PERMITTED FOR ASSEMBLY OF REINFORCEMENT UNLESS AUTHORIZED BY THE ENGINEER OF RECORD. ASTM A706 REINFORCING SHALL BE USED FOR ALL REINFORCING THAT IS BEING WELDED.

14. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY ENGINEER. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.

15. SEE PROJECT SPECIFICATION FOR ADDITIONAL CONCRETE MIX DESIGN REQUIREMENTS.



NOTES: 1. ALL FOOTINGS SHALL BE PLACED PER THE TYPICAL REQUIREMENTS OF DETAIL (A).

2. FOOTINGS MAY BE POURED DIRECTLY INTO NEAT EXCAVATIONS PER DETAIL (B) WHERE SOIL IS CONSIDERED STABLE AS DETERMINED BY THE ARCHITECT OR SOILS ENGINEER.

3. PROVIDE FORMWORK PER DETAIL (C) WHERE SOIL IS CONSIDERED UNSTABLE AS DETERMINED BY THE ARCHITECT OR SOILS ENGINEER.

4. SEE THE SOILS REPORT FOR OTHER REQUIREMENT.

TYP. FOUNDATION FORMWORK

S1.02

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DATE__

FILE #: 15-6

IDENTIFICATION STAMP

03-114521

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TRACKING #: 63321-118

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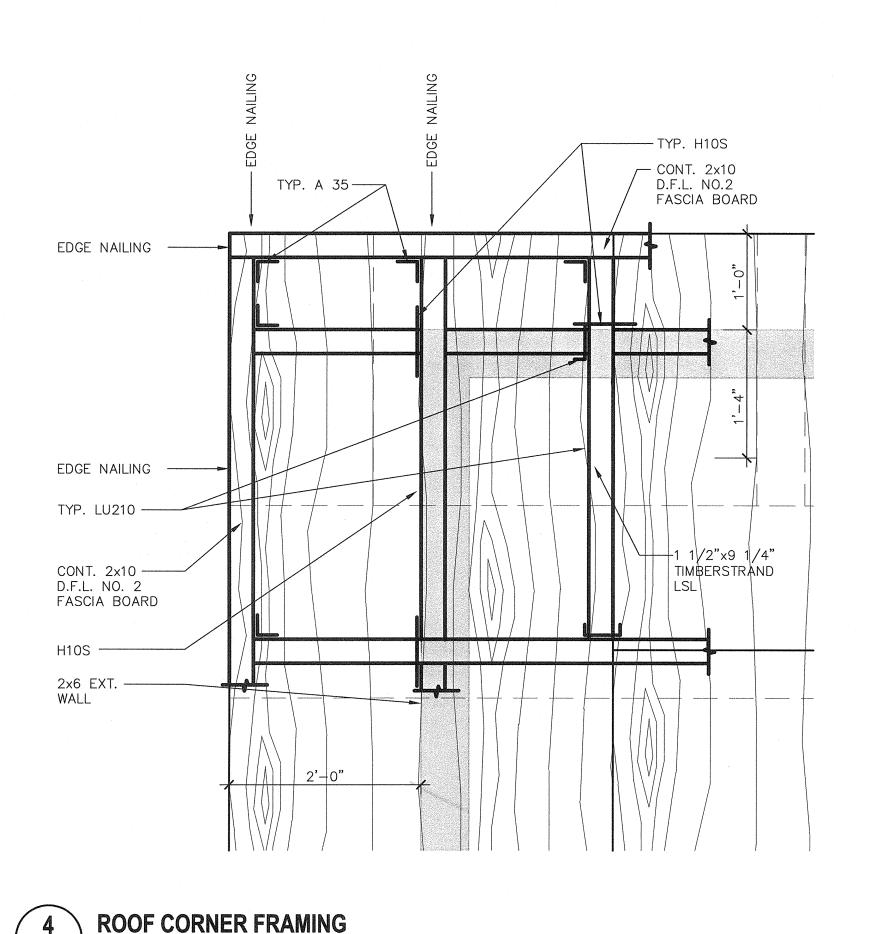
EXP. 6-30-13

3990

DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

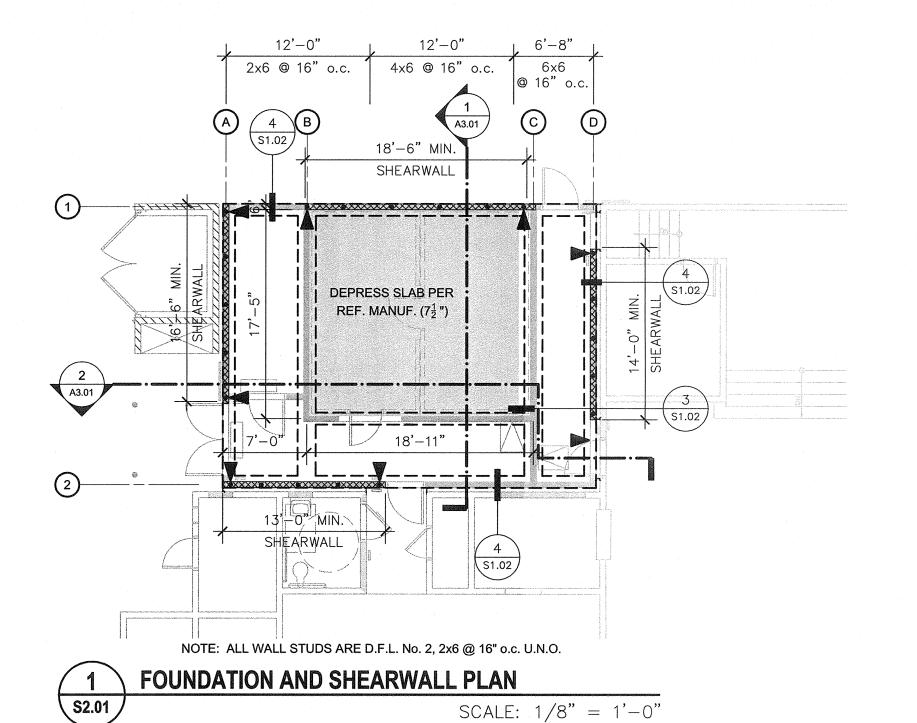
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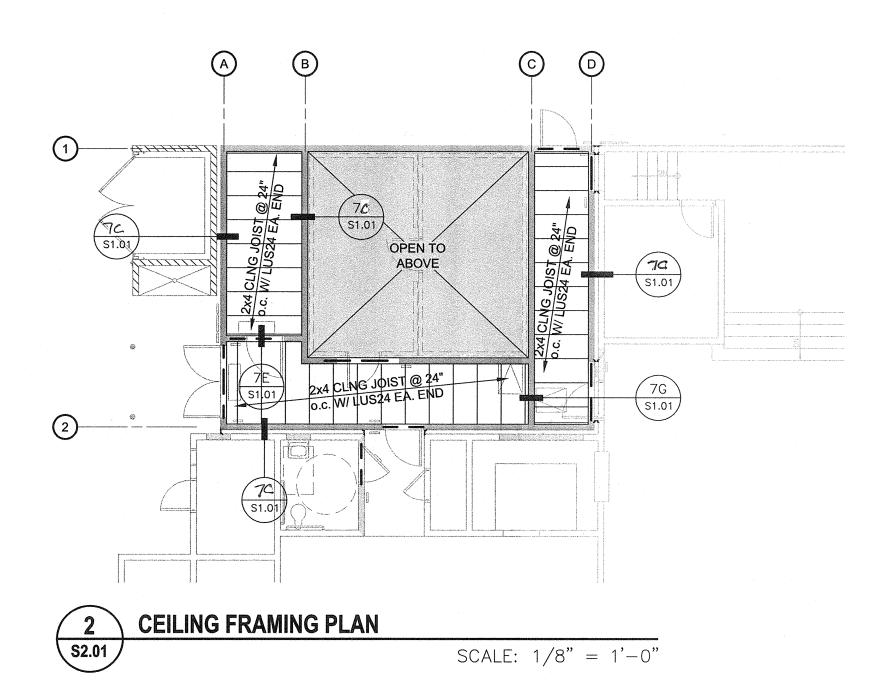
S1.02 N.T.S.

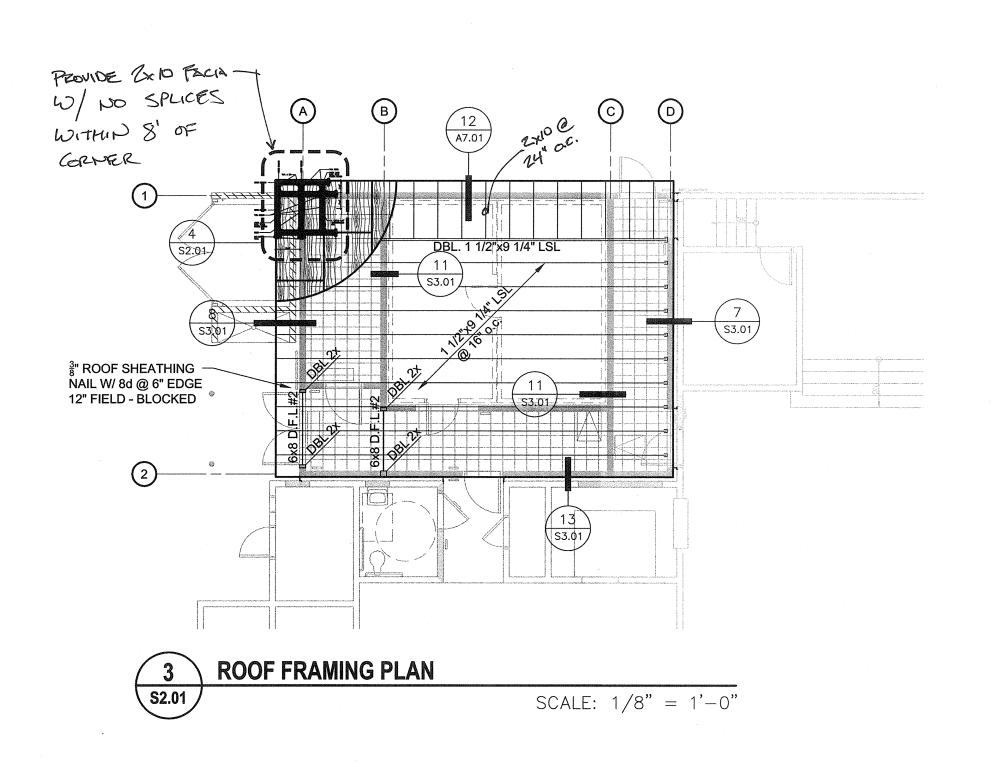


SCALE: 1" = 1'-0"

S2.01



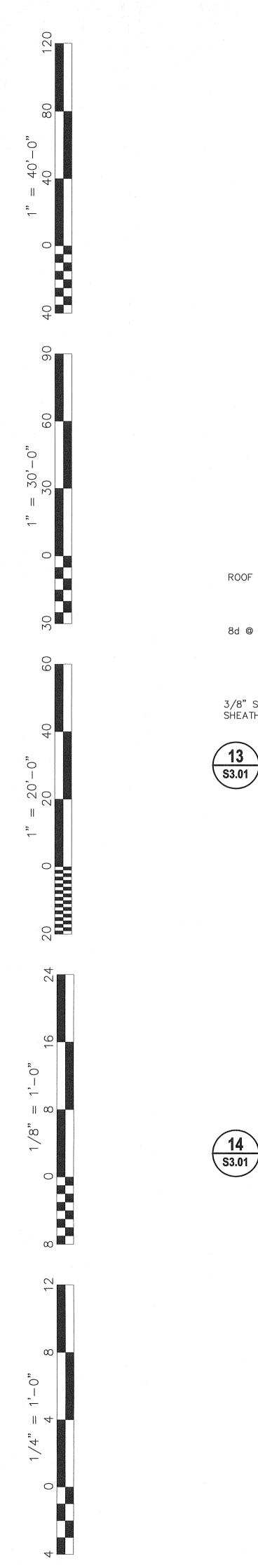




HOLDOWN SCHEDULE Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of SYMB TYPE Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for SIMPSON HTT4 WITH $\frac{5}{8}$ Ø HEAVY HEX HEAD ANCHOR BOLT (9" EMBED.) SEE 4/51.02 50%. AND USING 18 - 16d x 2 1/2" FASTENERS TO SINGLE any other project without written authorization © COPYRIGHT 2012 4 x 6 STUD SHEARWALL SCHEDULE SYMB **TYPE** 3" THK. STRUCT I SHEATHING W/ 8d NAILS, 6" o.c. ALL EDGES AND 12" o.c. AT FIELD3 BLOCKED PROVIDE $\frac{5}{8}$ "Ø L ANCHOR BOLTS @ 48" o.c. MAX AND MIN. (4) ANCHORS PER SHEARWALL (7" MIN EMBEDMENT) FOOTING SCHEDULE LINE SIZE REINFORCEMENT 16" WIDE 18" BELOW (2) #5 CONT. T&B (A) UNDISTURBED SOIL 18" WIDE 18" BELOW (2) #5 CONT. T&B B UNDISTURBED SOIL 18" WIDE 18" BELOW (2) #5 CONT. T&B C | UNDISTURBED SOIL 16" WIDE 18" BELOW (2) #5 CONT. T&B (D) UNDISTURBED SOIL 16" WIDE 18" BELOW (2) #5 CONT. T&B UNDISTURBED SOIL CHOOL ON 16" WIDE 18" BELOW (2) #5 CONT. T&B UNDISTURBED SOIL **FOUNDATION NOTES** S1.01 & S1.02 B. DIMENSIONS ARE TO CENTERLINE OF COLUMN OR FACE OF STUD UNLESS OTHERWISE NOTED. C. TOP OF FOOTING ELEV. TO BE AT (-) 0'-6" UNLESS OTHERWISE NOTED. D. REFER TO SITE PLAN FOR LOCATION AND DIMENSIONS OF SIDEWALKS, MOWSTRIPS, AND PLANTERS. INDICATES AREA OF DEPRESSED SLAB SEE 3/S1.02 FOR TYP. PERIMETER SECTION. U.N.O. FOR METHOD OF POUR OF CONCRETE SLABS ON GRADE, AND LOCATION OF CONTROL AND Agency Approval Stamp: CONSTRUCTION JOINTS SEE 6/S1.02. G. FOR REBAR SPLICE REQUIREMENTS SEE FILE #: 15-6 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 1/S1.02. H. REBAR BENDING AND FABRICATION TO BE PER 12, 13, 14, 15/S1.02 03-114521 COORDINATE ALL FLOOR DRAINS WITH ARCHITECTURAL, MECHANICAL AND ____FLS____\$S____ PLUMBING DRAWINGS. J. PENETRATION OF FOOTINGS WITH PLUMBING TRACKING #: 63321-118 PER 10/S1.02. K. NOT USED L. FOUNDATIONS TO BE FORMED PER 2/S1.02 M. VERIFY ALL DIMENSIONS w/ ARCH. PLANS. EXP. 6-30-13 N. CONTRACTOR TO VERIFY WIDTH OF ALL DOOR OPENINGS. O. FOR CONSTRUCTION JOINT IN CONTINUOUS FOOTINGS SEE 8/S1.02. ALL COLUMNS AND WALLS ARE TO BE CENTERED ON PADS AND FOOTINGS RESPECTIVELLY, U.N.O. Q. ALL EMBEDDED ITEMS SHALL BE IN PLACE AND SECURE PRIOR TO POURING OF

REFER TO DETAIL 4/S1.01 FOR NON-BEARING 3990 **S2.01**

WALLS AT SLAB.



ROOF JOIST -

8d @ 6" O.C.

3/8" STRUT.

RAKE @ LINE (2)

SIMPSON BP 5/8-3 -

PRESSURE TREATED -

2x6 MUD SILL

5/8"ø A.B.-

@ 4' MAX O.C.

SDW141-09

w/ MIN. 7" EMBED

TYP. MUD SILL DETAIL

WASHER P

FOR ALL ANCHOR BOLTS

SDW141-08

SHEATHING

HEADER SCHEDULE

| CLEAR | HEADER SIZE | NUMBER OF TRIMMERS | NUMBE KING S | | NUMBE SILL PI | |
|--------------------|-------------|-----------------------|-----------------|--------|------------------|--------|
| SPAN OF OPENING | | . 1 | EXTER. | INTER. | EXTER. | INTER. |
| UP TO 4'-0" | 6x4 | 1 | 1 | 1 | 1 | 1 |
| 4'-1" TO 6'-0" | 6x8 | 1 | 2 | 2 | 1 | 1 |
| | | | | | | |
| · | | | | | | |
| | | | | - | | |

NOTES:

1 NOT USED

-8d @ 6" O.C. 3/8" STRUT I ROOF SHEATHING

—— A 35 @ 16" О.С.

2x6 TOP ₽S

D.F.L. No. 2

-D.F.L. No. 2

2x6 STUDS

SCALE: $1 \frac{1}{2} = 1' - 0''$

SCALE: $1 \frac{1}{2} = 1' - 0''$

1/2"

GAP BŤWN.

EDGE OF

└-8d @ 6" O.C.

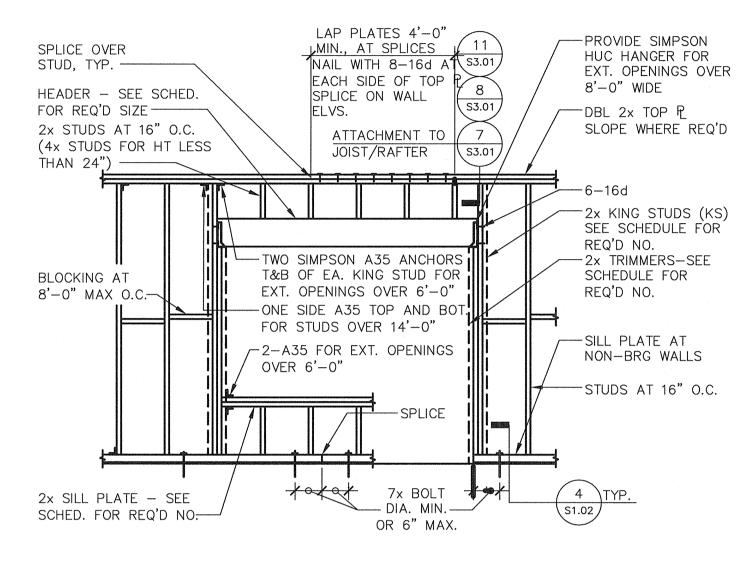
WASHER & EDGE OF MUD SILL

@ 16" O.C.

- CONT.

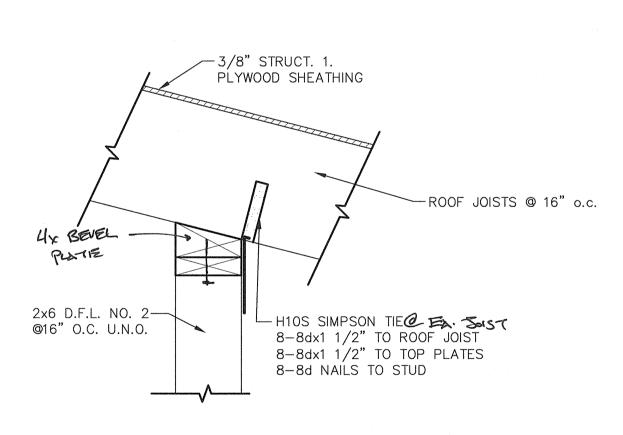
(2) DETAILS AND MEMBER SIZES ARE TYPICAL UNLESS OTHERWISE NOTED OR DETAILED.

3 NOTES AND MEMBER SIZES SHOWN ON FRAMING PLANS SHALL TAKE PRECEDENCE OVER SCHEDULE.



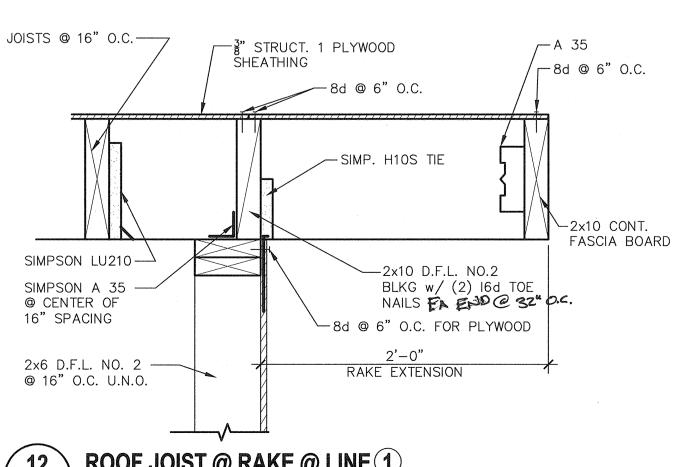
TYPICAL WALL FRAMING

S3.01 SCALE: $1 \frac{1}{2} = 1' - 0''$ SDW240-05



ROOF JOIST @ LINE B C INT. SUPPORT S3.01 SCALE: $1 \frac{1}{2} = 1' - 0''$

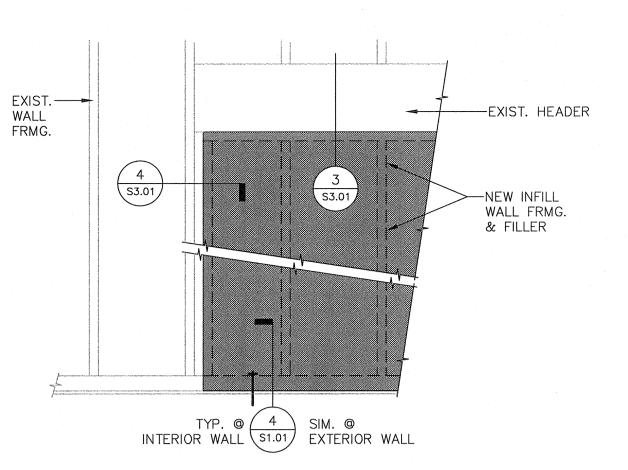
SDW141-06



ROOF JOIST @ RAKE @ LINE 1 S3.01 SDW141-07

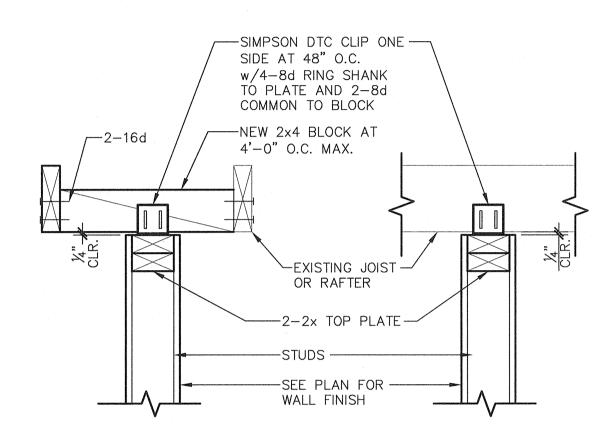
SCALE: $1 \frac{1}{2} = 1'-0"$

S3.01



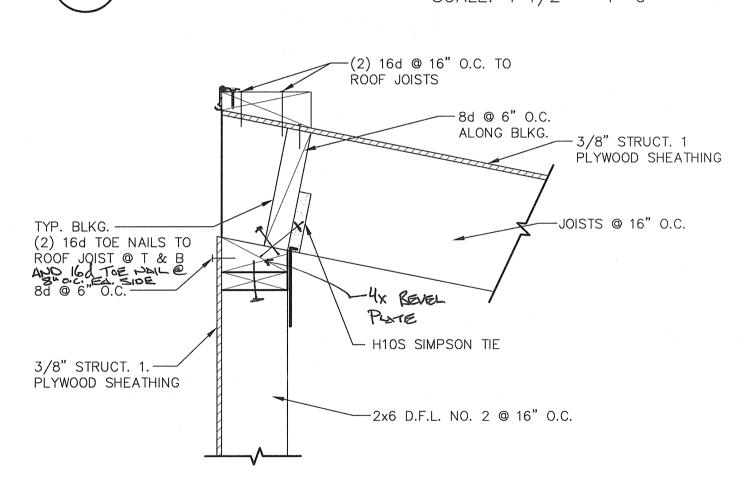
TYP. OPENING INFILL FRAMING ELEVATION

S3.01 SCALE: 3/4" = 1'-0"SDW141-01

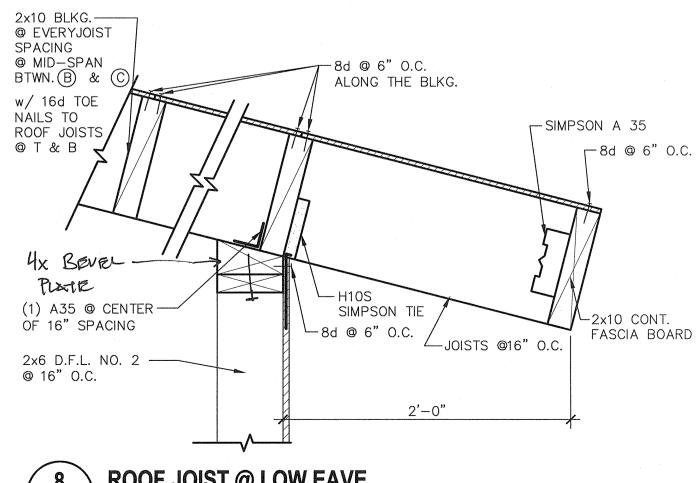


TYPICAL NON-BEARING WALL/ TOP PLATE **ATTACHMENT TO FRAMING**

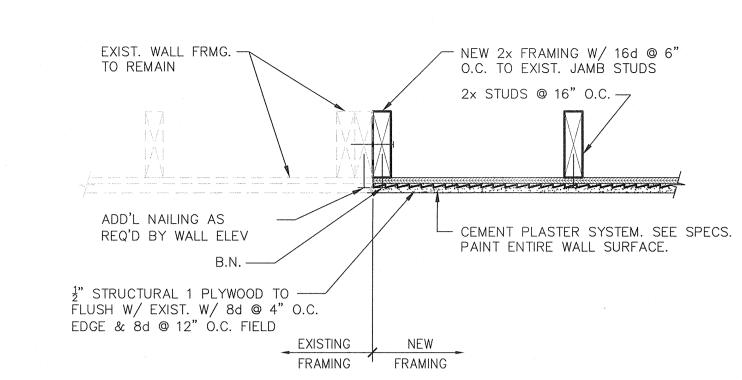
S3.01 SCALE: $1 \frac{1}{2}$ " = 1'-0" SDW240-01



ROOF JOIST @ HIGH EAVE S3.01 SDW141-10 SCALE: $1 \frac{1}{2} = 1' - 0''$

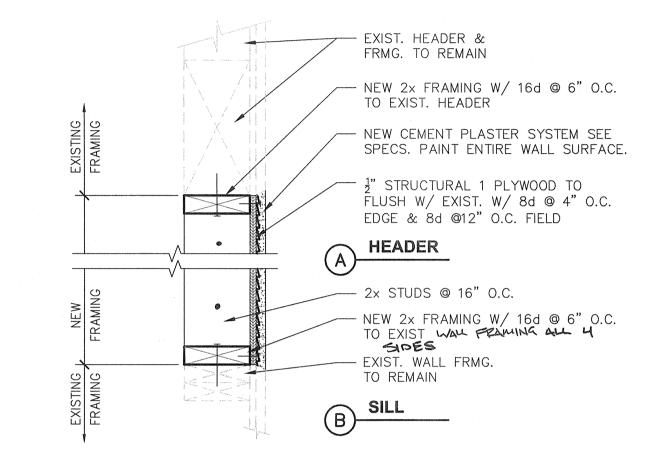


ROOF JOIST @ LOW EAVE SCALE: $1 \frac{1}{2} = 1' - 0''$ SDW141-05



TYPICAL INFILL FRAMING

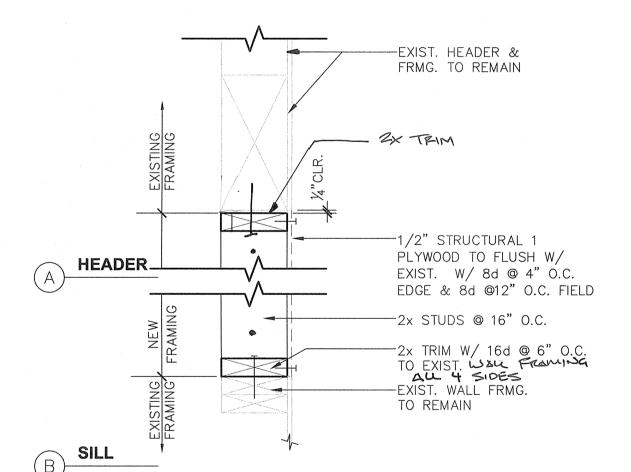
S3.01 SCALE: $1 \frac{1}{2} = 1'-0''$



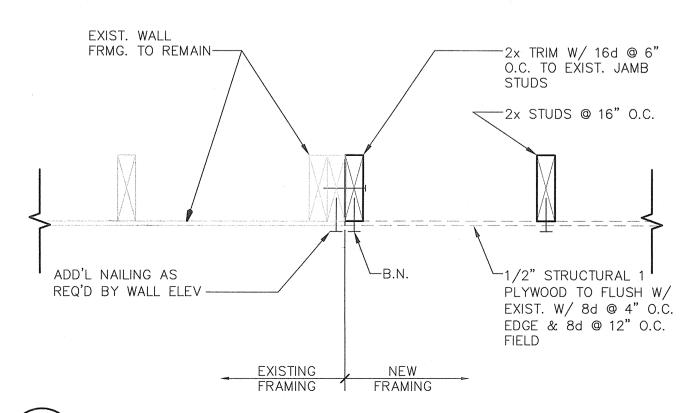
SCALE: 1.1/2" = 1'-0"

TYPICAL INFILL FRAMING @ HEADER & SILL S3.01

ADW141-22



TYPICAL INFILL FRAMING DETAIL @ HEADER & SILL S3.01 SCALE: $1 \frac{1}{2} = 1' - 0''$ SDW141-02



WALL INFILL S3.01 / SDW141-03 SCALE: $1 \frac{1}{2} = 1' - 0''$

EXP. 6-30-13 3990

S3.01

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MT. VERNON ELE KITCHEN

STRUCTU

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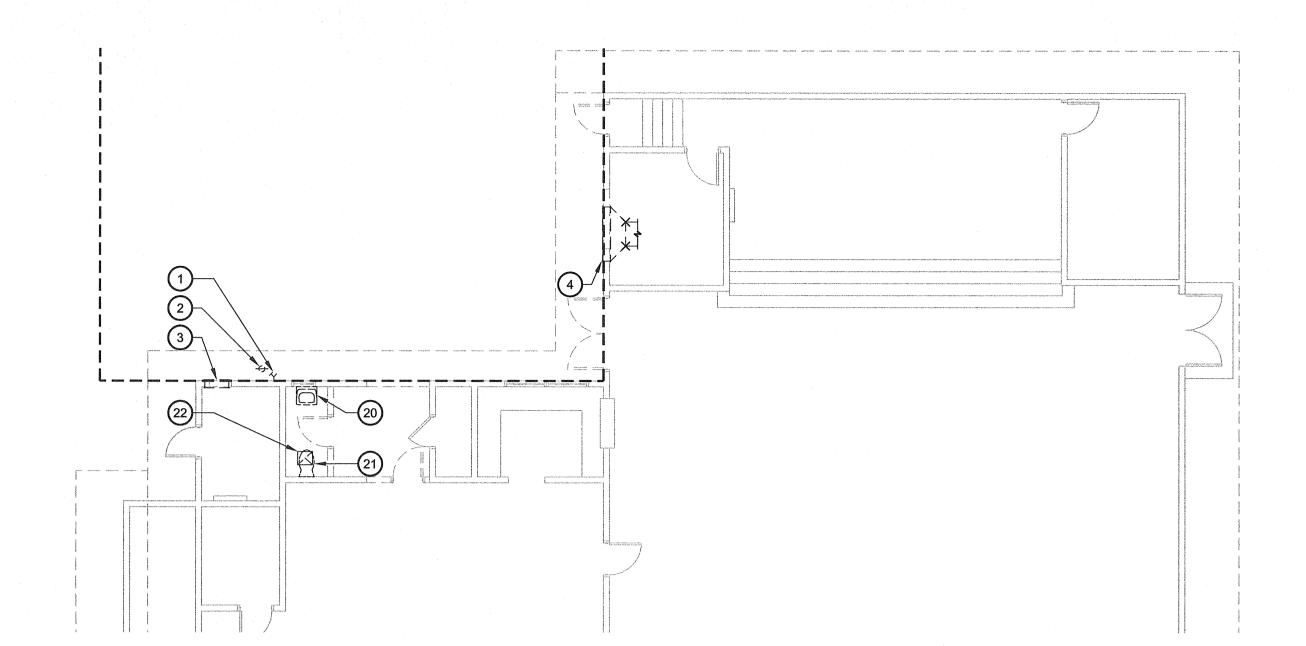
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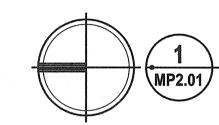
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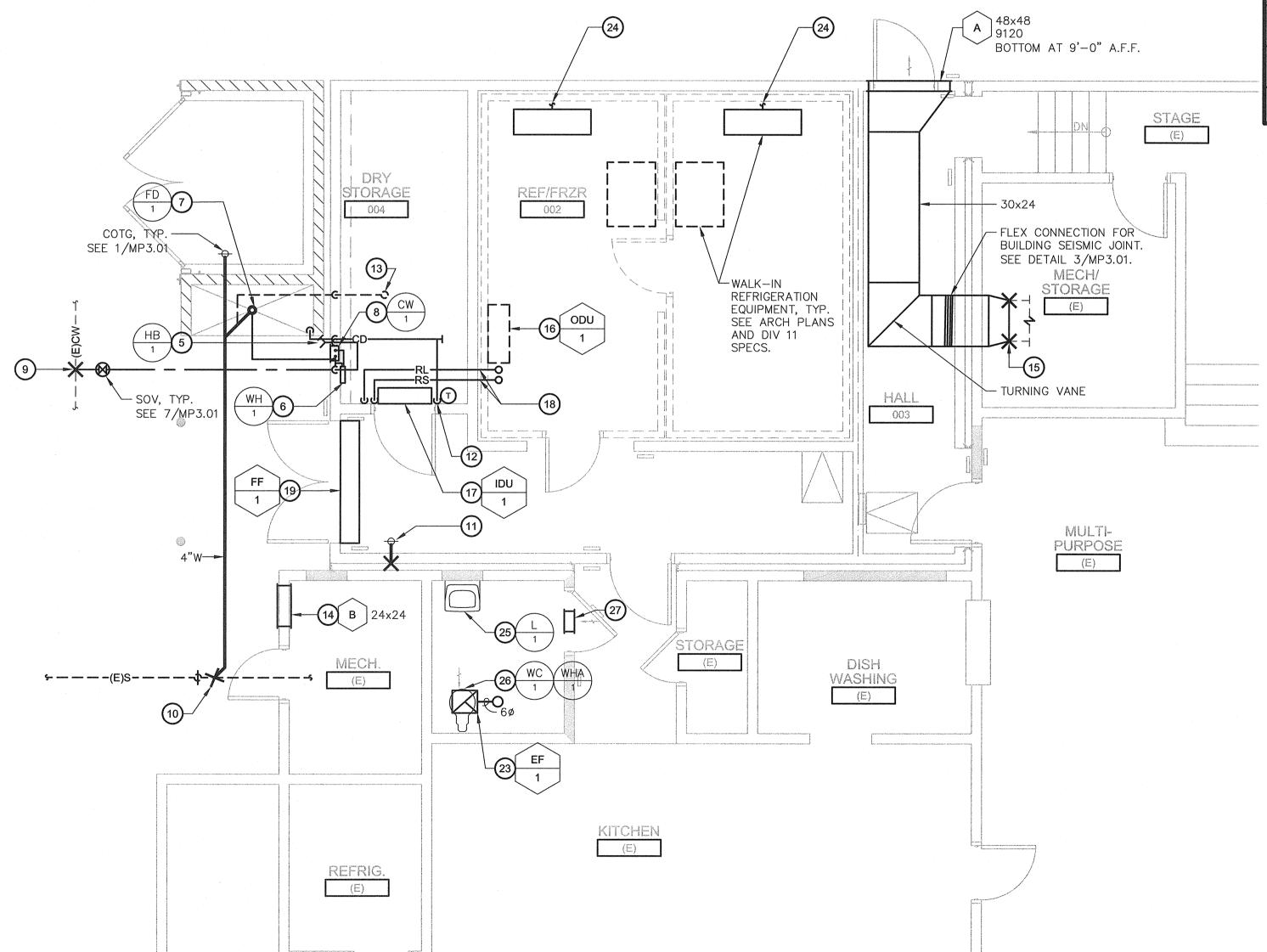




MECHANICAL DEMOLITION PLAN

KITCHEN ADDITION

SCALE: 1/8" = 1"





SCALE: 1/4" = 1'

| HV | AC LEGEN | | PLUMB | ING L | EGEND |
|-------------------------|---|--------|--|-----------|---------------------------|
| MBOL | DESCRIPTION | ABBR | SYMBOL | ABBR | DESCRIPTION |
| <u> </u> | EQUIPMENT DESIGNATION | | приконтикования методолого на подажения принципального принципального принципального подажения п | S. W. D. | SOIL, WASTE OR DRAIN |
| AC 1 | UNIT ABBREVIATION | AC-1 | | V | VENT |
| | NUMBER | | | CW | DOMESTIC COLD WATER |
| 10.100 | GRILLE DESIGNATION | | | HW | DOMESTIC HOT WATER |
| 120 | NECK SIZE & BLOW | | | HWR | DOMESTIC HOT WATER RETURN |
| | | | ——— G ——— | G | LOW PRESSURE NATURAL GAS |
| | SUPPLY AIR | SA | | HPG | HIGH PRESSURE NATURAL GAS |
| | RETURN AIR | RA | | RWL | RAIN WATER LEADER |
| $\overline{\mathbf{A}}$ | EXHAUST AIR | EXH | OL | OL | OVERFLOW LEADER |
| | | | CD | CD | CONDENSATE DRAIN |
| === | ACOUSTIC LINED DUCT | (L) | ф | FCO | FLOOR CLEANOUT |
| | DUCT RISER | | | сотс | CLEANOUT TO GRADE |
| | DUCT DROP | | - | wco | WALL CLEANOUT |
| | | | | VTR | VENT THROUGH ROOF |
| | VOLUME CONTROL DAMPER | VCD | | GV OR SOV | GATE OR SHUT - OFF VALVE |
| T | THERMOSTAT - 48" MAX. TO TOP OF BOX | T'STAT | | BV | BALL VALVE |
| S | SWITCH | | | GC | GAS COCK |
| | | (F) | | cv | CHECK VALVE |
| | EXISTING | (E) | | BF | BUTTERFLY VALVE |
| | NEW | (N) | | STR | STRAINER |
| | OUTSIDE AIR | OSA | | | UNION |
| <u> </u> | DOINT OF CONNECTION | POC | | | ELBOW UP |
| * | POINT OF CONNECTION | POC | | | ELBOW DOWN |
| | TYPICAL | TYP | | RED | REDUCER |
| - RL | REFRIGERANT LIQUID | RL | ~ | НВ | HOSE BIBB |
| | DEEDIGE AND | | ₹ | PRV | PRESSURE RELIEF VALVE |
| - RS | REFRIGERANT SUCTION | RS | * | POC | POINT OF CONNECTION |
| | | | | | CAP |

MEP COMPONENT ANCHORAGE NOTE

1615A.1.22 AND ASCE 7-05 CHAPTER 6 AND 13.

ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

COMPONENT.

FROM A WALL.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED

NDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE

AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2010 CBC, SECTIONS 1615A.1.12 THROUGH

3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND

HE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE

POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE

COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND

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

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS

INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND

COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-05 SECTION 13.3 AS DEFINED IN ASCE 7-05

DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #) AS MODIFIED

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND

SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2010 CBC, SECTIONS 1615A.1.20, 1615A.1.21 AND 1615A.1.22.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE

THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

SUPPORT THE HANGER AND BRACE LOADS.

LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG

2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO

HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS

THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.

CONNECT 3/4"CD TO INDOOR UNIT AND OFFSET ABOVE CEILING. DISCHARGE 3/4"CD TO CAN WASH DRAIN WITH AIR GAP. 2" VTR. AND BOTTOM AT 6" ABOVE FINISH FLOOR. SEAL WATER TIGHT.

KEY NOTES

REMOVE EXISTING HOSE BIBB AND CAP PIPING BEHIND FINISH

REMOVE EXISTING COTG AND REPLACE WITH NEW FCO. SEE MECH

REMOVE EXISTING HIGH AND LOW COMBUSTION AIR LOUVERS. INFILL

AND PAINT WALL TO MATCH EXISTING. SEE ARCH PLAN.

REMOVE EXISTING WALL EXHAUST LOUVER AND DUCT. SEE MECH REMODEL PLAN.

3/4"CW TO HOSE BIBB.

BRANCH 1/2"CW TO INSTANTANEOUS WATER HEATER.

3/4" WATER LINE BELOW GRADE FROM CAN WASH CONTROL BOX TO CAN WASH DRAIN.

3/4"CW & 1/2"HW TO CAN WASH CONTROL BOX.

POC 1"CW TO (E) CW BELOW GRADE. FIELD VERIFY SIZE AND

POC 4"W TO (E) SEWER BELOW GRADE. FIELD VERIFY SIZE AND

CONNECT TO (E) SEWER AND PROVIDE NEW FCO. FIELD VERIFY SIZE

AND LOCATION.

PROVIDE (2) COMBUSTION AIR LOUVERS. TOP AT 6" BELOW CEILING

POC NEW 30x24 EXH DUCT TO EXISTING. FIELD VERIFY SIZE AND LOCATION.

OUTDOOR UNIT ON ROOF PLATFORM. SEE 1/A4.01

INDOOR UNIT ON WALL. SEE 9/MP3.01.

REFRIGERANT PIPING ABOVE CEILING.

FLY FAN ON WALL ABOVE DOOR. SEE 11/MP3.01.

REMOVE EXISTING LAV AND REPLACE WITH NEW. EXTEND PIPING AS NEEDED AND RE-CONNECT.

REMOVE EXISTING WATER CLOSET AND REPLACE WITH NEW. EXTEND PIPING AS NEEDED AND RE-CONNECT.

REMOVE EXISTING CEILING EXHAUST FAN AND ASSOCIATED DUCTWORK AND REPLACE WITH NEW.

CEILING EXHAUST FAN WITH 6" ROUND EXHAUST DUCT UP THRU ROOF. TERMINATE MINIMUM OF 3 FEET FROM BUILDING OPENINGS AND 10 FEET FROM FRESH AIR INTAKE. RE-USE EXISTING ROOF OPENING WHEN POSSIBLE. PROVIDE FLASHING AND CAP ASSEMBLY. SEE 8/MP3.01.

CONNECT 1" CD TO REFRIG/FREEZER EQUIPMENT AND DISCHARGE TO CAN WASH DRAIN WITH AIR GAP, INSTALL CD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDING INSULATION AND/OR HEAT TRACE. SEE 2/MP3.01.

EXTEND EXISTING PLUMBING UTILITIES AS NEEDED TO NEW LAV: 3/4"CW & HW, 2"W, 1-1/2"V. PROVIDE NEW P-TRAP, TRAP ARM, WATER

STOP AND SUPPLY. 26. EXTEND EXISTING PLUMBING UTILITIES AS NEEDED TO NEW WATER

CLOSET: 1-1/2"CW, 4"S, 2"V. PROVIDE NEW WATER STOP AND SUPPLY 27. 12x12 DOOR LOUVER BY OTHERS. SEE ARCH PLANS.

GENERAL PLUMBING & HVAC NOTES

THE PLANS AND SPECIFICATIONS DESCRIBE THE PLUMBING AND HVAC WORK OF THIS PROJECT. ANY ITEMS MENTIONED IN ONE PART SHALL BE AS BINDING AS THOUGH MENTIONED IN BOTH. PROVIDE THE NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES FOR A COMPLETE FUNCTIONING SYSTEM.

PLUMBING AND HVAC LAYOUTS INDICATED ON PLANS ARE DIAGRAMMATIC ONLY. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. EXACT LOCATION OF EQUIPMENT, DUCTWORK AND PIPES SHALL BE COORDINATED WITH OTHER TRADES.

PROVIDE CLEANOUTS PER CPC SECTIONS 707, 719 AND 1101.12.

PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PER CBC SECTION 713. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE FIRE MARSHAL. SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE RATED ASSEMBLIES.

THE SEISMIC RESTRAINT OF MECHANICAL EQUIPMENT, DUCTWORK AND PIPES SHALL CONFORM TO 2010 CBC CHAPTER 16A.

PROVIDE FRESH AIR INTAKE SEPARATION FROM EXHAUST TERMINATION AND PLUMBING VENT TERMINATION PER CMC SECTION 510.8 AND CPC SECTION 906. COORDINATE WITH OTHER TRADES.

GENERAL PLUMBING **DEMOLITION NOTES**

DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURES AS

CAP ALL COLD WATER, HOT WATER, SOIL, WASTE, VENT AND GAS

ALL PLUMBING UTILITIES TO REMAIN IN SERVICE DURING

ALL EXISTING RISERS, DROPS, MAINS AND BRANCHES FOR EACH

SEE ARCHITECTURAL DEMOLITION PLANS FOR FURTHER DETAILS AND NOTES.

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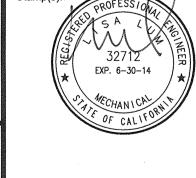
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INDICATED ON PLANS. ALL REMOVED PLUMBING FIXTURES ARE TO BE PROTECTED AND STORED FOR POSSIBLE FUTURE USE.

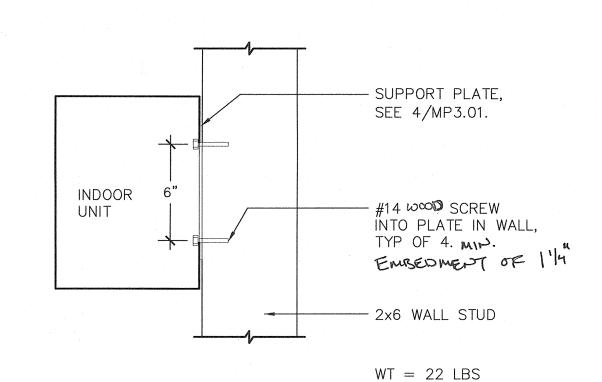
LINES BELOW FLOOR OR ABOVE CEILING.

DEMOLITION. COORDINATE ALL SHUT-DOWNS WITH MAINTENANCE STAFF TO MINIMIZE INTERRUPTION OF SERVICE.

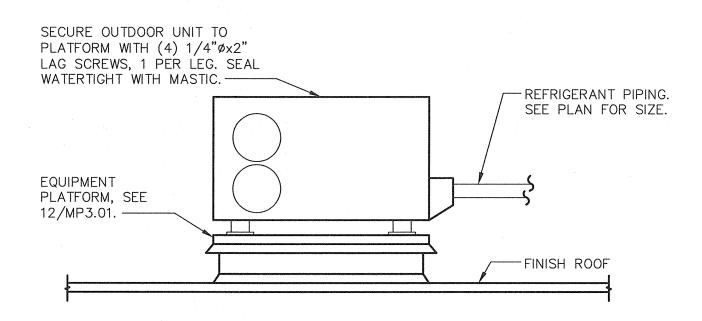
UTILITY TO REMAIN.

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MP2.01



INDOOR UNIT SCALE: N.T.S.

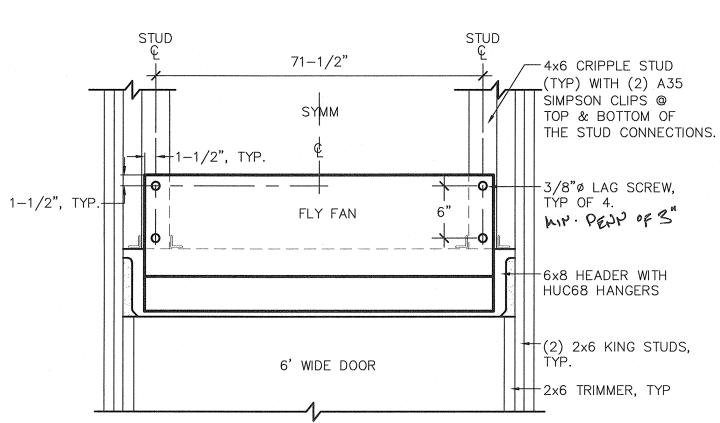


MAX WT = 200 LBS

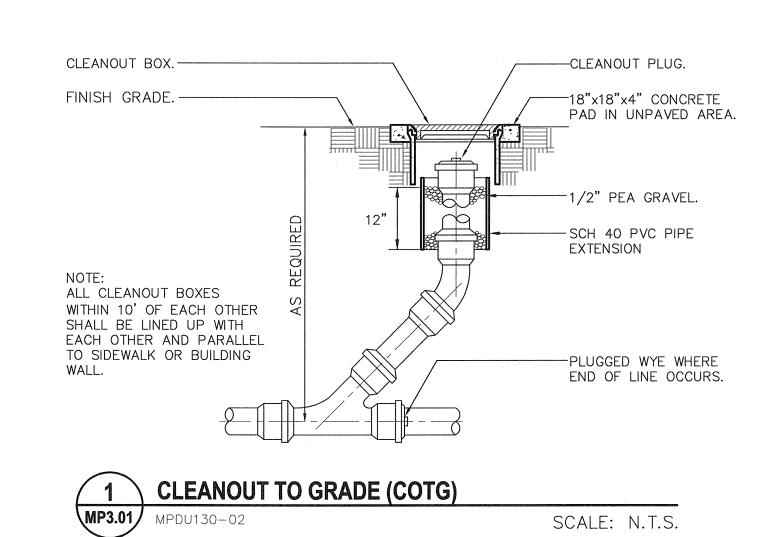
MAX. WT. = 150 LBS

OUTDOOR UNIT

SCALE: N.T.S.



11 **FLY FAN** MP3.01/ MPDV200-01 SCALE: N.T.S.



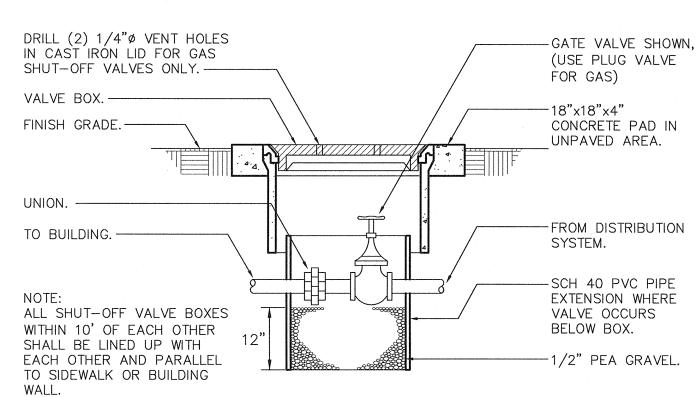
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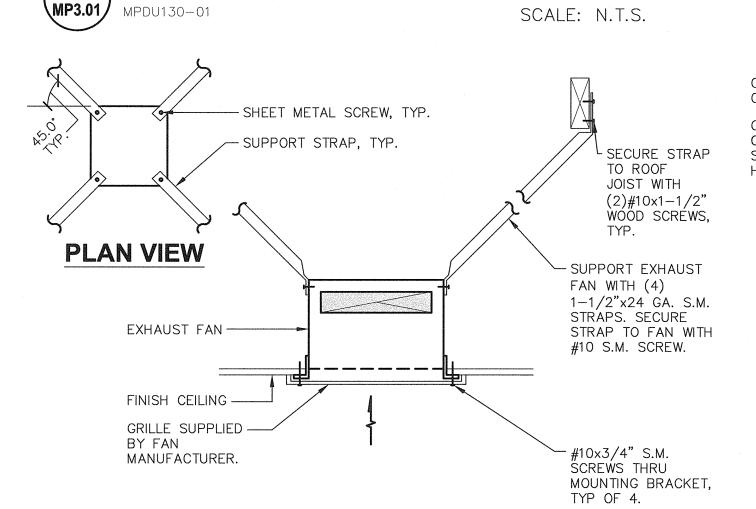
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-BRANCH DUCT, SEE PLAN FOR SIZE. - VOLUME DAMPER AT END OF -6" MINIMUM - CLINCH COLLAR - MAIN DUCT, SEE PLAN FOR SUPPLY AIR FLOW RETURN/EXHAUST AIR FLOW

RECTANGULAR DUCT - ANGULAR TAP \MP3.01*/* SCALE: N.T.S.

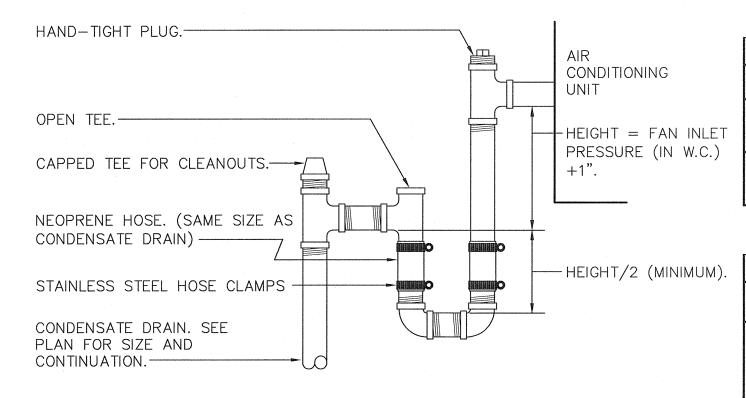




EXHAUST FAN - CEILING MP3.01 MPDM140-02

SHUT OFF VALVE IN BOX

SCALE: N.T.S.

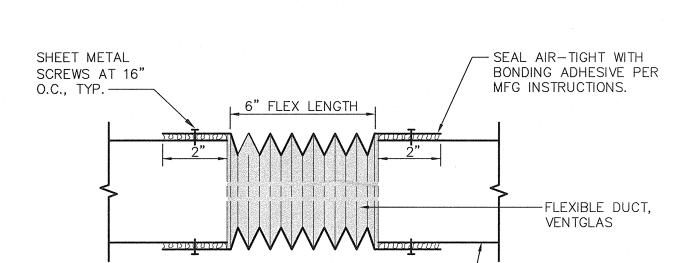


CONDENSATE DRAIN CONNECTION - DRAW THRU

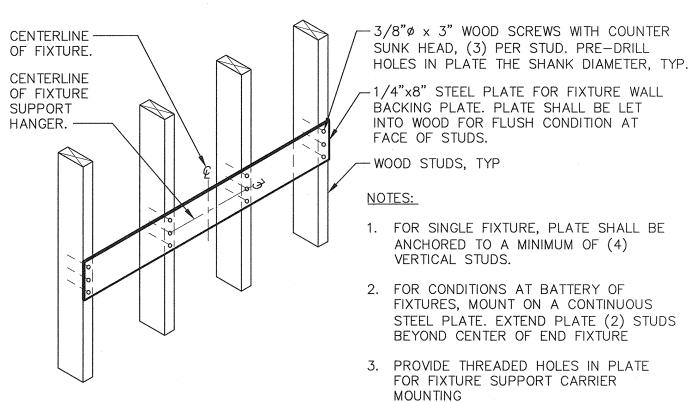
SCALE: N.T.S.

- SHEET METAL DUCT, SEE

PLAN FOR SIZE.



FLEXIBLE DUCT - BLDG SEISMIC JOINT MP3.01 SCALE: N.T.S.



MOUNTED TO PLATE FOR LAVATORY INSTALLATION. FIXTURE SUPPORT BACKING @ WOOD STUDS

4. PROVIDE J.R. SMITH CONCEALED ARMS

SCALE: N.T.S.

| | | | CONNE | CTIONS | | |
|----------|-------------------------------|------|----------|----------|----------------|--|
| MARK | FIXTURE | CW | HW | W | V | DESCRIPTION |
| WC 1 | WATER CLOSET ADA | 1" | - | 4" | 2" | KOHLER K-4405 "HIGHLINE", ELONGATED FLOOR MOUNT, 1.28 GPF, SLOAN ROYA MODEL 111-1.28 FLUSH VALVE WITH HANDLE POINTED TOWARDS WIDE SIDE OF STALL, OLSONITE 95CC/SS EXTRA HEAVY DUTY OPEN FRONT SEAT. |
| L 1 | LAVATORY ADA | 1/2" | 1/2" | 2" | 1-1/2" | KOHLER K-2005 "KINGSTON", 21"x18" WALL HUNG VITREOUS CHINA WITH 4" CENTERS, MCGUIRE 155A GRID DRAIN. CHICAGO 2200-4E39VPABCP 0.35 GPM, SINGLE LEVER FAUCET WITH VANDAL PROOF NON-AERATING OUTLET. PROVIDE J.R. SMITH 723 CONCEALED ARMS AND STEEL SUPPORT PLATE FOR FIXTURE MOUNTING. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHT. |
| HB 1 | HOSE BIBB | 3/4" | - | - - | . - | WOODFORD MODEL 24-P-BR ROUGH BRASS WALL FAUCET, 34HF ANTI-SIPHON VACUUM BREAKER, AND LOOSE TEE KEY. |
| WHA 1 | WATER HAMMER ARRESTER | 1/2" | _ | - | · <u>-</u> | SIOUX CHIEF HYDRA-RESTER 652-AS, SEAMLESS COPPER CHAMBER APPROVED FOR CONCEALED INSTALLATION, UP TO 11 FIXTURE UNITS. INSTALL IN UPWARD POSITION. |
| CW 1 | CAN WASH CONTROL BOX | 1/2" | 1/2" | - | - | J.R. SMITH MODEL 3380 FLUSH MOUNT STAINLESS STEEL BOX WITH KEY LOCK AND PIANO HINGED COVER, CONTROL VALVES, STOPS, VACUUM BREAKER. |
| FD 1 | CAN WASH DRAIN | - | 1/2" | 3" | 2" | J.R. SMITH MODEL 3370-C 12" SQUARE CAST IRON BODYWITH NICKEL BRONZE RI AND GRATE, BRONZE ADJUSTABLE SPRAY NOZZLE, SEDIMENT BUCKET, FLASHING CLAMP. |
| WH 1 | INSTANTANEOUS WATER HEATER | 1/4" | 1/4" | — · | - | CHRONOMITE MODEL M-30/208 WALL MOUNT INSTANTANEOUS WITH MICROPROCESSOR, PRESET TEMPERATURE OF 110°F, 1 GPM FLOW RATE. ELEC: 208V, 1 PH, 6240 WATTS. |

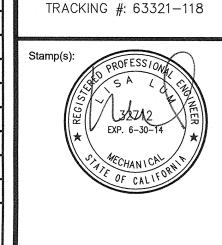
| | GRILLE SCHEDULE | | | | | | | | |
|---|-----------------|---------------------------|--|--|--|--|--|--|--|
| | MARK | LOCATION | DESCRIPTION | | | | | | |
| Γ | A | WALL EXHAUST | RUSKIN ELF6375DX DRAINABLE STATIONARY LOUVER, 6" DEEP FRAME AND BLADES OF EXTRUDED ALUMINUM, BIRD SCREEN, PRIME COAT FOR PAINTING. | | | | | | |
| | В | WALL COMBUSTION AIR | RUSKIN ELF6375DX DRAINABLE STATIONARY LOUVER, 6" DEEP FRAME AND BLADES OF EXTRUDED ALUMINUM, BIRD SCREEN, PRIME COAT FOR PAINTING. | | | | | | |
| | | AIR | OF EXTRUDED ALUMINUM, BIRD SCREEN, PRIME COAT FOR PAINTING. | | | | | | |

| ΛA | RK | IDU 1 |
|-----------|-------------------|-------------|
| ********* | CFM | 145 |
| <u>~</u> | MINIMUM OSA (CFM) | 0 |
| BLOWER | VOLTS/PHASE | 208/1 |
| BLC | DRIVE | DIRECT |
| - | TOTAL (MBH) | 9.0 |
| | EADB/EAWB (°F) | 80 / 67 |
| <u>S</u> | AMBIENT (°F) | 95 |
| SOOLING | REFRIGERANT | R410A |
| Ö | CONDENSATE CONN | 5/8" |
| | SEER | 21.0 |
| <u>o</u> | CAPACITY (MBH) | 10.9 |
| HEATING | KW | 0.76 |
| Ψ | HSPF | 10.0 |
| | QUANTITY/SIZE | |
| ERS | TYPE | |
| FILTERS | PD (IN WC) | |
| | | |
| ſΑ | NUFACTURER | MITSUBISHI |
| YF | | HEAT PUMP |
| 10 | DEL NUMBER | MSZ-GE09NA |
| | RVICE | DRY STORAGE |
| P | WT (LBS) | 22 |
| C | CESSORIES | 1,2 |

| | FF |
|--------------------|-----------|
| MARK CFM | 5100 |
| | |
| DOOR WIDTH | 72" |
| MOTOR QUANTITY/HP | 2 / 0.5 |
| VOLTS/PHASE | 115/1 |
| SOUND (DBA AT 10') | 68 |
| DRIVE | DIRECT |
| MOUNTING | WALL |
| MANUFACTURER | MARS |
| TYPE | |
| MODEL NUMBER | STD72-2U |
| CONTROL | 1 |
| SERVICE | SEE PLANS |
| OP WT (LBS) | 145 |
| ACCESSORIES | 1 |

| OUTDOOR UNIT S | CHEDULE |
|------------------------|-------------|
| MARK | |
| WARK VOLTS/PHASE | 208/1 |
| COOLING CAP (MBH) | 9.0 |
| HEATING CAP (MBH) | 10.9 |
| AMBIENT (°F) | 95 |
| SEER/COP AT ARI | 21.0 / - |
| HSPF | 10.0 |
| REFRIGERANT | R410A |
| LIQUID LINE SIZE (IN) | 1/4" |
| SUCTION LINE SIZE (IN) | 3/8" |
| MANUFACTURER | MITSUBISHI |
| TYPE | HEAT PUMP |
| MODEL NUMBER | MUZ-GE09NA |
| SERVICE | DRY STORAGE |
| OP WT (LBS) | 66 |
| ACCESSORIES | - |

| MARK | I II |
|--------------|-----------|
| CFM | 85 |
| ESP (IN WC) | 0.125 |
| HP/BHP/WATTS | -/-/49.7 |
| VOLTS/PHASE | 115/1 |
| RPM | 700 |
| TIP SPEED | - |
| SONES | 2.0 |
| DRIVE | DIRECT |
| MOUNTING | CEILING |
| MANUFACTURER | GREENHECK |
| TYPE | |
| MODEL NUMBER | SP-B90 |
| CONTROL | 1 |
| SERVICE | SEE PLANS |
| OP WT (LBS) | 10 |
| ACCESSORIES | |



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DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

03-114521

DATE 8/1/12

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| Low clanad Ma | | | | | n a Steep-Sloped with less d 5 are exempted, solar re | | | | | <u> </u> | <u> </u> |
| SRI that have a | u U-factor | of 0.039 | or lower. | See Opaque | e Surface Details roof asso 5 are exempted, solar rele | embly, Colum | nn H of I | ENV-2C. | | | |
| that have a U-fa | actor of C | 0.048 or I | ower. See | Opaque Su | rface Details roof assembl | ly below, Colu | umn H 🤉 | of ENV-2C. | " □ | | |
| exempted. Sol | ar reflect | ance and | d thermal e | mittance or | aic panels and building into SRI, see spreadsheet calo | culator at ww | w.enerc | yv.ca.gov/title24 | <u>/</u> | | |
| the Cool Roof of | riteria be | low. | | | of membrane with a weigh | | | | | | |
| High-rise reside | | | | | ith low-sloped roofs in Clin | nate Zones 1 | through | 19, 12 and 16 a | re 🗆 | | |
| | | | | | ist Form and take appropr | iate action to | correct | . Verify building | plans if ne | cessary. | 1 |
| CRRC Product ID | Roof | Slope | Product | Weight | Product | Aged So | olar | Thermal | | | |
| Number ¹ | ≤ 2:12 | > 2:12 | < 5lb/ft² | ≥ 5lb/ft² | Type ² | Reflectar | nce ³ | Emmitance | SRI⁵ | Pass | Fail ⁶ |
| | | | | | | | | | | | |
| | | | | <u> </u> | | +=+ | | · · · · · · · · · · · · · · · · · · · | | | |
| *************************************** | | П | | | | D ⁴ | | | | П | |
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| Project Name | | | | | Date 3/22/2012 |
| At. Vernon Elementary School | | | Total Co. | nd. Floor Area | Addition Floor Area |
| Project Address | CA Climate | te Zone 13 | Total Co | 136 | 136 |
| 2161 Potomac Ave. Bakersfield | UA Olimai | te zone 15 | | | |
| GENERAL INFORMATION Building Type: Nonresidential | ☐ High-Ris | e Residential | | Hotel/Mote | I Guest Room |
| Building Type: ☑ Nonresidential ☐ Relocatable - indica | | climate zone | ā | all climates | |
| Phase of Construction: New Construction | ☑ Addition | | П | Alteration | |
| STATEMENT OF COMPLIANCE | | | | | |
| This certificate of compliance lists the building feat | ures and specificati | ons needed to |) | | |
| comply with Title 24. Parts 1 and 6 of the California | a Code of Regulatio | ns. This | | | |
| certificate applies only to a Building using the perfo | ormance compliance | e approacn. | | | |
| The documentation author hereby certifies that the | documentation is a | accurate and c | ompiete | • | |
| Documentation Author | ab contract of the contract of | Signature L. | 0 | | |
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| Company Integrated Designs by SOMAM, Inc. | | | Pho | 3/22/2012 | |
| Address 6011 N. Fresno Street, Suite 130 | | | | ne 559-436-08 | 381 |
| City/State/Zip Fresno, CA 93710 | | | | | |
| The Principal Designer hereby certifies that the pro- | oposed building des | sign represente | ed in this | s set of | ملتئين لمسم معملات |
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| Project Name Mt. Vernon Elementary School | | | Date 3/22/2012 |
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| Required Acceptance Tests | | | - Set to be to V. P. |
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| This form is to be used by the designer and atta | | | |
| Fenestrations system. The designer is required | | | |
| require an acceptance test. If all the site-built f | enestration of a cer | tain type requires a to | est, list the different fenestration |
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| Manual describes the test. Since this form will I party to budget for the scope of work appropria | | , completion of this se | ection will allow the responsible |
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| Enforcement Agency: | | | |
| Systems Acceptance. Before Occupancy Per | mit is granted for a | newly constructed bu | illding or space or whenever new |
| fenestration is installed in the building or space | | | |
| The ENV-2A form is not considered a complete | | | |
| boxes are checked and/or filled and signed. In enforcement agency that certifies plans, speci- | | | |
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ENV-1C

(Part 3 of 3)

CERTIFICATE OF COMPLIANCE
AND FIELD INSPECTION ENERGY CHECKLIST

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| ntation: N, E, S, W or in l | | | | <u></u> | AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. | | | - | | | | |
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| SURFACE DETAILS | | | | INSU | ATION | 1 | T | r | | 1 | Т | T |
| Assembly Type | Area (ft²) | Orientation N, E, S, W | U-Factor | Cavity R-Value | Exterior R- Value | Exterior Furring ³ | Interior R- Value | Interior Furring ³ | Joint Appendix 4 | Condition Status | Pass | 1 |
| Roof | 140 | (N) | 0.034 | R-30 | 7 | | | | 4.2.2-A40 | New | | |
| Vall | 86 | (N) | 0.074 | R-19 | | i. | | | 4.3.1-A5 | New | | L |
| Door | 42 | (N) | 0.700 | None | | | | | 4.5.1-A2 | New | | L |
| Vall | 68 | (E) | 0.074 | R-19 | 1 | | | | 4.3.1-A5 | New | | L |
| Slab | 136 | (N) | 0.730 | None | 9 | | | | 4.4.7-A1 | New | | L |
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| en describe on Page 2 of the | e Inspectio | n Che | cklist Fo | ge 3-96. rm and t | ake approp | oriate actio | n to correc | at. A fail | does not me | et compliar | ice. | indus. |
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| Fenestration Type | | A Commence of the Commence of | Area (ff') | Orientatio N, E, S, W | Max U-Factor | U-Factor Source | Max (R)SHGC | SHGC | Source Overhang | Condition Status | Pass | • |
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| 2 (r) () () | Assembly Type roof Vall Joach Describe on Page 2 of the RATION SURFACE D Fenestration: | Assembly Type Assemb | Assembly Type Assemb | Assembly Type Assembly Type Toof Toor Assembly Type Toor Assembly | Assembly Type Assembly Type Coor | Assembly Type Assemb | Construction: New Construction Addition Of Compliance: Component Overall Envel Intation: N, E, S, W or in Degrees: 0 deg | Construction: New Construction Addition | New Construction Addition Def Compliance: Component Overall Envelope Def Compliance: Component Overall Envelope Def Compliance: Component Overall Envelope Def Compliance: Overall Envelope Def Component Def Component Overall Envelope Def Component Def Com | of Compliance: | Construction: New Construction Mew Construction | New Construction New Construction 2 Addition 3 Alteration 3 Alteration 3 Compolence 3 Compolence 4 Compolence 4 |

| Project Name | CERTIFICAT | | | (Part 2 of 3 | Date |
|---|--|----------------------------|--|---|---|
| Mt. Vernon Elementary ANNUAL TDV ENERGY | | (Btu/saft-vr) | | | 3/22/2012 |
| ARROAL IDV ENLINGT | Standard Standard | Proposed | Compliance | | |
| Energy Component | Design | Design | Margin | | |
| Space Heating | 20.96 | 6.97 | 13.99 | Heating | |
| Space Cooling | 77.50 | -12.23 | 89.73 | Cooling | |
| Indoor Fans | 75.90 | 102.05 | -26.15 | Fans | |
| Heat Rejection | 0.00 | 0.00 | 0.00 | Heat Rej | |
| Pumps & Misc. | 0.00 | 0.00 | 0.00 | Pumps | |
| Domestic Hot Water | 0.00 | 0.00 | 0.00 | DHW | |
| Lighting | 37.06 | 37.06 | 0.00 | Lighting | - CAMPAGE 1881 |
| Receptacle | 11.30 | 11.30 | 0.00 | Receptacle | |
| Process | 0.00 | 0.00 | 0.00 | Process | |
| Process Lighting | 0.00 | 0.00 | 0.00 | Process Ltg | |
| TOTALS | 222.72 | 145.15 | 77.57 | | |
| Percent better than Stand | lard | 34.8 % | (34.8 % exclud | ding process) | |
| | | BUILDING | COMPLI | =\$ | |
| GENERAL INFORMATIO | | | | | |
| | | | | | |
| Building Orientation | (N) 0 deg | | ed Floor Area | | 136 sqft. |
| Number of Stories | 1 | | oned Floor Area | | 0 sqft. |
| Number of Systems | 1. | | ed Footprint Are | | 136 sqft. |
| Number of Zones | 1 | Natural G | as Available On | Site | Yes |
| | —————————————————————————————————————— | _: | | | |
| | Orientation | n Gross A | | Glazing Area | Glazing Ratio |
| Front Flouration | (N) | | 128 sqft. | o sqft. | 0.0 % |
| Front Elevation | | | 201 nmft | 0 - 44 | 2.2.2 |
| Left Elevation | (E) | | 68 sqft. | 0 sqft. | |
| Left Elevation Rear Elevation | (E) (S) | | 0 sqft. | 0 sqft. | 0.0 % |
| Left Elevation Rear Elevation Right Elevation | (E) (S) (W) | | o sqft. | 0 sqft. 0 sqft. | 0.0 % |
| Left Elevation Rear Elevation Right Elevation T | (E) (S) | | 0 sqft. 0 sqft. 196 sqft. | 0 sqft. 0 sqft. 0 sqft. | 0.0 % 0.0 % 0.0 % |
| Left Elevation Rear Elevation Right Elevation | (E) (S) (W) | | o sqft. | 0 sqft. 0 sqft. | 0.0 % 0.0 % 0.0 % |
| Left Elevation Rear Elevation Right Elevation T | otal (E) (S) (W) otal | Standard 0.600 6,581 | 0 sqft. 0 sqft. 196 sqft. 140 sqft. | 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. Pre 0.600 W/sqft. Cor | 0.0 % 0.0 % 0.0 % |
| Left Elevation Rear Elevation Right Elevation T Roof Prescriptive Lighting Pow | otal (E) (S) (W) otal | 0.600 W | 0 sqft. 0 sqft. 196 sqft. 140 sqft. Prop | 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. Pre 0.600 W/sqft. Cor | 0.0 % 0.0 % 0.0 % 0.0 % scriptive Values for mparison only. See |
| Left Elevation Rear Elevation Right Elevation T Roof Prescriptive Lighting Pow | otal (E) (S) (W) otal | 0.600 W | 0 sqft. 0 sqft. 196 sqft. 140 sqft. Prop | 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. Pre 0.600 W/sqft. Cor | 0.0 % 0.0 % 0.0 % 0.0 % scriptive Values for mparison only. See |
| Left Elevation Rear Elevation Right Elevation T Roof Prescriptive Lighting Pow | otal (E) (S) (W) otal | 0.600 W | 0 sqft. 0 sqft. 196 sqft. 140 sqft. Prop | 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. Pre 0.600 W/sqft. Cor | 0.0 % 0.0 % 0.0 % 0.0 % scriptive Values for mparison only. See |
| Left Elevation Rear Elevation Right Elevation T Roof Prescriptive Lighting Pow | otal (E) (S) (W) otal | 0.600 W | 0 sqft. 0 sqft. 196 sqft. 140 sqft. Prop | 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. Pre 0.600 W/sqft. Cor | 0.0 % 0.0 % 0.0 % 0.0 % scriptive Values for mparison only. See |
| Left Elevation Rear Elevation Right Elevation T Roof Prescriptive Lighting Pow | otal (E) (S) (W) otal | 0.600 W | 0 sqft. 0 sqft. 196 sqft. 140 sqft. Prop | 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. Pre 0.600 W/sqft. Cor | 0.0 % 0.0 % 0.0 % 0.0 % scriptive Values for mparison only. See |
| Left Elevation Rear Elevation Right Elevation T Roof Prescriptive Lighting Pow | otal (E) (S) (W) otal | 0.600 W | 0 sqft. 0 sqft. 196 sqft. 140 sqft. Prop | 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. 0 sqft. Pre 0.600 W/sqft. Cor | 0.0 % 0.0 % 0.0 % 0.0 % scriptive Values for mparison only. See |

| This document, the incorporated hereing Professional Servente Integrated Designand is not to be used any other project with | ne idea n, as a vice is t gns by d, in wh | s and den instrument propession of the propessio | esigns nent of erty of Inc. n part f | or |
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| M, Inc. | | Rev. Date: | | |
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| EERING - In 36-0881 | | Rev. Date: | | |
| ARCHITECTURE - ENGINE 80 | | Revision Description: | | |
| | | Revision: | | |
| Sheet Title: TITLE 24 Project Name & Address: | MT. VERNON ELEMENTARY SCHOOL | KICHEN ADDITON | BAKERSFIELD CITY SCHOOL DISTRICT | 2161 POTOMAC AVENUE BAKERSFIELD CA, |
| ssue Date: 7/20/12 ate: 7/17/12 esigner: | elections experience | 'R: | Ċ: | S |
| Agency Approval Sta FILE # IDENTIFICA DIV. OF THE S OFFICE OF REGI 03- ACFLS DATE TRACKING #: | : 15— TION STATE ULATIO | STAM ARCHIT ON SER' 21 SS | P ECT VICES | |
| | Issue Date: Sheet Title: COCODAR COCO | Issue Date: Sheef Title: Sheef | See Title: Sheet Title: Shee | Street Title: TITLE 24 Street Title: Street Tit |

Job No.: 3990
Sheet No.: MP4.01

| | OPE MANDATORY MEASURES: NONRESIDENTIAL | ENV-MN |
|---------------------------|---|---|
| Project Name Mt. Verno | n Elementary School | Date 3/22/2012 |
| DESCRI | | |
| Building E | Envelope Measures: | |
| §118(a): | Installed insulating material shall have been certified by the manufacturer to comply with the C Standards for insulating material, Title 20 Chapter 4, Article 3. | |
| §118(c): | All Insulating Materials shall be installed in compliance with the flame spread rating and smoke Sections 2602 and 707 of Title 24, Part 2. | e density requirements o |
| §118(f): | The opaque portions of framed demising walls in nonresidential buildings shall have insulation of no less than R-13 between framing members. | with an installed R-value |
| §117(a): | All Exterior Joints and openings in the building that are observable sources of air leakage shal weatherstripped or otherwise sealed. | be caulked, gasketed, |
| §116(a) 1: | Manufactured fenestration products and exterior doors shall have air infiltration rates not excewindow area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential double doors (swinging). | eding 0.3 cfm/ft.² of dential single doors |
| §116(a) 2: | Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U | -factor. |
| §116(a) 3: | Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fe applicable default SHGC. | nestration, or the |
| §116(b): | Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the bui weatherstripped (except for unframed glass doors and fire doors). | lding, and shall be |
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| EneravPro 5 | 1 by EnergySoft | Page 14 of |

| Control Ventilation For VAV & CAV Value Control Co | CERTIFICATE OF COMP | PLIAN | ICE and | FIELD IN | ISPECTI | ON ENE | RGY CH | HECKLIS | ST (F | Part 3 of 4 |) M | ECH-1C |
|--|---|---|---|---|--|---|--|--|--|--|---|--|
| Designer: This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the apploace by all acceptance tests that apply and listed all equipment of a certain type requires a test, list the equipment description because by all acceptance tests that apply and listed all equipment of a certain type requires a test, list the equipment description than the horse of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this form wip and of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. **Building Departments** **Building Operatments** **Building Departments** **Building Department | | | | | | | - | | | | | 2/2012 |
| This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the apploads boxes by all acceptance tests that apply and isted all equipment that requires a next. If all equipment do a certain type requires a test. If sit the equipment description the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this form will part of the plans, completion of this section will allow the responsible part to budget for the scope of work appropriately. **Building Departments:** Systems Acceptance: Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operations. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operations. Before occupance permit is granted. In newly installed HVAC equipment must be tested using the Acceptance Requirements. The MECH-1C form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring the person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following expectifications, installation, certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title-24 Part 6. The building inspector must receive properly filled out and signed forms before the building can receive final occupancy. TEST DESCRIPTION MECH-2A MECH-3A MECH-3 | | | | | | | | | activismo de la completa de la comp | | | |
| Systems Acceptance: Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operanomal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. Systems Acceptance: Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements. The MECH-1C form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring the permit is granted to the specific property of the control | This form is to be used by the designer boxes by all acceptance tests that apply the number of systems. The NA numbe | and lister designa | ed all equipmer ates the Sectior | nt that require n in the Appen | s an acceptar idix of the Nor | nce test. If all e nresidential Re | equipment of eference App | a certain typ cendices Mai | e requires a | test, list the ed | quipment des | cription and |
| TEST DESCRIPTION | Systems Acceptance: Before occupant normal use, all control devices serving to Systems Acceptance: Before occupant The MECH-1C form is not considered a person performing the test (Example: Hecked-off forms are required for ALL specifications, installation, certificates, a | he buildi icy perm complet VAC inst newly instand opera | ng or space shit is granted. All ed form and is aller, TAB cont stalled equipment ating and maint | all be certified I newly installed not to be acceractor, controlled in additionance information | I as meeting the d HVAC equipped by the black contractor, in a Certificate nation meet the | he Acceptance ipment must be building depart PE in charge of Acceptance | e Requirement tested using the tested using the tested using the tested using the tested to the tested using | ints for Code ng the Accep the correct b nd what Accel be submitte | Compliance trance Requirements on the control of th | rements. ecked. The eq nust be condu ling departmer | uipment requ cted. The fol nt that certifie | iiring testing, lowing s plans, |
| Control Ventilation For Ventilation Provided and Supply Valve Valve Ventilation Provided Supply Valve | | ore the b | | | | MECH-5A | MECH-6A | MECH-7A | MECH-8A | MECH-9A | MECH-10A | MECH-11A |
| | | Otv | Outdoor Ventilation For | Constant Volume & Single-Zone | Air Distribution | Economizer | Demand Control Ventilation | Supply Fan | Valve Leakage | Supply Water Temp. | Hydronic System Variable Flow | Automatic Demand Shed Control |
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| | NICAL MANDATORY MEASURES: NONRESIDENTIAL | MECH-MM |
|--------------|---|--|
| Project Name | Elementary School | Date 3/22/2012 |
| | nt and System Efficiencies | 3/22/2012 |
| §111: | Any appliance for which there is a California standard established in the Appliance Efficiency Rewith the applicable standard. | egulations will comply |
| §115(a): | Fan type central furnaces shall not have a pilot light. | |
| §123: | Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or equipment, shall be insulated in accordance with Standards Section 123. | or within HVAC |
| §124: | Air handling duct systems shall be installed and insulated in compliance with Sections 601, 602 the CMC Standards. | , 603, 604, and 605 of |
| Controls | | |
| §122(e): | Each space conditioning system shall be installed with one of the following: | |
| 1A. | Each space conditioning system serving building types such as offices and manufacturing facilities explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic accessible manual override that allows operation of the system during off-hours for up to 4 hour shall be capable of programming different schedules for weekdays and weekends and have procapabilities that prevent the loss of the device's program and time setting for at least 10 hours if | time switch with an rs. The time switch ogram backup |
| 1B. | An occupancy sensor to control the operating period of the system; or | |
| 1C, | A 4-hour timer that can be manually operated to control the operating period of the system. | |
| 2. | Each space conditioning system shall be installed with controls that temporarily restart and tem system as required to maintain a setback heating and/or a setup cooling thermostat setpoint. | |
| §122(g): | Each space conditioning system serving multiple zones with a combined conditioned floor area square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square with isolation devices, such as valves or dampers that allow the supply of heating or cooling to lindependently of other isolation areas; and shall be controlled by a time control device as described. | feet; shall be provided be setback or shut off |
| §122(c): | Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint sto authorized personnel. | |
| §122(b): | Heat pumps shall be installed with controls to prevent electric resistance supplementary heater heating load can be met by the heat pump alone | |
| §122(a&b): | Each space conditioning system shall be controlled by an individual thermostat that responds to zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or locontrol shall be adjustable up to 85 degrees F or higher. Where used for both heating and cool capable of providing a deadband of at least 5 degrees F within which the supply of heating and reduced to a minimum. | ower. For cooling, the ing, the control shall be |
| Ventilatio | n | |
| §121(e): | Controls shall be provided to allow outside air dampers or devices to be operated at the ventilat on these plans. | ion rates as specified |
| §122(f): | All gravity ventilating systems shall be provided with automatic or readily accessible manually o openings to the outside, except for combustion air openings. | ** #* *** *** *** *** *** *** *** *** * |
| §121(f): | Ventilation System Acceptance. Before an occupancy permit is granted for a newly constructed new ventilating system serving a building or space is operated for normal use, all ventilation sysbuilding or space shall be certified as meeting the Acceptance Requirements for Code Complia | stems serving the |
| Service V | Vater Heating Systems | 1100 |
| §113(c) | Installation | |
| 3. | Temperature controls for public lavatories. The controls shall limit the outlet Temperature to 11 | 0°F. |
| 2. | Circulating service water-heating systems shall have a control capable of automatically turning when hot water is not required. | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | | |

| CERTIFICATE OF COM | IPLIAN | ICE and F | IELD INSP | ECTION E | NERGY CH | ECKLIST | (Part 4 of 4) | MECH-10 |
|--|---------------|---|---|---|--|---|---|--|
| roject Name | | | | | | | | Date |
| t. Vernon Elementary School TEST DESCRIPTION | | MEQUATOR | NEOTE 264 | L AFFERT COS | MEOU SEA | | | 3/22/2012 |
| Equipment Requiring Testing | Qty. | MECH-12A Fault Detection & Diagnostics for DX Units | MECH-13A Automatic Fault Detection & Diagnostics for Air & Zone | MECH-14A Distributed Energy Storage DX AC Systems | MECH-15A Thermal Energy Storage (TES) Systems | | Test Performed By: | |
| tsubishi Electric MSZ-GE09NA | 1 | | | | | | | |
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| nergyPro 5.1 by EnergySoft U | ser Number: | 20441 | - F | RunCode: 2012-03- | 22T10:07:42 | ID: 3990 | | Page 10 of 1 |

| Project Name | | | | | Date |
|---|-------------------------|----------------------------|--------------|-------------|----------------------------------|
| Mt. Vernon Elementary School Project Address | | Climate Zone | Total Cond. | Floor Aron | 3/22/2012 Addition Floor Area |
| 2161 Potomac Ave. Bakersfield | | 13 | 13 | | 136 |
| GENERAL INFORMATION | | | | | |
| Building Type: | nresidential | ☐ High-Rise Reside | ntial 🗖 Ho | tel/Motel G | uest Room |
| | locatable Public School | ol Bldg. ☑ Condition | ed Spaces I | Uncond | ditioned Spaces |
| Phase of Construction: | w Construction | ☑ Addition | ☐ Alt | eration | |
| Approach of Compliance: ☐ Co | mponent | Overall Envelope Energy | TDV 🗖 Un | conditioned | d (file affidavit) |
| Front Orientation: N, E, S, W or in Degre | es: 0 deg | | | | |
| HVAC SYSTEM DETAILS | | | FIELD INSPEC | TION ENE | RGY CHECKLIST |
| | | | Meets Ci | iteria or R | equirements |
| Equipment ² | Inspec | tion Criteria | Pass | Fail - D | escribe Reason ² |
| Item or System Tags (i.e. AC-1, RTU-1, HP-1) | IDU/ODU-1 | | | | П |
| Equipment Type ³ : | Split DX | | | | |
| Number of Systems | 1 | | | | |
| Max Allowed Heating Capacity ¹ | 10,900 Btu/hr | | | | |
| Minimum Heating Efficiency ¹ | 10.00 HSPF | | | | |
| Max Allowed Cooling Capacity ¹ | 9,000 Btu/hr | | | | |
| Cooling Efficiency ¹ | 21.0 SEER / 0.0 E | ER | | | |
| Duct Location/ R-Value | n/a | | | | |
| When duct testing is required, submit MECH-4A & MECH-4-HERS | No | | П | | |
| Economizer | No Economizer | | | | |
| Thermostat | Setback Required | | | | |
| Fan Control | Constant Volume | | | | |
| | | | FIELD INSPEC | TION ENE | RGY CHECKLIST |
| Equipment ² | Inspec | tion Criteria | Pass | Fail - D | escribe Reason ² |
| Item or System Tags (i.e. AC-1, RTU-1, HP-1) | | | | | |
| Equipment Type ³ : | <u></u> | | | | |
| Number of Systems | | | | | · 🗖 |
| Max Allowed Heating Capacity ¹ | | | | | |
| Minimum Heating Efficiency ¹ | | | | | |
| Max Allowed Cooling Capacity ¹ | | | | | 回 |
| Cooling Efficiency ¹ | | | | | |
| Duct Location/ R-Value | | | | | |
| When duct testing is required, submit MECH-4A & MECH-4-HERS | | | | | |
| Economizer | | | | | |
| Thermostat | | | | | |
| Fan Control | | | | | |

EnergyPro 5.1 by EnergySoft User Number: 20441 RunCode: 2012-03-22T10:07:42 ID: 3990

| CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST | (Part 2 of 4) | MECH- |
|---|---------------|--|
| Project Name | | Date |
| Mt. Vernon Elementary School Discrepancies: | | 3/22/20 |
| Discrepancies. | | |
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| | ARCHITECTURE - ENGIN | Phone (559) | sion: Revision Description: |
|--|--|---|---|
| | Sheet Title: TITLE 24 | Project Name & Address: MT. VERNON ELEMENTARY SCHOOL | A H C L L D C I TY SCHOOL DISTRICT |
| | Issue Date: O7/20/12 O7/20/12 O7/17/12 O7/17/ | Designer: | DR: |
| | FILE IDENTIF DIV. OF TH OFFICE OF F | E #: 15- ICATION IE STATE REGULATIO 3-11452 | STAMP ARCHITECT ON SERVICES 21 |
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| | Job No.: | 39 | 90 |
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FIXTURE SCHEDULE (1)

FIXTURE CALLOUT (2-A-100) DENOTES: 2 = CIRCUIT NUMBER; A = FIXTURE TYPE; 100 = FIXTURE WATTAGE (INCLUDING BALLAST WHERE APPLICABLE). ALL 48"
FLUORESCENT LAMPS SHALL BE SUPER T8, WITH A COLOR TEMPERATURE OF 4100K AND A COLOR RENDERING INDEX OF 80 MINIMUM - G.E. OR EQUAL. ALL FILAMENT
LAMPS SHALL BE INSIDE FROSTED, 120V - G.E. OR EQUAL. ALL FLOURESCENT BALLASTS SHALL BE SOLID STATE ELECTRONIC TYPE WITH REDUCED HARMONICS,
ADVANCE "HIGH EFFICIENCY" (.74-.77 BALLAST FACTOR) OR EQUAL. ALL HIGH INTENSITY DISCHARGE BALLASTS SHALL BE HIGH POWER FACTOR, REGULATED TYPE.
REFER TO DIVISION 16 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

| TYPE | WATTAGE | LAMPS | VOLTAGE | MOUNTING | DESCRIPTION | MANUFACTURER | CATALOG # | NOTES |
|------|---------|---------------------|---------|----------|--|--------------|------------------------|-------|
| A | 48 | 2-F032 T8 | 120 | SURFACE | I' X 4' SURFACE MOUNTED FLUORESCENT | METALUX | MCFA-232-AI25-UNV-EB8I | (2) |
| В | 33 | 2-F017 T8 | 120 | SURFACE | I' X 2' SURFACE MOUNTED FLUORESCENT | METALUX | CR-217-A-UNV-EB81 | (2) |
| 5 | 69 | 2-32W 4 PIN CFL | 120 | SURFACE | SURFACE MOUNTED WALL PAK | COOPER | WKP-64-CF-E-W-FL-BZ-EM | (2) |
| X | 5 | PER MFG. RECOMM. | 120 | SURFACE | ILLUMINATED EXIT SIGN WITH EMERGENCY BATTERY BACK UP SYSTEM | COOPER | LPX75D | |

WIL

- (I) PROVIDE SEPARATE SUBMITTAL DOCUMENTATION FOR ALL ELECTRONIC BALLASTS AND FLUORESCENT LAMPS INDICATING COMPLIANCE WITH ALL REQUIREMENTS AS SET FORTH ABOVE.
- (2) PROVIDE INTEGRAL EMERGENCY BATTERY PACKAGE INSTALLED BY THE FIXTURE MANUFACTURER, PROVIDING FULL ILLUMINATION FOR ONE LAMP FOR 90 MINUTES MINIMUM, FOR FIXTURES INDICATED ON DRAWINGS TO BE EMERGENCY EGRESS LIGHTING FIXTURES. CONNECT EMERGENCY BATTERY CHARGER TO UNSWITCHED LIGHTING CIRCUIT CONDUCTORS PER PLANS.
- (3) PROVIDE TWO SCREWDRIVERS FOR EACH STYLE OF TAMPER PROOF SCREWS USED ON NON-DESTRUCT LIGHT FIXTURES.
- (4) FINISH AS DIRECTED BY ARCHITECT.

| - | GHTING MANDATORY MEASURES: NONRESIDENTIAL LTG-MN por Lighting Measures |
|-------------|--|
| | 1(d): Shut-Off Controls |
| | 1. For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut offthe lighting. This automatic controlshall meet the requirements of §119.and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutting off the lighting. |
| | 2. Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a manual, accessible override switch within sight of the lights. The area of override is not to exceed 5000 square feet. |
| | 9(h): Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate shall be certified and installed as directed by the manufacturer. |
| | 1: Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified. |
| Con | 1(a): Individual Room/Area trols: Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor—to—ceiling walls. |
| | 1(b): Uniform for Individual Rooms: All rooms and areas greater than 100 square feet and more than 0.8 watts per square foot of lighting load shall be controlled with bi—level switching for uniform reduction of the lighting within the room. |
| , | 1(c): Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separate switch; or the effective use of daylighting cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on the plans. |
| §13 | 1(a): Display lighting: |
| | Display lighting shall be separately switch on circuits that are 20 amps or less. |
| Out | door Lighting Measures |
| §13 | 0(c)1: |
| 1 | Mandatory lighting power determination for medium base sockets without permanently installed ballasts. |
| §13 | 2(a): |
| | All permanently installed luminaires with rated over 100 watts either have a lamp efficacy of at least 60 lumens per Watt or are controlled motion sensor. |
| § 13 | 2(b): |
| | All luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements. |
| § 13 | 0(c)1: |
| | All permanently installed outdoor lighting meets the control requirements listed. |

2008 Nonresidential Compliance Forms August 2009

Building facades, parking lots, garages, canopies and outdoor sales areas meet the Multi-Level Lighting Requirements

NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT SYMBOL NOTES DESCRIPTION (2-A-100) DENOTES LIGHTING FIXTURE CIRCUIT, FIXTURE TYPE AND FIXTURE WATTAGE DENOTES EXISTING TO REMAIN, NO WORK UNLESS OTHERWISE NOTED R DENOTES EXISTING TO BE REMOVED OR REPLACED PER PLANS O.C. DENOTES SPACING DIMENSION ON CENTER LINE OF DEVICE DENOTES UNDERGROUND INSTALLATION DENOTES WEATHERPROOF CONSTRUCTION A.F.F. | DENOTES ABOVE FINISHED FLOOR F.B.O. DENOTES FURNISHED BY OTHERS U.O.N. DENOTES UNLESS OTHERWISE NOTED ELECTRICAL KEYNOTE: DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET. CIRCUIT HOME RUN: DENOTES PANEL A, CKT. #3, - 3/4"C. MINIMUM, U.O.N. CONDUIT IN ATTIC/WALL: DENOTES 1/2"C - 2 #12 AWG CU THWN + 1 #12 CU GND CONDUIT IN FLOOR/U.G.: DENOTES 1/2"C - 2 #12 AWG CU THWN + 1 #12 CU GND CONDUIT RUN: DENOTES 1/2"C - 3 #12 AWG CU THWN + 1 #12 CU GND -+++- | CONDUIT RUN: DENOTES 3/4"C - 4 #12 AWG CU THWN + 1 #12 CU GND -++++- | CONDUIT RUN: DENOTES 3/4"C - 5 #12 AMG CU THMN + 1 #12 CU GND ++++++ | CONDUIT RUN: DENOTES I"C - 6 #12 AWG CU THWN + I #12 CU GND --- CONDUIT RUN - STUBBED, CAPPED AND LABELED. □ UNDERGROUND SYSTEMS PULL BOX PER PLANS. BATTERY OPERATED EMERGENCY LIGHTING FIXTURE Ø- ILLUMINATED EXIT SIGN MOUNTED ON WALL I ILLUMINATED EXIT SIGN MOUNTED ON CEILING LOW LEVEL ILLUMINATED EXIT SIGN MOUNTED ON WALL PER PLANS O- WALL MOUNTED LIGHTING FIXTURE | WALL MOUNTED NIGHT LIGHTING FIXTURE WALL MOUNTED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK PER PLANS O | CEILING MOUNTED LIGHTING FIXTURE CEILING MOUNTED NIGHT LIGHTING FIXTURE CEILING MOUNTED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK PER PLANS RECESSED DOWNLIGHT FIXTURE RECESSED DOWNLIGHT NIGHT LIGHTING FIXTURE RECESSED DOWNLIGHT FIXTURE WITH EMERGENCY BATTERY PACK PER PLANS RECESSED FLUORESCENT LIGHTING FIXTURE SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE LIGHTING FIXTURE EQUIPPED WITH EMERGENCY BATTERY PACK, PER PLANS SINGLE POLE AC SNAP SWITCH @ +48", U.O.N. SINGLE POLE AC SNAP SWITCH @ +48", U.O.N. LOWERCASE SUBSCRIPT DENOTES CONTROLLING SWITCHLEG OF CIRCUIT. THREE WAY AC SNAP SWITCH @ +48", U.O.N. KEY OPERATED AC LOCK SWITCH @ +48" U.O.N. PHOTO CELL CONTROL MOUNTED ON ROOF TIME SWITCH, FLUSH MOUNTED TELECTRICAL PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL ELECTRICAL PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL FLUSH FLOOR BOX WITH DEVICE(S) INSTALLED PER PLANS, U.O.N. DUPLEX RECEPTACLE IN WALL @ +15", U.O.N. DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE IN WALL @ +15", U.O.N. DUPLEX ISOLATED GROUND RECEPTACLE IN WALL @ +15", U.O.N. QUADRUPLEX RECEPTACLE IN WALL @ +15", U.O.N JUNCTION BOX WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT FUSIBLE DISCONNECT SWITCH FUSIBLE DISCONNECT SWITCH WITH INTEGRAL MAGNETIC STARTER ELECTRIC MOTOR EXHAUST FAN Ø TERMINAL CABINET PER PLANS, FLUSH MOUNTED IN WALL (2) TERMINAL CABINET PER PLANS, SURFACE MOUNTED ON WALL (5),(6),(8) TELEPHONE OUTLET IN WALL @ +15", U.O.N. COMPUTER/DATA OUTLET IN WALL @ +15", U.O.N. (5)(6)(8) ⟨TV | TELEVISION OUTLET IN WALL @ +15" U.O.N. (8) OCCUPANCY SENSOR SYSTEM MOTION SENSOR WALL MOUNTED @ +48" U.O.N. OCCUPANCY SENSOR SYSTEM MOTION SENSOR CEILING MOUNTED U.O.N. OCCUPANCY SENSOR SYSTEM SWITCHPACK MOUNTED IN ATTIC SECURITY SYSTEM MAGNETIC DOOR CONTACT SECURITY SYSTEM KEYPAD NOTES ALL UNDERGROUND SITE CONDUIT SHALL BE MINIMUM 3/4"C. UNLESS NOTED OTHERWISE.

ELECTRICAL SYMBOL SCHEDULE
DIMENSIONS INDICATED ARE MEASURED TO CENTERLINE OF ENCLOSURE, UNLESS OTHERWISE NOTED

- STUB I"C. AND TWO 3/4"C. INTO ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR CEILING U.O.N. REQUIREMENT APPLIES TO EACH SIGNAL SYSTEM TERMINAL CABINET INDICATED FLUSH MOUNTED ON SIGNAL PLAN.
- (3) STUB ONE I-I/4"C., ONE I"C. AND TWO 3/4"C. INTO ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR CEILING U.O.N. REQUIREMENT APPLIES TO EACH POWER AND LIGHTING PANEL INDICATED FLUSH MOUNTED ON POWER PLAN.
- (4) RUN I"C. TO NEAREST WALL, THEN RISE CONCEALED IN WALL AND STUB INTO ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR CEILING, U.O.N. FOR SINGLE SYSTEMS IN INDIVIDUAL FLOOR BOXES. WHERE MULTIPLE SYSTEMS OCCUR WITHIN A COMMON FLOOR BOX, RUN TWO I"C. PER
- (5) 45 BACK BOX WITH SINGLE GANG TRIM AND COVER PLATE.
- 6) RUN I"C. CONCEALED IN WALL TO ACCESSIBLE ATTIC SPACE ABOVE NEAREST T-BAR CEILING FOR FUTURE SYSTEMS CABLING BY OTHERS, U.O.N.
- 7) REFER TO E5.01 FOR FIRE ALARM DEVICE SCHEDULE.
- CONTROL SWITCH AND OUTLET HEIGHTS SHALL BE NO MORE THAN +48" TO TOP OF OUTLET BOX NOR LESS THAN +15" TO THE BOTTOM OF OUTLET BOX AS MEASURED FROM FINISH FLOOR OR WORKING PLATFORM PER CBC SECTION IIITB.6(5).

GENERAL NOTES

- A IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO COVER ALL MATERIAL AND LABOR REQUIRED TO PROVIDE COMPLETE AND OPERATING SYSTEMS. THE CONTRACTOR SHALL FURNISH LABOR, MATERIAL, EQUIPMENT AND MISCELLANEOUS SERVICES, ETC. AS REQUIRED TO ACCOMPLISH THIS INTENT. ANYTHING WHICH MAY REASONABLY BE CONSTRUED AS A NECESSARY PART OF THE INSTALLATION SHALL BE INCLUDED, WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED HEREIN. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND ALL DRAWINGS OF RELATED TRADES PRIOR TO BID AND ALLOW FOR ALL WORK THAT IS NECESSARY FOR A COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS.
- B ALL EXISTING ELECTRICAL INFORMATION, POWER AND SIGNALS, SHOWN HEREIN HAS BEEN COMPILED FROM PREVIOUS STATE APPROVED CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED BY THE OWNER'S FACILITIES PERSONNEL. IT HAS NOT BEEN PHYSICALLY FIELD VERIFIED BY THIS OFFICE. USE AND APPLICATION OF THIS INFORMATION SHALL BE CONFINED TO THE PROJECT FOR WHICH IT IS INTENDED.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHTING FIXTURES. THE CONTRACTOR SHALL VERIFY THAT ALL LIGHTING FIXTURES, CEILING TRIMS AND FRAMES ARE COMPATIBLE WITH THE CEILING SYSTEM THEY ARE INTENDED TO BE INSTALLED TO.
- D ALL LIGHTING CIRCUITS SHALL BE HOME RUN VIA LIGHTING CONTROL PANEL FOR WHOLE BUILDING SHUT OFF PER CALIFORNIA ENERGY COMMISSION TITLE 24 ENERGY EFFICIENCY STANDARDS REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING MECHANICAL DRAWINGS, DETAILS AND SPECIFICATIONS AND FOR PROVIDING ALL POWER WIRING AND CONNECTIONS AS SHOWN ON THE MECHANICAL DRAWINGS, BUT NOT NECESSARILY AS SHOWN ON THE ELECTRICAL DRAWINGS. VERIFY EXACT LOCATION OF ALL SUCH EQUIPMENT PRIOR TO INSTALLATION OF SERVING CONDUIT. REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL, HVAC AND PLUMBING EQUIPMENT.
- F ALL LINE AND LOW VOLTAGE CONDUIT AND WIRING FOR MECHANICAL AND PLUMBING EQUIPMENT CONTROLS IS TO BE PROVIDED AND INSTALLED BY THE DIVISION IS CONTROLS CONTRACTOR.
- G VERIFY EXACT LOCATION OF ALL FLOOR BOXES AND RESPECTIVE UNDERGROUND TRENCHING AND BACKFILLING FOR EACH WITH ARCHITECT PRIOR TO THE BEGINNING OF ANY ROUGH-IN WORK FOR THIS EQUIPMENT.
- H COORDINATE ELECTRICAL PANEL AND TERMINAL CABINET LOCATIONS AND ROUTING OF UNDERGROUND CONDUITS WITH FRAMING CONTRACTOR PRIOR TO BEGINNING ANY ROUGH-IN WORK FOR THIS EQUIPMENT.
- (J) CONTRACTOR SHALL COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES WHOSE WORK IMPACTS PLACEMENT OR CONNECTION OF ELECTRICALLY POWERED EQUIPMENT REGARDLESS OF CONTRACTOR PROVIDING SUCH EQUIPMENT.
- FOR ALL ELECTRICAL EQUIPMENT BEING REMOVED, PROVIDE OWNER WITH THE FIRST RIGHT OF REFUSAL. IF OWNER EXERCISES FIRST RIGHT, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ELECTRICAL EQUIPMENT COMPLETE IN A PROPER MANNER.
- AT ANY WALL RECEIVING A NEW TACKBOARD OR GYPSUM BOARD SURFACE, THE CONTRACTOR
 SHALL PROVIDE THE APPROPRIATE BOX EXTENSION(S) FOR ALL FLUSH MOUNTED ELECTRICAL
 DEVICES AND EQUIPMENT. AT WALLS RECEIVING A NEW TACKBOARD, GYPSUM BOARD OR VINYL
 SURFACE, THE CONTRACTOR SHALL REMOVE AND REINSTALL ANY SURFACE MOUNTED
 ELECTRICAL DEVICES AND EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR WALL
 TREATMENT.
- M REMOVE ALL ELECTRICAL DEVICES IN OR ON ANY WALL BEING REMOVED. REROUTE AND RECONNECT ANY FEED THROUGH CIRCUITS AS REQUIRED, PULL OUT ANY IDLE WIRING, AND REMOVE ANY EMPTY, EXPOSED CONDUIT.
- N WHEN AN ELECTRICAL DEVICE IS REMOVED FROM A WALL THAT IS TO REMAIN, PULL OUT ANY IDLE WIRING, RECONNECT ANY FEED THROUGH CIRCUITS AS REQUIRED AND PROVIDE AN APPROPRIATE BLANK COVERPLATE. WHERE SUCH DEVICE OCCURRED IN A FIRE RATED ASSEMBLY, FIRE STOP OPENING PER C.E.C. 300.21.
- P WHEN AN EXISTING RECEPTACLE IS SHOWN TO REMAIN, PROVIDE A NEW DEVICE AND
- WHEN NEW CEILINGS OR CEILING FINISHES ARE PROVIDED, RELOCATE AND RECONNECT ALL ELECTRICAL DEVICES IN OR ON THE OLD CEILING OR CEILING FINISH TO THE NEW CEILING OR CEILING FINISH AS REQUIRED. ANY DEVICE LOCATED ON THE WALL BELOW THE OLD CEILING SHALL BE RELOCATED TO BELOW THE NEW CEILING, MAINTAINING SIMILAR CEILING CLEARANCE, AND RECONNECTED.
- R ALL CONDUIT THAT CROSS FOOTINGS SHALL RUN PERPENDICULAR TO THE LINE OF THE FOOTING. MULTIPLE CONDUITS CROSSING OVER THE TOPS OF THE FOOTINGS SHALL NOT BE LOCATED BELOW SHEER WALLS, BEARING WALLS, POSTS, OR COLUMMS. SEE STRUCTURAL DETAILS FOR CONDUITS PENETRATING THROUGH OR BELOW THE FOOTINGS.

| | ELECTRICAL DRAWING INDEX |
|--------------|--|
| SHEET NUMBER | SHEET TITLE |
| El.00 | CODES, SYMBOLS, NOTES AND INDEX |
| El.Ol | SITE ELECTRICAL PLAN |
| E2.01 | ELECTRICAL DEMOLITION AND POWER PLANS |
| E3.0I | LIGHTING AND FIRE ALARM PLANS |
| E4.01 | SINGLE LINE DIAGRAM AND DETAILS |
| E5.0I | FIRE ALARM SINGLE LINE DIAGRAM AND DETAILS |
| E6.01 | TITLE 24 COMPLIANCE DOCUMENTATION |

APPLICABLE CODES AND STANDARDS

| APPLICABL | E CODES AS OF JANUARY I, 2011: |
|------------|--|
| 2010 | CALIFORNIA ADMINISTRATIVE CODE, PART I, TITLE 24 C.C.R. |
| 2010 | CALIFORNIA BUILDING CODE, PART 2, TITLE 24 C.C.R. (2009 INTERNATIONAL BUILDING CODE VOLUMES I-2 OF THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS, WITH CALIFORNIA AMENDMENTS) |
| 2010 | CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 C.C.R. 2008 NATIONAL ELECTRICAL CODE (NEC) |
| 2010 | CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 C.C.R. 2009 UNIFORM MECHANICAL CODE (UMC) |
| 2010 | CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R. 2009 UNIFORM PLUMBING CODE (UPC) |
| 2010 | CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R. |
| 2010 | CALIFORNIA ELEVATOR SAFETY CODE OF REGULATIONS, TITLE 8, C.C.R. |
| 2010 | CALIFORNIA HISTORICAL BUILDING CODE, PART 8, TITLE 24 C.C.R. |
| 2010 | CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. 2009 INTERNATIONAL FIRE CODE (IFC) |
| 2010 | CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R. 2009 INTERNATIONAL EXISTING BUILDING CODE (IEBC) |
| 2010 | TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS |
| 2010 | CALIFORNIA REFERENCE STANDARDS CODE, PART 12, TITLE 24 C.C.R. |
| PARTIAL LI | ST OF APPLICABLE STANDARDS: REFERENCE CBC CHAPTER 35 |
| 2010 | NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS |
| 2010 | NFPA 13, STANDPIPE SYSTEMS |
| 2002 | NFPA 17, STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS |
| 2002 | NFPA 17A, STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS |
| 2010 | NFPA 20, STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION |
| 2010 | NFPA 24, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES |

C.E.C. TITLE 24 COMPLIANCE

NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE

NFPA 2001, STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

(WITH CALIFORNIA AMENDMENTS)

THE CURRENT CALIFORNIA ENERGY COMMISSION ENERGY EFFICIENCY STANDARDS FOR RESIDENTIAL AND NONRESIDENTIAL BUILDINGS HAVE BEEN REVIEWED. THE BUILDING LIGHTING SYSTEMS DESIGN DEPICTED HEREIN IS IN COMPLIANCE WITH REQUIREMENTS AS SET FORTH.

CODES, RULES & REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, TITLE 24, 2010 CALIFORNIA CODE OF REGULATIONS, 2010 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.

EMERGENCY EGRESS PATHWAY LIGHTING

AN EMERGENCY EGRESS PATHWAY LIGHTING SYSTEM COMPLYING WITH C.B.C. 1006 MEANS OF EGRESS ILLUMINATION" SHALL BE INSTALLED PER PLANS AND SPECIFICATIONS. EGRESS PATHWAY LIGHTING LEVELS AS DESIGNED COMPLY WITH THE ONE (I) FC MINIMUM ILLUMINATION LEVELS REQUIRED IN C.B.C. 1006.2 THROUGHOUT THE EGRESS PATHWAY. IN ADDITION TO THE NORMAL POWER PROVIDED TO THE EGRESS PATHWAY LIGHTING SYSTEM BY THE PREMISES' ELECTRICAL SUPPLY, THE LIGHTING SYSTEM DESIGN PROVIDES EMERGENCY POWER FOR A DURATION OF 90 MINUTES MINIMUM AT ALL AREAS REQUIRED IN C.B.C. 1006.3 AND COMPLIES WITH ALL PERFORMANCE AND LEVEL REQUIREMENTS OF C.B.C. 1006.4.

CONDUIT SUPPORT NOTE

ALL BRACING OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY D.S.A.. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY D.S.A. SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT AVAILABLE AT THE PROJECT JOBSITE AT ALL TIMES. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, STRUCTURAL ENGINEER AND D.S.A. FIELD REPRESENTATIVE.

SEISMIC ANCHORAGE REQUIREMENTS

ALL ELECTRICAL EQUIPMENT AND CONDUIT SYSTEMS ANCHORAGE SHALL COMPLY WITH CALIFORNIA BUILDING CODE SECTION 1613A AND WITH TABLE 1607A.I.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE FIELD ENGINEER FOR THE DIVISION OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES AND THE ELECTRICAL ENGINEER.

WATERS ENGINEERING, INC.
Consulting Electrical Engineer
P.O. BOX 630
Visalia, California 43274-0630
Telephone (554) 733-4733
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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

OFFICE OF REGULATION SERVICES

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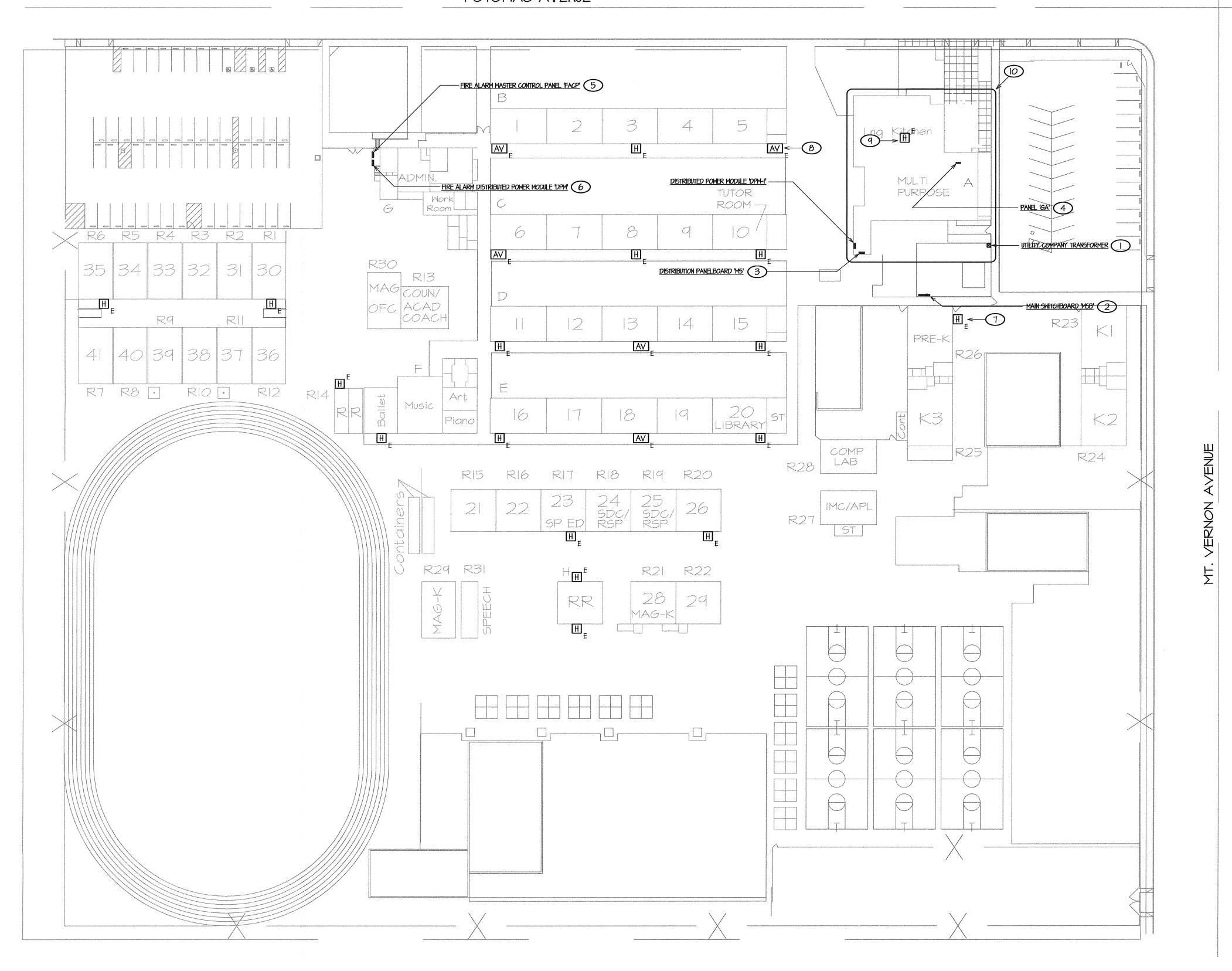
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POTOMAC AVENUE



SITE ELECTRICAL PLAN



SITE ELECTRICAL PLAN NOTES

- EXISTING UTILITY COMPANY TRANSFORMER SERVING CAMPUS TO REMAIN, NO WORK
- 2 EXISTING MAIN SWITCHBOARD TO REMAIN. SWITCHBOARD IS 480Y/2TTV, 3PH 4W, I200A NOT INVOLVED IN THIS SCOPE OF THIS WORK, SHOWN FOR CLARITY ONLY.
- 3 EXISTING DISTRIBUTION PANELBOARD TO REMAIN. PANELBOARD IS 208Y/120V, 3PH 4W, 600A AND HAS CAPACITY FOR THE ADDITIONAL LOAD REQUIRED BY THIS SCOPE OF WORK. REFER SINGLE LINE DIAGRAM, I/E4.01 FOR WORK REQUIRED AND COORDINATION/REFERENCE.
- 4 EXISTING BUILDING POWER PANEL TO REMAIN AND BE USED FOR THIS SCOPE OF WORK. PANEL IS 208Y/120V, 3PH 4W, 100A AND HAS CAPACITY FOR THE ADDITIONAL LOAD REQUIRED BY THIS SCOPE OF WORK. REFER TO SINGLE LINE DIAGRAM, I/E4.01 AND PANEL SCHEDULE, SHEET E4.01 FOR COORDINATION/REFERENCE.
- 5 EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. PANEL IS A FIRENET 4127 AS MANUFACTURED BY HOCHIKI, C.S.F.M. # 7165-0410:0159, INSTALLED UNDER EMERGENCY CIRCUMSTANCES IN 2010 WITH PROTECTION MONITORING PER N.F.P.A. 72, CHAPTER 10, SECTION 10.15 REQUIREMENTS. REFER TO FIRE ALARM SINGLE LINE DIAGRAM, I/E5.01 FOR COORDINATION/REFERENCE.
- 6 EXISTING FIRE ALARM DISTRIBUTED POWER MODULE TO REMAIN. DPM IS SK5345 AS MANUFACTURED BY SILENT KNIGHT, C.S.F.M. # 7300-0559:0123, INSTALLED UNDER EMERGENCY CIRCUMSTANCES IN 2010 WITH PROTECTION MONITORING PER N.F.P.A. 72, CHAPTER 10, SECTION 10.15 REQUIREMENTS. NO WORK REQUIRED, SHOWN FOR CLARITY ONLY. REFER TO FIRE ALARM SINGLE LINE DIAGRAM, I/E5.0IFOR COORDINATION/REFERENCE.
- 7 EXISTING, EXTERIOR W.P. AUDIBLE NOTIFICATION APPLIANCES DENOTED WITH SUBSCRIPT 'E' TO REMAIN, TYPICAL WHERE OCCURS. SHOWN FOR CLARITY OF EXTERNAL COVERAGE ONLY. NO WORK REQUIRED.
- 8 EXISTING, EXTERIOR W.P. AUDIBLE/VISIBLE NOTIFICATION APPLIANCES DENOTED WITH SUBSCRIPT 'E' TO REMAIN, TYPICAL WHERE OCCURS. SHOWN FOR CLARITY OF EXTERNAL COVERAGE ONLY. NO WORK REQUIRED.
- 9 EXISTING INTERIOR FIRE ALARM DEVICE SHOWN FOR CLARITY, TYPICAL. REFER TO FIRE ALARM PLAN, SHEET E3.01 AND FIRE ALARM SINGLE LINE DIAGRAM, I/E5.01 FOR COORDINATION/REFERENCE.
- REFER TO ELECTRICAL PLANS, SHEETS E2.01 AND E3.01 FOR ADDITIONAL ELECTRICAL WORK REQUIRED IN THIS AREA.

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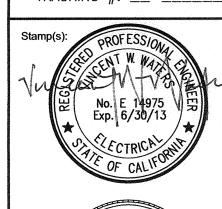
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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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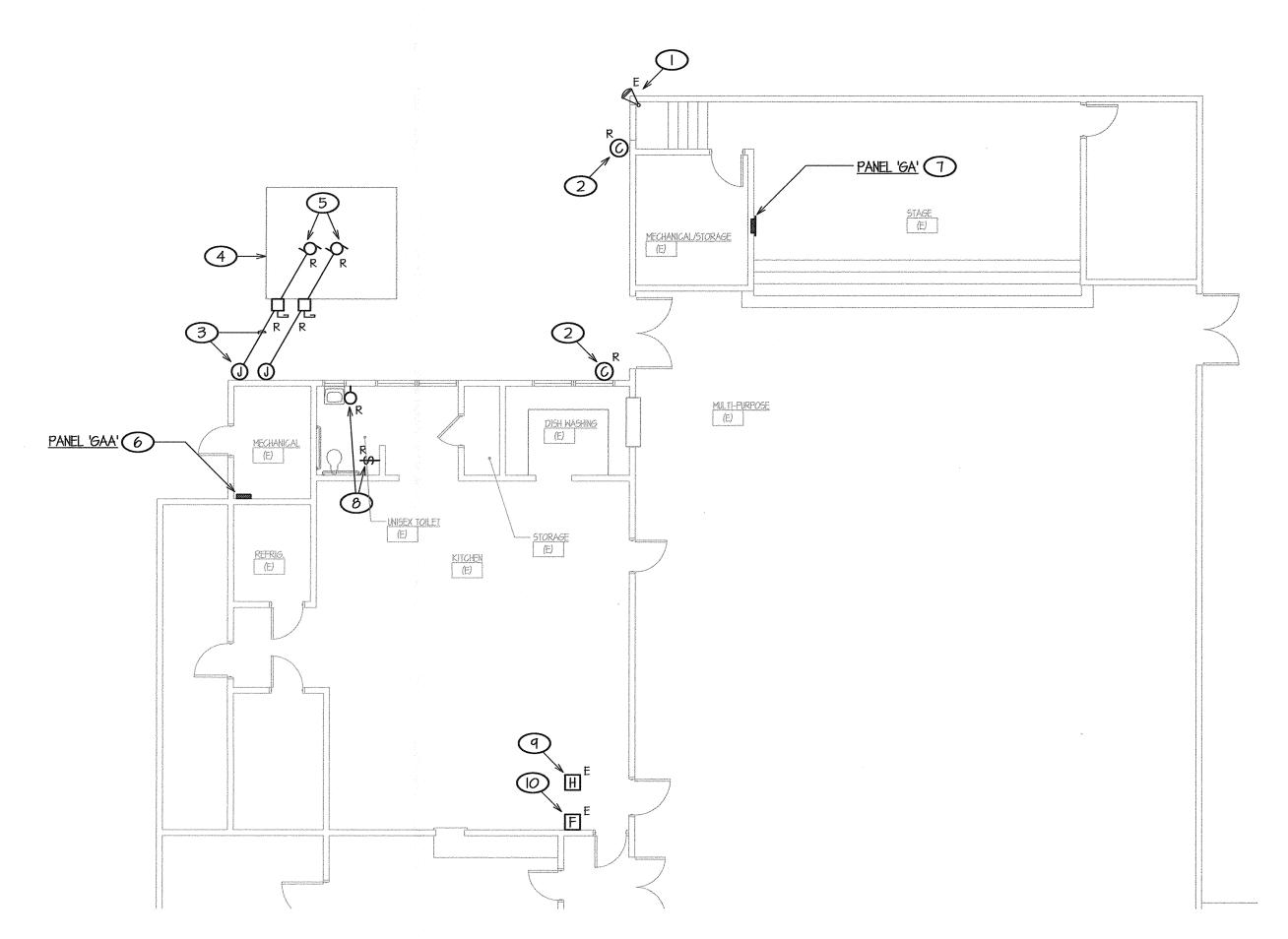




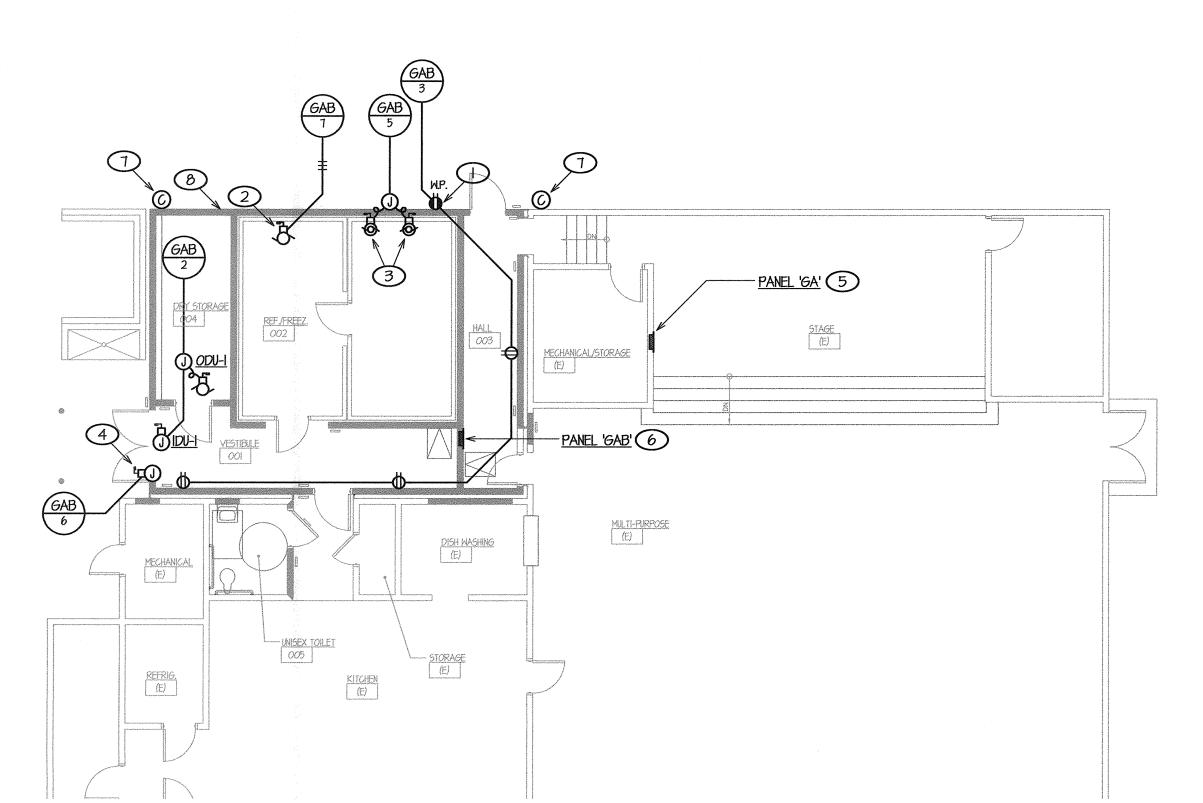
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Visalia, California 93279-0630 Telephone (559) 733-9733 Facsimile (559) 733-9755 E-mail: waterseng@comcast.net E1.01

WATERS ENGINEERING, INC. Consulting Electrical Engineer P.O. BOX 630



ELECTRICAL DEMOLITION PLAN



POWER PLAN

ELECTRICAL DEMOLITION PLAN NOTES

- EXISTING EXTERIOR LIGHTING FIXTURE, ATTACHED WITH AN 'E' SUBSCRIPT, TO REMAIN. EXTEND AND CONNECT EXISTING CIRCUIT CONDUCTORS TO NEW EXTERIOR LIGHTING FIXTURES PER LIGHTING PLAN, SHEET E3.01. CONTRACTOR SHALL FIELD VERIFY ALL.
- 2 EXISTING EXTERIOR SECURITY CAMERA, ATTACHED WITH AN 'R' SUBSCRIPT, TO BE RELOCATED COMPLETE PER POWER PLAN, THIS SHEET. REMOVE ANY EMPTY, EXPOSED JUNCTION BOX(ES) AND CONDUIT COMPLETE. REROUTE, EXTEND AND RECONNECT EXISTING CABLING AS REQUIRED, CONTRACTOR SHALL FIELD VERIFY ALL.
- 3 EXISTING JUNCTION BOXES AND SURFACE MOUNTED FEEDER CURRENTLY SERVING EXISTING REFRIGERATION UNIT BEING REMOVED TO BE REMOVED COMPLETE, TYPICAL OF TWO. REMOVAL OF REFRIGERATION UNIT BY OTHERS. REFER TO ITEM 4 BELOW FOR COORDINATION/REFERENCE.
- 4 EXISTING REFRIGERATION UNIT TO BE REMOVED COMPLETE. DE-ENERGIZE EXISTING CIRCUIT BREAKER(S) SERVING UNIT MECHANICAL EQUIPMENT, PULL OUT WIRING MADE IDLE BY EQUIPMENT REMOVAL COMPLETE TO SERVING PANEL 'GAA' AND REMOVE ALL EMPTY, EXPOSED JUNCTION BOX(ES) AND CONDUIT COMPLETE.
- 5 DISCONNECT ELECTRICAL SERVICE COMPLETE FROM EXISTING ROOF MOUNTED REFRIGERATION COMPRESSOR EQUIPMENT AND ALL ASSOCIATED MECHANICAL DISTRIBUTION EQUIPMENT BEING REMOVED (MECHANICAL EQUIPMENT, DISCONNECT AND/OR CONTROL DEVICE(S), ETC. REMOVAL BY OTHERS). PULL OUT WIRING MADE IDLE BY EQUIPMENT REMOVAL COMPLETE TO SERVING PANEL AND REMOVE ANY EMPTY, EXPOSED JUNCTION BOX(ES) AND CONDUIT COMPLETE. NOTE: EVERY DEVICE REQUIRING REMOVAL MAY NOT BE SHOWN ON THIS DRAWING, CONTRACTOR SHALL FIELD VERIFY ALL.
- (6) EXISTING PANEL TO REMAIN, NO WORK REQUIRED. SHOWN FOR CLARITY ONLY.
- (7) EXISTING PANEL TO BE REMAIN. PROVIDE NEW SUB-FEED CIRCUIT BREAKER PER PLANS FOR NEW ELECTRICAL PANEL SERVING KITCHEN ADDITION. REFER TO GENERAL NOTES, SHEET EI.OO, POWER PLAN, THIS SHEET, SINGLE LINE DIAGRAM, I/E4.OI AND PANEL SCHEDULES, SHEET E4.01 FOR COORDINATION/REFERENCE.
- 8 REMOVE EXISTING WALL MOUNTED INCANDESCENT LIGHT FIXTURE AND ASSOCIATED SWITCH AND PROVIDE NEW PER LIGHTING PLAN, SHEET E3.01.
- 9 EXISTING AUDIBLE NOTIFICATION DEVICE TO REMAIN AND BE RECONNECTED PER FIRE ALARM PLAN, SHEET E3.01. REFER TO FIRE ALARM SINGLE LINE DIAGRAM, I/E5.01 FOR COORDINATION/REFERENCE.
- DESISTING MANUAL PULL STATION TO REMAIN, NO WORK REQUIRED.

POWER PLAN NOTES

- G.F.I. RECEPTACLE WITH W.P., COVER PLATE, PASS AND SEYMOUR #WIUFCIOS OR APPROVED EQUAL. TYPICAL FOR ALL EXTERIOR RECEPTACLES.
- (2) CONNECT ROOF MOUNTED REFRIGERATOR/FREEZER CONDENSING UNIT POWER PER MANUFACTURER'S WRITTEN INSTRUCTIONS. COORDINATE THIS WORK WITH EQUIPMENT SUPPLIER PRIOR TO COMMENCING ROUGH-IN.
- (3) CONNECT ROOF MOUNTED COOLING FAN POWER PER MANUFACTURER'S WRITTEN INSTRUCTIONS. COORDINATE THIS WORK WITH EQUIPMENT SUPPLIER PRIOR TO COMMENCING
- 4) CONNECT FLY FAN POWER VIA INTERLOCK SWITCH. INTERLOCK SWITCH PROVIDED AND INSTALLED BY DIVISION 15. REFER TO MECHANICAL DRAWINGS FOR COORDINATION/REFERENCE.
- 5 EXISTING PANEL TO REMAIN. REFER TO SINGLE LINE DIAGRAM, I/E4.0I FOR COORDINATION/REFERENCE.
- 6 PROVIDE 208Y/120V, 3PH, 4W POWER AND LIGHTING PANEL PER SPECIFICATIONS, INSTALL PER 2/E4.01 AND CONNECT PER SINGLE LINE DIAGRAM, I/E4.01. REFER TO PANEL SCHEDULES, SHEET E4.01 FOR COORDINATION/REFERENCE.
- 1 NEW LOCATION FOR EXISTING SECURITY CAMERA. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH OWNER'S INTRUSION ALARM VENDOR. CONTRACTOR SHALL
- 8 INFILL DENOTES I-HOUR FIRE RATED WALL ASSEMBLY. WHERE OUTLETS OR CONDUITS PENETRATE FIRE RATED ASSEMBLIES, INSTALLATION SHALL PROVIDE REQUIRED 24" MINIMUM SEPARATION FOR OUTLETS PER 3/E.501, AND SEAL PENETRATIONS PER 4/E.5.01.



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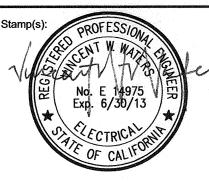
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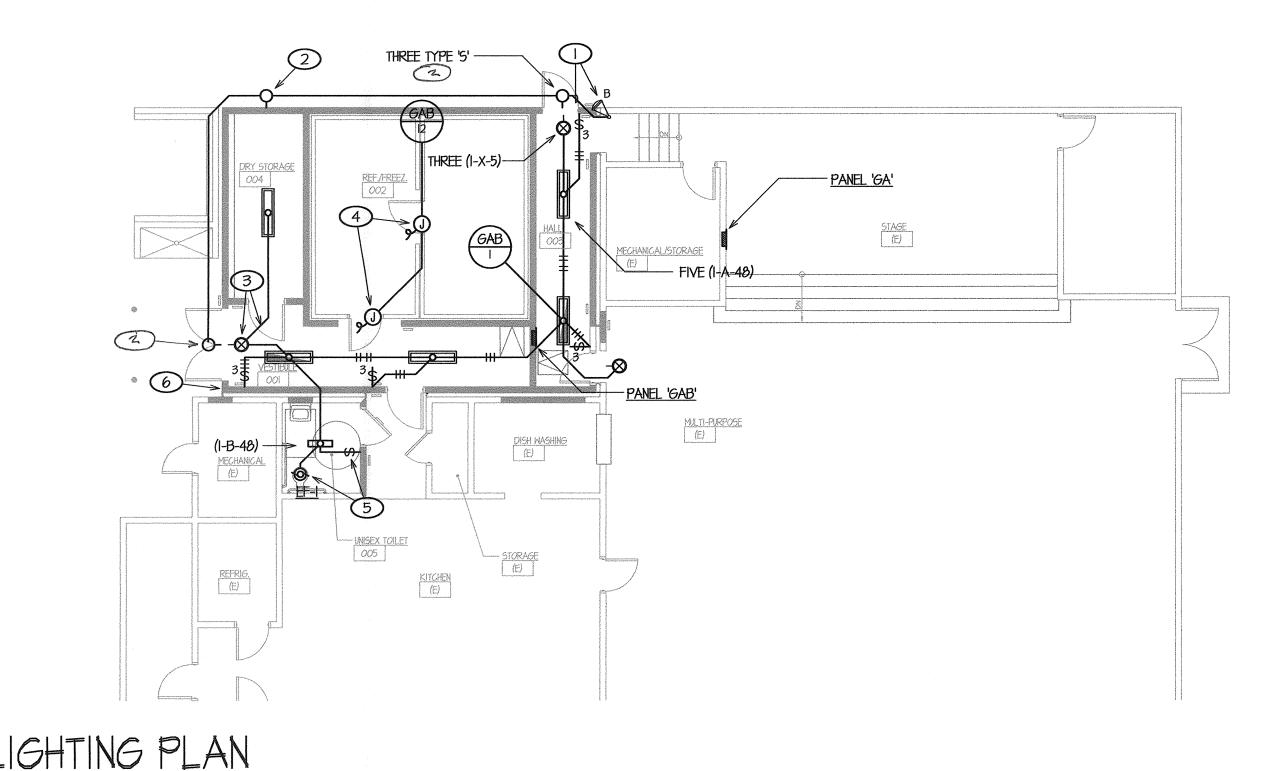




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Sheet No.: E2.01

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



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

FIRE ALARM SYSTEM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE, SECTION 907.2.3; CALIFORNIA ELECTRICAL CODE, ARTICLE 160 AND CALIFORNIA FIRE CODE, CHAPTERS 9 AND 14.

INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT COMMENCE UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT - OFFICE OF REGULATION SERVICES.

DURING INSTALLATION OF THE FIRE ALARM SYSTEM, CONSTRUCTION PERSONNEL SHALL FOLLOW THE FIRE SAFETY REQUIREMENTS OF CALIFORNIA FIRE CODE CHAPTER 14 IN ORDER TO PROVIDE REASONABLE SAFETY TO LIFE AND PROPERTY DURING CONSTRUCTION, ALTERATION AND DEMOLITION

THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED COMPLYING WITH NFPA 72, CHAPTER 18, SECTION 18.5 VISUAL CHARACTERISTIC REQUIREMENTS. FLASHING VISUAL NOTIFICATION APPLIANCES SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (I HZ).

THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING ALL OCCUPANTS COMPLYING WITH NFPA 72 CHAPTER 18, SECTION 18.4 AUDIBLE CHARACTERISTIC REQUIREMENTS. ALL NORMALLY OCCUPIED AREAS SHALL BE PROVIDED WITH AUDIBLE NOTIFICATION APPLIANCES SUFFICIENT TO GENERATE AUDIBLE DECIBEL LEVELS OF AT LEAST 15 dBa ABOVE AMBIENT NOISE LEVELS. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET REQUIRED MINIMUM SOUND LEVELS, ADDITIONAL AUDIBLE NOTIFICATION APPLIANCES MAY BE REQUIRED TO BE INSTALLED BY THE ENFORCING AGENCY

FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 12. THE SUPERVISING STATION SHALL BE LISTED AS EITHER A WEX (CENTRAL STATION) OR WUS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF FM 3011.

PER CALIFORNIA FIRE CODE.

DISTRIBUTION PANEL 'MS'

FIRE ALARM DISTRIBUTED POWER MODUEL 'DPM-1' (2)

BOILER (E)

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY PER NEPA 12, CHAPTER 14 AND THE D.S.A. INSPECTOR OF RECORD. TESTING SHALL INCLUDE VISUAL INSPECTIONS PER TABLE 14.3.1 AND PERFORMED USING METHODS INDICATED IN TABLE 14.4.2.2 AS WELL AS A READ-OUT VERIFICATION FORM FROM THE MONITORING CENTRAL STATION SERVICE.

CONTRACTOR SHALL SUPPLY ALL NECESSARY TESTING EQUIPMENT TO PERFORM THE NFPA 72 TESTING REQUIREMENTS, INCLUDING A SOUND LEVEL METER TO CHECK ACCEPTABLE SOUND LEVELS OF ALL AUDIBLE DEVICES.

CONTRACTOR SHALL PROVIDE A FULL RECORD OF COMPLETION AND COMPLIANCE PER NEPA 12, CHAPTER 10, SECTION 10.18.2 AND THE CALIFORNIA FIRE CODE, SECTION 901 TO THE OWNER.

FIRE ALARM PLAN NOTES

- EXISTING DISTRIBUTION PANEL BOARD TO REMAIN. PROVIDE NEW CIRCUIT BREAKER FOR NEW FIRE ALARM CONTROL PANEL PER ITEM 2 , BELOW. REFER TO SITE ELECTRICAL PLAN, SHEET EI.OI AND FIRE ALARM SINGLE LINE DIAGRAM, SHEET E5.0I FOR
- (2) PROVIDE NEW FIRE ALARM DISTRIBUTED POWER MODULE PER SPECIFICATIONS AND INSTALL PER 4/E4.01. PROVIDE NEW 20/1 CIRCUIT BREAKER PER SPECIFICATIONS AND INSTALL TO ADJACENT DISTRIBUTION PANEL IN THIS ROOM, MATCHING EXISTING EQUIPMENT MANUFACTURER AND I.C. RATING, CONTRACTOR SHALL FIELD VERIFY ALL. RUN 1/2"C. 2 #12 CU THWN + I #12 CU GROUND TO DISTRIBUTION PANEL AND CONNECT TO 20/1 CIRCUIT BREAKER. PROVIDE RED COLOR CIRCUIT BREAKER HANDLE AND DISCONNECT LOCATION LABELING PROVIDE DISCONNECT LOCATION LABELING PER N.F.P.A. 72, 10.5.5.2. ADDITIONALLY, CONTRACTOR SHALL PROVIDE AND INSTALL A LISTED LOCK OUT DEVICE COMPATIBLE WITH THE CIRCUIT BREAKER FOR ADDED PROTECTION. EXTEND 1/2"C. 2 #12 CU THWN (NOTIFICATION) FROM 'DPM-1' TO WALL MOUNTED FIRE ALARM PULL BOX, ITEM (3) BELOW AND EXTEND NEW FIRE ALARM CIRCUITING AS SHOWN. REFER TO FIRE ALARM SINGLE LINE DIAGRAM, SHEET E5.01 FOR COORDINATION/REFERENCE.
- CONDUCTORS ENTER BUILDING. EXTEND NEW FIRE ALARM CONDUCTORS PER PLAN TO EXISTING DEVICES AS SHOWN.
- (4) EXISTING I"C. FROM EXISTING FIRE ALARM MASTER CONTROL PANEL "FACP" AND FIRE ALARM DISTRIBUTED POWER MODULE 'DPM' TO REMAIN. PULL OUT EXISTING NOTIFICATION CIRCUIT WIRING FROM 'DPM' AND INITIATION CIRCUIT WIRING FROM 'FACP' COMPLETE AND REPLACE WITH NEW 2 #12 CU THWN (NOTIFICATION) AND ONE 'F' CABLE (INITIATION) RESPECTIVELY.
- (5) EXISTING FIRE ALARM NOTIFICATION APPLIANCE SHOWN FOR CLARITY. REPLACE EXISTING FIRE ALARM CIRCUIT WIRING IN EXISTING CONDUIT WITH 2 #12 CU THWN (NOTIFICATION) AND ONE 'F' CABLE (INITIATION) TO FIRE ALARM PULL BOX, ITEM (3), ABOVE AND EXTEND CIRCUIT TO NEW NOTIFICATION APPLIANCES AS SHOWN.
- IN EXISTING CONDUIT BETWEEN THIS DEVICE AND NOTIFICATION APPLIANCE ITEM (5), ABOVE, WITH ONE 'F' CABLE (INITIATION), INSTALL FIRE ALARM INTERFACE MODULE AND RECONNECT PULL STATION TO NEW INITIATION CIRCUIT CONDUCTORS AS REQUIRED.
- 7 PROVIDE FIRE ALARM SMOKE DETECTORS PER SPECIFICATIONS, INSTALL PER 2/E5.01 AND
- (8) PROVIDE FIRE ALARM HEAT DETECTORS PER SPECIFICATIONS, INSTALL PER 2/E5.01 AND CONNECT PER FIRE ALARM SINGLE LINE DIAGRAM, I/E5.01, TYPICAL WHERE OCCURS.
- 9 PROVIDE FIRE ALARM VISIBLE NOTIFICATION APPLIANCES PER SPECIFICATIONS, INSTALL PER 2/E5.01 AND CONNECT PER FIRE ALARM SINGLE LINE DIAGRAM, I/E5.01, TYPICAL WHERE
- (10) PROVIDE FIRE ALARM END OF LINE RESISTOR PER SPECIFICATIONS, INSTALL AT THIS LAST NOTIFICATION DEVICE IN THE NOTIFICATION CIRCUIT AND CONNECT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO FIRE ALARM SINGLE LINE DIAGRAM, I/E5.01 FOR COORDINATION/REFERENCE.
- (12) 3/4"C. 4 #12 CU THWN (NOTIFICATION), ONE 'F' CABLE (INITIATION).
- (13) 3/4"C. ONE 'F' CABLE (INITIATION).
- (14) 3/4"C. 2 #12 CU THWN (NOTIFICATION).

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| DE | ΔI | ADM | | ΔN | NOTES |

LIGHTING PLAN NOTES

PICK UP AND EXTEND EXISTING EXTERIOR LIGHTING CIRCUIT SWITCHED AND UNSWITCHED

2) PROVIDE NEW EXTERIOR WALL MOUNTED LIGHTING FIXTURE WITH EMERGENCY BATTERY

3 BUILDING INTERIOR EMERGENCY EGRESS LIGHTS AND/OR ILLUMINATED EXIT SIGNS SHOWN

FIXTURES TO EXISTING CIRCUIT.

SHADED, TYPICAL WHERE SHOWN.

WALK-IN MANUFACTURER'S WRITTEN INSTRUCTIONS.

POWER PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

CONDUCTORS TO NEW TYPE 'S' LIGHTING FIXTURES AS REQUIRED AND CONNECT NEW

PACK PER SPECIFICATIONS AND CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT AS

ARE CONNECTED TO THE UNSWITCHED CIRCUIT CONDUCTOR FOR EMERGENCY BATTERY SYSTEM OPERATION, PER 4/E4.01. EMERGENCY EGRESS LIGHTS ARE SHOWN PARTIALLY

4) CONNECT NEW WALK-IN REFRIGERATOR AND FREEZER 120V LIGHTING AND CONTROLS PER

5 PROVIDE NEW LIGHT SWITCH, FIXTURE AND CONNECT AS SHOWN. CONNECT NEW EXHAUST FAN

PENETRATE FIRE RATED ASSEMBLIES, INSTALLATION SHALL PROVIDE REQUIRED 24" MINIMUM

(6) INFILL DENOTES I-HOUR FIRE RATED WALL ASSEMBLY. WHERE OUTLETS OR CONDUITS

SEPARATION FOR OUTLETS PER 3/E.501, AND SEAL PENETRATIONS PER 4/E.5.01.

- COORDINATION/REFERENCE.
- (3) EXISTING PULL BOX MOUNTED ON WALL THROUGH WHICH EXISTING FIRE ALARM CIRCUIT

- (6) EXISTING FIRE ALARM INITIATION DEVICE SHOWN FOR CLARITY. REPLACE EXISTING WIRING
- CONNECT PER FIRE ALARM SINGLE LINE DIAGRAM, I/E5.01, TYPICAL WHERE OCCURS.

- (11) 3/4"C. 2 #12 CU THWN (NOTIFICATION), ONE 'F' CABLE (INITIATION).
- 15) INFILL DENOTES I-HOUR FIRE RATED WALL ASSEMBLY. WHERE OUTLETS OR CONDUITS PENETRATE FIRE RATED ASSEMBLIES, INSTALLATION SHALL PROVIDE REQUIRED 24" MINIMUM SEPARATION FOR OUTLETS PER 3/E.501, AND SEAL PENETRATIONS PER 4/E.5.01.

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FIRE ALARM PLAN

CONFERENCE (E)

FOOD STORAGE

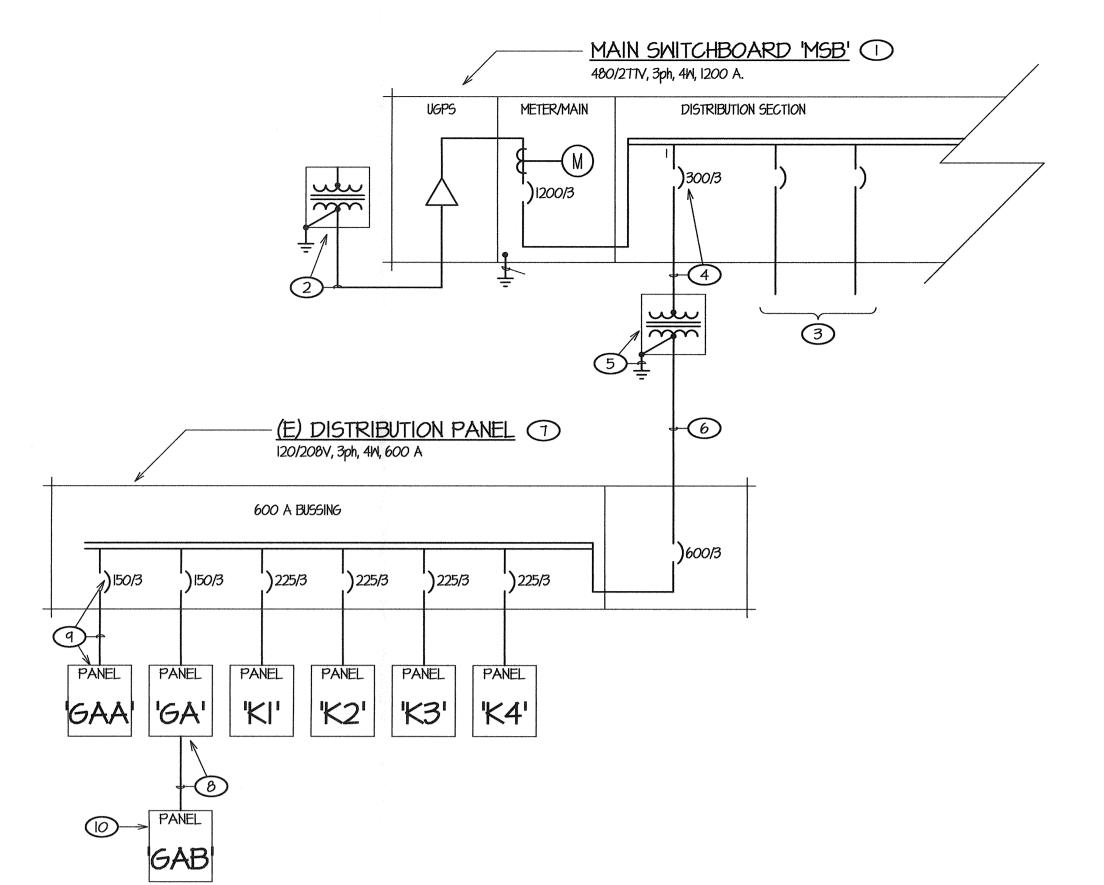
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MULTI-PURPOSE (E) 9

STORAGE (E)

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



SINGLE LINE DIAGRAM

| SINGLE LINE DIAGRAM NOTES |
|--|
| EXISTING MAIN SWITCHBOARD TO REMAIN. SWITCHBOARD IS 480Y2TI, 3PH 4W, I200A WITH SUFFICIENT CAPACITY FOR THE REVISED/ADDITIONAL LOAD REQUIRED BY THE SCOPE OF THIS WORK. REFER TO SITE ELECTRICAL PLAN, SHEET EI.OI FOR COORDINATION/REFERENCE. |
| 2 EXISTING UTILITY COMPANY SERVICE LATERAL AND SWITCHBOARD MAIN CIRCUIT BREAKER TO REMAIN, NO WORK REQUIRED. |
| 3 REPRESENTATIVE SUB-FEED CIRCUIT BREAKERS AND FEEDERS SERVING EXISTING LOADS |

SHOWN FOR CLARITY ONLY, ARE EXISTING TO REMAIN, NO WORK REQUIRED. NOT EVERY SUB-FEED INSTALLED TO EXISTING DISTRIBUTION SECTION IS SHOWN, HOWEVER, DISTRIBUTION SECTION HAS CAPACITY AND SPACE FOR ADDITIONAL CIRCUIT BREAKERS REQUIRED BY THIS SCOPE OF WORK.

4 EXISTING SUB-FEED CIRCUIT BREAKER AND TRANSFORMER PRIMARY FEEDER TO REMAIN, NO WORK REQUIRED.

5 EXISTING TRANSFORMER AND SYSTEM GROUND TO REMAIN, NO WORK REQUIRED.

6 EXISTING TRANSFORMER SECONDARY FEEDER TO REMAIN, NO WORK REQUIRED.

(7) EXISTING DISTRIBUTION PANELBOARD TO REMAIN. PANELBOARD IS 208Y/120V, 3PH 4W, 600A WITH SUFFICIENT CAPACITY FOR THE REVISED/ADDITIONAL LOAD REQUIRED BY THE SCOPE OF THIS WORK. REFER TO SITE ELECTRICAL PLAN, SHEET EI.OI FOR COORDINATION/REFERENCE.

8 EXISTING BUILDING POWER PANEL TO REMAIN AND BE USED FOR THIS SCOPE OF WORK. PANEL IS 208Y/I2OV, 3PH, 4W, 225A BUSSING WITH I5O/3 MAIN CIRCUIT BREAKER AND HAS CAPACITY FOR THE ADDITIONAL LOAD REQUIRED BY THIS SCOPE OF WORK. PROVIDE NEW 60/3 CIRCUIT BREAKER PER SPECIFICATIONS (MATCH EXISTING EQUIPMENT MANUFACTURER AND I.C. RATINGS CONTRACTOR SHALL VERIFY ALL) AND INSTALL IN SPACE AVAILABLE IN EXISTING DISTRIBUTION SECTION. RUN 1-1/4"C. 4 #4 CU THWN + 1 #10 CU GROUND TO NEW PANEL AND CONNECT.

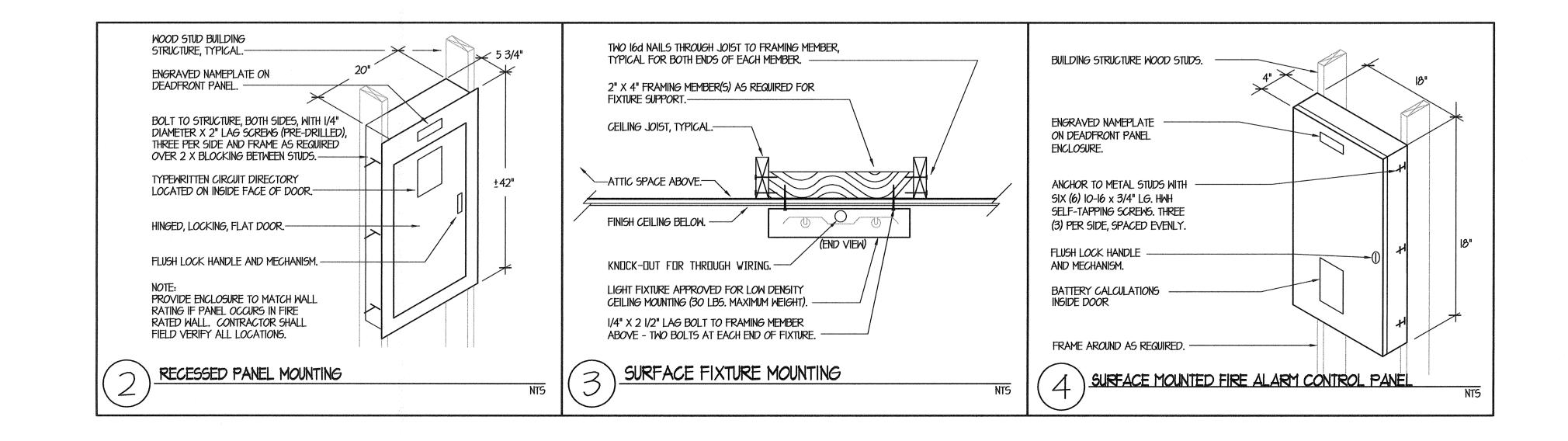
9 EXISTING SUB-FEED CIRCUIT BREAKER, FEEDER AND PANELBOARDS TO REMAIN, SHOWN FOR CLARITY ONLY. NO WORK REQUIRED, TYPICAL UNLESS NOTED OTHERWISE.

O PROVIDE NEW PANEL PER SPECIFICATIONS AND INSTALL PER 2/E4.01. REFER TO PANEL SCHEDULE THIS SHEET FOR COORDINATION/REFERENCE.

NO SCALE

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| 17 | 20 | 1 | | | Х | | 0.720 | FOOT LIGHTS | | | | 1.440 | FOOT LIGHTS | 0.720 | | Х | | | 20/ | 18 |
| 19 | 20 | 1 | | | Х | | 0.120 | FOOT LIGHTS | | 1.620 | | | PLATFORM STORAGE | 0.900 | | Х | | | 20/ | 20 |
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| 25 | 20 | 1 | | | | Х | 0.900 | MULTI-PURPOSE CON | V. OUT. | 1.800 | - | | PLATFORM | 0.900 | Х | | | | 20/ | 26 |
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| 37 | | T | | | | | 0.000 | SPACE | | 4.300 | | | PANEL 'GAB' | 4.300 | | | | | 60/3 | 38 |
| 39 | | T | | | | | 0.000 | SPACE | | | 4.285 | | *************************************** | 4.285 | | | | | | 40 |
| 41 | | T | T | | | | 0.000 | SPACE | | | | 2.247 | | 2.247 | | | | | 7 | 42 |
| | STII | | | | В | RE | AKER A | I.C. RATING | LCL | 1.555 | 1.518 | 1.410 | 208Y/120 VOLTS 3 Ø 4 | WIRE EXIS | TIN | <u>6</u> F | ZATE | DN | JUTR | AL |
| | ISTII | | | | | | | OSURE DEPTH | TOTAL KVA | 13.875 | 12.973 | 9.797 | 225 A BUS AMPACITY | 1 <u>50/</u> | | | MAI | N BF | REAK | ER |
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| 3 | 20/ | H | | 1 | x | 0.360 | RECEPTACLES | | <u> </u> | 3.480 | | | 3.120 | | T | | x Z | 4 |
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| 7 | 20/ 3 | X | | | | 0.805 | CONDENSING UNIT | ndga yakang pangayan paga nina asamah cinta yan mang kamalan agiyya na harangan pingaka nini palam | 0.805 | | | SPARE | 0.000 | T | | X | 20/ | 8 |
| 9 | 7 | X | | | | 0.805 | 440 | | | 0.805 | | SPARE | 0.000 | | | X | 20/ | 10 |
| II | F | Х | | | | 0.805 | 4444 | | | | 1.305 | REF/FREEZER LIGHTS | 0.500 | X | | | 20/ | 12 |
| 13 | | | | | | 0.000 | SPACE | | 0.000 | | | SPARE | 0.000 | | | Х | 20/ | 14 |
| 15 | | | | | | 0.000 | SPACE | | | 0.000 | | SPARE | 0.000 | | | Х | 20/ | 16 |
| 17 | | | | | | 0.000 | SPACE | | | | 0.000 | SPACE | 0.000 | | | | | 18 |
| 19 | | | | | | 0.000 | SPACE | | 0.000 | | | SPACE | 0.000 | | | | | 20 |
| 21 | | | | | | 0.000 | SPACE | | | 0.000 | | SPACE | 0.000 | | | | | 22 |
| 23 | | | | | | 0.000 | SPACE | | | | | SPACE | 0.000 | | | | | 24 |
| 10,0 3.7 | 000 5" | | | | | | J.C. RATING LOSURE DEPTH | LCL TOTAL KYA | 0.075 4.300 | <i>0.000</i> 4.285 | 0.125 2.247 | 208Y/120 VOLTS 3 Ø 4 60 A BUS AMPACITY | WIRE 100% 60/3 | | | | NEUTR BREAK | |
| FLU | SH | | | MO | UNT | ING PER | 2/E40I | TOTAL AMPS | 35.83 | 35.71 | 18.73 | 24CIRCUIT INTERIOR | Stand |)AR | D | | <u> </u> | UGS |





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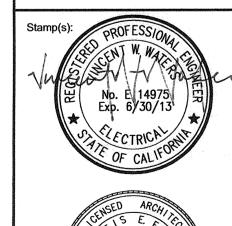
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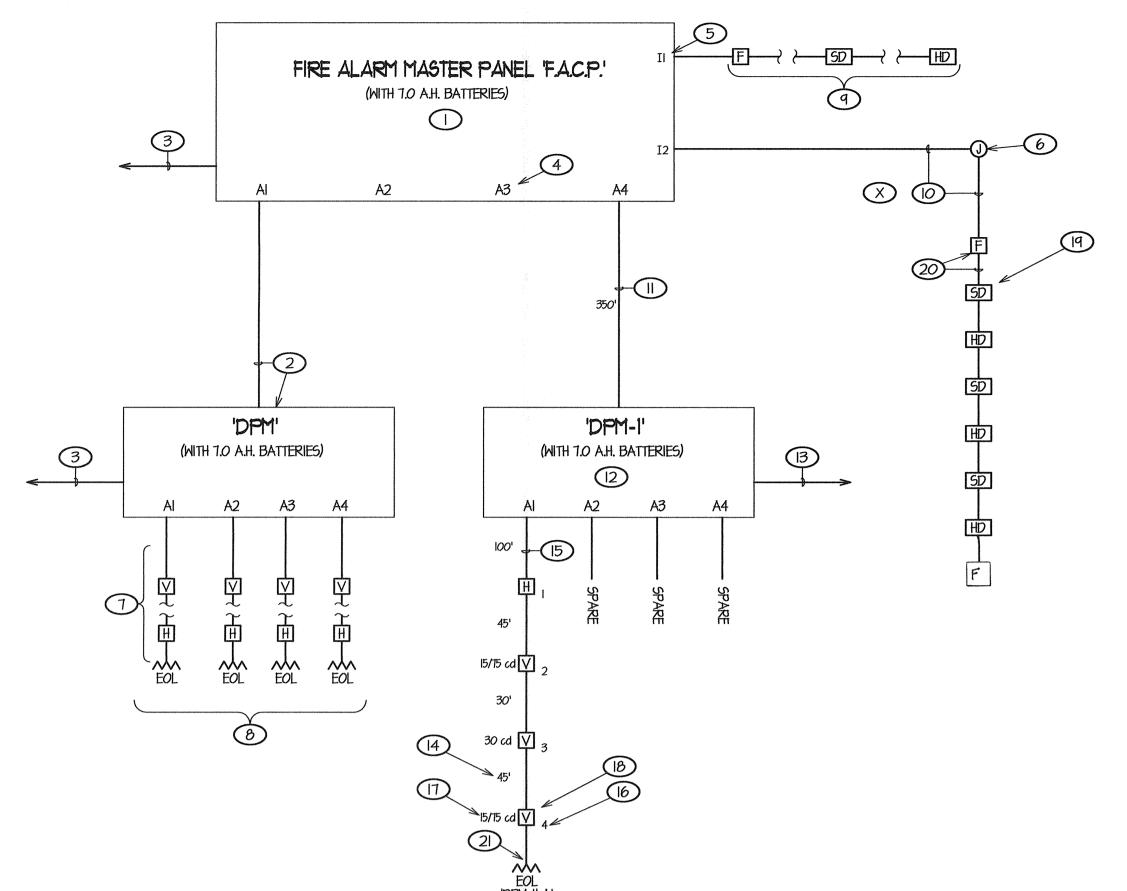
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6" MINIMUM

90" MINIMUM

96" Maximum

80" MINIMUM

FIRE ALARM SINGLE LINE DIAGRAM NOTES

EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. PANEL IS A FIRENET 4127 AS MANUFACTURED BY HOCHIKI, C.S.F.M. # 7165-0410:0159, INSTALLED UNDER EMERGENCY CIRCUMSTANCES IN 2010 WITH PROTECTION MONITORING PER N.F.P.A. 72, CHAPTER 10, SECTION IO.15 REQUIREMENTS. REFER TO FIRE ALARM CALCULATIONS, THIS SHEET AND SITE ELECTRICAL PLAN, SHEET EI.OI FOR COORDINATION/REFERENCE.

2 EXISTING FIRE ALARM DISTRIBUTED POWER MODULE AND FIRE ALARM FEEDER FROM FIRE ALARM CONTROL PANEL 'FACP' TO REMAIN. DPM IS SK5395 AS MANUFACTURED BY SILENT KNIGHT, C.S.F.M. # 7300-0559:0123, INSTALLED UNDER EMERGENCY CIRCUMSTANCES IN 2010 WITH PROTECTION MONITORING PER N.F.P.A. 12, CHAPTER 14 REQUIREMENTS. REFER TO FIRE ALARM CALCULATIONS, THIS SHEET AND SITE ELECTRICAL PLAN, SHEET EI.O. FOR COORDINATION/REFERENCE.

3) TO EXISTING DEDICATED I20VAC, 20A CIRCUIT BREAKER FOR EXISTING FIRE ALARM CONTROL EQUIPMENT TO REMAIN, NO WORK REQUIRED.

5 INITIATION CIRCUIT DESIGNATION.

4 NOTIFICATION CIRCUIT DESIGNATION, TYPICAL.

6 EXISTING BUILDING SIGNAL PULL CAN LOCATED IN EQUIPMENT ROOM TO REMAIN. REFER TO FIRE ALARM PLAN, SHEET E3.01 FOR COORDINATION/REFERENCE.

(7) EXISTING NOTIFICATION APPLIANCES AND CIRCUITING SHOWN FOR CLARITY ONLY, TYPICAL WHERE OCCURS THIS PANEL. NO WORK REQUIRED. REFER TO FIRE ALARM BATTERY CALCULATIONS, THIS SHEET FOR COORDINATION/REFERENCE.

8 EXISTING NOTIFICATION CIRCUIT END OF LINE RESISTOR TO REMAIN, SHOWN FOR CLARITY ONLY. NO WORK REQUIRED.

(9) EXISTING INITIATING DEVICES AND CIRCUITING SHOWN FOR CLARITY ONLY. NO WORK

(10) ONE 'F' CABLE (INITIATION) IN EXISTING I"C. PER PLANS.

(II) 2 #12 CU THWN (NOTIFICATION) IN EXISTING I"C. PER PLANS.

(12) PROVIDE NEW FIRE ALARM DISTRIBUTED POWER MODULE PER SPECIFICATIONS AND CONNECT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE POWER PER FIRE ALARM PLAN, SHEET E3.01. REFER TO FIRE ALARM CALCULATIONS, THIS SHEET FOR COORDINATION/REFERENCE.

(13) TO DEDICATED 120VAC, 20A CIRCUIT BREAKER FOR FIRE ALARM CONTROL EQUIPMENT PER PER N.F.P.A. 72, CHAPTER IO, SECTION IO.5.5.1 AND PROVIDE RED COLOR CIRCUIT BREAKER. HANDLE AND DISCONNECT LOCATION LABELING PER N.F.P.A. 72, CHAPTER IO, SECTION 10.5.5.2. ADDITIONALLY, CONTRACTOR SHALL PROVIDE AND INSTALL A LISTED LOCK OUT DEVICE COMPATIBLE WITH THE CIRCUIT BREAKER FOR ADDED PROTECTION. REFER TO FIRE ALARM PLAN, SHEET E3.01 FOR COORDINATION/REFERENCE.

(14) DENOTES DISTANCE BETWEEN NOTIFICATION APPLIANCES, TYPICAL

(15) RUN 2 #12 CU THWN (NOTIFICATION) BETWEEN NOTIFICATION APPLIANCES, TYPICAL, SHOWN HERE FOR CLARITY ONLY. SEE FIRE ALARM PLAN, SHEET E3.01 TO DETERMINE EXACT ROUTING REQUIREMENTS OF FIRE ALARM CIRCUITING AND CONDUIT.

(16) DENOTES NOTIFICATION APPLIANCE NUMBER USED IN VOLTAGE DROP CALCULATIONS. TYPICAL. REFER TO FIRE ALARM VOLTAGE DROP AND BATTERY CALCULATIONS, THIS SHEET FOR COORDINATION/REFERENCE.

DENOTES FIRE ALARM VISIBLE NOTIFICATION APPLIANCE NOMINAL CANDELA RATING

(18) PROVIDE NOTIFICATION APPLIANCE PER SPECIFICATIONS, TYPICAL. REFER TO INDIVIDUAL BUILDING FIRE ALARM PLANS FOR EXACT DEVICE LOCATIONS, QUANTITIES AND CONDUIT ROUTING REQUIREMENTS. REFER TO FIRE ALARM SYMBOL SCHEDULE, THIS SHEET FOR COORDINATION/REFERENCE.

19 PROVIDE INITIATING DEVICE PER SPECIFICATIONS, TYPICAL. REFER TO INDIVIDUAL BUILDING FIRE ALARM PLANS FOR EXACT DEVICE LOCATIONS, QUANTITIES AND CONDUIT ROUTING REQUIREMENTS. REFER TO FIRE ALARM SYMBOL SCHEDULE, THIS SHEET FOR COORDINATION/REFERENCE.

(20) EXISTING INITIATION DEVICE IN AREA OF WORK TO REMAIN. EXTEND ONE 'F' CABLE PER PLANS FROM EXISTING JUNCTION BOX, ITEM 6 ABOVE, AND CONTINUE BETWEEN INITIATION APPLIANCES, TYPICAL, SHOWN HERE FOR CLARITY ONLY. SEE BUILDING FIRE ALARM PLAN TO DETERMINE EXACT ROUTING REQUIREMENTS OF FIRE ALARM CIRCUITING AND CONDUIT.

(21) END OF LINE RESISTOR FOR INDICATED NOTIFICATION CIRCUIT, TYPICAL. PROVIDE AND INSTALL AT LAST NOTIFICATION APPLIANCE IN CIRCUIT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

FIRE ALARM BATTERY CALCULATIONS - "DPM-1" QUANTITY EQUIPMENT DESCRIPTION (AMPERES) (AMPERES) EACH SUB-TOTAL EACH SUB-TOTAL DISTRIBUTED POWER MODULE 0.090 | 0.090 | 0.090 0.000 | 0.000 | 0.028 0.028 0 VISUALS 15/75 cd 2 | 0.000 | 0.000 | 0.090 | 0.180 VISUALS 0.000 | 0.000 | 0.093 | 0.093 SUB-TOTAL AMPERES 0.391 AMPS 0.090 AMPS x 24 HOURS x 0.084 HOURS SUB-TOTAL AMPERE-HOURS 0.023 A.H. 2.193 A.H. TOTAL REQUIRED AMPERE-HOURS FOR: FIRE ALARM CONTROL PANEL BATTERY NON-LINEAR DISCHARGE CHARACTERISTIC FACTOR x 1.2 TOTAL MINIMUM AMPERE HOURS REQUIRED 2.631 A.H. PROVIDED BATTERY CAPACITY 7.0 A.H. FIRE ALARM VOLTAGE DROP CALCULATIONS - FIRE ALARM PANEL OHMS RES. | SEGMENT | TOTAL WIRE LENGTH AWG SIZE CIRC. MILS AMPERES AMPERES % VD 0.30 100' #12 6530 0.00164 0.27 #12 6530 0.00164 0.68 0.20

BASED UPON A 24 VDC CIRCUIT OPERATING AT TO DEGREES FARENHEIT

30′

FIRE ALARM SYMBOL SCHEDULE

#12

6530

TOTAL PERCENTAGE DROP IN CIRCUIT:

#12 6530

0.00164

0.00164 0.01

0.09

FIRE ALARM MASTER PANEL HOCHIKI FIRENET 4127 (C.S.F.M. # 7165-0410:0159) FIRE ALARM DISTRIBUTED POWER MODULE

0.092

ANNUNCIATION CIRCUIT: 'DPM-I' AI

0.18

0.090 | 0.09 | 45'

HOCHIKI #FN-642-ULADA (C.S.F.M. # 7315-0410:0166)

(C.S.F.M. #7300-0410:0132)

AUTOMATIC SMOKE DETECTOR (PHOTOELECTRIC) -HOCHIKI #ALG--V (C.S.F.M. #7272-0410:0149) HOCHIKI #HSB-NSA-6 BASE

AUTOMATIC HEAT DETECTOR MOUNTED IN ATTIC HOCHIKI #DFE-190 (C.S.F.M. #1270-0410:0119) HOCHIKI #HSC-224L BASE

CIRCUIT END OF LINE RESISTOR.

(CS.F.M. #7300-0410:0132)
FIRE ALLEM MANUAL PULL STATION (CSFM# 7150-0410:0169)
HOCHI # DCP-AMS-KL-LP

WALL MOUNTED VISUAL DEVICE - CANDELA RATING PER PLANS WHEELOCK #RSS-24MCW-FW (C.S.F.M. #7125-0785:0141) CURRENT: 0.090 A 15/15 CD 0.092A 30 CD

FIRE ALARM SYSTEM OPERATIONAL MATRIX

| 1 | λ | 1 11 Aggust / Aggs | m/ 11 41 1 40 1 1 | | 1 10001 4 | | | And the second second |
|---|--------|-----------------------|---|--------------------------------------|------------------------------|--|---------------------------------------|--|
| | SYMBOL | DEVICE DESCRIPTION | ACTIVATE EVACUATION HORNS/ STROBES | RELEASE DOOR CLOSURE DEVICE | SHUT DOWN HVAC FANS | ANNUNCIATE AT BUILDING F.A.C.P. | ACTIVATE FIRE/ SMOKE DAMPERS | ACTIVATE FIRE RATED ROLL-UP DOORS |
| | SD | SMOKE DETECTOR | Х | X | | X | X | X |
| 4 | F | MANUAL PULL | X | × | | X | × | X |
| - | HD | HEAT DETECTOR | X | Х | | X | | X |

COMPLETE AUTOMATIC FIRE ALARM SYSTEM SUBMITTAL

THE FIRE ALARM SYSTEM DESIGN IS A COMPLETE PLAN SUBMITTAL PER DSA POLICY. THE CONTRACTOR SHALL INSTALL THE AUTOMATIC, ADDRESSABLE FIRE PROTECTION SYSTEM AS SHOWN AND AS HEREIN SPECIFIED. IF ANY SUBSTITUTION OF FIRE ALARM EQUIPMENT IS TO BE REQUESTED, SUCH REQUEST SHALL BE MADE A MINIMUM OF TEN BUSINESS DAYS PRIOR TO PROJECT BID DATE. THE CONTRACTOR SUBMITTAL SHALL INCLUDE ALL MANUFACTURER'S CATALOG EQUIPMENT SPECIFICATION SHEETS, THE CSFM LISTING SHEETS FOR INDIVIDUAL COMPONENTS COMPRISING THE SUBSTITUTED FIRE ALARM SYSTEM, BATTERY LOAD CALCULATIONS AND VOLTAGE DROP CALCULATIONS FOR EACH SIGNALLING CIRCUIT. SHOULD THE SUBSTITUTED SYSTEM BE APPROVED AND INSTALLED, THE CONTRACTOR SHALL PROVIDE ONE SET OF REPRODUCIBLE, CAD GENERATED, DSA-ORS APPROVED AND STAMPED 'AS-CONSTRUCTED' DRAWINGS TO THE ENGINEER UPON COMPLETION OF THE SYSTEM

FIRE ALARM SINGLE LINE DIAGRAM

HEAT DETECTOR MOUNTED IN ACCESSIBLE ATTIC

INITIATION DEVICE MOUNTED ON CEILING NOT

WALL MOUNTED VISUAL AND COMBINATION VISUAL/AUDIBLE

+96" MAXIMUM A.F.F. FOR CEILINGS LOWER THAN +96" A.F.F.,

DEVICES MAY BE MOUNTED WITHIN THE SPACE 6" BELOW THE

FIRE ALARM DEVICE ELEVATION

FIRE RATED BACKING, 3M MPP+ MOLDABLE PUTTY PAD, U.L. CERTIFICATION

CLIV.R9700; EGS NELSON FIRESTOP FSP MOLDABLE PUTTY PAD, U.L. CERTIFICATION

FIRE RATED BACKING REQUIRED WHERE OUTLET BOXES OCCUR WITHIN 24" OF EACH OTHER IN A FIRE

APPROVED AND LISTED CATEGORY 'CLIV' WALL OPENING PROTECTIVE DEVICE AS DEFINED IN U.L. FIRE

RATED WALL. PROVIDE INSTALLATION TO MATCH RATING OF THE WALL AS REQUIRED USING AN

LESS THAN 24"

 $\stackrel{\prime}{----}$ 5/8" GYPSUM WALL BOARD, TYPICAL BOTH SIDES OF WALL

- STEEL STUD WALL STRUCTURE

SHEET METAL SCREWS, TWO PER OUTLET BOX

ONE HOUR RATED INSTALLATION SHOWN

OUTLET BOX MOUNTING

ATTACH TO STRUCTURE WITH 1/4" DIAMETER SELF-TAPPING

CEILING WITH VISUAL ROOM COVERAGE ADJUSTED PER

DEVICES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS SHALL BE LOCATED IN AN AREA BEGINNING +80" MINIMUM TO

SPACE LOCATED PER PLANS .-

CEILING MOUNTED NOTIFICATION

LESS THAN 4" FROM SIDEWALL.

CHAPTER 18, SECTION 18.5.4.—

RESISTANCE DIRECTORY VOL. I.

CLIV.RIO764 OR EQUAL).

OUTLET BOX, TYPICAL -

MANUAL PULL STATION.

FINISH FLOOR LINE. -

DEVICE PER PLANS.

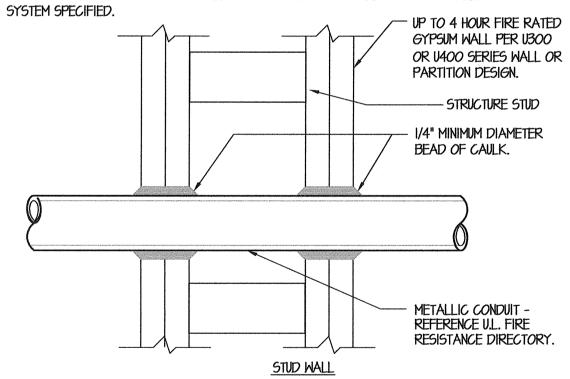
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TOP OF AUDIBLE DEVICE SHALL BE MOUNTED NOT LESS THAN 90" A.F.F. AND NOT

LESS THAN 6" BELOW FINISH CEILING. REFER TO NFPA 72, CHAPTER 18, SECTIONS

THE FOLLOWING INFORMATION IS FOR REFERENCE ONLY, ALL PENETRATIONS IN FIRE-RATED ASSEMBLIES SHALL BE PROTECTED AS REQUIRED BY C.B.C., CHAPTER 7. THE U.L. FIRESTOP SYSTEM SHALL BE INSTALLED AND USED EXACTLY AS STATED IN THE U.L. FIRE RESISTANCE DIRECTORY. IF CONDITIONS ARE ENCOUNTERED OTHER THAN AS DEPICTED HEREIN, CONTRACTOR SHALL NOTIFY THE PROJECT INSPECTOR OF RECORD, PROPOSE AN ALTERNATE FIRE STOP SYSTEM AND OBTAIN THE INSPECTOR'S WRITTEN APPROVAL PRIOR TO INSTALLATION. REFER TO INSTALLATION NOTES BELOW FOR EACH

NO SCALE



_ THROUGH-PENETRATION SYSTEM #W-L-1001

MINIMUM 5/8", I-I/4", I-7/8" AND 2-I/2" THICKNESS OF CAULK FOR I, 2, 3 AND 4 HR. RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF THE WALL. MINIMUM I/4" DIAMETER BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT OF CONTACT LOCATION ON BOTH SIDES OF WALL.

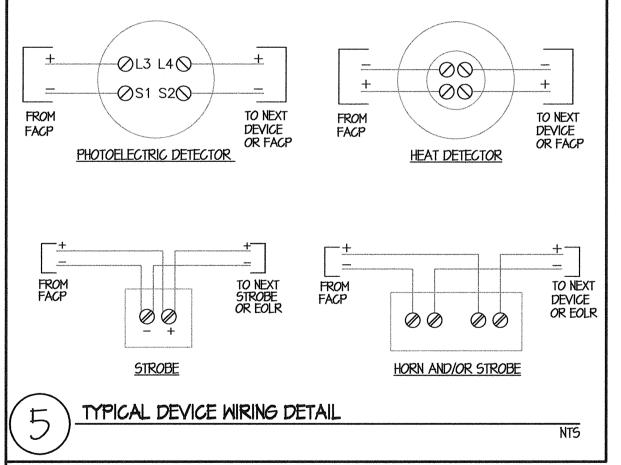
2. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AND THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE CONDUIT AND THE HOURLY RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED AS TABULATED BELOW:

| MAXIMUM CONDUIT | F RATING | T RATING |
|-------------------|--------------------------------------|--------------------------------|
| DIAMETER (INCHES) | HR | HR |
| | 1 OR 2 3 OR 4 1 OR 2 3 OR 4 | 0+, 1 OR 2 3 OR 4 0 0 |

INSTRUCTIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E&I4 (ANSI/UL I479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #WLIOOI. REFER TO U.L. FIRE RESISTANCE DIRECTORY FOR ADDITIONAL REQUIREMENTS, LIMITATIONS AND RESTRICTIONS.

4. USE 3M MODEL #FIRE BARRIER WATER TIGHT SEALANT 3000WT, C.S.F.M. LISTING #4485-0941:0130.

FIRESTOP REQUIREMENTS FOR CONDUIT PENETRATION FOR METALLIC CONDUITS THROUGH FIRE RATED WALLS



WATERS ENGINEERING, INC. Consulting Electrical Engineer P.O. BOX 630 Visalia, California 93279-0630 Telephone (559) T33-9T33 Facsimile (559) 733-9755 E-mail: waterseng@comcast.net

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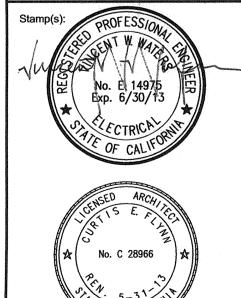
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| | COMPLIANCE | | (Part 1 | | | PATIFICATE OF COMPLIANCE | | | | _ | 2 of 4 | - | | <u>1-1C</u> |
|---|---|--|--|----------------------------------|---------------------------|---|--|--------------------------|----------------|-------------------|---|------------------|------------|--------------|
| roject Name: MT. VERNON ELEMENTARY SCHOO | OL KITCHEN ADDITION | | | Date: 07-18-12 | ļ | OOR LIGHTING SCHEDULE and FIELD | INSPI | ECTIC | N EN | ERGY | | :CKLI | ST | |
| roject Address: | | | Climate Zone: | Building CFA: | Project MT. VI | varne: PRNON ELEMENTARY SCHOOL KITCHEN ADDITION | | | | | Date: | 07-18- | 12 | |
| 2161 POTOMAC AVENUE BAKERSFIELD, CA | | | 13 | 394 Unconditioned Floor Area: | Insta | lation Certificate, LTG-1-INST (Retain a copy | and veri | y form is | complete | d and sign | | Field Ins | spector | ' |
| | | | | O | | | ******************************* | | | | | Teld Ins | pector | |
| eneral information | | | | | Cert | ficate of Acceptance, LTG-2A (Retain a cop | y and v | rify form | is comple | ted and si | gned.) | | - | |
| uilding Type: | X Nonresidential | High-Rise Reside | ential | Hotel/Motel | A sep | arate Lighting Schedule Must Be Filled Out for Conditioned | | | | | | hting po | ower liste | ed on |
| Schools | Relocatable Public Schools | Conditioned Space | ces | Unconditioned Spaces | - | ghting Schedule is only 😿 Conditioned Spaces | | | | ed Spo | | | | |
| hase of Construction: | New Construction | Addition | | X Alteration | | ne actual indoor lighting power listed below includes all in: ccordance with §146(a) | stalled | permanei | nt and p | portable | lighting | systems | in | |
| lethod Of Compliance: | Complete Building | Area Category | | Unconditioned Spaces | X 0 | nly for offices: Up to the first 0.2 watts per square foo | | | | | | | | |
| Occumentation Author's Declarati | on Statement te of Compliance documentation is | s accurate and co | omplete. | | | the calculation of actual indoor lighting power density in apting in excess of 0.2 watts per square foot is totaled l | | ance wit | th the e | xception | to §14 | 6(a). All | portable | • |
| ame: | | Signature: | | | | Luminaire Schedule (Type, Lamps, Ballasts) | 7010W. | | | instalk | ed Wa | tts | | |
| VINCENT W. WATERS | | | | | A | В | С | D | l | | F | G | | -1 |
| _{ompany:} Waters Enqineering, Inc. | | | | Date: 07-18-12 | | | | | How wa | tage was mined | **** | | Fi Insp | eld ector |
| ddress: P.O. BOX 630 | | | | If applicable: | | | atrure | | | | gg of | × | | |
| F.D. 100 000 | | | | CEA # | e or Tag | Complete Luminaire Description | cial Fe | s per indire | CEC Default | According to | | D C | | |
| ity/State/Zip | | | | Phone: | Nam | (i.e., 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Spec | Watts | from NA8 | §130 (d or e) | Number Luminai | install Watts | Pass | Ē |
| VISALIA, CA 93219-0630 rincipal Lighting Designer's Decl | laration Statement | | | (559) 133-9133 | Α | (2) 4 FT. FLUORESCENT T8 ELECRO | | 48.0 | (X) | | 5 | 240 | | |
| | 3 of the California Business and | Professions Code | to accept respon | sibility for the lighting design | В | (2) 2 FT. FLUORESCENT TO ELECRO | 1- | 33.0 | X | | 1 | 33 | | |
| | ce identifies the lighting features the California Code of Regulation | | specifications requ | uired for compliance with | - | | | | - | | *************************************** | | | |
| • | nted on this Certificate of Compli | | nt with the inform | ation provided to document | | | 旹 | | | | | | H | H |
| this design on the other ap | plicable compliance forms, workshoroval with this building permit ap | neets, calculations, | | | | | 峝 | | | | | | | |
| | cover with this building permit up | | | | 1 | | 10 | | | | | | | |
| ome: VINCENT W. WATERS | | Signature: | | | | | | | | | | | | |
| ompany: WATERS ENGINEERING, INC. | | | | Phone: (559) 133-9133 | | | <u> </u> | | | | | | | |
| ddress: | | MIN | *************************************** | License: | | | 믐 | | | | | | | |
| P.O. BOX 630 ity/State/Zip | | | | E 14975 Date: | | | 怡 | | - | | | | | |
| VISALIA, CA 93279-0630 | | | No. and Commission of Commissi | 07-18-12 | . [| | 10 | | | | | **** | | |
| ighting Mandatory Measures ndicate location on plans of No | te Block for Mandatory Measures: | EI.00 | | _ | | | | | | | | | | |
| JOHTING COMPLIANCE F | FORM AND WORKSHEETS (| check box if w | orksheet is inc | cluded) | | | | | | | | | | |
| LTG-1C Pages 1 through 4 | Certificate of Compliance. All Pages | | | | | | <u> </u> | | | | ************** | | | |
|] LTG-2C | Lighting Controls Credit Worksheet | | | | | | <u> 10</u> | UCTAL I E | D WATE | D DACE | TOTAL | | | |
|] LTG-3C] LTG-4C Pages 1 through 4 | Indoor Lighting Power Allowance Tailored Method Worksheet | | | | and the second section is | | - | - | | S PAGE | | 213 | L | |
| LTG-5C Pages 1 and 2 | Line Voltage Track Lighting Workshe | et | | | | Building total number of pages | I | nstallea | | Building | | | | |
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| 008 Nonresidential Compliance Forms | | | | August 2009 | | | ranco de marca de ma | | | | | | C Page | |
| | | | | | | tage shall be determined according to Section 130(d and a said then describe on Page 2 of the Inspection Checklist F | | | | | | | | |
| | | | | | | if necessary. | | | | | on management | | | 9 |
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(Part 1 of 4)

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|--|--|--|---------------------|--|---|
| MT. VERNON ELEMENTARY SCHOOL KITCH | | | 01- | 18-12 | <u></u> |
| NDOOR LIGHTING SCHEDULE ar | | | | | |
| Fill in controls for all spaces: a) area (250ft², | controls, b) multi-level | controls, c) manual daylighting (| controls for d | aylit areas | s > |
| automatic daylighting controls for daylit | areas > 250ft², d) shu | t–off controls, e) display lightin | g controls, f) | tailored l | ighting |
| controls — general lighting controlled se automatic controls for retail stores > 5 | eparately from display, o 30 000ff ² in accordance | namental and display case light with section 131 | ting and g) d | emand re | sponsive |
| | *************************************** | | | | |
| ANDATORY LIGHTING CONTROL CHECKLIST | LS - FIELD INSPEC | TION ENERGY | | | eld ector |
| Total (December) | Number of Units | Landing to Dulling | Special Features | 0 | 5-1 |
| Type/Description | or Units | Location in Building | | Pass | Fail |
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| PECIAL FEATURES INSPECTION the local enforcement agency should paritten justification and documentation, sustification, and may reject a building and documentation submitted. | ny special attention to to and special verification. | The local enforcement agency of | letermines the | adequacy | of th |
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| Reld Inspector's Notes or Discrepar | ncies | | | | |
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Certificate of Compliance

2008 Nonresidential Compliance Forms

| INDOOR LIGHTING POWER ALLOWANCE | y nga pangangan ng dipanggan panggan panghan panggan panggan panggan panggan panggan panggan panggan panggan p Panggan panggan pangga | LTG-3C | Ownership of D | ocuments | ř · |
|--|--|--|--|-----------------------------|-----------------|
| PROJECT NAME MT. VERNON ELEMENTARY SCHOOL KITCHEN ADDITION ALLOWED LIGHTING POWER (Chose One Method) | DATE | 01-18-12 | This document, the ide incorporated herein, as a Professional Service is | an instrume the proper | ent of ty of |
| A Separate LTG-3C must be filled out for Conditioned and Unconditioned S | Spaces. Indoor Lighting Power Allow nconditioned Spaces | vances listed on | Integrated Designs by and is not to be used, in w any other project without w © COPYRIGHT | vhole or in ritten autho | part for |
| BUILDING CATEGORY (From \$146 Table 146-E) | WATTS PER (ft²) TOTALS | A | by SOMAM, Inc. Management | Rev. Date: | |
| AREA CATEGORY METHOD - PART A A AREA CATEGORY (From §146 Table 146-F) KITCHEN, FOOD PREPARATION | B C COMPLETE BLDQ. AREA WATTS PER (ft²) I.60 39 | 630 630 630 | ONSTRUCTION Ilifornia 93710 E-Mail: design@son | Revision Description: | |
| AREA CATEGORY METHOD - PART A A B C D E | AREA | WATT8 | 2 5 | Revision: | |
| Primary Function Primary Function Sq Ft Additional Wattage Allowed Allo | tity of Special Total Design Watts | ALLOWED WATTS Smaller of D or F | NING - IN Fresh .0881 | Rev. Date: | |
| TOTALS — Enter in Ar 1. Additional watts available only when allowed according to the footnotes o art, craft, assembly or manufacturing specialized task work; precision comm 2. Special luminaires are light fixtures described as in the Table 146—F Footnotes. | nercial/industrial work; or lab spec | ndelier or sconce; ialized task work. | ENGINEER 6011 (559) 436- | | |

(Part 4 of 4)

| KITCHEN, | FOOD PRE | EPARATION | | | 1.60 | 394 | 630 | STRUCTION | California 95710 E-Mail: design@sc om | sscription: |
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| | | | | | TOTALS | 394 | 630 | SIGN • | rresno, -0887 esigns.cc | Revision Description: |
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| A | B | ETHOD - F | D | | | F | G | RIOR | , Suite ISt Fax (559) ww.integra | Revision: |
| Primary Function | Sq Ft | Additional Watts Per ft Allowed | Wattage Allowance (B x C) | Description(s) and Quantit Luminaire Types in each Prim | ty of Special ary Function Area | Total Design Watts | ALLOWED WATTS Smaller of D or F | ENGINEERING - INTERIOR | use | Date: |
| | | | | TOTALS — Enter in Are | ea Category Method - | Part A (table above) | | ERIN | 436–0881 | Rev. |
| art, craft, and allowance. TALORED The indoor | assembly luminaires METHOD | or manufact are light fi | turing specializ ixtures descride Total Allon nce using the | according to the footnotes on ed task work; precision comme ed as in the Table 146—F Foot wed Watts using the Tailored Method Tailored Method of compliance be filled out for CONDITIONED | ercial/industrial wo tnotes that are su taken from LTG-4C (F | rk; or lab speciali bject to an additi Page 1 of 4) Row 3 led using the LTG- | zed task work. onal wattage | ARCHITECTURE - ENGINE | Phone (559) 4 | Revision Description: |
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| (Part 4 of | | DATE | TG-1C |] | | | | | 100 <u></u> | Z |
| | | 01-18 | 8-12 |] | | | | Ш | 5g | |
| | | | Lighting Wattage Power Allowance | | | | | LE 24 COMPLIANCE | RNON ELEMENTARY SCHOOL | |
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DSA Identification Stamp:

FILE #:15-6

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

03-114521

TRACKING #: ___-

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E6.01

Sheet No.:

| Project Name: MT. VERNON ELEMENTARY KITCHEN ADDITION | | DATE 07-18-12 |
|--|---|--|
| Project Address: 2400 BENTON STREET, BAKERSFIELD, CA 93304 | | Total Hardscape Illuminated Area O |
| General Information | | |
| Phase of Construction: New Construction Addition | X Altera | tion |
| Documentation Author's Declaration Statement • I certify that this Certificate of Compliance documentation is | | |
| Name: VINCENT W. WATERS | Signature: | |
| Company: WATERS ENGINEERING, INC. | | Date: 07-18-12 |
| Address: P.O. BOX 630 | | If applicable: CEA # CEPE # |
| City/State/Zip VISALIA, CA 93279-0630 | | Phone: (559) 733-9733 |
| Principal Lighting Designer's Declaration Statement I am eligible under Division 3 of the California Business and F This Certificate of Compliance identifies the lighting features of Title 24, Pages 1 and 6 of the California Code of Regulati The design features represented on this Certificate of Compliant this design on the other applicable compliance forms, work enforcement agency for approval with this building permit | nd performance specifications recons. In a consistant with the information of the consistant with the information of the consistant with the information of the consistant of the consistant with the consistant of the consistant | quired for compliance with mation provided to document |
| Name: VINCENT W. WATERS | Signature: | |
| Company: WATERS ENGINEERING, INC. | | Date: 07-18-12 |
| Address: P.O. BOX 630 | | If applicable: CEA # CEPE # |
| City/State/Zip VISALIA, CA 93279-0630 | | Phone: (559) 733-9733 |
| Principal Lighting Designer's Declaration □ I certify that this Certificate of Compliance documentation is power, including building mounted, pole mounted, as well as all or Lighting Power Allowances for Specific Applications or Additional Liebeen counted more than one time for the same area, in accordance | ther outdoor lighting designed fo ghting Power Allowances for Ord | ecounts for all outdoor lighting or the site, and that Additional inance Requirements have not |
| Outdoor Lighting Mandatory Measures Indicate location on building plans of Mandatory Measures Note B | lock: El.00 | · · |
| LIGHTING COMPLIANCE FORMS AND WORKSHEETS (check box | if worksheet is included) | |
| For detailed instructions on the use of this and all Energy Efficien Nonresidential Manual publised by the California Energy Commission | | , please refer to the |
| ☑ OLTG-1C Certificate of Compliance. All 4 pages required on plans f | or all submittals. | |
| OLTG-2C (Page 1 of 3) Lighting Wattage Allowances for General Ha | rdscape, Sales Frontage, or Ornamenta | l Lighting. Optional on plans. |
| X OLTG-2C (Page 2 of 3) Lighting Wattage Allowances for Per Applico | tion or Per Area. Optional on plans. | |

OLTG-2C (Page 3 of 3) Additional Lighting Power Allowances for Ordinance Requirements. Optional on plans.

2008 Nonresidential Compliance Forms

Certificate of Compliance

| Project | Name: | NTARY KITCHEN A | CONTROL SCHEDULE and DDITION | a rell i | NOI- | COIR | AN CHEC | | DAT | E 07-18 | 3-12 |
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| OL | _TG- | -1C | Certificate of Comp | oliance | | (Part 3 of 4) | OLT | G-1C |
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| | | | PROJECT NAME MT. VERNON ELEMENTARY KITCHEN | na kana da som a kana kana kana ka kana ka kana kana | Secure and a secure of the sec | | DATE 07-18-1 | nemanistre en maria de la composición dela composición de la composición dela composición de la composición de la composición del composición de la composic |
| 07-18 | -l2 | | A. OUTDOOR LIGHTING ZON | | | numerous anados consus de tenuno, cual such confederar tenuncia como referencia a standa francesa. | 01-10-1 | |
| Field in | epector | | OUTDOOR LIGHTING ZONE: OLZ 1 | | OLZ 4 | | | |
| Field In | spector | | Is the Outdoor Lighting Zone: X Default | | | Amended by JHA | | |
| 8 | PARTITION OF THE PARTIT | ******************* | | | | | | |
| _Н_ | | *************************************** | Complete the information below if to (JHA): | ne default Outdoor Lighting Zone | nas been a | mended by the local juriso | liction naving a | utnority |
| installed Watts (D × F) | Fiel Inspe | ctor* | ☐ The site is a government design or LZ3, in accordance with Table ☐ The local jurisdiction having auth Energy Commission by providing ☐ The adopted change is posted or | 10-114-A, because the site is ority has officially adopted a chathe materials required in §10-11 | contained winge to the 14(d) to the | ithin such a zone. State Default Lighting Zone | | |
| 201 | 무 | 므 | B. ADDITIONAL LIGHTING PO | OWER ALLOWANCE FOR | ORDINAN | CE REQUIREMENTS | and a section of the control of the | |
| | | | Are additional lighting power allowances fo | r ordinance in Table 147-C used? | | ☐ Yes ☒ No | ne provincia de la companio de la c | |
| | | | Complete the information below if a | dditional lighting power allowance | s for ordina | nce requirements are used: | | |
| | | | | | | | | |
| | | | The local jurisdiction having auth minimum footcandle levels, by for | | | | | |
| | | | proposed change. ☐ The local jurisdiction having auth | ority which adopted enecific outd | oor light love | ole and has notified the Co | emmission by ne | ovidina th |
| 201 | ttage and | | following materials required \$10- | | oor light leve | as and has nothed the co | minission by pr | oviding th |
| e on a pe or e). ilding pla | per luminermanent ns if nece | essary. | Required Acceptance Tests Designer: This form is to be used by the desystem, LTG-2A. The designer is respace shall be certified as meeting a certain type requires a test, list Nonresidential Reference Appendices section will allow the responsible pluminaire controlled. Enforcement Agency: Systems Acceptance. Before Occup system with controls is installed in The LTG-2A form is not considered are checked and/or filled and sign agency that certifies plans, specific requirements of §10-103(b) of Tit before the building can receive fin provided to the owner of the building can receive find the system of the building can receive find the control of the control | equired to check the acceptance the Acceptance Requirements the different lighting and the last Manual describes the test. Sinarty to budget for the scope of ancy Permit is granted for a nathebuilding or space shall be a complete form and is not ed. In addition, a Certificate of lations, installation certificates, lee 24 Part 6. The field inspectal occupancy. A copy of the LT ing for their records. | e tests and for Code Conumber of some this form of work approximation of the control of the control of the code of | list all control devices so ompliance. If all the lighting systems. The NAT Section in will be part of the plan operiately. Forms can be gotted building or space or is meeting the Acceptance of the property of the submitted by the enforcement of the forms shall be submitted in and maintenance informative the properly filled ou | erving the building system or in the Appending, completion grouped by type when ever ne Requirements. agency unless d to the enformation meet the and signed f | ling or control of the of this e of w lighting the boxes cement of must be |
| the add | equacy o | f the | APPEARANT THE RESIDENCE OF THE PROPERTY CONTROL OF THE | Luminaires Contr | olled | | *************************************** | OLTG-2A |
| special | justifica | tion | Equipment Requiring Testing | Description | Number of Like Controls | Location | | Outdoor Lighting Acceptanc Tests |
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| | | | | | | | | later franchisco de la constitución de la constituc |
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| | | | | | 1 | | | |
| | | | 1. Insert: OMS for Outdoor Motion Astronomical Time Switch; and STS | | | | Photocontrol; / | ATS for |
| | | | | | | | | |
| | August : | 2009 | 2008 Nonresidential Compliance Forms | | | | Aug | ust 2009 |

| PROJECT NAME MT. VERNON ELEMENTA | 01-18-12 | | |
|--|---|-------------------------------------|--|
| ALLOWED AND IN | STALLED OUTDOOR LIGHTING POWER | | |
| на в воружно информация правот в объекто постору по прина постанува по прина постанува по прина по при | | Lighting Wattage Power Allowance | |
| A | Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3) | 0 | |
| 3 | Specific application lighting wattage allowance per unit length (from OLTG—2C Page 1 of 3) | o | |
| > | Specific application lighting wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3) | o | |
|) | Specific application lighting wattage allowance per application (from OLTG—2C Page 2 of 3) | 201 | |
| | Specific application lighting wattage allowance per area (from OLTG—2C Page 2 of 3) | o | |
| = | Specific application lighting wattage allowance for ordinance requirements (from OLTG-2C Page 3 of 3) | o | |
| à | Total Allowed Wattage = Sum of rows A through F | 201 | |
| -1 | Total installed watts (from Compliance Fixture Schedule) (from OLTG-1C Page 2 of 4) | 201 | |
| Complies if Installed Wa | ttage in row H is less than or equal to the Total Installed Wattage in row G | X Yes ☐ No | |

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