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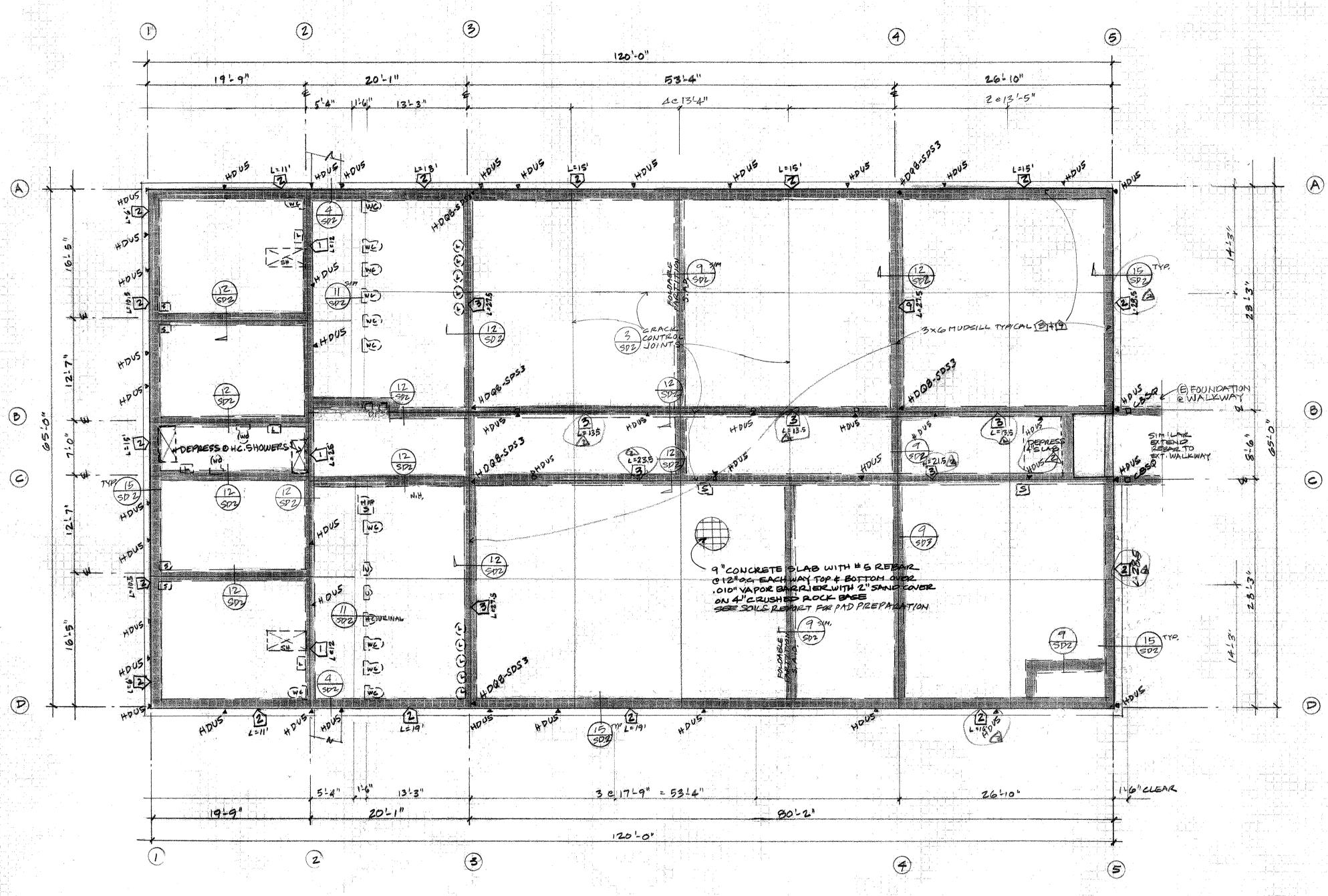
Date 10-25-11

Scale 1/8"=1-0" Drawn RL

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

FOUNDATION NOTES:

Please refer to notes and details on sheets SD-1? to SD-3.
 All footings to be 12" wide with 3-#5 rebar top & 3-#5 rebar at bottom.
 Design drawings S-1 take precedent over SD-1 to SD-3.
 Concrete shall not have less than six sacks of cement per cubic yard of concrete & a slump not to exceed 4" when placed.
 Soils report No. H-140-01 by Henry Justiniano & Associates, dated August 10, 2009.
 Soils engineer to be on site during excavations and grading.
 Coordinate with Civil, HVAC, Mechanical, Architectural and Electrical drawings.

Electrical drawings.

8. Use the following holdown anchors:

SSTB24 — for HDU5

SSTB28 - for HDQ8

9. If discrepancies found in plans, notify engineer of record immediately.

10. Where top or sole plate are cut for pipes, a metal tie minimum 0.058 inches thick and 1 ½ inches wide shall be fastened across the opening with 6 — 16d nails minimum each side. CBC Section 2320.11.7.

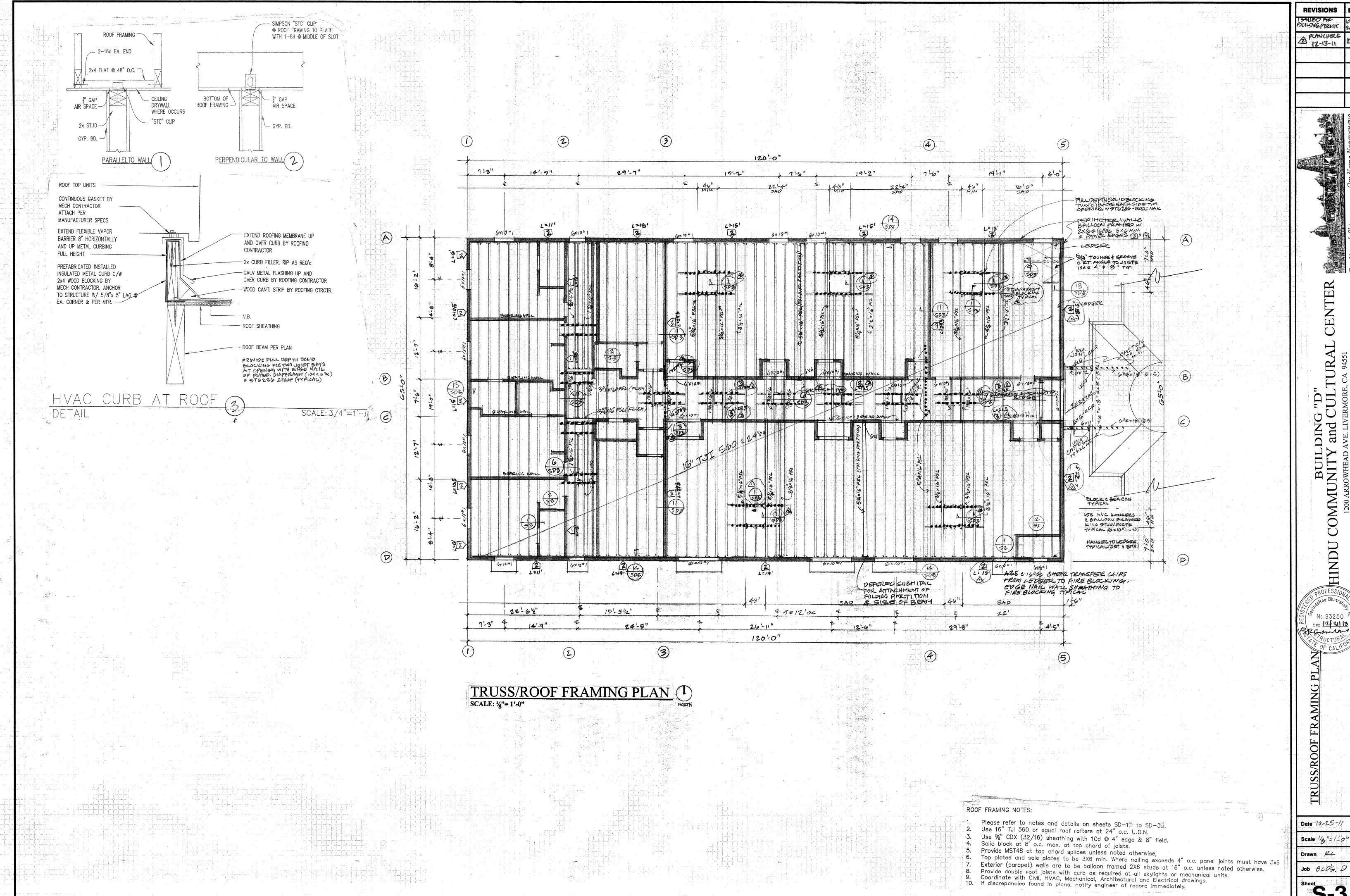
11. Prior to requesting a Building Department foundation inspection, the soils engineer shall inspect and approve the foundation excavations.

12. Prior to calling for foundation inspection, final grading and compaction reports shall be submitted to and approved by the Building

and any revisions from the original soils report incorporated into the plans and specifications.

13. Hold down hardware must be secured in place prior to foundation inspection.

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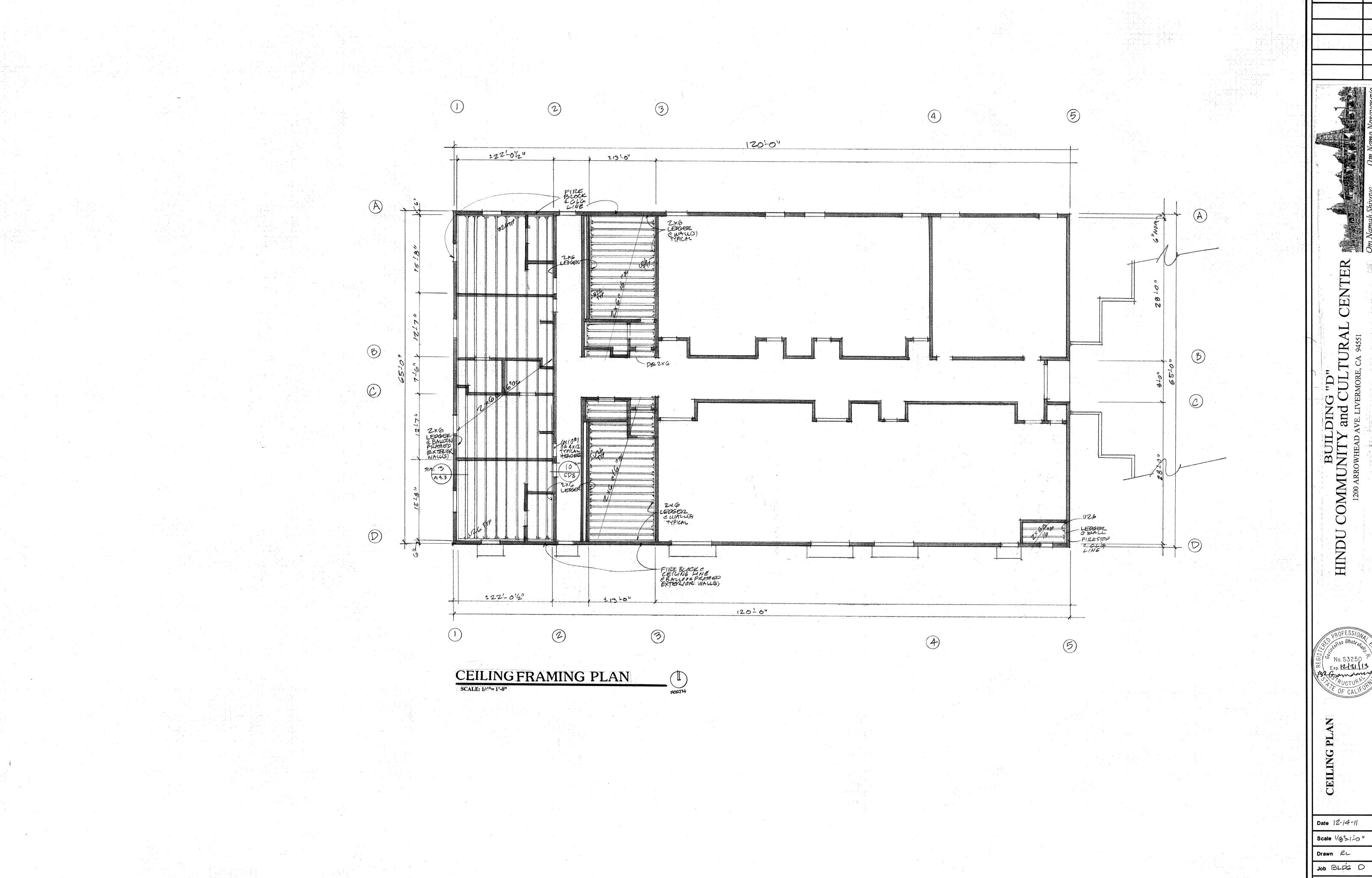
REVISIONS BY BUILDING PERMIT 12-13-11

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BUILDINC NITY and (WHEAD AVE. LIV) COMIMUN 1200 ARROW HINDU

Date 10-25-11

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BUILDING "D"
COMMUNITY and CULTURAL
1200 ARROWHEAD AVE. LIVERMORE, CA 94551 HINDU

Date |2-|4-1| Scale 1/8/21/0"

Drawn RL

- THE INTENT OF THESE DRAWINGS IS TO DELINEATE ALL ITEMS, INCLUDING GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, THAT ARE NECESSARY TO COMPLETE THE STRUCTURE TYPICAL DETAILS AND NOTES SHALL APPLY TO SIMILAR CONDITIONS, UNLESS SPECIFICALLY NOTED OTHERWISE.
- FOR CONDITIONS NOT SPECIFICALLY INDICATED ON THE DRAWINGS, DETAILS OF SIMILAR CHARACTER AND CONSISTENT WITH THE TYPE SHOWN FOR SIMILAR CONDITIONS, SHALL BE USED. SUCH DETAILS SHALL BE SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL VERIFY ALL EXISTING JOB CONDITIONS AND CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER, AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK
- COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS, SPECIALLY FOR THE SIZE AND LOCATION OF THE OPENINGS.
- OBTAIN STRUCTURAL ENGINEER'S APPROVAL BEFORE PROCEEDING WITH THE WORK FOR OPENINGS THAT PENETRATE STRUCTURAL MEMBERS, AND ARE NOT SHOWN AND/OR DETAILED ON STRUCTURAL DRAWINGS.
- FRAME OPENINGS AND SUPPORT MISCELLANEOUS EQUIPMENT AS DETAILED ON THE DRAWINGS. WHERE NO DETAILS ARE PROVIDED, OBTAIN STRUCTURAL ENGINEER'S APPROVAL BEFORE PROCEEDING WITH THE WORK.
- PROVIDE LATERAL BRACING FOR ALL SUSPENDED EQUIPMENT AND SUSPENDED CEILING IN ACCORDANCE WITH THE CBC.
- DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING, AND FOR THE FABRICATION, ERECTION AND JOB SAFETY; AND SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF SHORING, BRACING, FORM WORK, ETC., REQUIRED FOR THE PROTECTION AND SAFETY OF LIFE AND PROPERTY DURING THE CONSTRUCTION PERIOD.
- A10. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE CONDUCT OF WORK, INCLUDING ALL CONSTRUCTION METHODS AND PROCEDURES, SITE SAFETY, AND METHODS OF DESIGN AND MATERIALS FOR PROVIDING TEMPORARY VERTICAL AND LATERAL SUPPORT OF EXISTING AND NEW STRUCTURES. ENGINEERS SITE OBSERVATION VISITS SHALL NOT BE INTERPRETED AS A REVIEW OF CONTRACTOR'S SAFETY MEASURES.
- A11. PROVIDE CONTINUOUS SPECIAL INSPECTION IN ACCORDANCE WITH CBC SECTION 306 FOR DRILLING AND CONCRETE PLACEMENT IN FOUNDATION PIERS.
- A12. IF ANY CONSTRUCTION IS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, THE INSPECTOR SHALL NOTIFY THE STRUCTURAL ENGINEER. THIS NOTIFICATION SHALL BE BY TELEPHONE; INCLUDING A MESSAGE AT THE STRUCTURAL ENGINEER'S OFFICE, EXPLAINING THE NATURE OF NON-CONFORMANCE, FOLLOWED BY CONFIRMATION IN WRITING. THE CONTRACTOR SHALL BE ADVISED IMMEDIATELY, OF ANY CONSTRUCTION WHICH, IN THE INSPECTOR'S OPINION IS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

FOUNDATIONS

- THE RECOMMENDATIONS OF THE FOLLOWING GEOTECHNICAL INVESTIGATION REPORT THAT HAS BEEN PREPARED FOR THIS SITE, SHALL BE CONSIDERED AS A PART OF THE CONSTRUCTION DOCUMENTS:
 - . REPORT BY: HENRY JUSTINIANO & ASSOCIATES
 - DATE: AUGUST 10, 2009

Exterior and bearing walls to have 5/8" dia. galv. Anchor bolts at 48" on center with 3"x3"x1/4" washers (u.n.o.)

- B2. THE BOTTOM OF THE FOUNDATION SHALL BE AT UNDISTURBED NATIVE SOIL OR ENGINEERED
- B3. THE SOILS ENGINEER SHALL INSPECT SLAB AND FOUNDATION SUBGRADE PRIOR TO PLACING
- RETAINING WALLS DO NOT BACKFILL AGAINST CONCRETE OR MASONRY RETAINING WALLS UNTIL THEY HAVE REACHED DESIGN STRENGTH.

IF BACKFILLING IS NECESSARY BEFORE THE RETAINING WALL REACHES DESIGN STRENGTH OR THE ADJACENT STRUCTURE IS COMPLETE, PROVIDE BRACING AS REQUIRED, TO SUPPORT RETAINING WALL UNTIL THE ADJACENT STRUCTURE IS COMPLETE AND/OR THE RETAINING WALL HAS REACHED DESIGN STRENGTH.

CONCRETE

C1. CONCRETE SHALL CONFORM TO THE CURRENT EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" Standards and Reference CONCRETE SHALL BE READY-MIXED TYPE CONFORMING TO by the current IBC Code CONCRETE SHALL HAVE NOT LESS THAN SIX (6) SACKS OF CEMENT PER CUBIC YARD OF

CONCRETE. AT TWENTY-EIGHT (28) DAYS, CONCRETE SHALL DEVELOP COMPRESSIVE STRENGTH (Pc) OF 2,500 PSI. THE SLUMP SHALL NOT EXCEED 4 INCHES WHEN PLACED. THE MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED 3/4 INCH FOR SLAB-ON-GRADE, WALLS AND COLUMNS; AND 11/2 INCHES FOR FOOTINGS, PIERS AND GRADE BEAMS.

CONCRETE SHALL BE REGULAR WEIGHT, WITH HARD-ROCK TYPE AGGREGATE (150 LB/CFT).

- AGGREGATE SHALL CONFORM TO AMERICAN SOCIETY FOR MATERIALS AND TESTING (ASTM) C33, CEMENT SHALL CONFORM TO ASTM C150, TYPE 2.
- C3. CONCRETÉ SHALL BE MACHINE MIXED AND DELIVERED TO THE SITE IN ACCORDANCE WITH ASTM C-94.
- CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- PROVIDE MINIMUM CLEAR COVER OF CONCRETE OVER REINFORCEMENT AS INDICATED BELOW:
 - AGAINST EARTH FORM: EXPOSED TO EARTH BUT POURED AGAINST
 - FORM WORK & BOTTOM OF SLAB-ON-GRADE 2 INCHES ALL OTHER CONCRETE

- C6. EXCEPT 6-INCH OR LESS THICK SLAB-ON-GRADE, ALL CONCRETE SHALL BE MECHANICALLY VIBRATED TO ÉLIMINATE VOIDS AND COMPLETELY FILL THE FORMS WITHOUT CAUSING UNDUE SEPARATION.
- C7. DOWELS SHALL MATCH MAIN REINFORCEMENT IN SIZE AND SPACING, PROVIDE MINIMUM 48 BAR DIAMETER LAP, UNLESS OTHERWISE NOTED.
- C8. <u>SLAB-ON-GRADE</u> AT LIVING AREAS, PLACE SLAB ON 2 INCHES OF COMPACTED CLEAN SAND OVER 10 MIL. VAPOR BARRIER OVER 4 INCHES OF CLEAN, FREE-DRAINING CRUSHED ROCK. JUST PRIOR TO CONCRETE PLACEMENT, DAMPEN SAND WITH WATER,
- C9. CURING WITHIN SEVEN DAYS OF PLACEMENT, CONCRETE SURFACES EXPOSED TO THE ATMOSPHERE SHALL BE PROTECTED AND CURED BY DAMPENING WITH WATER AS NECESSARY, UNTIL THE SPECIFIED DESIGN STRENGTH IS ACHIEVED.
- C10. INTERIOR SLABS SHALL HAVE STEEL TROWEL FINISH; EXTERIOR SLABS SHALL HAVE LIGHT BROOM FINISH.
- C11. SPECIAL INSPECTION PER CBC SECTION 107 IS NOT REQUIRED.

D. CONCRETE REINFORCEMENT AND ACCESSORIES

D1. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 40. FOR NO. 5 AND SMALLER DIAMETER BARS AND GRADE 60 FOR LARGER THAN NO. 5 BARS. BAR DEFORMATION SHALL BE IN ACCORDANCE WITH ASTM-305.

WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. PROVIDE A MINIMUM 6 INCHES LAP AT JOINTS.

DO NOT WELD REINFORCEMENT.

- D2. REINFORCING BARS SHALL BE LAPPED AS INDICATED. PROVIDE MINIMUM LAP EQUAL TO 46 TIMES THE DIAMETER OF REINFORCING BARS AT SPLICES, AND STAGGER SPLICES.
- D3. ALL HOOKS SHALL BE STANDARD HOOKS UNLESS NOTED OTHERWISE. ALL COLUMN. BEAM! AND PILASTER TIES SHALL HAVE A 135° MINIMUM TURN PLUS 4 INCH EXTENSION TO THE FREE
- D4. PROVIDE REINFORCING BARS AT MID HEIGHT IN SLABS-ON-GRADE AND AS SHOWN ON THE
- D5. ANCHOR BOLTS SHALL BE MACHINE, BOLTS'A 307 WITH AMERICAN STANDARD REGULAR, SEMI-FINISHED, SQUARE OR HEXAGON HEADS. NUTS SHALL BE AMERICAN STANDARD HEAVY, SEMI-FINISHED, HEXAGON-TAPPED, UNC THREADED, CLASS B.

UNLESS OTHERWISE NOTED ON SHEAR WALL SCHEDULE, SILL PLATE BOLTS SHALL BE 5/8 INCH DIAMETER BY 10 INCHES LONG WITH A 2-INCH HOOK AND SPACED 4 FEET ON CENTERS. PROVIDE SILL BOLTS AT A DISTANCE OF 6 INCHED FROM EACH END OF THE SHEAR WALL. CORNER AND SPLICE PROVIDE A MINIMUM OF 2 BOLTS PER SILL PLATE.

CONCRETE ACCESSORIES - ADHESIVE ANCHORS (RE 500 - SD, ESR-2322), EXPANSION BOLTS (HILTI KB-TZ, ESR-1917) AND POWDER-DRIVEN FASTENERS (HILTI X-U, ESR-2269) SHALL BE AS MANUFACTURED BY HILTI, INC., TULSA, OK. OR APPROVED EQUIVALENT. THESE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.

E. <u>CONCRETE UNIT MASONRY</u>

- E1. CONCRETE MASONRY UNITS (CMU) SHALL BE HOLLOW CLOSED, SINGLE OR DOUBLE OPEN END TYPE. ALL CMU SHALL CONFORM TO ASTM C-90, GRADE N, TYPE 1, AND HAVE AN ULTIMATE COMPRESSIVE STRENGTH (F'm) = 1,500 PSI. WHEN PLACED, THE CMU SHALL HAVE CURED FOR NOT LESS THAN 28 DAYS. DO NOT USE CHIPPED OR CRACKED CMU. PROMPTLY REMOVE ANY CHIPPED OR CRACKED CMU IF DISCOVERED IN A FINISHED WALL. AND REPLACE THEM WITH NEW CMU TO THE SATISFACTION OF THE STRUCTURAL ENGINEER.
- E2. CMU SHALL BE LAID IN RUNNING BOND. PROVIDE FULL INTERSECTING BOND AT CORNERS AND AT WALL INTERSECTIONS. PROVIDE SPECIAL PILASTER UNITS AT PILASTERS, OR BUILD PILASTERS USING FACE SHELLS ONLY; BRACE AS NECESSARY DURING GROUT PLACEMENT.
- MORTAR SHALL BE TYPE S, THAT WILL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF
- GROUT SHALL BE PEA GRAVEL MIX, 8 INCHES TO 10 INCHES SLUMP, AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS. IF TRANSIT-MIX GROUT IS NOT PLACED IN THE FINAL POSITION WITHIN 11/2 HOURS AFTER WATER IS FIRST ADDED TO THE BATCH. IT SHALL BE REJECTED.

GROUT SOLID ALL CELLS CONTAINING REINFURCEMENT, ANCHOR BOLTS OR OTHER EMBEDDED ITEMS.

- CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE I OR TYPE II AND SHALL BE ENTIRELY OF ONE MANUFACTURER.
- WATER USED FOR GROUT AND MORTAR SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNTS OF ACIDS, SALTS, ALKALIES AND ORGANIC MATERIAL.
- E7. SAND FOR MORTAR SHALL CONFORM TO ASTM C-404, TABLE 1, COARSE AGGREGATE.
- E8. QUICKLIME SHALL CONFORM TO ASTM C-S.
- E9. WHERE GROUT POUR EXCEEDS 4 FEET IN HEIGHT, CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF ALL CELLS CONTAINING VERTICAL REINFORCEMENT.
- E10. ALL HORIZONTAL REINFORCING SHALL BE IN BOND BEAM UNITS AND AGAINST VERTICAL
- E11. VERTICAL BARS SHALL BE ACCURATELY AND POSITIVELY HELD IN PLACE BEFORE SETTING BLOCKS. BARS MAY BE DOWELLED AT THE TOP OF FOOTING ONLY, UNLESS OTHERWISE

VERTICAL BARS AT CORNERS AND JAMBS AT OPENINGS, ETC., SHALL BE ONE CONTINUOUS LENGTH WITHOUT SPLICE. PROPER VERTICAL ALIGNMENT OF REINFORCING STEEL AND CMU BLOCKS MUST BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE NOTED.

- E12. REINFORCING SHALL BE FULLY EMBEDDED IN THE GROUT. VERTICAL REINFORCING STEEL BARS SHALL IN PLACE PRIOR TO LAYING THE CMU WALL.
- E13. WHEN GROUTING IS TO BE STOPPED FOR A PERIOD OF ONE (1) HOUR OR LONGER, CREATE A HORIZONTAL CONSTRUCTION JOINT BY STOPPING THE GROUT POUR ONE AND A HALF (11/2) INCHES BELOW THE UPPERMOST CMU COURSE.
- E14. ALL MASONRY SHALL BE LAID TO MAINTAIN AN UNINTERRUPTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED WITH GROUT. THE VERTICAL ALIGNMENT SHALL MAINTAIN A CLEAR. UNOBSTRUCTED VERTICAL FLUE MEASURING NOT LESS THAN 3 INCHES BY 3 INCHES.
- E15. EXCEPT AS SHOWN ON THE DRAWINGS, NO PLUMBING PIPE OR CHASE SHALL BE EMBEDDED IN CMU WALLS OR PARTITIONS.
- E16.- CMU WALLS SHALL BE CURED BY DAMPING FOR FIVE (5) DAYS

E17. CMU REINFORCING LAPS SHALL BE AS INDICATED IN THE TABLE BELOW:

BAR SIZE	CORNER & END WALLS	OTHER PLACES
NO. 4	25 INCHES	18 INCHES
NO. 5	38 INCHES	27 INCHES
NO. 6	45 INCHES	33 INCHES
NO.7 .	53 INCHES	38 INCHES
NO. 8	60 INCHES	43 INCHES

STRUCTURAL STEEL

MATERIAL FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE THE AMERICAN SOCIETY FOR MATERIALS AND TESTING (ASTM) SPECIFICATIONS AS LISTED BELOW:

•	WIDE FLANGE COLUMNS:	ASTM A572,	Fy = 50 KSI
•	OTHER STRUCTURAL STEEL:	ASTM A36,	Fy = 36 KSI
•	STEEL TUBING:	ASTM A500, GRADE B.	Fy = 46 KSI
•	PIPE:	ASTM A53, GRADE B.	Fy = 35 KSI
•	HIGH STRENGTH BOLTS:	,	ASTM A325
•	OTHER BOLTS:	**	ASTM A307
• ,	ANCHOR BOLTS:	•	ASTM A307

- FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE CURRENT EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- WELDING SHALL BE BY CERTIFIED WELDERS IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE - STEEL (ANSI/AWS D1.1-86)" AND AWS "STANDARD QUALIFICATIONS PROCEDURE".
- ARC WELDING ELECTRODES SHALL BE E70 SERIES FOR MANUAL WELDING, AND GRADE \$A-1 OR SA-2 FOR SUBMERGED ARC WELDING. ALL FIELD WELDING SHALL HAVE SPECIAL
- TEN PERCENT (10%) OF ALL FULL PENETRATION WELDS SHALL BE TESTED WITH X-RAY OR ULTRASONICALLY UNDER THE SUPERVISION OF AN INSPECTOR APPROVED BY THE OWNER.

WOOD FRAMING

- GENERAL WOOD FRAMING SHALL BE IN ACCORDANCE WITH 2007 EDITION OF THE CBC, AND THE STANDARD PRACTICES RECOMMENDED BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) AND WEST COAST LUMBER ASSOCIATION (WCLA) GRADING.
- WORKMANSHIP ALL ROUGH CARPENTRY SHALL PRODUCE JOINTS TRUE AND TIGHT AND WELL NAILED WITH MEMBERS ASSEMBLED IN ACCORDANCE WITH THE DRAWINGS AND WITH ALL APPLICABLE BUILDING CODES. SHIMMING OF SILLS, JOISTS, SHORT STUDS, TRIMMERS, HEADERS. OR OTHER FRAMING MEMBERS SHALL NOT BE PERMITTED. ALL WALLS AND PARTITIONS SHALL BE STRAIGHT. PLUMB AND ACCURATELY LOCATED. CAREFULLY SELECT ALL STRUCTURAL MEMBERS. INDIVIDUAL MEMBERS SHALL BE SELECTED SO THAT KNOTS AND VISIBLE MINOR DEFECTS WILL NOT INTERFERE WITH THE INSTALLATION OF BOLTS, OR PROPER NAILING OR THE MAKING OF SOUND CONNECTIONS. LUMBER MAY BE REJECTED BY THE STRUCTURAL ENGINEER FOR EXCESSIVE WARP, TWIST, BOW, OR COOK, OR FOR MILDEW, FUNGUS OR MOLD, AS WELL AS, FOR IMPROPER GRADE MARKING. DEFECTS WHICH RENDER A PIECE INCAPABLE OF SERVING ITS INTENDED FUNCTION SHALL BE DISCARDED.
- THE MAXIMUM MOISTURE CONTENT OF STRUCTURAL WOOD FRAMING MEMBERS SHALL NOT EXCEED NINETEEN PERCENT (19%).
- G4. WOOD IN CONTACT WITH MASONRY OR CONCRETE OR PERMANENTLY EXPOSED TO THE WEATHER SHALL BE PRESSURE TREATED AND MARKED WITH THE AMERICAN WOOD PRODUCERS BUREAU (AWBP) MARK OR SHALL BE FOUNDATION GRADE REDWOOD.

KEEP ALL UNTREATED WOOD MINIMUM HALF AN INCH (1/2") AWAY FROM CONCRETE OR

- <u>SIZING AND SURFACING EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE, ALL LUMBER</u> SHALL BE MILL SIZED AND SURFACED ON ALL FOUR SIDES. LUMBER SHALL BE SINGLE-LÉNGTH PIECES FROM STRAIGHT STOCK FREE FROM WARP AND CUP. SPLICING SHALL NOT BE PERMITTED EXCEPT WHERE SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.
- UNLESS OTHERWISE NOTED ON THE DRAWINGS, FRAMING MEMBERS 3 X AND SMALLER, AND 4 X POSTS SHALL BE DOUGLAS FIR. GRADE NO. 2. FRAMING MEMBERS 4 X AND LARGER SHALL BE DOUGLAS FIR, GRADE NO. 1. EXCEPTION 4 X HEADERS MAY BE DOUGLAS FIR GRADE NO 2.
- NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
- INTERIOR STUDS THAT ARE 14 FEET OR LESS IN HEIGHT SHALL BE DOUGLAS FIR CONSTRUCTION GRADE AND BETTER. INTERIOR STUDS THAT ARE MORE THAN 14 FEET IN
- HEIGHT SHALL BE DOUGLAS FIR GRADE NO. 2. STUD SPACING SHALL BE 16 INCHES ON CENTERS, UNLESS OTHERWISE NOTED.
- AT WALLS SUPPORTING TRUSSES, PROVIDE A STUD DIRECTLY BELOW EACH TRUSS; PROVIDE ADDITIONAL STUD AS NECESSARY.
- PROVIDE STUDS OR POSTS SUPPORTING THE FULL WIDTH OF BEAMS ENTERING WALLS; PROVIDE SOLID POSTS AND BLOCKING DOWN TO THE FOUNDATION.

PROVIDE DOUBLE JOIST OR TRUSS UNDER PARTITIONS PARALLEL TO THE JOISTS.

PROVIDE HALF-INCH (1/2") GAP BETWEEN THE TOP OF NON-BEARING PARTITIONS, AND THE BOTTOM OF TRUSSES; PROVIDE A CONNECTION TO BRACE THE PARTITION WHICH WILL ALLOW HALF INCH (½") VERTICAL MOVEMENT BOTH UPWARD AND DOWNWARD.

PROVIDE SOLID BLOCKING BETWEEN JOISTS AT PARTITIONS, GIRDERS, BEARING WALLS, AND

SHEAR WALLS - BLOCK AT PLYWOOD JOINTS WITH BLOCKING OF SAME SIZE AS STUDS. EDGE-NAIL SHEATHING TO STUDS AT HOLD-DOWNS.

STRUCTURALLY EQUIVALENT TO SHEAR WALL SHEATHING ALL SHEATHING FOR ROOF, FLOOR AND WALLS, SHALL BE AMERICAN PLYWOOD ASSOCIATION

EXTEND SHEAR WALLS THROUGH FLOOR AND ROOF SYSTEMS WITH BLOCKING THAT IS

- (APA) RATED SHEATHING, EXPOSURE 1, AND SHALL BE IDENTIFIED WITH THE APPROPRIATE TRADEMARK OF THE APA. SHEATHING SHALL MEET THE REQUIREMENTS OF THE CURRENT EDITION OF U.S. PRODUCT STANDARD PS-1. OR ONE OF THE APA PERFORMANCE STANDARDS. SHEATHING AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR CLASS.
- G12. FLOOR AND ROOF SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN PERPENDICULAR TO THE SUPPORTS, AND THE LONG DIMENSION OF THE PANEL CONTINUOUS OVER TWO (2) OR MORE SPANS. STAGGER PANELS 4 FEET LENGTHWISE, UNLESS OTHERWISE NOTED. ALLOW 1/8 INCH SPACING AT PANEL ENDS AND 1/4 INCH AT PANEL EDGES. FLOOR SHEATHING SHALL BE 3/4 INCH MINIMUM PLYWOOD, APA RATED STURD-I-FLOOR WITH A SPAN RATING OF 24; ROOF CHEATHING SHALL BE 1/2 INCH MINIMUM PLYWOOD WITH A MINIMUM PANEL SPAN RATING OF 32/12.

MINIMUM NAILING SHALL CONFORM TO PLYWOOD DIAPHRAGM SCHEDULE.

GLUE PLYWOOD TO ALL SUPPORTS, INCLUDING BLOCKING, WITH 1/4 INCH MINIMUM BEADS OF APPROVED ADHESIVE MEETING APA SPECIFICATION AFG-01 AND APPLIED PER NER-108.

- G13. PLYWOOD FLOOR, ROOF AND WALL SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVEN FLUSH. THE OUTER LAYER OF SHEATHING SHALL NOT BE
- FRACTURED BY OVERDRIVING THE NAILS. G14. ALL FRAMING HARDWARE SHALL BE "STRONG-TIE" AS MANUFACTURED BY SIMPSON COMPANY, OR AN APPROVED EQUAL. AT LOCATIONS EXPOSED TO WEATHER, PROVIDE

CORROSION-RESISTANT HARDWARE WOOD FRAMING MEMBERS NOT RESTING ON, OR FRAMED OVER THEIR SUPPORTS SHALL BE

SUPPORTED BY "SIMPSON STRONG-TIE" JOIST HANGERS.

G15. BOLTS IN WOOD FRAMING SHALL BE STANDARD MACHINE BOLTS CONFORMING TO ASTM 307. PROVIDE MALLEABLE IRON WASHERS UNDER HEAD AND NUT OF BOLTS AND LAG SCREWS BEARING ON WOOD. UNLESS OTHERWISE NOTED, BOLT HOLES SHALL BE NOMINAL DIAMETER OF THE BOLT PLUS 1/16 INCH. RETIGHTEN ALL BOLTS BEFORE CLOSING IN. FASTENERS FOR PRESSURE TREATED WOOD SHALL BE HOT-DIPPED ZINC

COATED, GALVANIZED, STAINLESS STEEL, SILICON BRONZE OR COPPER

H. <u>PREFABRICATED TRUSSES</u>

- HI. THE FABRICATOR OF THE PREFABRICATED TRUSSES SHALL SUBMIT TRUSS DESIGN CALCULATIONS AND SHOP DRAWINGS FOR ALL TRUSSES. THAT ARE STAMPED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER, TO THE BUILDING DEPARTMENT FOR APPROVAL. CALCULATIONS SHALL INCLUDE ALL STRESSES AND DEFLECTIONS DUE TO DEAD AND LIVE LOADS. SHOP DRAWINGS SHALL INCLUDE THE LAYOUT OF THE TRUSSES, SIZE OF MEMBERS AND CONNECTION DETAILS.
- H2. THE MAXIMUM DEFLECTION OF ROOF TRUSSES DUE TO DEAD AND LIVE LOADS SHALL NOT EXCEED L/240, AND THE MAXIMUM DEFLECTION FOR FLOOR TRUSSES DUE TO LIVE LOAD SHALL NOT EXCEED L/360.
- THE DISTRIBUTED LOADS SHALL BE:

MEMBER	ROOF TRUSS	FLOOR TRUSS
TOP CHORD	D.L. 6.0 PSF* L.L. 16.0 PSF	10.5 PSF 40.0 PSF 100.0 PSF CORRIDOR
BOTTOM CHODS	D1 : 70 000	FARSE

L.L. 10.0 PSF 10.0 PSF * USE 16.0 PSF FOR CONCRETE TILE ROOFING

TOP AND BOTTOM CHORD LIVE LOADS MAY NOT BE APPLIED SIMULTANEOUSLY. ONE POINT LOAD OF 250 LBS SHALL BE APPLIED TO EACH TRUSS.

GLU-LAMINATED LUMBER

- GLU-LAMINATED (GLU-LAM) LUMBER SHALL BE Fb = 2,400 PSI, Fv = 165 PSI AND E = 1,800,000 PSI. ADHESIVE SHALL BE SUITABLE FOR WET AREAS. LAMINATIONS SHALL BE COMBINATION FABRICATED IN ACCORDANCE WITH AITC PS 56.73. FOR SINGLE SPAN MEMBERS USE 24F-V4 DF/DF; FOR CONTINUOUS OR CANTILEVERED OVER SUPPORTS USE 24F-V8 DF/DF, USE PRESSURE TREATED LUMBER FOR GLU-LAM MEMBERS CONTINUOUSLY EXPOSED TO.
- FABRICATION SHALL BE BY A LICENSED FABRICATOR. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND AITC CERTIFICATION SHALL BE REQUIRED FOR ALL GLU-LAM MEMBERS.
- PRIOR TO INSTALLATION, THE CONTRACTOR SHALL PROVIDE A CERTIFICATE OF COMPLIANCE FOR ALL GLU-LAM BEAMS TO THE BUILDING DEPARTMENT AND THE STRUCTURAL ENGINEER
- GLU-LAM BEAMS SHALL NOT BE NOTCHED DRILLED, TAPERED, DAPPED OR CUT IN ANYWAY EXCEPT AS SHOWN ON THE DRAWINGS.

SHOP DRAWINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE SHOP DRAWINGS AND CONSTRUCTION IS IN CONFORMANCE WITH THE LATEST STRUCTURAL DRAWINGS.

THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW TO DETERMINE GENERAL COMPLIANCE WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS REVIEW DOES NOT CERTIFY THAT THE SHOP DRAWINGS ARE IN COMPLIANCE WITH THE LATEST ARCHITECTURAL AND ENGINEERING DRAWINGS.

SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW OF TH FOLLOWING STRUCTURAL WORK ITEMS:

- REINFORCING STEEL
- **GLU-LAM BEAMS AND OTHER MEMBERS**
- STRUCTURAL STEEL WORK
- FLOOR AND ROOF TRUSSES PRE-FABRICATED STAIRS

FABRICATION SHALL NOT PROCEED UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED BY THE BUILDING DEPARTMENT AND THE STRUCTURAL ENGINEER.

CONSTRUCTION INSPECTION

GRADING. DRAINAGE, PAD PREPARATION a. Henry Justiniano & Associates (Soils Eng.)

3. STRUCTURAL REINFORCING STEEL a. B.R. Govindarao (Engineer of Record) 23. DETEXTED SUBMITTAL HOR FOLDING PARTITIONS ATTACHMENT & BEAMSIZE

4 EPOXY INSTALLED ANCHOR AND HOLD DOWN BOLTS a. B.R. Govindarao (Engineer of Record)

5. MANUFACTURED TRUSSES a. B.R. Govindarao (Engineer of Record)

the Special Inspector, the Contractor and the Building City of Livermore Permit Center for Review and · Official. Approval prior to installation. Prior to final inspection, the structural observer shall

site visits have been made and identify any reported deficiencies that have not been resolved.

Contractor in responsible charge to submit a written statement of responsibility to the Owner and Building Official (City of Livermore Permit Center) for: -1. Acknowledgement of awareness of the special

requirement contained in the statement of special 2. Acknowledgement that control will be exercised to obtain conformance with the construction documents approved by the Building Official.

3. Procedures for exercising control within the Contractor's organization, the method of, and frequency of reporting and the distribution of the reports; and 4. Identification and qualifications of the person(s) exercising such control and their position(s) in the

Automatic Sprinkler Systems as specified by Livermore Municipal Ordinance Observed deficiencies shall be reported to the Owner, Plans and Specifications shall be submitted to the

submit to the Building Official a written statement that Deferred Submittal: 1. Fire Sprinklers 2. Alarm system

organization.

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REVISIONS ... B

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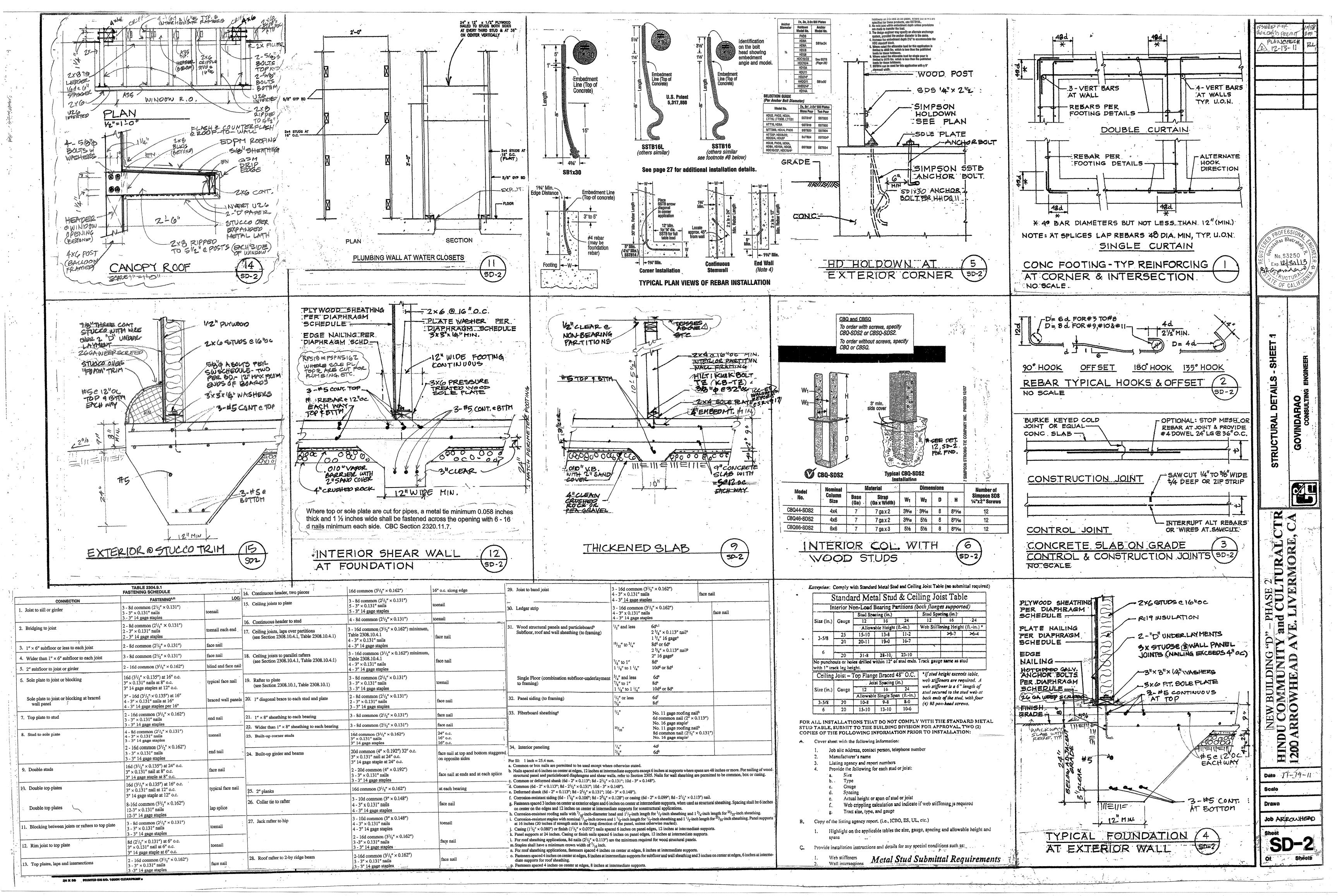
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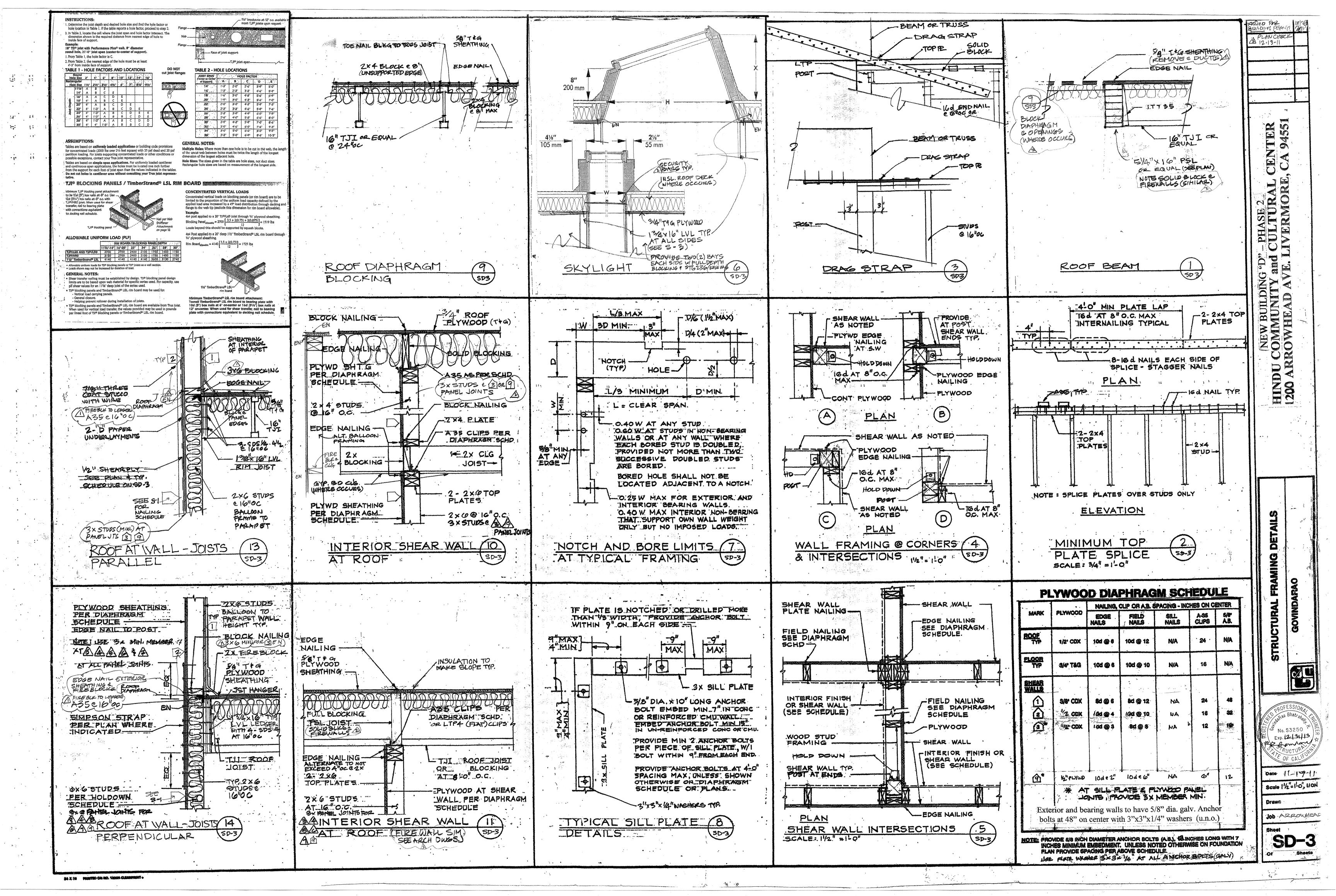
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3. Manufactured roof trusses 4. FOLDING PARTITION





construction equipment shall be operated between hours 9 a.m. to 4 p.m. Local requirements or neighbors' requests may change these operations. In all cases city ordinance shall be followed. . These construction bid documents are for general purposes only. They are not exhaustively detailed or fully specified. It is

the responsibility of the contractor to verify and resolve any questions with the engineer of record. It is the also the responsibility of the contractor to install all materials and equipment. The contractor is solely responsible for quality control and construction standards for this project. The drawings will indicate the existing items, the items that are to be demolished, the items that are to be refurbished and the items that are to remain. In all cases city ordinance shall be strictly

Contractor(s) shall be held responsible for the results of any errors, discrepancies, or omissions in the contract documents. 10. The owner (Hindu Cultural Community Center) will not be responsible for any unauthorized changes to or uses of the plans and specifications. All changes must be in writing and must be issued by the engineer-of-record who is the owner's

representative.

11. Any discrepancies shall be brought to the attention of engineer-of-record immediately prior to construction and resolved.

12. Written dimensions take precedence. Do not scale drawings.

13. All dimensions to and from are to the face of stud, unless noted otherwise.

14. Where discrepancies between the soil report and project drawings occur, contact the engineer-of-record.

15. Pad grade under buildings shall have positive slopes. Slopes shall be jute matted prior to landscaping to prevent soil erosion. 16. The following items shall be provided to the Building Inspector after verification by the registered professional engineer in the form of a stamped and signed professional report and submitted at the time of inspection.

a. A surveyor must verify building setbacks to property lines and also pad elevation(s) before the time of the foundation

b. When fill is employed under the buildings, a soils engineer must verify the pad compaction before the foundation

c. A surveyor must verify finish floor elevations before shear walls and roof inspection.

d. A surveyor must verify the highest elevation of the highest point of the roof before the frame inspection.

e. For other inspection requirements see civil, structural, mechanical, plumbing, electrical and landscape drawings.

17. See civil drawings for existing and proposed grading, utilities, additional structures, proposed drainage and erosion control

18. See landscape drawings for landscape features.

19. In the event of conflicts between pertinent codes and specifications and the drawings, the most stringent requirements shall

20. Water and/or dust palliatives shall be applied during construction.

21. Contractor shall reimburse Hindu Cultural Community Center (HCCC) for all utility bills used for construction.

22. All dimensions noted "verify" are to be checked by the contractor prior to construction and report any variances to the engineer-of-record.

23. The General Contractor or his representative shall be at site at all times during construction. The General Contractor or his representative is solely responsible for: (a) coordination of drawings with all trades and professionals and (b) continuous safety for all people and property at all times.

24. The Contractor shall defend, indemnify and hold the owner and the design professionals harmless from and any all liability, real or alleged, in connection with the project, including but not limited to attorney fees and costs. The Owner & design professionals shall be named as additional insureds on the contractor's liability insurance.

25. The Contractor shall carry a surety bond, the bond amount shall not be less that the total contract amount.

26. Contractor to furnish the owner with all warranties and warranty information.

27. Contractor shall prepare a construction schedule and shall submit it to the Owner. "Owner" is Hindu Community and Cultural Center, Livermore.

28. The Owner and the Contractor will enter into a contract which will specify various terms including a payment schedule along with a finishing schedule. Ten percent of each payment will be retained until the project is completed and will be paid to the Contractor after the Occupancy Permit from City and approval by the Owner. 29. The Contractor at all times shall keep an approved stamped wet-signed set of the construction documents on site for

30. Always use the latest set of construction documents.

PROJECT DATA & CODE ANALYSIS: ASSESSORS PARCEL # 099B-5125-005-06 CONDITIONAL USE PERMIT 09-001 **ADDRESS** 1200 ARROWHEAD AVENUE SITE AREA 3,32,662 SF OCCUPANCY CLASSIFICATION BD. PHASE 1-B BUILDING 'D' OCCUPANCY B/A3 CONSTRUCTION TYPE TYPE VB - (WITH SPRINKLERS) PROPOSED AREA FOR = 7,756 SFPHASE 1-B BUILDING 'D' TOTAL ALLOWABLE AREA FOR 'B' = BASIC ALLOWABLE AREA + AREA INCREASE FOR SPRINKLERS OF 300% $= 9,000SQ.FT.+(3X9000)SQ.F^{-1}$ = 36,000SQ.FT. NO. OF STORIES = CLO. HEIGHT = 40' MAX. TOTAL OCCUPANT LOAD = DEFERRED SUBMITTALS: AUTOMATIC FIRE SPRINKLER SYSTEM, FIRE ALARM SYSTEM, MANUFACTURED ROOF TRUSSES & DETAILED UNDERGROUND FIRE LINE SHOP DRAWINGS AND FOLDING PARTITION SHOP DRAWINGS DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL IN CHARGE WHO SHALL REVIEW THEM & FORWARD DBL. THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT DEG. THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING WITHOUT ANY CORRECTIONS THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE BUILDING OFFICIAL HAS APPROVED THEIR DESIGN AND SUBMITTAL DOCUMENTS. CBC APPENDIX CHAPTER 1, SECTION DR. 106.3.4.2. CITY OF LIVERMORE MUNICIPAL CODE, SECTION 15.02.170. 1. THE PROJECT STRUCTURAL ENGINEER OF RECORD MUST REVIEW THE SPRINKLER SYSTEM SUBMITTAL PRIOR TO SUBMITTING TO THE EA. CITY. THE EOR MUST PROVIDE A STAMPED AND SIGNED LETTER TO THE CITY APPROVING BOTH THE STRUCTURAL ADEQUACY OF THE BUILDING TO SUPPORT THE SPRINKLER SYSTEM AND SPECIFICALLY APPROVES CONNECTION DETAILS OF THE SPRINKLER SYSTEM TO THE STRUCTURAL ELEMENTS, REFERENCING THE SPECIFIC FIRE PROTECTION DRAWINGS. 2. THE PEDESTRIAN WALKWAY MUST BE SPRINKLERED AS WELL AS THE BUILDING, UNLESS SPECIFICALLY EXEMPTED BY THE LIVERMORE PLEASANTON FIRE MARSHAL. PLANS & SPECIFICATIONS SHALL BE SUBMITTED TO THE CITY OF LIVERMORE PERMIT CENTER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. ALL FIRE PROTECTION FDN. PIPING INCLUDING THE FIRE SPRINKLER RISER, SHALL BE LOCATED INSIDE AT AN APPROVED INDOOR LOCATION. SPECIAL INSPECTION/ 1. GRADING, DRAINAGE, PAD PREPARATION 2. STRUCTURAL REINFORCING STEEL 3. STRUCTURAL FRAMING & SHEER WALL BY B.R. GOVINDRAO (ENGINEER OF RECORD) 4. EPOXY INSTALLED ANCHOR & HOLD DOWN BOLTS BY B.R. GOVINDRAO (ENGINEER OF RECORD) 5. STRUCTURAL WELDING BY FABRICATOR'S SHOP WELDING INSPECTOR TO BE APPROVED BY CITY OF LIVERMORE 6. CONCRETE TESTING FOR STRUCTURAL COLUMNS, INCL. REINFORCING STEEL BY KORBMACHER ENGINEERING INC. (925-454-9033)GEN. 7. MANUFACTURÉD TRUSSES BY B.R.GOVINDRAO (ENGINEER OF RECORD)

ACC **ACCESSIBLE** GROUND S.D. SOAP DISPENSER GND. ACCOUS. ACCOUSTICAL GYPSUM WALL BOARD S.N.D. SANITARY NAPKIN DISPOSAL ACCOUSTICAL CEILING TILE GYP. BD. GYPSUM BOARD SEE STRUCTURAL DRAWINGS AREA DRAIN HOSE BIB SEC. SECURITY **ADJUSTABLE** HOLLOW CORE SECT. SECTION AFF ABOVE FINISHED FLOOR S.F. HOLD DOWN SQUARE FEET AGGR. **AGGREGATE HDWE HARDWARE** SH. SHELF ALT. SHEET **ALTERNATE** HDR. HEADER SHEATHING ALUM. ALUMINUM HDWD. **HARDWOOD** SIM. SIMILAR APPROX. **APPROXIMATE** HDWR. **HARDWARE** SOL. SOLID ARCHITECT, ARCHITECTURAL H.M. HOLLOW METAL SPEC. SPECIFICATION BOARD HORIZ. HORIZONTAL SQUARE BET. BETWEEN S/S STAINLESS STEEL BLDG. BUILDING HEIGHT STD. STANDARD BLKG. BLOCKING HEATING VENTILATING STG STORAGE BOTTOM OF BEAM AIR CONDITIONING STL. STEEL воттом HOT WATER STRUCTURAL BOTTOM OF WALL INSIDE DIMENSION / DIAMETER **SUSPENDED** B.U.R. BUILT UP ROOF INSIDE / INTERIOR FACE SYMMETRICAL BSMT. BASEMENT **TREAD** BOTTOM OF WALL INCL. INCLUDING TOWEL BAR C.A.R. COLD AIR RETURN INFORMATION TO BE DETERMINED CAB. CABINET INSULATION T.D.L. TIGHT DRAIN LINE C/C CENTER TO CENTER **JANITOR** TEL. **TELEPHONE** CEM. CEMENT JOB CAPTAIN TEMP. **TEMPERED** CER. CERAMIC JOIST TONGUE AND GROOVE C.F.M CUBIC FT. PER MINUTE JOINT THERMOSTAT CENTER LINE KITCHEN CLG. CEILING LAM. LAMINATE T.O.C. TOP OF CURB CLOSET LAVATORY T.O.P. TOP OF PLATE CLR. CLEAR / CLEARANCE LANDLORD TOP OF WALL CONCRETE MASONRY UNIT C.M.U. MEDICINE CABINE TOILET PAPER DISPENSER CENTER MATL. MATERIAL T. S. TOP OF SLAB COL. COLUMN T.S.C.D. TOILET SEAT COVER DISPENSER CONCRETE MECHANICAL CONTRACTOR TYPICAL CONST. CONSTRUCTION MINIMUM U/ UNDER MIR. CONT. CONTINUOUS MIRROR UNFINISHED **MISCELLANEOUS** CERAMIC TILE UNLESS OTHERWISE NOTED CTR. COUNTER **MECHANICAL** VERTICAL COLD WATER MECHANICAL ELECTRICAL VERIFY IN FIELD V.I.F DOUBLE AND PLUMBING WITH DEGREES MANUFACTURER WARM AIR REGISTER **DEPARTMENT** MOULDING WATER CLOSET DETAIL METAL WD. WOOD DIAM., DIAMETER MATERIAL WDW. WINDOW DIM. **DIMENSION** NEW WATER HEATER DISP. DISPOSAL OR DISPENSER NATURAL WITHOUT **NECESSARY** WEATHER PROTECTED DOOR NOT INCLUDED IN CONTRACT WT. WEIGHT DOWNSPOUT NUMBER WWM. **DISHWASHER** NOT TO SCALE YR. DRAWING(S) OVER AND DRAWER OVERALL **EXISTING** OBSCURE CENTERLINE EACH OCCUPANCY OCC. PARALLEL ELECTRICAL CONTRACTOR ON CENTER PERPENDICULAR ELEC. ELECTRICAL OUTSIDE DIAMETER ELEVATION OUTSIDE FACE **ELEVATOR** ELEV. OFFICE **ENCLOSURE** OPG. **OPENING** EQUAL EQUIPMENT PERFORATED DRAIN LINE **EXISTING** PLUMBING CONTRACTOR EXPOSED PERFORATED **EXTERIOR** PLAS. PLASTER FLOOR DRAIN PL. LAM. PLASTIC LAMINATE FOUNDATION PL. PLATE OR PROPERTY LINE FINISH FLOOR PLYWD. PLYWOOD FINISHED GRADE PAIR **FINISH** PRECAST FLASHING PAINT **FLOOR** PAPER TOWEL DISPENSER **FLUORESCENT** QUANTITY FACE OF CABINET QUARRY TILE FACE OF GLAZING REMODEL F.0.S. FACE OF STUD RADIUS FRAMING ROOF DRAIN FIBERGLASS REINFORCED PANEL RADIUS **FIREPROOF** RECEPTACLE FOOT/ FEET REFERENCE FOOTING REFRIGERATOR **FURRING** REQUIRED GAUGE REVISED / REVISION GALVANIZED REGISTER GRAB BAR ROBE HOOK GENERAL CONTRACTOR ROOM GENERAL ROUGH OPENING GROUND FAULT INTERRUPTER RETAINING WALL GLASS, GLAZING RWD. REDWOOD GLUE LAM BEAM RAIN WATER LEADER **WALL REGISTER** FLOOR REGISTER, CEILING REGISTER CONTINUOUS FRAMING TOP OF SUB FLOOR ELEV.

GLU.LAM. GLUE LAMINATED

S.C.

SOLID CORE

ANCHOR BOLT

ARCHITECTURAL DRAWINGS COVER SHEET TITLE SHEET LIVERMORE SECURITY ORDINANCE A - 1.0SITE PLAN FLOOR PLAN, NOTES & DETAIL A - 1.1REFLECTED CEILING PLAN & DETAILS ROOF PLAN & DETAIL A - 2.1ELEVATIONS BUILDING SECTIONS, INTERIOR FINISH SCHEDULE & DETAILS ENLARGED FLOOR PLAN, INTERIOR ELEVATIONS & DETAILS ACCESSIBLE DETAILS DOOR & WINDOW SCHEDULE, NOTES & DETAILS A-4.3 WALL DETAILS STRUCTURAL DRAWINGS FLOOR FOUNDATION PLAN FLOOR FRAMING PLAN TRUSS/ROOF FRAMING PLAN CEILING FRAMING PLAN GENERAL NOTES DETAIL SHEET FRAMING DETAILS **ELECTRICAL DRAWINGS** ELECTRICAL LEGEND, DRAWING INDEX, SCHEDULES DIAGRAMS & SCHEDULES ELECTRICAL SITE PLAN POWER & SIGNAL PLAN E-1.2 LIGHTING PLAN ELECTRICAL ROOF PLAN SPECIFICATIONS E - 2.1MECHANICAL DRAWINGS M-10.0 LEGEND, NOTES & DRAWING INDEX M-11.2 SCHEDULES SPECIFICATIONS M-13.0 MECHANICAL PLAN M-14.0 MECHANICAL ROOF PLAN M-15.0 DETAILS PLUMBING DRAWINGS P-10.0D PLUMBING LEGEND & GENERAL NOTES P-10.1D PLUMBING SCHEDULES P-11.1D PLUMBING RISER DIAGRAMS P-11.2D PLUMBING SPECIFICATIONS P-13.0D PLUMBING PLAN P-13.01D PLUMBING ENLARGED PLAN P-14.0D PLUMBING ROOF PLAN P-15.0D PLUMBING DETAILS **ENERGY COMPLIANCE** T-24.1 TITLE 24 COMPLIANCE FORMS T-24.2 TITLE 24 COMPLIANCE FORMS T-24.3 TITLE 24 COMPLIANCE FORMS T-24.4 TITLE 24 COMPLIANCE FORMS T-24.5 TITLE 24 COMPLIANCE FORMS

OBSERVED DEFICIENCIES SHALL BE REPORTED TO THE OWNER, THE SPECIAL INSPECTOR, THE CONTRACTOR AND THE BUILDING OFFICIAL PRIOR TO FINAL INSPECTION, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL, A WRITTEN STATEMENT THAT SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT HAVE NOT BEEN

CONTRACTOR IS RESPONSIBLE CHARGE TO SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND BUILDING OFFICIAL (CITY OF LIVERMORE PERMIT CENTER) FOR:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENT CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION 2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN

CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE 3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD OF, AND FREQUENCY OF REPORTING AND THE

DISTRIBUTION OF THE REPORTS AND 4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

AUTOMATIC SPRINKLER SYSTEMS AS SPECIFIED BY LIVERMORE MUNICIPAL ORDINANCE - PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE CITY OF LIVERMORE PERMIT CENTER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

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POST ABOVE FRAMING LEVEL

METAL HANGER

NORTH ARROW

ELEVATIONS - TOP: ELEVATION NUMBER BTM: SHEET NUMBER

CLG.HT CEILING HEIGHT

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REVISIONS

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IYER & ASSOCIATES

2011©IYER & ASSOCIATE

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REN. 02/28/2013

OF CALIF

1100 Montgomery Street SAN FRANCISCO, CA 94133

415 362-4937 (ÍYER) FAX 415 362-8158

12/14/11 DRAWN BY: PROJECT: ARROWHEAD

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Project Name HCC Bldg. D									Date 10/27/2
ANNUAL TOV ENERGY	Standa	rd f	Proposed	Compl					
Energy Component Space Heating	Desig	n 20.91	Design 7.33	<u>Mar</u>	gin 13.58	Hea	ting 🖢	44.70	
Space Cooling			TO THE RESERVE THE PROPERTY OF THE PARTY OF		****	Coo	ling		79
Indoor Fans		108.22	64.00		44.22		ans 🖥		20,72
Heat Rejection	<u> </u>	60.04	66.88		-6.85	Heat	2000		
Pumps & Misc.		0.00	0.00		0.00	Pur			
Domestic Hot Water	**************************************	0.00	0.00		0.00		HW		
		24.28	17.70		6.58	Ligh	200 M		X
Lighting	<u> </u>	65.96	49.95		16.01	Recepta	A STATE		
Receptacle		44.44	44,44		0.00	-	2000		
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Process Lighting		0.00	0.00		0.00	Process	Lig		
TOTALS	L	323.85	250.31		73.54				
Percent better than Star	ndard		22.7%	(22.7	% exclud	fing process)		
		Bl	UILDING	G CO	MPLIE	S			
GENERAL INFORMAT	ON								
						***************************************			***
Building Orientation	(E) 9) deg	Conditio	ned Floo	r Area			7,08	7 sqit.
Number of Stories		ab calesto and based a microsi	Uncond	itioned F	oor Area				g sqit.
Number of Systems	AND THE PROPERTY OF THE PROPER		Conditio	ned Fool	print Are	a		6,73	9 sqfL
Number of Zones	1	5	Natura	Gas Ava	lable On	Site		Ye	<u>s</u>]
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	Or	entation	Gross	Area		Glazing A	vea		Glazing Ratio
Front Elevation		(E)		630	sqft.		150	sqft.	23.8
Left Elevation	*****************	(S)	*********************	1,169	sqft.		192		16.4
Rear Elevation	**************************************	(W)		626	sqft.		168	sqlt.	26.8
Right Elevation	المناه والمناه والمناع والمناه والمناه والمناه والمناه والمناه والمناه والمناه والمناع	(N)		3,325		-		sqft.	4.3
7	Total	an North and American		5,750	saft.		THE PERSONAL PROPERTY.	sqtt.	11.4
Roof	Mary Company C	(he Nitonia konki, Tikali interneli entim	STREET,	8.002		ACTUAL CONTRACTOR OF THE PROPERTY OF THE PROPE	KE CHICKEN CONTRACTOR CONTRACTOR	sqft.	0.2
	Lauren et al.		management and a second			L			
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Prescriptive Lighting Po	wer Density		1.054	W/sqft.		0.799 V	//sqft.		arison only. Se
Prescriptive Envelope T	DV Energy	L	198,510			146,329		LTG-1	C for allowed L
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Remarks:							**********		

Project Name		E OF COMPLIAN			Part 3 c		Date	
HCC Bldg. D							10/2	7/2011
ZONE INFORMATION)N		Floor	inat	C+ul	Allow	ed LPD	Dran
			Floor Area	Inst. LPD	Ctrl. Credits	Area	Tailored	Proc. Loads
System Name	Zone Name	Occupancy Type	(sqft.)	(W/sf) ¹	(W/sf) ²	(W/sf) ³	(W/sf) ⁴	(W/sf
4C-D-4	Zone -4	Classroom, Lecture, Training	714	0.756				
	Zone- 4A	Corridor/Restroom/Support	440	0.341	0.085			
CU/ACC-D-2	Zone-7	Lounge, Recreation	213	0.845				
AC-D-5	Zone-5	Classroom, Lecture, Training	714	0.756				
	Zone- 5A	Corridor/Restroom/Support	242	0.744	0.1 30			
	Zone -5B	Corridor/Restroom/Support	314	1.433				
NC-D-2	Zone-2	Convention/Conference/Mee	1,077	0.836				
	Zone -2A	Corridor/Restroom/Support	314	1.433				
	Zone- 2B	Corridor/Restroom/Support	586	0.512	0.105			
AC-D-1	Zone-1	Classroom, Lecture, Training	1,034	0.870		****		
	Zone-1A	Electrical, Mechanical Room	40	1.500				
4C-D-3	Zone -3	Classroom, Lecture, Training	714	0.756				
CU/ACC-D-1	Zone 6	Lounge, Recreation	236	0.890				
CU/ACC-D-3	Zone 8	Lounge, Recreation	213	0.845				
CU/ACC-D-4	Zone 9	Lounge, Recreation	236	0.890				

Notes: 1. See LTG-10	<u> </u>	2. See LTG-2C 3. See LTG-3	3 4. Se	e LTG-4C	ttonae at	La roquiro	special docume	entation
	sterisk, see LTG-1-C by others) NDITIONS COMPLIAN	(by others)			Items at	ove require :	special docum	on italion
The local enforcement a justification and docum determines the adequace	gency should pay special a entation, and special verific	attention to the items specified cation to be used with the perf may reject a building or desig	ormance	approach.	The local e	nforcemen	t agency	
The HVAC System AC-D-	4 includes Demand Control \	entilation per Standards Sectior	121.					
The Zone Zone -4 has a N	lorth/East/South Display Peri	meter Credit of 52 ft.						
The HVAC System CU/AC	CC-D-2 includes Demand Col	ntroi Ventilation per Standards S	ection 121					
The Zone Zone-7 has a N	orth/East/South Display Peri	meter Credit of 52 ft.						
The HVAC System AC-D-	5 includes Demand Control \	entilation per Standards Sectior	121.					
The Zone Zone-5 has a N	orth/East/South Display Peri	neter Credit of 40 ft.						
The HVAC System AC-D-	2 includes Demand Control \	entilation per Standards Section	121.					
The HVAC System AC-D-	1 includes Demand Control \	/entilation per Standards Section	121.			······································		
The Zone Zone-1 has a N	orth/East/South Display Peri	neter Credit of 40 ft.						
	North/East/South Display Pe							
······		/entilation per Standards Section	121					
	lorth/East/South Display Peri							
		ntrol Ventilation per Standards S	ection 121	T				
The exceptional feature documentation for their	s listed in this performance use have been provided by	approach application have s			wed. Ad eq	uate writte	n jus tificatio	on and
Authorized Signature of	stamp							
EnergyPro 5.1 by Energy	Soft User Number: 28	49 RunCode: 2011-10	-27T11:4	5:56 ID: F	3ld. D		Pai	ge 5 of 5

Floor Inst. Ctrl. Allowed LPD Proc Area LPD Credits Area Tailored Load	HCC Bidg. D ZONE INFORMATION	N.				***************************************		70/2	7/201
System Name Zone Name Cocupancy Type Area LPD (soft) W/st) W/st)	ZOIL IN ONWATIO			Floor	Inst	Ctrl	Allow	ed I PD	Proc
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The exceptional features listed in this performance approach application have specifically been reviewed. Adequate written justification and documentation for their use have been provided by the applicant.							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
The exceptional features listed in this performance approach application have specifically been reviewed. Adequate written justification and documentation for their use have been provided by the applicant.									

	TIFICATE OF CO FIELD INSPECT					CKLI	СТ	(F	Part 1	1 of 3)	ENV	-1(
Project N		IONE	.IYE	nuı	CHE	CKLI	<u> </u>					Date	-
HCC B												10/27/	
Project A	ddress <i>rrowhead Ave. Liver</i>	more			1	Climate Zo	ne 12	\$		ond. Floor 7,087	Area Ad	dition Floo <i>n/a</i>	ar Ai
	AL INFORMATION	111010			L			L		,,,,,,,			
Building		Nonres	identi	al		☐ High	n-Rise Res	sidential		Hotel/N	lotel Gues	t Room	
	ools (Public School)	Reloca	table	Public :	School	Ø C	onditioned	Spaces		п	Jnconditio	ned Spa	ces
	rlight Area for Large Enclos	Blag.		00.42 //	f abaale			•	uhmitta				
	of Construction:				I CHECK	□ Add		-40 Willi S		Alteration			
				CHOIT			rall Envelo				ditioned (fil	affiday	i+\
	ch of Compliance:			90 dea	T	M Ove	ran Enver			Oncone	ationed (III	e amuav	11.)
FIONI O	nemation. N, E, S, W Of III				TION	ENED	GY CH	ECKLI	eT.				
OBAGU	E SURFACE DETAILS	FIEL	D III	SPEC		LATION	GION	EUNLI	31				
OFAGO	E SURFACE DETAILS				11430		1	T					Т
		Area (ft²)	Orlentation 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	Pass	
Tag/ID	Assembly Type	4	oz		Om	ш >	шш	=>			00		+
1	Wali	217	(N)	0.069	 					1.3.1-A6	New	<u> </u>	4
2	Roof	714	(N)	0.025	 		 			4.2.1-A21	New	<u> </u>	\downarrow
3	Sleb	714	· · /	0.730	 	 				4.4.7-A1	New		+
4	Wall	26		0.069	+	 	-			4.3.1-A6	New		╀
5	Slab	440	- ` ´ -	0.730	+	+	-			4.4.7-A1 4.2.1-A21	New		+
6	Roof	440	├ `∸	0.025	 	 	-			1.2.1-A21 4.3.1-A6		┵	+
7	Wall	96	ŀ∸∸	0.069						4.3.1-A0 4.2.1-A21	New	 	+
8	Roof	213	(N)	0.028	/ K-30	'	-			1.2.1-7121	7,40,44		+
					 							$+\frac{1}{6}$	十
2. If Fail,	structions in the Nonresidenti then describe on Page 2 of the	e Inspectio	on Che	Anual, packlist Fo	Orientation N, E, S, W	Max U-Factor	C-Factor Source	Max (R)SHGC	A fail o	T g	.		
Tag/II	Fenestration Type	1		Ą.	o z	₹ -	S L	E (E)	TS OS	ð	S S	Pass	1
1	Window			96	(N)	0.330	NFRC	0.190	NF	RC 🗆	New		
2	Window			150	(E)	0.330	NFRC	0.190	NF	RC 🗆	New		
3	Window			48	(W)	0.330	NFRC	0.190	NF	RC 🗵	New		
4	Window			24	(N)	0.330	NFRC	0.190	NF	RC 🗵	New		\downarrow
	Window			24	(N)	0.330	NFRC	0.190	NF		New		
5	Window			24	(W)	0.330	NFRC	0.190	NF		New		\perp
			ı	48	(S)	0.330	NFRC	0.190	+		New		
	Window												
6 7	Window Window			48	(S)	0.330	NFRC	0.190	NF	RC 🗵	New		+-
5 6 7 8				48		0.330	NFRC	0.190	NF	RC 🖸	New	0	1

Project N HCC B												ate 1 <i>0/27/2</i>	2011
Project A	Address					Climate Zo			Total Co			ion Floor	
	Arrowhead Ave. Live	more					12		7	7,087		n/a	
	AL INFORMATION	. Names				— 11:1	. D: D	.:		11-4-10	4-1-1-0		
Building		Poloon		aı Public 9	School		n-Rise Res		<u> </u>		Notel Guest		
	nools (Public School) E	Bldg.					onditioned				Uncondition	ed Spac	es
☐ Sky	ylight Area for Large Enclo	sed Space	≥ 80	00 ft ² (ll	check	ced include	the ENV-	4C with s	ubmittal)			
Phase c	of Construction:	New C	onstru	ction		☐ Add	ition			Alterati	on		
		I Compo				☑ Ove	rall Envelo	рре		Uncon	ditioned (file	affidavit	t)
Front O	rientation: N, E, S, W or in			00 deg									
		FIEL	DIN	SPEC		VENER	GY CH	ECKLI	ST				
OPAQU	JE SURFACE DETAILS				INSU	LATION	, 						
Tag/ID	Assembly Type	Area (ft²)	Orlentation 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	Fall²
9	Slab	213	(N)	0.730	Non	ne			4	.4.7-A1	New		
10	Wall	217	(N)	0.069	R-2	21			4	.3.1-A6	New		
11	Roof	714	(N)	0.025	R-3	38			4	.2.1-A21	New		
12	Slab	714	(N)	0.730	Nor	ne			4	.4.7-A1	New		
13	Slab	150	(N)	0.730	Non	ne e			4	.4.7-A1	New		
14	Roof	150	(N)	0.025	R-3	38			4	.2.1-A21	New		
15	Well	30	(W)	0.069	 	21			4	.3.1-A6	New		
16	Slab	56	(N)	0.730	Non	ne	ļ		4	.4.7-A1	New	<u> </u>	
					ļ								<u> </u>
4.01-		10 "							<u> </u>				
1. See in 2. If Fail,	nstructions in the Nonresident , then describe on Page 2 of t	ai Compilai ne Inspectio	nce Ma on Che	anuar, pa cklist Fo	ige 3-96 rm and	o. take approj	oriate action	n to correct	. A fail d	oes not i	meet complia	nce.	
FENES	STRATION SURFACE	DETAILS										******************	
Tag/II	Fenestratio D Type	n		Area (If)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Overhang	Conditions Status	Pass	Fall
9	Skylight			20	(N)	0.490	NFRC	0.330	NFF		New		ㅁ
10	Window		1	72	(S)	0.330	NFRC	0.190	NFF		New		=
11	Window		-	24	(W)	0.330	NFRC	0.190			New		┡
12	Window		 	48	(W)	0.330	NFRC	0.190	 		New		15
13	Window		↓	24	(S)	0.330	NFRC	0.190	 		New		
14	Window		-	24	(W)	0.330	NFRC	0.190	NFI		New	<u> </u>	╀
			+						 	4		<u> </u>	무
			+-						 	 			<u> </u>
			-							 			╀
	i			1	1		1		i		1	1 [

	TIFICATE OF CO FIELD INSPECT				CHE	CKLI	ST	(Part	1 of 3)	ı	ENV.	-1
Project N	Name				<u> </u>	- 01 (1	<u> </u>					Date	~ ~
HCC E					T	Climate Zo	na	***************************************	Total (Cond. Floor	Area I Ad	10/27/. dition Floo	
	Arrowhead Ave. Liver	more			l	Olimate 20	12		Total	7,087	Al Ba	n/a	" /
GENER	RAL INFORMATION												
Building	у Туре:					☐ High	n-Rise Re	sidential		Hotel/Me	otel Gues	t Room	
☐ Sch	hools (Public School)	Reloca Bldg.	itable	Public 9	School	☑ C	onditione	d Spaces		□ U	Inconditio	ned Spa	ces
☐ Sky	ylight Area for Large Enclos	sed Space	≥ 80	00 ft 2 (ll	check	ed include	the ENV	-4C with	submit	al)			
Phase o	of Construction:	New C	onstru	iction		□ Add	ition			Alteratio	n		
Approac	ch of Compliance:	Compo	nent			☑ Ove	rall Envel	оре		Uncondi	itioned (fil	e affidav	it)
Front O	rientation: N, E, S, W or in	Degrees:		00 deg								,	
		FIEL	D IN	SPEC		IENER	GY CH	IECKL	ST				
OPAQL	JE SURFACE DETAILS				INSU	LATION		T					_
		Area (ff²)	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	Pass	
Tag/ID		 			 		M C	=>	512	>₹	00		4
17	Roof	56	(N)	0.025	 		ļ			4.2.1-A21	New		+
18	Slab	36	1,4	0.730	 		 			4.4.7-A1	New		+
19 20	Roof Wali	36 140	(N) (N)	0.025	 		_		 	4.2.1-A21 4.3.1-A6	New		+
21	Slab	140	 ``	0.730	 	+				4.3.1-A0	New		+
22	Roof	140	 ``	0.025	 		<u> </u>			4.2.1-A21	New		+
23	Wall	294	<u> </u>	0.069	 	- 				4.3.1-A6	New		t
24	Roof	1,077	 ``	0.025	 		1			4.2.1-A21	New		T
													T
													Ι
	, then describe on Page 2 of the STRATION SURFACE D Fenestration Type	DETAILS		Area (ff)	Orientation W. E. S. W	Max U-Factor	U-Factor Source	Max (R)SHGC	OHS.		Conditions Status		
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	[IFICATE OF (FIELD INSPE(СН	ECKLI	ST	(Part	1 of 3)		ENV-	1(
Project No HCC Bi	ame					, , , , , , , , , , , , , , , , , , , ,						Date 10/27/ 2	201
Project Ad	ddress	······································			7	Climate Zo			Total 0	Cond. Floor	Area Add	dition Floor	
	rrowhead Ave. Li	vermore					12		<u> </u>	7,087		n/a	
	AL INFORMATION			. ,		- (2.1	D' D			11 . 1/4.4			
Building		☑ Nonre		iai Public S	School		n-Rise Re						
	ools (Public School)	□ Bldg.				M C	onditione	•			nconditio	ned Spac	es
☐ Skyl	light Area for Large En	closed Spac	e ≥ 80	100 ft ² (lf	check	ced include	the ENV	-4C with	submit	al)			
Phase of	f Construction:	☑ New C	onstru	uction		☐ Add	ition			Alteration	n	-	
A pproac	h of Compliance:	☐ Comp	onent			☑ Ove	rall Envel	оре		Uncondi	tioned (file	e affidavi	t)
Front Or	ientation: N, E, S, W o	in Degrees		90 deg									
			D IN	SPEC		N ENER	GY CH	ECKL	IST				
OPAQU	E SURFACE DETAILS	S	,		INSU	ILATION	_						
Tag/ID	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	Pass	81.1
25	Slab	1,077	(N)	0.730	Nor	ne				4.4.7-A1	New		
26	Wali	140	(S)	0.069	R-2	21			<u> </u>	4.3.1-A6	New		1
27	Slab	140	(N)	0.730	Nor	ne				4.4.7-A1	New		1
28	Roof	140	(N)	0.025	R-S	38				4.2.1-A21	New		[
29	Slab	520	(N)	0.730	Noi	ne			ļ	4.4.7-A1	New		1
30	Roof	500	(N)	0.025	R-3	38	ļ		ļ	4.2.1-A21	New		[
31	Wall	30	(S)	0.069	R-2	21				4.3.1-A6	New		1
32	Slab	36	(N)	0.730	Noi	ne			ļ	4.4.7-A1	New		[
			 	ļ	ļ		 						1
2. If Fail,	structions in the Nonreside then describe on Page 2 of TRATION SURFAC	of the Inspect	on Che	anual, pa ecklist Fo	rm and	3. take approp	oriate actio	n to corre	ct. A fai	I does not m	eet compli		
Tag/ID	Fenestra Type			Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Source Overhang	Conditions	Pass	Feill
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ER & ASSOCIATE

REVISIONS

ISSUE FOR PERMIT 10-28-11

IYER & ASSOCIATES
Architecture Interiors Planning
1100 Montgomery Street
SAN FRANCISCO, CA 94133
415 362-4937 (IYER)
FAX 415 362-8158
2011© IYER & ASSOCIATES

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chanical & Electrical Engineers

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Mechanical & Electrical Engineers
101 California St. Suite 2025
San Francisco, California 94111
Ph (415) 543-9344 Fax (415) 543-0670
E-mail: Mail@APincSF.com 09021(D)

Om Namah Shivaya Om Namo Narayanaya

TITLE-24 COMPLIANCE FORMS

BUILDING "D"

HINDU COMMUNITY and CULTURAL CENTER

1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE
10/28/11
SCALE:
NONE
DRAWN BY:
PT
PROJECT:
ARROWHEAD

T-24.1

Project N		ION E	:NE	RGY	CH	<u>ECKLI</u>	ST	•	Part		E		
山へへ 5	Name B <i>ldg. D</i>						***************************************				Da 10	te)/27/ 2	201
Project A	Address	······································			I	Climate Zo	ne		Total (Cond. Floor A			
	Arrowhead Ave. Liver	more					12			7,087		n/a	
GENER	RAL INFORMATION												
Building	g Type:				Ya baal		n-Rise Re	sidential		Hotel/Mo	tel Guest Re	oom	
☐ Sch	hools (Public School)	Bldg.	itable	Public S	school	Ø C	onditione	d Spaces		□ Ur	conditioned	i Spac	es
□ Sky	ylight Area for Large Enclos	ed Space	9 ≥ 80	00 ft ² (lf	check	ced include	the ENV	-4C with	submit	tal)			
hase o	of Construction:	New C	onstru	ıction		☐ Add	ition			Alteration	1		
Approac	ch of Compliance:	Compo	nent			☑ Ove	rall Envel	оре		Uncondit	oned (file a	ffidavit	1)
Front O	rientation: N, E, S, W or in	Degrees:		90 deg									
		FIEL	D IN	SPEC		N ENER	GY CH	IECKL	ST				
OPAQL	JE SURFACE DETAILS	,	,		INSU	JLATION							
Tag/ID	Assembly Type	Area (ft²)	Orlentation N, E, S, W	U-Factor	Cavity R-Value	Exterior R- Value	Exterior Furring ³	interior R. Value	Interior Furring³	Joint Appendix 4	Condition Status	Pass	ç. <u>.</u>
33	Roof	36	(N)	0.025	R-3	38				4.2.1-A21	New		
34	Sleb	30	(N)	0.730	No	ne				4.4.7-A1	New		L
35	Roof	30	(N)	0.025	R-3	38				4.2.1-A21	New		L
36	Wall	257	(S)	0.069	R-2	21		ļ		4.3.1-A6	New		L
37	Wall	172		0.069						4.3.1-A6	New		
38	Roof	1,034		0.025		38				4.2.1-A21	New	 	L
39	Sleb	1,034		0.730	 					4.4.7-A1	New	<u> </u>	L
40	Wall	80	(S)	0.069	R-2	21				4.3.1-A6	New		
					ļ	1	1						
					ı								-
1 See Ir	netructions in the Nonresidentia	al Complia	nce Ma	anual na	ne 3-9/	3							-
1. See Ir 2. If Fail,		al Complia e Inspectio	nce Ma on Che	anual, pa cklist Fo	ge 3-96 rm and	6. take approp	oriate actio	n to correc	t. A fai	does not me	et complianc		
2. If Fail,	nstructions in the Nonresidentia, then describe on Page 2 of the	e Inspectio	on Che	anual, pa cklist Fo	ge 3-96 rm and	3. take approp	oriate actio	n to correc	t. A fail	does not me	et compliand		-
2. If Fail,	, then describe on Page 2 of the STRATION SURFACE D	e Inspectio	on Che	cklist Fo	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	ct. A fail		Conditions Status		-
2. If Fail, FENES	, then describe on Page 2 of the STRATION SURFACE D	e Inspectio	on Che	cklist Fo	m and	take approp	_						
2. If Fail, FENES	, then describe on Page 2 of the STRATION SURFACE D	e Inspectio	on Che	cklist Fo	m and	take approp	_			Source		Bass Bass	
2. If Fail, FENES	, then describe on Page 2 of the STRATION SURFACE D	e Inspectio	on Che	cklist Fo	m and	take approp	_			Source Overhang		Bass D	
2. If Fail, FENES	, then describe on Page 2 of the STRATION SURFACE D	e Inspectio	on Che	cklist Fo	m and	take approp	_			Source		e. Bass	
2. If Fail, FENES	, then describe on Page 2 of the STRATION SURFACE D	e Inspectio	on Che	cklist Fo	m and	take approp	_			Source Courten		e. Bass	
2. If Fail, FENES	, then describe on Page 2 of the STRATION SURFACE D	e Inspectio	on Che	cklist Fo	m and	take approp	_			Source Overhang		e. Bass	
2. If Fail, FENES	, then describe on Page 2 of the STRATION SURFACE D	e Inspectio	on Che	cklist Fo	m and	take approp	_			Source		e. Bass	
2. If Fail, FENES	, then describe on Page 2 of the STRATION SURFACE D	e Inspectio	on Che	cklist Fo	m and	take approp	_			Source C C C C C C C C C C C C C C C C C C C		e. Bass	
2. If Fail, FENES	, then describe on Page 2 of the STRATION SURFACE D	e Inspectio	on Che	cklist Fo	m and	take approp	_			Source C C C C C C C C C C C C C C C C C C C		e. Bass	
Z. If Fall,	then describe on Page 2 of the STRATION SURFACE D Fenestration Type	e Inspectio	on Che	Area (ft)	Orlentation 3	Max U-Factor	_			Source C C C C C C C C C C C C C C C C C C C		e. Bass	
2. If Fall, FENES Tag/II	, then describe on Page 2 of the STRATION SURFACE D	e Inspection DETAILS	nce Ma	Area (ff.)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Source C C C C C C C C C C C C C C C C C C C	Conditions	e. Bass	

AND FIELD	7,7 77 77	A. A		IANCE ENER	: GY CHECKLIS	ST.	(P	art 2 of 3)		ENV	-1C
Project Name			national Construction	industrial and the second			and the second second second	in College and a College a		Date 10/27/	201
HCC Bidg. D ROOFING PR	ODUIC	T (00	NI BO	7ES)					<u> </u>	10/2//	ZUI.
					s compliance approach	cannot be	e used).	Go to Overall E	nvelope	Approac	h or
Performance Appl	oach	1 1 1 1 1 1 1 1 1 1	. '			114	21	tine standard and the fe			
				uncuration him which the c	HE ROOFING PRODUCT nd 16 with a Low-Sloped.	PANCOCKE PANCOCK PROPERTY OF THE PARCOCK PARCO	****	QUIREMENTS:	Pass	Fall'	N/A
-		*********	Haritania di Santania di S		h a Steep-Sloped with let	-	****	er than 2.12 pitch	-	15	15
Low-sloped Wo	od fram	ed roofs i	n Climate	Zones 3 an	d 5 are exempted; solar r	eflectance :	and therm	al emittance or	15		15
SRI that have a	L'Iacto	of 0.039	or lower.	See Opaqu	e Surface Datails roof as i 5 are exempted, solar re	sembly Co	lumn Hot	ENV-SC		-	-
that have a U-f	actor of (048 or 1	ower. See	Opaque Su	rface Details roof assemb	bly below. (Column H	of ENV-2C			
The roof area of	overed t	ny building ance and	g integrate i thermai e	id photovolt mittance o	aic panels and building in SRI, see spreadsheet ca	itagrated so alculator at	olar therms www.ener	il penels are av ca covatte24/			
Roof constructi	ons that	have the	mai mass	over the ro	of membrane with a weig	ht of at lea	st 25 lb/fr	are exempt from			
High-rise reside	iud laitne	dings an			ath low-sloped roofs in Cl	mate Zone	s 1 throug	n 9, 12 and 16 are	1,7145	$+\bar{a}$	15
exempted from	the low-	sloped ro	oling crite	ria.					1	1	1 1
	-		}~~~~~~~~~		dist Form and take approp	ar e venezia e menor anterior de la constanta		parametra parametra parametra de la constitución de	plans if ne	cessary.	***************************************
CRRC Product ID	Roof 2 12	Slope - 212	Product	Weight ≥ 5lb/ft	Product Type	Refle	i Solar clance	Thermal Emmitance	SRI	Pass	Fail
R-38 Roof Attic	Ø		Ø		замения основностина и терен водина с тиници за терености	[c ,	0.30	0.75	ecologica melenciarioscopi		
udalicinum Balgicolis delum Balance (Baldice ₎ Mariet (Alexandre (Baldice)	0					01					
						D'			and the last of th	0	
and a control of the second						0,					
***************************************						D '					
						0,					
www.coolroots.org? 2. Indicate the type (3. If the Aged Reflec	oroducts/ of productance is	search oi t is being not avail	10 Jused for able in the	the roof top Cool Roof	Cool Roof Rating Council, i.e. single-ply roof, asph Rating Council's Rated Place by a calculated age	ait roof, me roduct Dire	tal roof, el	c. use the Initial Ref	lectance	value from	the
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	TIFICATE OF CO				CHE	CKLI	ST	(Part	1 of 3)		ENV-	1C
Project Na HCC Bi	ame		***************************************		·							Date	1044
Project Ac	dress			······································	To	limate Zo	ne		Total C	Cond. Floor	Area Ad	10/27/2 dition Floor	
	rrowhead Ave. Liver	more					12			7,087		n/a	
ENER/	AL INFORMATION												
Building		Doloon				☐ High	n-Rise Re	sidential		Hotel/Mo	tel Gues	t Room	
□ Sch	ools (Public School)	Bldg.	lable	Public S	SCHOOL	Ø C	onditioned	d Spaces		□ Ui	nconditio	ned Spac	es
	light Area for Large Enclos	ed Space	≥ 80	00 ft ² (lf	checke	d include	the ENV	-4C with	submitt	al)			
	f Construction:			uction		☐ Add							
		Compo	nent		Г	☑ Ove	rall Envel	ope		Uncondit	tioned (fil	e affidavit	t)
ront Or	ientation: N, E, S, W or in			90 deg									
		FIEL	D IN	SPEC			GY CH	ECKL	ST				
PAQUI	E SURFACE DETAILS				INSUL	ATION	1						т
Tag/ID	Assembly Type	Area (ft²)	Orlentation 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	Pass	Fail
1	Wall	50	(E)	0.069	R-21					4.3.1-A6	New		
2	Roof	40	(N)	0.025	R-38					4.2.1-A21	New		
3	Slab	40	(N)	0.730	None					4.4.7-A1	New	ㅁ	
4	Wall	2,607	(N)	0.069		 				4.3.1-A6	New		
5	Roof	714	(N)	0.025		 				4.2.1-A21	New		
6 	Sleb	714	(N)	0.730		 	 			4.4.7-A1	New		
7 8	Wall Wall	232 120	(E) (W)	0.069						4.3.1-A6 4.3.1-A6	New	+=	-
		720	(**)	0.003	7(-2)					4.5.1-70	74644		一
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. If Fail,	structions in the Nonresidentia then describe on Page 2 of th TRATION SURFACE D	e Inspectio	n Che	anual, pa ocklist Fo	ge 3-96. rm and ta	ake approp	oriate actio	n to correc	ct. A fail	does not m	eet compli	ance.	
Tag/ID	Fenestration Type	ı		Area (ft²)	Orlentation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Source Overhang	Conditions	Pass	Fail
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			-										
			+						-	- -	ļ	- -	
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	structions in the Nonresidentia	al Complia	nce Ma	anual, pa	ge 3-96.								
. See in: . If Fail t	hen describe on Page 2 of the	e Inspectio	n Che	cklist For	m and ta	ke aboron	riate action) to correc	t. Venn	/ buildina nla	ins if nece	ssarv	

ENV-1C

(Part 3 of 3)

Project Name HCC Bldg. D				Date 10/27/20
Required Acceptance Tests				TOTETTE
Designer:				
This form is to be used by the designer and atta	ched to the plans.	Listed below is the a	cceptance test for l	-nvelope
Fenestrations system. The designer is required	to check the accept	tance tests and list a	Il the fenestration p	roducts that
require an acceptance test. If all the site-built fe	nestration of a cert	ain type requires a te	est, list the different	fenestration
products and the number of systems. The NA7	Section in the Appe	endix of the Nonresid	lential Reference A	ppendices
Manual describes the test. Since this form will be		completion of this se	ection will allow the	responsible
party to budget for the scope of work appropriate	ely.			
Enforcement Agency:				
Systems Acceptance. Before Occupancy Pern	nit is granted for a n	ewly constructed bu	ilding or space or w	henever ne
fenestration is installed in the building or space :	shall be certified as	meeting the Accept	ance Requirements	
The ENV-2A form is not considered a complete				
boxes are checked and/or filled and signed. In a	addition, a Certificat	te of Acceptance for	ms shall be submitt	ed to the
enforcement agency that certifies plans, specifi				
information meet the requirements of §10-103(b				
out and signed forms before the building can red	ceive final occupand	cy. A copy of the EN	IV-2A for each diffe	rent
fenestration product line must be provided to the	e owner of the build	ing for their records.		***************************************
Test Description		ENV-2A	Test Performed E	By:
Fenestration Products Name or ID	Area of like	Building Envelope		
Requiring Testing or Verification	Products	Acceptance Test		
PPG SOLARBAN 80 XL	654			····
Velux Skylight Lo E	20			***************************************
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CERTIFICATE OF COMPLIANCE

	TIFICATE OF CO FIELD INSPECT				CHE	CKLI	ST	(⊬art	1 of 3) 1	ENV-	-7(
Project N	Name B <i>ldg. D</i>											ate 0/27/2	201
Project A	Address			~	C	limate Zo			Total 0	Cond. Floor		ion Floor	
	Arrowhead Ave. Live	more					12			7,087		n/a	
	RAL INFORMATION	Nonres	identi	اد		□ High	ı-Rise Re	eidantial		Hotel/M	otel Guest f	200m	
Building	p Type: □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	Dalasa		Public S			***************************************						
	,	Blag.		00 62 116			onditione				Uncondition	o Spac	.es
	ylight Area for Large Enclosor of Construction:	Sed Space New C			cnecke	a include □ Add		-40 With		Alteratio			
		I Compo					rall Envel				litioned (file	affidavi	it)
	prientation: N, E, S, W or in	<u>.</u>		90 deg		<u> </u>	ian Lilvei	obe		Oncone	itioned (me	andavi	-
	7707114110711.11				TION	FNFR	GY CH	FCKL	ST				
OPAQL	JE SURFACE DETAILS		<i>-</i> \	<u> </u>		ATION	<u> </u>	I WILL					
			_			T				4			Τ
Tag/ID	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	Condition Status	Pass	9
49	Roof	236	(N)	0.025	R-38					4.2.1-A21	New		
50	Slab	236		0.730					ļ	4.4.7-A1	New		
51	Wall	96	 ```	0.069		 			<u> </u>	4.3.1-A6	New	<u> </u>	4
52	Roof	1,476	(N)	0.025		 				4.2.1-A21	New	+=	+
53 54	Slab Wali	213 176	(N) (S)	0.730		 				4.4.7-A1 4.3.1-A6	New New	+ =	
55	Roof	236		0.025		 				4.2.1-A21	New	+=	+
5 6	Slab	236	(N)	0.730		 				4.4.7-A1	New		T
			<u> </u>										
2. If Fail,	nstructions in the Nonresidenti , then describe on Page 2 of the STRATION SURFACE [ne Inspectio	on Che	cklist Fo	rm and ta	ake approp	oriate actio	n to correc	ct. A fail	I does not r	_	nce.	— Т
Tag/II	Fenestration D Type	1		Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Source Overhang	Conditions Status	Pass	,
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													1
1. See Ir	nstructions in the Nonresident then describe on Page 2 of th	al Complia	nce Ma	anual, pa	ige 3-96.	ka annua	riota acti-	1 to corre	· Varie		lone if necess		

NDO	OR LIGHTING SCHEDULE and FIELD INS	PECTIO	N ENER	RY CHI	ECKL	ST			
nstalla	ation Certificate, LTG-1- INST (Retain a copy and verify form	is completed	and signed.)			Field Ins	spector	C	1
4 sepa	cate of Acceptance, LTG-2A and LTG-3A (Retain a copy a rate Lighting Schedule Must Be Filled Out for Conditioned h ting Schedule is only for:	nd verify form and Uncond	is completed Itioned Spac	and signed es Install	d.) ed Lighti	Field Inc ng Power			<u>]</u>
Ø	CONDITIONED SPACE	O U	NCONDITIO	NED SP	ACE				
Ø	The actual indoor lighting power listed below includes all with §146(a)	installed pe	rmanent and	i portable	lighting	systems ii	n accord	ance	
Ø	Only for offices: Up to the first 0.2 watts per square foot of calculation of actual indoor lighting power density in account of actual indoor lighting power density in account of the country of the co	of portable li ordance with	ghting shall the Excepti	not be recon to §14	quired to 6(a). All p	be include cortable li	ed in the ghting in	exce	SS
	Luminaire (Type, Lamps, Ballasts)			Inst	alled W	atts			
Α	B	С	D			F	G		H
				How w Was det				Fi Insp	
None or Item Tag	Complete Luminaire Description' (i.e. 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballasts)		Watts per Luminaire	CEC Default From NAS	According To §130 (d or e)	Number of Luminaires	Installed Watts (D.X.F.)	Pass	
L1	2'X4' Recessed Fluorescent Fixture W/F028T5		60.0	Ø	0	57	3,420		
L2	2'X2' Recessed Fluorescent Fixture W/F014T5		30.0	Ø	О	15	450		
L3	6" Recessed CFL W/1-26DTT		30.0	Ø		58	1,740	0	L
L7	2-T5 Lamp Fluorescent Strip		60.0	_ ⊠	<u> </u>	3	180	0	
									L
				D	D			D	L
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			ir	nstalled W	latts Pag	e Total:	5,790		
	Building total number of pages:		Inst	alled Wa (S	tts Buildir Sum of all	ng Total pages)	5,790		
1. Watta	age shall be determined according to Section 130 (d and e). Watta I then describe on Page 2 of the Inspection Checklist Form and tal	ige shall be ra	ting of light fix	r into LTC ture, not r	ating of bu	ılb			

Project N											1 -	Date
HCC B Project A	ddress				To	limate Zo	ne		Total (Cond. Floor A		10/27/ tion Floo
	rrowhead Ave. Live	more		· · · · · · · · · · · · · · · · · · ·			12			7,087		n/a
	AL INFORMATION	N/	- ! - ! - · - · · · · ·	!_I		- 16:	- Dias Da	-1-11-1		Hotel/Mot	4-1 O4	
Building	туре.	Nonres Beloca		Public 9			h-Rise Re					
	ools (Public School)	Bldg.					onditioned	•			ncondition	ed Spa
	light Area for Large Enclo							-4C with				
		New C				□ Add		AN A				offida
	th of Compliance:	Degrees:		90 deg	<u> </u>	M Ove	rall Envel	ope		Unconditi	ionea (me	amua
rioni Oi	iemaion. N, E, S, W Orm				TION	ENER	GY CH	ECKL	ST			
OPAQU	E SURFACE DETAILS	TIEL	ט ווע	SFLC	INSUL		GI CII	LUNL	<u> </u>			
			E					_		4		
Tag/ID	Assembly Type	Area (ff²)	Orlentation 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
57	Wall	116	(W)	0.069	R-21					4.3.1-A6	New	
		<u> </u>	<u> </u>		·							<u> </u>
							ļ				<u> </u>	
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		-										
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2. If Fail,	structions in the Nonresidenti then describe on Page 2 of th TRATION SURFACE I	ne Inspectio	on Che	anual, pa ecklist Fo	ige 3-96. rm and ta	ake approp	priate actio	n to correc	t. Afai	does not me	et complia	nce.
LILLO	THATION COM ACE	, LIAILO			E ≩				T	50	su	T
Tag/ID	Fenestration Type	1		Area (ft²)	Orientation N, E, S, W	Max U-Factor	U-Factor Source	Max (R)SHGC	SHGC	Source Overhang	Conditions Status	Dace
			-						-			
			+-						-			
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**************************************			+-						-	 		
		<u> </u>	<u> </u>				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		1			

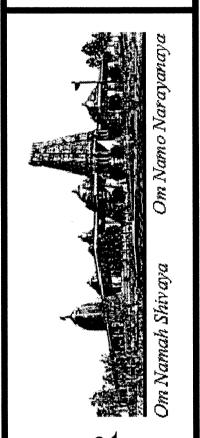
CERTIFICATE OF COMPLIAN Project Name			(Part 2 of 3)	Date	G-10
HCC Bldg. D				10/2	7/201
INDOOR LIGHTING SCHEDULE and FIEL	and the second and th				
Fill in controls for all spaces: a) area controls, b) automatic daylighting controls for daylit areas > 2 general lighting controlled separately from displa controls for retail stores > 50,000 ft ² , in accordan	2,500 ft°, d) shut-c v. ornamental and	off controls, e) display light d display case lighting an	iting controls. f) tailored li	ahtina co	ntrols
MANDATORY LIGHTING CONTROLS - FI	ELD INSPECT	ON ENERGY CHECK	LIST		eld ector
Type/ Description	Number of Units	Location in Buildir	Special ng Features	Pass	Fa
			<u> </u>		
				<u> </u>	<u> </u>
			_		
					<u> </u>
					Īσ
SPECIAL FEATURES INSPECTION CHEC The local enforcement agency should pay special justification and documentation, and special verified and may reject a building or design that otherwise submitted.	al attention to the lication. The local	items specified in this che enforcement agency det	ermines the adequacy of	the justif	cation
Field Inspector's Notes or Discrepancies:					



REVISIONS ISSUE FOR PERMIT 10-28-11

IYER & ASSOCIATES
Architecture Interiors Planning 2011©IYER & ASSOCIATES

Ajmani & Pamidi Inc.
Mechanical & Electrical Engineers
101 California St. Suite 2025
San Francisco, California 94111
Ph (415) 543-9344 Fax (415) 543-0670
E-mail: Mail@APincSF.com 09021(D)



HINDU DATE 10/28/11 SCALE: NONE DRAWN BY:

T-24.2

PROJECT: ARROWHEAD

CERTIFICATE OF	COMPLIANCE			(Part 3 of 3)	LTC	3-1C
Project Name HCC Bldg. D			12		Date 10/27	/2011
	CONDITIONED SPACE LIG	HTING ML				
Indoor Lighting P	ower for Conditioned Spaces		Indo	or Lighting Power for Uncor	nditioned Spac	es
		Vatts			w	atts
Installed Lighting (from Conditioned LTG-1C, Pag	ne 2)	5,790	nstalled from Unco	Lighting nditioned LTG-1C, Page 2)		
Lighting Control Credit Conditioned Spaces (from LTG	_	131	Lighting C	control Credit ned Spaces (from LTG-2C)	-	
Adjusted Installed Lighting Power	=		Adjusted I Lighting Po		=	
Complies if Installed ≤ Allo	owed	1 (Complies	if Installed ≤ Allowed		1
Allowed Lighting Power Conditioned Spaces (from L		5,660	Allowed L Uncondition	ighting Power oned Spaces (from LTG-3C)		<u> </u>
system with controls is insta	illed in the building or space sha	Il be certifie	d as meet	ted building or space or when ting the Acceptance Requiren to be accepted by the enforce	nents.	
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, so of §10-103(b) of Title 24 Par receive final occupancy. A o	alled in the building or space sha orms are not considered comple for filled and signed. In addition specifications, installation certifients of the field inspector must recopy of the LTG-2A and LTG-3.	II be certified te forms and a Certificate cates, and o reive the pro	d as meet d are not t e of Acce perating a operly fille	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitt and maintenance information of d out and signed forms before	nents. ment agency uned to the enforce meet the require the building ca st be provided to	nless ement ements in o the
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, so of §10-103(b) of Title 24 Par receive final occupancy. A o	alled in the building or space sha orms are not considered comple for filled and signed. In addition specifications, installation certifients of the field inspector must recopy of the LTG-2A and LTG-3.	II be certified te forms and a Certificate cates, and o seive the pro A for each d	d as meet d are not t e of Acce perating a operly fille	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitt and maintenance information of d out and signed forms before	nents. ement agency ur led to the enforc meet the require e the building ca	nless ement ements in o the
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Par receive final occupancy. A cowner of the building for the	alled in the building or space sha orms are not considered complet or filled and signed. In addition specifications, installation certifient 6. The field inspector must recopy of the LTG-2A and LTG-3. Fir records. Luminaires Company of the Luminaires Company of the LTG-2A and LTG-3.	II be certified te forms and a Certificate cates, and o seive the pro A for each d	d as meet d are not e of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitt and maintenance information of d out and signed forms before	nents. Inement agency uned to the enforcement the require the building cast be provided to	nless ement in o the and 3A s and s and atic Control
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Par receive final occupancy. A cowner of the building for the	alled in the building or space shat orms are not considered complet for filled and signed. In addition specifications, installation certifient of the field inspector must recopy of the LTG-2A and LTG-3A or records.	Il be certified te forms and a Certificat cates, and o eive the pro A for each d controlled Number Luminal controll	d as meet d are not e of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must	nents. ement agency uned to the enforcement the require on the building cast be provided to the LTG-2A LTG-2 Controls Sensors Autom Daylighting	nless ement on the and and and atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the	alled in the building or space shat orms are not considered completor filled and signed. In addition specifications, installation certifient 6. The field inspector must recopy of the LTG-2A and LTG-3 air records. Luminaires Company of the LTG-2B and LTG-3 air records.	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not to e of Acce perating a perly fille lifterent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before ghting luminaire control(s) must Location	nents. ement agency uned to the enforcement the require on the building cast be provided to the LTG-2A LTG-2 Controls Sensors Autom Daylighting Accepte	nless ement in o the and and a and atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, so of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifient 6. The field inspector must recopy of the LTG-2A and LTG-3 air records. Luminaires Company Description 2'X2' Recessed Fluorescent Fixtual	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must Location Corridor # 2/Vestibule	nents. ement agency uned to the enforcement the require the building cast be provided to LTG-2A LTG-2 Controls Sensors Autom Daylighting Accepts	nless ement on the and sand sand atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Par receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway Occ Sensor - Storage	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifiert 6. The field inspector must recopy of the LTG-2A and LTG-3 in records. Luminaires Complete Compl	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before ghting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1	nents. ement agency uned to the enforcement the require the building cast be provided to LTG-2A LTG-2 Controls Sensors Autom Daylighting Accepte	nless ementerments in o the and and s and atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, so of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway Occ Sensor - Storage Occ Sensor - Hallway	alled in the building or space shapms are not considered completor filled and signed. In addition specifications, installation certifier 6. The field inspector must recopy of the LTG-2A and LTG-3 air records. Luminaires Complete Complet	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of dout and signed forms before ghting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1 Storage Rm # 113	nents. ement agency uned to the enforcement the require ethe building cast be provided to LTG-2A LTG-2 Controls Sensors Autom Daylighting Accepte	nless ement in o the and s and s and c contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway Occ Sensor - Storage Occ Sensor - Hallway	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifiert 6. The field inspector must recopy of the LTG-2A and LTG-3 in records. Luminaires Complete Compl	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1 Storage Rm # 113 Corridor # 108	nents. In ement agency uned to the enforcement the require the building cast be provided to LTG-2A LTG-2 Controls Sensors Autom Daylighting Accepte	nless ement on the and 3A and a and atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, so of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway Occ Sensor - Storage Occ Sensor - Hallway	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifiert 6. The field inspector must recopy of the LTG-2A and LTG-3 in records. Luminaires Complete Compl	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1 Storage Rm # 113 Corridor # 108	nents. In ement agency uned to the enforcement the require the building cast be provided to the building cast building acceptance to the building cast bui	nless emention of the and and sand attic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, so of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway Occ Sensor - Storage Occ Sensor - Hallway	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifiert 6. The field inspector must recopy of the LTG-2A and LTG-3 in records. Luminaires Complete Compl	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1 Storage Rm # 113 Corridor # 108	nents. ement agency uned to the enforcement the require on the building cast be provided to the provided to the building cast be provided to the building cast	nless ementer in o the and 3A and a and atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway Occ Sensor - Storage Occ Sensor - Hallway	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifiert 6. The field inspector must recopy of the LTG-2A and LTG-3 in records. Luminaires Complete Compl	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1 Storage Rm # 113 Corridor # 108	nents. In ement agency uned to the enforcement the require on the building cast be provided to the building cast cast cast cast cast cast cast cast	nless ementer in o the a and 3A s and atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway Occ Sensor - Storage Occ Sensor - Hallway	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifiert 6. The field inspector must recopy of the LTG-2A and LTG-3 in records. Luminaires Complete Compl	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1 Storage Rm # 113 Corridor # 108	nents. ement agency uned to the enforcement the require the building cast be provided to the provided to the building cast be provided to the building cast buildin	nless ementer in o the and sand sand atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway Occ Sensor - Storage Occ Sensor - Hallway	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifiert 6. The field inspector must recopy of the LTG-2A and LTG-3 in records. Luminaires Complete Compl	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1 Storage Rm # 113 Corridor # 108	nents. ement agency uned to the enforcement the require on the building cast be provided to the provided to the building cast be provided to the building cast buil	nless ements in o the and 3A s and s and atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway Occ Sensor - Storage Occ Sensor - Hallway	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifiert 6. The field inspector must recopy of the LTG-2A and LTG-3 in records. Luminaires Complete Compl	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1 Storage Rm # 113 Corridor # 108	nents. ement agency ured to the enforcement the require ethe building cast be provided to the	nless ementer in o the and and s and atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway Occ Sensor - Storage Occ Sensor - Hallway	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifiert 6. The field inspector must recopy of the LTG-2A and LTG-3 in records. Luminaires Complete Compl	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1 Storage Rm # 113 Corridor # 108	nents. ement agency uned to the enforcement the require the building cast be provided to the p	nless ementer on the and and sand atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Pai receive final occupancy. A cowner of the building for the Equipment Requiring Testing Occ Sensor - Hallway Occ Sensor - Hallway Occ Sensor - Storage Occ Sensor - Hallway	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifiert 6. The field inspector must recopy of the LTG-2A and LTG-3 in records. Luminaires Complete Compl	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1 Storage Rm # 113 Corridor # 108	nents. ement agency uned to the enforcement the require on the building cast be provided to the provided to the building cast be pro	nless ements in o the and sand sand sand atic Contro
system with controls is insta The LTG-2A and LTG-3A for the boxes are checked and/ agency that certifies plans, s of §10-103(b) of Title 24 Par receive final occupancy. A cowner of the building for the	alled in the building or space shaperms are not considered completor filled and signed. In addition specifications, installation certifiert 6. The field inspector must recopy of the LTG-2A and LTG-3 in records. Luminaires Complete Compl	Il be certified te forms and a Certificate cates, and o eive the pro A for each d controlled Number Luminai controll e W	d as meetd are not be of Acce perating a perly fille lifferent lig	ting the Acceptance Requirem to be accepted by the enforce ptance forms shall be submitte and maintenance information of d out and signed forms before phting luminaire control(s) must Location Corridor # 2/Vestibule Corridor # 1 Storage Rm # 113 Corridor # 108	nents. ement agency uned to the enforcement the require the building cast be provided to the p	nless ements in o the a and 3A s and s and atic Contro ance

FIELD INSPECTION ENE	RGY CHECKL	IST		
Project Name				Date 10/27/2011
HCC Bldg. D Project Address		Climate Zone	Total Cond.	
1232 Arrowhead Ave. Livermore		12	7,08	t de la companya de
GENERAL INFORMATION				
Building Type:	residential	☐ High-Rise Resident	ial 🗖 Hot	el/Motel Guest Room
,	catable Public School	Bldg. ☑ Conditioned	l Spaces D	Unconditioned Spaces (affidavit)
Phase of Construction: New	Construction	☐ Addition		ration
Approach of Compliance:	ponent	Overall Envelope T Energy	DV 🗖 Und	conditioned (file affidavit)
Front Orientation: N, E, S, W or in Degree	es: 90 deg			
HVAC SYSTEM DETAILS		1	FIELD INSPEC	TION ENERGY CHECKLIST
			Meets Cr	iteria or Requirements
Equipment ²	Inspecti	on Criteria	Pass	Fail – Describe Reason²
Item or System Tags	AC-D-2			
(i.e. AC-1, RTU-1, HP-1) Equipment Type ³ :	Packaged DX			
Number of Systems	1			
Max Allowed Heating Capacity ¹	64,000 Btu/hr			
Minimum Heating Efficiency ¹	80% AFUE			
Max Allowed Cooling Capacity ¹	72,500 Btu/hr			
Cooling Efficiency ¹	12.7 EER			
Duct Location/ R-Value	Attic, Ceiling Ins, ve	nted / 8.0		
When duct testing is required, submit MECH-4A & MECH-4-HERS	No			
Economizer	Fixed Temp (Integra	ated)		
Thermostat	Setback Required			
Fan Control	Constant Volume			
			FIELD INSPEC	TION ENERGY CHECKLIST
Equipment ²	Inspecti	on Criteria	Pass	Fail – Describe Reason ²
Item or System Tags				
(i.e. AC-1, RTU-1, HP-1)	AC-D-1			
Equipment Type ³ :	Packaged DX			
Number of Systems	49 000 Dtuth			
Max Allowed Heating Capacity ¹	48,000 Btu/hr			
Minimum Heating Efficiency ¹	80% AFUE			
Max Allowed Cooling Capacity ¹	62,400 Btu/hr	CO		
Cooling Efficiency ¹	12.0 SEER / 12.7 E			
Duct Location/ R-Value When duct testing is required, submit	Attic, Ceiling Ins, ve	TREU / O.U		
was tosting to required, earning	No			
MECH-4A & MECH-4-HERS	No Economizer			
MECH-4A & MECH-4-HERS Economizer				
	Setback Required			

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	CONTROLS CREDIT	WORKSHE	ET	(Part 1	of 2)	LTG-2C
Project Name ICC Bldg. D	CTMENT FACTORS (DAF) FO	D NON DAYUS	UT CONTROL		1 -	ate 10/27/2011
A Separate PAF schedule are or			d Unconditione	d Spaces. Con		ed on this
☑ CONDIT	IONED SPACES		UNCONDITIO	NED SPACES		
A	В		D	E Watts of	F Power	G Control
Room # Zone ID Areas	Lighting Control Description ¹	Plan Reference	Room Area (ft²)	Control Lighting	Adjustments Factor ²	Credit Watts (E x F)
orridor # 2/Vestibu	Occ Sensor - Hallway	L2	440	150	0.25	38
orridor # 1	Occ Sensor - Hallway	L2	150	90	0.25	23
orage Rm #113	Occ Sensor - Storage	L7	56	60	0.15	9
vridor # 108	Occ Sensor - Hallway	L2	520	210	0.25	53
nitor Rm#107	Occ Sensor - Storage	L7	30	60	0.15	9
					PAGE TOTAL	131
ote:	Building to	otal of non-daylight co	ontrol credit watts fo	r all pages of LT0	3-2C Page 1 of 2	
onditioned and nconditioned pace shall be aparately taled			LDING TOTAL OF N-DAYLIGHT AND	ALL CONTROL DAYLIGHT CON as appropriate for	CREDIT WATTS TROL CREDITS) CONDITIONED	131
. Description shall	 I be consistent with Type of Control def ent Factor taken from Table 146-C	ined in Table 146-C		or UNCONDI	TIONED Spaces	
nergyPro 5.1 by I		RunCode: 2011-	-10-27T11:45:56	ID: Bld. D		Page 28 of 59

CERTIFICATE OF COMP	IANCE and	. (1	Part 1 of 4)	MECH-1C
FIELD INSPECTION ENE		LIST ('	ran (1014)	WILCHIE
Project Name HCC Bldg. D		7-1		Date 10/27/2011
Project Address 1232 Arrowhead Ave. Livermore		Climate Zone 12	Total Cond. I 7,08	
GENERAL INFORMATION				
Building Type: 🔽 Non	residential	☐ High-Rise Resider	ntial 🗖 Hot	el/Motel Guest Room
	catable Public Schoo		***************************************	(affidavit)
Phase of Construction:	Construction	□ Addition		ration
	ponent	Overall Envelope Energy	TDV 🗖 Und	conditioned (file affidavit)
Front Orientation: N, E, S, W or in Degree	es: 90 deg			
HVAC SYSTEM DETAILS			FIELD INSPEC	TION ENERGY CHECKLIST
			Meets Cri	teria or Requirements
Equipment ²	Inspec	tion Criteria	Pass	Fail – Describe Reason²
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-D-3			
Equipment Type ³ :	Split DX			
Number of Systems	1			
Max Allowed Heating Capacity ¹	48,000 Btu/hr			
Minimum Heating Efficiency ¹	81% AFUE			
Max Allowed Cooling Capacity ¹	49,450 Btu/hr			
Cooling Efficiency ¹	12.0 SEER / 12.8	EER		
Duct Location/ R-Value	Attic, Ceiling Ins, v	ented / 8.0		
When duct testing is required, submit MECH-4A & MECH-4-HERS	No			
Economizer	No Economizer			
Thermostat	Setback Required	······································		
Fan Control	Constant Volume			
			FIELD INSPEC	TION ENERGY CHECKLIST
Equipment ²	Inspec	tion Criteria	Pass	Fail – Describe Reason ²
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	CU/ACC-D-1			
Equipment Type ³ :	Split DX			
Number of Systems	1			
Max Allowed Heating Capacity ¹	16,000 Btu/hr			
Minimum Heating Efficiency ¹	12.00 HSPF			
Max Allowed Cooling Capacity ¹	12,000 Btu/hr			
Cooling Efficiency ¹	0.0 SEER / 14.5 E	ER		
Duct Location/ R-Value	Attic, Ceiling Ins, v	rented / 8.0		
When duct testing is required, submit MECH-4A & MECH-4-HERS	No			
Economizer	No Economizer			
Thermostat	Setback Required			
Fan Control	Constant Volume			
If the Actual installed equipment performant the building plans) the responsible party shall. For additional detailed discrepancy use Pag Indicate Equipment Type: Gas (Pkg or, Splindicate Equipment Type).	all resubmit energy comp e 2 of the Inspection Ch	bliance to include the new ch ecklist Form. Compliance fai	anges.	
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FIELD INSPECTION ENE	IIG TOTILORLIST		Date
HCC Bldg. D			10/27/2011
Project Address	Climate Zone	Total Cond. F	
1232 Arrowhead Ave. Livermore GENERAL INFORMATION	9 12	7,08	87 n/a
	nresidential 🗖 High-Rise Residen	ntial 🗆 Hot	el/Motel Guest Room
Building Type. —			Unagaditioned Casess
· · · · · · · · · · · · · · · · · · ·	locatable Public School Bldg. ☑ Conditione	ed Spaces D	(affidavit)
Phase of Construction:	w Construction		ration
Approach of Compliance:	mponent Overall Envelope Energy	TDV 🗖 Und	conditioned (file affidavit)
Front Orientation: N, E, S, W or in Degre			
HVAC SYSTEM DETAILS		FIELD INSPEC	TION ENERGY CHECKLIS
		Meets Cri	teria or Requirements
Equipment ²	Inspection Criteria	Pass	Fail – Describe Reasor
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	DHW Heater		
Equipment Type ³ :	Gas Fired DHW Boiler		
Number of Systems	1		
Max Allowed Heating Capacity ¹	199,000 Btu/hr		
Minimum Heating Efficiency ¹	0.85 EF		
Max Allowed Cooling Capacity ¹	n/a		
Cooling Efficiency ¹	n/a		
Duct Location/ R-Value	n/a		
When duct testing is required, submit MECH-4A & MECH-4-HERS	n/a		
Economizer	n/a		
Thermostat	n/a		
Fan Control	n/a		
		FIELD INSPEC	TION ENERGY CHECKLIS
Equipment ²	Inspection Criteria	Pass	Fail - Describe Reasor
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	AC-D-4		
Equipment Type ³ :	Packaged DX		
Number of Systems	1		
Max Allowed Heating Capacity ¹	48,000 Btu/hr		
Minimum Heating Efficiency ¹	80% AFUE		
Max Allowed Cooling Capacity ¹	62,400 Btu/hr		
Cooling Efficiency ¹	12.0 SEER / 12.7 EER		
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 8.0		
When duct testing is required, submit MECH-4A & MECH-4-HERS	No		
Economizer	No Economizer		
	Setback Required		
Thermostat			

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2011-10-27T11:45:56 ID: Bld. D

Project Name HCC BIdg. D			Date 10/27/2011
Project Address	Climate Zone	Total Cond. F	
1232 Arrowhead Ave. Livermore		7,08	
GENERAL INFORMATION			
Building Type: 🔟 Nor	nresidential 🗖 High-Rise Reside	ntial 🗖 Hote	el/Motel Guest Room
☐ Schools (Public School) ☐ Rel	ocatable Public School Bldg. 🛮 🖸 Condition	ed Spaces □	Unconditioned Spaces (affidavit)
Phase of Construction: New	v Construction Addition		ration
Approach of Compliance: Cor	nponent Overall Envelope Energy	TDV 🗖 Unc	onditioned (file affidavit)
Front Orientation: N, E, S, W or in Degre			
HVAC SYSTEM DETAILS		FIELD INSPECT	TION ENERGY CHECKLIST
			teria or Requirements
Equipment ²	Inspection Criteria	Pass	Fail - Describe Reason ²
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	CU/ACC-D-3		
Equipment Type ³ :	Split DX		
Number of Systems	1		
Max Allowed Heating Capacity ¹	16,000 Btu/hr		
Minimum Heating Efficiency ¹	12.00 HSPF		
Max Allowed Cooling Capacity ¹	12,000 Btu/hr		
Cooling Efficiency ¹	0.0 SEER / 14.5 EER		
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 8.0		
When duct testing is required, submit MECH-4A & MECH-4-HERS	No		
Economizer	No Economizer		
Thermostat	Setback Required		
Fan Control	Constant Volume		
		FIELD INSPEC	TION ENERGY CHECKLIST
Equipment ²	Inspection Criteria	Pass	Fail – Describe Reason ²
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	CU/ACC-D-4		
Equipment Type ³ :	Split DX		
Number of Systems	1		
Max Allowed Heating Capacity ¹	16,000 Btu/hr		
Minimum Heating Efficiency ¹	12.00 HSPF		
Max Allowed Cooling Capacity ¹	12,000 Btu/hr		
Cooling Efficiency ¹	0.0 SEER / 14.5 EER		
Duct Location/ R-Value	Attic, Ceiling Ins, vented / 8.0		
When duct testing is required, submit MECH-4A & MECH-4-HERS	No		
Economizer	No Economizer		
Thermostat	Setback Required		
	Constant Volume		

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2011-10-27T11:45:56 ID: Bld. D Page 24 of 59

CERTIFICATE OF FIELD INSPECTION				LIST	(Part 1 of	4)	MECH-1	
Project Name								Date	
HCC Bldg. D Project Address				Climate Zo		I Total C	ond. Floor Area	10/27/20	
1232 Arrowhead Ave. Li	iverm	nre		Gilliate 20	12		7,087	n/a	
GENERAL INFORMATION	V () () ()	-		<u> </u>			7,007	1 // 4	
Building Type:	Ø	Nonresi	dential	☐ Hig	h-Rise Reside	ential 🗆	Hotel/Motel C	auest Room	
☐ Schools (Public School)		Relocat	able Public School	ol Bldg.	☑ Condition	ed Spaces	□ Uncon	ditioned Space	
Phase of Construction:	Ø	New Co	nstruction	☐ Add	dition		Alteration	······································	
Approach of Compliance:			nent		erall Envelope ergy	TDV _	d (file affidavit)		
Front Orientation: N, E, S, W o	r in D	egrees:	90 deg						
HVAC SYSTEM DETAIL	.S					FIELD INS	PECTION EN	RGY CHECKL	
						Meet	s Criteria or F	Requirements	
Equipment ²			Inspec	tion Criter	ia	Pass	Fail - C	escribe Reas	
Item or System Tags (i.e. AC-1, RTU-1, HP-1)		C	J/ACC-D-2						
Equipment Type ³ :		Sp	olit DX						
Number of Systems		1	1						
Max Allowed Heating Capacity	r ¹	16	16,000 Btu/hr				***************************************		
Minimum Heating Efficiency ¹		12	12.00 HSPF						
Max Allowed Cooling Capacity	r ¹	12	,000 Btu/hr						
Cooling Efficiency ¹		0.0	0 SEER / 14.5 E	ER					
Duct Location/ R-Value			tic, Roof Ins / 8.	0					
When duct testing is required, MECH-4A & MECH-4-HERS	subm	it No)		***************************************				
Economizer		No	Economizer						
Thermostat			etback Required						
Fan Control		Co	onstant Volume						
						FIELD INS	PECTION EN	RGY CHECKL	
Equipment ²			Inspe	tion Criter	ria	Pass	Fail - D	escribe Reas	
Item or System Tags (i.e. AC-1, RTU-1, HP-1)		A	C-D-5	***************************************					
Equipment Type ³ :		Pe	ackaged DX						
Number of Systems	·	1							
Max Allowed Heating Capacity	<u>/</u> 1		3,000 Btu/hr						
Minimum Heating Efficiency ¹			% AFUE						
Max Allowed Cooling Capacity	<u></u>		2,400 Btu/hr						
Cooling Efficiency ¹			2.0 SEER / 12.7						
Duct Location/ R-Value When duct testing is required,	subm	it	tic, Ceiling Ins,	vented / 8.	.0				
MECH-4A & MEČH-4-HERS		N			********************************				
Economizer			o Economizer						
Thermostat			etback Required		***************************************				
Fan Control		1.0	onstant Volume						

۱. ا	If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from
1	the building plans) the responsible party shall resubmit energy compliance to include the new changes.
2.	For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.
3.	Indicate Equipment Type: Gas (Pkg or, Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2011-10-27T11:45:56 ID: Bld. D

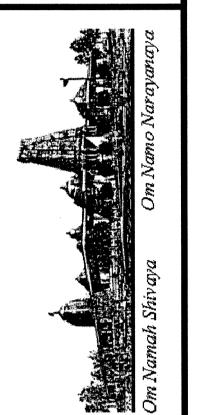
MECH-1C CERTIFICATE OF COMPLIANCE and (Part 2 of 4) FIELD INSPECTION ENERGY CHECKLIST Date 10/27/2011 HCC Bldg. D EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2011-10-27T11:45:56 ID: Bld. D

ISSUE FOR PERMIT 10-28-11 IYER & ASSOCIATES
Architecture Interiors Planning

REVISIONS

2011@IYER & ASSOCIATES

Ajmani & Pamidi Inc.
Mechanical & Electrical Engineers
101 California St. Suite 2025
San Francisco, California 94111
Ph (415) 543-9344 Fax (415) 543-0670
E-mail: Mail@APincSF.com 09021(D)



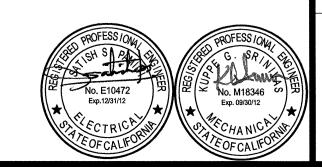
TITLE-24 COMPLIANCE FORMS

BUILDING "D"

HINDU COMMUNITY and CULTURAL CENTER

1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE 10/28/11 SCALE: NONE PROJECT: ARROWHEAD



Project Name										Date	
HCC Bldg. D											7/2011
Required Acceptance Tests					4						
Designer: This form is to be used by the designer aboxes by all acceptance tests that apply the number of systems. The NA number part of the plans, completion of this sect	and liste	ed all equipmer ites the Section	nt that requires	s an acceptan dix of the Nor	ice test. If all e rresidential Re	equipment of eference App	a certain typ endices Mar	e requires a	test, list the e	quipment des	cription an
Building Departments: Systems Acceptance: Before occupan normal use, all control devices serving to Systems Acceptance: Before occupan	ne buildi cy permi	ng or space sha t is granted. All	all be certified I newly instalk	as meeting to ed HVAC equ	he Acceptance ipment must b	e Requireme e tested usir	nts for Code ig the Accep	Compliance tance Requi	rements.	•	•
The MECH-1C form is not considered a person performing the test (Example: H' checked-off forms are required for ALL specifications, installation, certificates, a properly filled out and signed forms before	VAC inst newly instant opera	aller, TAB cont stalled equipme ating and maint uilding can rece	ractor, control ent. In additior enance inforn eive final occu	s contractor, a a Certificate nation meet th pancy.	PE in charge of Acceptance requirement	of project) an e forms shall ts of §10-103	d what Acce be submitte B(b) and Title	ptance test i d to the build -24 Part 6. T	must be condu ling departme The building in	ucted. The foll ant that certifie aspector must	owing s plans, receive th
TEST DESCRIPTION	·	MECH-2A	MECH-3A	MECH-4A	MECH-5A	MECH-6A	MECH-7A	MECH-8A	MECH-9A	MECH-10A	MECH-1
		Outdoor Ventilation For	Constant Volume & Single-Zone	Air Distribution	Economizer	Demand Control Ventilation	Supply Fan	Valve Leakage	Supply Water Temp.	Hydronic System Variable Flow	Automat Demand Shed
Equipment Requiring Testing or Verification	Qty.	VAV & CAV	Unitary	Ducts	Controls	DCV	VAV	Test	Reset	Control	Contro
Equipment Requiring Testing or Verification Trane YHC-060	Qty.	VAV & CAV	Unitary ☑	Ducts	Controls		VAV		Reset	Control	
	Qty. 3					DCV		Test			Contro
Trane YHC-060 2RLS/AOU112RLS	Qtty. 3 1		Ø			DCV Ø		Test 🗆			Contro
Trane YHC-060 2RLS/AOU112RLS Trane YHC-072	Qty. 3 1 1	0	Z Z			⊠ ⊠ DCV	0 0	Test □		0	Contro
Trane YHC-080 2RLS/AOU112RLS Trane YHC-072 trane YHC-048	Qty. 3 1 1 1 3		Ø Ø Ø			DCV	0 0	Test		0	Contro
Trane YHC-080 2RLS/AOU112RLS Trane YHC-072 rane YHC-048	3 1 1 1		Ø Ø Ø			DCV	000	Test C			Contro
Trane YHC-080 2RLS/AOU112RLS Trane YHC-072 rane YHC-048	3 1 1 1		\(\overline{\pi}\)				0 0 0	Test			Contro
Trane YHC-060 2RLS/AOU112RLS Trane YHC-072 rane YHC-048	3 1 1 1		\(\text{\tinx{\text{\texi{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\xititt{\texi\text{\tett{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\}\text{\tett{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\texi}\tint{\text{\ti}\tint{\text{\texi}\text{\texi}\tint{\text{\texi}\text{\text{\texi}\t				0 0 0 0	Test		0 0 0 0 0	Contro
Trane YHC-060 2RLS/AOU112RLS Trane YHC-072 rane YHC-048	3 1 1 1		D D D D D D D D D D			DCV		Test			Control
rane YHC-060 PRLS/AOU112RLS rane YHC-072 rane YHC-048	3 1 1 1					DCV	0 0 0	Test			Contri
Trane YHC-060 2RLS/AOU112RLS Trane YHC-072 rane YHC-048	3 1 1 1					DCV		Test			Contro
Trane YHC-060	3 1 1 1					DCV		Test			
Trane YHC-060 2RLS/AOU112RLS Trane YHC-072 trane YHC-048	3 1 1 1					DCV		Test			

CERTIFICATE OF CO	MPLIAN	CE and F	IELD INSP	ECTION E	NERGY CH	ECKLIST	(Part 4 of 4)	MECH-10
roject Name CC Bldg. D							W W - W - W - W - W - W - W - W - W	Date 10/27/2011
TEST DESCRIPTION		MECH-12A	MECH-13A	MECH-14A	MECH-15A			.002772077
Equipment Requiring Testing	Qty.	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems		Test Performed By	
rane YHC-060	3							
2RLS/AOU112RLS	1							
rane YHC-072	1							
rane YHC-048	1							
2RLS/AOU112RLS	3							

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EnergyPro 5.1 by EnergySoft	User Number.	2849		RunCode: 2011-10	27T11:45:56	ID: Bld. D		Page 27 of 5

Project Name HCC Bldg. D				Date 10/27/2011
TOO Blog, D	1	da Air Sustama Timo //a	ntral, Single Zone, Package,	
tem or System Tags	Indice	CU/ACC-D-1	CU/ACC-D-3	CU/ACC-D-4
(i.e. AC-1, RTU-1, HP-1)	+	1		
Number of Systems	Implicate Boo		Schedule and indicate the ap	
MANDATORY MEASURES	T-24 Sections	e neierence on Flans of	ochequie and marcare the ap	picable exception(s)
Heating Equipment Efficiency	112(a)	12,00 HSPF	12,00 HSPF	12.00 HSPF
Cooling Equipment Efficiency	112(a)	0.0 SEER / 14.5 EER	0.0 SEER / 14.5 EER	0.0 SEER / 14.5 EER
HVAC Heat Pump Thermostat	112(b), 112(c)	Yes	Yes	Yes
Furnace Controls/Thermostat	112(c), 115(a)	n/a	n/a	n/a
Natural Ventilation	121(b)	No	No	Na
Mechanical Ventilation	121(b)	30 cfm	32 cfm	35 ctm
VAV Minimum Position Control	121(c)	No	No	No
Demand Control Ventilation	121(c)	Yes	Yes	Yes
Time Control	122(e)	Programmable Switch	Programmable Switch	Programmable Switch
Setback and Setup Control	122(e)	Setback Required	Setback Required	Setback Required
Outdoor Damper Control	122(f)	Auto	Auto	Auto
Isolation Zones	122(g)	n/a	n/a	n/a
Pipe Insulation	123	Attic, Ceiling Ins, vented / 8.0	Attic, Ceiling Ins, vented /8.0 A	ttic, Ceiling Ins, vented / 8
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES	123 124	n/a	Altic, Ceiling Ins, vented /8.0 A	n/a
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load	123			
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load	123 124 144(a & b)	n/a	n/a 8,919 Btu/m n/a	n/a 8,919 Blu/hr n/a
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity	123 124 144(a & b) 144(a & b)	n/a 8,919 Btu/h/	n/a 8,919 Btu/hr	n/a 8,919 Btu/hr n/a 10,846 Btu/hr
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load	123 124 144(a & b) 144(a & b) 144(a & b)	n/a 8,919 Btu/hr n/a	n/a 8,919 Btu/m n/a	n/a 8,919 Blu/hr n/a
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control	123 124 144(a & b) 144(a & b) 144(a & b)	ก/ล 8,919 Btu/กัง ก/ล 10.796 Btu/กัง	n/a 8,919 Btu/hr n/a 10,651 Btu/hr Constant Volume	n/a 8,919 Btu/hr n/a 10,846 Btu/hr
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b)	ก/ล 8,919 Btu/กัง ก/ล 10.796 Btu/กัง	n/a 8,919 Btu/m n/a 10,651 Btu/nr	n/a 8,919 Btu/hr n/a 10,846 Btu/hr
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only)	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c)	n/a 8,919 Btu/hr n/a 10,796 Btu/hr Constant Volum a	n/a 8,919 Btu/hr n/a 10,651 Btu/hr Constant Volume	n/a 8,919 Btu/hr n/a 10,846 Btu/hr Constant Volume
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c)	n/a 8,919 Btu/hr n/a 10,796 Btu/hr Constant Volume Yes	n/a 8,919 Btu/hr n/a 10,851 Btu/hr Constant Volume Yes No No Economizer	n/a 8,919 Btu/hr n/a 10,846 Btu/hr Constant Volume Yes
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d)	n/a 8,919 Btu/hr n/a 10,796 Btu/hr Constant Volume Yes No	n/a 8,919 Btu/hr n/a 10,651 Btu/hr Constant Volume Yes No	n/a 8,919 Btu/hr n/a 10,846 Btu/hr Constant Volume Yes No No Economizer Constant Temp
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(e)	n/a 8,919 Btu/hr n/a 10,796 Btu/hr Constant Volume Yes No	n/a 8,919 Btu/hr n/a 10,851 Btu/hr Constant Volume Yes No No Economizer	n/a 8,919 Btu/hr n/a 10,846 Btu/hr Constant Volume Yes No No Economizer
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset Cool Air Supply Reset	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(d) 144(e)	n/a 8,919 Btu/hr n/a 10,796 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 8,919 Btu/hr n/a 10,651 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 8,919 Btu/hr n/a 10,846 Btu/hr Constant Volume Yes No No Economizer Constant Temp
Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location	123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(c) 144(f) 144(f)	n/a 8,919 Btu/hr n/a 10,796 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 8,919 Btu/hr n/a 10,651 Btu/hr Constant Volume Yes No No Economizer Constant Temp	n/a 8,919 Btu/hr n/a 10,846 Btu/hr Constant Volume Yes No No Economizer Constant Temp

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2011-10-27711:45:56 ID: Bld. D

Project Name		MENTS	(Part 2 of 2)	MECH-2
HCC Bidg. D				10/27/201
Item or System Tags	WA	TER ² SIDE SYSTEMS; Chille	rs, Towers, Boilers, Hydro	nic Loops
(i.e. AC-1, RTU-1, HP-1)				
Number of Systems				
		Indicate Page Reference	e on Plans or Specification	,2
MANDATORY MEASURES	T-24 Sections			
Equipment Efficiency	112(a)			
Pipe Insulation	123			
PRESCRIPTIVE MEASURES				
Cooling Tower Fan Controls	144(a & b)			
Cooling Tower Flow Controls	144(h)		(1901-1911-1911-1911-1911-1911-1911-1911	
Variable Flow System Design	144(h)			
Chiller and Boiler Isolation	144(j)			
CHW and HHW Reset Controls	144(j)			
WLHP Isolation Valves	144(j)		***************************************	
VSD on CHW. CW & WLHP Pumps=5HP	144(j)			
DP Sensor Location	144(j)			
 The proposed equipment need to manex to applicable section. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. 	and hydronic loop	(or groups of similar equipment)	fill in the reference to sheet num	nber and/or specific
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where	and hydronic loop	o (or groups of similar equipment) tres are documented. If a requiren	fill in the reference to sheet numers is not applicable, put "N/A"	nber and/or specific
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where	and hydronic loop	o (or groups of similar equipment) tres are documented. If a requiren	fill in the reference to sheet num	nber and/or specific
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags	and hydronic loop	o (or groups of similar equipment) tres are documented. If a requiren Service Hot W	fill in the reference to sheet numers is not applicable, put "N/A"	nber and/or specific
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc)	and hydronic loop	o (or groups of similar equipment) tres are documented. If a requiren Service Hot W DHW Heater 1	fill in the reference to sheet numers is not applicable, put "N/A"	nber and/or specific in the column next
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc)	and hydronic loop	o (or groups of similar equipment) tres are documented. If a requiren Service Hot W DHW Heater 1	fill in the reference to sheet numer	nber and/or specific in the column next
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems	and hydronic loop the required featu	o (or groups of similar equipment) tres are documented. If a requiren Service Hot W DHW Heater 1	fill in the reference to sheet numer	nber and/or specific in the column next
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES	and hydronic loop the required featu	o (or groups of similar equipment) tres are documented. If a requiren Service Hot W DHW Heater 1	fill in the reference to sheet numer	nber and/or specific in the column next
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER	and hydronic loop the required featu	o (or groups of similar equipment) res are documented. If a requirent Service Hot W DHW Heater 1 Indicate Page Refere	fill in the reference to sheet numer	nber and/or specific in the column next
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater	and hydronic loop the required featu T-24 Sections	o (or groups of similar equipment) res are documented. If a requirent Service Hot W DHW Heater 1 Indicate Page Referent Rinnal # RC98HPI-NG	fill in the reference to sheet numer	nber and/or specific in the column next
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency	and hydronic loop the required feature. T-24 Sections 111, 113(a) 113(b)	o (or groups of similar equipment) ires are documented. If a requirent Service Hot W DHW Heater 1 Indicate Page Reference Rinnal # RC98HPI-NG 0.85 EF	fill in the reference to sheet numer	nber and/or specific in the column next
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation	T-24 Sections 111, 113(a) 113(b)	o (or groups of similar equipment) res are documented. If a requirent Service Hot W DHW Heater 1 Indicate Page Referent Rinnal # RC98HPI-NG 0.85 EF Controls Reg.	fill in the reference to sheet numer	nber and/or specific in the column next
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation Pipe Insulation	T-24 Sections 111, 113(a) 113(b)	o (or groups of similar equipment) res are documented. If a requirent Service Hot W DHW Heater 1 Indicate Page Referent Rinnal # RC98HPI-NG 0.85 EF Controls Reg.	fill in the reference to sheet numer	nber and/or specific in the column next
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation Pipe Insulation POOL AND SPA	T-24 Sections 111, 113(a) 113(b) 123	(or groups of similar equipment) res are documented. If a requirent Service Hot W DHW Heater 1 Indicate Page Referent Rinnal # RC98HPI-NG 0.85 EF Controls Reg. n/a	fill in the reference to sheet numer	nber and/or specific in the column next
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation Pipe Insulation POOL AND SPA Pool and Spa Efficiency and Control	T-24 Sections 111, 113(a) 113(b) 123	(or groups of similar equipment) res are documented. If a requirent Service Hot W DHW Heater 1 Indicate Page Referent Rinnal # RC98HPI-NG 0.85 EF Controls Reg. n/a	fill in the reference to sheet numer	nber and/or specific in the column next
next to applicable section. 2. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation Pipe Insulation POOL AND SPA Pool and Spa Efficiency and Control Pool and Spa Installation	T-24 Sections 111, 113(a) 113(b) 113(c) 123	Service Hot W DHW Heater 1 Indicate Page Reference Rinnal # RC98HPI-NG 0.85 EF Controls Reg. n/a	fill in the reference to sheet numer	nber and/or specific in the column next
next to applicable section. For each chiller, cooling tower, boiler, section and paragraph number where applicable section. Item or System Tags (i.e. WH-1, WHP, DHW, etc) Number of Systems MANDATORY MEASURES SERVICE HOT WATER Certified Water Heater Water Heater Efficiency Service Water Heating Installation Pipe Insulation POOL AND SPA Pool and Spa Efficiency and Control Pool and Spa Installation Pool Heater — No Pilot Light	111, 113(a) 113(b) 114(a) 115(c) 115(d) 123	Cor groups of similar equipment) Service Hot W DHW Heater 1 Indicate Page Reference Rinnal # RC98HPI-NG 0.85 EF Controls Reg. n/a n/a n/a Reguired Required	fill in the reference to sheet number is not applicable, put "N/A" /ater, Pool Heating nice on Plans or Schedule ²	iber and/or specific in the column next

AIR SYSTEM REQUI	REMENTS		(Part 1 of		MECH-2C
Project Name HCC <i>Bldg.</i> : D					Date 10/27/2011
	Indic	ate Air Systems Type (Cent	ral, Single Zone, Packa	ge, VAV,	or etc)
Item or System Tags (i.e. AC-1, RTU-1, HP-1)		AC-D-4	CU/ACC-D-2		AC-D-5
Number of Systems					
	Indicate Pa	ge Reference on Plans or Sc	chedule and indicate the	applica	ble exception(s)
MANDATORY MEASURES	T-24 Sections				
Heating Equipment Efficiency	112(a)	80% AFUE	12.00 HSPF		80% AFUE
Cooling Equipment Efficiency	112(a)	12.0 SEER / 12.7 EER	0.0 SEER / 14.5 EER	12.0	SEER/12.7 EER
HVAC Heat Pump Thermostat	112(b), 112(c)	n/a	Yes		n/a
Furnace Controls/Thermostat	112(c), 115(a)	n/a	n/a		n/a
Natural Ventilation	121(b)	Yes	Yes		Yes
Mechanical Ventilation	121(b)	595 cfm	32 cfm		695 cfm
VAV Minimum Position Control	121(c)	No	Na		No
Demand Control Ventilation	121(c)	Yes	Yes		Yes
Time Control	122(e)	Programmable Switch	Programmable Switch	Pro	grammable Switch
Setback and Setup Control	122(e)	Setback Required	Setback Required	s	etback Required
Outdoor Damper Control	122(f)	Auto	Auto		Auto
Culdou Damper Cultura					
Isolation Zones		n/a	n/a		n/a
하는 이번 이름을 가장 사람을 가장 시험을 가장 하였다.	122(g) 123	n/a	n/a		n/a
solation Zones Pipe Insulation	122(g)	n/a Aftic, Ceiling Ins, vented / 8.0	n/a Attic, Roof Ins / 8,0	Attic, C	
Isolation Zones Pipe Insulation Duct Location/: R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load	122(g) 123 124			Attic, C	
Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity	122(g) 123 124 144(a & b) 144(a & b)	Aftic, Ceiling Ins, vented / 8.0	Attic, Roof Ins / 8,0	Attic, C	eiling Ins, vented /8.0 n/a
Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load	122(g) 123 124 144(a & b) 144(a & b)	Aftic, Ceiling Ins, vented / 8.0 n/e 48,000 Btu/hr	Attic, Roof Ins /8.0 n/a 8;919 Btu/hr	Attic, C	eiling Ins, vented /8.0 n/a 48,000 Btu/hr
Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity	122(g) 123 124 144(a & b) 144(a & b) 144(a & b)	n/a 48,000 Blu/hr	Attic, Roof ins / 8,0 n/a 8,919 Btwhr n/a		eiling Ins, vented /8.0 n/a 48,000 Btwhr
Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control	122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b)	Aftic, Ceiling Ins, vented / 8.0 n/e 48,000 Btu/hr n/e 51,148 Btu/hr	Attic, Roof ins / 8,0 n/a 8,919 Btw/hr n/a 10,824 Btw/hr		eiling Ins, vented / 8.0 n/a 48,000 Btwhr n/a 40,207 Btwhr
Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location	122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c)	Aftic, Ceiling Ins, vented / 8.0 n/e 48,000 Btu/hr n/e 51,148 Btu/hr	Attic, Roof ins / 8,0 n/a 8,919 Btw/hr n/a 10,824 Btw/hr		eiling Ins, vented / 8.0 n/a 48,000 Btwhr n/a 40,207 Btwhr
Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only)	122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c)	n/a 1/a 48,000 Btu/hr 1/a 51,148 Btu/hr Constant Volume	Attic, Roof ins / 8,0 n/a 8,919 Btu/hr n/a 10,824 Btu/hr Constant Volume		n/a n/a 48,000 Btwhr n/a 40,207 Btwhr
Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity	122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d)	n/a 18,000 Blu/hr 11,148 Blu/hr Constant Volume Yes	Attic, Roof ins / 8,0 In/a 8,919 Btw/hr In/a 10,824 Btu/hr Constant Volume	C	n/a n/a 48,000 Btwhr n/a 40,207 Btwhr constant Volume Yes
Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool	122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(d) 144(d)	n/a 18,000 Btu/hr 19,148 Btu/hr Constant Volume Yes No	Attic, Roof ins / 8,0 n/a 8,919 Btw/hr n/a 10,824 Btw/hr Constant Volume Yes No	d	n/a n/a 48,000 Btwhr n/a 40,207 Btwhr constant Volume Yes No
Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset	122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(d) 144(f)	n/a 18,000 Blu/hr 1/a 11,148 Blu/hr Constant Volume Yes No No Economizer	Attic, Roof ins / 8,0 In/a 8,919 Btw/hr In/a 10,824 Btu/hr Constant Volume Yes No No Economizer	C	n/a 18,000 Btwhr 19,207 Btwhr Constant Volume Yes No No Economizer
Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset Cool Air Supply Reset	122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(f) 144(f)	Aftic, Ceiling Ins, vented / 8.0 n/a 48,000 Btu/hr n/a 51,148 Btu/hr Constant Volume Yes No No Economizer Constant Temp	Attic, Roof ins / 8,0 n/a 8,919 Btu/hr n/a 10,824 Btu/hr Constant Volume Yes No No Economizer Constant Temp	C	n/a 1/a 48,000 Btu/hr n/a 40,207 Btu/hr constant Volume Yes No No Economizer Constant Temp
Isolation Zones Pipe Insulation Duct Location/ R-value PRESCRIPTIVE MEASURES Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset	122(g) 123 124 144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d) 144(d) 144(f)	Aftic, Ceiling Ins, vented / 8.0 n/a 48,000 Btu/hr n/a 51,148 Btu/hr Constant Volume Yes No No Economizer Constant Temp	Attic, Roof ins / 8,0 n/a 8,919 Btu/hr n/a 10,824 Btu/hr Constant Volume Yes No No Economizer Constant Temp	C	n/a 1/a 48,000 Btu/hr n/a 40,207 Btu/hr constant Volume Yes No No Economizer Constant Temp

Project Name HCC Bldg.													Date 10/27	/2011
		MECH	IANICAL	VENTILATION	ON (§121(b)2)				REHE	AT LIMITA	TION (§144	(d))	
		AR	EA BASIS		oco	CUPANCY	BASIS				VAV MIN		}	
	A	В	С	D	E	F	G	н	ı	J	к	L	М	N
-	10	Condition Area	CFM per ft²	Min CFM By Area	Number Of	CFM per	Min CFM by Occupant	REQ'D V.A. Max of	Design Ventilation Air	50% of Design Zone Supply	B X 0.4	Max. of Columns H, J, K,	Design Minimum Air	Transfe
Zone -4	e/System	(ft²) 714	π 0.38	B X C 271	People Person EXF Dor G CFM					CFM	CFM / ft²	300 CFM	Setpoint	Air
Zone- 4A		440	0.15	66	1.3	0.0	0	66	0				***************************************	6
AC-D-4		770	0.70		7.5	0.0	Total	661	595	***************************************				<u>-</u>
Zone-7		213	0.50	107	2.1	15.0	32	107	32					7
CU/ACC-D-2							Total	107	32					
Zone-5		714	0.38	271	39.7	15.0	595	595	595	***				
Zone- 5A		242	0.15	36	3.5	15.0	53	53	53	***************************************				
Zone -5B		314	0.15	47				47	47					
AC-D-5	······						Total	695	695					
Zone-2		1,077	0.50	539	21.5	15.0	323	539	323	***************************************				21
Zone -2A		314	0.15	47	***************************************			47	47	***************************************	***************************************			
Zone- 2B		586	0.15	88	7.2	15.0	108	108	108					
AC-D-2							Total	694	478					
Zon e -1		1,034	0.38	393	21.1	15.0	317	393	317					7
Zone-1A		40	0.15	6	0.8	15.0	12	12	12					
				Totals						Column I Total	Design Ven	tilation Air		
С	Minimum ventilati	on rate per Section	on §121, T	able 121-A.										
E	Based on fixed se	eat or the greater	of the expe	cted number	of occupant	s and 50%	of the CBC oc	cupant load	for egress pu	rposes for space	s without fix	ed seating.		
Н	Required Ventilat	ion Air (REQ'D V	A.) is the la	arger of the ve	ntilation rat	es calculate	d on an AREA	BASIS or	OCCUPANCY	BASIS (Column	D or G).			
l l	Must be greater t	han or equal to H	, or use Tra	nsfer Air (col	umn N) to m	ake up the	difference.							
J	Design fan supply	y CFM (Fan CFM	x 50%; or	the design zo	ne outdoor	airflow rate	per §121.							
K	Condition area (ft	2) x 0.4 CFM / ft2	or			·	· · · · · · · · · · · · · · · · · · ·				***************************************			
L	Maximum of Colu	ımns H, J, K, or 3	00 CFM											
M	This must be less	than or equal to	Column La	and greater th	an or equal	to the sum	of Columns H	plus N.						
N	Transfer Air must equal to the differ	be provided whe ence between th	re the Required le Required	uired Ventilati Ventilation A	on Air (Colu ir (Column I	mn H) is gre H) and the D	eater than the Design Minimu	Design Mini m Air (Colu	imum Air (Coli mn M), Colum	umn M). Where n H minus M.	required, tran	nsfer air must	be greater ti	nan or
EnergyPro 5	1 by EnergySoft	difference between the Required Ventilation Air (Column H) and the Design Minimum Air (Column M), Column H minus M. ### User Number: 2849 RunCode: 2011-10-27711:45:56 ID; Bld. D								Pa	ge 33 of 5			

Project Name	REMENTS		(Part 1 of	Date	(14년) 경우의 경우의
HCC Bldg. D				10/27/2011	
Item or System Tags	Indic		ntral, Single Zone, Package	programme construction and an experience of the	
(I.e. AC-1, RTU-1, HP-1)		AC-D-2	AC-D-1	AC-D-3	강화 강한
Number of Systems				1	
	Indicate Pag	e Reference on Plans or S	Schedule and indicate the	applicable exception(s)	
MANDATORY MEASURES	T-24 Sections				
Heating Equipment Efficiency	112(a)	80% AFUE	80% AFUE	81% AFUE	
Cooling Equipment Efficiency	112(a)	12.7 EER	12.0 SEER / 12.7 EER	12.0 SEER / 12.8 EER	
HVAC Heat Pump Thermostat	112(b), 112(c)	n/a	n/a	n/a	
Furnace Controls/Thermostat	112(c), 115(a)	n/a	n/a	n/a	
Natural Ventilation	121(b)	Yes	Yes	Yes	
Mechanical Ventilation	121(b)	478 cfm	329 cfm	595 cfm	41111
VAV Minimum Position Control	121(c)	No	No	No	
Demand Control Ventilation	121(c)	Yes	Yes	Yes	IYER & ASSO
Time Control	122(e)	Programmable Switch	Programmable Switch	Programmable Switch	Architecture Interior
Setback and Setup Control	122(e)	Setback Required	Setback Required	Setback Required	1100 Montgomery
Outdoor Damper Control	122(I)	Auto	Auto	Auto	SAN FRANCISCO, CA 415 362-4937 (IYER)
Isolation Zones	122(g)	n/a	n/a	n/a	FAX 415 362-8158
Pipe Insulation	123				2011©IYER & AS
Duct Location/ R-value	124	Attic, Ceiling Ins, vented / 8.0	Attic, Ceiting Ins, vented / 8.0	Attic, Ceiling Ins, vented / 8.0	
					Ajmani & Pamidi Mechanical & Electrical E
Proposed Heating Capacity	144(a & b) 144(a & b) 144(a & b) 144(a & b)	n/a 64,000 Btu/hr n/a 50,432 Btu/hr	n/e 48,000 Blu/hr n/e 42,066 Blu/hr	n/a 48,000 Btu/hr n/a 45,956 Btu/hr	101 California St. Suite 2 San Francisco, California Ph (415) 543-9344 Fax (4 E-mail: Mail@APincSF.co
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load	144(a & b) 144(a & b) 144(a & b)	64,000 Btu/hr n/a	48,000 Btu/hr n/e	48,000 Btu/hr n/a	San Francisco, California Ph (415) 543-9344 Fax (4
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity	144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c)	64,000 Btu/hr n/a 50,432 Btu/hr	48,000 Blu/hr n/a 42,066 Blu/hr	48,000 Btu/hr n/a 45,956 Btu/hr	San Francisco, California Ph (415) 543-9344 Fax (4
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control	144(a & b) 144(a & b) 144(a & b) 144(a & b)	64,000 Btu/hr n/a 50,432 Btu/hr	48,000 Blu/hr n/a 42,066 Blu/hr	48,000 Btu/hr n/a 45,956 Btu/hr	San Francisco, California Ph (415) 543-9344 Fax (4
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location	144(a & b) 144(c) 144(c)	64,000 Btu/hr n/a 50,432 Btu/hr Constant Volume	48,000 Blu/hr n/a 42,066 Blu/hr Constant Volume	48,000 Btu/hr n/a 45,956 Btu/hr Constant Volume	San Francisco, California Ph (415) 543-9344 Fax (4
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only)	144(a & b) 144(a & b) 144(a & b) 144(a & b) 144(c) 144(c) 144(c) 144(d)	64,000 Blu/hr n/a 50,432 Blu/hr Constant Volume Yes	48,000 Blu/hr n/e 42,066 Blu/hr Constant Volume Yes	48,000 Btu/hr n/a 45,956 Btu/hr Constant Volume Yes	San Francisco, California Ph (415) 543-9344 Fax (4
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool	144(a & b) 144(c) 144(c)	64,000 Btu/hr n/a 50,432 Btu/hr Constant Volume Yes No	48,000 Blu/hr n/e 42,066 Blu/hr Constant Volume Yes No	48,000 Btu/hr n/a 45,956 Btu/hr Constant Volume Yes No	San Francisco, California Ph (415) 543-9344 Fax (4
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer	144(a & b) 144(c) 144(c) 144(c) 144(d) 144(d) 144(e)	64,000 Btu/hr n/a 50,432 Btu/hr Constant Volume Yes No Fixed Temp (Integrated)	48,000 Blu/hr n/e 42,066 Blu/hr Constant Volume Yes No No Economizer	48,000 Btu/hr n/a 45,956 Btu/hr Constant Volume Yes No No Economizer	San Francisco, California Ph (415) 543-9344 Fax (4
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset Cool Air Supply Reset	144(a & b) 144(c) 144(c) 144(c) 144(d) 144(f) 144(f)	64,000 Btu/hr n/a 50,432 Btu/hr Constant Volume Yes No Fixed Temp (Integrated) Constant Temp	48,000 Blu/hr n/a 42,066 Blu/hr Constant Volume Yes No No Economizer Constant Temp	48,000 Btu/hr n/a 45,956 Btu/hr Constant Volume Yes No No Economizer Constant Temp	San Francisco, California Ph (415) 543-9344 Fax (4
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset Cool Air Supply Reset Electric Resistance Heating	144(a & b) 144(c) 144(c) 144(c) 144(d) 144(d) 144(f) 144(f) 144(f)	64,000 Btu/hr n/a 50,432 Btu/hr Constant Volume Yes No Fixed Temp (Integrated) Constant Temp	48,000 Blu/hr n/a 42,066 Blu/hr Constant Volume Yes No No Economizer Constant Temp	48,000 Btu/hr n/a 45,956 Btu/hr Constant Volume Yes No No Economizer Constant Temp	San Francisco, California Ph (415) 543-9344 Fax (
Calculated Design Heating Load Proposed Heating Capacity Calculated Design Cooling Load Proposed Cooling Capacity Fan Control DP Sensor Location Supply Pressure Reset (DDC only) Simultaneous Heat/Cool Economizer Heat Air Supply Reset Cool Air Supply Reset	144(a & b) 144(c) 144(c) 144(c) 144(d) 144(f) 144(f)	64,000 Btu/hr n/a 50,432 Btu/hr Constant Volume Yes No Fixed Temp (Integrated) Constant Temp	48,000 Blu/hr n/a 42,066 Blu/hr Constant Volume Yes No No Economizer Constant Temp	48,000 Btu/hr n/a 45,956 Btu/hr Constant Volume Yes No No Economizer Constant Temp	San Francisco, California Ph (415) 543-9344 Fax (4

Project Name HCC Bldg	D					,							Date 10/27/	/2011
		MECH	IANICAL	VENTILATIO	ON (\$121(b)2)				REHE	AT LIMITA	TION (§144	(d))	
	***************************************	1	EA BASIS			CUPANCY	BASIS				VAV MIN		122	
***************************************	Α	в	С	D	E	F	G	н	1	J	к	L	м	N
Zone/	System	Condition Area (ft²)	CFM per ft²	Min CFM By Area B X C	Number Of People	CFM per Person	Min CFM by Occupant E X F	REQ'D V.A. Max of D or G	Design Ventilation Air CFM	50% of Design Zone Supply CFM	B X 0.4 CFM / ft ²	Max. of Columns H, J, K, 300 CFM	Design Minimum Air Setpoint	Transfer Air
AC-D-1							Total	405	329					
Cone -3		714	0.38	271	39.7	15.0	595	595	595					
AC-D-3							Tota <i>l</i>	595	595	·····				
Zone 6		236	0.50	118	2.0	15.0	30	118	30					88
CU/ACC-D-1							Totai	118						
Zone 8	***************************************	213	0.50	107	2.1	15.0	32	107	32					75
CU/ACC-D-3		·				***************************************	Total	107	32	***************************************				
Zone 9 CU/ACC-D-4		236	0.50	118	2.4	15.0	35 Total	118 118						83
				Totals						Column I Total	Design Ven	tilation Air		
C E		ion rate per Secti			of occupant	s and 50%	of the CBC oc	cupant load	for egress pu	rposes for space	s without fixe	ed seating.		
Н	Required Ventila	tion Air (REQ'D V	.A.) is the la	arger of the ve	ntilation rat	es calculate	d on an AREA	BASIS or	OCCUPANCY	BASIS (Column	D or G).			
ı	Must be greater t	han or equal to H	, or use Tra	ınsfer Air (colu	umn N) to m	ake up the	difference.							
J	Design fan suppl	y CFM (Fan CFM) x 50%; or	the design zo	ne outdoor	airflow rate	per §121.				*************			
К	Condition area (f	t ²) x 0.4 CFM / ft ²	or											
L	Maximum of Colu	umns H, J, K, or 3	00 CFM											
M	This must be less	s than or equal to	Column La	and greater the	an or equal	to the sum	of Columns H	plus N. Design Min	imum Air (Col	umn M) Where	required tran	nsfer air must	he greater th	an or
N	equal to the diffe	rence between th	e Required	Ventilation A	ir (Column I	H) and the D	Design Minimu	m Air (Colu	mn M). Colum	n H minus M.	quii ou; u ci	or or most	grounds ti	

EnergyPro 5.1 by EnergySoft User Number: 2849 RunCode: 2011-10-27T11:45:56 ID: Bld. D

CENTER TITLE-24 COMPLIANCE FORMS

BUILDING "D"

HINDU COMMUNITY and CULTURAL

1200 ARROWHEAD AVE. LIVERMORE, CA 94551

Page 30 of 59

REVISIONS

ISSUE FOR PERMIT 10-28-11

T-24.4

DATE 10/28/11 SCALE: NONE

DRAWN BY: PT

PROJECT: ARROWHEAD

	IPMENT	DET	AILS									(Part 1	of 2)	ı	AECH-50
Project Name														Date	***************************************
HCC Bldg. D														10	/27/2011
CHILLER AND TOWER SUI	MARY														
												F	PUMPS		
Equipment Name	ı	Туре		Qty.	l	Efficie	nev	Ton		Qty.	GPI		знр		Pump Control
Edd priorit rearro		.,,,,,	************************	† 	-										
					—										
				—											
DHW / BOILER SUMMARY															
A N	-					04.	Dated Inc.		ol.	Energy Fa	ctor	Standby L		k Ext. Value	Cantria
System Name Rinnai # RC98HPI-NG	Type Instant		<u>-</u> -	Nistribution Kitchen F		Qty.	Rated Inpu		als). 0	or RE	0.85	or Pilot	n/a	vaiue n/a	Status N
timai # RC96FFI-NG	iristant	Gas		NICHELLE	-ipe ms	<u></u>	199,0	-			0.00		IVA	IVa	
								_							
MULTI-FAMILY CENTRAL V	NATER HEA	TING I	DETAILS				<u> </u>								
			Vater Pump								Н	ot Water Pi	ping Lengt		
Control		Qty.	HP			Тур	6			In Plenum		Outside	Burled	Add	1/2" Insulation
Management (1987)			ļ	ļ											
				<u> </u>											
CENTRAL SYSTEM RATING	<u> 38</u>						HEATING					COOLING			
Suptam Nama		Tyro		Qtv. Out		—			oncv.	Output		Efficiency		Stat	Status
System Hame	tem Name Type				Output		Air kW	Efficie							
Trane VHC-060	Packan	Packaged DX						Efficie 80°						2.7 FFR	
				3		48,000	0.0	809	% AFUE 00 HSPI	E	62,400	12.	0 SEER/1: 0 SEER/1:		New New
12RLS/AOU112RLS	Split D)	<		3 4	4	48,000 16,000	0.0 0.0	809 12.0	% AFUE 00 HSPI	=	62,400 12,000	12.	0 SEER/1: 0 SEER/1:		New
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12RLS/AOU112RLS Trane YHC-072	Split D)	ed DX		3 4 1	1	48,000 16,000 64,000	0.0 0.0 0.0	809 12.0 809	% AFUE 00 HSPI % AFUE		62,400 12,000 72,500	12. 0.	0 SEER / 1: 0 SEER / 1: 1:	4.5 EER 2.7 EER	New New New
Trane YHC-060 12RLS/AOU112RLS Trane YHC-072 Trane YHC-048	Split D>	ed DX		3 4 1	1	48,000 16,000 64,000	0.0 0.0 0.0	809 12.0 809	% AFUE 00 HSPI % AFUE		62,400 12,000 72,500	12. 0.	0 SEER / 1: 0 SEER / 1: 1:	4.5 EER 2.7 EER	New New New
12RL S/AOU112RLS Trane YHC-072 Trane YHC-048	Split D) Packag Split D)	ed DX		3 4 1	1	48,000 16,000 64,000	0.0 0.0 0.0	809 12.0 809	% AFUE 00 HSPI % AFUE		62,400 12,000 72,500	12. 0.	0 SEER / 1: 0 SEER / 1: 1:	4.5 EER 2.7 EER	New New New
12RLS/AOU112RLS Trane YHC-072	Split D) Packag Split D)	ed DX		3 4 1	1	48,000 16,000 64,000	0.0 0.0 0.0	809 12.0 809	% AFUE 00 HSPI % AFUE		62,400 12,000 72,500 49,450	12. 0.	0 SEER / 1: 0 SEER / 1: 1:	4.5 EER 2.7 EER 2.8 EER	New New New New
12RLS/AOU112RLS Trane YHC-072 Trane YHC-048 CENTRAL SYSTEM FAN SI	Split D) Packag Split D)	ed DX		3 4 1 1 1 1	1	48,000 16,000 64,000 48,000	0.0 0.0 0.0 0.0	809 12.0 809	% AFUE 90 HSPI % AFUE % AFUE	SUPPL	62,400 12,000 72,500 49,450 Y FAN	12. 0. 12.	0 SEER/1: 0 SEER/1: 1: 0 SEER/1:	4.5 EER 2.7 EER 2.8 EER RETURI	New New New New
12RLS/AOU112RLS Trane YHC-072 Trane YHC-048 CENTRAL SYSTEM FAN SL System Name	Split D) Packag Split D)	X ed DX X	Fan Type	3 4 1 1 1 1	1	48,000 16,000 64,000 48,000 Econor	0.0 0.0 0.0	809 12.0 809	% AFUE 90 HSPI % AFUE % AFUE	SUPPL	62,400 12,000 72,500 49,450 Y FAN	12. 0. 12.	0 SEER / 1: 0 SEER / 1: 1:	4.5 EER 2.7 EER 2.8 EER RETURI	New New New New
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IZRLS/AOU112RLS Trane YHC-072 Trane YHC-048 CENTRAL SYSTEM FAN SI System Name Trane YHC-080 12RLS/AOU112RLS	Split D) Packag Split D)	eed DX X Cons Cons	Fan Type	3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A A	48,000 16,000 64,000 48,000 Econor omizer	0.0 0.0 0.0 0.0 0.0	809 12.0 809	% AFUE 90 HSPI % AFUE % AFUE	SUPPL CFM 2,000	62,400 12,000 72,500 49,450 Y FAN	12. 0. 12. BHP	0 SEER/1: 0 SEER/1: 1: 0 SEER/1:	4.5 EER 2.7 EER 2.8 EER RETURI	New New New New
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12RL S/AOU112RLS Trane YHC-072 Trane YHC-048 CENTRAL SYSTEM FAN SI	Split D) Packag Split D)	Cons Cons Cons	Fan Type tant Volume tant Volume tant Volume	3 4 1 1 1	No Econo No Econo No Econo Fixed Ter	48,000 16,000 64,000 48,000 Econor omizer omizer omizer mp (Integ	0.0 0.0 0.0 0.0 0.0	809 12.0 809	% AFUE 90 HSPI % AFUE % AFUE	SUPPL CFM 2,000 430 2,500	62,400 12,000 72,500 49,450 Y FAN	12. 0. 12. BHP 1.00 0.32 1.00	0 SEER/1: 0 SEER/1: 1: 0 SEER/1:	A.5 EER 2.7 EER 2.8 EER RETURI M none none	New New New New
IZRLS/AOU112RLS Trane YHC-072 Trane YHC-048 CENTRAL SYSTEM FAN SI System Name Trane YHC-080 12RLS/AOU112RLS Trane YHC-072	Split D) Packag Split D)	Cons Cons Cons	Fan Type tant Volume tant Volume tant Volume	3 4 1 1 1	No Econo No Econo No Econo Fixed Ter	48,000 16,000 64,000 48,000 Econor omizer omizer omizer mp (Integ	0.0 0.0 0.0 0.0 0.0	809 12.0 809	% AFUE 90 HSPI % AFUE % AFUE	SUPPL CFM 2,000 430 2,500	62,400 12,000 72,500 49,450 Y FAN	12. 0. 12. BHP 1.00 0.32 1.00	0 SEER/1: 0 SEER/1: 1: 0 SEER/1:	A.5 EER 2.7 EER 2.8 EER RETURI M none none	New New New New

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Project Name ICC Bldg. D															Date	10/27/2	011
ONE SYSTEM SUMA	IARY																
					SYSTEM		VAV		Fan								
Zone Name		System	Name	Т	урв	Qty.	Heating	Cooling	Min CFM Ratio	Rehe	at Coll	CFM	внр	Fan Cycles	ECM Motor		side Jir
one-5	CAV	Box/No i	Reheat	VAV Box		1	0		100 %	None							
one-1	CAV	Box/No i	Reheat	VAV Box		1	0		100 %	None							
ne-1A	CAV	Box/No i	Reheat	VAV Box		1	0		100 %	None							
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EXHAUST FAN					EXHAU	ST FAN					EX	HAUST FAN					
Room Name		Qty.	CFM	ВНР		Room N	lame	Qty.	CFM	BHP		Room N	lame		Qty.	CFM	ВН
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<u>ENVE</u> L	OPE MANDATORY ME	ASURES: NONRESIDEN	TIAL	ENV-MN
Project Name HCC Bldg				Date 10/27/2011
DESCRI				
Building E	nvelope Measures:			
§118(a):	Standards for insulating material, Title			
§118(c):	All Insulating Materials shall be instal Sections 2602 and 707 of Title 24, Pa	led in compliance with the flame spread art 2.	rating and smoke de	nsity requirements of
§118(f):	The opaque portions of framed demis of no less than R-13 between framing	sing walls in nonresidential buildings sha g members.	all have insulation with	an installed R-value
§117(a):	weatherstripped or otherwise sealed.			
§116(a) 1:	window area, 0.3 cfm/ft.2 of door area	and exterior doors shall have air infiltrati a for residential doors, 0.3 cfm/ft.² of doc .² for nonresidential double doors (swing	or area for nonresiden	g 0.3 cfm/ft.² of tial single doors
§116(a) 2:	Fenestration U-factor shall be rated i	n accordance with NFRC 100, or the ap	plicable default U-fact	or.
§116(a) 3:	Fenestration SHGC shall be rated in applicable default SHGC.	accordance with NFRC 200, or NFRC 1	00 for site-built fenes	ration, or the
§116(b):	Site Constructed Doors, Windows an weatherstripped (except for unframed	d Skylights shall be caulked between the	e unit and the building	, and shall be

IGHTIN.	IG MANDATORY MEASURES: NONRESIDENTIAL	LTG-MI				
roject Name CC Bldg.	Δ	Date 10/27/2011				
	ghting Measures:	10/21/2011				
	ut-off Controls					
<del></del>	For every floor, all interior lighting systems shall be equipped with a separate automatic control. This automatic control shall meet the requirements of Section 119 and may be an occupancy switch, or other device capable of automatically shutting off the lighting.  Override for Building Lighting Shut-off: The automatic building shut-off system is provided with	sensor, automatic time				
§119(h):	override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.  Automatic Control Devices Certified: All automatic control devices specified are certified, all a	ulternate equipment shal				
§111:	be certified and installed as directed by the manufacturer.  Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are Directory. All installed fixtures shall be certified.	certified and listed in the				
§131(a):	Individual Room/Area Controls: Each room and area in this building is equipped with a separasensor device for each area with floor-to-ceiling walls.	ate switch or occupancy				
§131(b):	Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet a per square foot of lighting load shall be controlled with bi-level switching for uniform reduction room.					
§131(c):	Daylight Area Control: All rooms with windows and skylights that are greater than 250 square the effective use of daylight in the area shall have 50% of the lamps in each daylit area control or the effective use of daylight cannot be accomplished because the windows are continuously the adjacent lot. Diagram of shading during different times of the year is included on plans.	lled by a separate switc				
§131(c):	Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or	less.6.				
utdoor	Lighting Measures:					
§130(c)1:	Mandatory lighting power determination for medium base sockets without permanently installed	ed ballasts				
§132(a):	All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least 60 lumens per Watt or are controlled by a motion sensor.					
§132(b):	All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking I canopies, and all outdoor sales areas meet the Cutoff Requirements.	ots, building entrances,				
§132(c)1:	All permanently installed outdoor lighting meets the control requirements listed.					
§132(c):	Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Levilisted.	vel Lighting Requiremen				
armi Ora E 1	by EnergySoft User Number: 2849 RunCode: 2011-10-27T11:45:56 ID: Bld. D	Page 38 of				

Project Name	CONTROLS CREDIT	WORKSHE	ET	(Part 1		LTG-2C		
HCC Bldg. D						10/27/2011		
	STMENT FACTORS (PAF) FO				Anal Consults II :	ad as 45:-		
schedule are or	Worksheet Must Be Filled Out fo	or Conditioned an	a unconamone	a Spaces. Con	troi Creans iist	ea on this		
☐ CONDITIONED SPACES ☐ UNCONDITIONED SPACES								
Α	В	С	D	Е	F	G		
Room # Zone ID Areas	Lighting Control Description	Plan Reference	Room Area	Watts of Control Lighting	Power Adjustments Factor ²	Control Credit Watts (E x F)		
	Occ Sensor - Hallway	L2	440	150	0.25	3		
Corridor # 1	Occ Sensor - Hallway	L2	150	90	0.25	2		
Storage Rm #113	Occ Sensor - Storage	L7	56	60	0.15			
Corridor # 108	Occ Sensor - Hallway	L2	520	210	0.25	5		
Janitor Rm# 107	Occ Sensor - Storage	L7	30	60	0.15			
outhor turn to	occ consur - disrage		1 30		0.10			
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	I				PAGE TOTAL	13		
Note:								
Conditioned and	Building total of non-daylight control credit watts for all pages of LTG-2C Page 1 of 2							
Unconditioned Space shall be	Enter building total of all daylight controls credit watts from LTG-2C Page 2 of 2  BUILDING TOTAL OF ALL CONTROL CREDIT WATTS							
separately totaled	(FOR BOTH NON-DAYLIGHT AND DAYLIGHT CONTROL CREDITS) Enter in LTG-1C; Page 4: Lighting Control Credit as appropriate for CONDITIONED or UNCONDITIONED Spaces							
Description shall     Power Adjustment	l be consistent with Type of Control def ent Factor taken from Table 146-C	ined in Table 146-C			was a second and the			

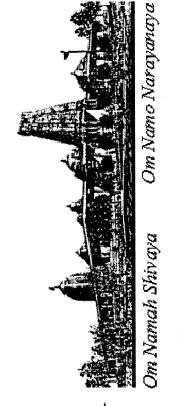
Project Name	NICAL MANDATORY MEASURES: NONRESIDENTIAL	MECH-MI Date
HCC Bldg.		10/27/201
<b>Equipme</b>	nt and System Efficiencies	
§111:	Any appliance for which there is a California standard established in the Appliance Efficiency Rewith the applicable standard.	egulations will comply
§115(a):	Fan type central furnaces shall not have a pilot light.	
§123:	Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, of 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 o
Controls		
§122(e):	Each space conditioning system shall be installed with one of the following:	
	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
~	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 independently of other isolation areas; and shall be controlled by a time control device as described.	feet; shall be provide be setback or shut off
§122(c):	Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint sto authorized personnel.	pps accessible only to
§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 ling, the control shall b
Ventilatio	n	
§121(e):	Controls shall be provided to allow outside air dampers or devices to be operated at the ventilat on these plans.	tion rates as specified
§122(f):	All gravity ventilating systems shall be provided with automatic or readily accessible manually or openings to the outside, except for combustion air openings.	perated dampers in a
§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 systemiding or space shall be certified as meeting the Acceptance Requirements for Code Complia	stems serving the
Service \	Vater Heating Systems	
§113(c)	Installation	
3.	Temperature controls for public lavatories. The controls shall limit the outlet Temperature to 11	
····	Circulating service water-heating systems shall have a control capable of automatically turning	off the circulating pun

REVISIONS BY

ISSUE FOR PERMIT
10-28-11

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TITLE-24 COMPLIANCE FORMS

BUILDING "D"

HINDU COMMUNITY and CULTURAL CENTER

1200 ARROWHEAD AVE. LIVERMORE, CA 94551

DATE
10/28/11
SCALE:
NONE
DRAWN BY:
PT
PROJECT:
ARROWHEAD



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