

ABBREVIATIONS

| | |
|---|--|
| <p>& / (E) (N) #</p> <p>A/C ACQUIS AD. ADJ. ADMIN AGGR AL. APPROX APPT ARCH. ASB ASPH ASST AUTO.</p> <p>BD BITUM BLDG BLK BLKG BM BOT</p> <p>CAB. CB CATCH CEM CER CI CL. CLKB CLG CLKG CL CLR CNTR COL COMP CONC CONN CONST CONT CORR CTR</p> <p>DBL DEP DET DIA or DIM. DIR. DISP DN D. O. DR DS DSP DWG DWR</p> <p>E EA EL ELEC ELEV EMER ENCL EO EP EQ EWC EX EXIST. EXP EXP. JT EXPO. EXT</p> <p>FA FB FD FDN FE FEC FHC FIMS FIN.</p> <p>FL FLASH. FLUOR FOF FOS FOW FR FRPF FT FTG FUR FURR FUT</p> <p>GA GALV GB GRAB BAR GEN GL GLASS GLUE LAMINATED GR GRD GYP GYPSUM</p> <p>HB HC H. C. HD HDWD HDWE HEX. HL HM HORIZ HOSP H. R. HR HT HVAC</p> <p>IC ID INSTR INSUL INT</p> <p>JAN. JT.</p> <p>LAB LAM. LAV. or L LKR LT LTG</p> <p>M MACH MACH. MAX. MB MBH MECH MED MET. or MTL MFR MH MIN MISC MASONRY MONITOR M. T. MTP MULL.</p> <p>N NIC NO. or # NOM NTS</p> <p>OA OAV OBS OC OFF. OPG OPP HAND O. R. OVHD OX.</p> <p>PTN PEG BD PHYS PJ</p> <p>PL P LAM PLAS PLWYD PR PREFAB PREP PT PTD PTD/R PTR PTS Q. T. QUARRY TILE</p> <p>R RAD. or R RD RECEPT REF REFR REINF REQD RESIL RM RO ROUGH OPENING RWD RAINWATER LEADER</p> <p>S SINK or SOUTH SC SCD SCHED SOAP DISPENSER SECT. SEC'Y SH SHR SHT SIM SLOPE SND SNR SPA SPEC SQ S/S SST STD STL STOR STRUCT SUPV SUSP SYM</p> <p>T or TRD TB TC TEL TER T & G THK TKBD TOC TP TPD TRANS TREAT. TV TYP</p> <p>UCT UL UNF UON UR or U</p> <p>VCT VERT VEST.</p> <p>W WEST W/ WC WD W/O WP WSCT WT</p> <p>YD YARD</p> | <p>AND ANGLE AT CENTER LINE PROPERTY LINE DIAMETER or ROUND EXISTING NEW PERPENDICULAR POUND or NUMBER</p> <p>AIR CONDITIONING ACQUISIT. AREA DRAIN ADJUSTABLE ADMINISTRATION AGGREGATE ALUMINUM APPROXIMATE APPOINTMENTS ARCHITECTURAL ASBESTOS ASPHALT ASSISTANT AUTOMATIC</p> <p>BOARD BITUMINOUS BUILDING BLOCK BLOCKING BEAM BOTTOM</p> <p>CABINET CATCH BASIN CEMENT CERAMIC CAST IRON CONTROL JOINT CHALKBOARD CEILING CAULKING CLOSET CLEAR COUNTER COLUMN COMPRESSED CONCRETE CONFERENCE CONNECTION CONSTRUCTION CONTINUOUS CORRIDOR COUNTERSUNK CENTER</p> <p>DOUBLE DEPRESSION DEPARTMENT DETAIL DRINKING FOUNTAIN DIMENSION DIRECTOR DISPENSER DOWN DOWN OPENING DRAIN DRY STANDPIPE DRAWING DRAWER</p> <p>EAST EACH ELEVATOR or ELEVATION ELECTRICAL ELEVATION EMERGENCY ENCLOSURE ELECTRICAL OUTLET ELECTRICAL PANEL EQUAL EQUIPMENT ELECTRICAL WATER COOLER EXAMINATION EXISTING EXPANSION EXPANSION JOINT EXPOSED EXTERIOR</p> <p>FIRE ALARM FLAT BAR FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CAB. FIRE HOSE CAB. FLAT HEAD METAL SCREW FINISH</p> <p>FLOOR FLASHING FLUORESCENT FACE OF CONCRETE FACE OF FINISH FACE OF STUDS FACE OF WALL FRAME FIREPROOFING FOOT OR FEET FOOTING FUNCTION FURRING FUTURE</p> <p>GALVEANIZED GRAB BAR GENERAL GALVANIZED IRON GLASS GLUE LAMINATED GRADE GROUND GYPSUM</p> <p>HOSE BIBB HANDICAPPED HOLLOW CORE HEAD HARDWOOD HARDWARE HEXAGON HIGH HOLLOW METAL HORIZONTAL HOSPITAL HANDRAIL HOUR HEIGHT HEATING, VENTILATING, AIR CONDITIONING</p> <p>INTERCOM INSIDE DIAMETER (DIM.) INSTRUMENTATION INSULATION INTERIOR</p> <p>JANITOR JOINT</p> <p>LABORATORY LAMINATE LAVATORY LOCKER LIGHT LIGHTING</p> <p>MEN MACHINE MATERIAL MAXIMUM MACHINE BOLT METAL BUILDING MANUFACTURE MECHANICAL MEDICINE or MEDICAL METAL MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS MASONRY OPENING MONITOR METAL THRESHOLD METAL TOILET PREPARATION MULLION</p> <p>NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE</p> <p>OVERALL OXYGEN, AIR & VACUUM OBSOLETE ON CENTER OFFICE OPENING OPPOSITE OPERATING ROOM OVERHEAD OXYGEN</p> <p>PARTITION PEG BOARD PHYSICAL POUR JOINT</p> <p>PLATE PLASTIC LAMINATE PLASTER PLYWOOD PAIR PREFABRICATED PREPARATION POINT PAPER TOWEL DISPENSER PAPER TOWEL DISPENSER & RECEPTACLE PAPER TOWEL RECEPTACLE PNEUMATIC TUBE STATION</p> <p>RISER RADIUS ROOF DRAIN RECEPTION REFERENCE REFRIGERATOR REINFORCED REQUIRED RESILIENT ROOM ROUGH OPENING REDWOOD RAINWATER LEADER</p> <p>SINK or SOUTH SOLID CORE SEAR COVER DISPENSER SCHEDULE SOAP DISPENSER SECTION SECRETARY SHELF SHOWER SHEET SIMILAR SLOPE SANITARY NAPKIN DISPENSER SANITARY NAPKIN RECEPTACLE SPACES SPECIFICATION SQUARE SERVICE SINK STAINLESS STEEL STANDARD STEEL STORAGE STRUCTURAL SUPERVISOR SUSPENDED SYMMETRICAL</p> <p>TREAD TOWEL BAR TOP OF CURB TELEPHONE TERRAZZO TONGUE AND GROOVE THICK TACKBOARD TOP OF CONCRETE TOP OF PAVEMENT TOILET PAPER DISPENSER TRANSCRIPTION TREATMENT TELEVISION TOP OF WALL TYPICAL</p> <p>UNGLAZED CERAMIC TILE UNDERWRITERS LABORATORIES UNFINISHED UNLESS OTHERWISE NOTED URINAL</p> <p>VINYL COMPOSITION TILE VERTICAL VESTIBULE</p> <p>WEST WITH WATER CLOSET WOOD WITHOUT WATERPROOF WAINSCOT WEIGHT</p> <p>YARD</p> |
|---|--|

LEGENDS

| | |
|--|--|
| | EARTH |
| | ROCK FILL |
| | SAND/MORTAR/PLASTER |
| | CONCRETE CAST IN PLACE OR PRECAST |
| | BRICK |
| | CONCRETE BLOCK |
| | STONE INCLUDES MARBLE |
| | METAL OMIT INDICATION IN THIN MATERIAL |
| | METAL LATH |
| | WOOD, FINISH |
| | WOOD, FRAMING THROUGH MEMBER |
| | WOOD, FRAMING INTERRUPTED MEMBER |
| | PLYWOOD |
| | GLASS OMIT INDICATION IN THIN MATERIAL |
| | ACOUSTIC TILE OR BOARD |
| | GYPSUM BOARD OMIT DOUBLE LINES AT SMALL SCALE |
| | INSULATION, BATT |
| | INSULATION, RIGID |
| | DEMOUNTABLE PARTITION SEE DETAIL |
| | STUD SIZE WHEN NOT TYP. |
| | PERMANENT PARTITION WHERE OCCURS |
| | TYPICAL FURRING 2" UNLESS OTHERWISE NOTED |
| | GLAZED PARTITION |
| | WIRE MESH PARTITION |
| | CHAIN LINK FENCE |
| | 1-HOUR RATED PARTITION |

SPECIAL INSPECTION REQUIRED

- (1) A SOILS ENGINEER SHALL SUBMIT A REPORT TO THE BUILDING OFFICIAL STATING THAT THE BUILDING PAD / GRADED SITE IS DETERMINED TO BE ADEQUATELY PREPARED FOR ITS INTENDED USE, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- (2) DURING CONSTRUCTION OF CAST IN PLACE FOUNDATION PIERS CBC 1701.5
- (3) ALL WELDING WITH THE EXCEPTION OF SHOP WELDING DONE IN AN APPROVED FABRICATOR'S SHOP IN ACCORDANCE WITH CBC 1701.5 CBC 1701.55 ITEM 1
- (4) PER 2010 CBC SECTION 1707 SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

DESIGN CRITERIA

SITE CLASS D
SEISMIC DESIGN CATEGORY D
WIND SPEED: 85 MPH
EXPOSURE: C
OCCUPANCY CATEGORY II
SDS : 0.818(g)
ROOF
LIVE LOAD: 20# (1/2:12)
DEAD LOAD: 15#

SYMBOLS

| | |
|--|--|
| | COLUMN LINE LETTERS IN VERT. DIRECTION NUMBERS IN HORIZ. DIRECTION |
| | DOOR SYMBOL SEE DOOR SCHEDULE |
| | WINDOW TYPE SEE WINDOW SCHEDULE |
| | LOUVER TYPE SKIP LETTERS "I" & "O" |
| | REVISION CLOUD AROUND REVISION |
| | MATCH LINE SHADED PORTION IS THE SIDE CONSIDERED |
| | WORK POINT, CONTROL POINT OR DATUM POINT |

| | |
|--|---|
| | SECTION SECTION IDENTIFICATION SHEET WHERE SECTION IS DRAWN |
| | DETAIL DETAIL IDENTIFICATION SHEET WHERE DETAIL IS DRAWN |
| | INTERIOR ELEVATION(S) ELEVATION IDENTIFICATION (UNFOLD ELEVATIONS CLOCKWISE. NO ARROWS MEANS ELEVATION NOT SHOWN.) SHEET WHERE ELEVATION IS DRAWN |
| | ROOM IDENTIFICATION ROOM NAME ROOM NUMBER |

DIANE MIRONOWSKI

OFFICE WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA

Attention:
Certificate and
Soils Report is
Required Prior to
an Inspection

Attention:
Structural
Notes and Inspection
Required
Per Schedule Form

SHEET INDEX

| | |
|--------------------------------|---------------------------|
| TS = TITLE SHEET (THIS SHEET) | HC-1 HANDICAPPED DETAILS |
| CIVIL UNDER SEPARATE PERMIT | HC-2 HANDICAPPED DETAILS |
| ARCHITECTURAL | CN-1 NOTES |
| A-2 ELEVATIONS | GC GREEN CODE NOTES |
| A-3 FLOOR PLAN | GC1 GREEN CODE NOTES |
| A-4 RESTROOM PLANS | |
| A-5 ROOF DRAINAGE | MECHANICAL |
| A-6 DETAILS | M-1 MECHANICAL NOTES |
| STRUCTURAL | M-2 MECHANICAL FLOOR PLAN |
| S-1 STRUCTURAL NOTES & DETAILS | M-3 MECHANICAL ROOF PLAN |
| S-2 DETAILS | PLUMBING |
| S-3 FOUNDATION PLAN | P-1 PLUMBING NOTES |
| S-4 SHEARWALL PLAN | P-2 PLUMBING ROOF PLAN |
| S-5 ROOF FRAMING PLAN | P-3 PLUMBING PLAN |
| S-6 SECTIONS | P-4 WASTE PLUMBING PLAN |
| S-7 SECTIONS | ELECTRICAL |
| S-8 SECTIONS | E-1 ELECTRICAL NOTES |
| S-9 SECTIONS | E-2 POWER & SIGNAL PLAN |
| S-10 SECTIONS | E-3 ELECTRICAL ROOF PLAN |
| D-3 DETAILS | |
| HFX-1 HARDY FRAME | |

AREA ANALYSIS (TYPE V B)

| BASIC ALLOWABLE | ACTUAL SQUARE FOOTAGE | UNITY EQUATION |
|-----------------|-----------------------|----------------------|
| S-1 = 9000 | 2119 SQ. FT. | 2119/9000 = 0.23<1.0 |
| B = 9000 | 1562 SQ. FT. | 1562/9000 = 0.17<1.0 |
| TOTAL | 3,681 SQ. FT. | |

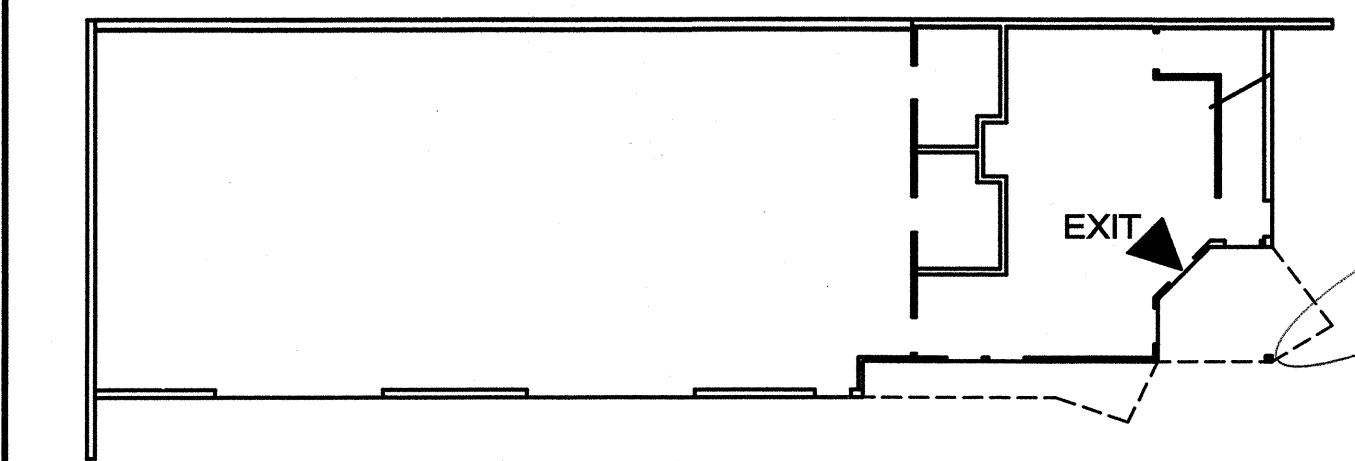
PLUMBING ANALYSIS

| TYPE/ OCCUPANCY | OCCUP. LOAD | WATER CLOSETS | URINALS | LAVATORIES |
|-----------------|-------------|---------------|---------|-------------|
| OFFICE | 15.5 | MALE FEMALE | 0 | MALE FEMALE |
| | | 1 1 | | 1 1 |

EXITING ANALYSIS

| AREA | SQ. FTGE. | OCCUP. LOAD FCTR | OCCUP. LOAD | REQ. NUM. OF EXITS |
|----------------|-----------|------------------|-------------|--------------------|
| WAREHOUSE | 2008 | 1/500 | 4 | 15.5< 49 = 1 EXIT |
| OFFICE | 154 | 1/100 | 1.5 | |
| RECEPTION AREA | 1009 | 1/100 | 10 | |

POST MAXIMUM OCCUPANT LOAD PER CODE REQUIREMENT

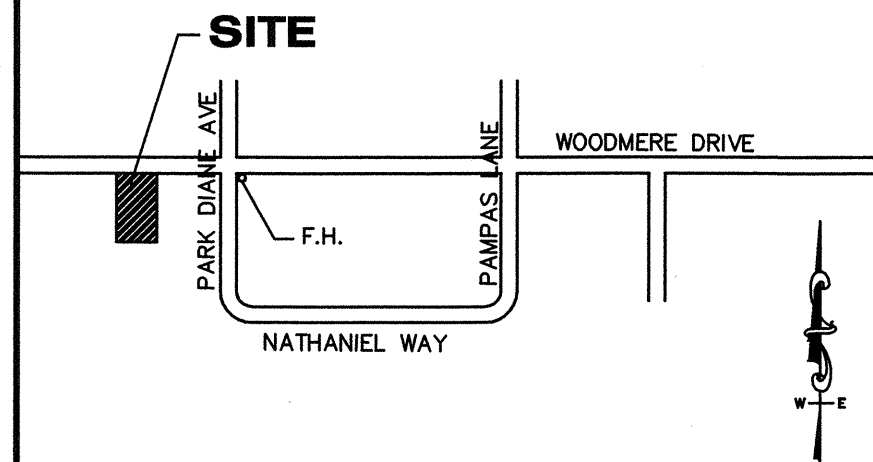


PROVIDE ILLUMINATED EXITS SIGNS PER CODE REQUIREMENTS

GENERAL NOTES

1. GENERAL
ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM WITH THE APPLICABLE PORTIONS AND EDITIONS OF THE FOLLOWING CODES.
A. CALIFORNIA ADMINISTRATIVE CODE, TITLES 19, 20, 24
B. CALIFORNIA BUILDING CODE, 2010 EDITION
C. CALIFORNIA MECHANICAL CODE, 2010 EDITION
D. CALIFORNIA PLUMBING CODE, 2010 EDITION
E. CALIFORNIA ELECTRICAL CODE, LATEST EDITION
F. PUBLIC HEALTH CODE OF THE CALIFORNIA STATE DEPARTMENT OF PUBLIC HEALTH AND LOCAL HEALTH DEPARTMENT.
G. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT, (CAL/OSHA), TITLE 8 "GENERAL SAFETY ORDERS".
H. RULES AND REGULATIONS OF THE STATE AND LOCAL FIRE MARSHALS.
J. A.D.A.A.G.
SPECIFICATIONS ARE A PART OF THIS CONTRACT AND SHALL TAKE PRECEDENCE OVER DRAWINGS. DETAILS MARKED TYPICAL ON DRAWINGS ARE INTEND TO SHOW TYPICAL CONDITIONS FOR THE ENTIRE PROJECT AND ARE TO BE USED WHERE SIMILAR CONDITIONS OCCUR.
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION WITH OTHER CONTRACTORS TO ASSURE COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS, AND THE ACCURATE LOCATION OF STRUCTURAL MEMBERS AND OPENINGS FOR MECHANICAL, ELECTRICAL, AND MISCELLANEOUS EQUIPMENT.
2. DIMENSIONS
CHECK AND VERIFY ALL DIMENSIONS BEFORE COMMENCING WITH THIS PROJECT. REPORT ALL DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING.
DIMENSIONS SHOWN ON THE DRAWINGS ARE TO CENTER LINE OF STUDS, COLUMN OR GRID LINE, OR TO FACE OF STUD PARTITIONS UNLESS OTHERWISE NOTED.
DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL USE DIMENSIONS SHOWN ON THE DRAWINGS AND ACTUAL FIELD MEASUREMENTS. NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE FOUND.
3. DOORS
UNLESS OTHERWISE NOTED DOORS SHALL BE LOCATED AS FOLLOWS:
A. WHERE DOOR FRAME IS NEXT TO ADJACENT WALL
B. IN CENTER OF WALL OF ROOM.
C. AS DIMENSIONED ON TYPICAL LAYOUT OF PARTICULAR ROOM.
5. CEILING
CEILING HEIGHT SHALL BE 8'-0" IN OFFICE FROM FINISH FLOOR TO CEILING.
CEILING SUSPENSION SYSTEMS SHALL BE STABILIZED AGAINST LATERAL MOVEMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CBC, 2010 EDITION
6. PARTITIONS
TYPICAL PARTITION SHALL BE 2X4 STUDS WITH 1/2" GYPSUM BOARD ON EACH FACE TO A HEIGHT OF 8'-6". STUD SPACING SHALL BE 16" o.c.
7. EXITS
ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

VICINITY MAP



CONSULTANTS

PASQUINI ENGINEERING
903 "H" STREET, SUITE 300
BAKERSFIELD, CA. 93304
(661) 328-9600

SOILS BY OTHERS

BUILDING DATA

APPLICABLE CODES

BUILDING: 2010 CALIFORNIA BUILDING CODE
2010 CALIFORNIA GREEN CODE
PLUMBING: 2010 CALIFORNIA PLUMBING CODE
MECHANICAL: 2010 CALIFORNIA MECHANICAL CODE
ELECTRICAL: 2010 CALIFORNIA ELECTRICAL CODE
ACCESSIBILITY: CURRENT ANSI AND ADAAG
FIRE: 2010 CALIFORNIA FIRE CODE
LIFE SAFETY: 2006 NFPA 101, LIFE SAFETY CODE

BUILDING OCCUPANCY

B/ S-1

CONSTRUCTION TYPE

5-B

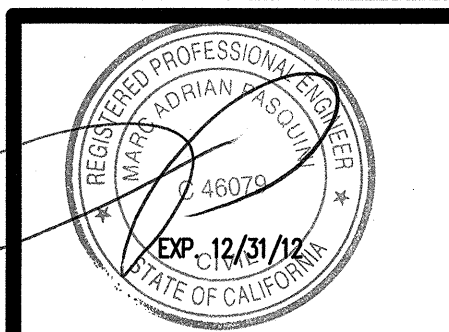
DEFERRED SUBMITTAL

DEFERRED TRUSS SUBMITTAL SHALL CONFORM TO CBC 106.3.4.2. SUBMIT TRUSS CALCULATIONS AND DRAWINGS TO PASQUINI ENGINEERING FOR REVIEW TO ENSURE CONFORMANCE WITH ALL DESIGN CRITERIA.
FORWARD THESE REVIEWED TRUSS CALCULATIONS WITH WET STAMP AND WET SIGNATURE TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO INSTALLATION
DEFERRED SUBMITTAL HANDRAIL/ GUARDRAIL. DETAILS AND CALCULATIONS

PASQUINI ENGINEERING
INCORPORATED
903 "H" STREET, SUITE 300
BAKERSFIELD, CA 93304
Telephone: (661) 328-9600
Fax: (661) 328-9030

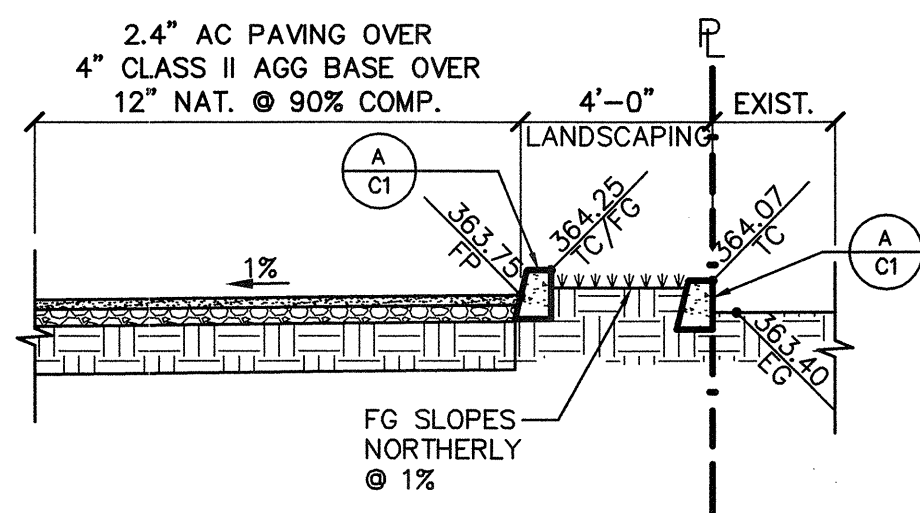
THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

DWG. BY L.H.
CHK'D BY
DATE 1/23/11
JOB NO. 6270
FILE NO. 627031



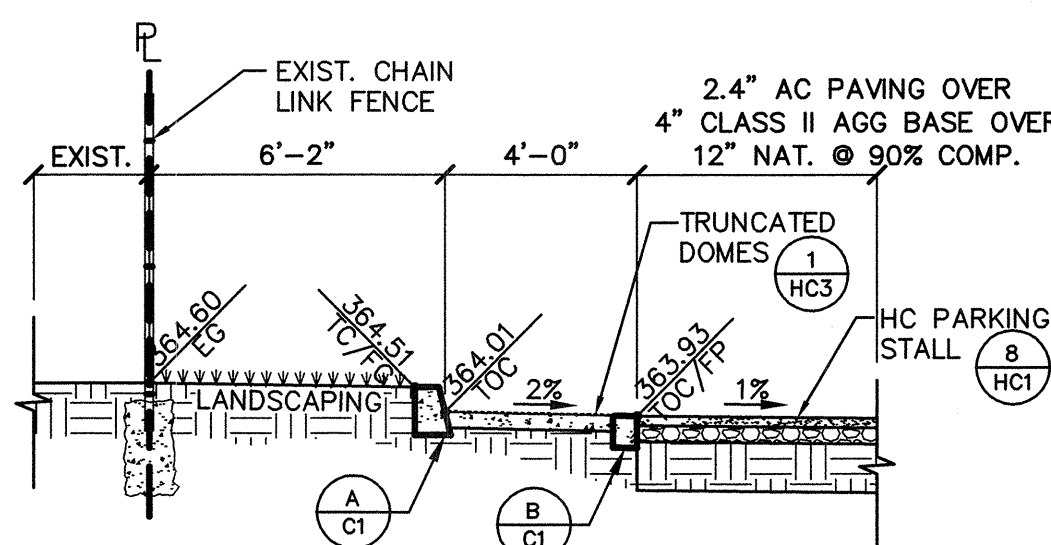
SHEET
TS
OF SHEET

CITY OF BAKERSFIELD CALIFORNIA GRADING PLAN FOR 6107 WOODMERE DR.



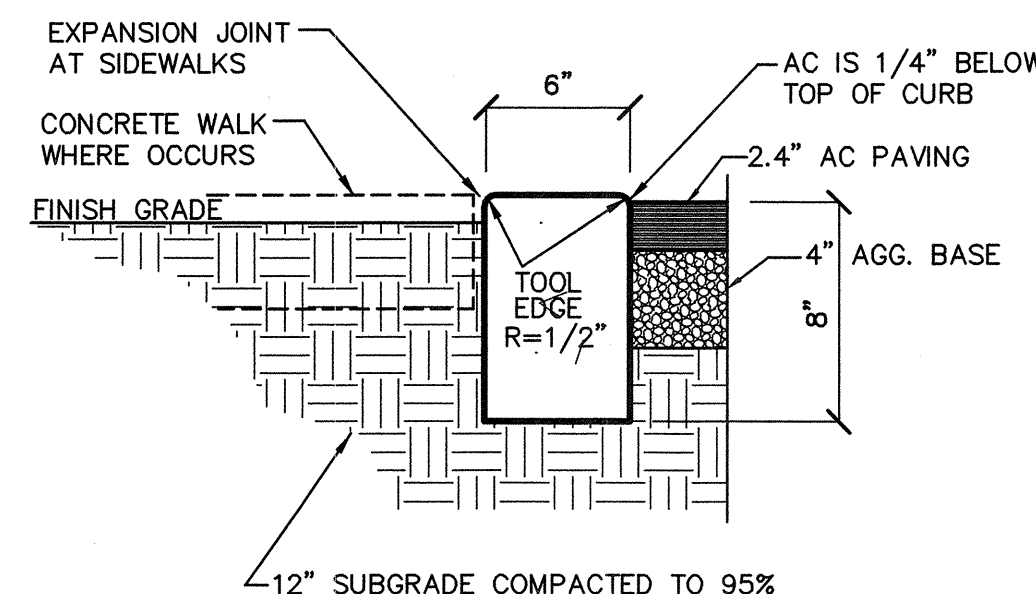
SECTION "2"

SCALE: 1/4" = 1'



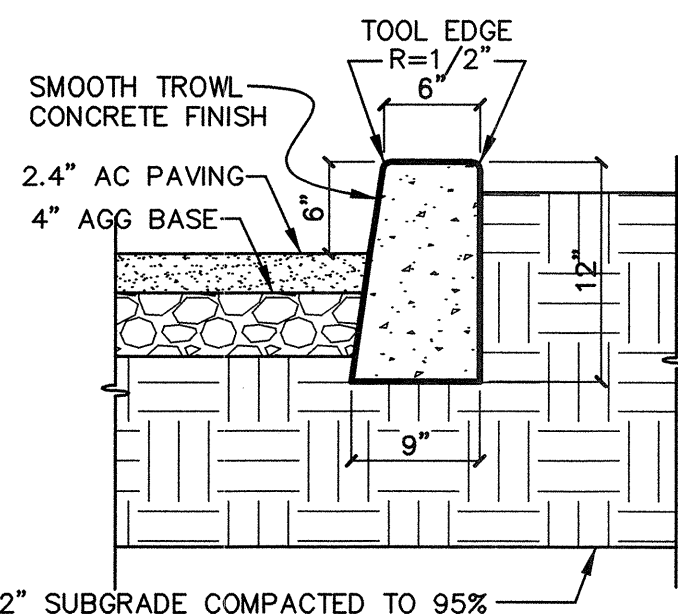
SECTION "1"

SCALE: 1/4" = 1'



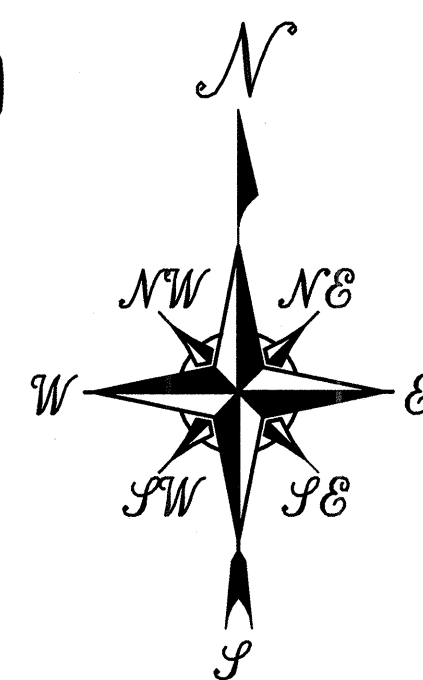
FLUSH CURB

NTS



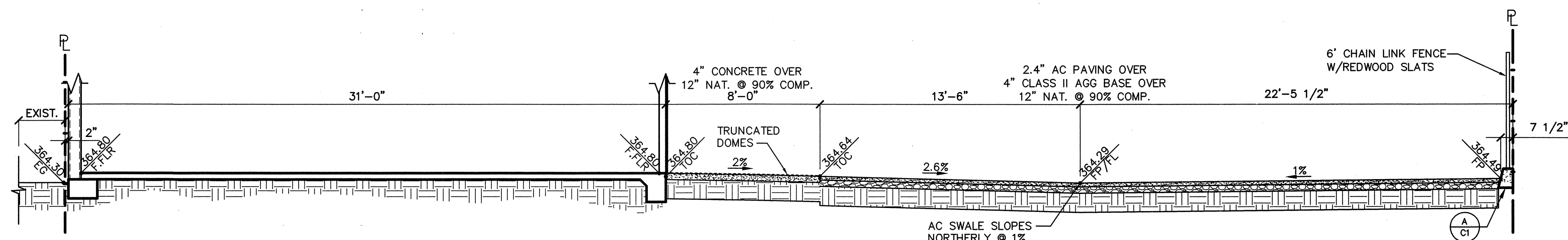
A 6" CURB

1"



VICINITY MAP

SCALE: NTS



SECTION "3"

SCALE: 1/4" = 1'

OWNER:
DIANE MIRONOWSKI

PROJECT ACREAGE:
0.22 ACRES

BENCHMARK

CHISELED "O" ON THE TOP OF CURB ON
THE WEST END OF THE SOUTHWEST CURB
RETURN OF THE INTERSECTION OF ASHE
RD. AND DISTRICT BLVD.
USGS ELEVATION = 365.310 FEET

LEGAL DESCRIPTION

APN: 499-582-24
LOT 32 PARCEL MAP
10606-1

GRADING NOTES FOR CITY OF BAKERSFIELD

1. ALL GRADING SHALL CONFORM WITH APPENDIX J - CALIFORNIA BUILDING CODE AND STANDARDS PERTAINING THEREOF AND PRELIMINARY SOILS REPORT BY KRAZAN AND ASSOCIATES DATED NOVEMBER 25, 2003.
2. ALL CUT AND/OR FILL SLOPES SHALL NOT BE STEEPER THAN TWO (2) HORIZONTAL TO ONE (1) VERTICAL.
3. ALL FILL SLOPES SHALL NOT CUT WITHIN TWELVE (12) FEET HORIZONTALLY OF THE TOP OF EXISTING AND/OR PLANNED SLOPES.
4. ALL FILL AREAS TO BE CLEARED OF ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FOR A STRUCTURE FILL AND THE AREA SCARIFIED TO A DEPTH OF SIX (6) INCHES.
5. FILL AREAS SLOPING STEEPER THAN FIVE TO ONE (5:1) SHALL BE KEYED AND BENCHED TO SUPPORT FILL.
6. FILL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING SIX (6) INCHES IN COMPACTED THICKNESS AND COMPACTED AT OPTIMUM MOISTURE CONTENT BY AN APPROVED METHOD.
7. ENGINEER/BUILDING OFFICIAL WILL BE NOTIFIED FORTY-EIGHT (48) HOURS PRIOR TO PLACING ANY FILL MATERIAL.
8. ALL FILL TO BE COMPACTED TO A MINIMUM OF NINETY (90%) PERCENT MAXIMUM DENSITY AS DETERMINED BY APPROVED METHOD PER SECTION 3305 OF THE CURRENT CA. UBC AND CERTIFIED BY TESTS AND REPORTS FROM THE SOILS ENGINEER.
9. ALL SLOPES IN EXCESS OF THREE (3) FEET MINIMUM WIDTH AND ONE (1) FOOT MINIMUM DEPTH ARE REQUIRED AT TOP OF CUT SLOPES WHEN EXISTING TERRAIN SLOPES TOWARD TOP OF CUT.
10. DIVERTER TERRACES (SWALES) WITH THREE (3) FEET MINIMUM WIDTH AND ONE (1) FOOT MINIMUM DEPTH ARE REQUIRED AT TOP OF CUT SLOPES WHEN EXISTING TERRAIN SLOPES TOWARD TOP OF CUT.
11. BERMS OR DRAINAGE DEVICES ARE REQUIRED AT TOP OF ALL FILL SLOPES.
12. SURFACE DRAINAGE TO BE ONE (1%) PERCENT MINIMUM, EXCEPT AS WAIVED BY THE BUILDING OFFICIAL.
13. CONSTRUCTION OF DRY WELL FOR COLLECTION OF ON-SITE RUN-OFFS IS NOT ACCEPTABLE, HOWEVER OTHER MEANS OF ON-SITE COLLECTION MAY BE ALLOWED IF APPROVED BY THE BUILDING DIRECTOR.
14. GRADING WORK WILL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH CHAPTER 33 OF THE CALIFORNIA BUILDING CODE.
15. THE FACES OF ALL CUT AND FILL SLOPES SHALL BE PLANTED WITH A GROUND COVER INDIGENOUS TO THE AREA.
16. THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISOR CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODE WITHIN HIS PURVIEW.
17. CUT= 100 YDS³ FILL= 300 YDS³ IMPORT= 200 YDS³ (YARDAGE FOR PERMIT PURPOSES ONLY.)

- CONNECT TO SEWER
- PROVIDE SEPTIC SYSTEM
PER GOVERNING AGENCY
STDS VERIFY SOIL TYPE

PROVIDE BLDG
PAD ADEQUATELY
PREPARED FOR
ITS INTENDED USE

SHEET INDEX:

- C-1: TITLE SHEET
A-1: SITE PLAN
C-2: GRADING PLAN
C-3: EROSION CONTROL PLAN
HC-1: HANDICAP DETAILS
HC-2: HANDICAP DETAILS
HC-3: HANDICAP DETAILS

SPR NO.:
12-0081

KEY:

- F - FLOW LINE
C - CENTER LINE
P - PROPERTY LINE
CF - CURB FACE
TC - TOP OF CURB
TOC - TOP OF CONCRETE
FC - FINISH CONCRETE
FP - FINISH PAVING
TG - TOP OF GRATE
TOD - TOP OF DRAIN
TOP - TOP OF PAVEMENT
EOP - EDGE OF PAVEMENT
BOS - BOTTOM OF SUMP
MATCH - MATCH EX. GRADE
BOW - BACK OF SIDEWALK
FG - FINISH GRADE
EG - EXISTING GRADE
DA - DRIVE APPROACH
SW - SWALE
C.B. - GRADE BREAK
TOS - TOP OF SUMP
HWL - HIGH WATER LEVEL
BTM - BOTTOM OF SUMP
INV. - INVERT
INV. - LANDSCAPING

AVOID CUTTING UNDERGROUND
UTILITY LINES. ITS COSTLY

CALL
BEFORE YOU
DIG

1-800-642-2444
NORTH AREA
1-800-422-4133
SOUTH AREA
UNDERGROUND SERVICE
ALERT (USA)

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

AN OPEN STREET PERMIT SHALL BE OBTAINED FROM THE CITY OF BAKERSFIELD PUBLIC WORKS DEPARTMENT FOR ANY WORK PERFORMED WITHIN EXISTING ACCEPTED STREET RIGHT OF WAY. UNLESS SECURED BY A SUBDIVISION AGREEMENT, SECURITY BASED ON AN APPROVED ENGINEER'S ESTIMATE FOR THE WORK PERFORMED WITHIN RIGHT OF WAY AND INSURANCE AS REQUIRED SHALL BE PROVIDED PRIOR TO ISSUANCE OF A PERMIT.

THE LANDSCAPED AREAS ARE TO BE DESIGNED AND GRADED TO MINIMIZE EXCESS LANDSCAPE DRAINAGE ACROSS THE SIDEWALK FOR ANY AREAS OVER 2%.

GRADING NOTES

U.N.O.

1. AREAS TO RECEIVE COMPACTED SITE FILL OR TO SUPPORT FOUNDATIONS, SLABS OR PAVEMENTS SHALL BE STRIPPED OF ALL VEGETATION, DEBRIS OR DISTURBED SOILS. STRIPPING SHOULD BE REVIEWED BY THE PROJECT GEOTECHNICAL ENGINEER. ALL EXISTING FILL SOIL SHALL BE EXCAVATED UNLESS THE PROJECT GEOTECHNICAL ENGINEER SPECIFICALLY RECOMMENDS THAT SUCH FILL IS TO REMAIN IN PLACE. ANY EXPOSED SOFT, LOOSE, POROUS OR OTHERWISE UNSATISFACTORY SOILS SHALL THEN BE EXCAVATED TO THE DEPTHS INDICATED IN THE PLANS OR SPECIFICATIONS, OR BY THE PROJECT SOIL REPORT, OR GEOTECHNICAL ENGINEER. THE EXCAVATION OF EXISTING FILL OR OTHER UNSATISFACTORY SOILS SHALL EXTEND LATERALLY BEYOND THE LIMIT OF FOUNDATIONS, SLABS OR PAVEMENTS THE DISTANCE INDICATED IN THE SPECIFICATIONS OR PLANS, OR BY THE PROJECT GEOTECHNICAL ENGINEER. THE EXCAVATED AREAS SHALL BE OBSERVED BY THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO PREPARING SUBGRADE AND PLACING COMPACTED FILL.
2. THE EXPOSED APPROVED NATURAL GROUND SURFACE SHALL THEN BE SCARIFIED TO A DEPTH OF AT LEAST SIX INCHES, BROUGHT TO OPTIMUM MOISTURE AS DIRECTED BY THE GEOTECHNICAL ENGINEER, AND THEN COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM LABORATORY DENSITY AS DETERMINED BY THE ASTM COMPACTION METHOD DESCRIBED BELOW. WHERE FILL IS TO BE PLACED ON OR AGAINST SLOPING GROUND (STEEPER THAN 5:1), KEYING AND BENCHING INTO FIRM NATURAL GROUND SHALL BE PERFORMED AS THE COMPACTED FILL IS BROUGHT TO FINAL GRADE.
3. FILL, CONSISTING OF SOIL REVIEWED BY THE PROJECT GEOTECHNICAL ENGINEER, SHALL BE PLACED IN COMPACTED LAYERS WITH APPROPRIATE COMPACTION EQUIPMENT. ALL SITE & IMPORTED FILL SHALL BE REVIEWED BY THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO USE IN FILL AREAS. ROCKS LARGER THAN SIX INCHES IN DIAMETER SHALL NOT BE USED. THE MOISTURE CONTENT OF THE FILL SOILS SHALL BE BROUGHT TO OPTIMUM MOISTURE AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
4. FILL AND THE UPPER SIX INCHES OF THE SUBGRADE SHALL BE UNIFORMLY COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY FOR THE MATERIAL USED. THE MAXIMUM LABORATORY DRY DENSITY FOR SUCH SITUATIONS SHALL BE DETERMINED BY THE ASTM D1557-02E1 COMPACTION METHOD. CRUSHED GRAVEL MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM LABORATORY DRY DENSITY FOR THE MATERIAL USED. THE MAXIMUM DRY DENSITY FOR CRUSHED GRAVEL MATERIAL SHALL BE DETERMINED BY THE CALIFORNIA TEST NO. 216 COMPACTION METHOD. SUBGRADE COMPACTION TESTS SHALL BE PERFORMED IMMEDIATELY PRIOR TO PLACING CRUSHED GRAVEL MATERIAL.
5. OBSERVATIONS AND FIELD TESTS SHALL BE CARRIED ON DURING GRADING BY THE PROJECT GEOTECHNICAL ENGINEER TO CONFIRM THAT THE REQUIRED DEGREE OF COMPACTION HAS BEEN OBTAINED. WHERE COMPACTION OR MOISTURE CONDITIONING IS LESS THAN THAT REQUIRED, ADDITIONAL COMPACTION EFFORT SHALL BE MADE WITH ADJUSTMENT OF THE MOISTURE CONTENT AS NECESSARY UNTIL THE SPECIFIED COMPACTION OR MOISTURE IS ACHIEVED.
6. WHEREVER, IN THE OPINION OF THE OWNER OR THE PROJECT GEOTECHNICAL ENGINEER, AN UNSTABLE CONDITION IS BEING CREATED, EITHER BY CUTTING OR FILLING, THE WORK SHALL NOT PROCEED IN THAT AREA UNTIL REVIEW HAS BEEN MADE AND THE GRADING PLAN REVISED, IF FOUND TO BE NECESSARY.
7. KEYWAY BACKCUTS SHOULD BE CONSTRUCTED NO STEEPER THAN A 1:1 (HORIZONTAL:VERTICAL) GRADIENT.
8. THE PROJECT GEOTECHNICAL ENGINEER SHOULD OBSERVE THE EXPOSED SURFACE DURING THE REMOVAL OPERATION TO EVALUATE EXCAVATION STABILITY AND CONFIRM THAT FIELD CONDITIONS ARE AS ANTICIPATED.
9. FOLLOWING CONFIRMATION OF FIELD CONDITIONS AND/OR FURTHER MODIFICATIONS, THE EXCAVATED MATERIALS MAY BE REPLACED ON THE SUBGRADE IN ACCORDANCE WITH SPECIFICATIONS AND THE SOILS REPORT.
10. ALL UTILITY TRENCH BACKFILLS SHALL BE PER C.O.B. STD. ST-22.
11. THE MATERIALS & CONSTRUCTION METHODS FOR THE IMPROVEMENTS INCLUDED HEREON SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS & STANDARD PLANS OF THE STATE OF CALIFORNIA, MOST CURRENT VERSION.
12. CRUSHED AGGREGATE SHALL CONFORM TO COARSE AGGREGATE GRADING SEC. 90-3.02 (1-1/2" X 3/4") OF THE CALTRANS SPEC'S OR AS APPROVED BY THE ENGINEER. CONTRACTOR SHALL CONFIRM TONNAGE OR VOLUME ESTIMATE PRIOR TO PLACING.
13. POSITIVE DRAINAGE OF SURFACE WATER AWAY FROM SITE IMPROVEMENTS IS VERY IMPORTANT. NO WATER SHALL BE ALLOWED TO POND AT ANY LOCATION ON THE COMPOUND, COMPOUND AND PARKING AREAS SHALL BE PROVIDED WITH ADEQUATE DRAINAGE GRADIENTS (MINIMUM 2% TO FIVE FEET FROM FOUNDATIONS AND ONE PERCENT ELSEWHERE) TO ENSURE THE UNOBSTRUCTED TRANSPORT OF WATER AWAY FROM IMPROVEMENTS AND OFF THE COMPOUND.
14. LOCAL BORROW MAY BE OBTAINED ON SITE. MAXIMUM DEPTH OF EXCAVATION SHALL BE 12". FINAL EXCAVATION SLOPES SHALL BE LEFT IN A SMOOTH AND EVEN CONDITION SUCH THAT PONDING WILL NOT OCCUR.
15. IF THE PROJECT IS SUBJECT TO THE PROVISIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), A "NOTICE OF INTENT" (NOI) TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY (WQ ORDER NO. 92-08-DWO) MUST BE FILED WITH STATE WATER RESOURCES CONTROL BOARD IN SACRAMENTO BEFORE THE BEGINNING OF ANY CONSTRUCTION ACTIVITY. COMPLIANCE WITH THE GENERAL PERMIT REQUIRES THAT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) BE PREPARED, CONTINUOUSLY CARRIED OUT, AND ALWAYS BE AVAILABLE FOR PUBLIC INSPECTION DURING NORMAL CONSTRUCTION HOURS.

P.E.
INCORPORATED
PASQUINI
ENGINEERING

903 H Street Suite 300
Bakersfield, Ca. 93304
Telephone: (805) 328-9600
Fax: (805) 328-9030

NO. DATE

A 03/07/11

B 04/11/11

DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

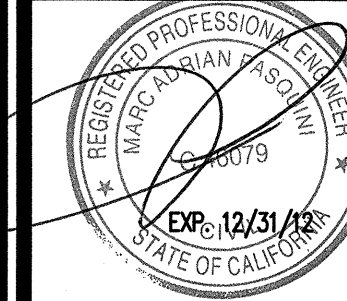
DWG. BY E.H.

CHK'D BY

DATE 02/19/12

JOB NO. 6510

FILE NO. 651022



SHEET

C-1

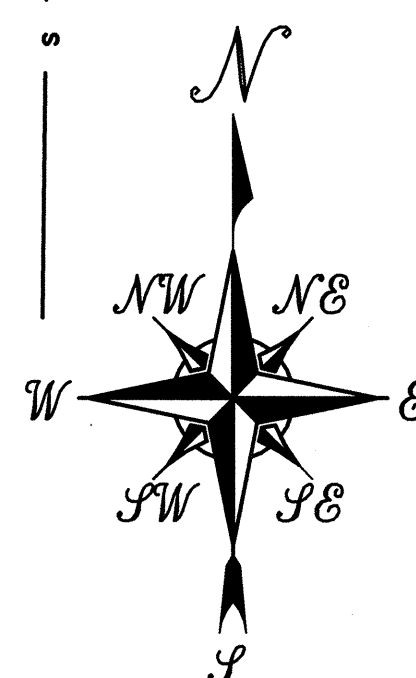
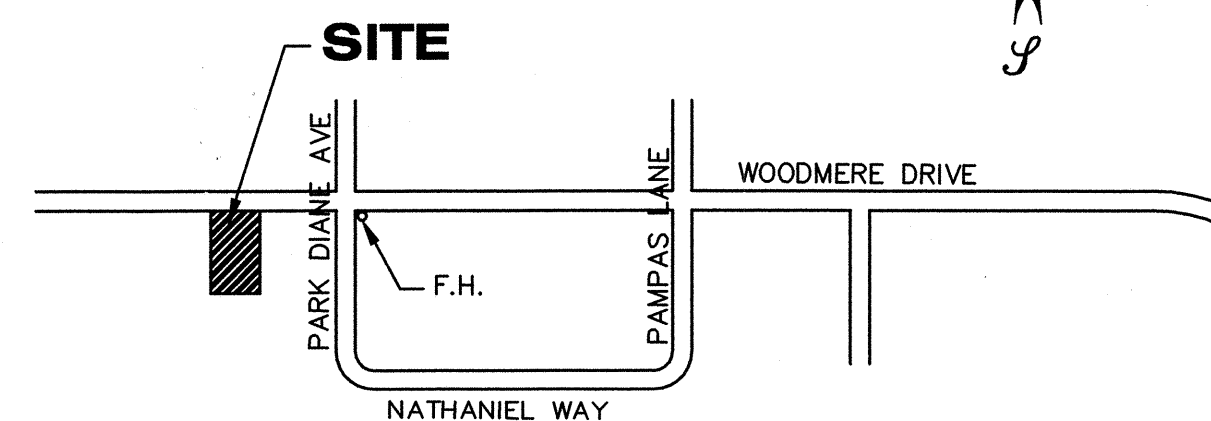
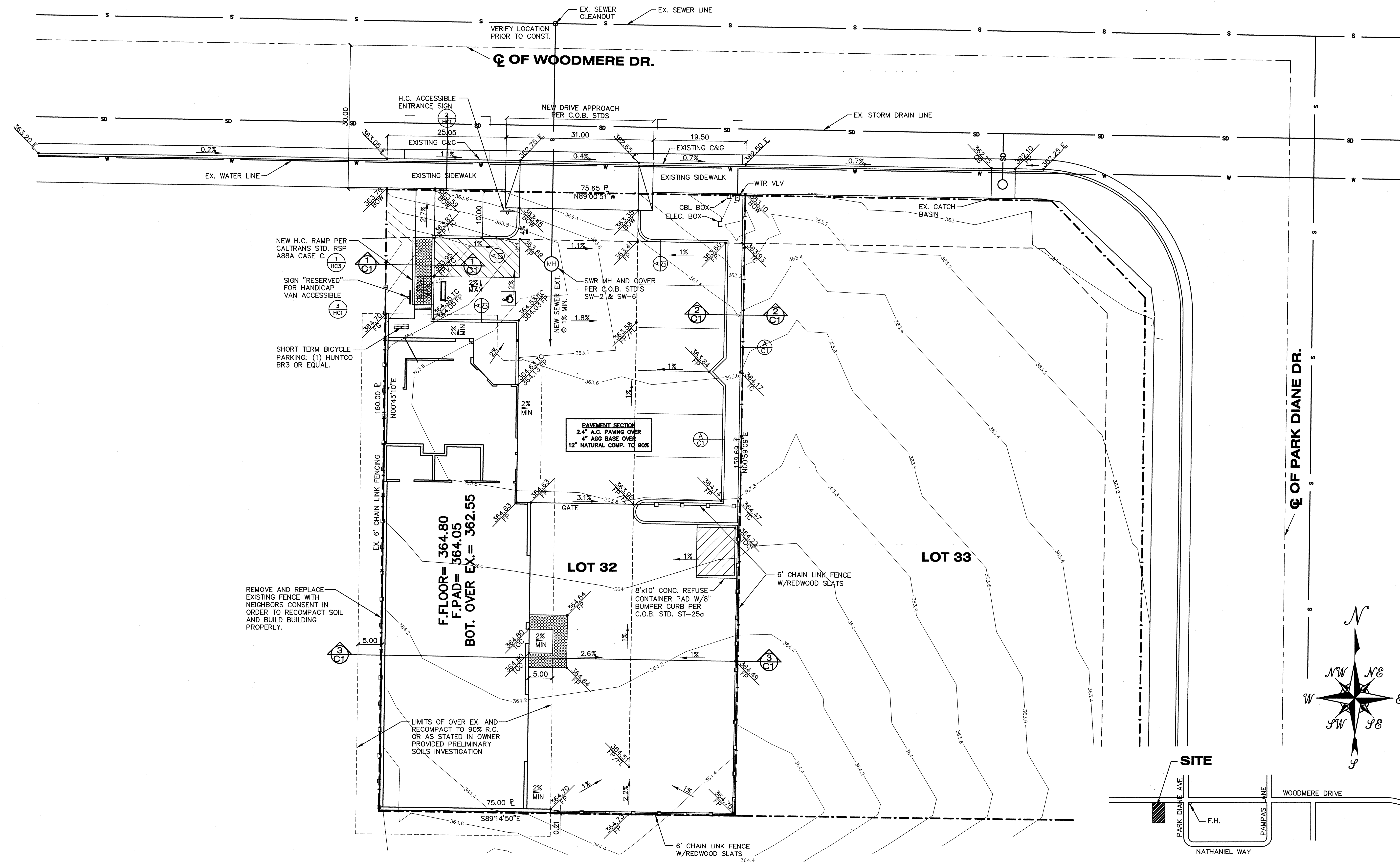
OF 3 SHEET

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

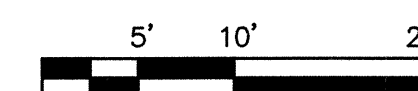
DIANE MIROWSKI
 OFFICE/ WAREHOUSE
 6107 WOODMERE DR.
 BAKERSFIELD, CA.

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|----------|
| DWG. BY | E.H. |
| CHK'D BY | |
| DATE | 02/19/12 |
| JOB NO. | 6510 |
| FILE NO. | 651013 |



SCALE: NTS



SCALE: 1" = 10'

GRADING PLAN

LEGAL DESCRIPTION
 APN: 499-582-24
 LOT 32, PARCEL
 MAP 10606-1

PROJECT ACREAGE
 0.22 ACRES

BENCH MARK

CHISELED "O" ON THE TOP OF CURB ON THE WEST END OF THE SOUTHWEST CORNER RETURN OF THE INTERSECTION OF ASHE RD. AND DISTRICT BLVD.
 USGS ELEVATION = 365.310 FEET

AN OPEN STREET PERMIT SHALL BE OBTAINED FROM THE CITY OF BAKERSFIELD PUBLIC WORKS DEPARTMENT FOR ANY WORK PERFORMED WITHIN EXISTING ACCEPTED STREET RIGHT OF WAY. UNLESS SECURED BY A SUBDIVISION AGREEMENT, SECURITY BASED ON AN APPROVED ENGINEER'S ESTIMATE FOR THE WORK PERFORMED WITHIN RIGHT OF WAY AND INSURANCE AS REQUIRED SHALL BE PROVIDED PRIOR TO ISSUANCE OF A PERMIT.

THE LANDSCAPED AREAS ARE TO BE DESIGNED AND GRADED TO MINIMIZE EXCESS LANDSCAPE DRAINAGE ACROSS THE SIDEWALK FOR THOSE AREAS OVER 2%.

- ☒ CONNECT TO SEWER
- ☐ PROVIDE SEPTIC SYSTEM PER GOVERNING AGENCY STANDARDS VERIFY SOIL TYPE

PROVIDE BLDG PAD ADEQUATELY PREPARED FOR ITS INTENDED USE

NOTE:
 ALL SETBACKS SHALL MEET CC&R, PLANNING & CODE REQUIREMENTS OWNER/CONTRACTOR TO VERIFY COMPLIANCE PRIOR TO CONSTRUCTION

STORMWATER AND EROSION CONTROL NOTES:

1. IN CASE OF AN EMERGENCY, CONTACT QUALIFIED SWPPP PRACTITIONER.
2. A STAND-BY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING PERIODS OF IMMINENT RAINFALL (EXCEEDING 40 PERCENT PROBABILITY). NECESSARY MATERIAL SHALL BE AVAILABLE ONSITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID DEPLOYMENT OF BMP'S WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHOWN ON THIS PLAN MAY BE REMOVED WHEN APPROVED BY THE PROJECT ENGINEER WHEN THEY ARE DEEMED TO BE NO LONGER NECESSARY.
4. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAIN EVENT.
5. EXCEPT AS OTHERWISE APPROVED BY THE RESIDENT ENGINEER, ALL REMOVEABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORK DAY OR ON WEEKENDS WHEN THE 5-DAY RAIN PROBABILITY EXCEEDS 40 PERCENT.
6. THE PLACEMENT OF ADDITIONAL DEVICES TO REDUCE EROSION DAMAGE WITHIN THE SITE IS LEFT TO THE DISCRETION OF THE CONTRACTOR AND RESIDENT ENGINEER.
7. EROSION CONTROL DEVICES ARE TO BE MODIFIED AS NEEDED AS THE PROJECT PROGRESSES AND PLANS OF THOSE CHANGES MUST BE INCORPORATED INTO THE SWPPP.
8. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ONSITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, WIND OR DRAINAGE CONVEYANCES.
9. STOCKPILES OF SOIL AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
10. HAZARDOUS MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR SPECIFIC LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO DRAINAGE CONVEYANCES.
11. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED AIR TIGHT RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
12. RETAIN SEDIMENT ONSITE TO THE EXTENT PRACTICABLE WITH CONSIDERATION FOR LOCAL TOPOGRAPHY, SOIL TYPE, AND RAINFALL.
13. SELECT, INSTALL, AND MAINTAIN CONTROL MEASURES ACCORDING TO THE MANUFACTURER OR DESIGNER'S SPECIFICATIONS.
14. DEVELOP CONTROLS TO LIMIT, TO THE EXTENT PRACTICABLE, OFF-SITE TRANSPORT OF LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION MATERIALS.
15. NO STOCKPILE NOR PORTA-POTY SHALL BE LOCATED WITHIN 50' OF ANY DRAINAGE CONVEYANCE OR DRAIN INLET.

EROSION & SEDIMENT CONTROL CONSTRUCTION NOTES

- ALL BMP'S SHALL BE IN ACCORDANCE WITH MODEL BMP'S FROM THE CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION AT WWW.CABMPHANDBOOKS.COM
- (EC1) CONSTRUCT GRAVEL/SAND BAG EROSION CONTROL ALONG WESTERLY, EASTERLY, NORTHERLY AND SOUTHERLY EXTENTS OF CONSTRUCTION EXCEPT DRIVEWAY APPROACHES. THE GRAVEL/SAND BAGS SHOULD BE 24" WIDE AND 10" HIGH. MINIMUM PER DETAIL HEREON AND IN ACCORDANCE WITH BMP FACTS SHEET #SE-8.
 - (EC2) INSTALL GRAVEL/SAND BAG INLET PROTECTION AROUND INLETS IN ACCORDANCE WITH BMP SE-10, CALIFORNIA STORMWATER BMP HANDBOOK, CONSTRUCTION BOOK, JANUARY, 2003, WWW.CABMPHANDBOOKS.COM.
 - (EC3) CONSTRUCT MATERIALS STORAGE AREA IN ACCORDANCE WITH BMP FACTS SHEET #WM-1.
 - (EC4) STABILIZED CONSTRUCTION ENTRY/EXIT POINT IN ACCORDANCE WITH BMP #TR-1 FROM CALIFORNIA STORMWATER CONSTRUCTION HANDBOOK, MINIMUM DIMENSION 25' LONG X 15' WIDE PART OF WHICH MAY BE CORRUGATED STEEL BARS.
 - (EC5) CONSTRUCT CONCRETE WASH OUT AREA.

EROSION AND SEDIMENT CONTROL PLAN

LEGAL DESCRIPTION
APN: 499-582-24
LOT 32, PARCEL
MAP 10606-1

PROJECT ACREAGE
0.22 ACRES

BENCH MARK

CHISELED "O" ON THE TOP OF CURB ON THE WEST END OF THE SOUTHWEST CORNER RETURN OF THE INTERSECTION OF ASHE RD. AND DISTRICT BLVD.
USGS ELEVATION = 365.310 FEET

AN OPEN STREET PERMIT SHALL BE OBTAINED FROM THE CITY OF BAKERSFIELD PUBLIC WORKS DEPARTMENT FOR ANY WORK PERFORMED WITHIN EXISTING ACCEPTED STREET RIGHT OF WAY, UNLESS SECURED BY A SUBDIVISION AGREEMENT, SECURITY BASED ON AN APPROVED ENGINEER'S ESTIMATE FOR THE WORK PERFORMED WITHIN RIGHT OF WAY AND INSURANCE AS REQUIRED SHALL BE PROVIDED PRIOR TO ISSUANCE OF A PERMIT.

THE LANDSCAPED AREAS ARE TO BE DESIGNED AND GRADED TO MINIMIZE EXCESS LANDSCAPE DRAINAGE ACROSS THE SIDEWALK FOR THOSE AREAS OVER 2%.

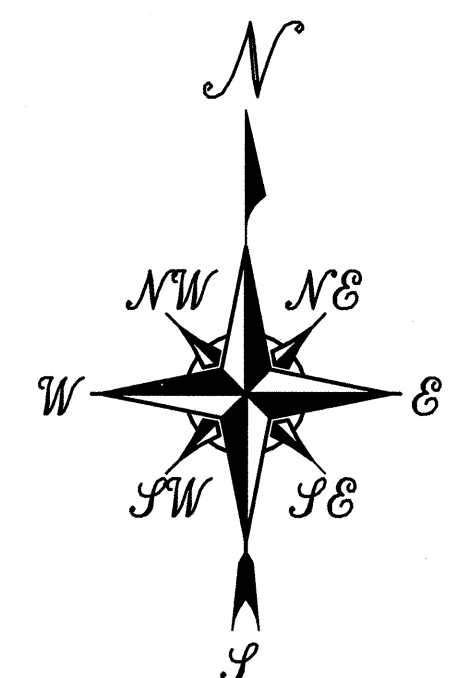
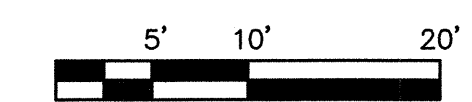
- ☒ CONNECT TO SEWER
- ☐ PROVIDE SEPTIC SYSTEM PER GOVERNING AGENCY STANDS VERIFY SOIL TYPE

PROVIDE BLDG PAD ADEQUATELY PREPARED FOR ITS INTENDED USE

NOTE:
ALL SETBACKS SHALL MEET CC&R, PLANNING & CODE REQUIREMENTS OWNER/CONTRACTOR TO VERIFY COMPLIANCE PRIOR TO CONSTRUCTION

SCALE: 1" = 10'

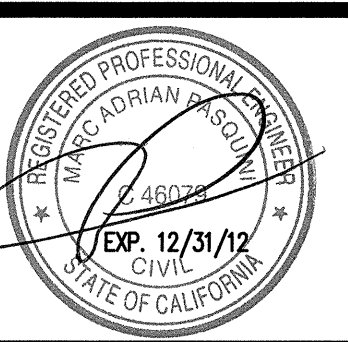
VICINITY MAP



DIANE MIROWNSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

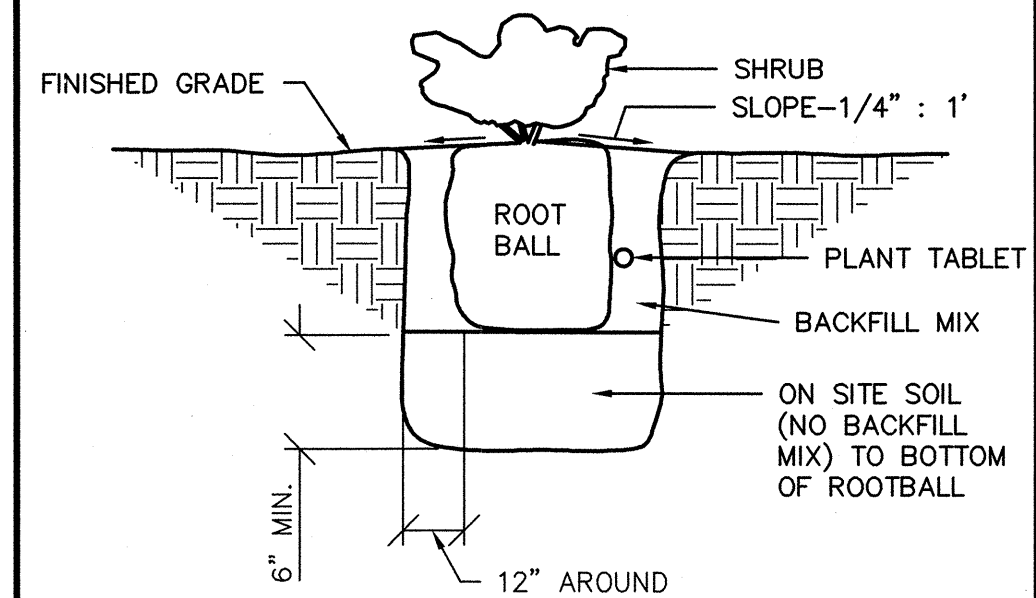
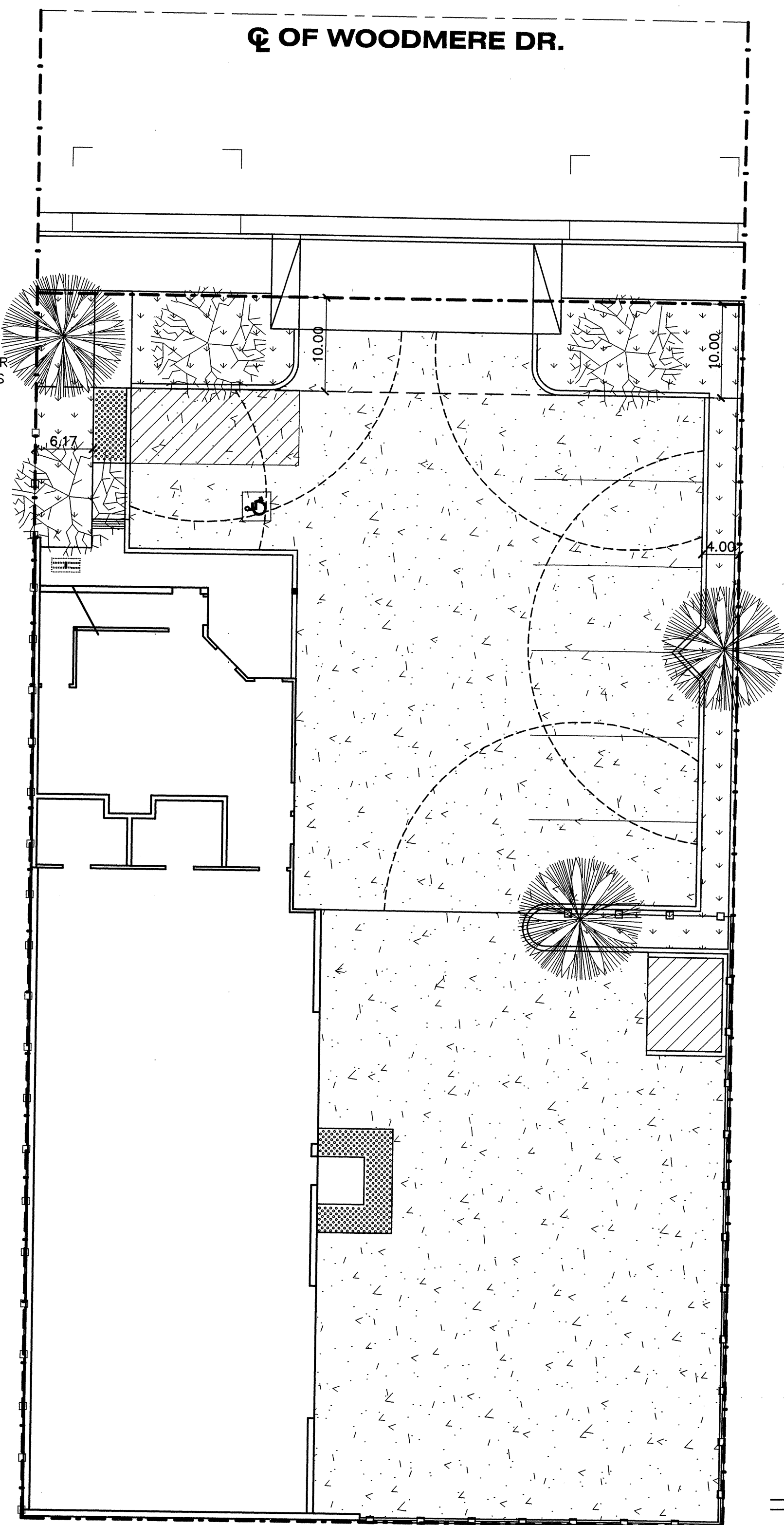
THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|----------|
| DWG. BY | E.H. |
| CHK'D BY | |
| DATE | 02/13/12 |
| JOB NO. | 8510 |
| FILE NO. | 851013 |



SHEET
C-3
OF 3 SHEET

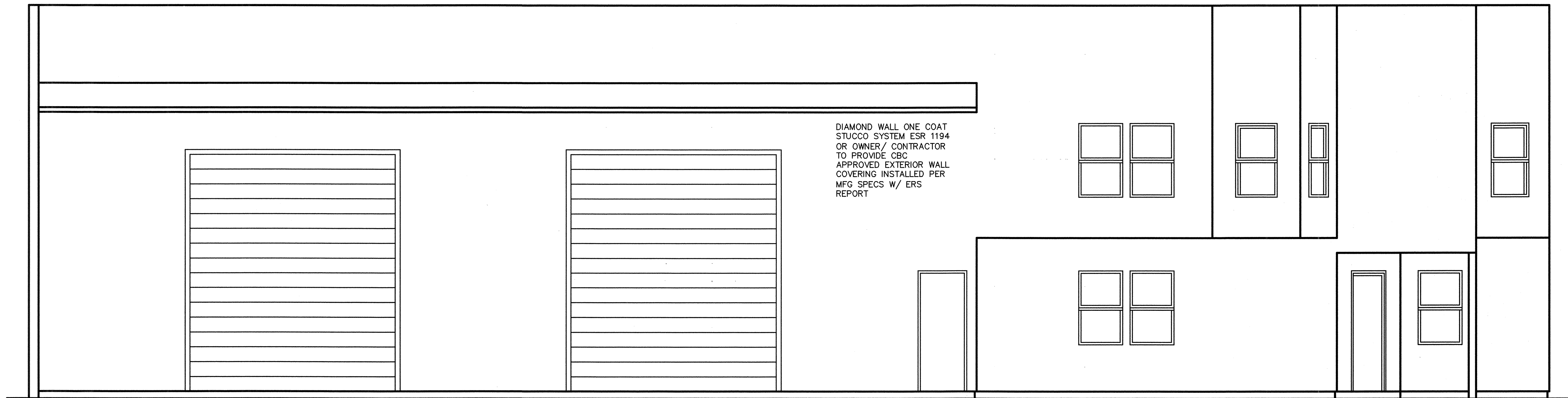
PASQUINI
ENGINEERING
INCORPORATED
903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (805) 328-9800
Fax: (805) 328-9030



SHEET

A-1

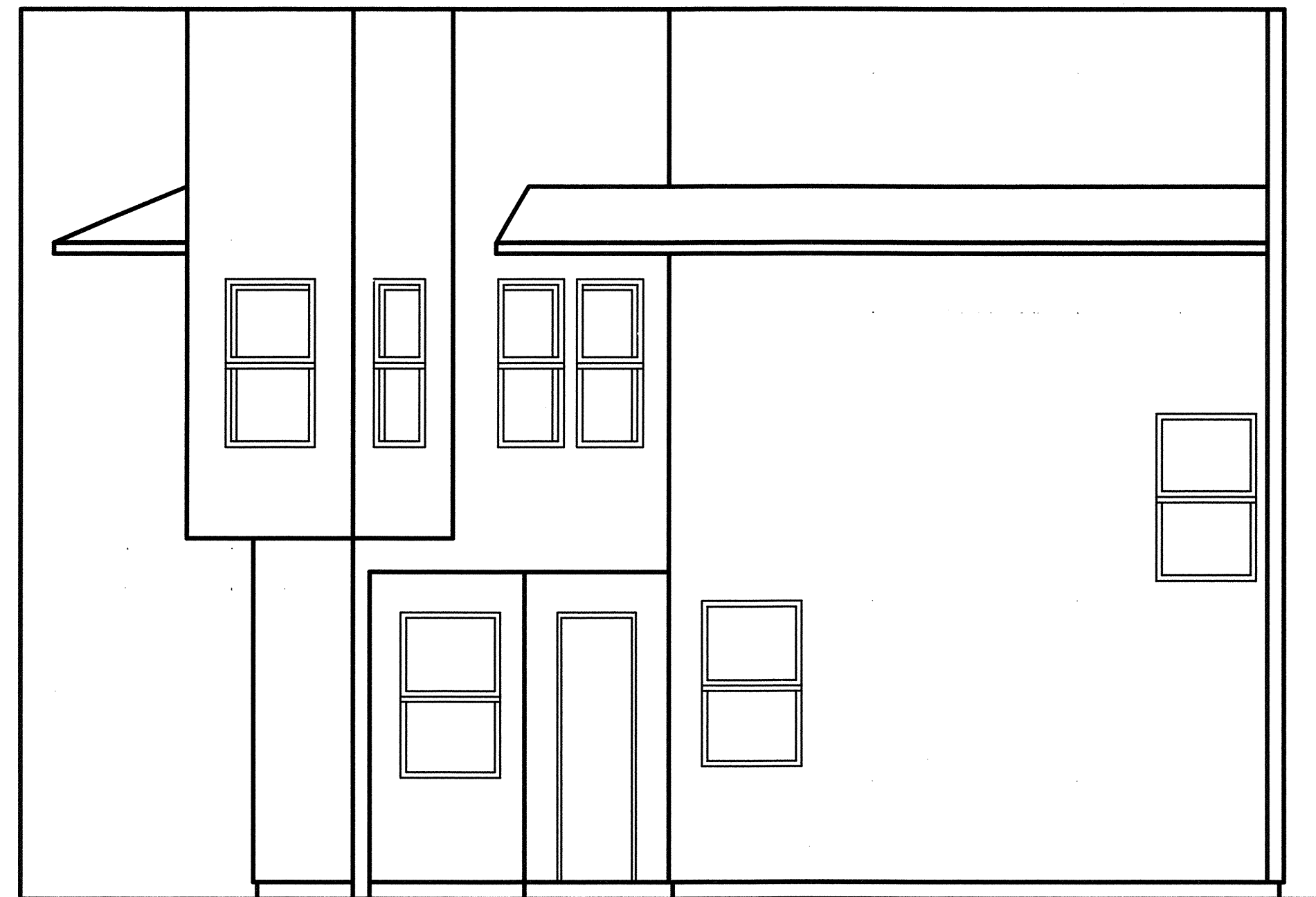
OF **SHEET**



DIAMOND WALL ONE COAT
STUCCO SYSTEM ESR 1194
OR OWNER/ CONTRACTOR
TO PROVIDE CBC
APPROVED EXTERIOR WALL
COVERING INSTALLED PER
MFG SPECS W/ ERS
REPORT

FRONT ELEVATION

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



RIGHT ELEVATION

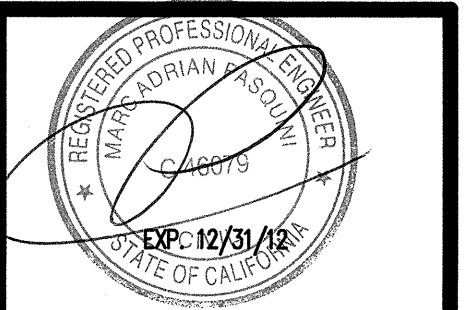
SCALE: 1/4" = 1'-0"

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |
| | |

DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |

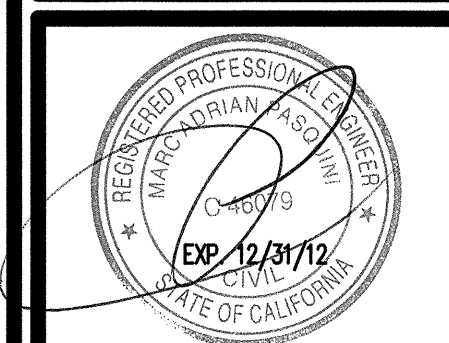


| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

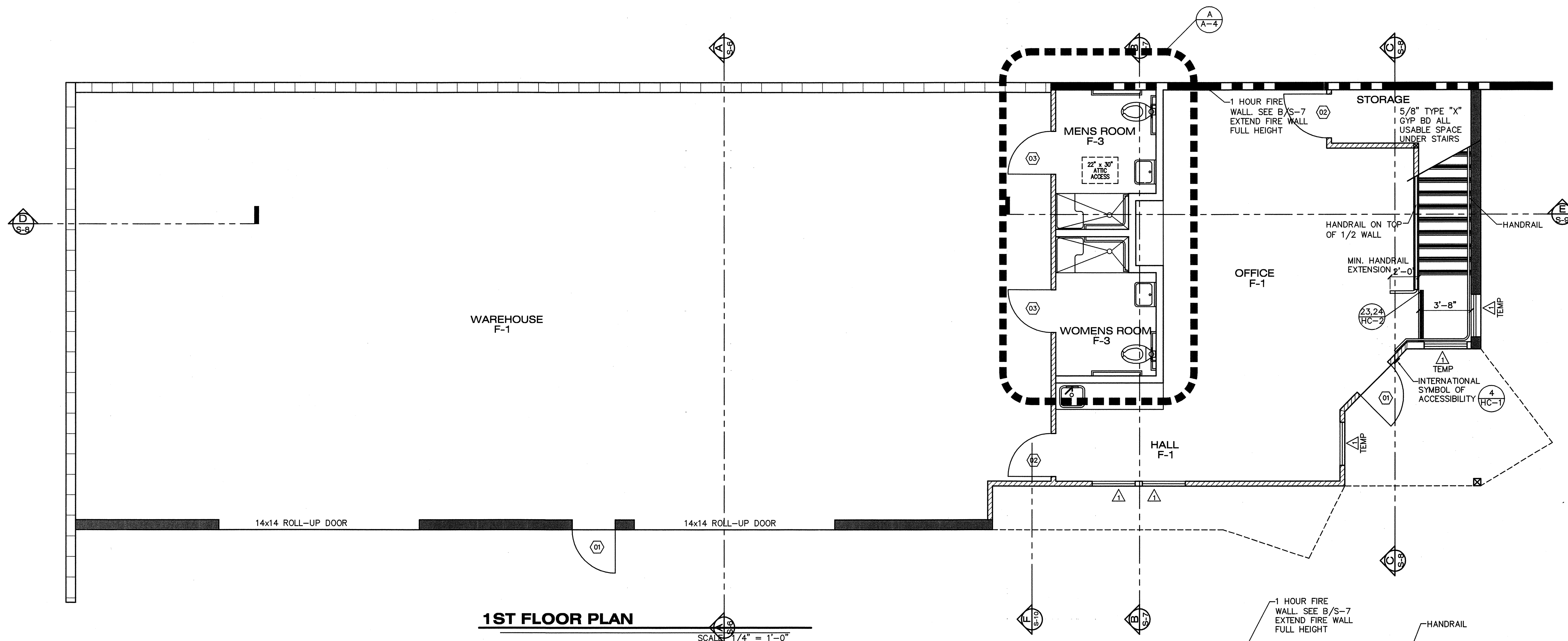
DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A PROFESSIONAL SEAL WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



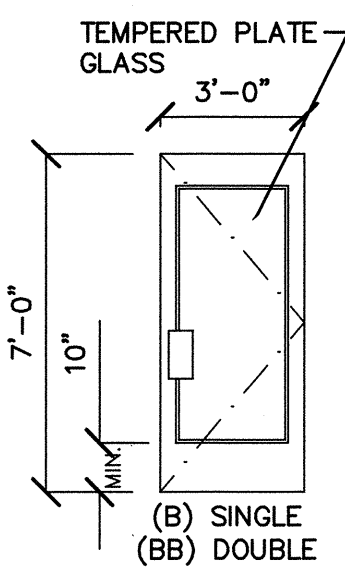
| | |
|-------|------------|
| SHEET | A-3 |
| OF | SHEET |



| | |
|--|------------------------------------|
| | 8" NORMAL WT MASONRY WALLS |
| | 2x8 @ 16" O.C. |
| | 2x6 @ 16" O.C. 1 HOUR SEE B/S-7 |
| | 2x6 @ 16" O.C. |
| | 2x4 @ 16" O.C. |

FINISH SCHEDULE

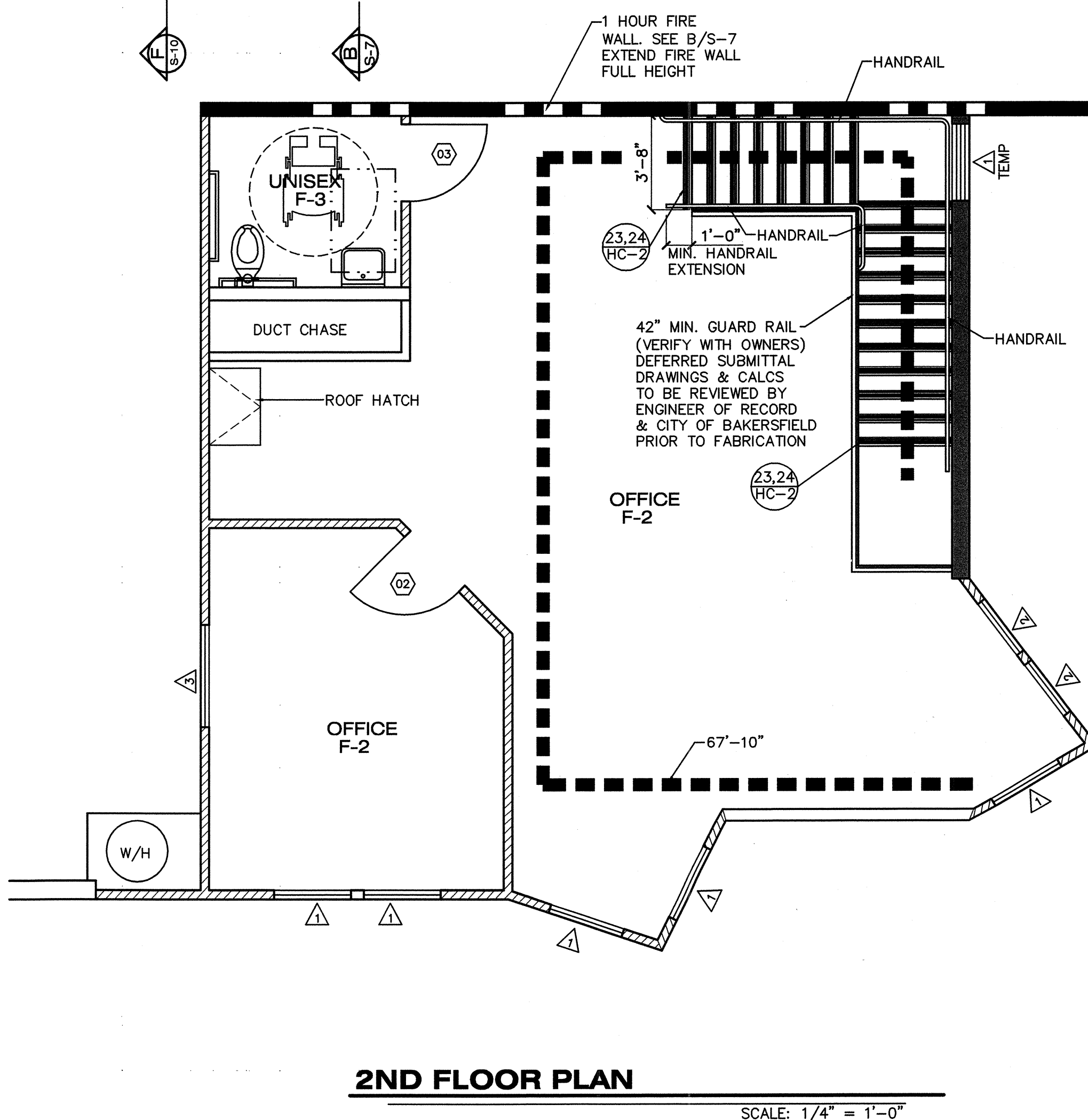
| F-1 | F-3 |
|------------------------------|-----------------------------------|
| CONCRETE W/4" RTSB | SHT VINYL W/ 6" COVED BASE |
| 1/2" SHT RK W/ 2 COATS LATEX | 1/2" W/R SHT RK W/ 3 COATS ENAMEL |
| | 1/2" W/R SHT RK W/ 3 COATS ENAMEL |
| | ON 2x6 C.J. @ 16" O.C. |
| | FRP TO 48" ALL WALLS |
| F-2 | |
| WOOD FLOOR W/4" RTSB | |
| 1/2" SHT RK W/ 2 COATS LATEX | |



DOOR SCHEDULE

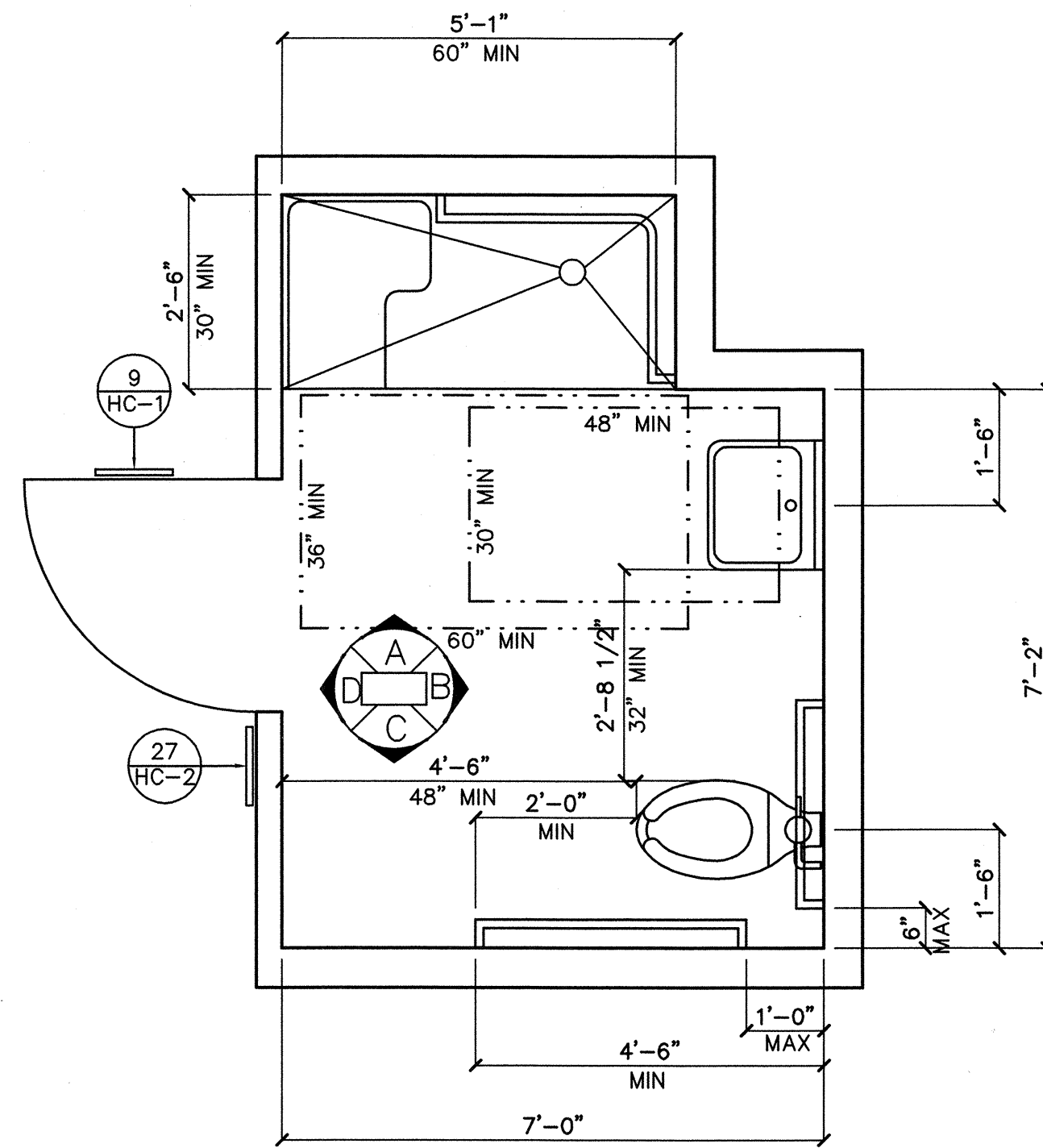
| DOOR NUMBER | DOOR TYPE | SIZE | | DOOR MATERIAL | DOOR FINISH | HARDWARE |
|-------------|-----------|-------|--------|---------------|-------------|---|
| | | WIDTH | HEIGHT | | | |
| 1 | B | 3'-0" | 7'-0" | AL | SEE NOTES | 1 1/2 PR BUTTS / NRP 1 DOOR STOP 1 THRESHOLD 1 WEATHER STRIP 1 PANIC HARDWARE 1 CLOSER |
| 2 | B | 3'-0" | 7'-0" | AL | SEE NOTES | 1 PR BUTTS 1 LATCH SET 1 DOOR STOP |
| 3 | B | 3'-0" | 7'-0" | AL | SEE NOTES | 1 PAIR SPRING HINGES 1 PRIVACY SET 1 DOOR STOP 1 HC SIGN (MEN OR WOMEN) |

SEE 21/HC2



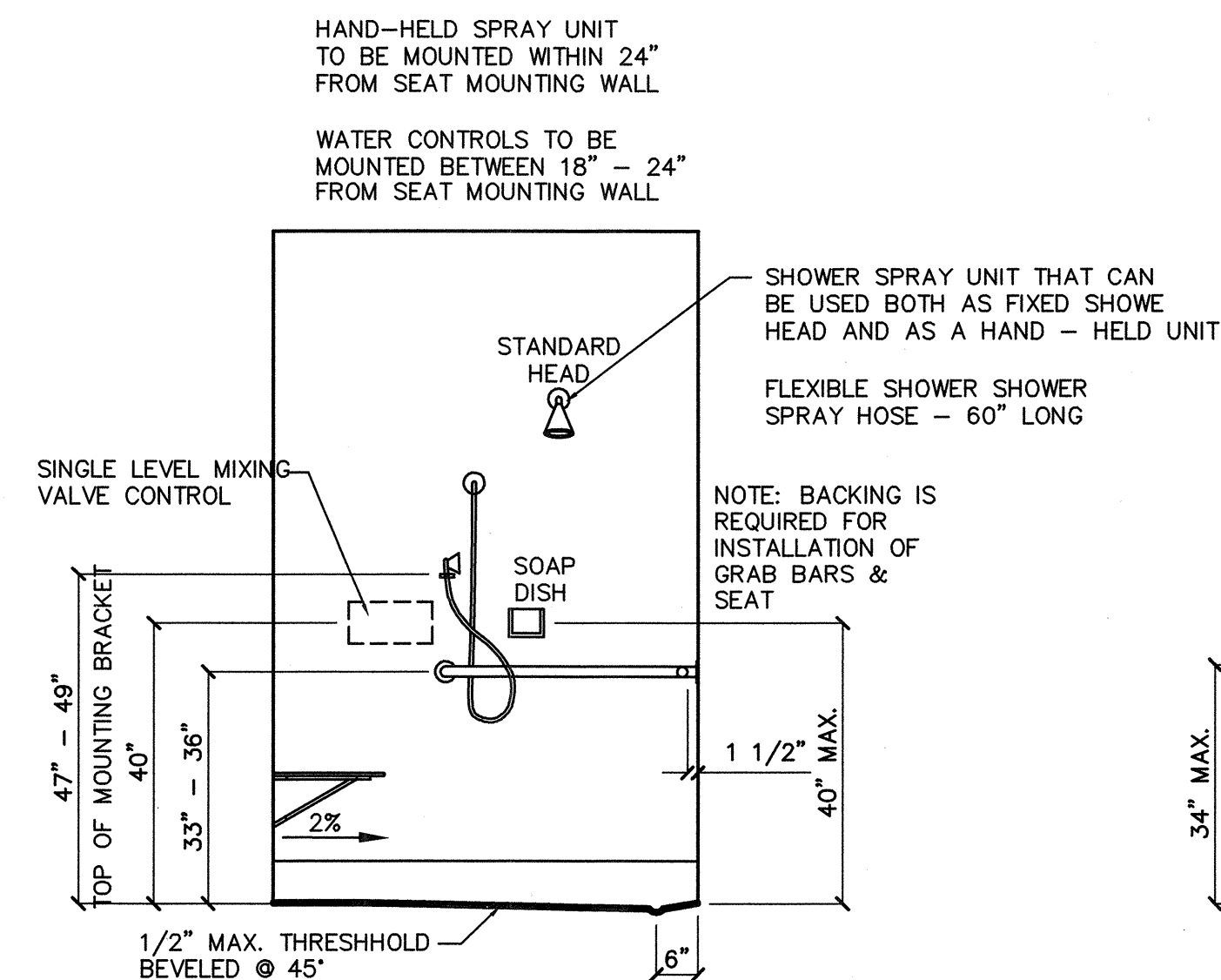
WINDOW SCHEDULE

| | |
|--|--------------------------------------|
| | 3050 SH |
| | 2650 SH |
| | 4040 SH |
| | U VALUE 0.77 OR LESS TYP ALL WINDOWS |

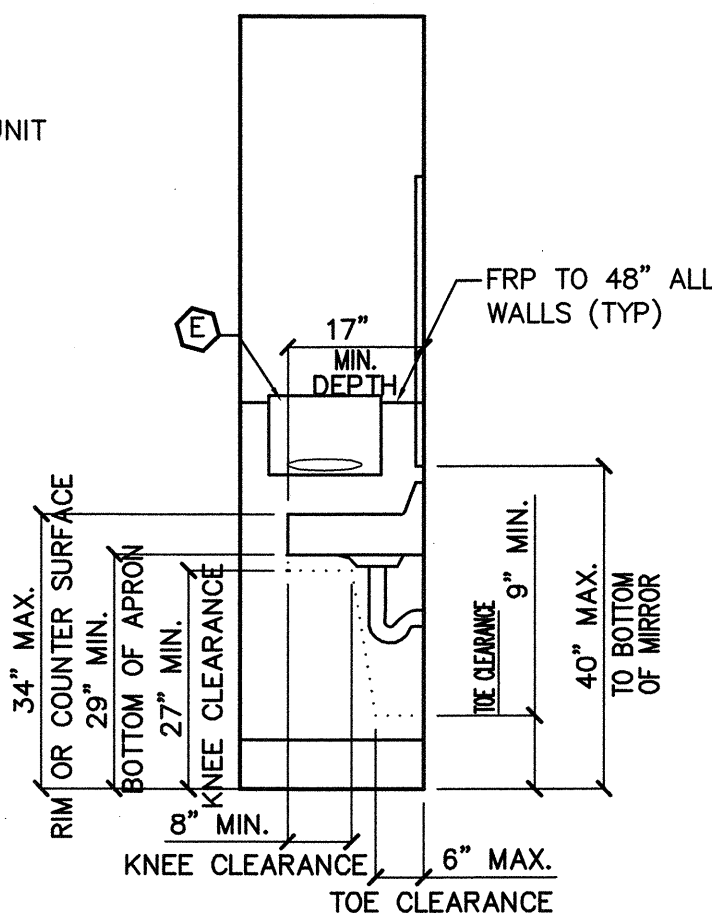


RESTROOM "A"

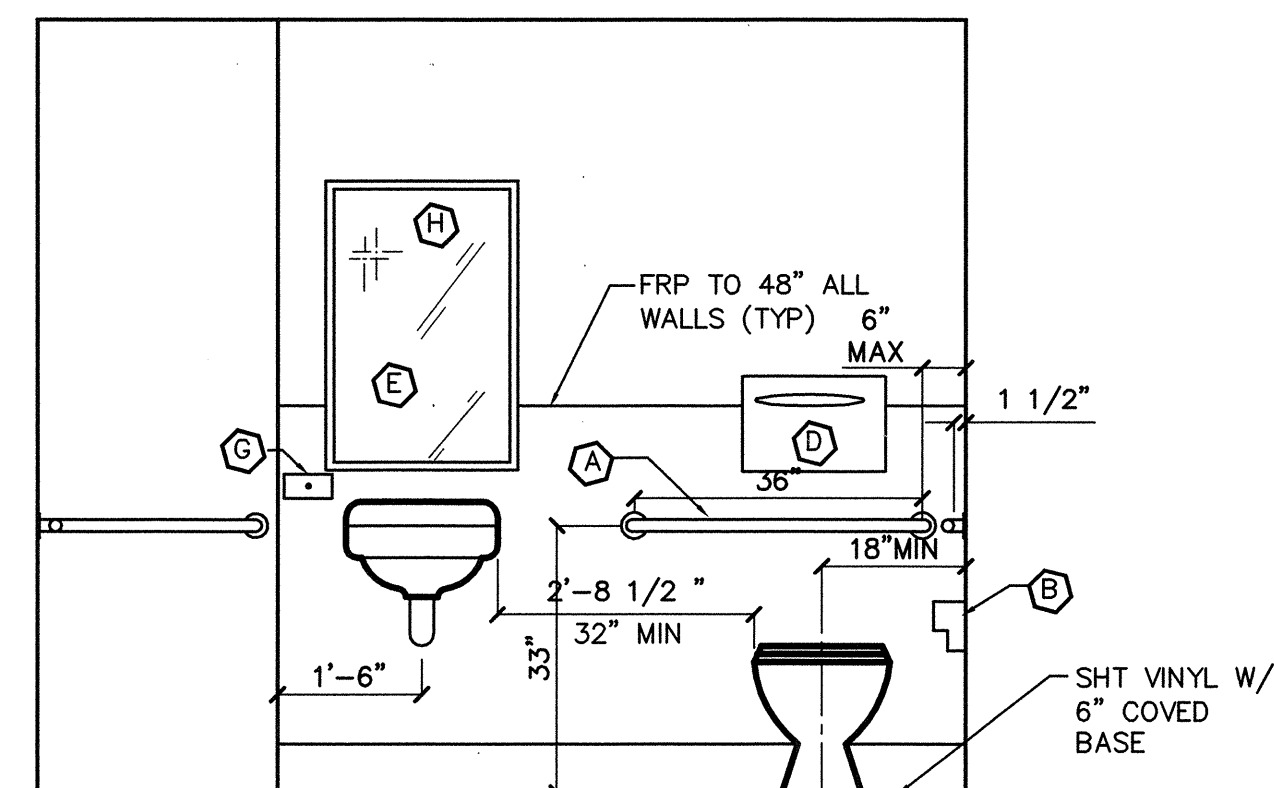
SCALE: 1/2" = 1'-0"



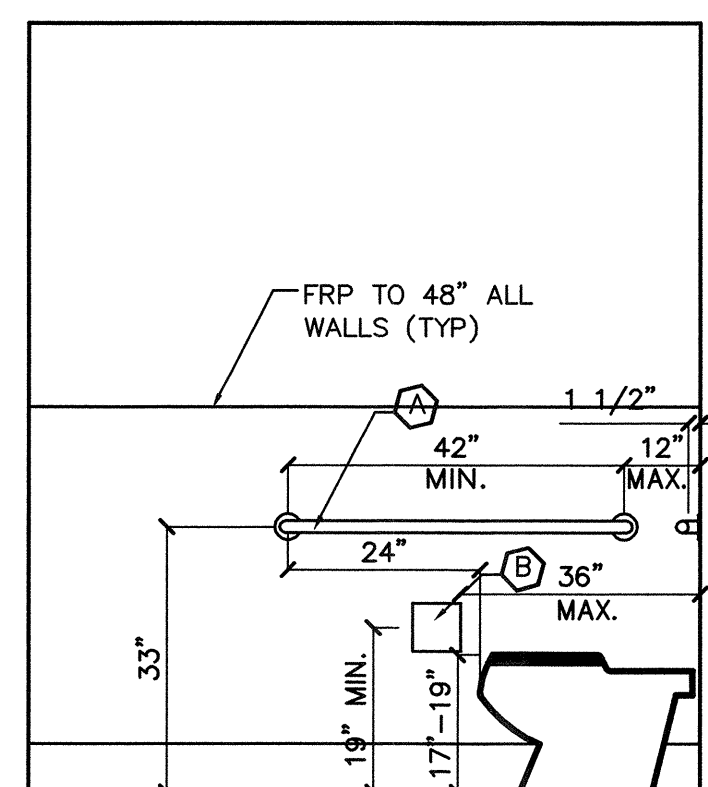
A



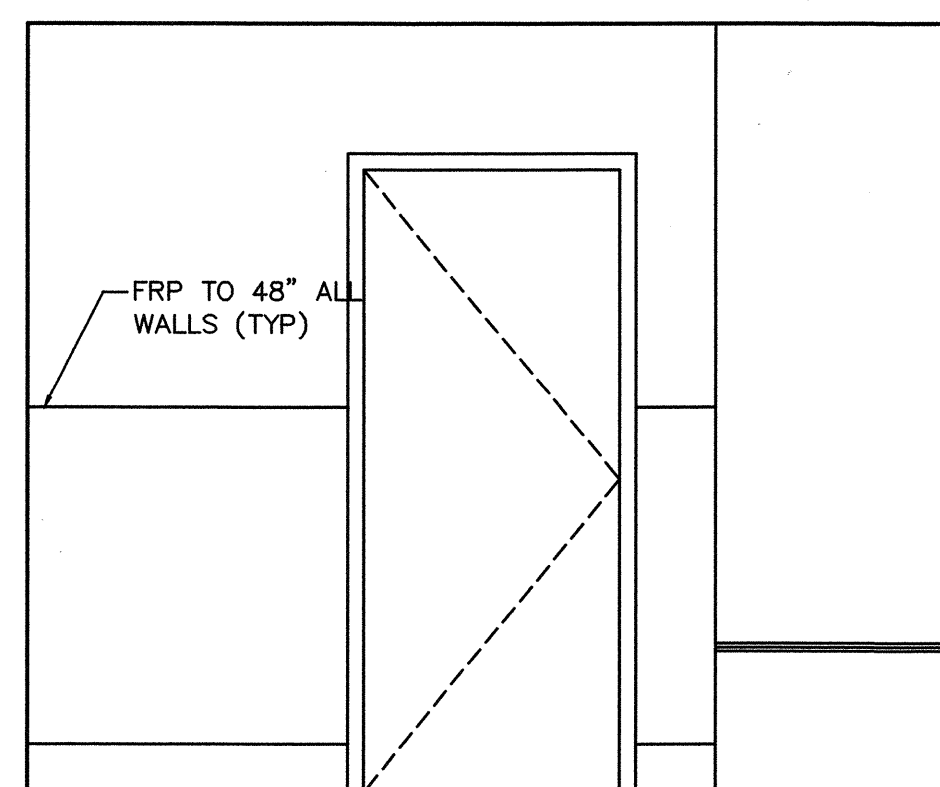
A



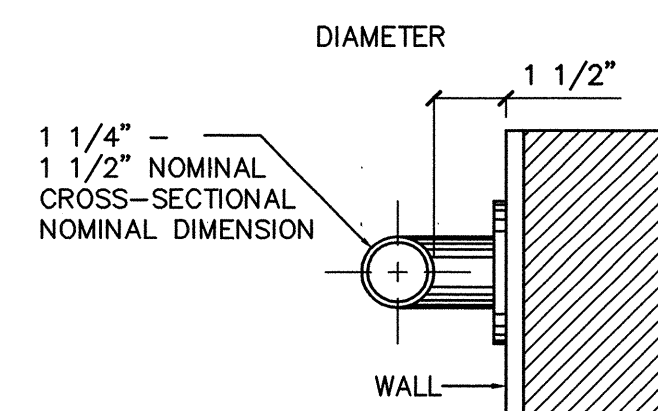
B



C



D



SECTION THROUGH
TYPICAL GRAB BAR

RESTROOM ACCESSORY SCHEDULE

- (A) GRAB BAR --- BOBRICK # B4937 OR EQUAL
- (B) TOILET PAPER HOLDER BY OWNER - CONTRACTOR INSTALLED
- (C) TOILET PARTITION (GLOBAL PLASTIC LAMINATE PARTITION RED #2145)
- (D) TOILET SEAT COVER DISPENSER --- BOBRICK B301 OR EQUAL
- (E) PAPER TOWEL DISPENSER BY OWNER - CONTRACTOR INSTALLED
- (F) FEMININE NAPKIN VENDOR AND DISPOSAL --- IF REQUIRED
- (G) SOAP DISPENSER BY OWNER
- (H) 24" x 36" POLISHED MIRROR W/ NAT. ALUMINUM TRIM 60" x 36" ALT. MIRROR DIMENSION

PIPING UNDER LAVATORIES SHALL BE INSULATED OR COVERED AND THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES

WRAP HOT WATER & DRAINS LINES PER CODE
USE SHEET VINYL FLOORING

SEE
7 / HC-1

**SEE HC-1 FOR ADDITIONAL
NOTES AND DETAILS**

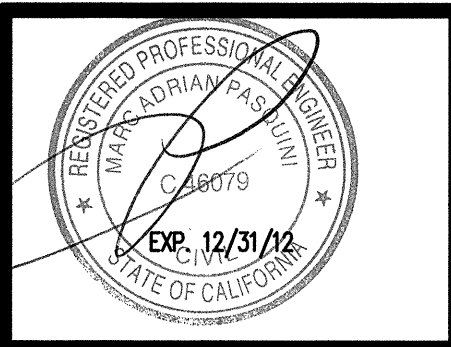
**PASQUINI
ENGINEERING**
INCORPORATED
903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (805) 328-9600
Fax: (805) 328-9030

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

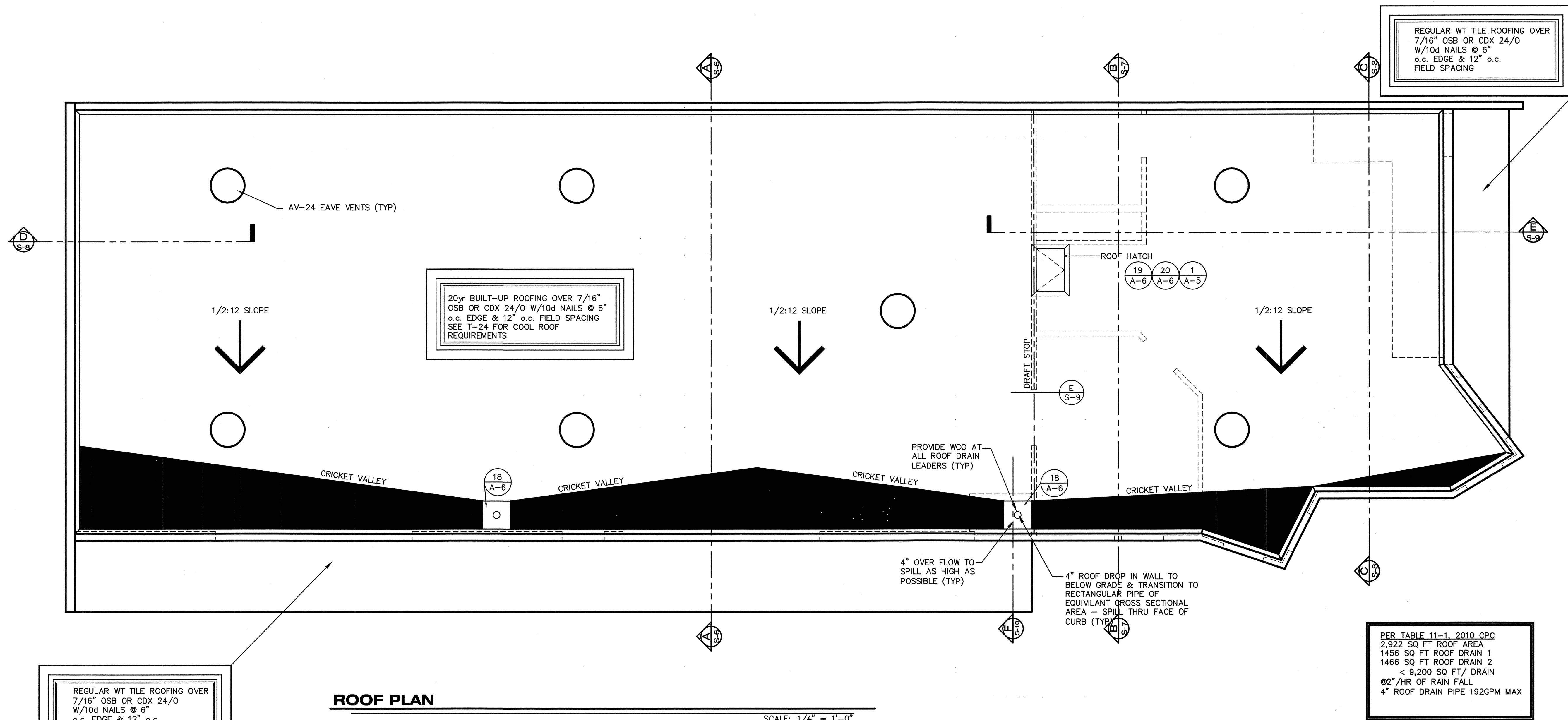
DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



| | |
|-------|------------|
| SHEET | A-4 |
| OF | SHEET |

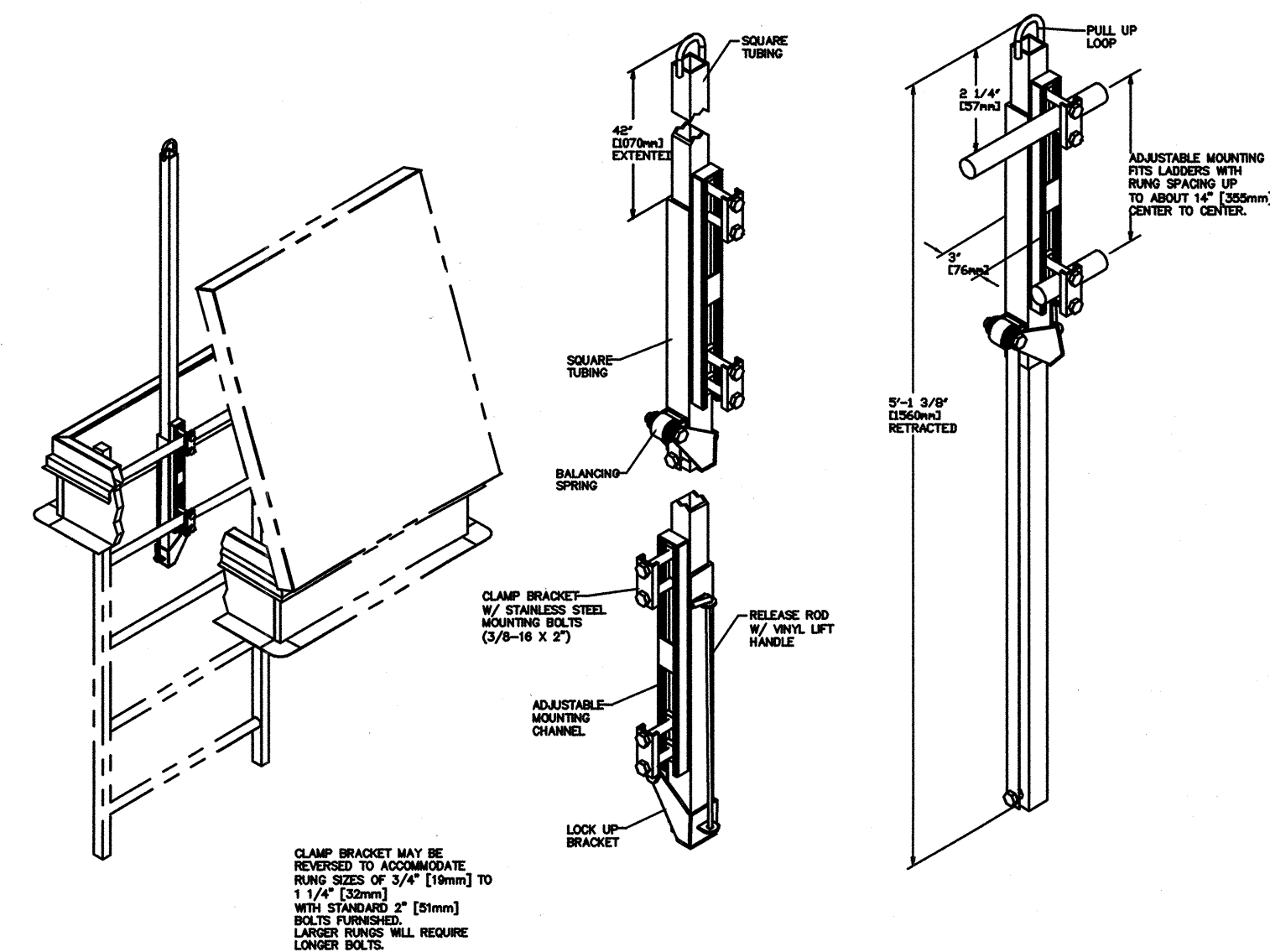


ATTIC VENTILATION:

TOTAL VENT AREA PROVIDED _____
VENT AREA NEEDED = $2909 / 150 = 19.39$ SQ. FT.
ATTIC HVAC INSTALLATION = 0.7 SQ. FT. (100 SQ. IN.)
TOTAL REQUIRED VENT AREA = _____

CONTRACTOR TO COMPLETE ATTIC VENT CALCULATIONS
TO SHOW THE BUILDING OFFICIAL HOW MIN. ATTIC
VENTILATION REQUIREMENTS ARE MET.

PROVIDE "AURA" (OR EQ.) ROOF VENTS:
7 AV-24 EAVE VENTS (3.14 SQ. FT. EA) = 21.98



1) BILCO LADDER UP SAFETY POST

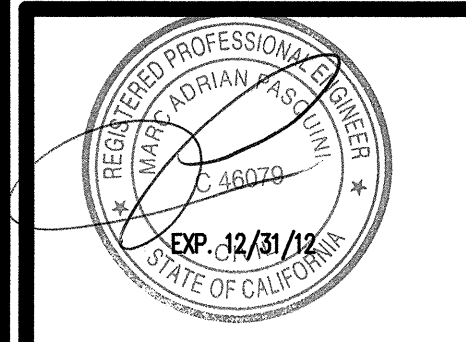
**PASQUINI
ENGINEERING**
INCORPORATED
903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (861) 328-9600
Fax: (861) 328-9090

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

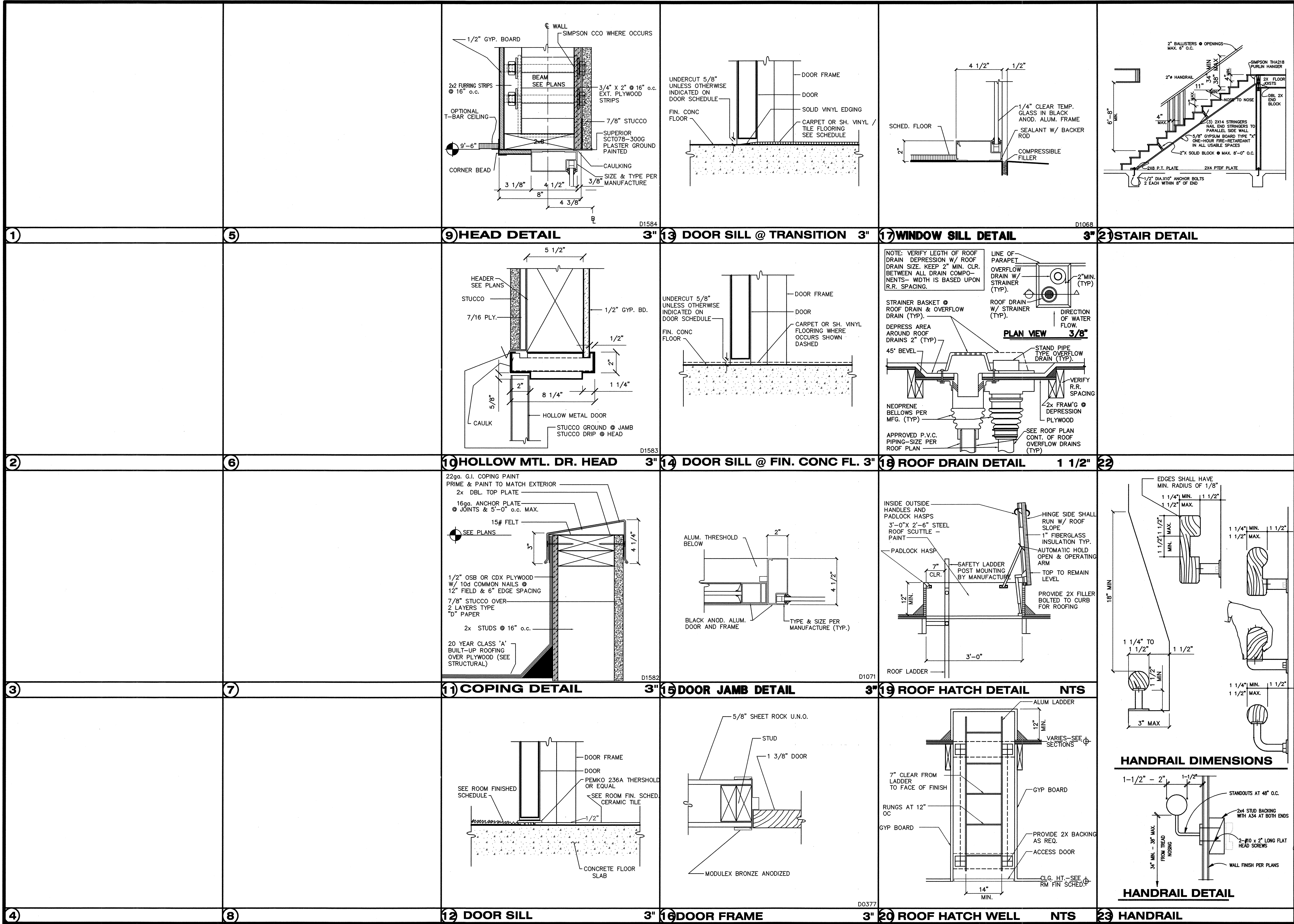
DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



SHEET
A-5
OF SHEET



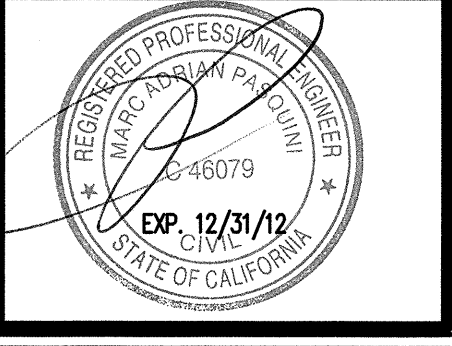
PASQUINI
ENGINEERING
INCORPORATED

903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (805) 328-9800
Fax: (805) 328-9030

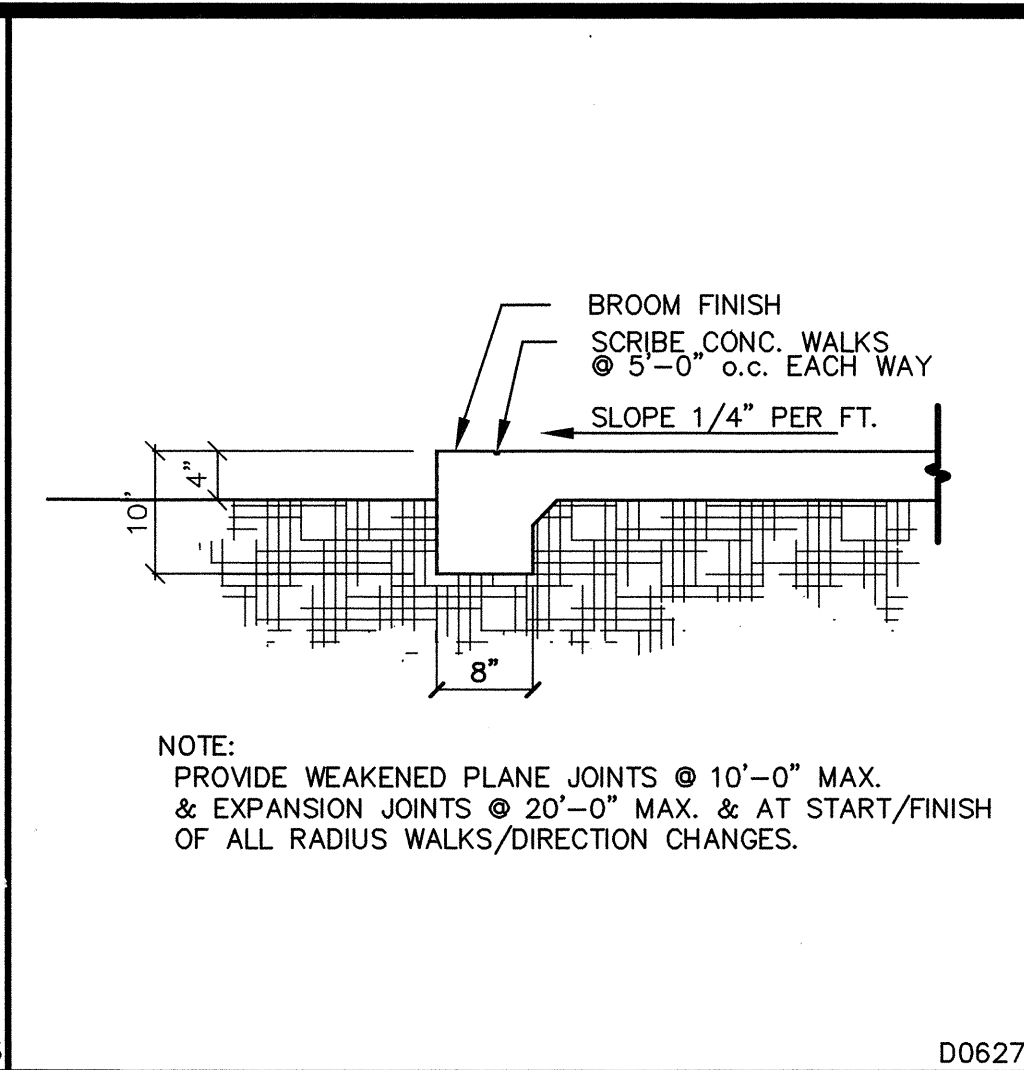
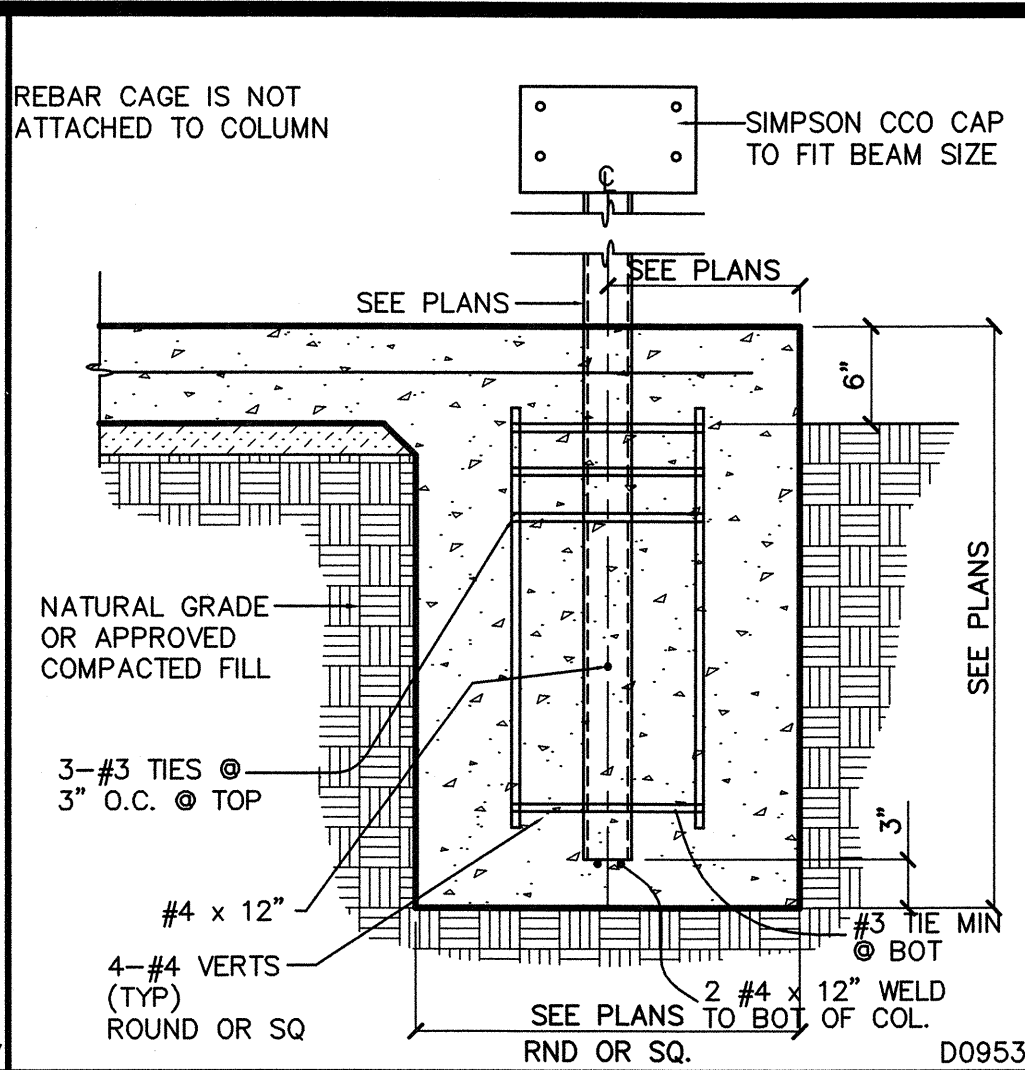
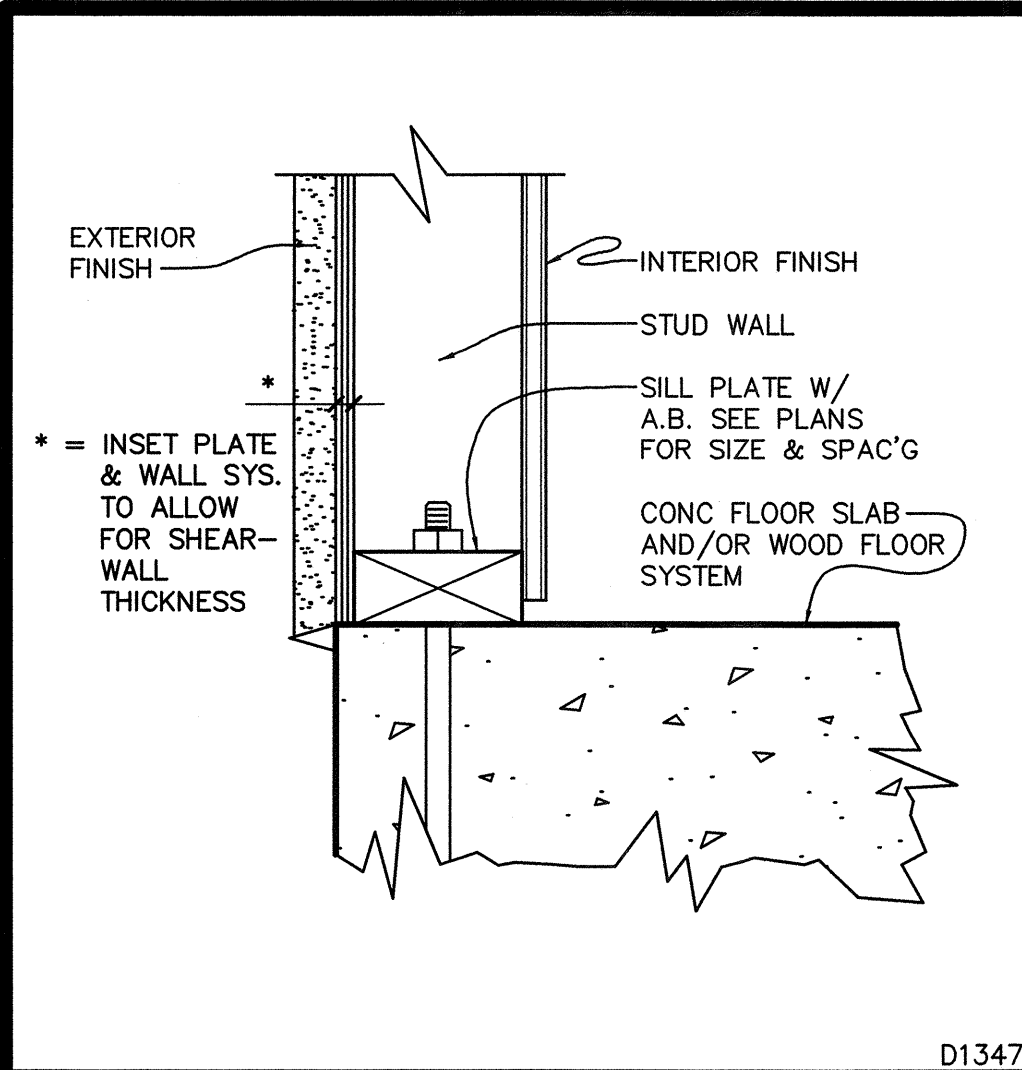
| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 5-12-10 |
| JOB NO. | 8345 |
| FILE NO. | 834531 |



SHEET
OF
A-6
SHEET



SCOPE OF STRUCTURAL NOTES:

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE RULES AND REGULATIONS OF THE CALIFORNIA BUILDING CODE, 2010 EDITION, AND ALL LOCAL CODES AND ORDINANCES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT DETAILS REQUIRED BY THE VARIOUS CODES, BUT NOT SPECIFICALLY NOTED IN THESE PLANS ARE COMPLETED ACCORDING TO THE CODES.
3. ALL WORK SHALL BE FIRST CLASS WORKMANSHIP. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INTENT OF THESE DRAWINGS.
4. ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE OF DRAWINGS.
5. NOTES AND WORKING DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND THE JOB SITE, AND ON THE PLANS PRIOR TO CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES.
7. ANY CHANGES TO THESE PLANS SHALL BE VERIFIED IN WRITING BY THE ENGINEER PRIOR TO CONSTRUCTION.
8. NO CUTTING OR DRILLING OF STRUCTURAL MEMBERS SHALL BE PERMITTED WITHOUT WRITTEN PERMISSION OF THE ENGINEER.
9. IN THE EVENT THAT ANY FURTHER DATA, INFORMATION OR CLARIFICATION OF THESE PLANS IS REQUIRED, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE A VERBAL AND WRITTEN REQUEST TO THE ENGINEER AT THAT TIME PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES FOUND WITHIN THIS SET OF PLANS.
10. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
11. THE TYPICAL DETAILS SHOWN ON THIS SHEET SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK.
12. IT IS THE INTENTION OF THESE DRAWINGS TO PROVIDE FOR THE FOLLOWING CONTINUITIES:
 1. ALL ROOF TRUSSES SHALL BE CONTINUOUSLY CONNECTED FOR THE FULL LENGTH OF THE ROOF SYSTEM.
 2. ALL WALL BRACING SHALL BE CONNECTED TO THE ROOF.
13. DESIGN LOADS: DEAD

| | |
|--------------------|-----------|
| B.U. ROOF | 4.0 |
| 5/8" OSB | 1.5 |
| TRUSSES @ 24" O.C. | 4.0 |
| CEILING - MISC | 3.5 |
| FIRE SPRINKLERS | 2.0 |
| | 15#/SQ.FT |

 DESIGN ROOF TRUSSES FOR (2) 400# POINT LOADS @ 1/3 POINTS
14. DESIGN LOADS: LIVE

| |
|--------------------|
| 20#/SQ.FT |
| TRUSSES @ 24" O.C. |
15. SEISMIC CRITERIA

| |
|----------|
| SEE T.S. |
|----------|
16. CHARACTER OF FOUNDATION SOIL: SEE SOILS REPORT.
17. DESIGN SOIL PRESSURE: SEE SOILS REPORT.
18. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

9. ALL SLABS ARE TO BE FINISHED WITH A POWER DRIVEN DISC FLOAT ONLY. DUSTING OF CONCRETE WITH DRY CEMENT TO ABSORB EXCESS WATER IS PROHIBITED.
10. AFTER THE INITIAL CONCRETE SET, CONCRETE SHALL BE HAND TROWELLED TO A SMOOTH FINISH SURFACE, FREE OF ANY TOOL MARKS, EXPOSED AGGREGATE, OR OTHER DEFECTS.
11. ALL CONCRETE WORK SHALL BE CLEANED AND PATCHED TO A UNIFORM FINISH. ALL HIGH SPOTS, SLUMPS, EDGES, ETC., SHALL BE REMOVED AS DIRECTED BY THE OWNER OR THE ENGINEER.
12. ALL MOULDS, ORNAMENTS, GROOVES, CUPS, ANCHOR BOLTS, ETC. SHOWN ON ARCHITECTURAL DRAWINGS SHALL BE PROVIDED FOR IN THE FORM WORK BEFORE THE CONCRETE IS POURED.
13. REFER TO BOTH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND SPACING OF ALL PLUMBING FIXTURES.
14. SIDES OF FOOTINGS MAY BE POURED AGAINST NEAT EXCAVATION IF CAVING DOES NOT OCCUR. SEE DETAILS.
15. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE WALLS OR SLAB UNLESS SPECIFICALLY DETAILED.
16. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE DEFORMED BARS AND SHALL CONFORM TO ASTM A-636-16. FABRICATING DETAILS SHALL CONFORM TO ACI MANUAL OF STANDARDS OF PRACTICE.
17. SPLICES IN REINFORCING STEEL SHALL BE LAPPED 30 DIAMS. MIN. STEEL MAY BE TIED AT SPLICES.
18. ALL WELDING OF REINFORCING STEEL SHALL BE WITH LOW HYDROGEN ELECTRODES UNLESS OTHERWISE NOTED AND BE INSPECTED BY APPROVED TESTING LAB PRIOR TO POUR.
19. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO POURING CONCRETE.
20. THE QUALITY AND DESIGN OF CONCRETE SHALL BE IN ACCORDANCE WITH THE CBC EXCEPT ITEMS NOT SPECIFICALLY COVERED THEREIN IN SHALL BE ALSO IN CONFORMANCE WITH ACI 318. CONCRETE SUPPLIER SHALL SUBMIT MIX DESIGN TO LAB OF RECORD FOR REVIEW.
21. ALL REINFORCING SHALL HAVE A MINIMUM CONCRETE COVER AS FOLLOWS, UNLESS OTHERWISE NOTED:

| | |
|-----------------------------------|----|
| SURFACES POURED AGAINST EARTH | 3" |
| FORMED SURFACES EXPOSED TO GROUND | 2" |
22. NOMINAL FINISH FLOOR ELEVATION: +0'-0"
23. ALL FOOTINGS SHALL EXTEND TO FIRM BEARING IN UNDISTURBED SOIL, 1'-0" MIN. (SEE DETAILS, UNLESS OTHERWISE SPECIFIED) OR APPROVED COMPACTED FILL.
24. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF EXTERIOR WALKWAYS.
25. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF NONBEARING PARTITIONS.
26. ALL SLABS ON GRADE SHALL BE 4" THICK UNLESS OTHERWISE NOTED. REINFORCING - #3 @ 18" O.C. E.W. OR #10/10 6" X 6" UNLESS NOTED OTHERWISE.
27. SEE WALL SECTIONS FOR DOWELS PROJECTING FROM FOOTINGS.
28. FOR LOCATIONS OF CONTROL JOINTS IN FLOOR SLAB SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS. 20'-0" MIN. EACH WAY UNLESS NOTED OTHERWISE.
29. CONSTRUCTION JOINTS (CJ) AS SHOWN ON FOUNDATION PLAN, ARCHITECTURAL DRAWINGS.
30. 5 BAGS OF CEMENT ARE REQUIRED PER CUBIC YARD OF CONCRETE PER KERN COUNTY CODE OF BUILDING REGULATIONS 17.08.170

GLULAM:
FOR CAMBER USE 1/200 RADIUS
1.0 GENERAL
1.1 SCOPE
THIS WORK INCLUDES THE COMPLETE FURNISHING AND INSTALLATION OF ALL STANDARD STRUCTURES INC. GLUED LAMINATED BEAMS AS SHOWN ON THE DRAWINGS HEREIN SPECIFIED AND NECESSARY TO COMPLETE THE WORK

CODE APPROVALS
THESE PRODUCTS SHALL BE DESIGNED AND MANUFACTURED TO THE STANDARDS SET FORTH IN ANSI STANDARD A190.1 AND CBC REPORT ER-5714

TRADEMARKS
MEMBERS SHALL BE MARKED WITH THE INDEPENDENT QUALITY AUDIT COMPANY INDICATING CONFORMANCE WITH THE MANUFACTURING, QUALITY ASSURANCE AND MARKETING PROVISIONS OF ANSI STANDARD A190.1

RELATED WORK SPECIFIED ELSEWHERE
A. CARPENTRY AND MILLWORK
B. OPEN WEB WOOD TRUSSES
C. COMPOSITE WOOD I-JOISTS

SUBMITTALS
A. SHOP DRAWINGS
WHEN REQUESTED, SHOP DRAWINGS SHOWING LAYOUT AND DETAILS NECESSARY FOR PROPER PRODUCT PLACEMENT IN THE BUILDING MAY BE PROVIDED BY STANDARD STRUCTURES INC.

PRODUCTION
DO NOT PROCEED WITH FABRICATION AND/OR CUTTING UNTIL SHOP DRAWINGS AND DESIGN CALCULATIONS (WHEN REQUIRED) HAVE BEEN REVIEWED BY THE ARCHITECT AND OR ENGINEER OF RECORD

GENERAL
2.1 MATERIALS
A. LUMBER: 2 INCH (NOMINAL) LAMINATIONS, MOISTURE CONTENT OF ALL LUMBER AT THE TIME OF MANUFACTURE SHALL NOT EXCEED 15%
B. ADHESIVE: ASTM D2559: EXTERIOR TYPE

FABRICATION
A. SIMPLY SUPPORTED MEMBERS: COMBINATION 24F-V4
B. BEAMS, CONTINUOUS OR CANTILEVERED: COMBINATION 24F-V8

APPEARANCE
A. INDUSTRIAL GRADE, EXCEPT USE ARCHITECTURAL APPEARANCE GRADE WHERE NOTED OR EXPOSED TO VIEW

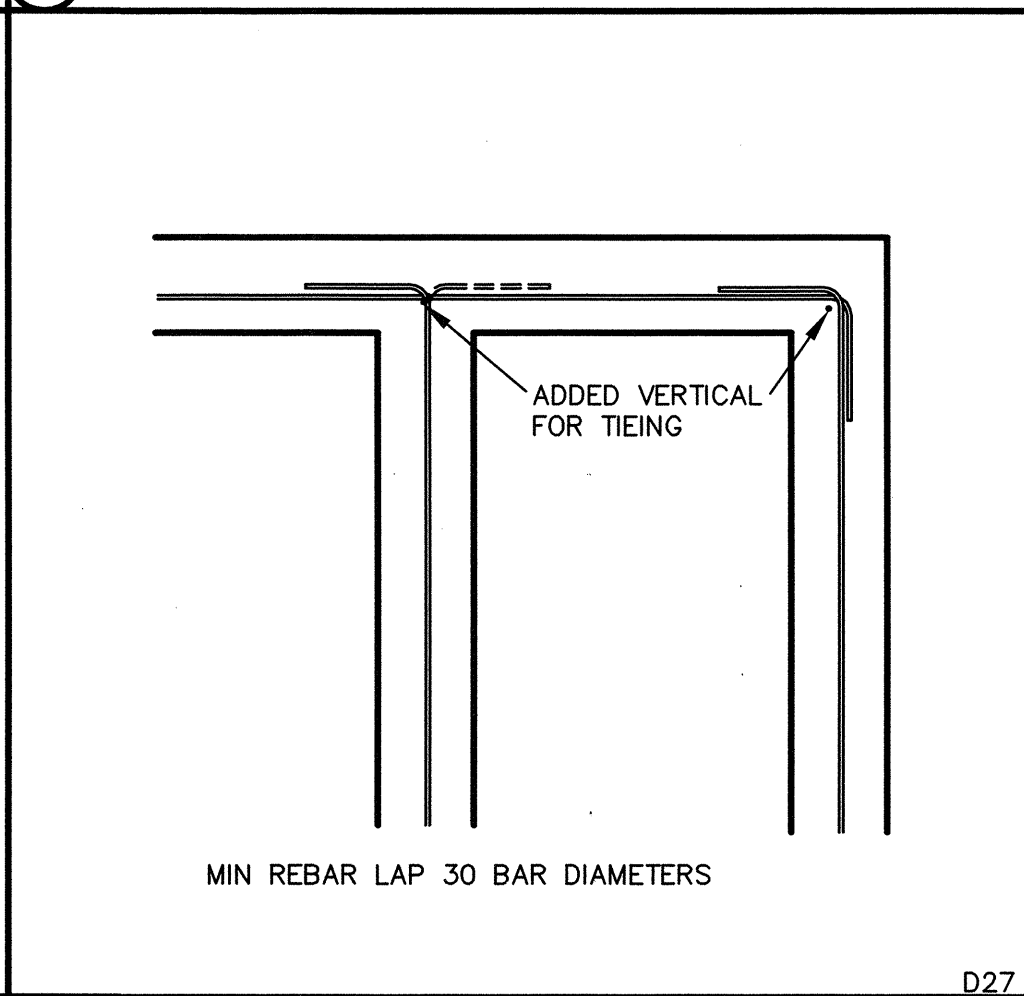
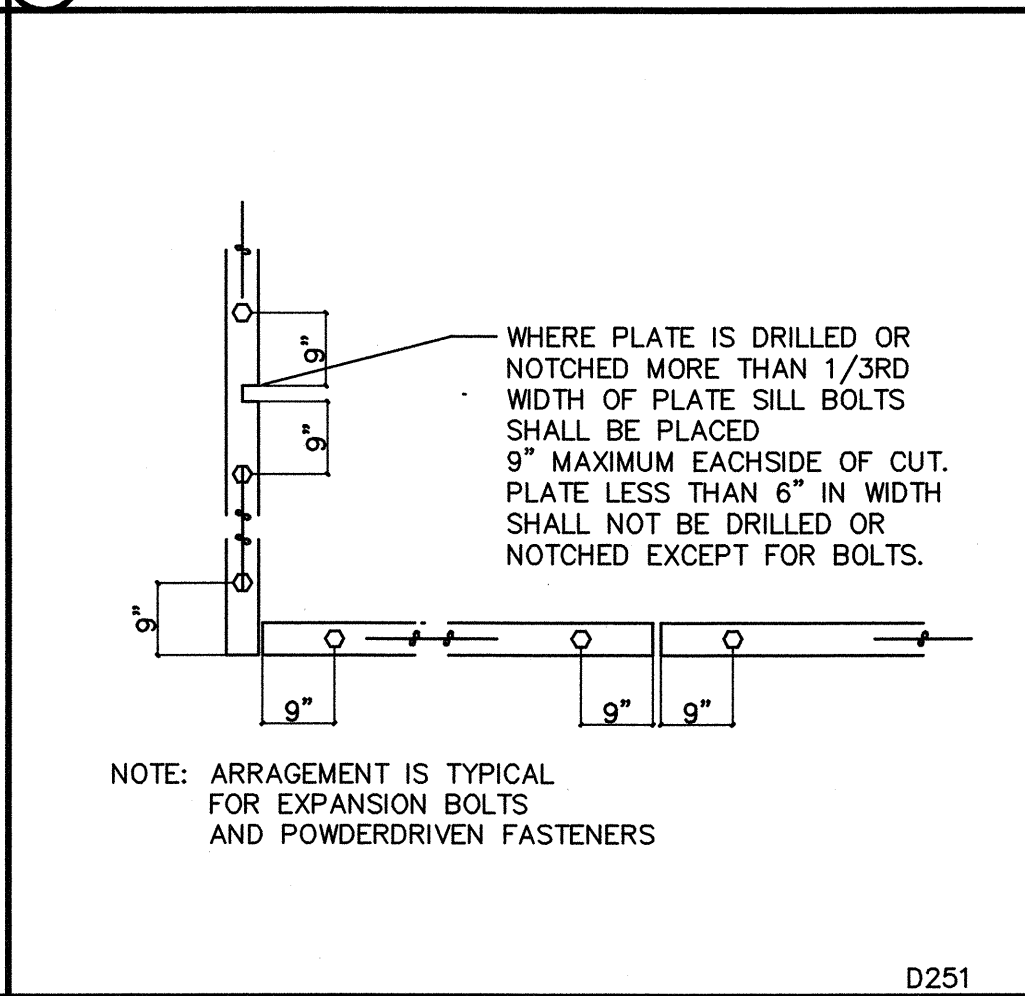
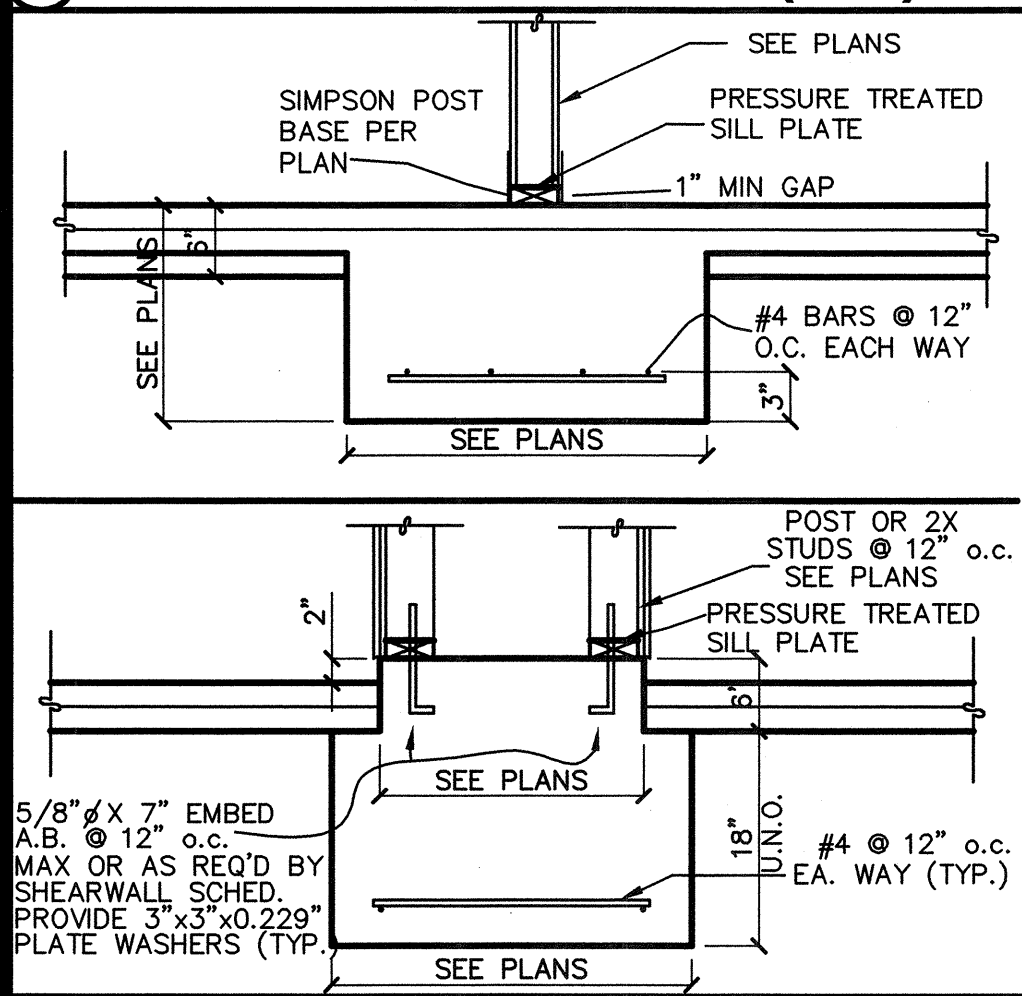
EXECUTION
3.1 ERECTION AND INSTALLATION
A. STANDARD STRUCTURES INC. GLULAM BEAMS, IF STORED PRIOR TO ERECTION, SHALL BE STORED OFF THE GROUND POSITION AND PROTECTED FROM THE WEATHER. THEY SHALL BE HANDLED WITH CARE SO THEY ARE NOT DAMAGED. THEY ARE TO BE ERECTED AND INSTALLED IN ACCORDANCE WITH THE PLANS AND ANY STANDARD STRUCTURES INC. DRAWING AND INSTALLATION SUGGESTIONS THAT MAY BE PROVIDED. TEMPORARY CONSTRUCTION LOADS THAT CAUSE STRESSES BEYOND DESIGN LIMITS ARE NOT PERMITTED. APPARENT DAMAGE TO GLULAM BEAMS IF ANY, SHALL BE REPORTED TO STANDARD STRUCTURES INC. PRIOR TO INSTALLATION.
B. GLUED-LAMINATED BEAM INSPECTION CERTIFICATES SHALL BE SUBMITTED TO THE FIELD INSPECTOR PRIOR TO COMPLETION OF THE FRAME INSPECTION IN ACCORDANCE WITH CBC 1704.6.2

WARRANTY
3.2 THE PRODUCT DELIVERED SHALL BE FREE FROM MANUFACTURING ERRORS OR DEFECTS IN WORKMANSHIP AND MATERIAL.

1 CONDITION @ SHEARWALL (TYP.) 3"

2 FLAG POLE FOOTING 1"

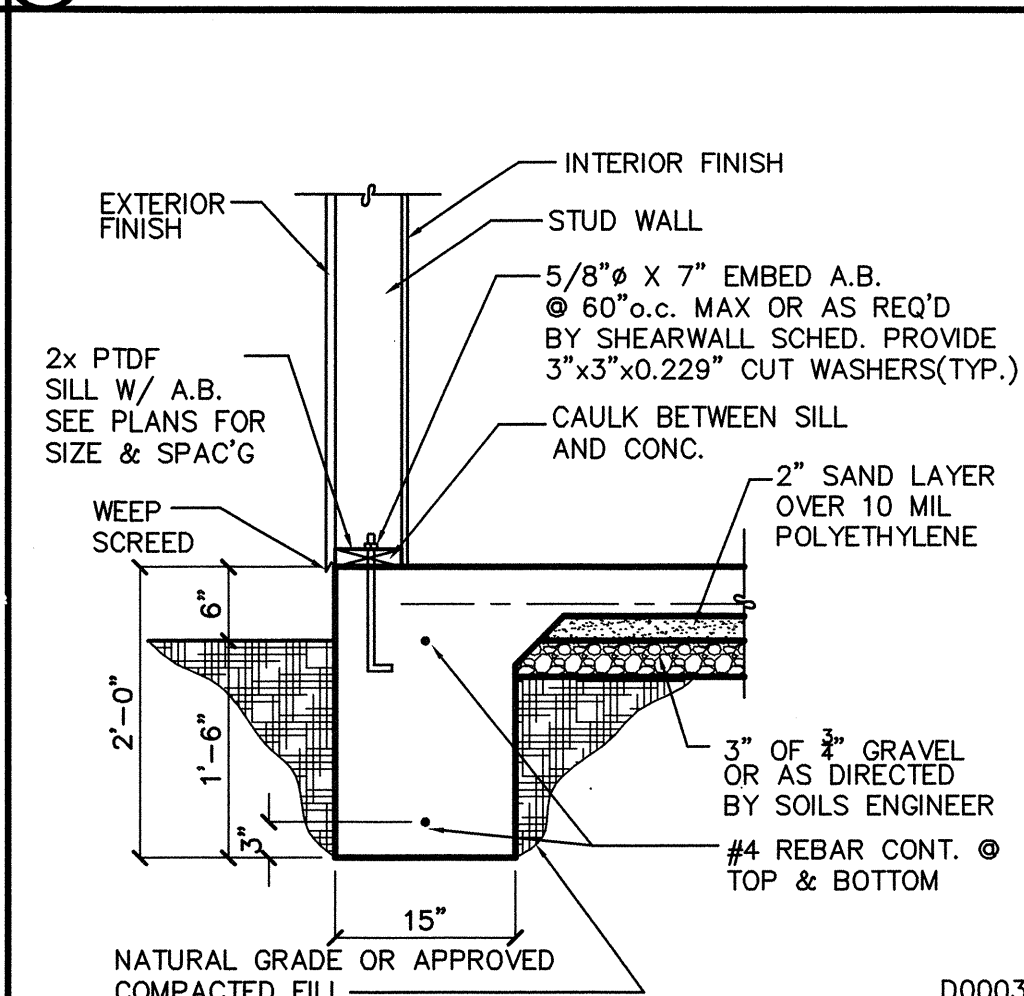
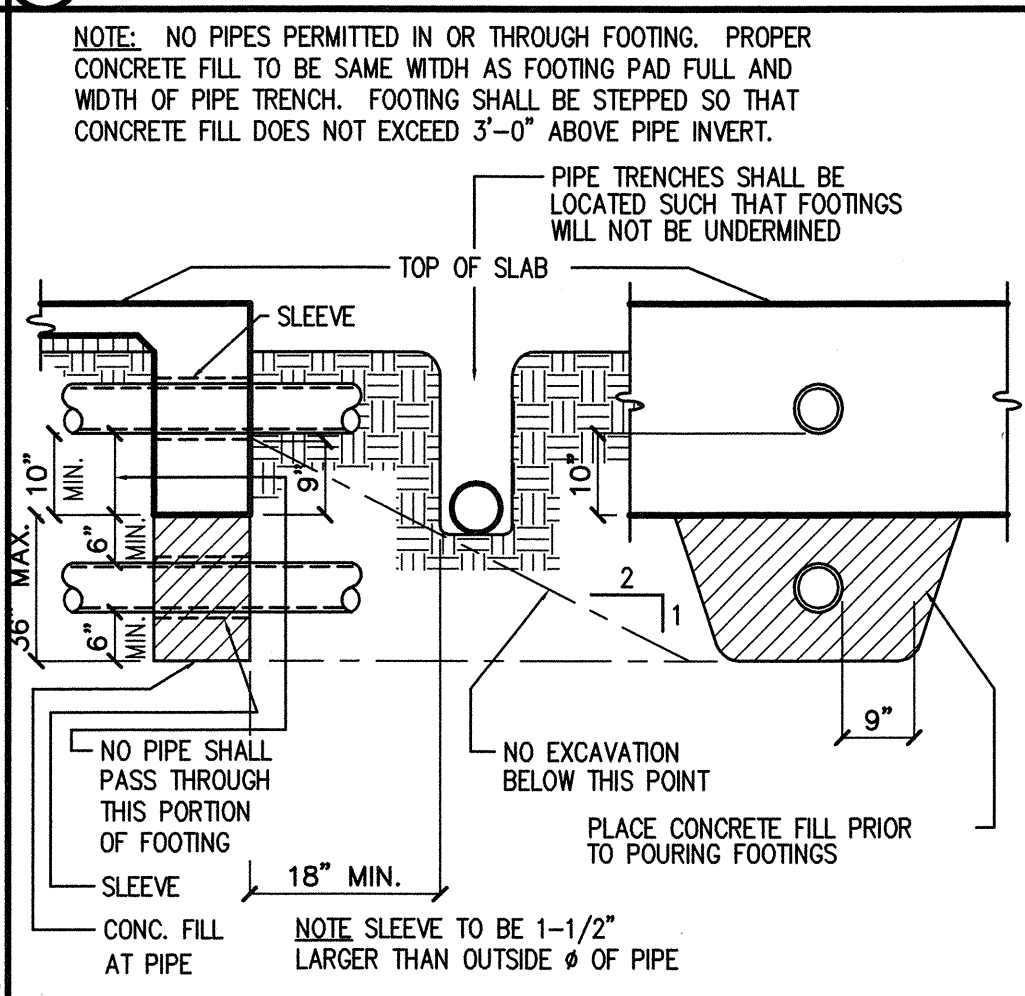
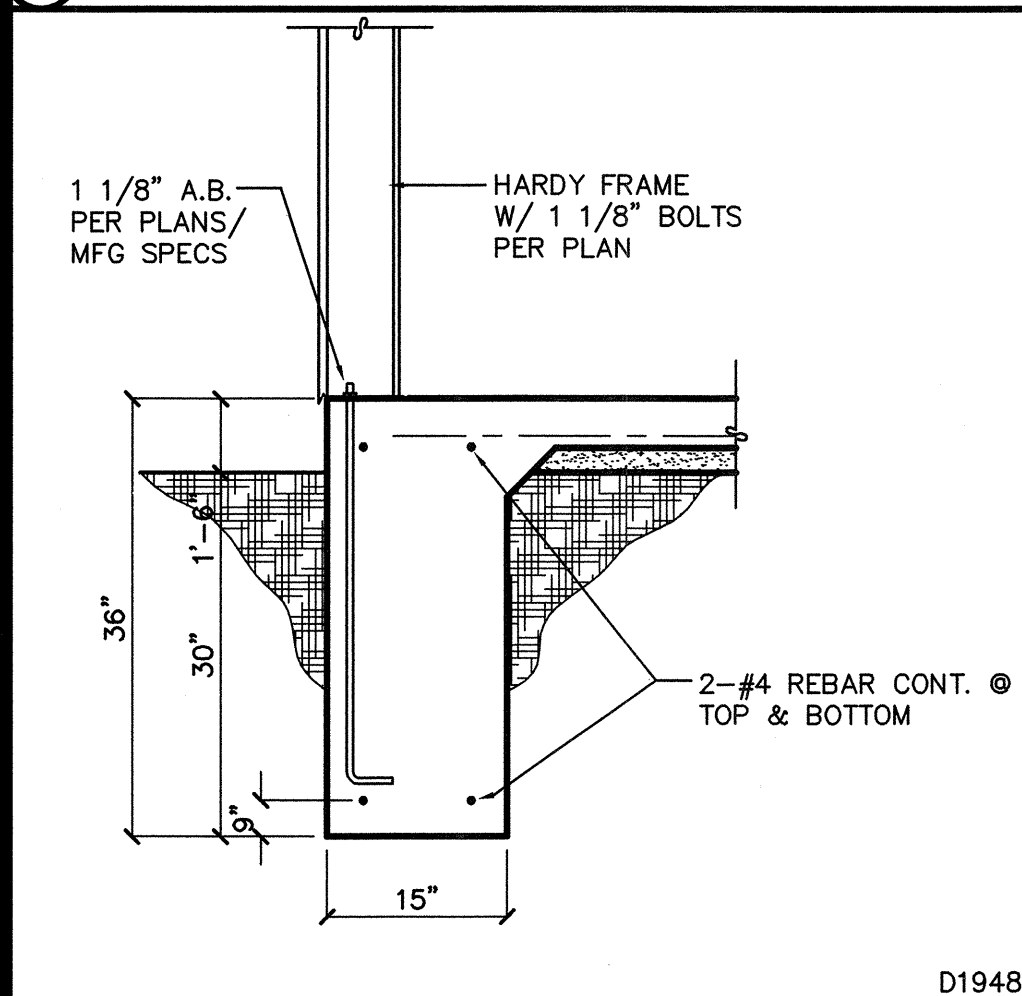
3 PATIO & WALK FOOTING 3/4"



4 POST FOOTING 3/4"

5 TYP. A.B. LAYOUT PLAN 1/2"

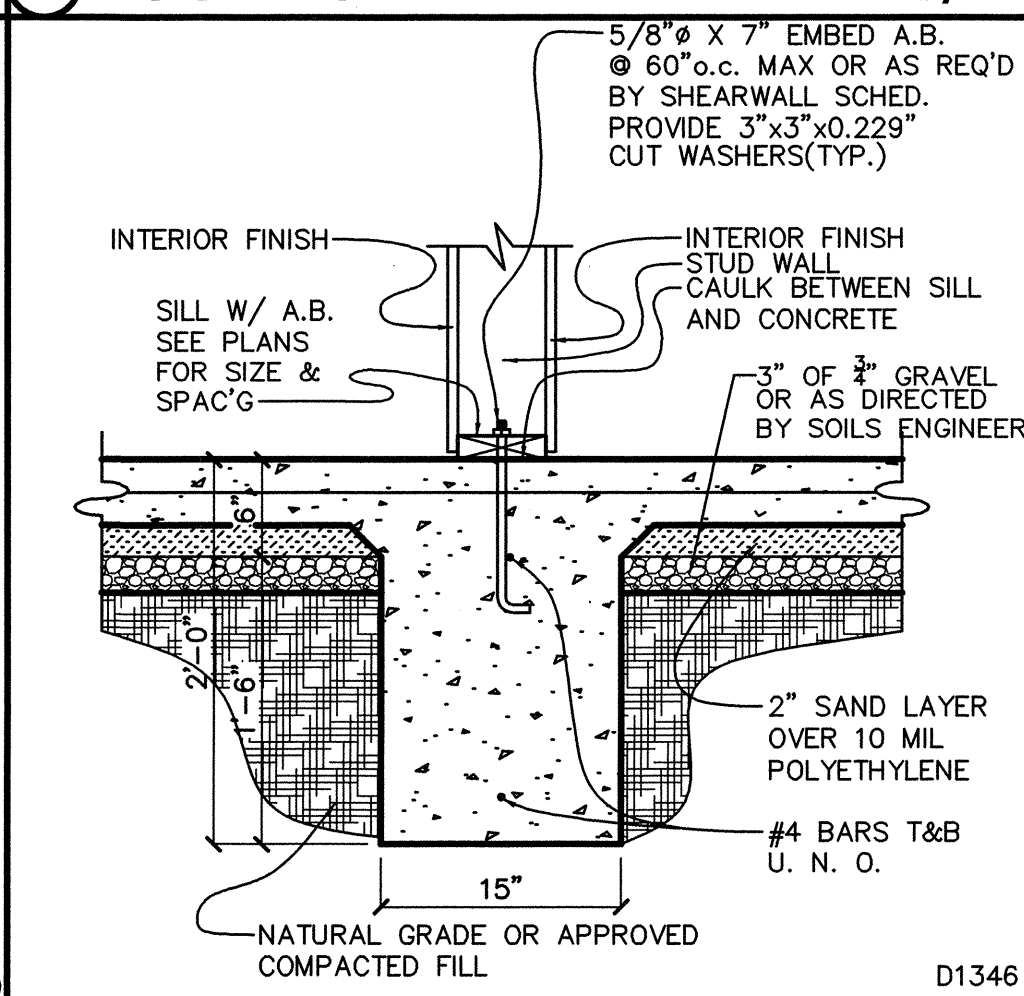
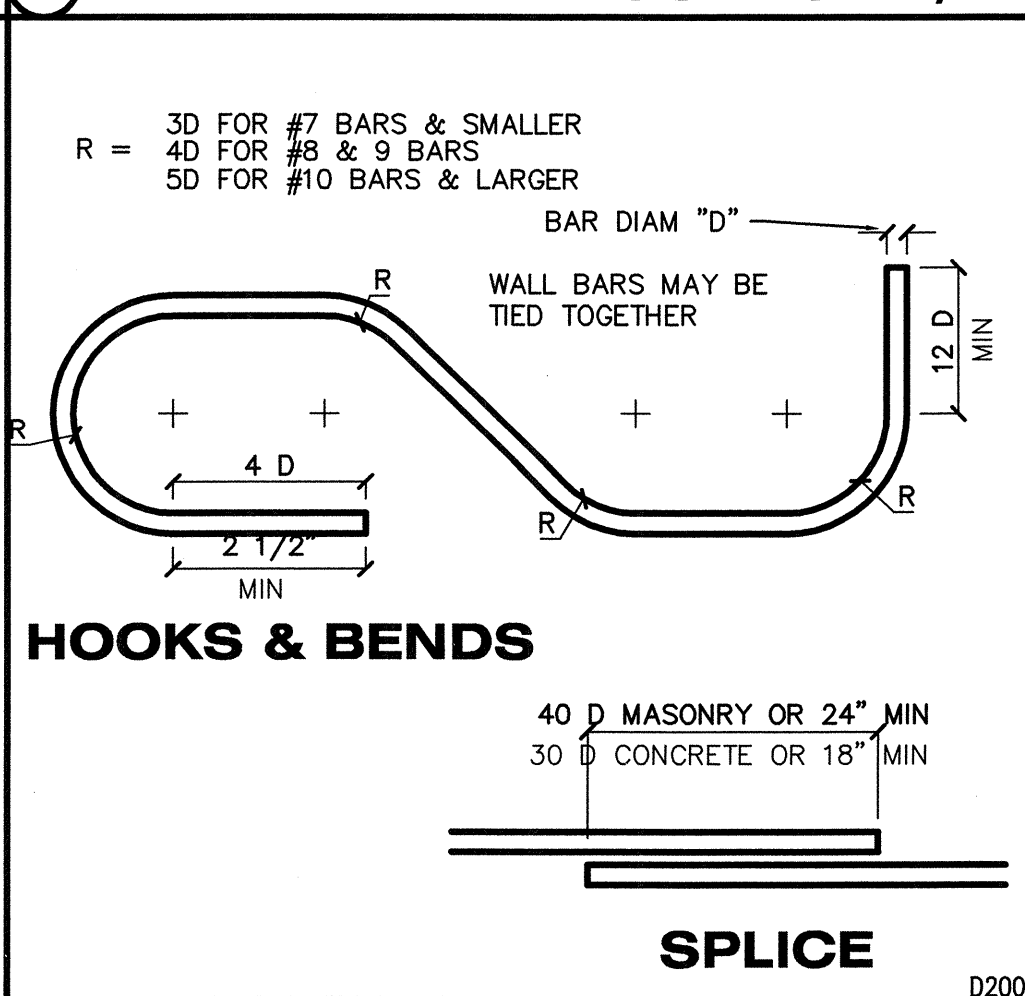
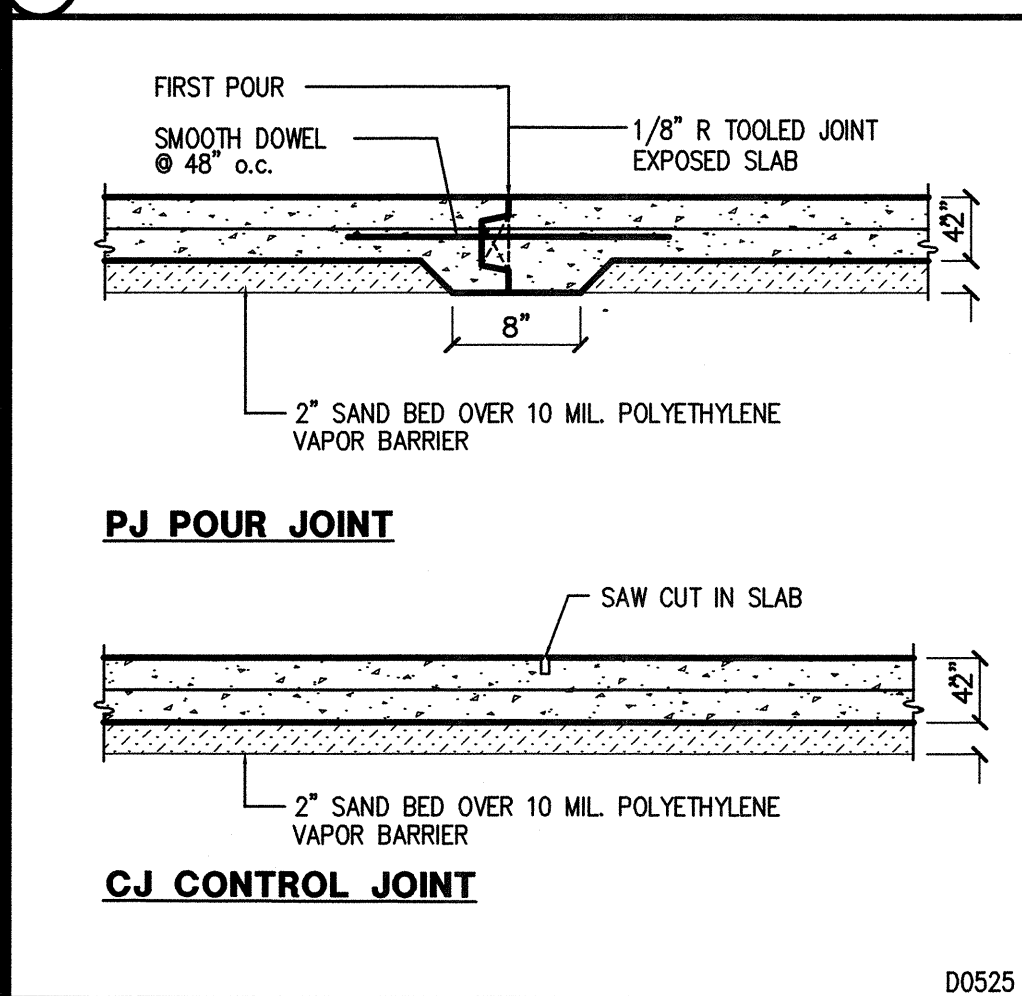
6 REINFORCING BAR SPLICE 1/2"



7 1 1/8" A.B. HARDY FRAME GRADE BEAM FTG 3/4"

8 PIPE & TRENCH LOCATION 1/2"

9 FOOTING DETAIL 3/4"



10 POUR/CONTROL JOINT 1"

11 REINFORCING BARS TYP. N.T.S.

12 INTERIOR FOOTING 1"

ANY SUPPORT SERVICES PERFORMED BY THE ENGINEERS FIELD REPRESENTATIVES DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER, WHETHER OF MATERIAL OR WORK, AND WHETHER PERFORMED PRIOR TO, DURING OR FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS, BUT THEY DO NOT GUARANTEE CONTRACTORS PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF OSHA AND ANY OTHER GOVERNMENTAL ENTITY HAVING JURISDICTION.

SOILS:

1. EARTHWORK PREPARATION TO CONFORM TO SOILS ENGINEER'S RECOMMENDATIONS IN REPORT & ALL PERTINENT CODES.

CONCRETE NOTES:

1. UNLESS OTHERWISE NOTED, $f_c = 3,000$ PSI IN 28 DAYS FOR SLABS, FOOTINGS AND WALLS. USE 3/4" PUMP MIX.
2. ALL CONCRETE SHALL BE REINFORCED. ALL REINFORCING STEEL SHALL BE PROTECTED FROM CONTACT WITH EARTH BY:
 - A. THREE INCHES MIN. CONCRETE SEPARATION WHERE CONCRETE IS POURED AGAINST THE EARTH.
 - B. TWO INCHES MIN. CONCRETE SEPARATION WHERE CONCRETE IS EXPOSED TO EARTH BUT PLACED IN FORMS.
3. FORMS ARE TO BE TIGHT ENOUGH TO PREVENT LEAKING OF CONCRETE OR BUILDING OF FORM. FORMS ARE TO BE LEFT IN PLACE FOR A MIN. OF ONE DAY AFTER POUR. FORM WORK SHOULD BE COORDINATED WITH ALL TRADES FOR PROVISION OF ALL SLEEVES, CHASES, AND KNOCK-OUTS FOR OTHER WORK.

ALLOWABLE SOIL BEARING PRESSURE = 1500 psf

ALL CONSTRUCTION SHALL COMPLY WITH THE ADOPTED ORDINANCES AND POLICIES OF THE GOVERNING AGENCY, COUNTY OF KERN, AND THE LATEST ADOPTED EDITIONS OF THE FOLLOWING:

CALIFORNIA BUILDING CODE (CBC) 2010
AISC STEEL MANUAL 9TH EDITION
ACI

NDS 1997

BOLTS, LAG SCREWS, AND THREADED RODS:

1. ALL THREADED RODS SHALL BE FABRICATED FROM ASTM A-36 BAR STOCK.
2. ALL OTHER BOLTS SHALL BE ASTM A-307, UNLESS OTHERWISE SPECIFIED.

CONCRETE BLOCK NOTES:

1. ALL CONCRETE BLOCK UNITS SHALL BE GRADE "N" TYPE 1 CONFORMING TO ASTM C-90.
2. GROUT AND MORTAR SHALL TEST 2,500 PSI MIN. AT 28 DAYS AND, SHALL BE IN COMPLIANCE WITH THE LATEST CBC AND LOCAL CODES, ETC.
3. HORIZONTAL BARS SHALL BE PLACED IN BOND BEAM UNITS.
4. VERTICAL BARS SHALL BE PLACED 2" FROM FACE OF WALL. ALTERNATE FACES EXCEPT AS NOTED OTHERWISE AND SHALL BE HELD IN POSITION TOP AND BOTTOM AND INTERVAL NOT EXCEEDING 192 DIAMETERS.
5. ALL CORNER CELLS AND END CELLS SHALL HAVE TWO VERTICAL BARS EXCEPT AS SHOWN.
6. HORIZONTAL BARS AT SPLICES AND CORNERS SHALL HAVE 24" MIN. OR 40 BAR DIAMETER LAP WHICH EVER IS GREATER. VERTICAL REBARS SHALL BE FULL HEIGHT (BUT MAY BE SPLICED WITH 40 BAR DIAMETER LAP).
7. PROVIDE FOUNDATION DOWELS TO MATCH VERTICAL STEEL.
8. ALL CELLS SHALL BE GROUTED SOLIDLY UNLESS NOTED OTHERWISE ON FOUNDATION PLAN.
9. LINTEL BEAM OVER OPENING SHALL BE GROUTED COMPLETELY IN A SINGLE CONTINUOUS OPERATION.
10. CLEAN OUT REQUIRED AT THE BOTTOM OF ALL CELLS OF EACH POUR WHEN GROUT POUR IS IN EXCESS OF 4'-0" IN HEIGHT.
11. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE LATEST CBC (2010).
12. VERTICAL REINFORCING SHALL BE CENTERED IN OPEN END UNITS AND SET BEFORE BLOCK WORK COMMENCES.
13. LIGHT WEIGHT CONCRETE BLOCK SPECIFICATIONS: LIGHT WEIGHT CONCRETE BLOCK SHALL WEIGH 72 LBS. PER SQUARE FOOT AS MANUFACTURED BY CALCRETE OR APPROVED EQUAL.
14. ALL BAR LAPS TO BE WIRE TIED TOGETHER @ 8" o.c. (TYP)
15. CMU BLOCKS $f_m = 1,500$ psi

PASQUINI ENGINEERING INCORPORATED
903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (805) 328-9600
Fax: (805) 328-9050

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

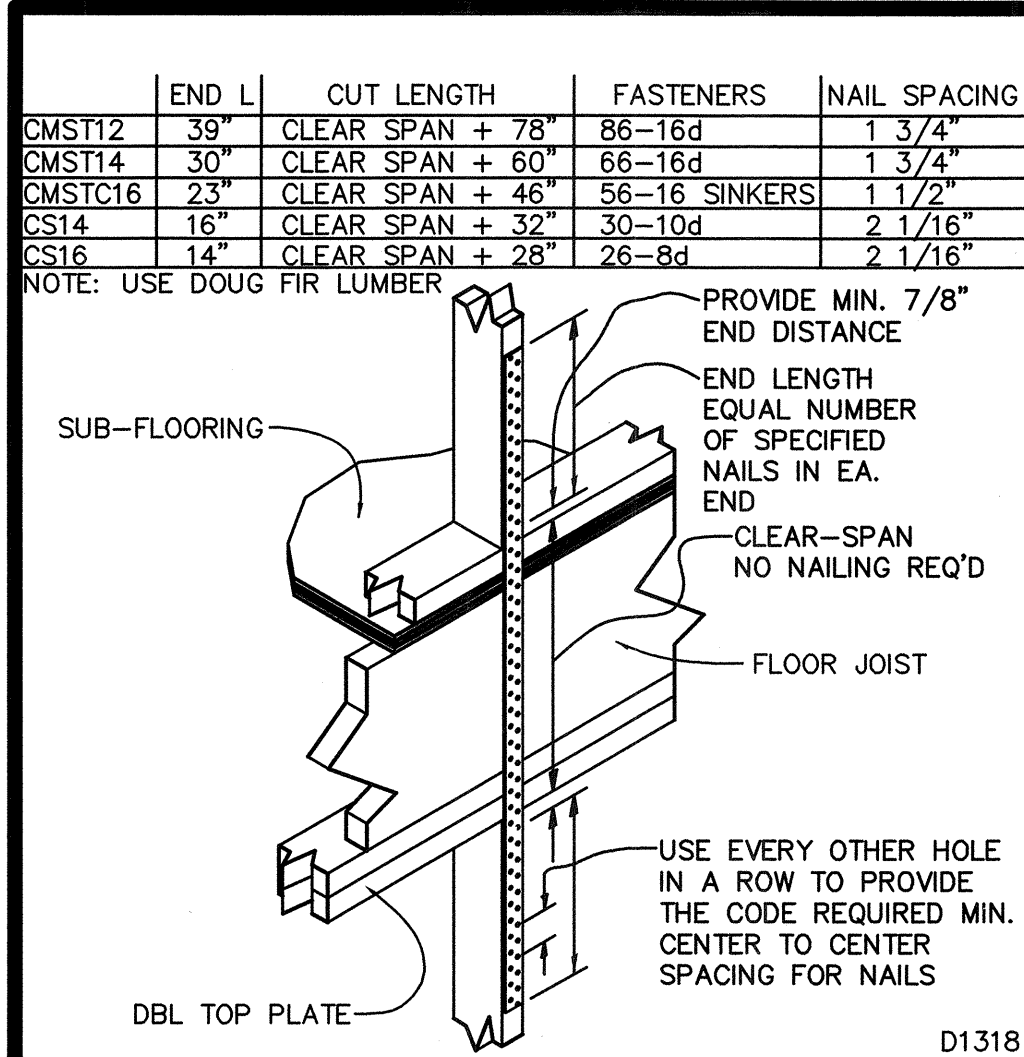
THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| DWG. BY | L.H. |
|----------|---------|
| CHK'D BY | |
| DATE | 5-12-10 |
| JOB NO. | 6345 |
| FILE NO. | 634531 |

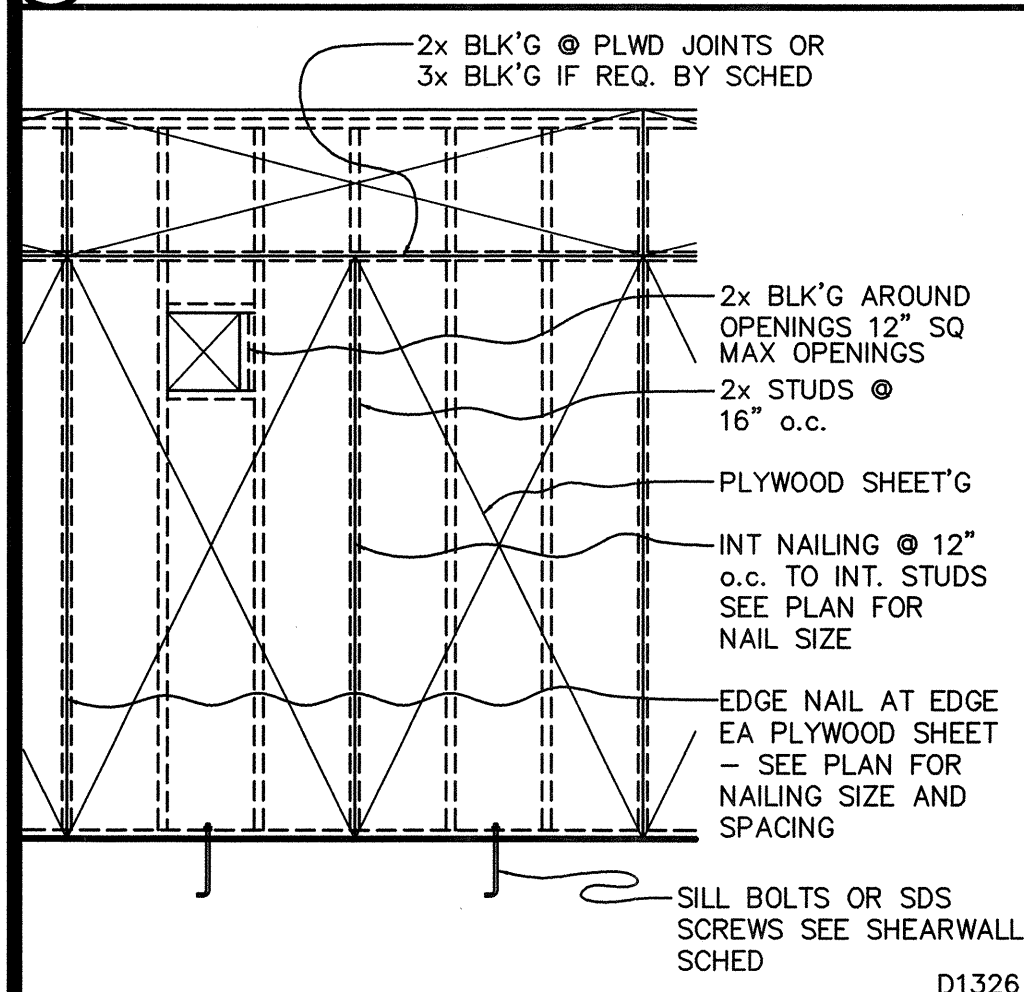
REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA
EXP. 12/31/12

S-1

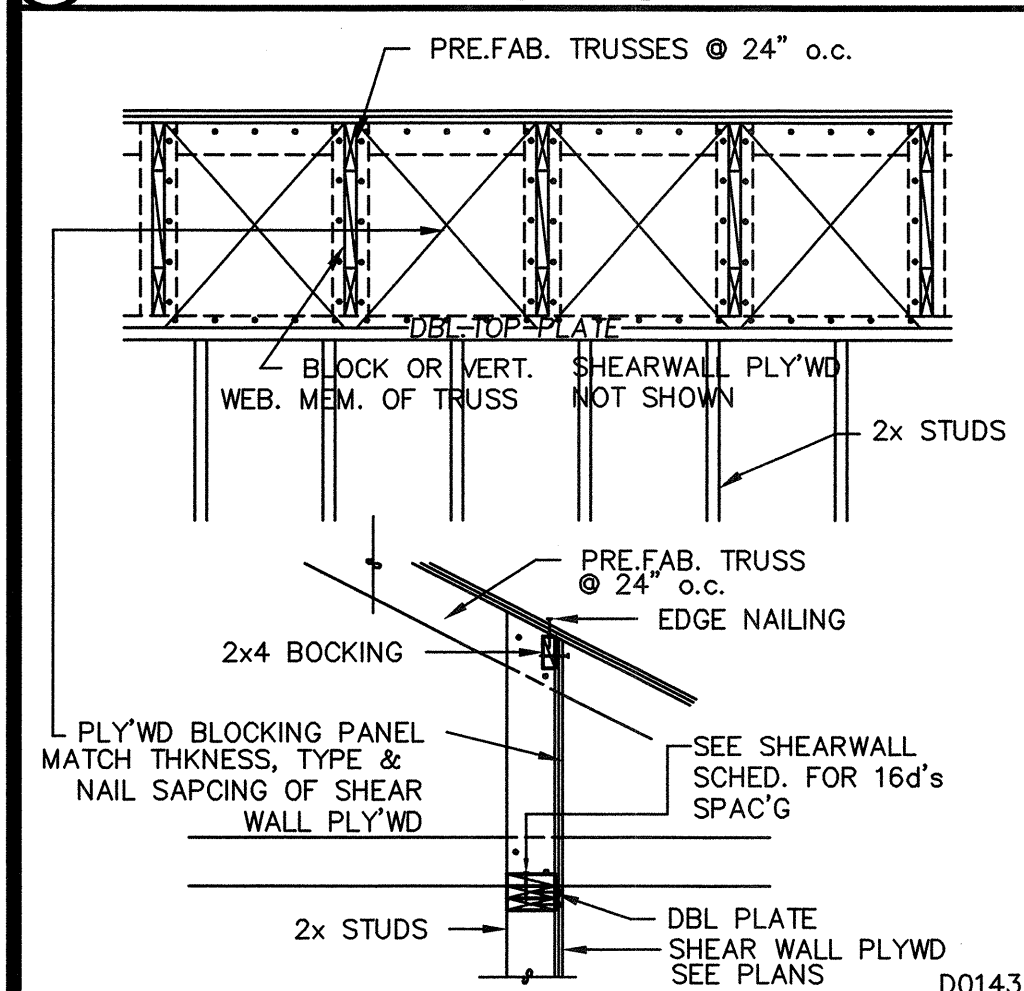
SHEET OF SHEET



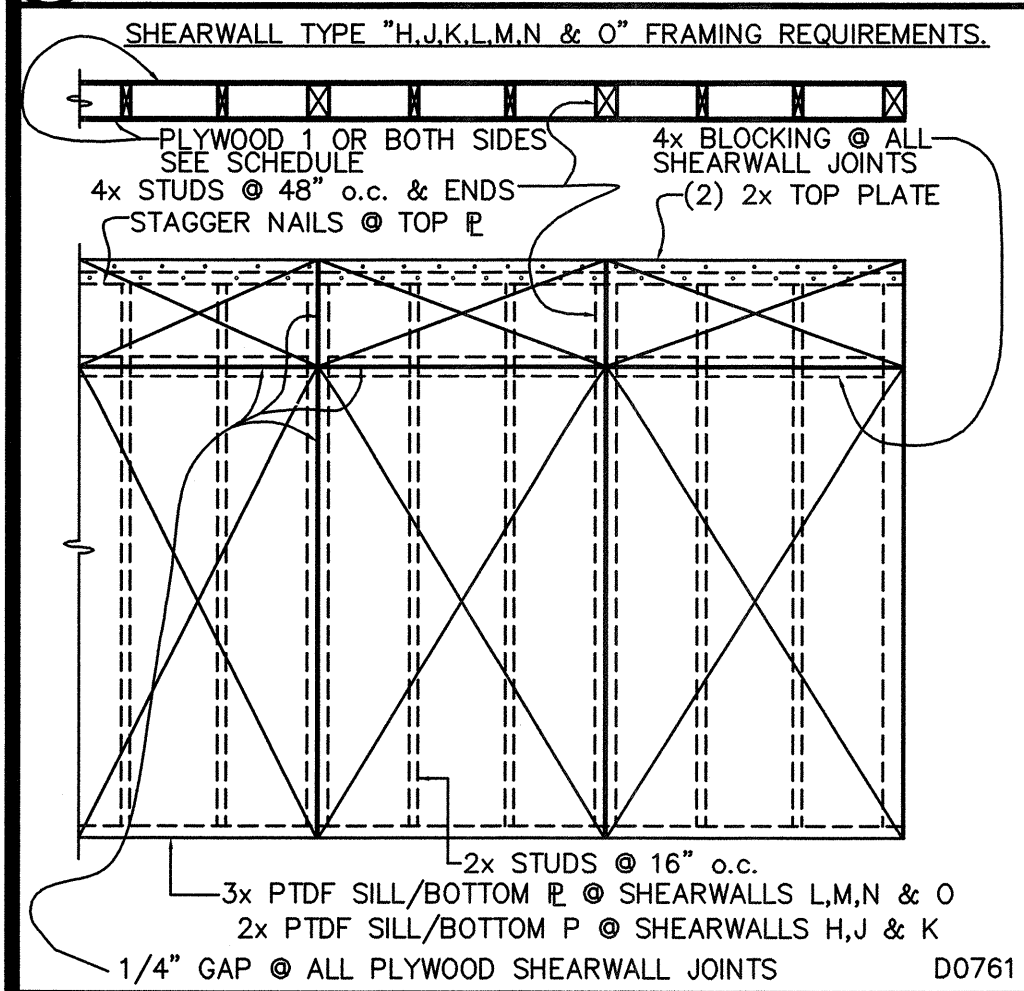
1) TYP CS INSTALLATION FLOOR TO FLOOR 1"



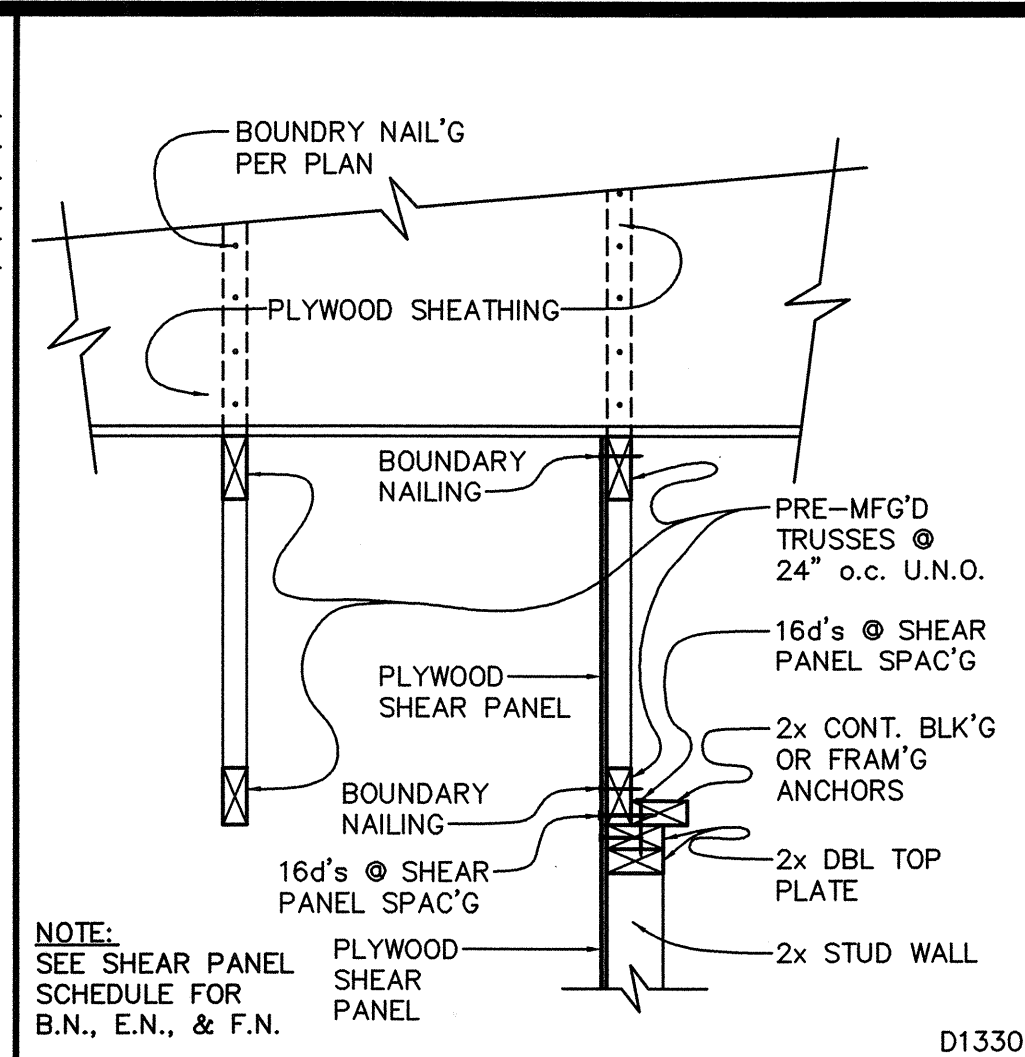
2) SHEAR WALL (TYP) 3/8"



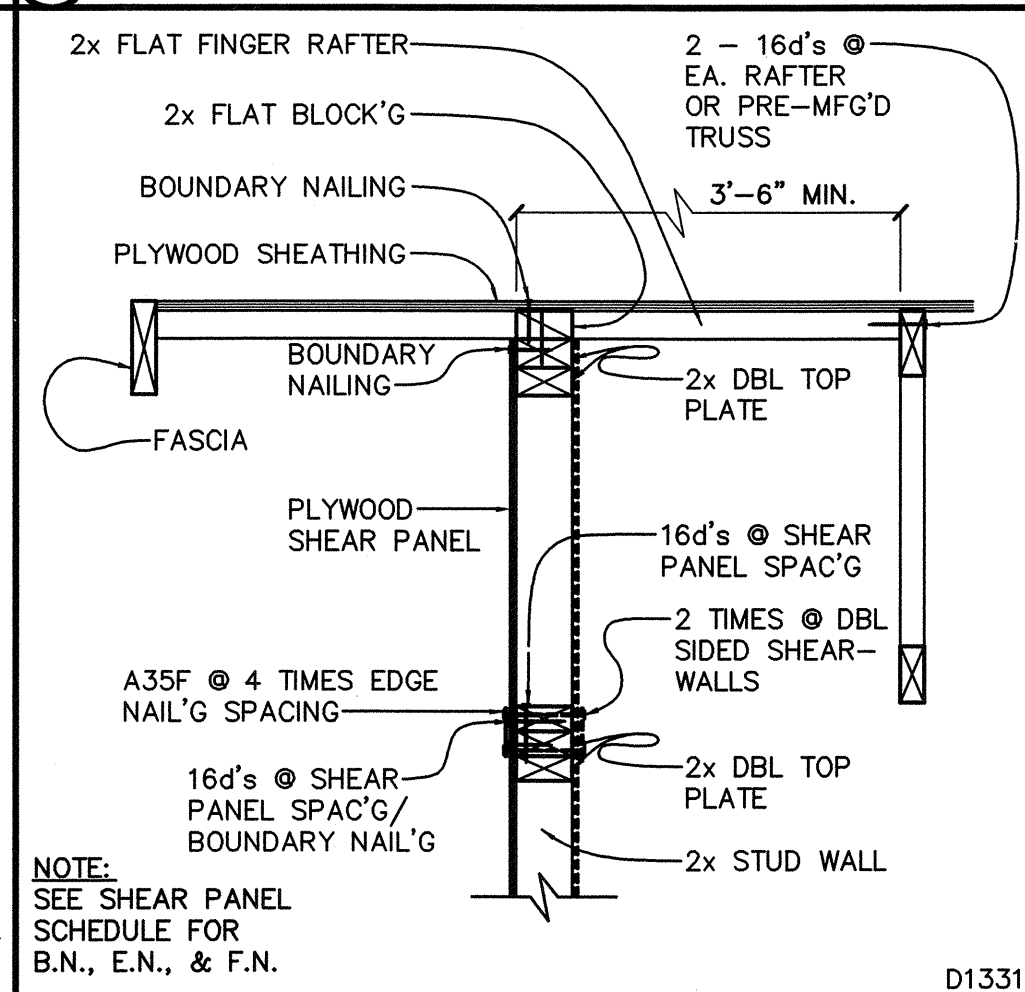
3) BLCK'G PNL'S @ SHR.WALL 1/2"



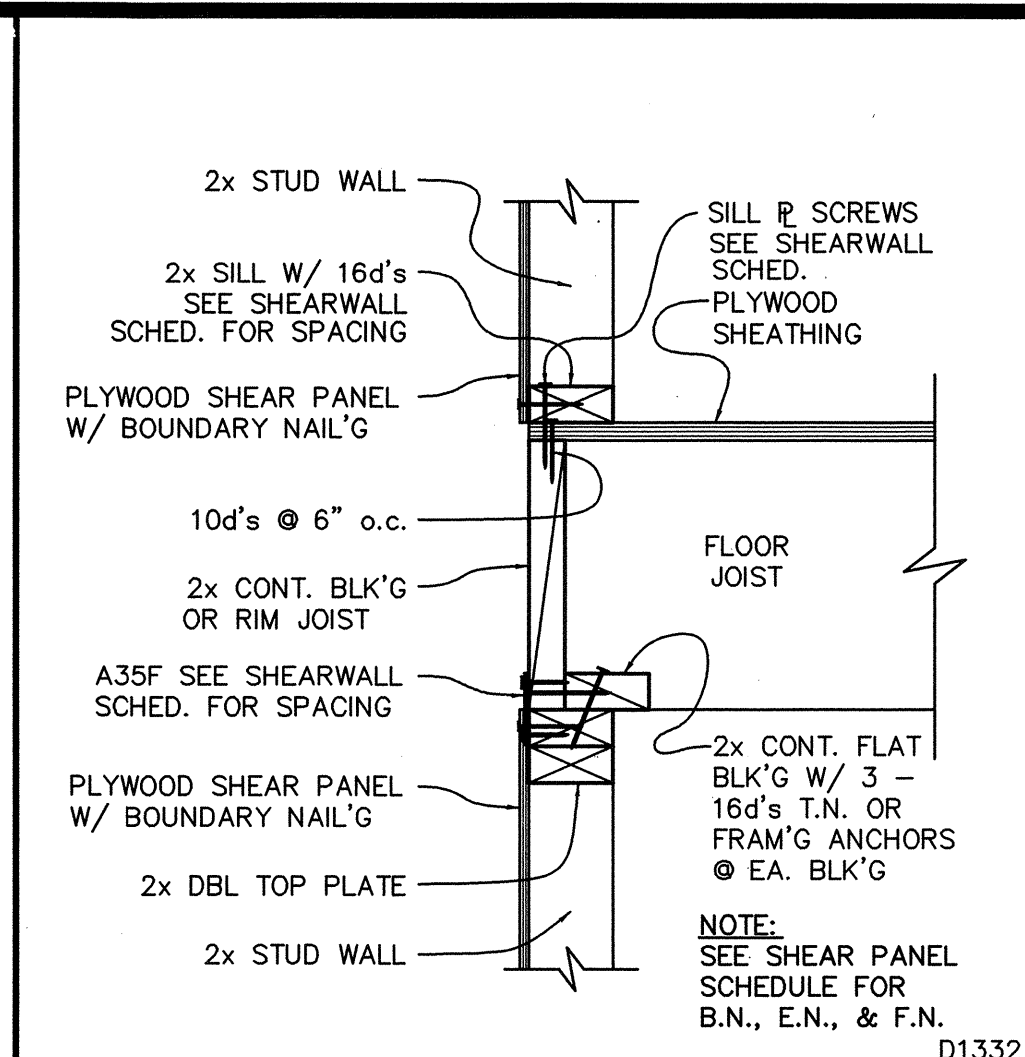
4) SHEARWALL DETAIL 3/8"



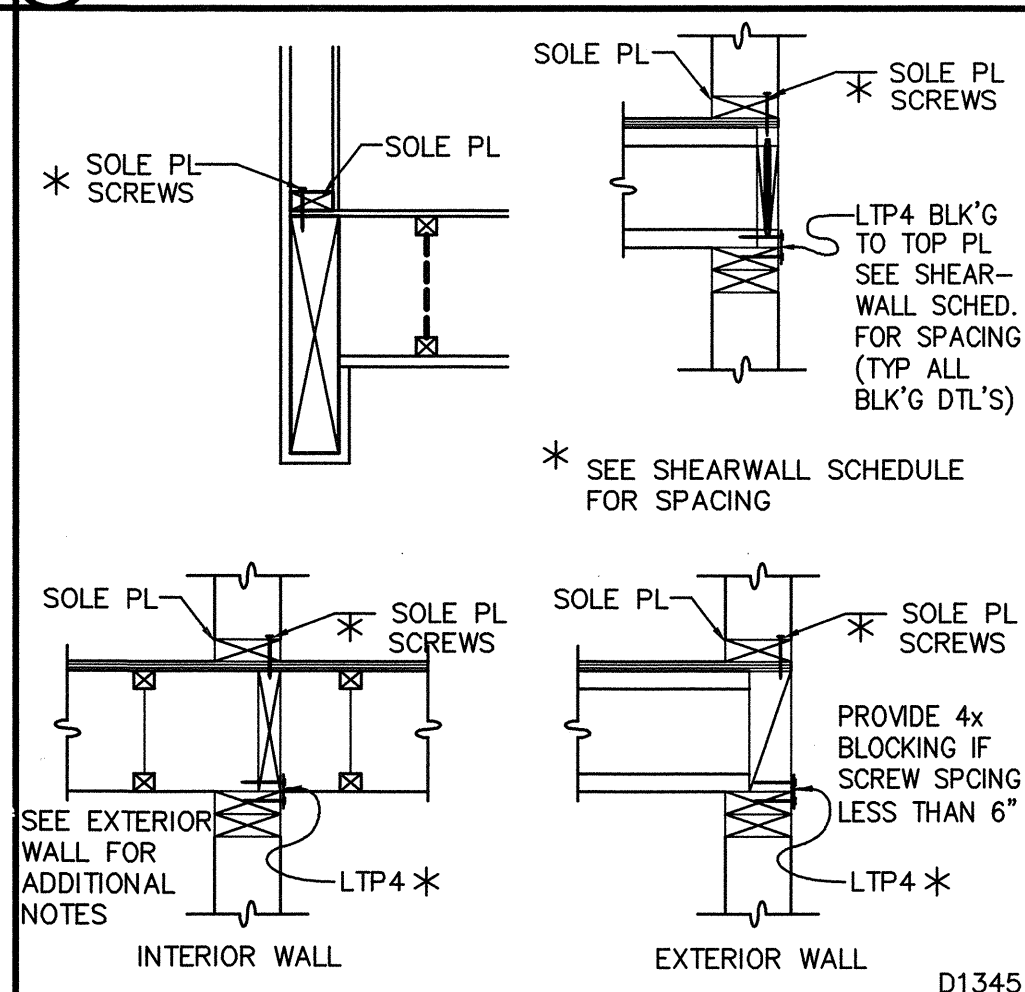
5) TRUSS TO SHEAR WALL CONN. 1"



6) SHEAR WALL CONN. @ RAKE 1"



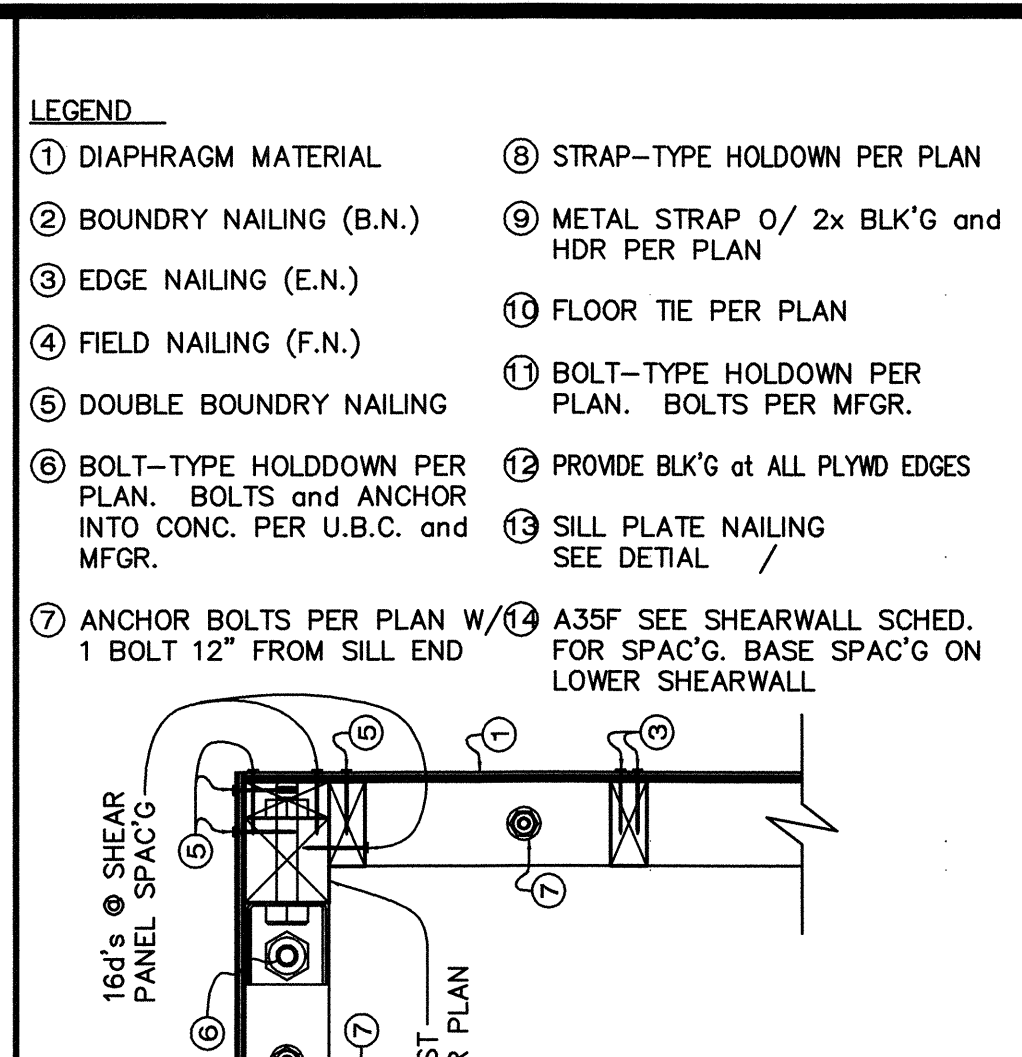
7) SHEAR TRANSFER 1 1/2"



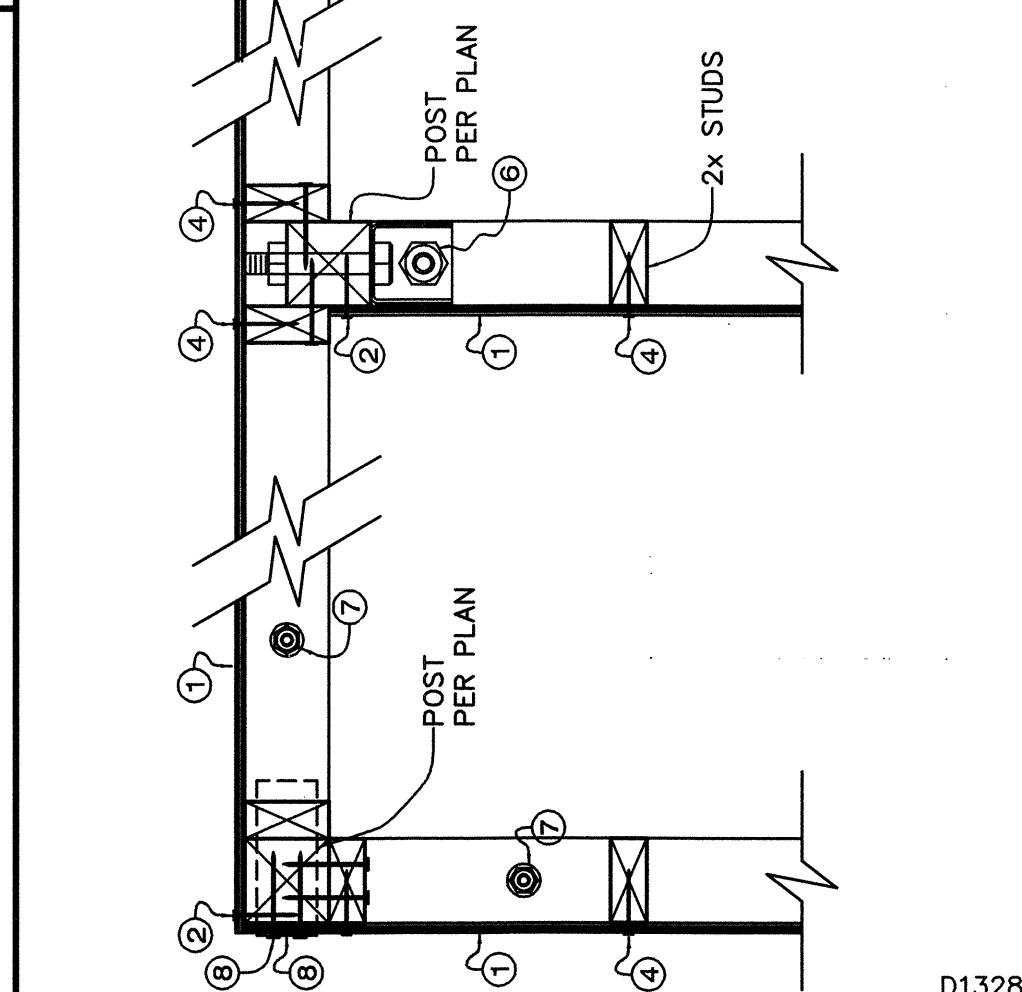
14) TYP. SHEAR WALL (PLAN) 1 1/2"

| SHEARWALL SCHEDULE (APA RATING REQUIRED) | | | |
|--|--|---|---|
| TYPE | SHEARWALL | CONCRETE FLOORS OR WOOD FLOORS | * 2 STORY OR WOOD FLOORS |
| A | 1/2" GYPSUM WALLBOARD, UNBLOCKED, W/ 5d COOLER NAILS @ 7" o.c., ALL STUDS, TOP & BOTTOM PLATES. 1 SIDE @ 50 /FT, BOTH SIDES 100 /FT | 1 SIDE 5/8" @ 72" o.c. BOTH SIDES 5/8" @ 72" o.c. | 1 SIDE 16d COM. @ 16" o.c. BOTH SIDES 16d COMMON @ 12" o.c. |
| B | 1/2" GYPSUM WALLBOARD, UNBLOCKED, W/ 5d COOLER NAILS @ 4" o.c., ALL STUDS, TOP & BOTTOM PLATES. 1 SIDE @ 75 /FT, BOTH SIDES 150 /FT | 1 SIDE 5/8" @ 72" o.c. BOTH SIDES 5/8" @ 60" o.c. | 1 SIDE 16d COM. @ 12" o.c. BOTH SIDES 16d COMMON @ 6" o.c. |
| STUCCO | USE 7/8" THICK, EXPANDD METAL/ WOVEN WIRE LATH & PORTLAND CEMENT, UNBLKD W/ NO. 11 GA. 1 1/2" LONG 7/16" HEAD NO. 16 GA. STAPLE, 7/8" LEGS @ 6" o.c. ALL STUDS, TP & BTM PLATES & BLKG. 180 /FT | 5/8" @ 72" o.c. | SDS 1/4X6 @ 18" o.c. |
| STUCCO | USE 7/8" THICK, EXPANDD METAL/ WOVEN WIRE LATH & PORTLAND CEMENT, UNBLKD W/ NO. 11 GA. 1 1/2" LONG, 7/16" HEAD NO. 16 GA. STAPLE, 7/8" LEGS @ 3" o.c. ALL STUDS, TP & BTM PLATES & SHEARWALL EDGES AT 6" o.c. ALL INTERMEDIATE STUDS & BLKG. 260 /FT | 5/8" @ 48" o.c. | SDS 1/4X6 @ 12" o.c. |
| STUCCO | USE 7/8" THICK, EXPANDD METAL/ WOVEN WIRE LATH & PORTLAND CEMENT, UNBLKD W/ NO. 11 GA. 1 1/2" LONG, 7/16" HEAD NO. 14 GA. STAPLE, 1 1/4" LEGS @ 4 1/2" o.c. ALL STUDS, TP & BTM PLTS & SHRWL EDGES @ 6" o.c. ALL INTERMEDIATE STD'S & BLOCK'G. 300 /FT | 5/8" @ 32" o.c. | SDS 1/4X6 @ 10" o.c. |
| F | 3/8" OR 7/16" OSB/CDX STR II 8d COMMON NAILS @ 6" o.c. EDGE & 12" FIELD SPACING. BLOCK EDGES 260 /FT | 5/8" @ 60" o.c. | SDS 1/4X6 @ 12" o.c. * A35 @ 18" o.c. |
| A | 15/32" STR I PLYWOOD, W/ 10d COMMON NAILS @ 6" o.c. EDGE & 12" FIELD SPACING. BLOCK EDGES 340 /FT | 5/8" @ 42" o.c. | SDS 1/4X6 @ 8" o.c. * A35 @ 16" o.c. |
| H | 3/8" OR 7/16" OSB/CDX STR II PLYWOOD 8d COMMON NAILS @ 4" o.c. EDGE & 12" FIELD SPACING. BLOCK EDGES 380 /FT | 5/8" @ 16" o.c. | SDS 1/4X6 @ 8" o.c. * A35 @ 16" o.c. |
| A | 3/8" OR 7/16" OSB/CDX STR II PLYWOOD 8d COMMON NAILS @ 3" o.c. EDGE & 12" FIELD SPACING. BLOCK EDGES 490 /FT | 5/8" @ 16" o.c. | SDS 1/4X6 @ 6" o.c. * A35 @ 12" o.c. |
| K | 3/8" OR 7/16" OSB/CDX STR II PLYWOOD 8d COMMON NAILS @ 2" o.c. EDGE & 12" FIELD SPACING. BLOCK EDGES 590 /FT | 5/8" @ 12" o.c. | SDS 1/4X6 @ 4" o.c. * A35 @ 10" o.c. |
| A | TYPE "H" BOTH SIDES SEE DTL 6 THIS SHEET 760 /FT | 5/8" @ 16" o.c. | SDS 1/4X6 @ 3" o.c. * A35 @ 6" o.c. |
| A | TYPE "J" BOTH SIDES SEE DTL 6 THIS SHEET 980 /FT | 3/4" @ 16" o.c. | SDS 1/4X6 @ 3" o.c. * A35 @ 6" o.c. |
| A | TYPE "K" BOTH SIDES SEE DTL 6 THIS SHEET 1280 /FT | 5/8" @ 12" o.c. | SDS 1/4X6 @ 3" o.c. * A35 @ 6" o.c. |
| A | 15/32" STR I PLYWOOD W/ 10d COM. NAILS @ 2" o.c. EDGE & 12" o.c. FIELD SPACING USE 3X OR 4X PTDF SOLE PS SPECIAL INSPECTION REQ'D OF WOOD PS STUDS & BLOCK'G, NAIL'G & ANCHOR BOLTS SEE DTL 6 THIS SHEET 1740 /FT | 3/4" @ 8" o.c. | |
| A | 5/16" CDX STR II PLY 6d COM. NAILS @ 3" o.c. EDGE & 12" o.c. FIELD SPACING BLOCK EDGES 2X STUDS @ 16" o.c. 2X PTDF SILL 350 /FT | 5/8" @ A.B. @ 42" o.c. | SDS 1/4X6 @ 8" o.c. * A35 @ 16" o.c. |

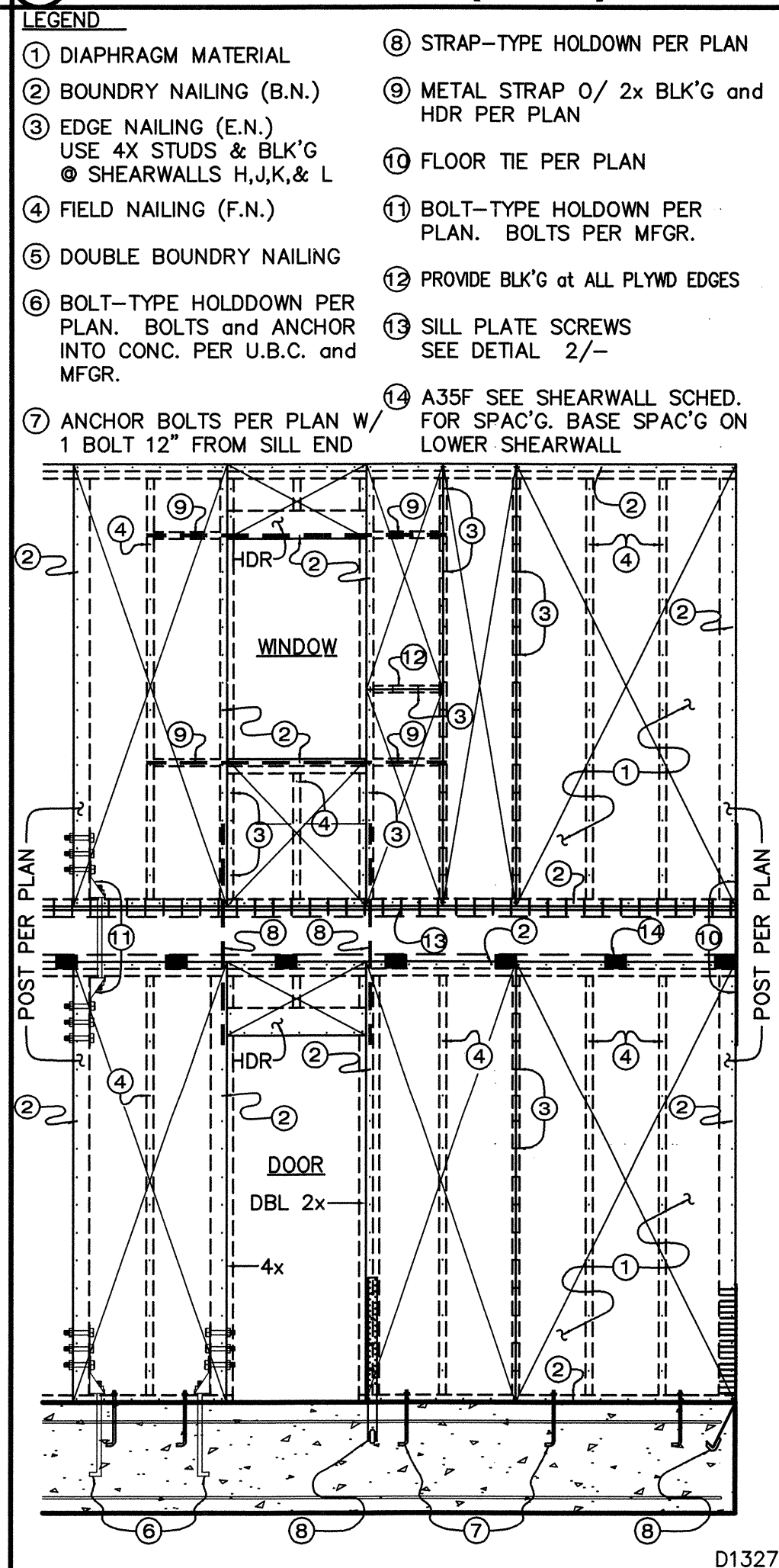
16) SHEAR WALL ELEV. (TYP) 3/8"



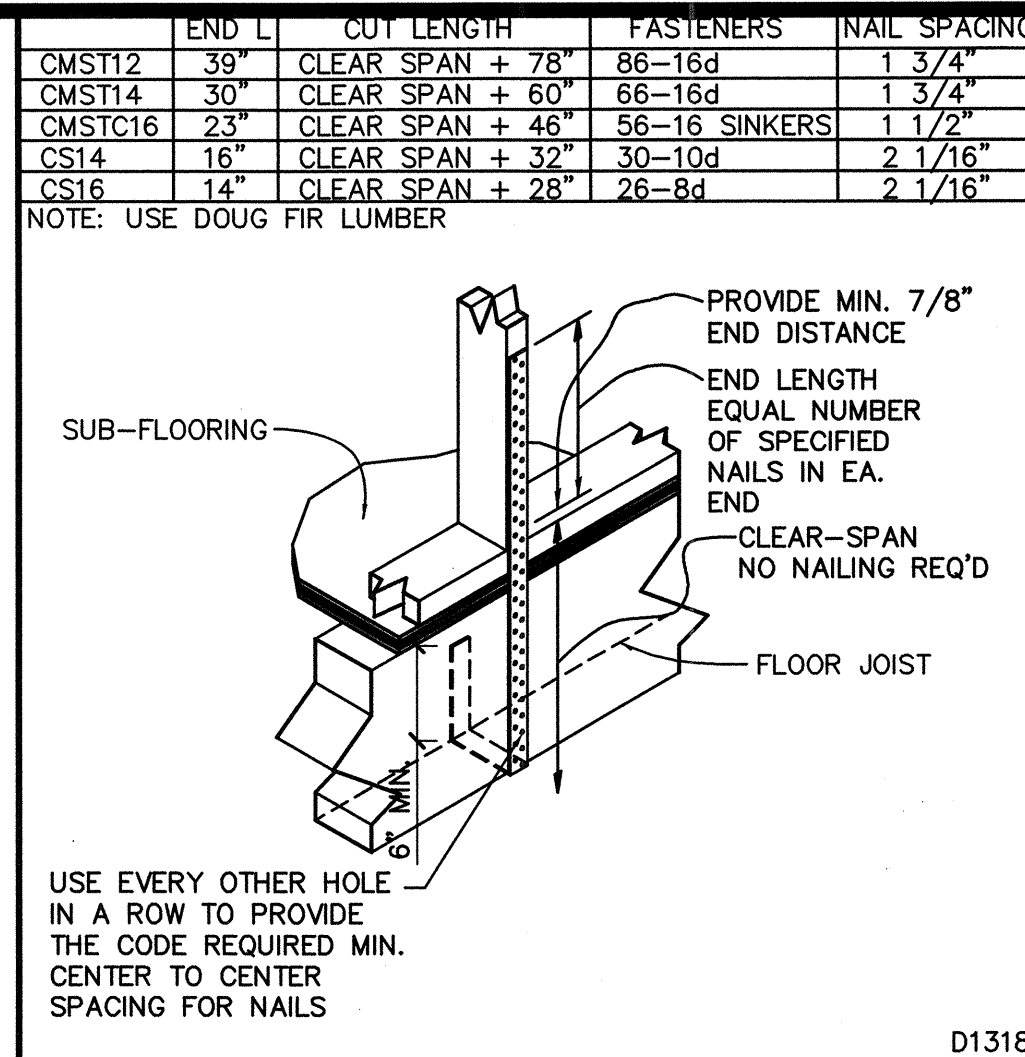
17) TYP CS INSTALLATION FLOOR TO FLOOR 1"



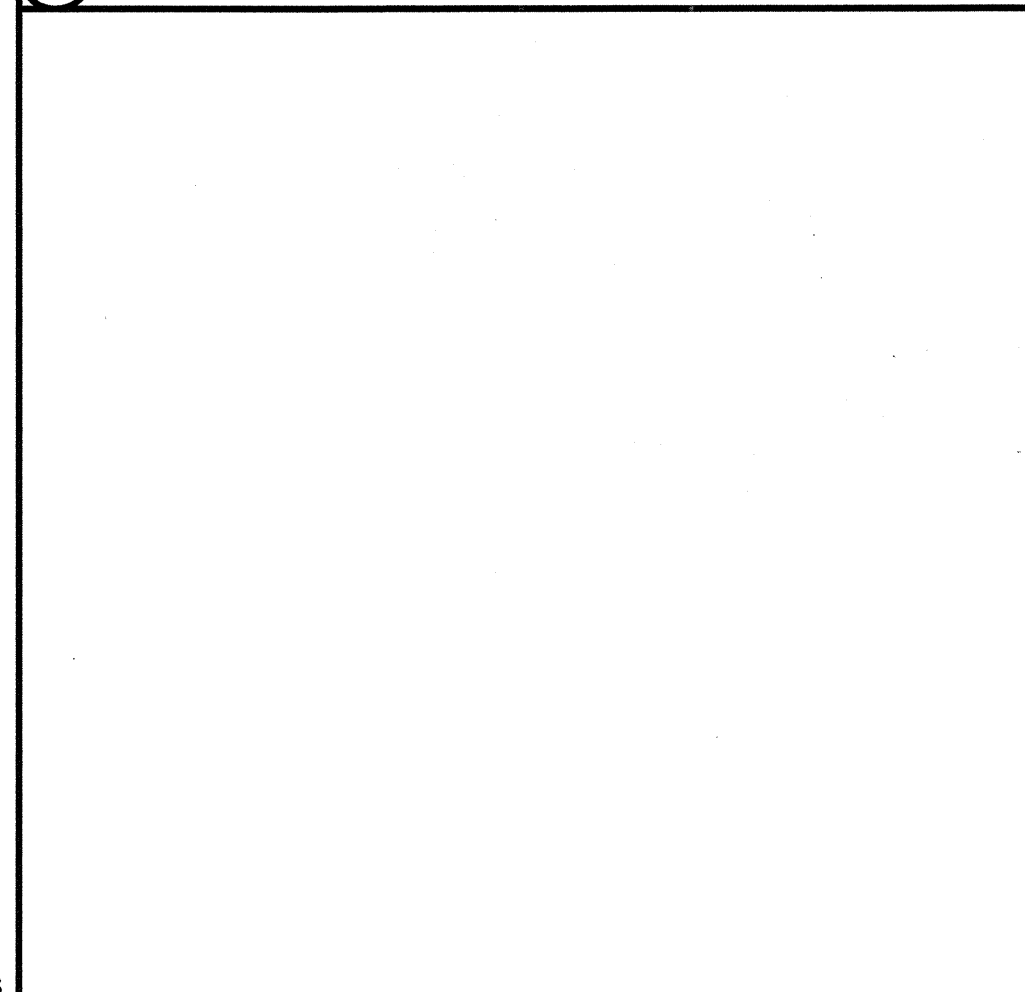
17) TYP CS INSTALLATION FLOOR TO FLOOR 1"



16) SHEAR WALL ELEV. (TYP) 3/8"



17) TYP CS INSTALLATION FLOOR TO FLOOR 1"



17) TYP CS INSTALLATION FLOOR TO FLOOR 1"

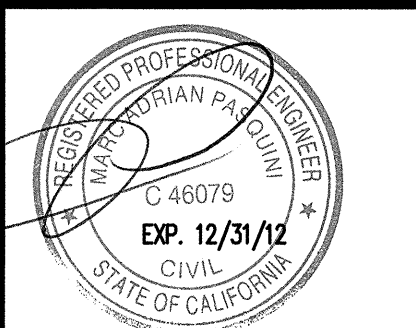
| CEILING JOIST SPAN CHART | | |
|--------------------------|------------|-----------|
| MEMBER SIZE | SPACING | MAX. SPAN |
| 2x4 DF #2 | 12.0" o.c. | 12'-5" |
| | 16.0" o.c. | 11'-3" |
| | 19.2" o.c. | 10'-7" |
| | 24.0" o.c. | 9'-10" |
| 2x6 DF #2 | 12.0" o.c. | 19'-6" |
| | 16.0" o.c. | 17'-8" |
| | 19.2" o.c. | 16'-8" |
| | 24.0" o.c. | 15'-6" |
| 2x8 DF #2 | 12.0" o.c. | 25'-8" |
| | 16.0" o.c. | 23'-4" |
| | 19.2" o.c. | 21'-11" |
| | 24.0" o.c. | 20'-5" |
| 2x10 DF #2 | 12.0" o.c. | 26'-0" |
| | 16.0" o.c. | 24'-0" |

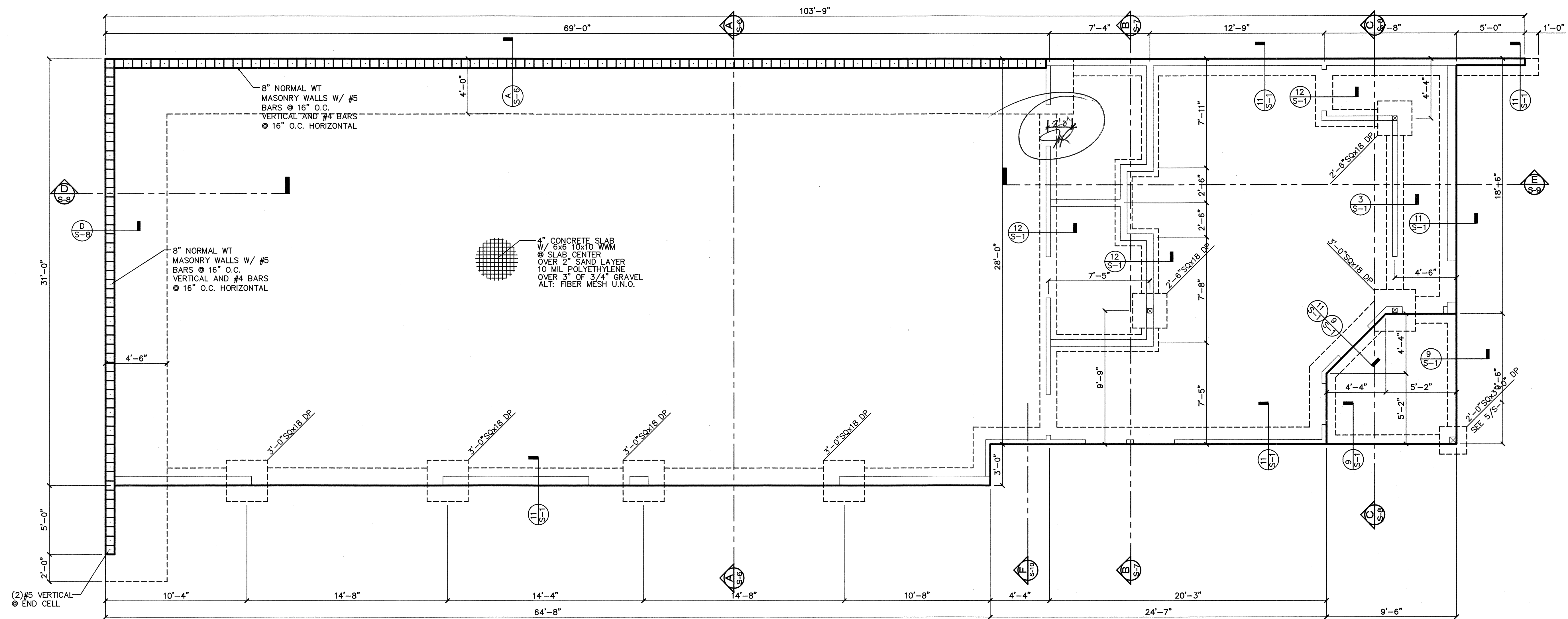
20) CEILING JOIST CHART 1/4"

| NO. | DATE |
|-----|------|
| | |
| | |
| | |

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 5-12-10 |
| JOB NO. | 6345 |
| FILE NO. | 634531 |





FOUNDATION PLAN

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

NOTE:
SEE SHEARWALL FLOOR PLAN FOR HOLD-DOWN
LOCATIONS & SHEARWALL SCHEDULE FOR
A.B. SIZE & SPACING AND NAILING REQUIREMENTS

FOUNDATION PAD & EARTHWORK TO BE IN
CONFORMANCE WITH THE ORIGINAL SOILS REPORT
FOR THIS TRACT. NOTIFY ENGINEER PRIOR TO
CONSTRUCTION OF ANY KNOWN DISCREPANCIES

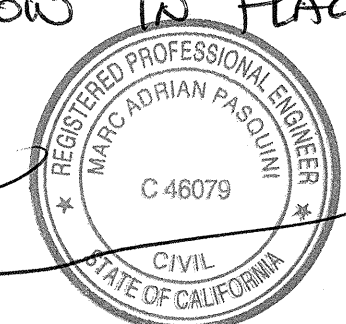
FRAMING CONTRACTOR TO VERIFY PLACEMENT
OF ALL ANCHOR BOLTS & HOLD DOWNS PRIOR
TO CONCRETE PLACEMENT.

ALL HOLD DOWNS MUST BE TIED IN PLACE PRIOR
TO FOUNDATION INSPECTION

ALL REINFORCING, BOLTS AND HARDWARE
SHALL BE TEMPLEATED IN PLACE PRIOR
TO THE FOUNDATION INSPECTION.

USE 3000psi CONCRETE FOR FOUNDATION FOOTINGS
NO SPECIAL INSPECTION REQUIRED WHEN 2500psi
IS USED IN CALCULATIONS

NOTE:
USE TYPE IV CONCRETE (SULPHATE)
OR PROVIDE SOILS TESTING
THAT INDICATES LOW IN PLACE
SOIL SULPHATES



Attention:
Grading Certificate and
Final Soils Report is
Required Prior to
Foundation Inspection

Attention:
Structural
Tests and Inspections
Required
(See STI Schedule Form)

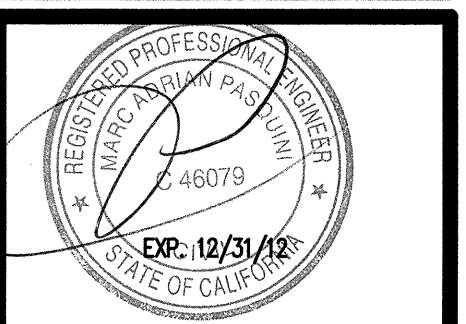
DIANE MIRONOWSKI
OFFICE / WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

PASQUINI
ENGINEERING
INCORPORATED
903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (861) 328-9600
Fax: (861) 328-9090

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

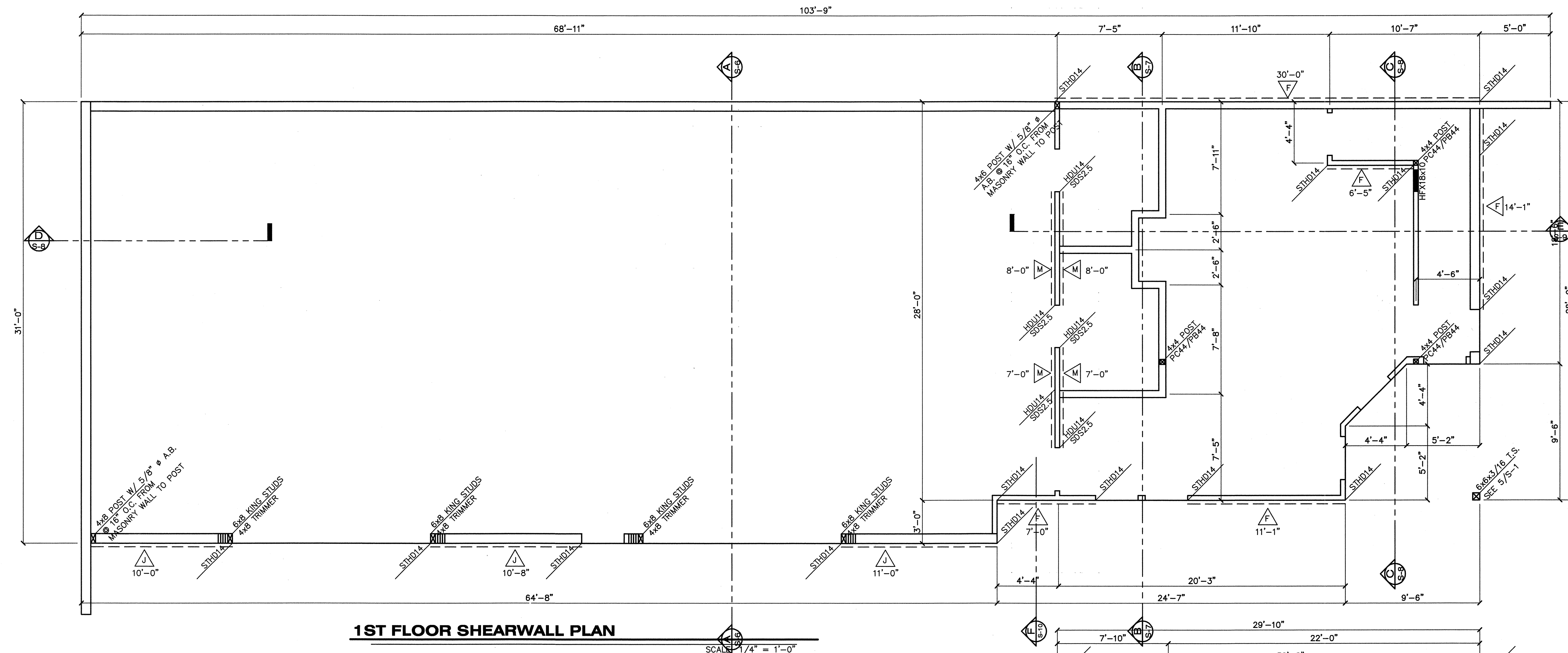
THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



SHEET
S-3
OF SHEET

PRINTED: 5/24/2012



1ST FLOOR SHEARWALL PLAN

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

*QA/QC=QUALITY CONTROL
INSPECTION REQ'D IF QA/QC NOTED

THE CONTRACTOR SHALL RETAIN THE ENGINEER OF RECORD TO REVIEW & PROVIDE QUALITY CONTROL FOR ALL SHEAR TRANSFER SYSTEMS REQUIRING NAILING AT 4" O.C. OR LESS I.E. SHEARWALL "H" THIS PLAN. A REPORT SHALL BE SUBMITTED TO THE BUILDING OFFICIAL FOR REVIEW & APPROVAL PRIOR TO FRAMING INSPECTION APPROVAL.

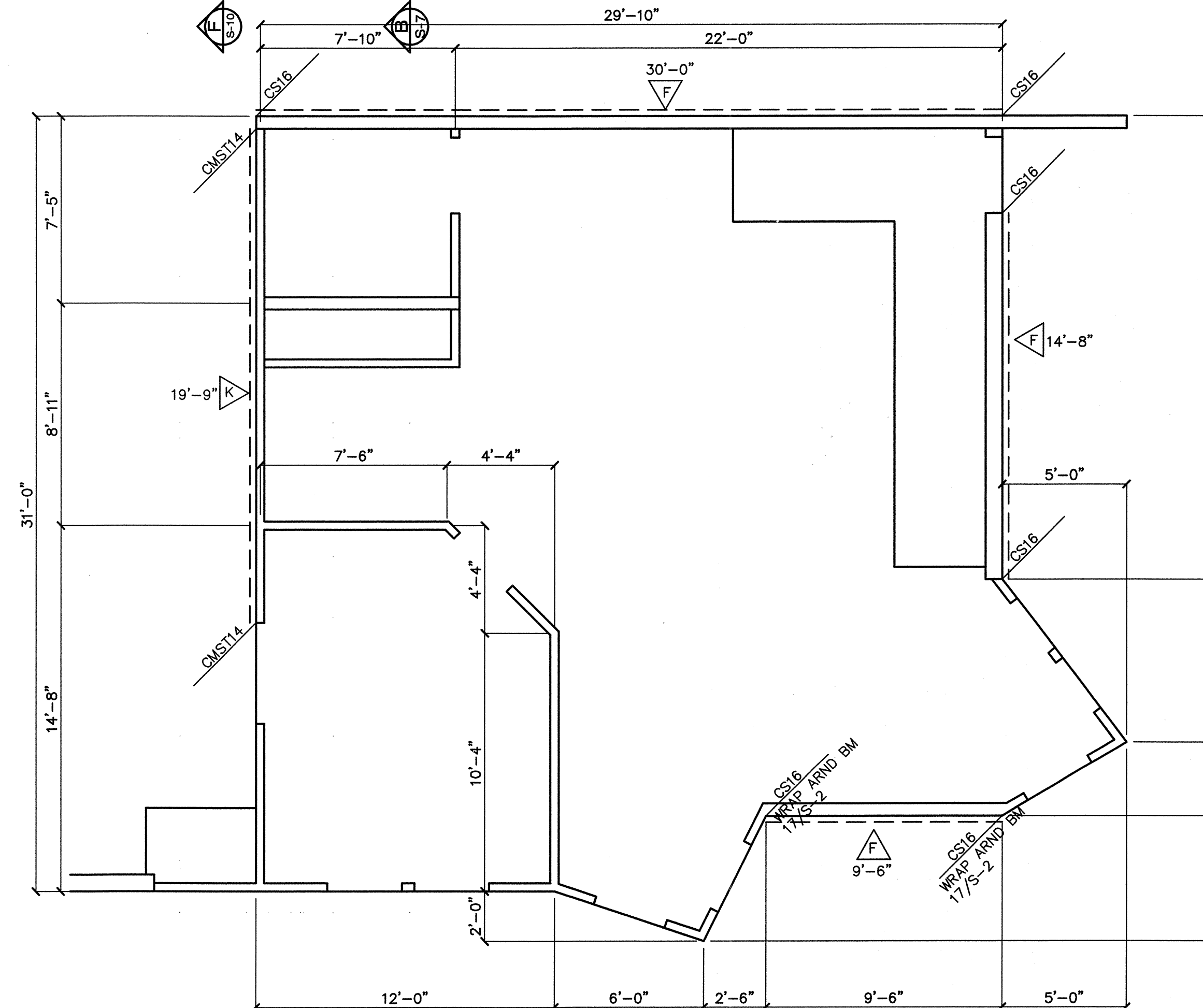
IF QUALITY CONTROL IS NOT PROVIDED DURING THE COURSE OF CONSTRUCTION, AS REQUIRED IN THESE PLANS, THERE WILL BE A \$5000 BASE FEE PLUS TIME & MATERIALS AS REQUIRED FOR TESTING & INSPECTIONS.

NOTE:
TOP PLATE SPLICE:
4'-0" MIN. USE 16-16d COMM. NAILS
EACH SIDE OF BREAK OF UPPER PLATE
SEE DETAIL 8 SHEET D-3

FOR MISSING/MISPLACED STD14 OR PHD5:
USE SIMPSON PHD5 AND RFB#5 x 15 W/
12" EMBEDMENT. USE SIMPSON SET EPOXY.
SPECIAL INSPECTION REQUIRED.

NOTE:
THE ELECTRICAL PANEL MAY NOT BE
LOCATED WITHIN A SHEARWALL

CONTRACTOR TO VERIFY ALL SHEARWALL
LENGTHS PRIOR TO CONSTRUCTION & VERIFY
ALL DOOR & WINDOW LOCATIONS
ACCORDINGLY. NOTIFY ENGINEER OF RECORD
OF ANY DISCREPANCIES PRIOR TO
CONSTRUCTION



2ND FLOOR PLAN

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

**PASQUINI
ENGINEERING**
INCORPORATED

903 H Street Suite 300
Bakersfield, CA 93304

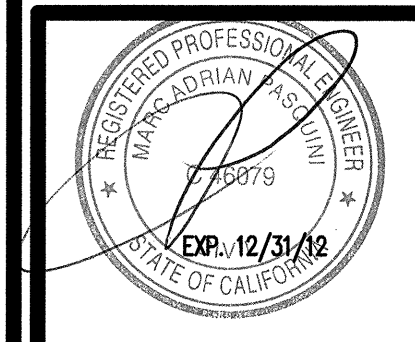
Telephone: (661) 328-9600
Fax: (661) 328-9050

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

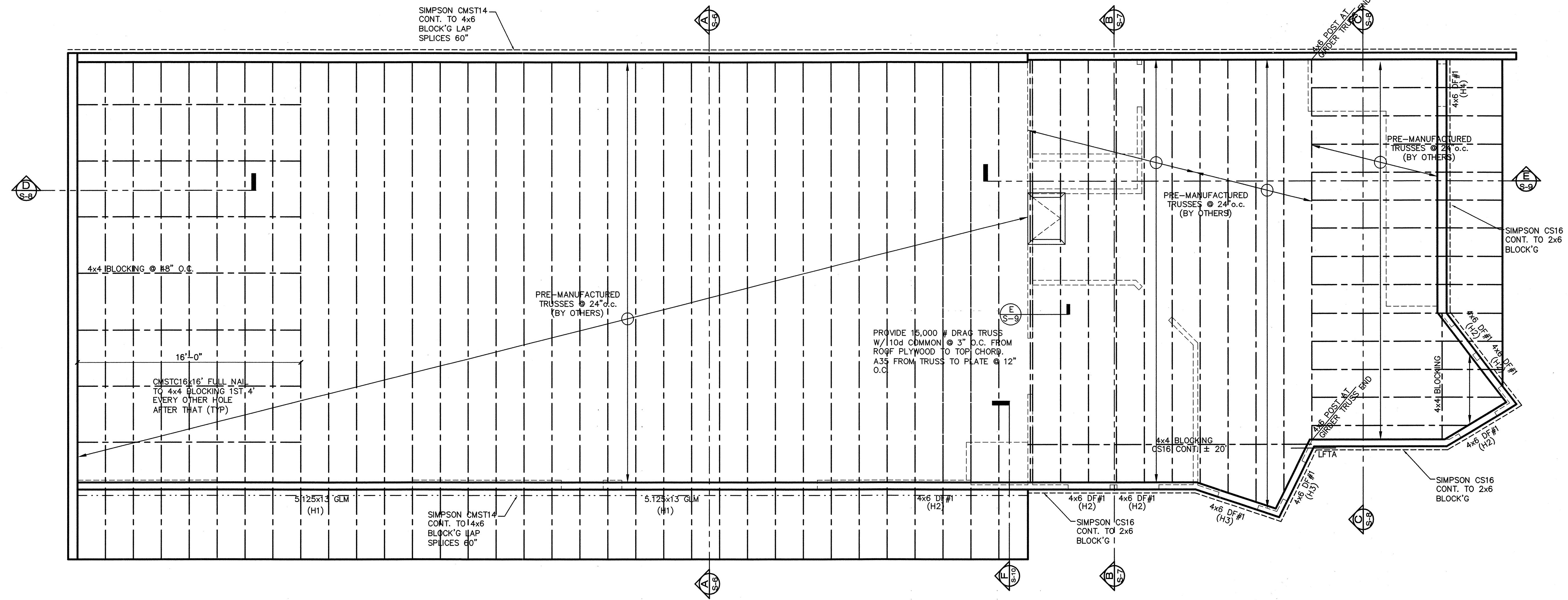
DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



SHEET
S-4
OF SHEET



ROOF FRAMING PLAN

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

ROOF NOTES (CUT & STACK ROOF):

PROVIDE 2x6 DF#2 RAFTERS @24"o.c. MAX. SPAN 9'-0" (U.N.O.)
 2x8 DF#2 RAFTERS @16"o.c. MAX. SPAN 11'-0" (U.N.O.)
 2x8 DF#2 RAFTERS @24"o.c. MAX. SPAN 11'-6" (U.N.O.)
 2x8 DF#2 RAFTERS @16"o.c. MAX. SPAN 14'-0" (U.N.O.)
 2x10 DF#2 RAFTERS @24"o.c. MAX. SPAN 14'-0" (U.N.O.)
 2x10 DF#2 RAFTERS @16"o.c. MAX. SPAN 17'-0" (U.N.O.)
 2x12 DF#2 RAFTERS @24"o.c. MAX. SPAN 16'-0" (U.N.O.)
 2x12 DF#2 RAFTERS @16"o.c. MAX. SPAN 19'-6" (U.N.O.)
 PROVIDE 2x10 HIP, VALLEY RAFTERS & RIDGE BDS
 BRACE TO ALL HIP, RIDGE & VALLEY CONNECTIONS
 DOUBLE C.J. UNDER ALL ATTIC MOUNTED EQUIP.
 ALL EXTERIOR HEADERS ARE 4x12 DF#2 (U.N.O.)
 PROVIDE 2x8 PURLINS BRACED @ 48"o.c. W/ 2-2x6 BRACES LAID
 45° MIN. FROM HORIZONTAL.
 PROVIDE ROOF PITCH PER PLANS

BRACES (—K—) MAX. SPAN

1-2x6 6'-0" MAX
 2-2x6 12'-0" MAX
 3-2x6 18'-0" MAX

CONNECT MULTIPLE MEMBERS W/16d @ 12"o.c. ON EACH SIDE

TOP PLATE SPLICE:

4'-0" MIN. USE 16-16d COMM. NAILS
 EACH SIDE TO BREAK OF UPPER PLATE
 SEE DETAIL 8/D-3

ALL BEAMS TO HAVE MULTIPLE STUD POSTS
 TO MATCH BEAM WITH (EX.-4X BEAM = 2-2X POSTS MIN.)
 U.N.O.

EXTEND ALL SHEARWALLS TO UPPER
 ROOF DIAPHRAGM PER 6/S-2
 (TYP. U.N.O.)

GLMS TO BE 24FV4 W/ CAMBER
 RADIUS OF 1600' (TYP. U.N.O.)

NOTE:
 SUBMIT TRUSS MFG'S ENGINEERING &
 DRAWINGS TO PASQUINI ENGINEERING FOR
 REVIEW PRIOR TO TRUSS FABRICATION

TRUSS MFG'S SHALL DESIGN
 ENTIRE ROOF FRAMING SYSTEM
 INCLUDING ROOF TRUSSES,
 GIRDER TRUSSES, & DRAG TRUSSES,
 TRUSS CONNECTIONS & CALIFORNIA
 FRAMING DETAILS PER CODE
 REQUIREMENT

PROVIDE 4x6 POSTS UNDER ALL GIRDER
 TRUSS SUPPORTS U.N.O.

FLOOR JOISTS

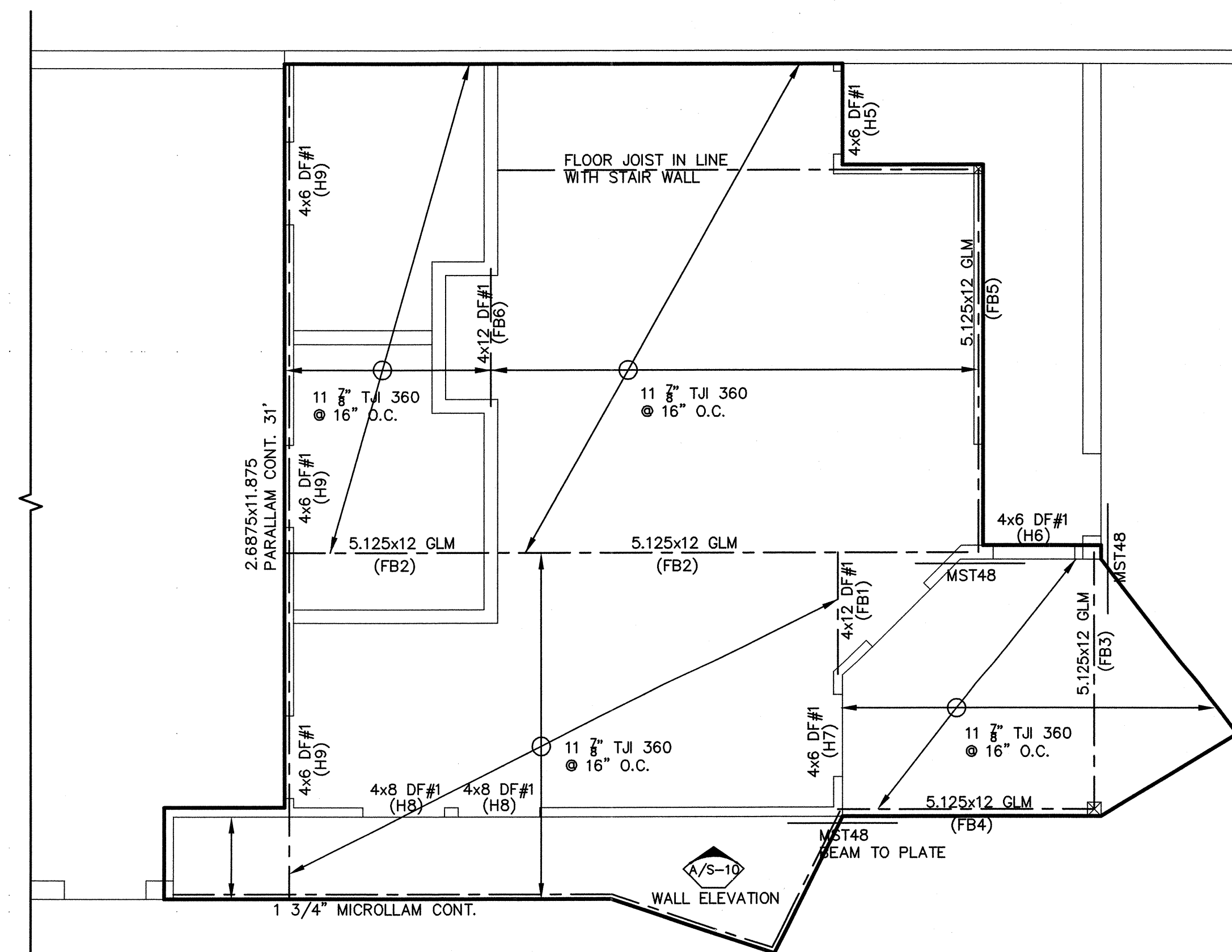
NOTCHES ON THE ENDS OF JOISTS SHALL NOT EXCEED ONE FOURTH THE JOIST DEPTH.
 HOLES BORED IN JOISTS SHALL NOT BE WITHIN 2" OF THE TOP OR BOTTOM OF THE
 JOIST, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE THIRD
 THE DEPTH OF THE JOIST. NOTCHES IN THE TOP OR BOTTOM OF JOISTS SHALL
 NOT EXCEED ONE SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE
 MIDDLE THIRD OF THE SPAN.

WALL FRAMING

CUTTING & NOTCHING
 IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD MAY
 BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS
 WIDTH. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN
 40 PERCENT OF THE WIDTH OF THE STUD IS PERMITTED IN NONBEARING PARTITIONS
 SUPPORTING NO LOADS OTHER THAN THE WEIGHT OF THE PARTITION.

BORED HOLES
 A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH
 MAY BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60 PERCENT
 OF THE WIDTH OF THE STUD ARE PERMITTED IF DOUBLED, PROVIDED NOT MORE
 THAN TWO SUCH SUCCESSIVE DOUBLED STUDS ARE SO BORED.

IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8" TO THE
 EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION
 OF STUD AS A CUT OR NOTCH.



FLOOR FRAMING PLAN

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

**PASQUINI
ENGINEERING**
INCORPORATED

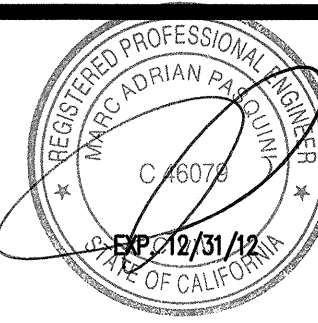
903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (805) 328-9800
Fax: (805) 328-9030

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

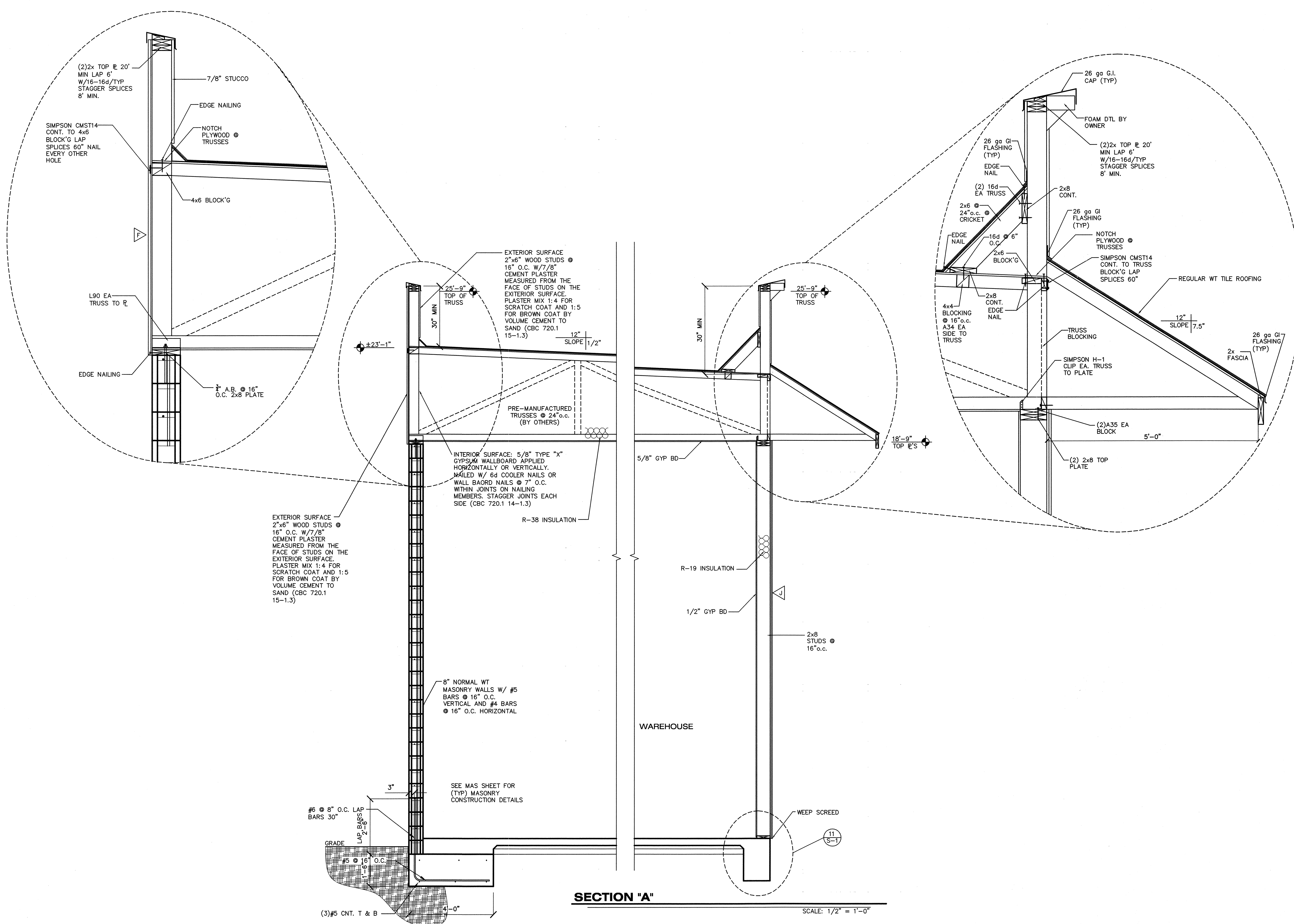
DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



SHEET
S-5
OF SHEET



PASQUINI ENGINEERING
INCORPORATED
903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (805) 328-9600
Fax: (805) 328-9090

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |
| | |

DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



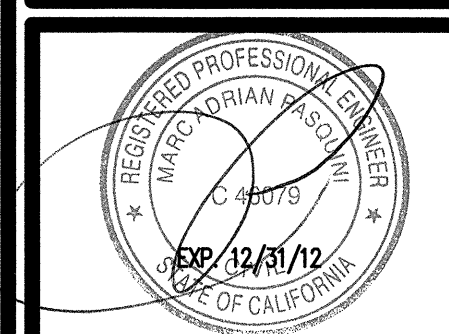
SHEET
S-6
OF SHEET

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

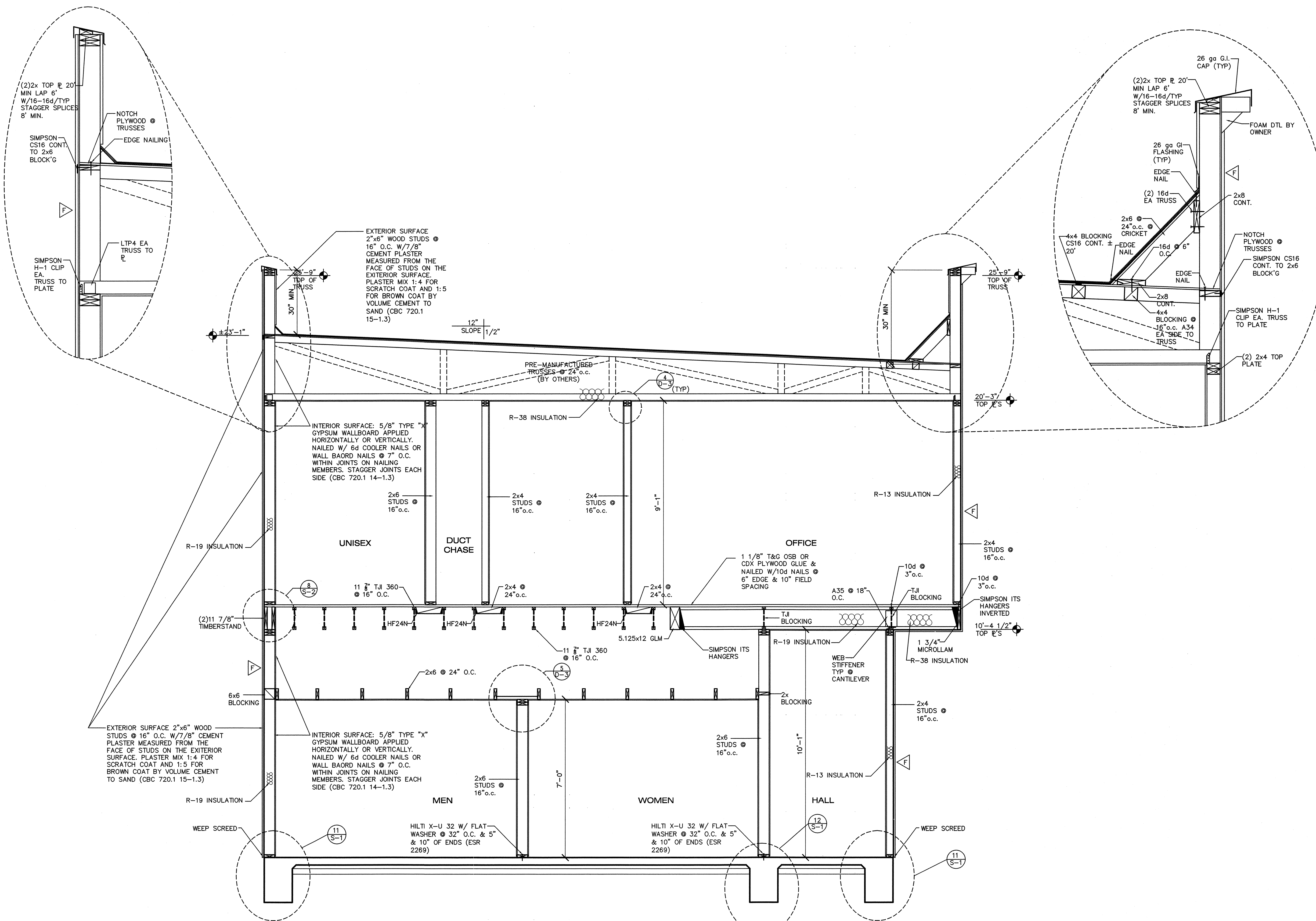
DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

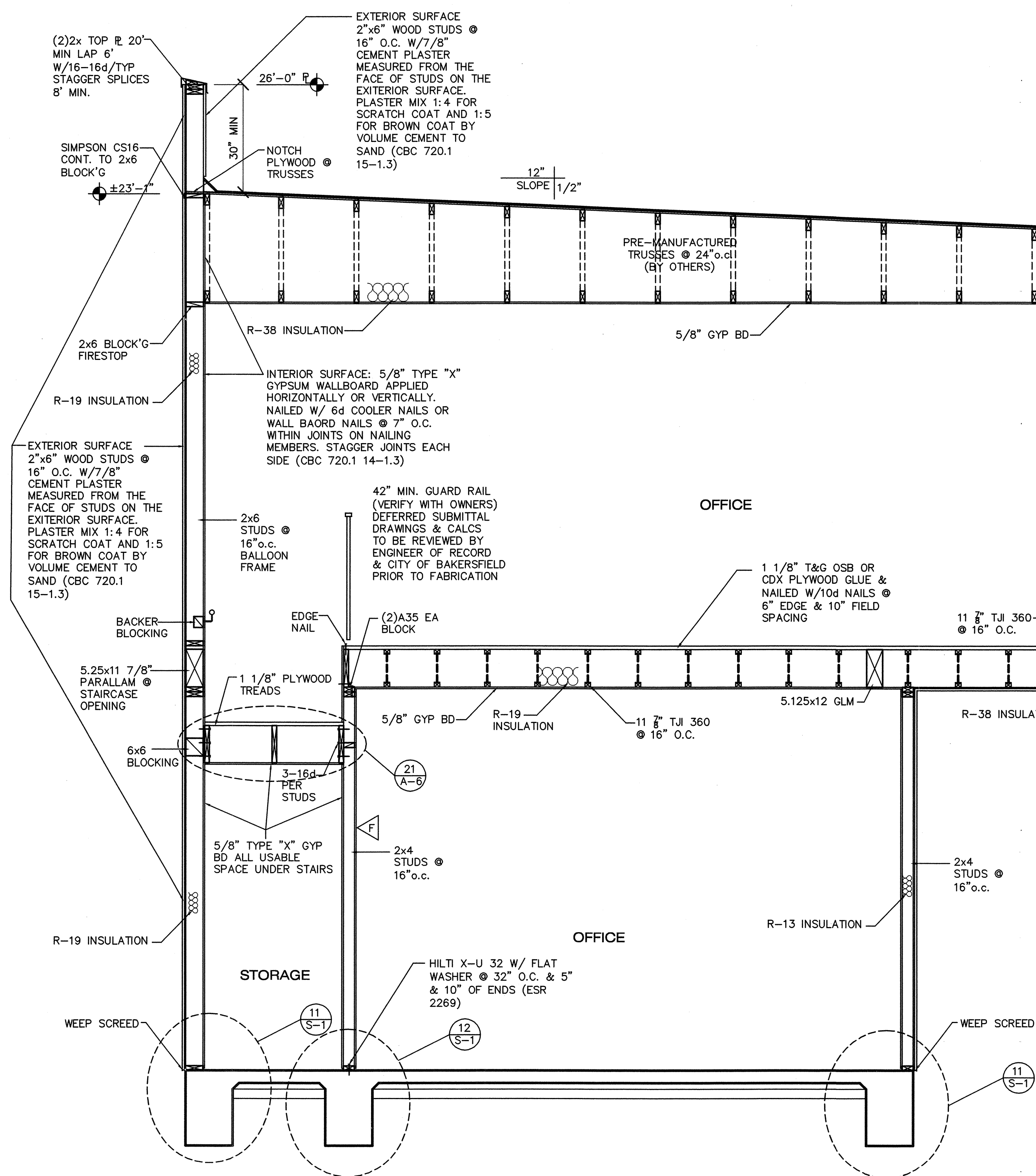
THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



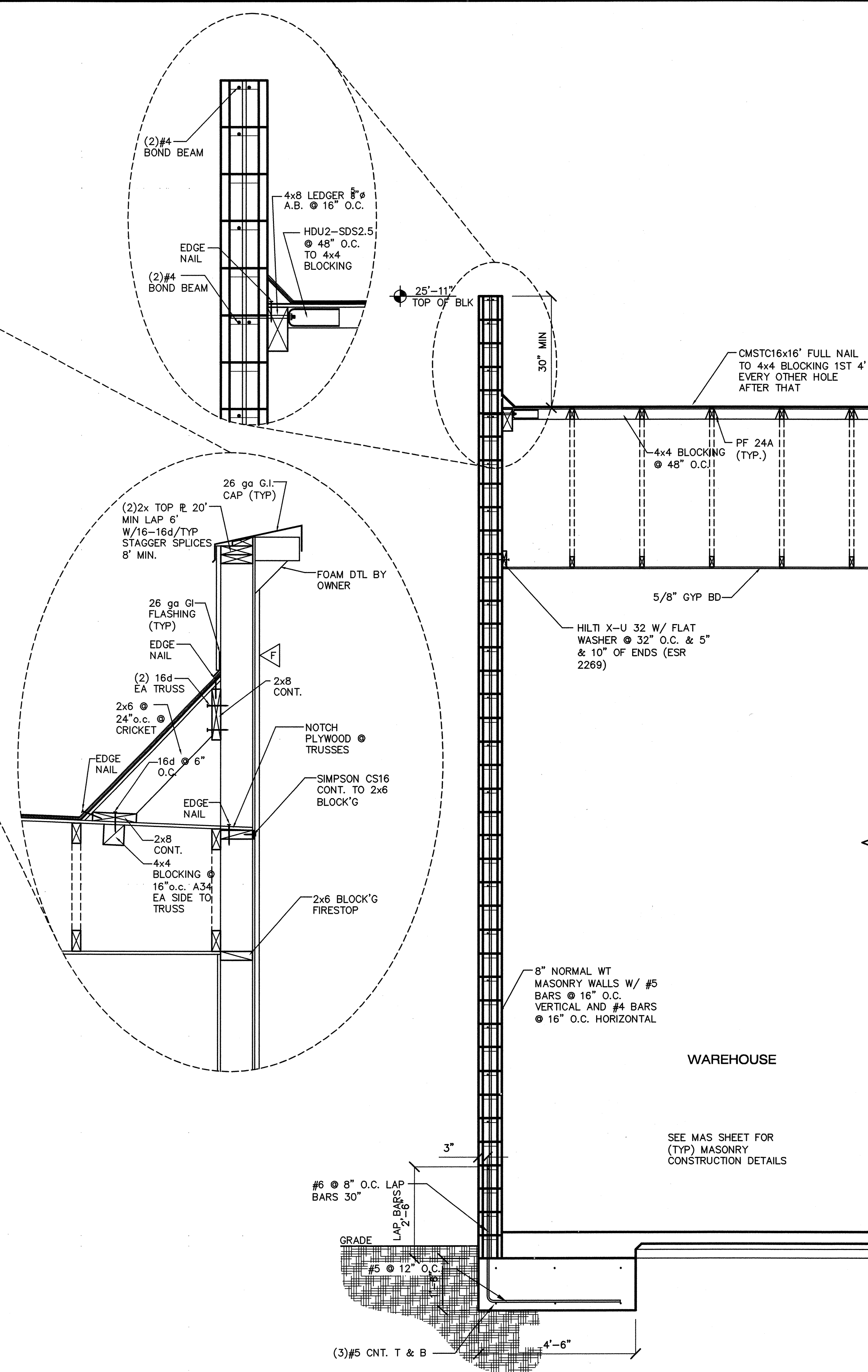
| | |
|-------|------------|
| SHEET | S-7 |
| OF | SHEET |





SECTION "C"

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



SECTION "D"

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



PASQUINI
ENGINEERING
INCORPORATED

903 H Street, Suite 300
Bakersfield, CA 93304

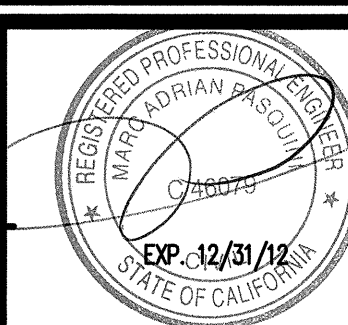
Telephone: (661) 328-9600
Fax: (661) 328-9030

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |
| | |

DIANE MIROWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

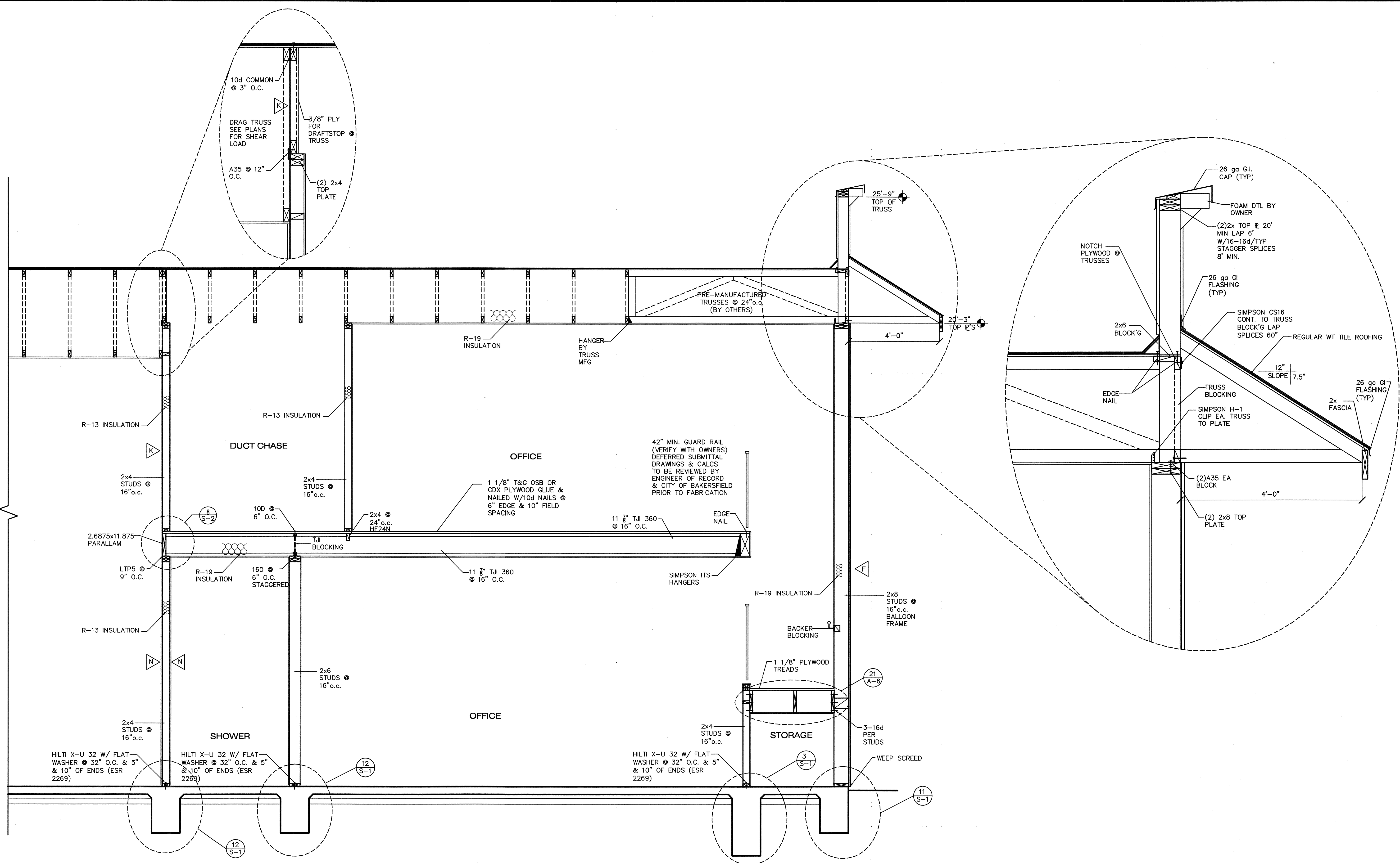
| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



SHEET

S-8

OF **SHEET**



SECTION "E"

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

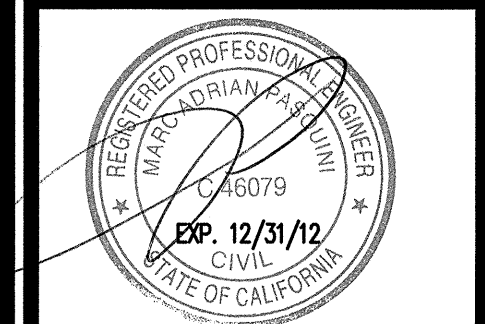
**PASQUINI
ENGINEERING**
INCORPORATED
903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (805) 328-9800
Fax: (805) 328-9000

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A PROFESSIONAL SEAL WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



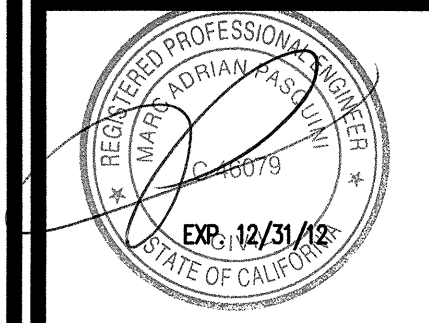
| | |
|-------|------------|
| SHEET | S-9 |
| OF | SHEET |

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |
| | |

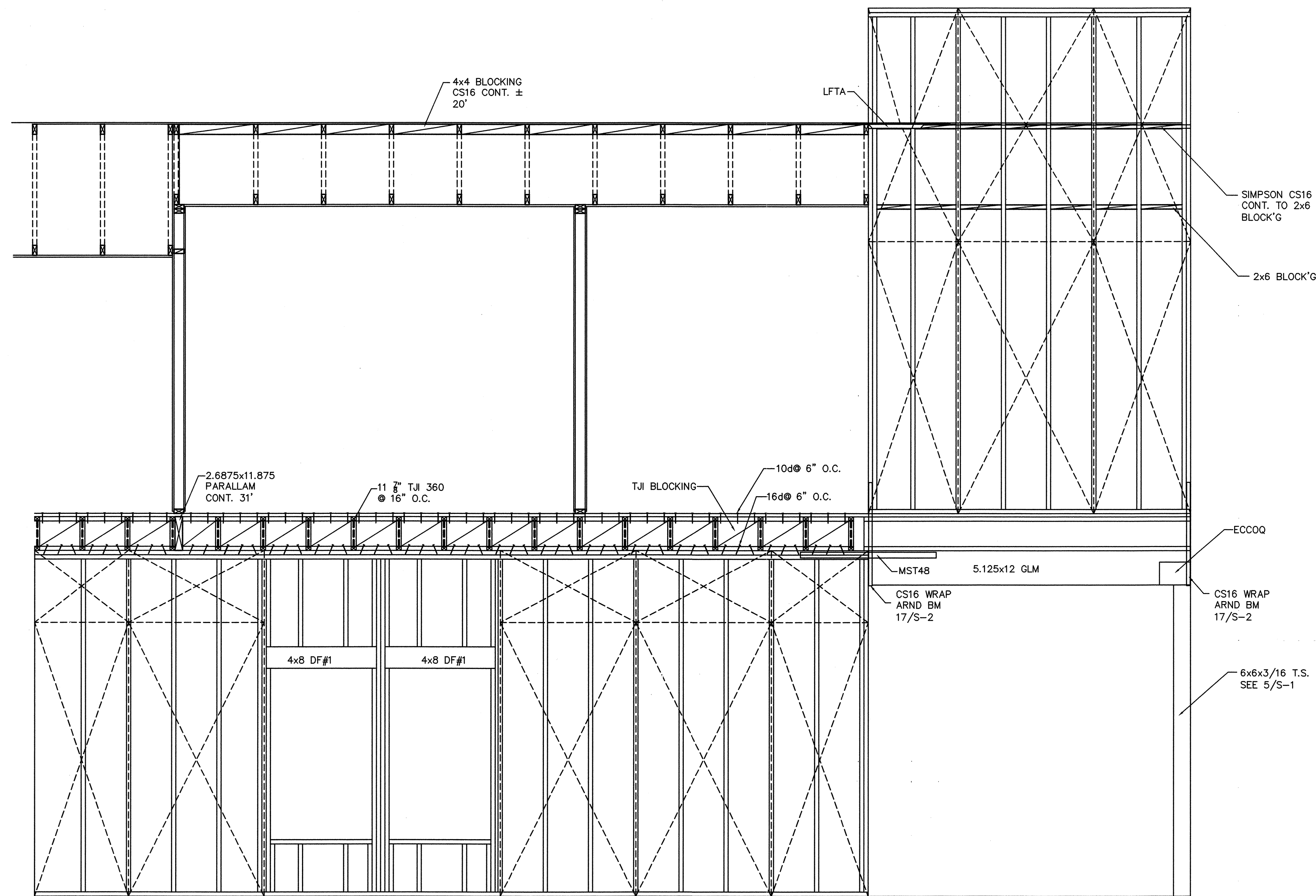
DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |

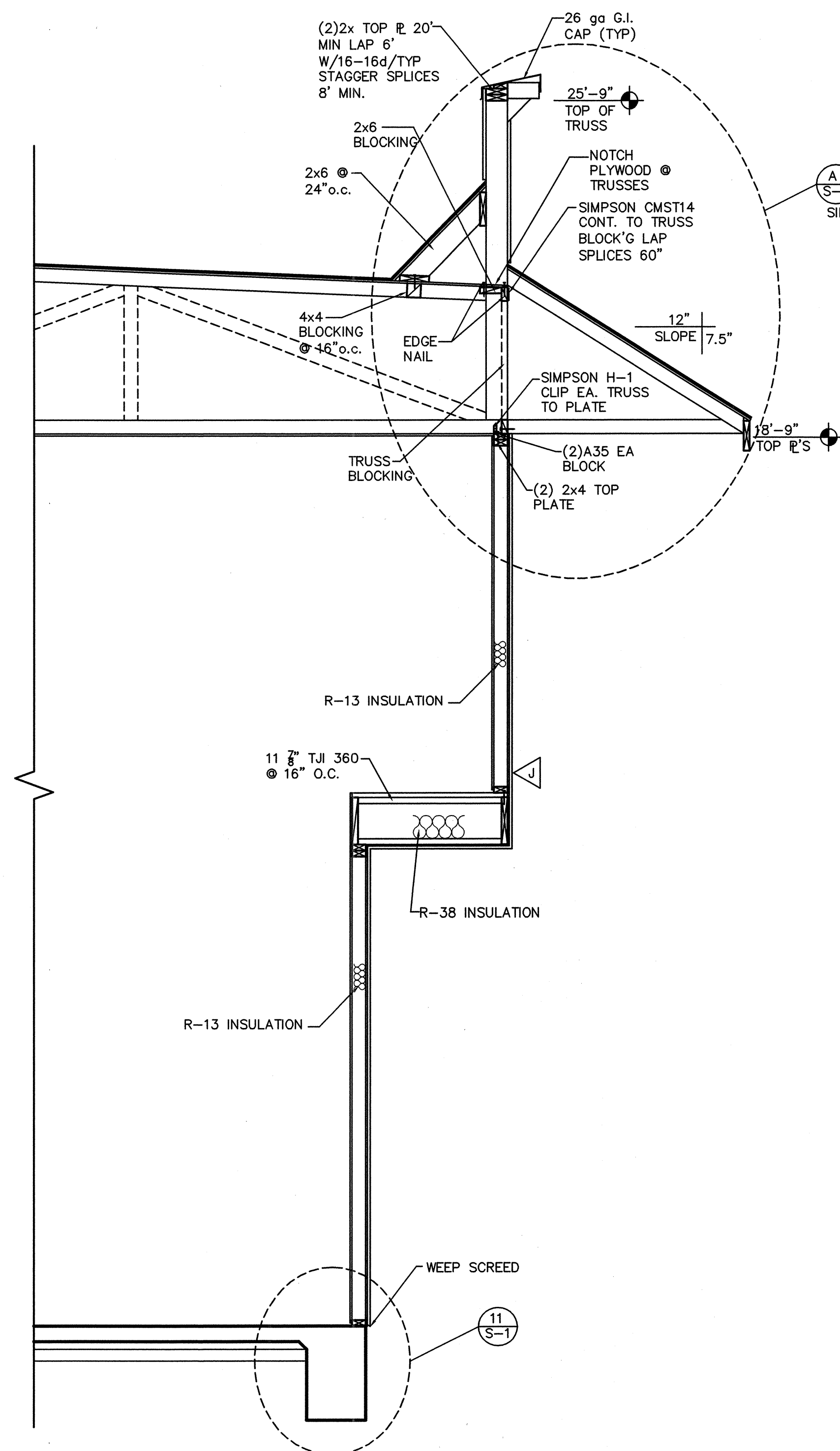


SHEET
S-10
OF SHEET



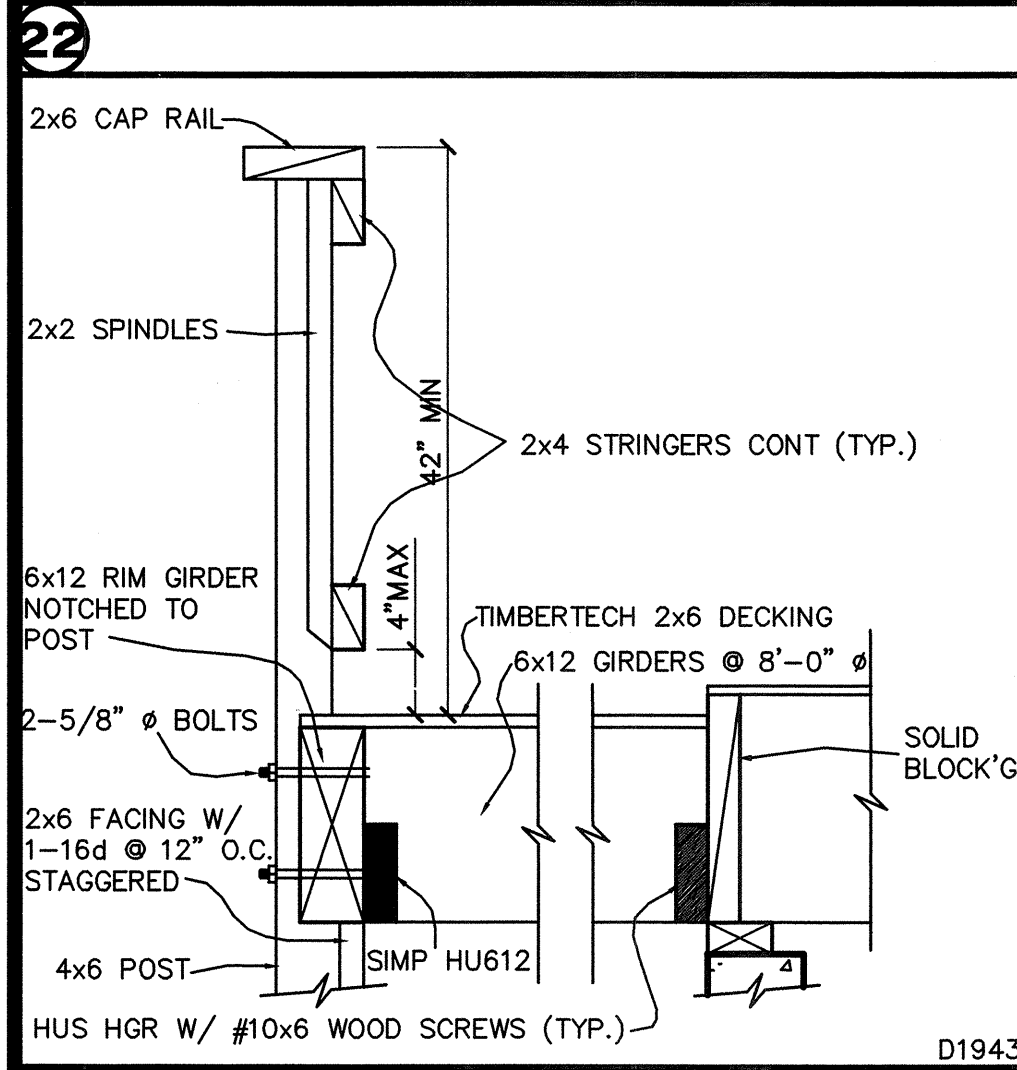
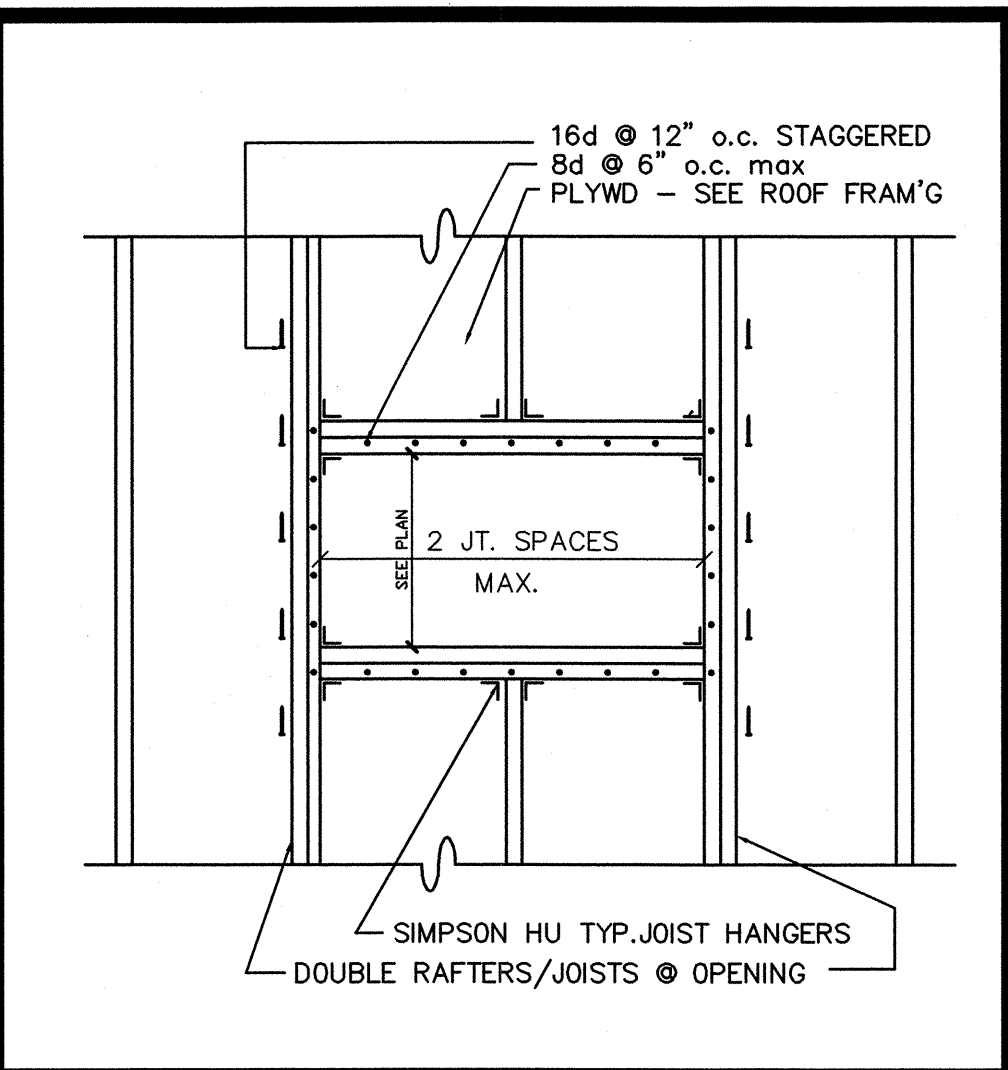
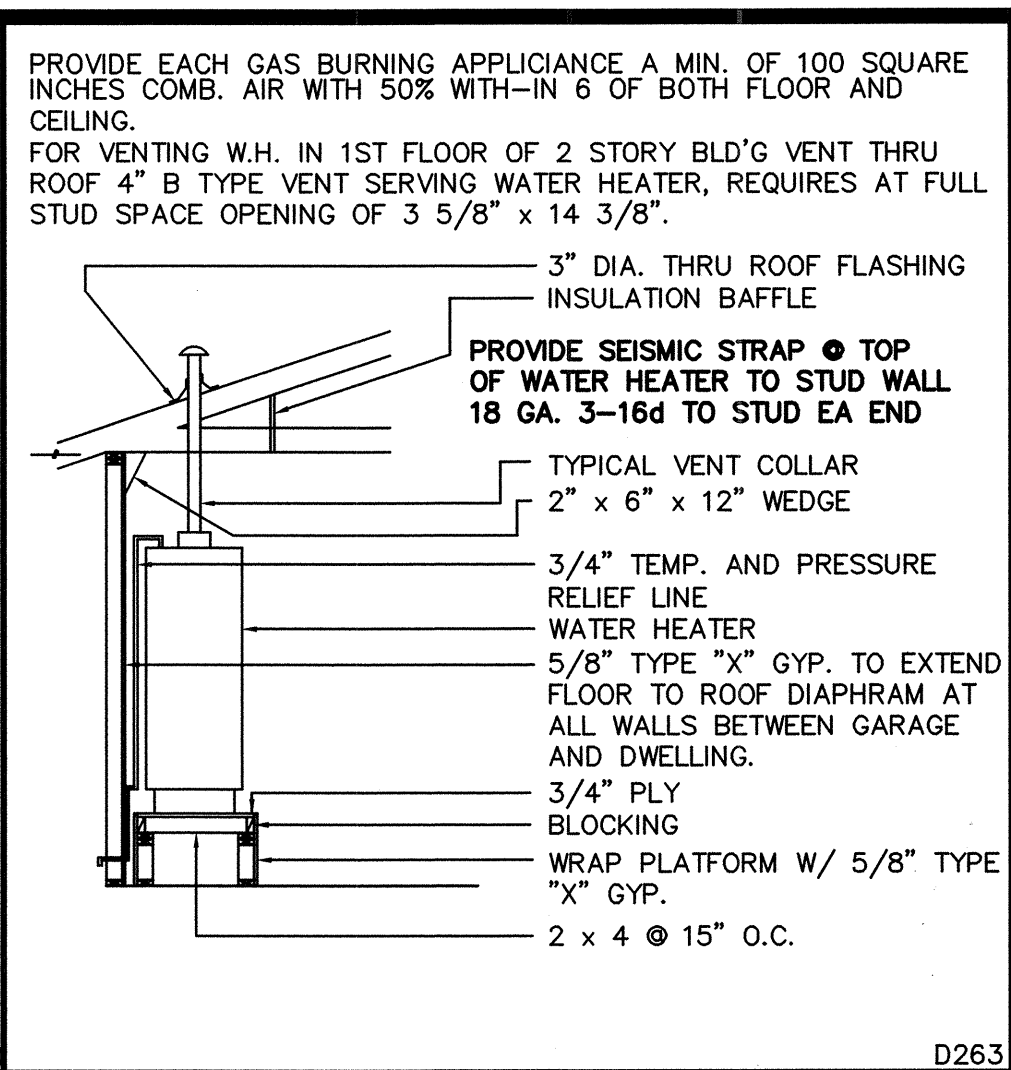
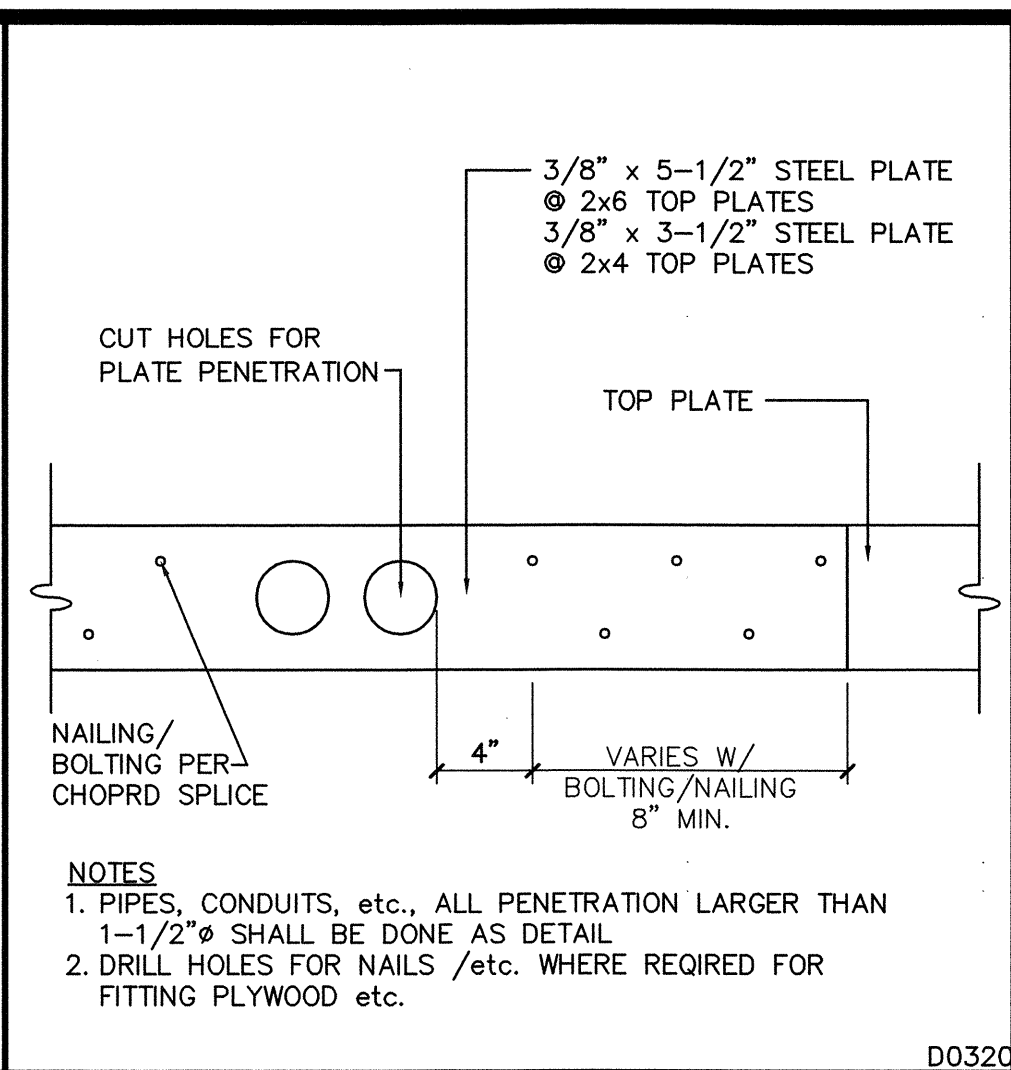
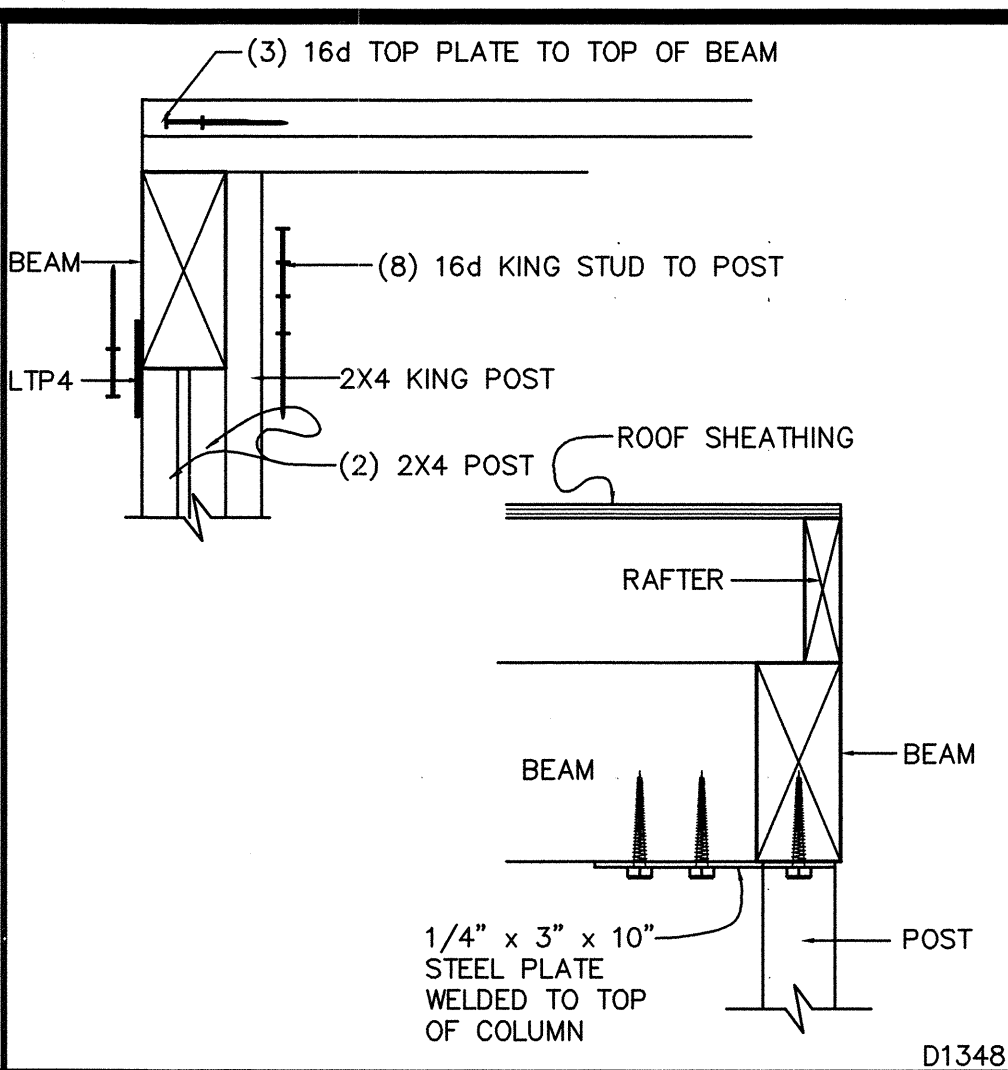
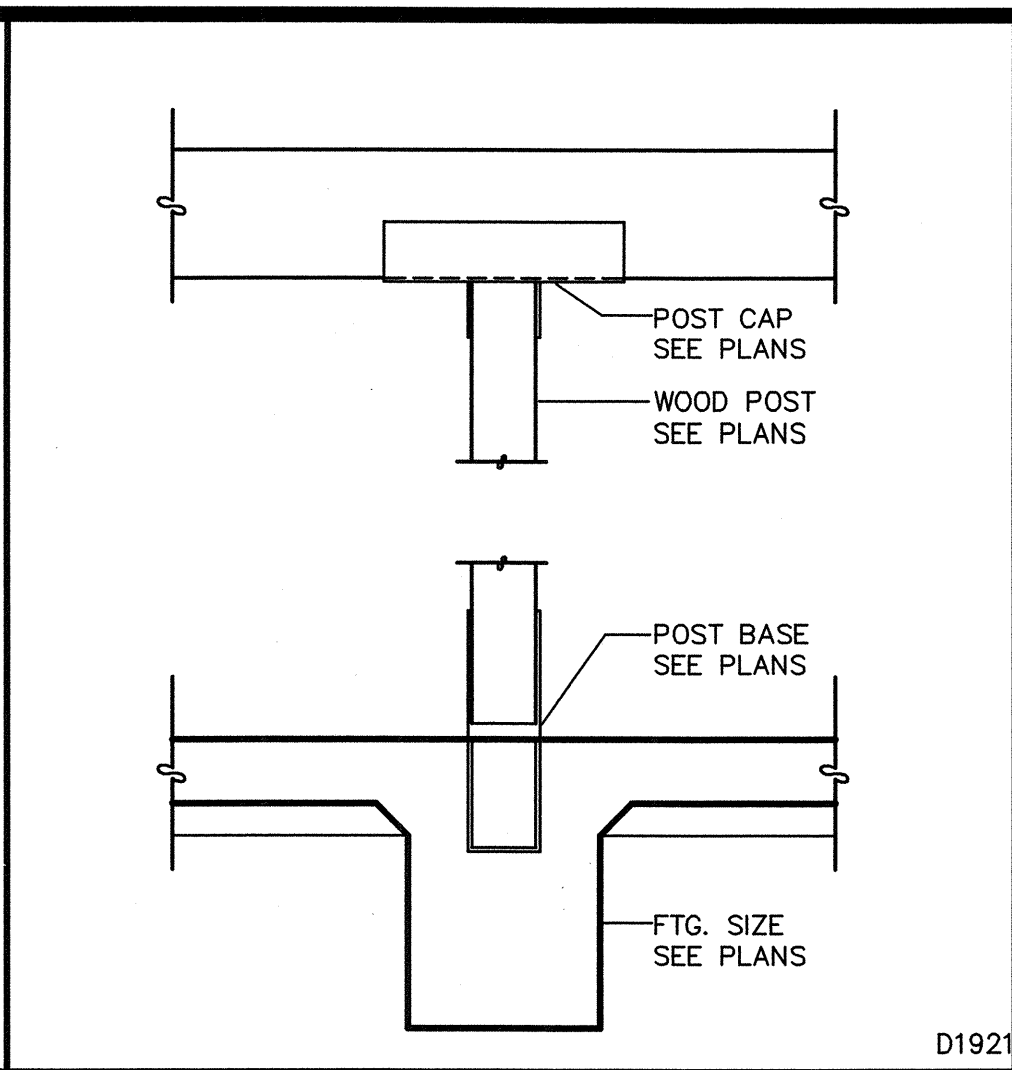
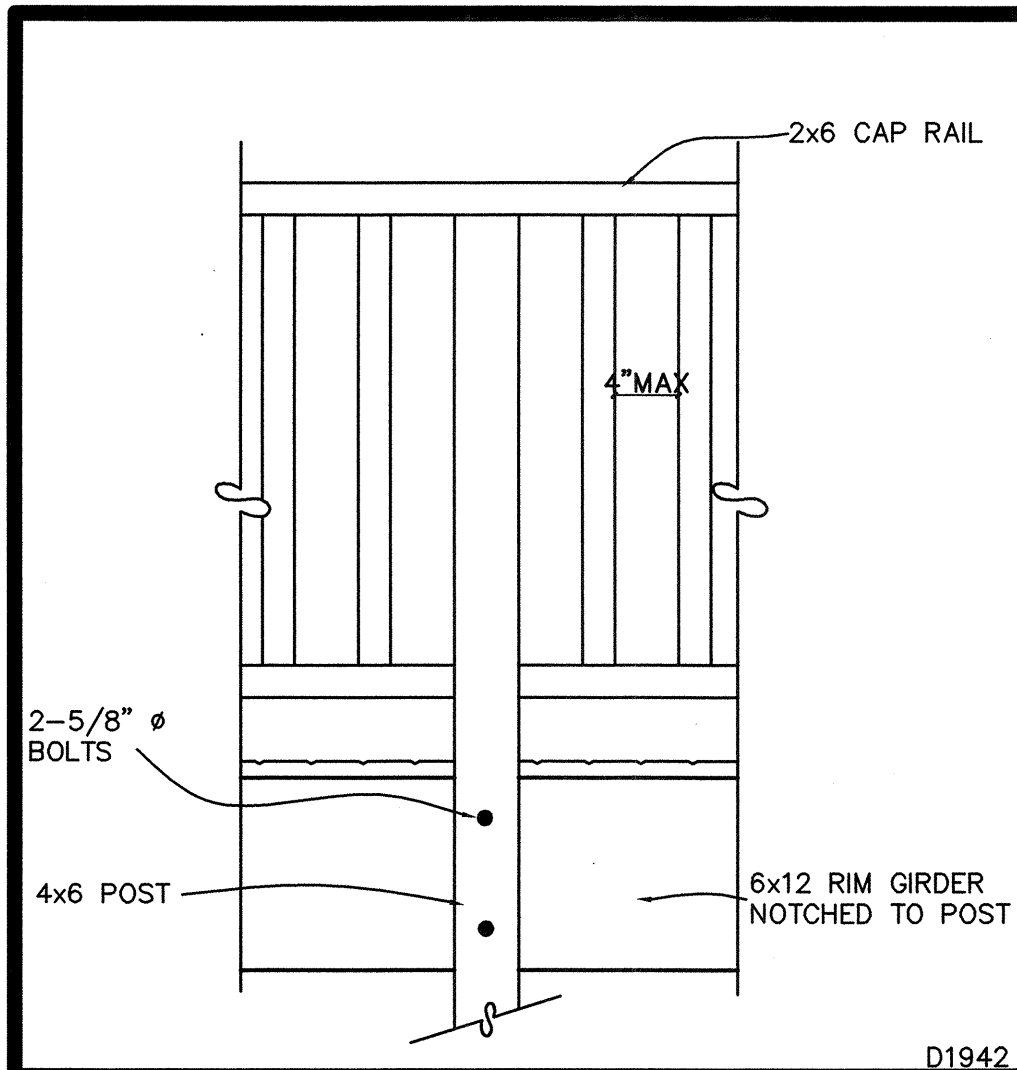
WALL ELEVATION "A"

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



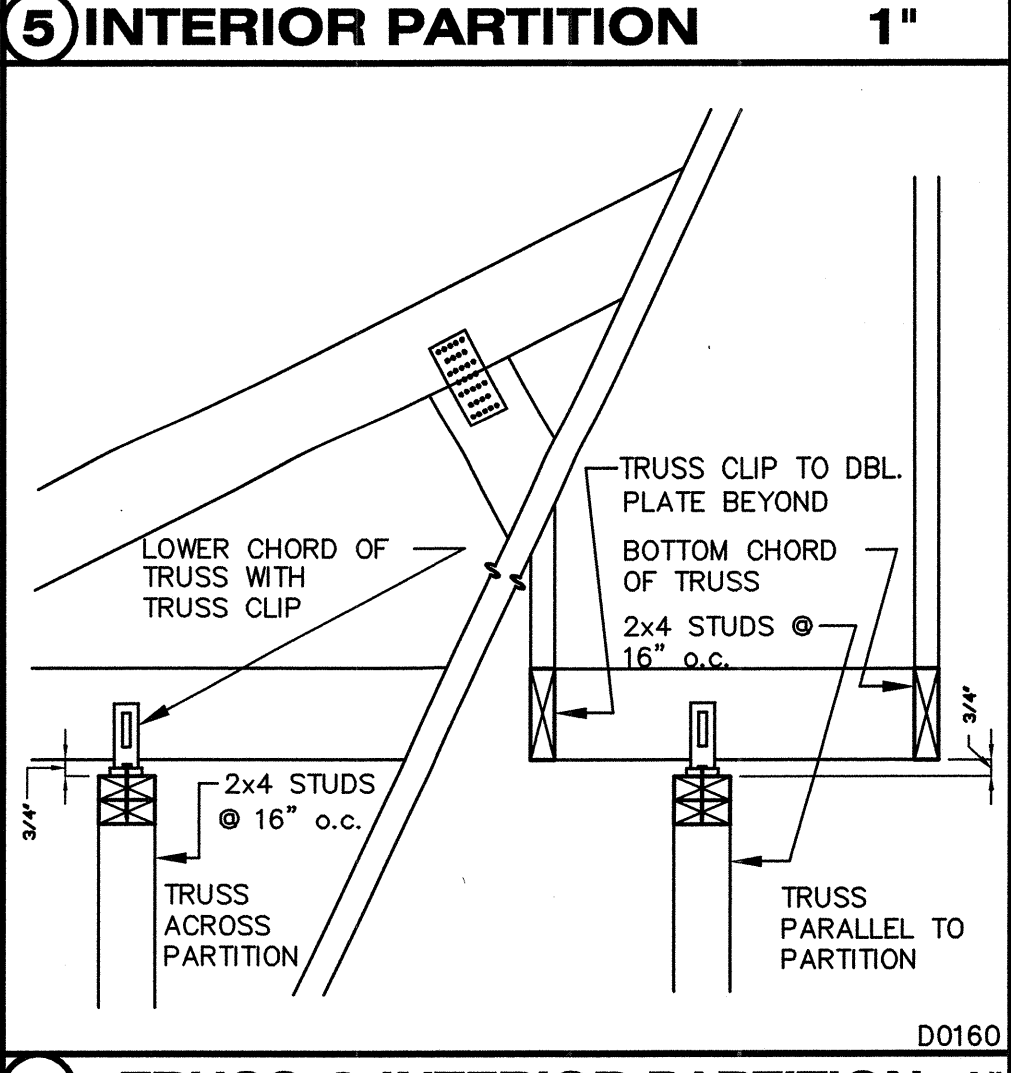
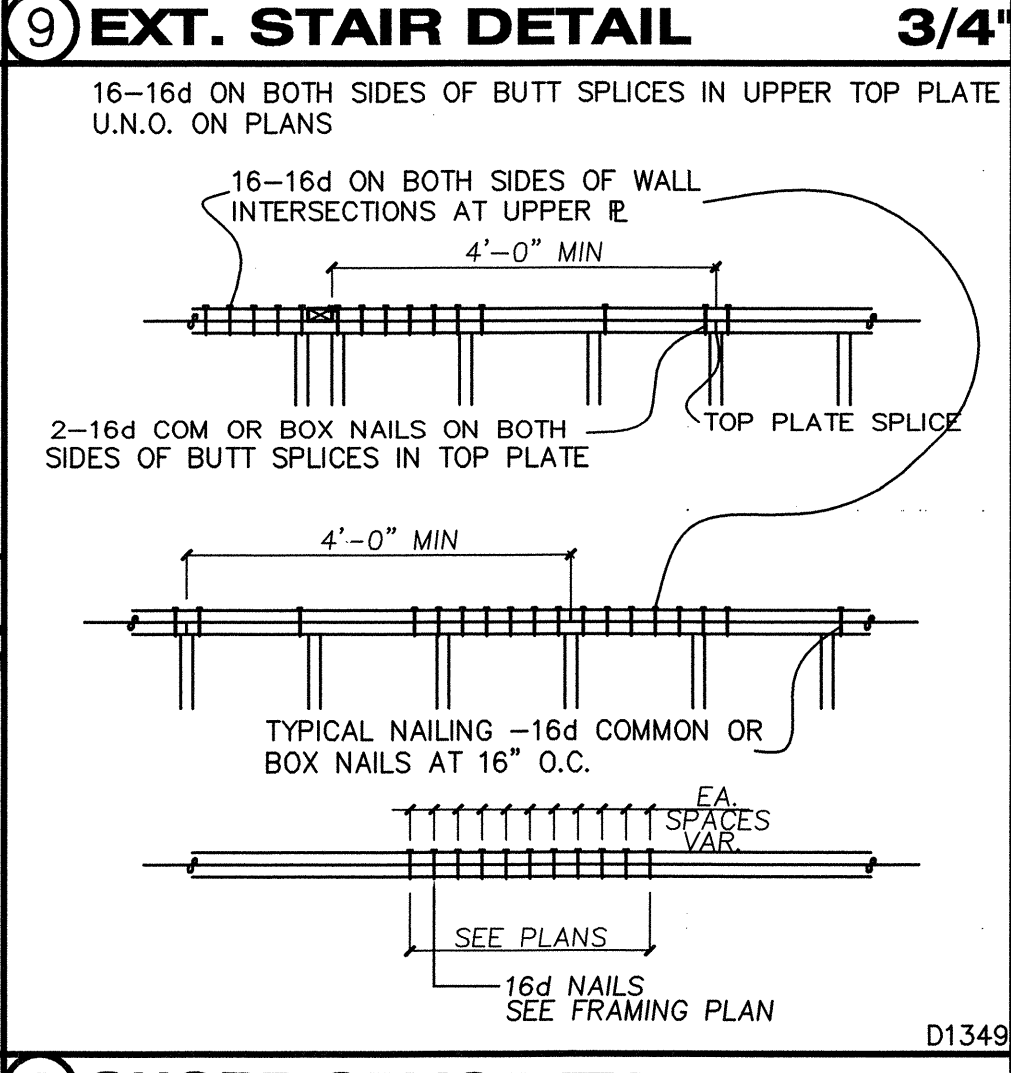
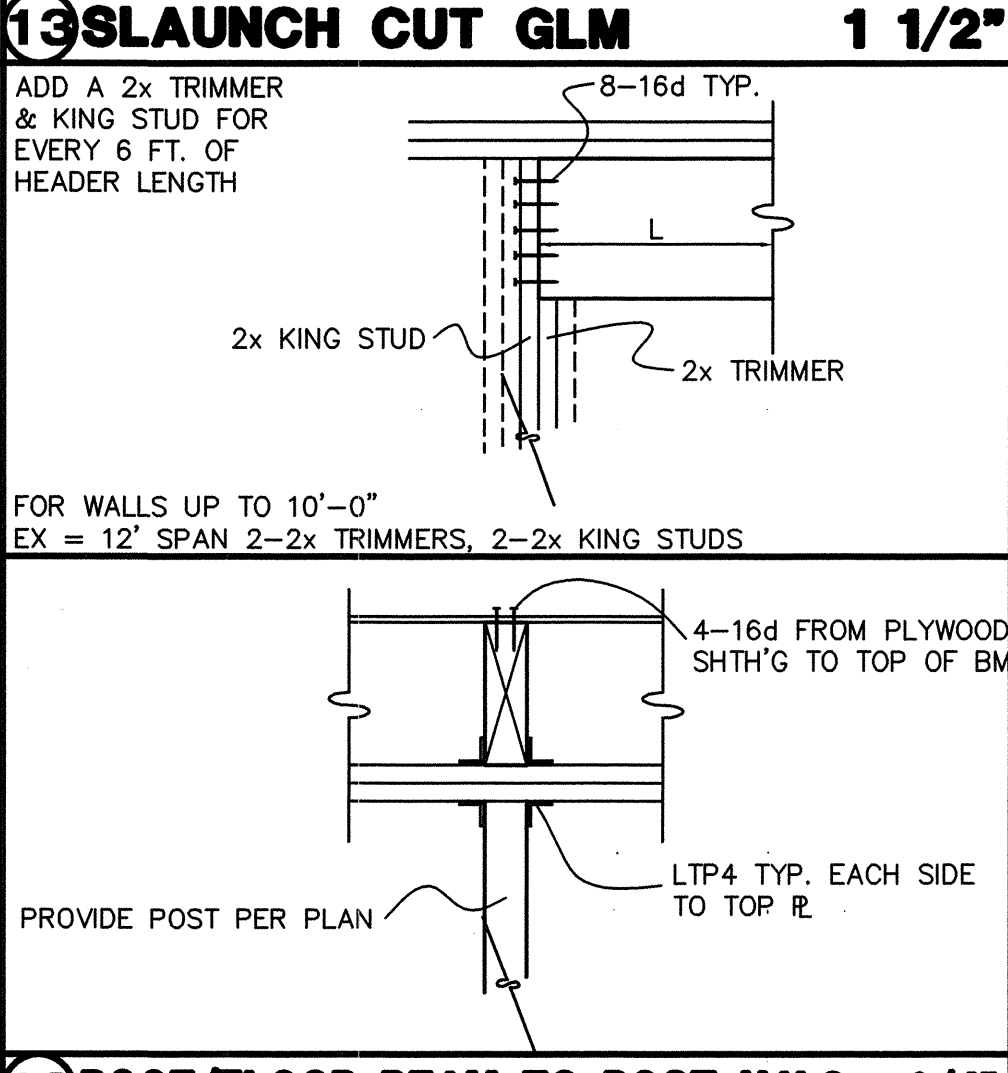
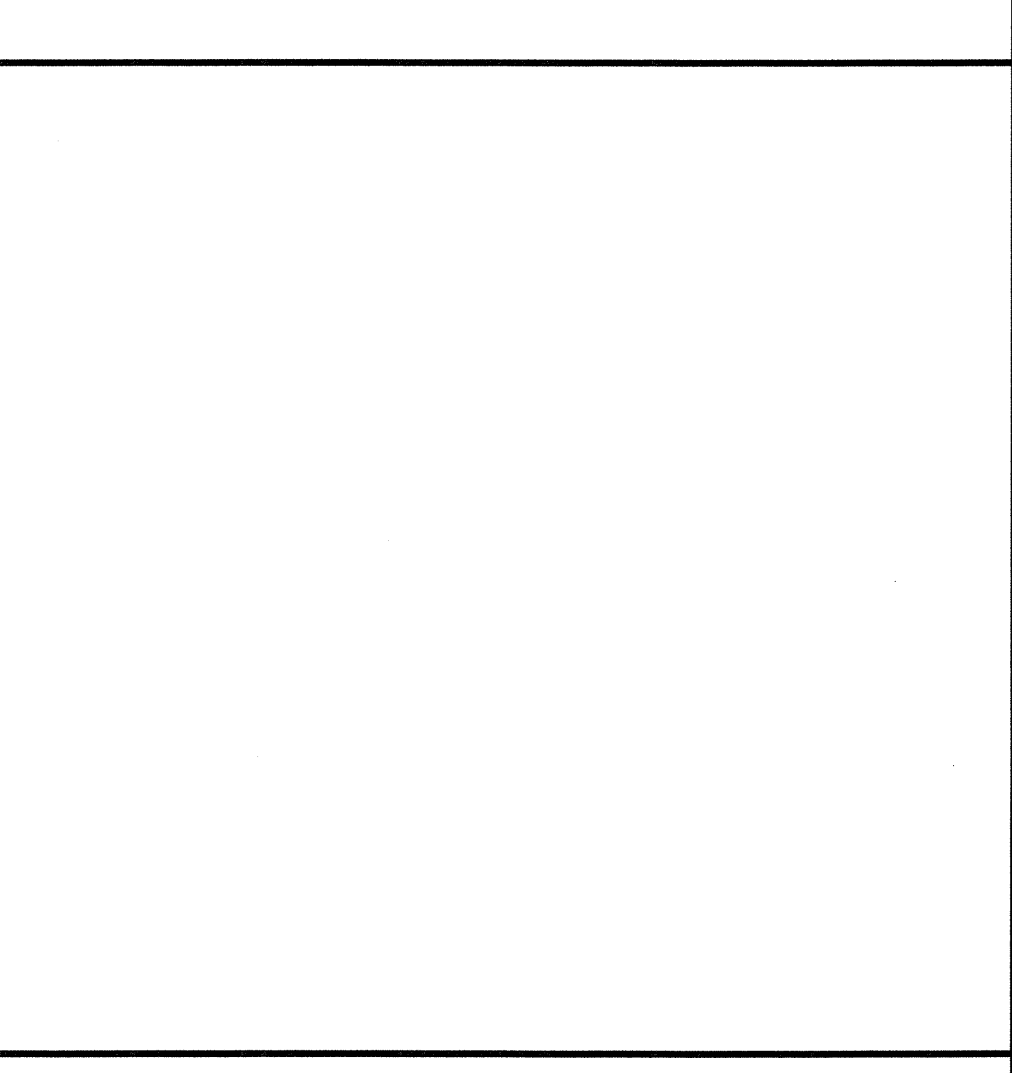
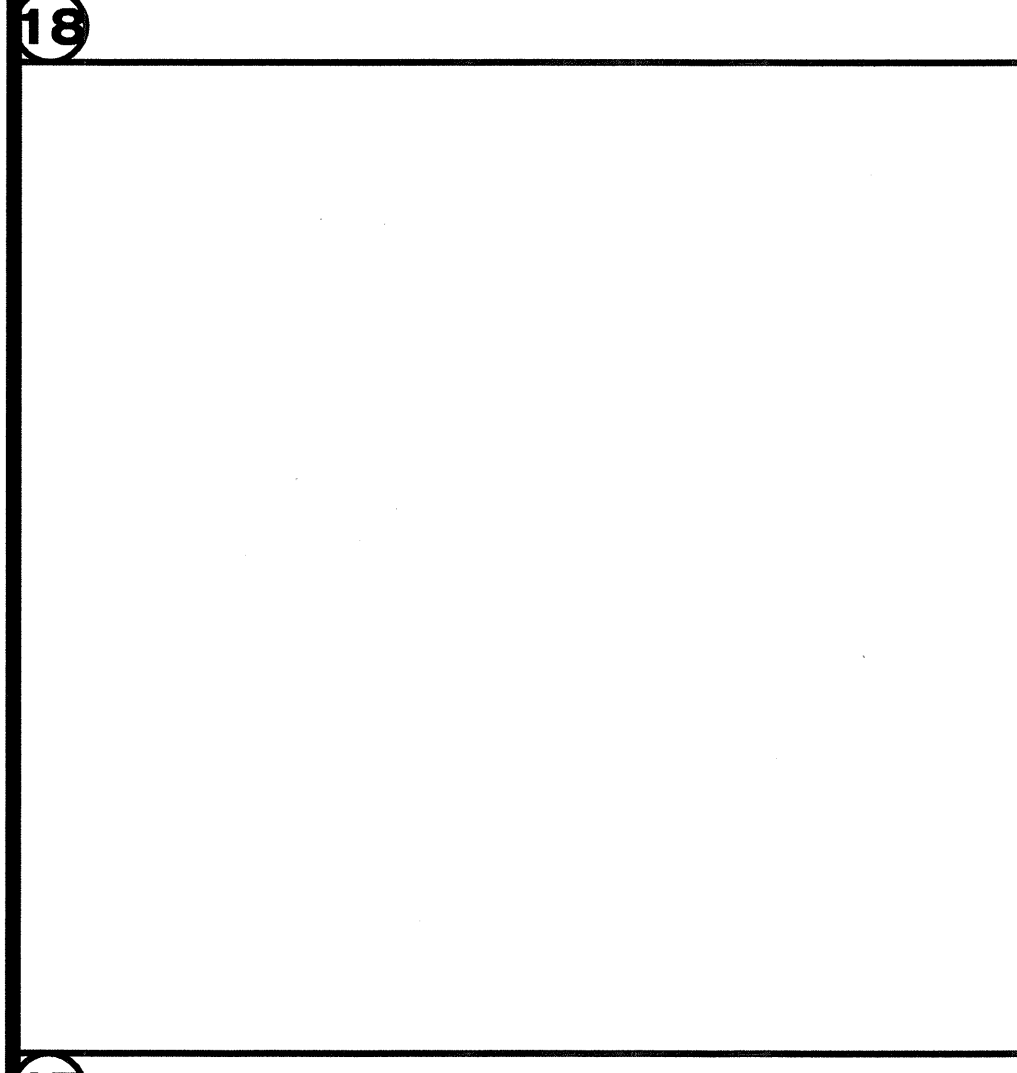
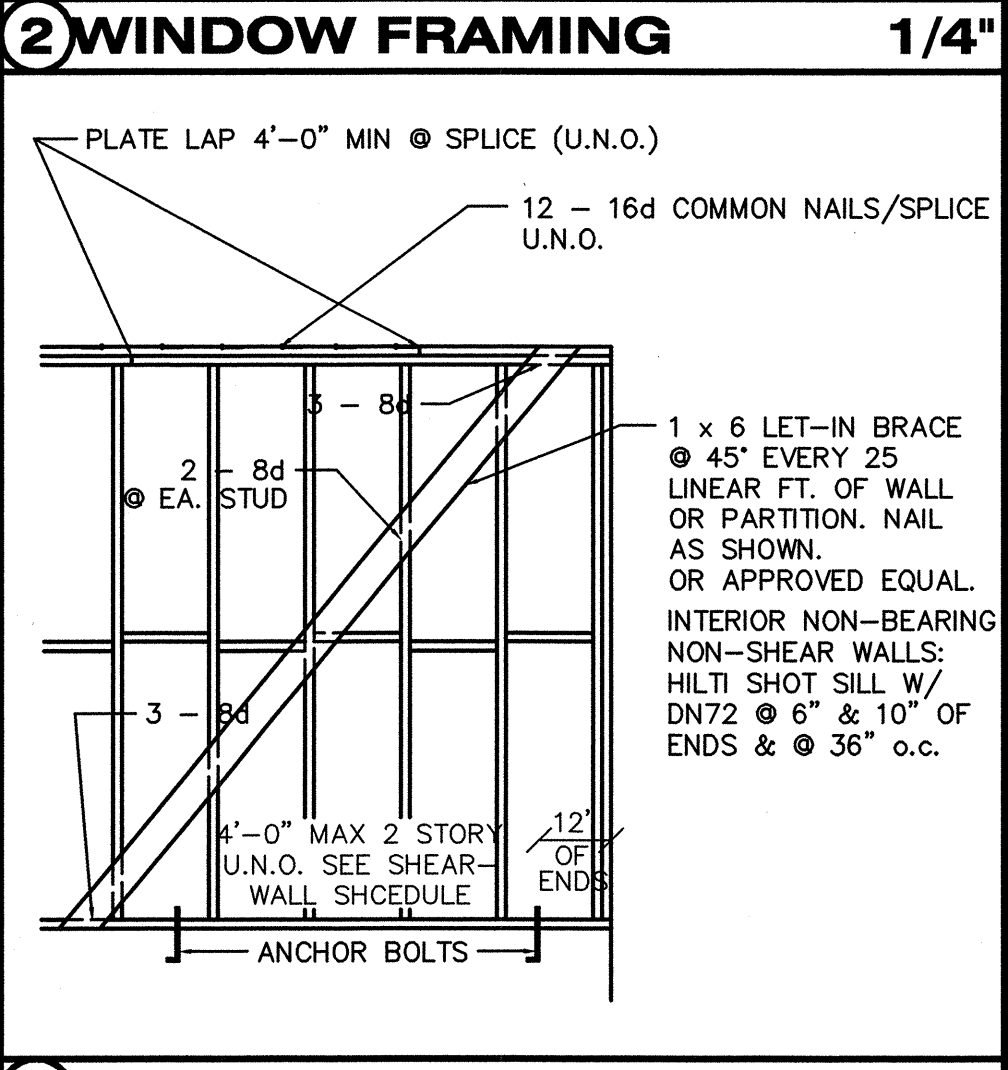
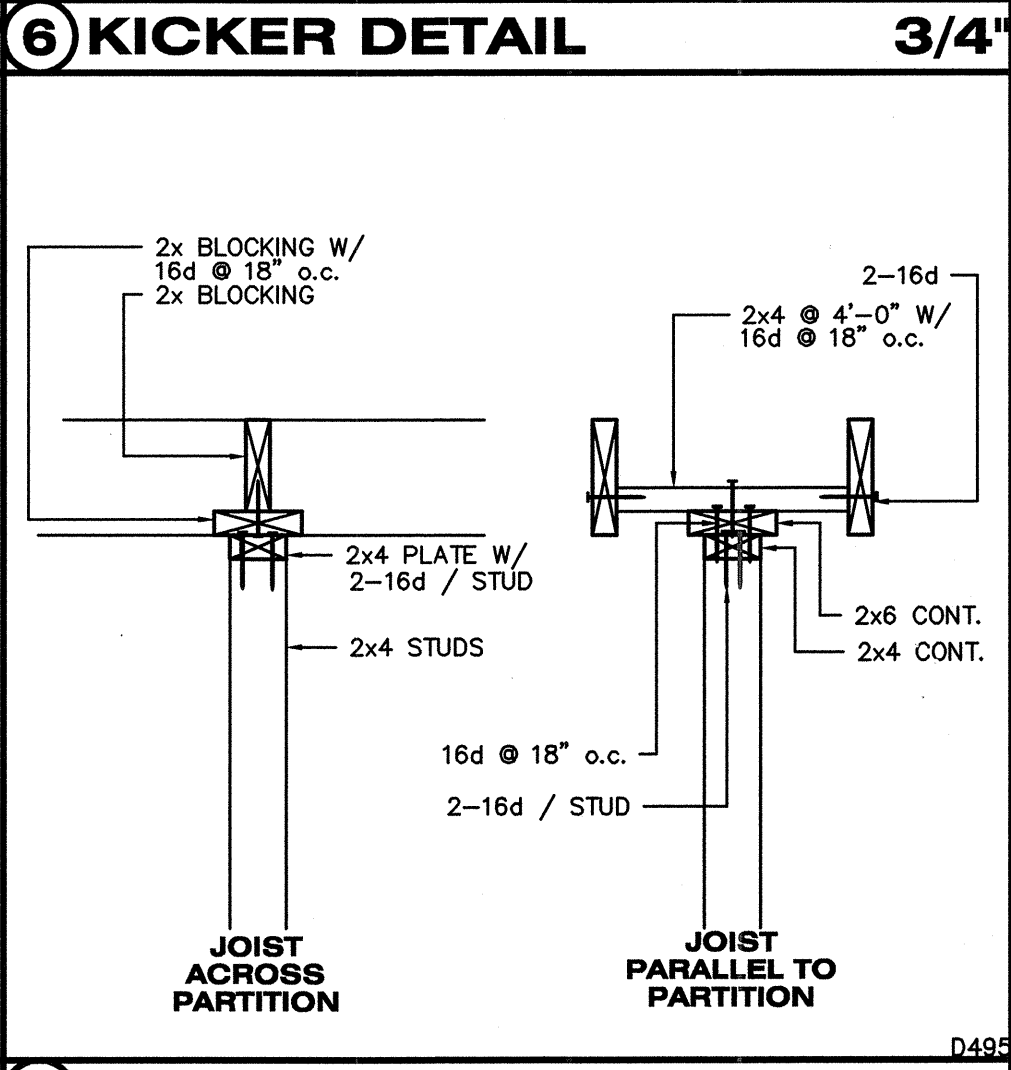
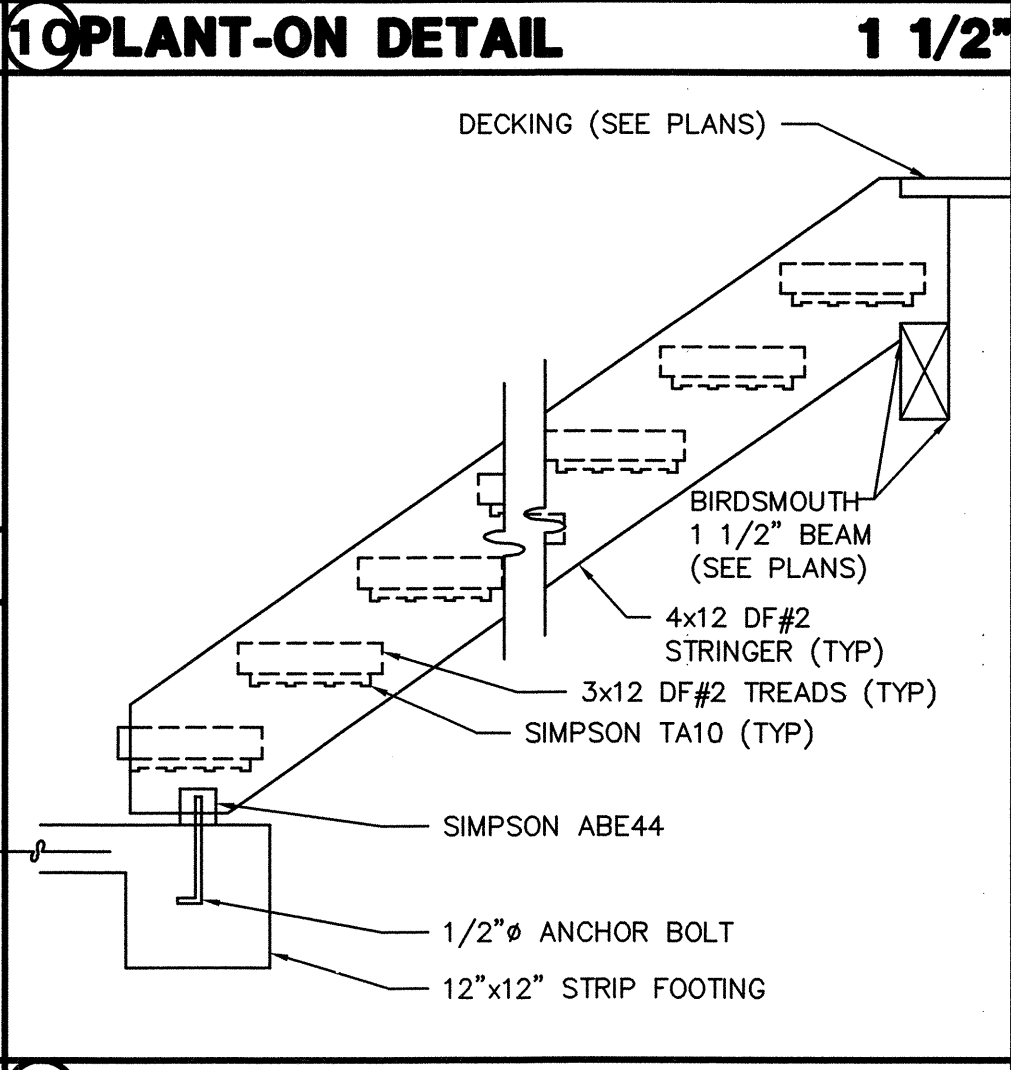
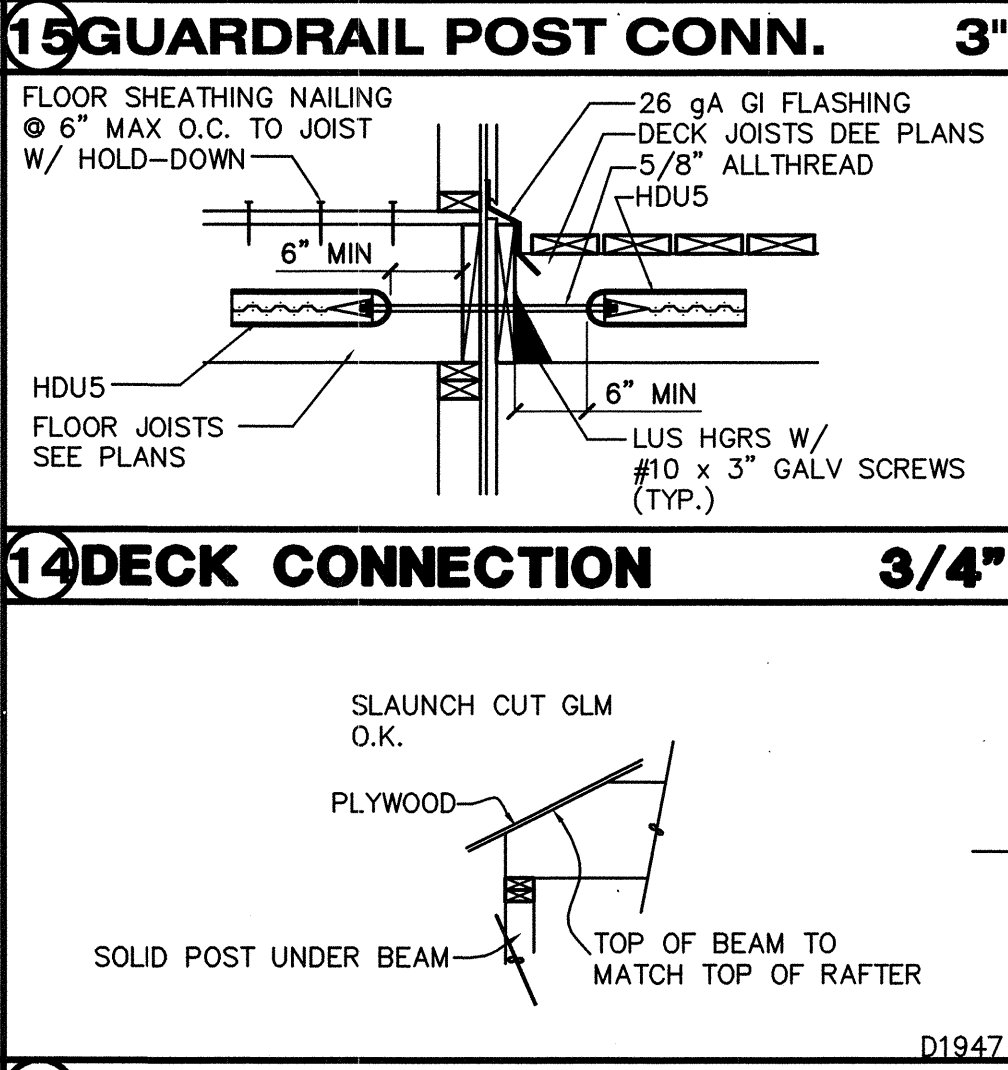
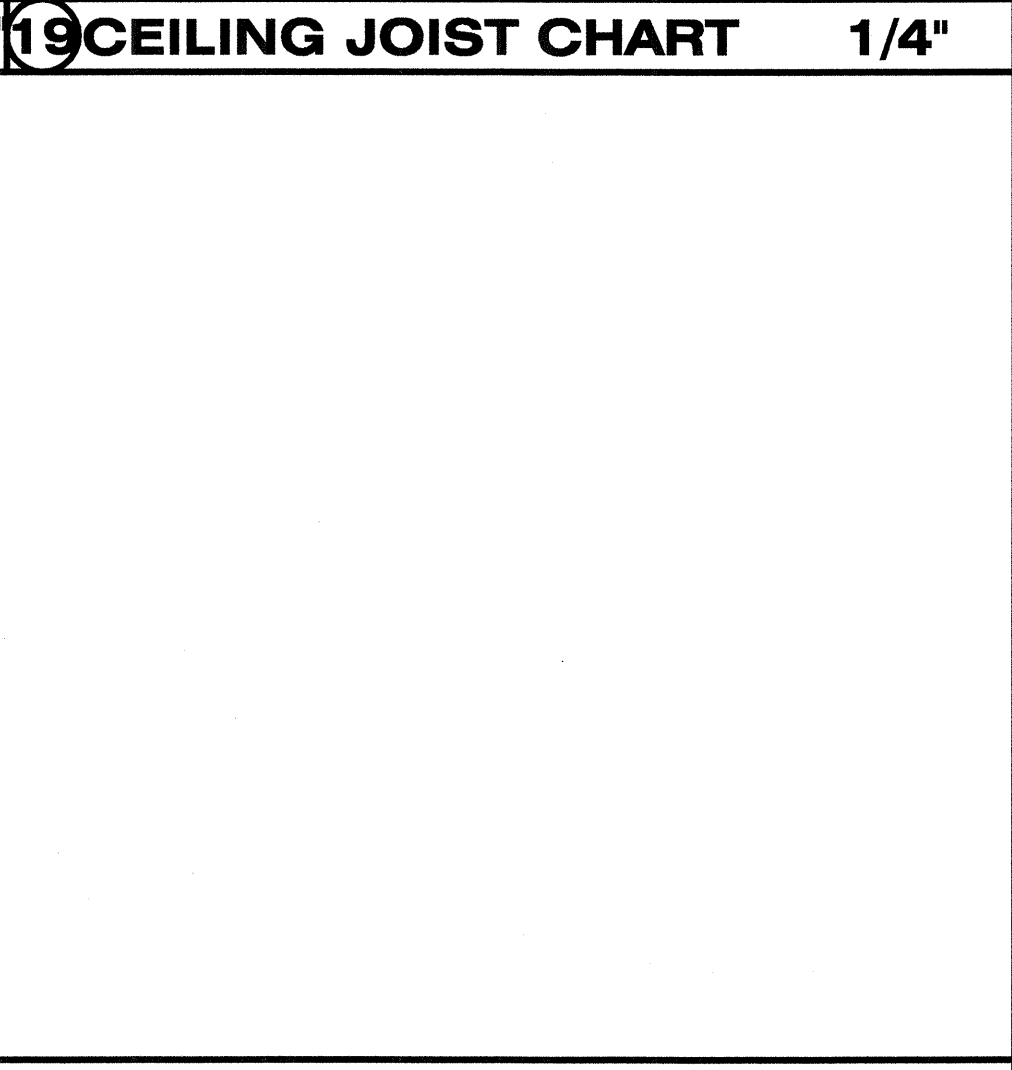
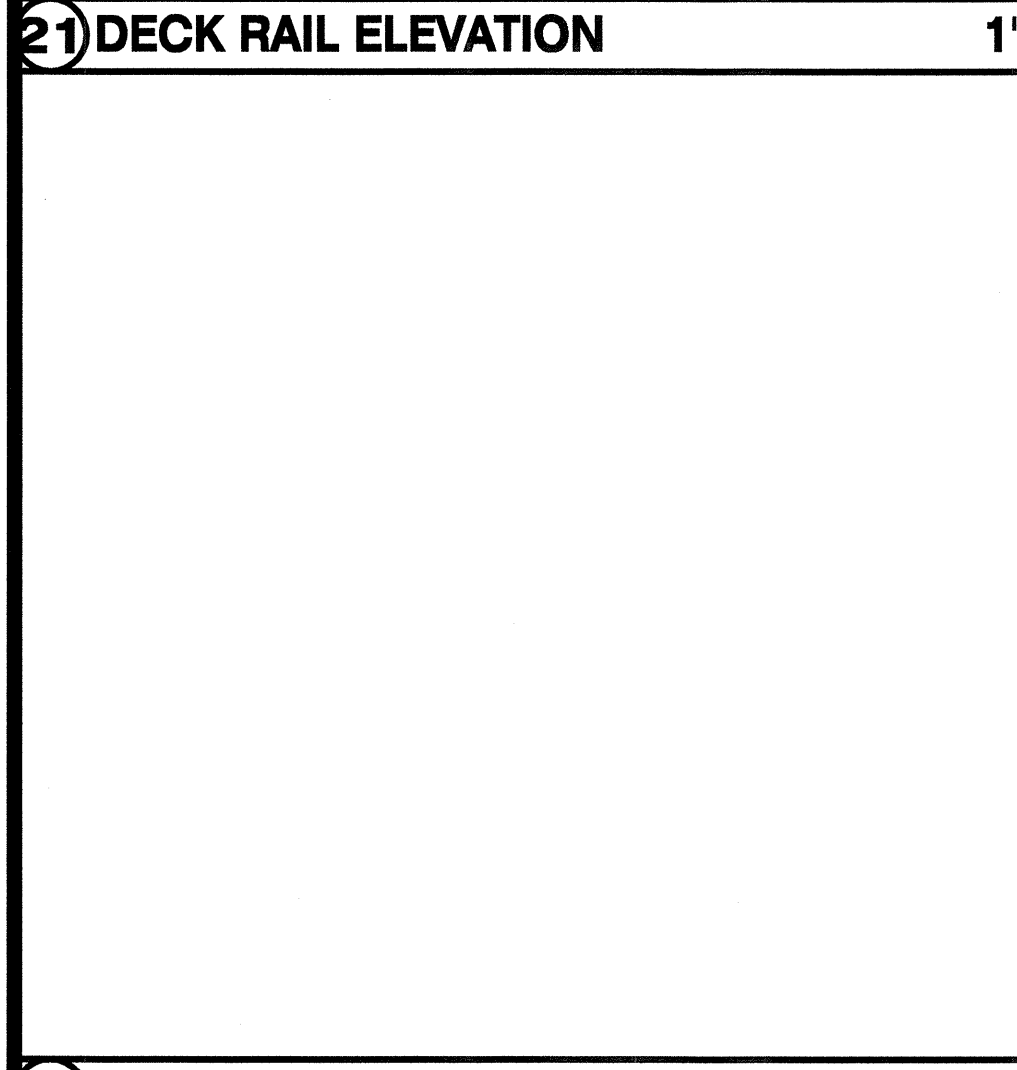
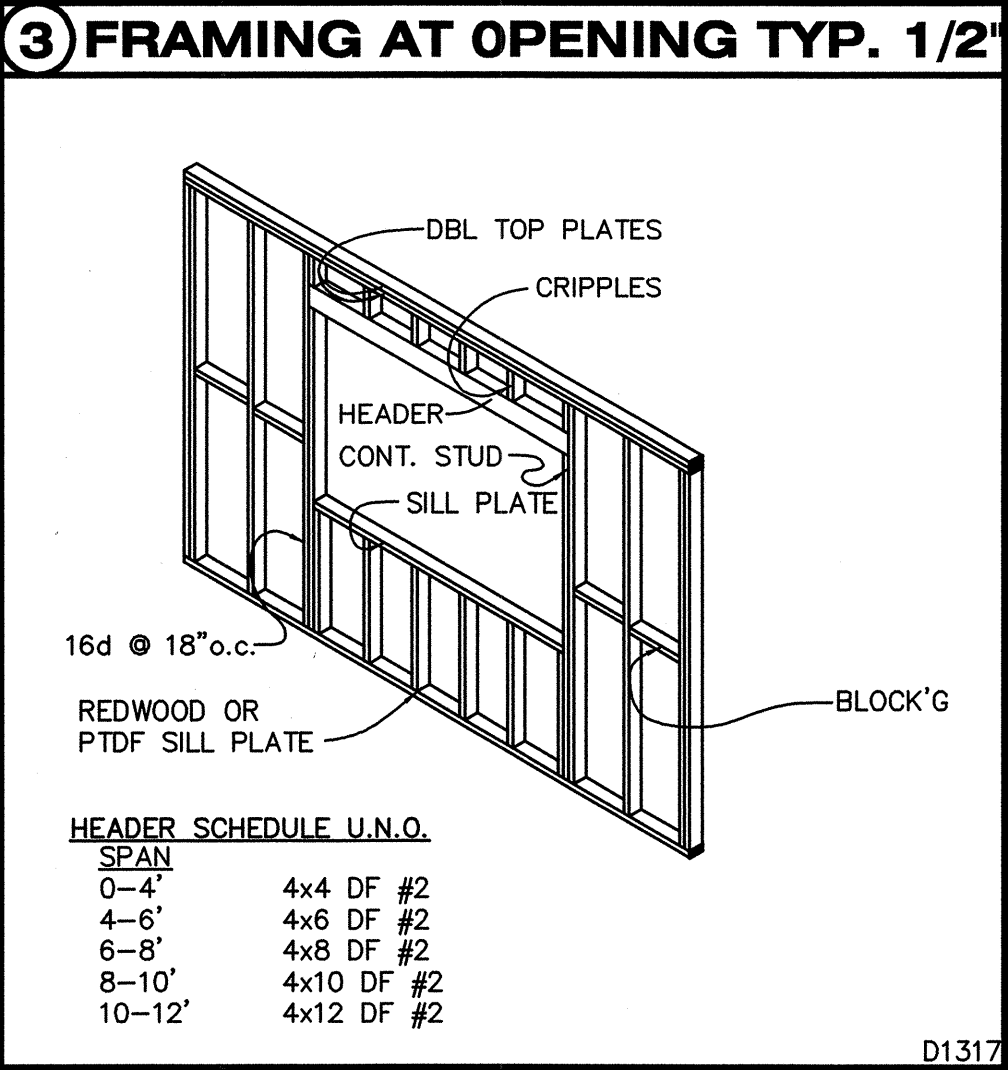
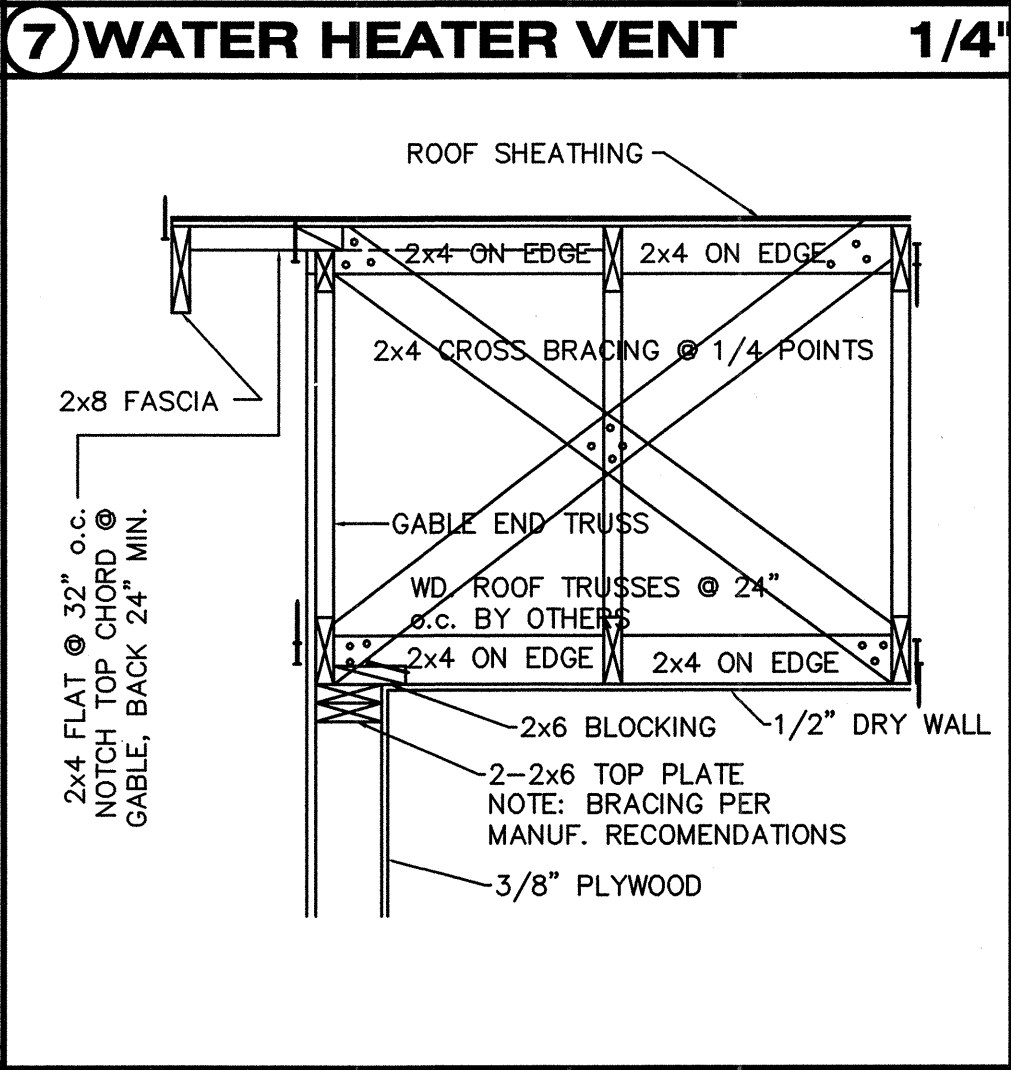
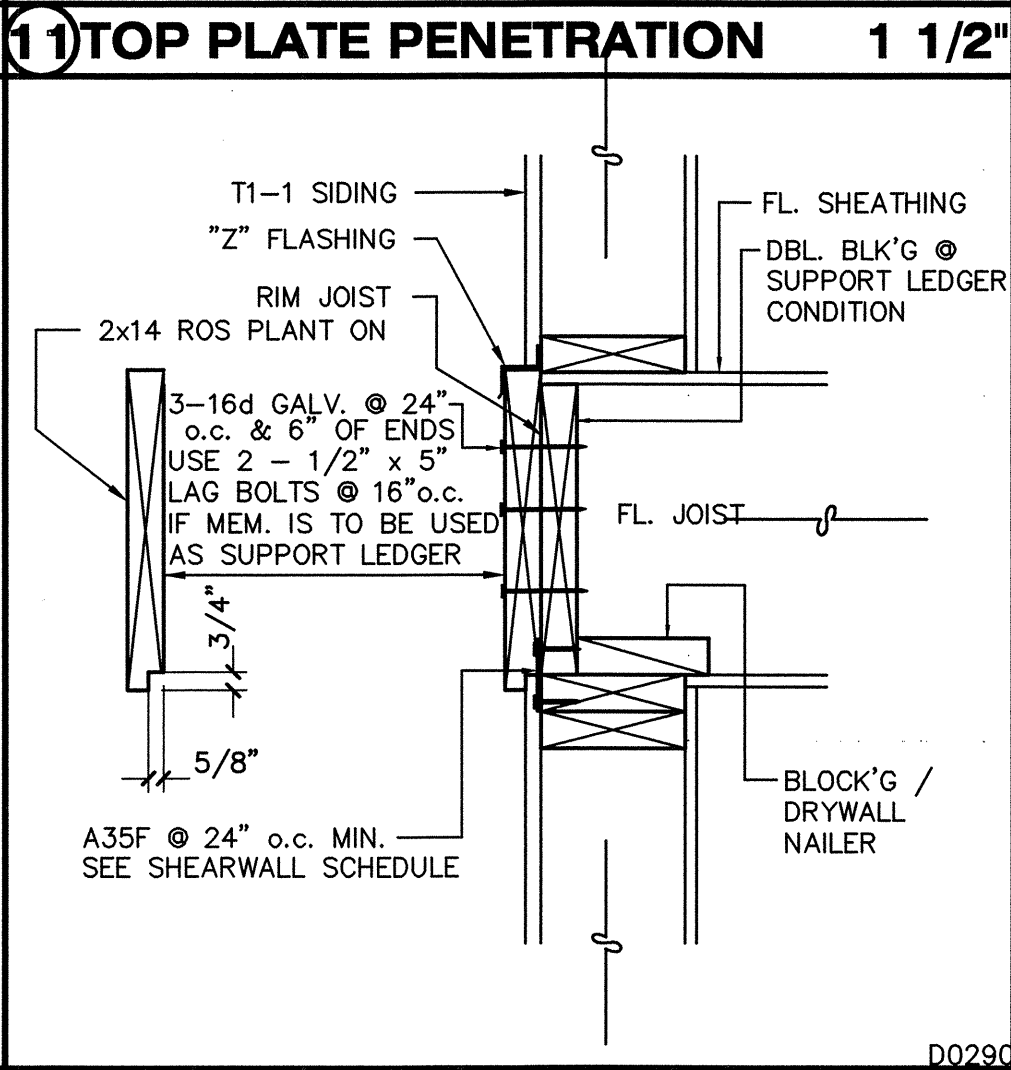
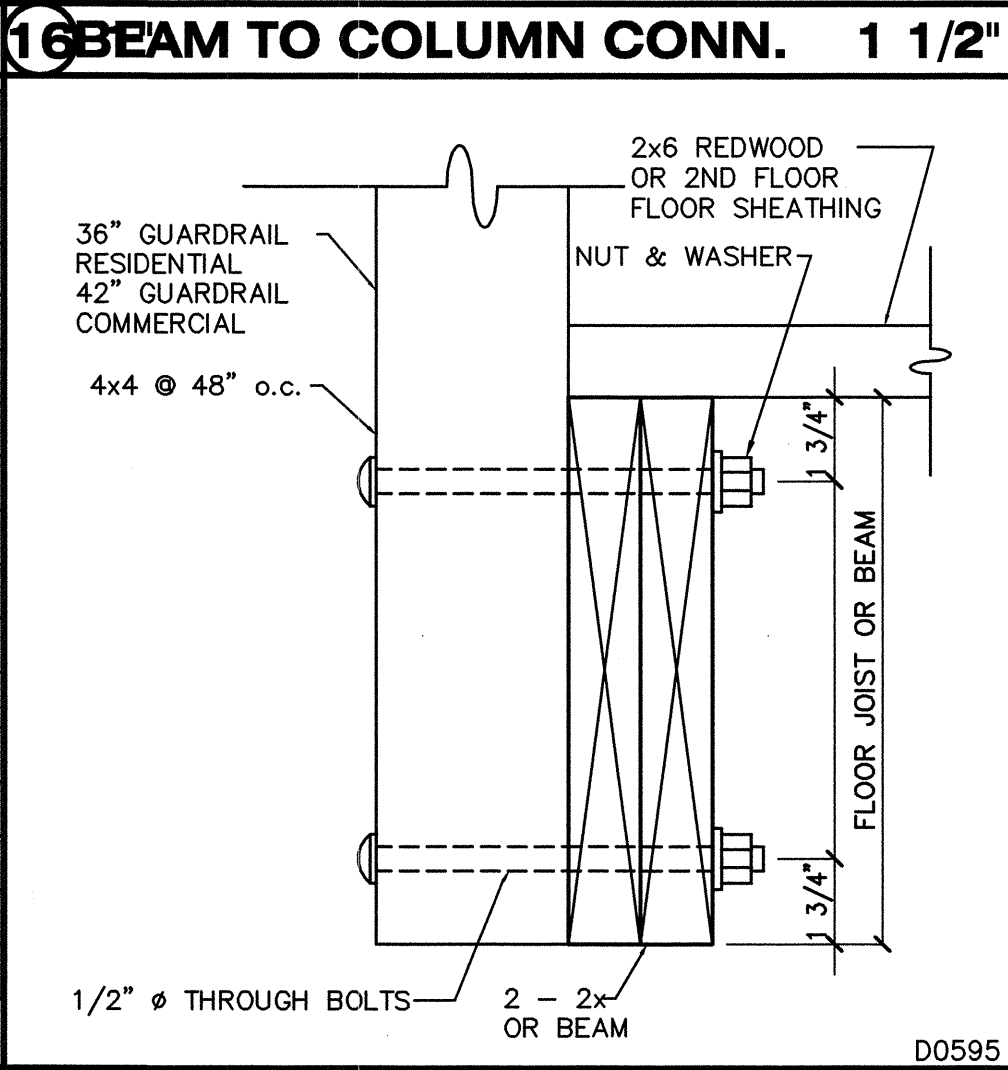
SECTION "F"

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



CEILING JOIST SPAN CHART

| MEMBER SIZE | SPACING | MAX. SPAN |
|-------------|------------|-----------|
| 2x4 DF #2 | 12.0" o.c. | 12'-5" |
| | 16.0" o.c. | 11'-3" |
| | 19.2" o.c. | 10'-7" |
| 2x6 DF #2 | 12.0" o.c. | 9'-10" |
| | 16.0" o.c. | 17'-8" |
| | 19.2" o.c. | 16'-8" |
| 2x8 DF #2 | 12.0" o.c. | 15'-6" |
| | 16.0" o.c. | 25'-8" |
| | 19.2" o.c. | 21'-11" |
| 2x10 DF #2 | 12.0" o.c. | 20'-5" |
| | 16.0" o.c. | 26'-0" |
| | 19.2" o.c. | |



STUD WALL FRAMING 3/8 inch

| CONNECTION | NAILING |
|---|---|
| 1. JOIST TO SILL OR GIRDER, TOENAIL | 3 - 8d |
| 2. BRIDGING TO JOIST, TOENAIL EACH END | 2 - 8d |
| 3. 1 x 6 SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL | 2 - 8d |
| 4. WIDER THAN 1 x 6 SUBFLOOR TO EACH JOIST, FACE NAIL | 3 - 8d |
| 5. 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL | 2 - 16d |
| 6. SOLE PLATE TO JOIST OR GIRDER, FACE NAIL | 16d @ 16" o.c. |
| 7. TOP PLATE TO STUD, END NAIL | 4 - 8d, TOENAIL OR 2 - 16d, END NAIL |
| 8. STUD TO SOLE PLATE | 16d @ 24" o.c. |
| 9. DOUBLE STUD, FACE NAIL | 16d @ 16" o.c. |
| 10. DOUBLED TOP PLATES, FACE NAIL | 2 - 16d |
| 11. TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL | 16d @ 16" o.c. ALONG EACH EDGE |
| 12. CONTINUOUS HEADER, TWO PIECES | 3 - 8d |
| 13. CEILING JOISTS TO PLATE, TOENAIL | 4 - 8d |
| 14. CONTINUOUS HEADER TO STUD, TOENAIL | 3 - 16d |
| 15. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL | 3 - 16d |
| 16. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL | 3 - 8d |
| 17. RAFTER TO PLATE, TOENAIL | 2 - 8d |
| 18. 1" BRACE TO EACH STUD AND PLATE, FACE NAIL | 3 - 8d |
| 19. 1" x 8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL | 2 - 8d |
| 20. WIDER THAN 1" x 8" SHEATHING TO EACH BEARING, FACE NAIL | 16d @ 24" o.c. |
| 21. BUILT UP CORNER STUDS | 20d @ 32" o.c. @ TOP & BOTTOM & STAGGERED 2 - 20d @ ENDS @ EACH SPICE |
| 22. BUILT UP GIRDER AND BEAMS | 2 - 16d @ EA. BEARING |
| 23. 2" PLANKS | |

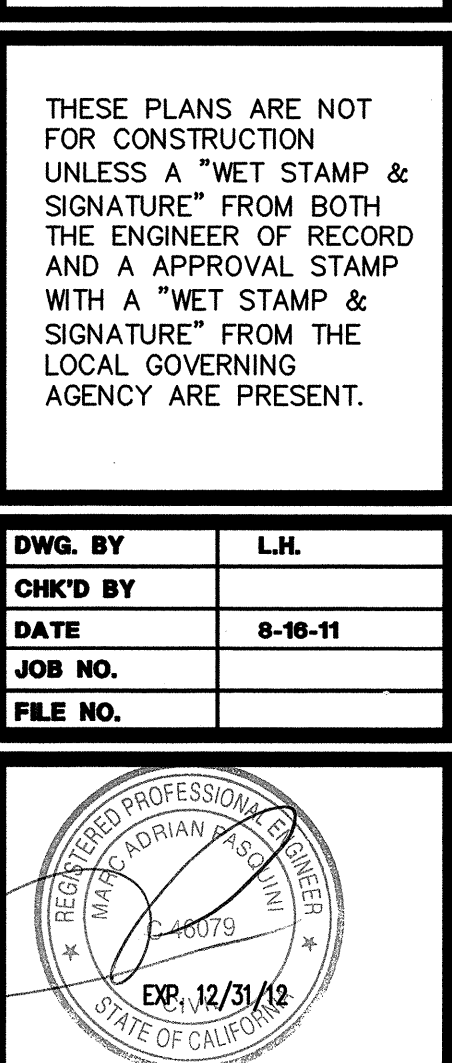


PASQUINI ENGINEERING INCORPORATED
 903 H Street Suite 300
 Bakersfield, CA 93304
 Telephone: (805) 328-9800
 Fax: (805) 328-9030

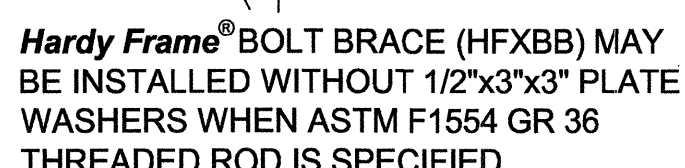
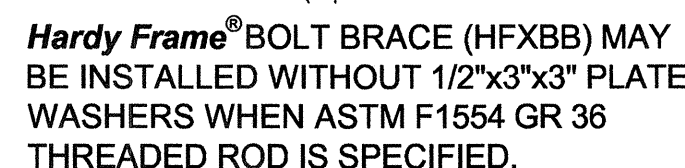
| NO. | DATE |
|-----|------|
| | |
| | |
| | |

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

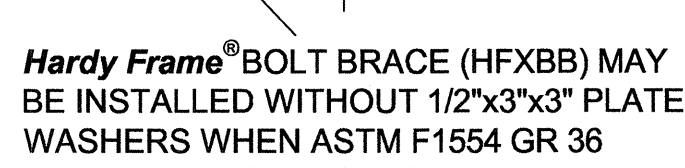
| DWG. BY | L.H. |
|----------|---------|
| CHK'D BY | |
| DATE | 8-16-11 |
| JOB NO. | |
| FILE NO. | |



D-3
 SHEET
 OF SHEET



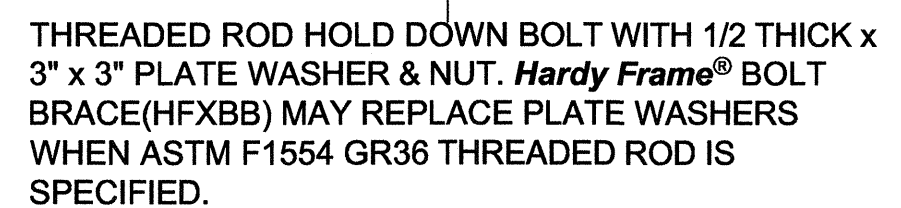
2
HFX1



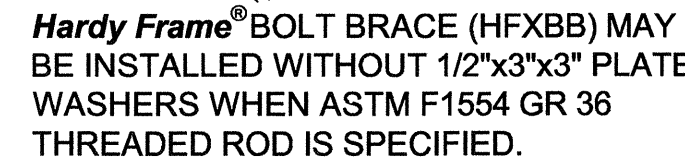
- A) If the **Hardy Frame**® is to be installed on a mudsill, plot the bottom plate and cut the length to match the width of the Panel. If located next to a door opening, allow the plate to run into the opening.
- B) Set the **Hardy Frame**® over the embed bolts and install (1) Hardened Round, (2) Flat, or (2) SAE washers and a nut.
- C) Tighten nuts until snug tight.
- D) After framing and plumb & line are complete, install 1/4"x 3" screws through the top of the Frame into the double top plates or header above.



6
HFX1



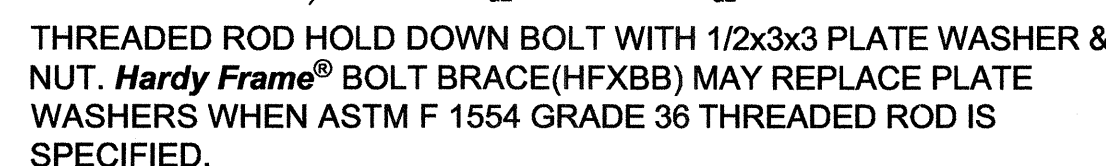
5
HFX1



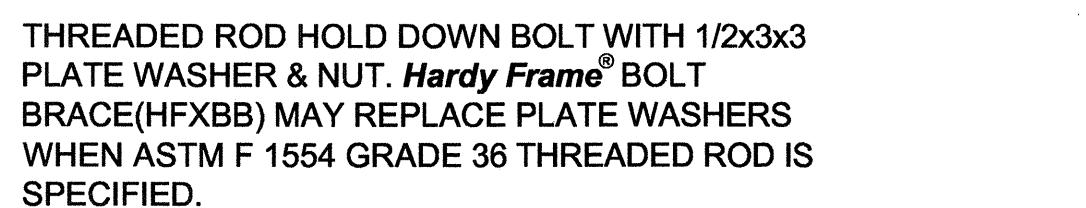
4
HFX1



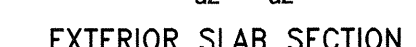
HARDY FRAME® 2006 IBC HOLD DOWN EMBEDMENT TABLE



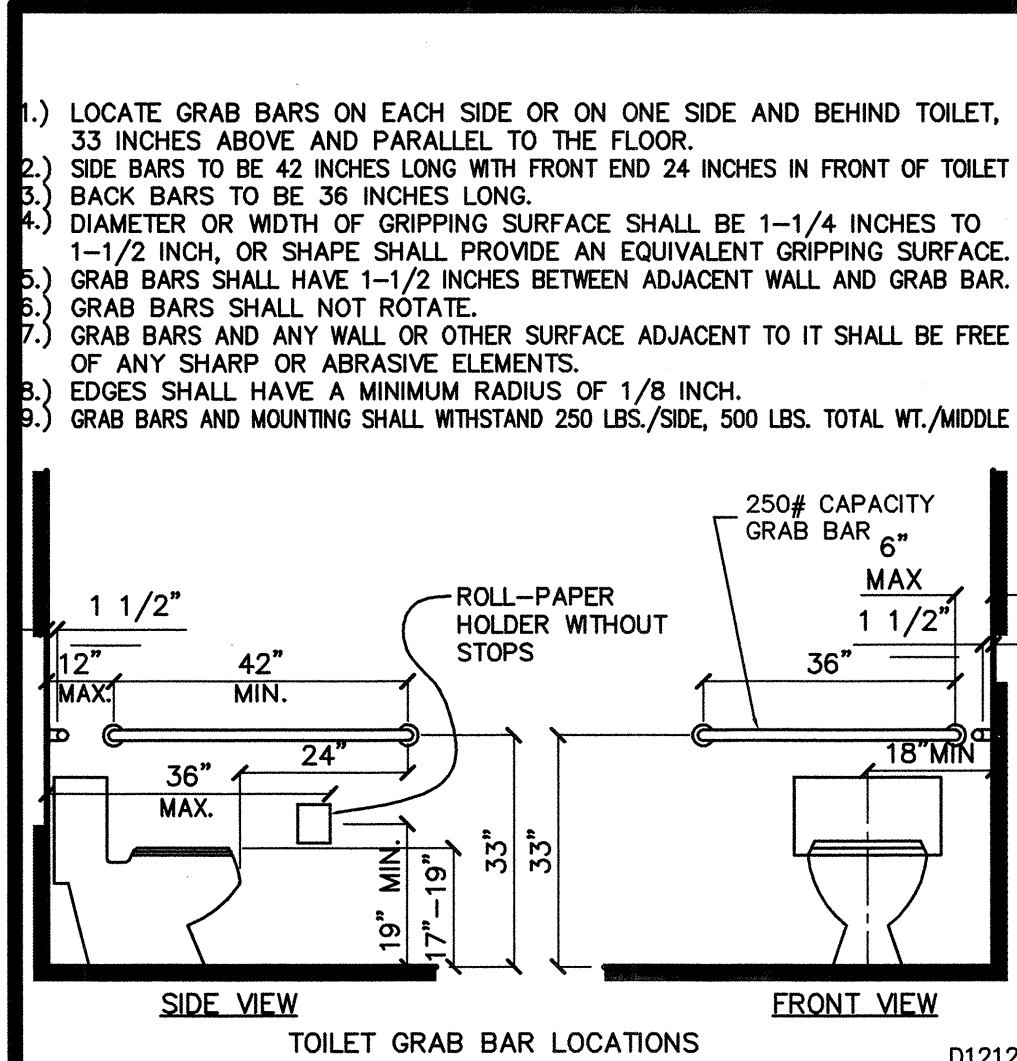
9
HFX1



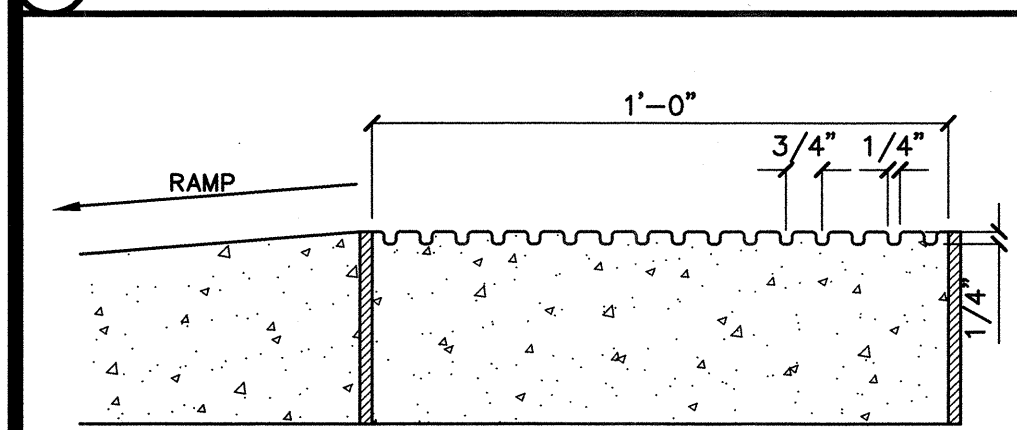
8
HFX1



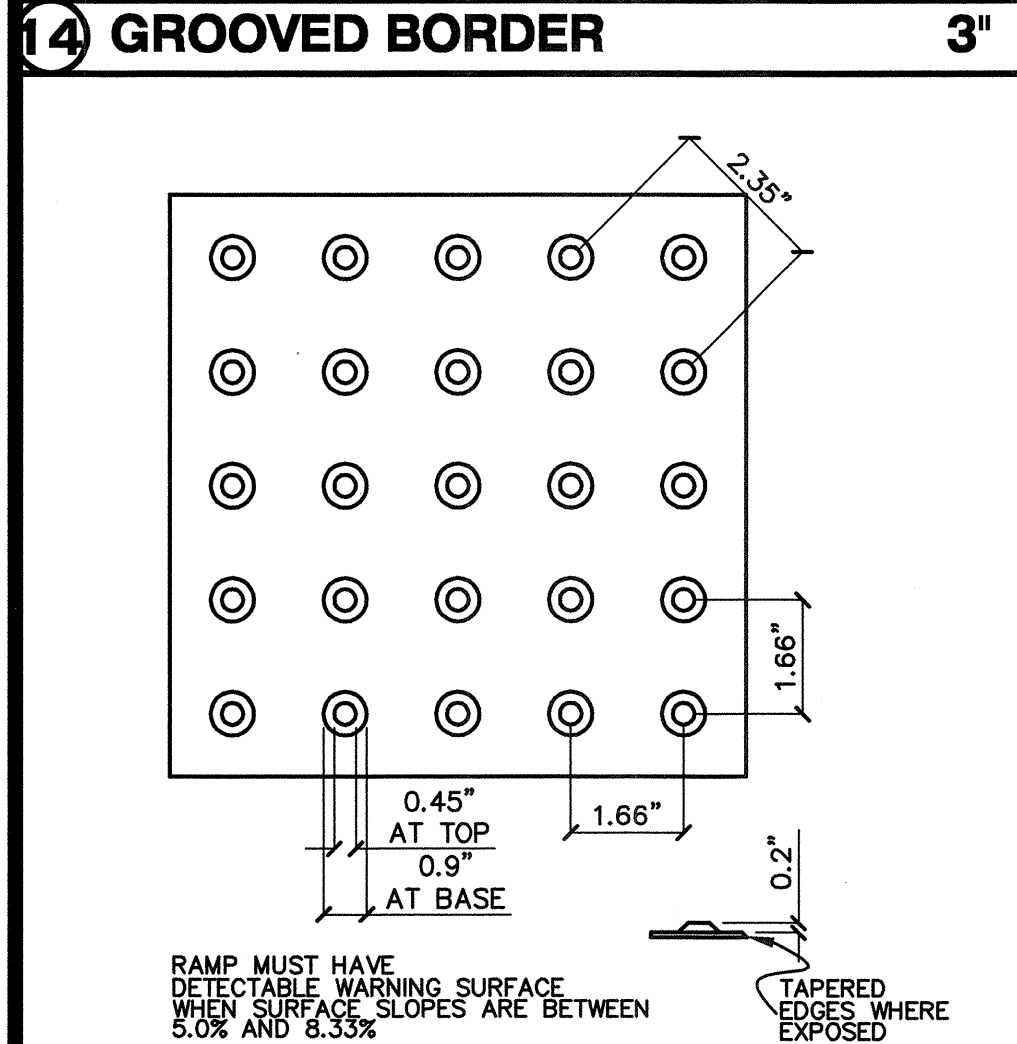
7a
HFX1



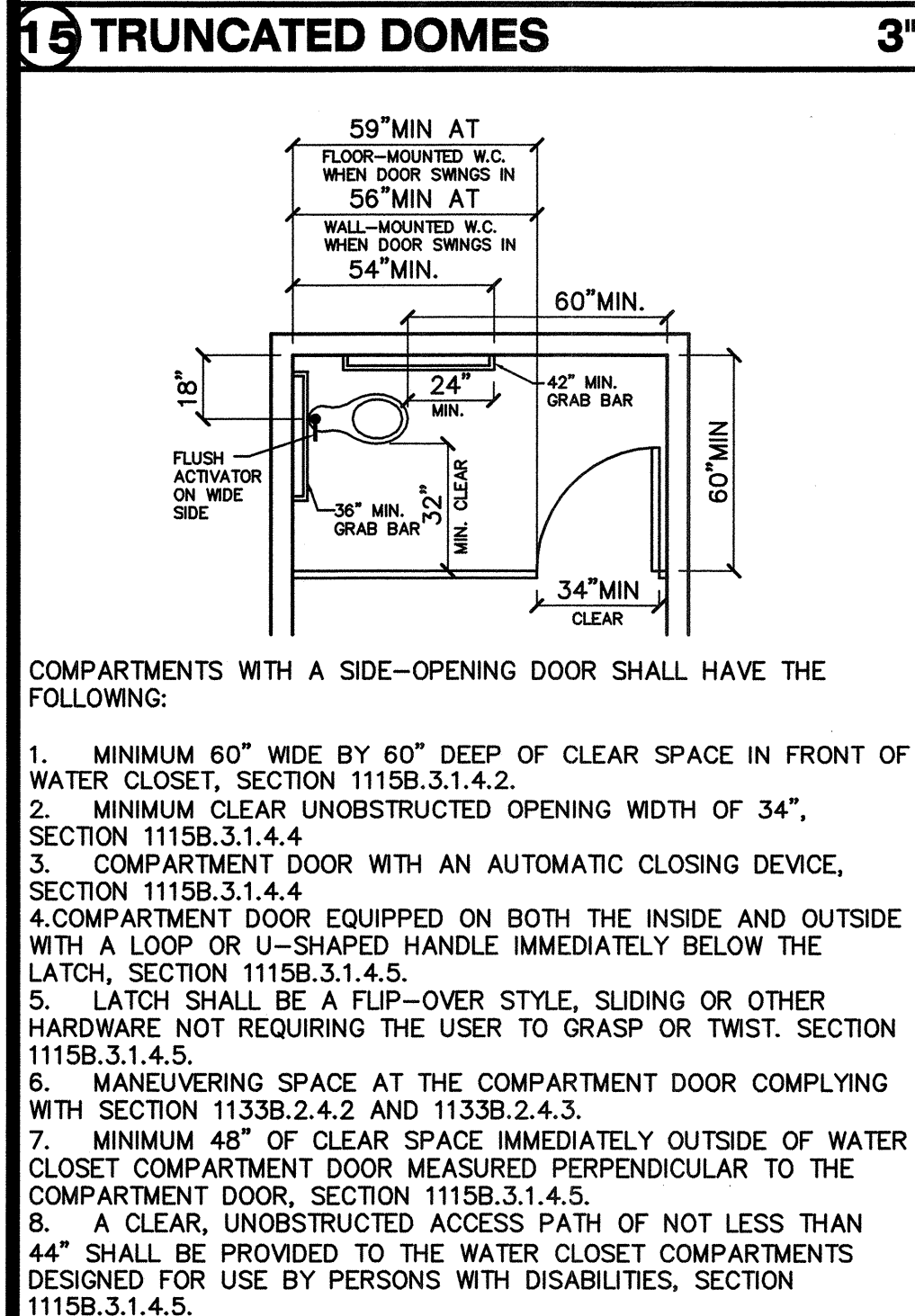
13 TOILET GRAB BAR REQUIREMENTS



15 TRUNCATED DOMES



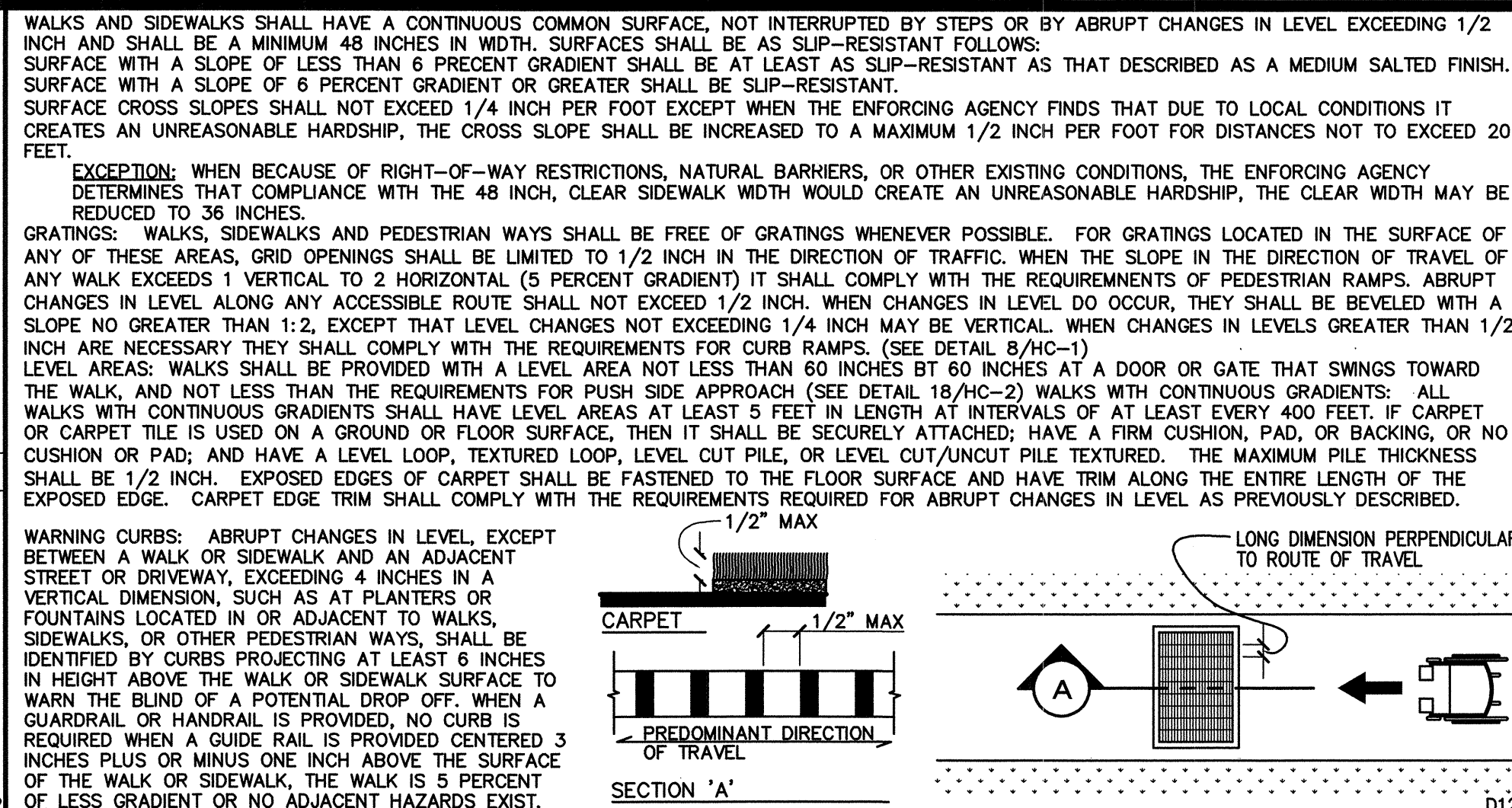
17 SIDE-OPENING DOOR DETAIL



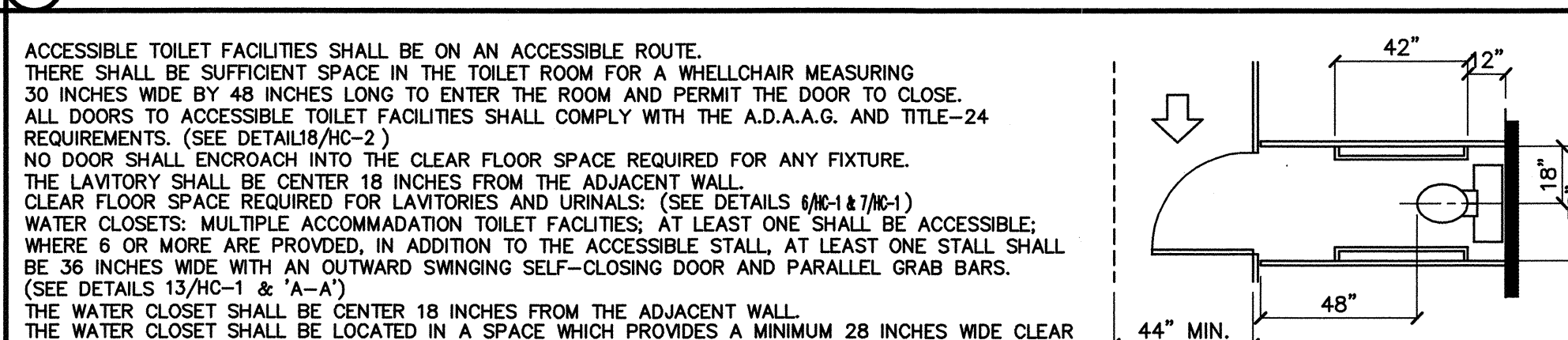
19 ACCESSIBLE TOILET FACILITIES REQUIREMENTS

20 ACCESSIBLE TOILET FACILITIES REQUIREMENTS

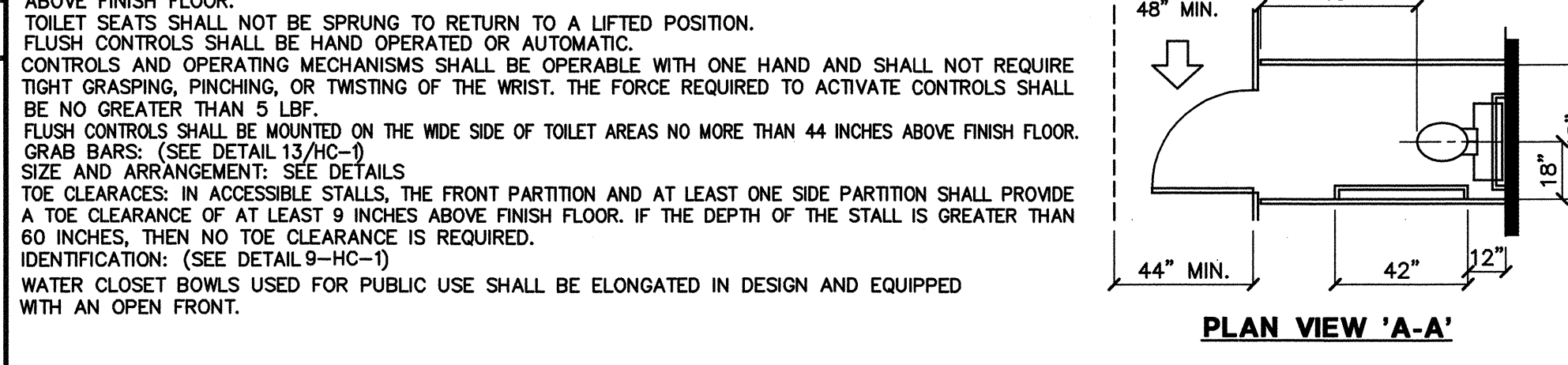
21 ACCESSIBLE TOILET FACILITIES REQUIREMENTS



23 LAVATORIES AND MIRRORS



25 ACCESSIBLE URINALS



27 TRAFFIC ENTRY WARNING SIGN

28 TRAFFIC ENTRY WARNING SIGN

29 TRAFFIC ENTRY WARNING SIGN

30 TRAFFIC ENTRY WARNING SIGN

31 TRAFFIC ENTRY WARNING SIGN

32 TRAFFIC ENTRY WARNING SIGN

33 TRAFFIC ENTRY WARNING SIGN

34 TRAFFIC ENTRY WARNING SIGN

35 TRAFFIC ENTRY WARNING SIGN

36 TRAFFIC ENTRY WARNING SIGN

37 TRAFFIC ENTRY WARNING SIGN

38 TRAFFIC ENTRY WARNING SIGN

39 TRAFFIC ENTRY WARNING SIGN

40 TRAFFIC ENTRY WARNING SIGN

41 TRAFFIC ENTRY WARNING SIGN

42 TRAFFIC ENTRY WARNING SIGN

43 TRAFFIC ENTRY WARNING SIGN

44 TRAFFIC ENTRY WARNING SIGN

45 TRAFFIC ENTRY WARNING SIGN

46 TRAFFIC ENTRY WARNING SIGN

47 TRAFFIC ENTRY WARNING SIGN

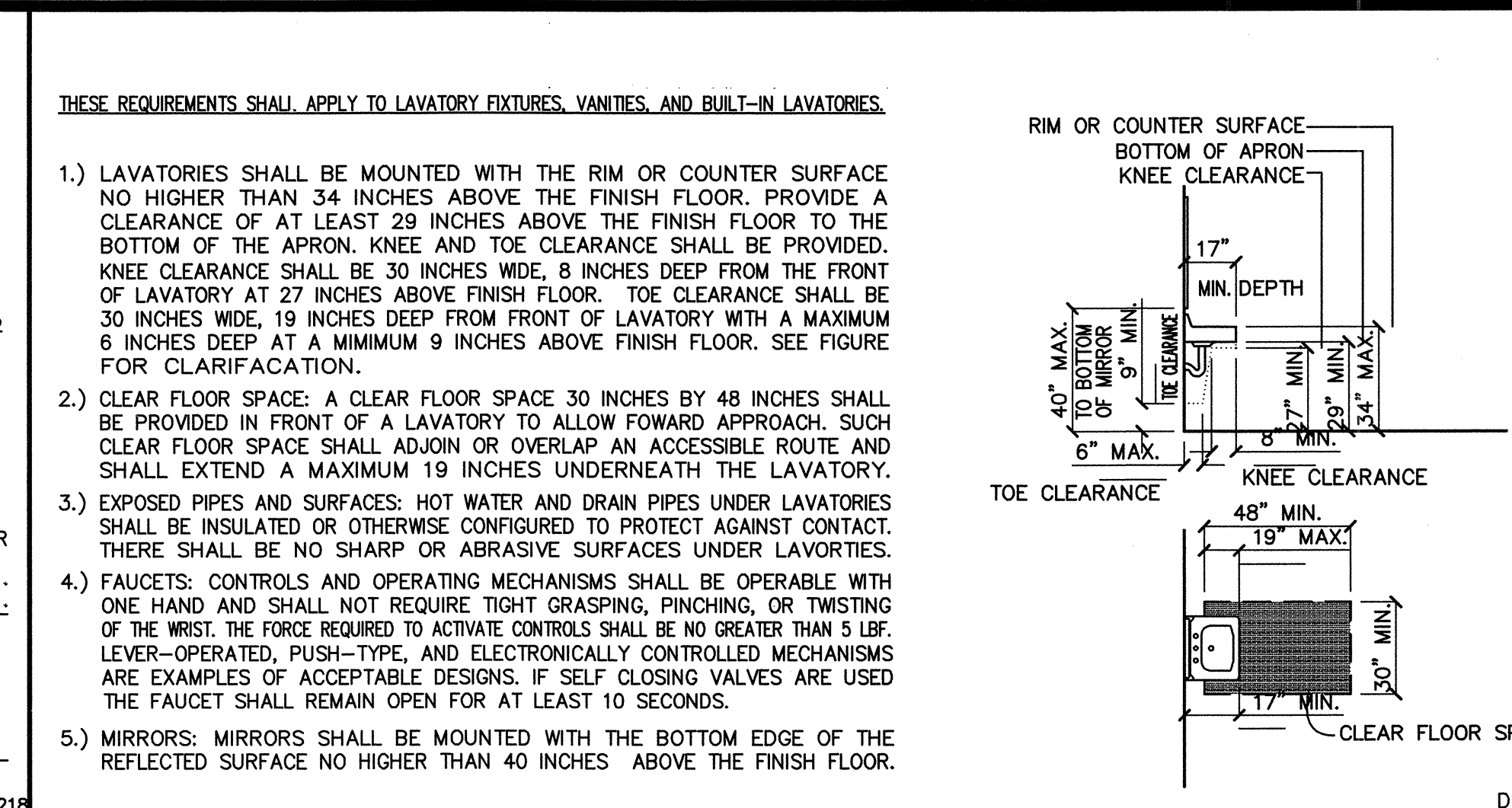
48 TRAFFIC ENTRY WARNING SIGN

49 TRAFFIC ENTRY WARNING SIGN

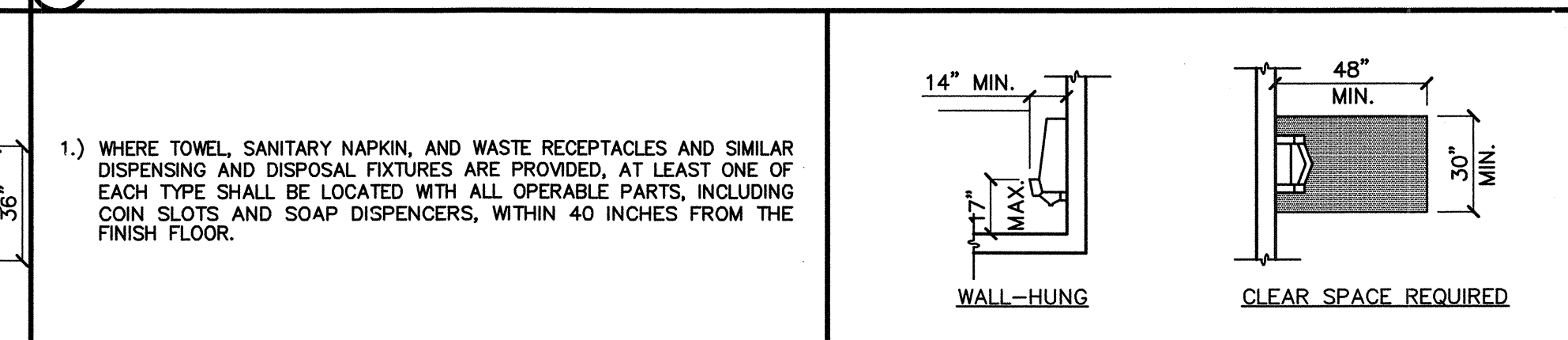
50 TRAFFIC ENTRY WARNING SIGN

51 TRAFFIC ENTRY WARNING SIGN

52 TRAFFIC ENTRY WARNING SIGN



54 ACCESSIBLE URINALS



56 TRAFFIC ENTRY WARNING SIGN

57 TRAFFIC ENTRY WARNING SIGN

58 TRAFFIC ENTRY WARNING SIGN

59 TRAFFIC ENTRY WARNING SIGN

60 TRAFFIC ENTRY WARNING SIGN

61 TRAFFIC ENTRY WARNING SIGN

62 TRAFFIC ENTRY WARNING SIGN

63 TRAFFIC ENTRY WARNING SIGN

64 TRAFFIC ENTRY WARNING SIGN

65 TRAFFIC ENTRY WARNING SIGN

66 TRAFFIC ENTRY WARNING SIGN

67 TRAFFIC ENTRY WARNING SIGN

68 TRAFFIC ENTRY WARNING SIGN

69 TRAFFIC ENTRY WARNING SIGN

70 TRAFFIC ENTRY WARNING SIGN

71 TRAFFIC ENTRY WARNING SIGN

72 TRAFFIC ENTRY WARNING SIGN

73 TRAFFIC ENTRY WARNING SIGN

74 TRAFFIC ENTRY WARNING SIGN

75 TRAFFIC ENTRY WARNING SIGN

76 TRAFFIC ENTRY WARNING SIGN

77 TRAFFIC ENTRY WARNING SIGN

78 TRAFFIC ENTRY WARNING SIGN

79 TRAFFIC ENTRY WARNING SIGN

80 TRAFFIC ENTRY WARNING SIGN

81 TRAFFIC ENTRY WARNING SIGN

82 TRAFFIC ENTRY WARNING SIGN

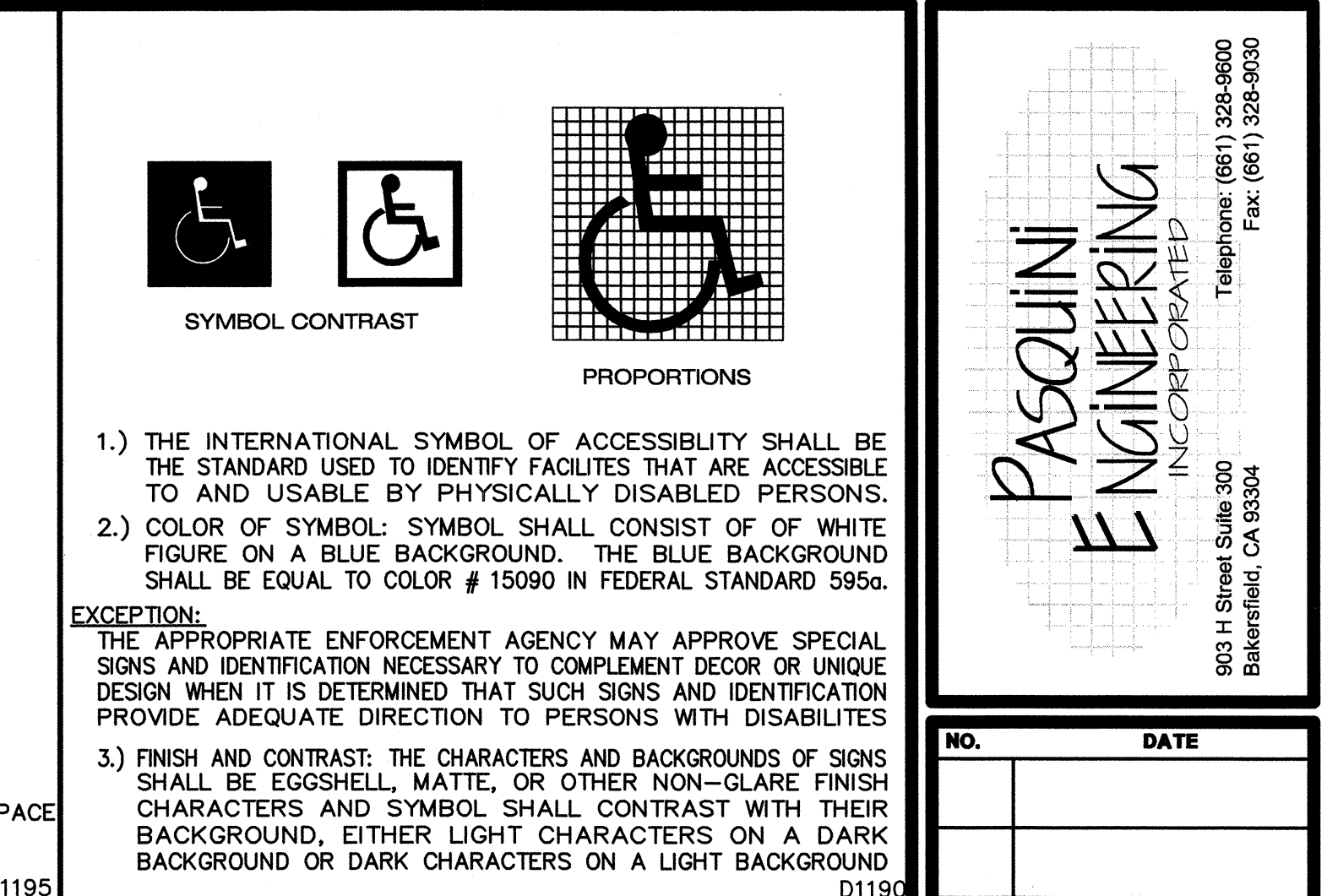
83 TRAFFIC ENTRY WARNING SIGN

84 TRAFFIC ENTRY WARNING SIGN

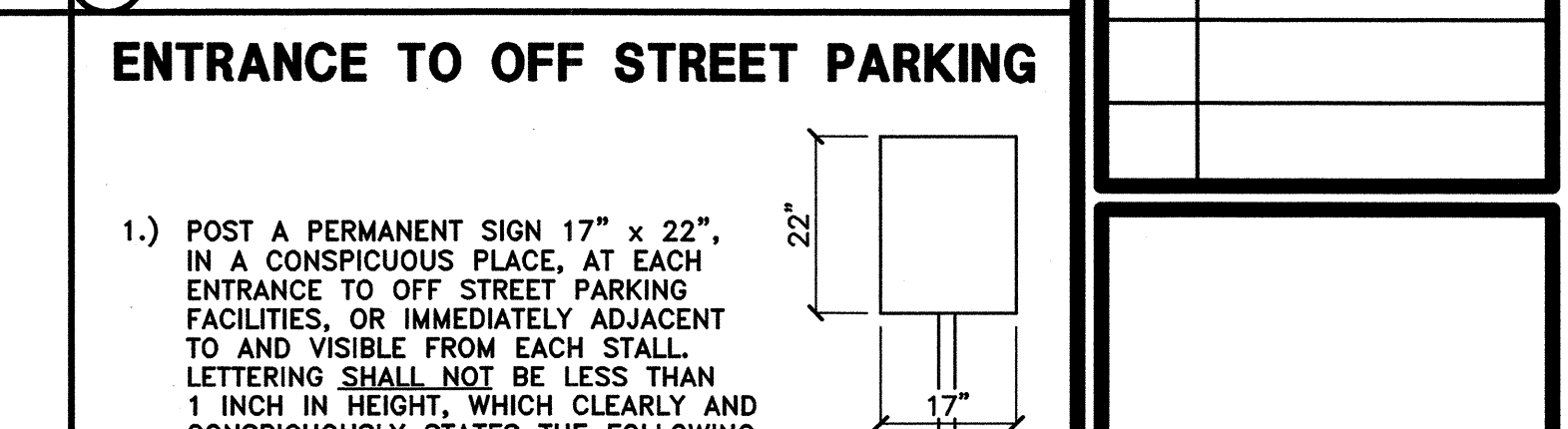
85 TRAFFIC ENTRY WARNING SIGN

86 TRAFFIC ENTRY WARNING SIGN

87 TRAFFIC ENTRY WARNING SIGN



89 ACCESSIBLE URINALS



91 TRAFFIC ENTRY WARNING SIGN

92 TRAFFIC ENTRY WARNING SIGN

93 TRAFFIC ENTRY WARNING SIGN

94 TRAFFIC ENTRY WARNING SIGN

95 TRAFFIC ENTRY WARNING SIGN

96 TRAFFIC ENTRY WARNING SIGN

97 TRAFFIC ENTRY WARNING SIGN

98 TRAFFIC ENTRY WARNING SIGN

99 TRAFFIC ENTRY WARNING SIGN

100 TRAFFIC ENTRY WARNING SIGN

101 TRAFFIC ENTRY WARNING SIGN

102 TRAFFIC ENTRY WARNING SIGN

103 TRAFFIC ENTRY WARNING SIGN

104 TRAFFIC ENTRY WARNING SIGN

105 TRAFFIC ENTRY WARNING SIGN

106 TRAFFIC ENTRY WARNING SIGN

107 TRAFFIC ENTRY WARNING SIGN

108 TRAFFIC ENTRY WARNING SIGN

109 TRAFFIC ENTRY WARNING SIGN

110 TRAFFIC ENTRY WARNING SIGN

111 TRAFFIC ENTRY WARNING SIGN

112 TRAFFIC ENTRY WARNING SIGN

113 TRAFFIC ENTRY WARNING SIGN

114 TRAFFIC ENTRY WARNING SIGN

115 TRAFFIC ENTRY WARNING SIGN

116 TRAFFIC ENTRY WARNING SIGN

117 TRAFFIC ENTRY WARNING SIGN

118 TRAFFIC ENTRY WARNING SIGN

119 TRAFFIC ENTRY WARNING SIGN

120 TRAFFIC ENTRY WARNING SIGN

121 TRAFFIC ENTRY WARNING SIGN

122 TRAFFIC ENTRY WARNING SIGN

PASQUINI ENGINEERING INCORPORATED

903 H Street Suite 300
Bakersfield, CA 93304

Telephone: (805) 328-9600
Fax: (805) 328-9950

HC-1

PRINTED: 5/24/2012

SECTION 5.407
WATER RESISTANCE AND
MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. PROVIDE A WEATHER-RESISTANT EXTERIOR WALL AND FOUNDATION ENVELOPE AS REQUIRED BY CALIFORNIA BUILDING CODE SECTION 1403.2 (WEATHER PROTECTION) AND CALIFORNIA ENERGY CODE SECTION 150, (MANDATORY FEATURES AND DEVICES), MANUFACTURER'S INSTALLATION INSTRUCTIONS OR LOCAL ORDINANCE, WHICHEVER IS MORE STRINGENT.

5.407.2 MOISTURE CONTROL. EMPLOY MOISTURE CONTROL MEASURES BY THE FOLLOWING METHODS:

5.407.2.1 SPRINKLERS. DESIGN AND MAINTAIN LANDSCAPE IRRIGATION SYSTEMS TO PREVENT SPRAY ON STRUCTURES.

5.407.2.2 ENTRIES AND OPENINGS. DESIGN EXTERIOR ENTRIES AND/OR OPENINGS SUBJECT TO FOOT TRAFFIC OR WIND-DRIVEN RAIN TO PREVENT WATER INTRUSION INTO BUILDINGS.

NOTES:

1. USE FEATURES SUCH AS OVERHANGS AND RECESSES, AND FLASHINGS INTEGRATED WITH A DRAINAGE PLANE.

2. USE NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST TWO FEET AROUND AND PERPENDICULAR TO SUCH OPENINGS.

SECTION 5.408
CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE DIVERSION. ESTABLISH A CONSTRUCTION WASTE MANAGEMENT PLAN FOR THE DIVERTED MATERIALS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT.

5.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN FOR APPROVAL BY THE ENFORCEMENT AGENCY THAT:

1. IDENTIFIES THE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.

2. DETERMINES IF MATERIALS WILL BE SORTED ON-SITE OR MIXED.

3. IDENTIFIES DIVERSION FACILITIES WHERE MATERIAL COLLECTED WILL BE TAKEN.

4. SPECIFIES THAT THE AMOUNT OF MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

5.408.2.1 DOCUMENTATION. DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTION 5.408.2, ITEMS 1 THRU 4. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.

EXCEPTION: [DSA-SS] JOBSITES IN AREAS WHERE THERE IS NO MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C&D) PROCESSOR OR RECYCLING FACILITIES WITHIN A FEASIBLE HAUL DISTANCE SHALL MEET THE REQUIREMENTS AS FOLLOWS:

1. THE ENFORCEMENT AGENCY HAVING JURISDICTION SHALL AT ITS DISCRETION, ENFORCE THE WASTE MANAGEMENT PLAN AND MAKE EXCEPTIONS AS DEEMED NECESSARY.

5.408.2.2 ISOLATED JOBSITES. THE ENFORCING AGENCY MAY MAKE EXCEPTIONS TO THE REQUIREMENTS OF THIS SECTION WHEN JOBSITES ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES THE DIVERSION FACILITY.

NOTES:

1. SAMPLE FORMS FOUND IN CHAPTER 8 MAY BE USED TO ASSIST IN DOCUMENTING COMPLIANCE WITH THE WASTE MANAGEMENT PLAN.

2. MIXED CONSTRUCTION AND DEMOLITION DEBRIS (C&D) PROCESSORS CAN BE LOCATED AT THE CALIFORNIA DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CALRECYC1E).

5.408.3 CONSTRUCTION WASTE REDUCTION OF AT LEAST 50 PERCENT. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50 PERCENT THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS, OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. CALCULATE THE AMOUNT MATERIALS DIVERTED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

EXCEPTIONS:

1. EXCAVATED SOIL AND LAND-CLEARING DEBRIS

2. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS ITEM DO NOT EXIST.

5.408.4 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED.

SECTION 5.410
BUILDING MAINTENANCE AND OPERATION

5.410.1 RECYCLING BY OCCUPANTS. PROVIDE READILY ACCESSIBLE AREAS THAT SERVE THE ENTIRE BUILDING AND ARE IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS AND METALS.

5.410.1.1 SAMPLE ORDINANCE. SPACE ALLOCATION FOR RECYCLING AREAS SHALL COMPLY WITH CHAPTER 18, PART 3, DIVISION 30 OF THE PUBLIC RESOURCES CODE. CHAPTER 18 IS KNOWN AS THE CALIFORNIA SOLID WASTE REUSE AND RECYCLING ACCESS ACT OF 1991 (ACT).

NOTE: A SAMPLE ORDINANCE FOR USE BY LOCAL AGENCIES MAY BE FOUND IN APPENDIX A OF THE DOCUMENT AT THE CALRECYCLE'S WEB SITE.

5.410.2 COMMISSIONING. FOR NEW BUILDINGS 10,000 SQUARE FEET AND OVER, BUILDING COMMISSIONING SHALL BE INCLUDED IN THE DESIGN AND CONSTRUCTION PROCESSES OF THE BUILDING PROJECT TO VERIFY THAT THE BUILDING SYSTEMS AND COMPONENTS MEET THE OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS. COMMISSIONING SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION BY TRAINED PERSONNEL WITH EXPERIENCE ON PROJECTS OF COMPARA-BLE SIZE AND COMPLEXITY. COMMISSIONING REQUIREMENTS SHALL INCLUDE:

1. OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS
2. BASIS OF DESIGN
3. COMMISSIONING MEASURES SHOWN IN THE CONSTRUCTION DOCUMENTS
4. COMMISSIONING PLAN
5. FUNCTIONAL PERFORMANCE TESTING
6. DOCUMENTATION AND TRAINING
7. COMMISSIONING REPORT

ALL BUILDING SYSTEMS AND COMPONENTS COVERED BY TITLE 24, PART 6, AS WELL AS PROCESS EQUIPMENT AND CONTROLS, AND RENEWABLE ENERGY SYSTEMS SHALL BE INCLUDED IN THE SCOPE OF THE COMMISSIONING REQUIREMENTS.

5.410.2.1 OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS (OPR). THE EXPECTATIONS AND REQUIREMENTS OF THE BUILDING APPROPRIATE TO ITS PHASE SHALL BE DOCUMENTED BEFORE THE DESIGN PHASE OF THE PROJECT BEGINS. THIS DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

1. ENVIRONMENTAL AND SUSTAINABILITY GOALS
2. ENERGY EFFICIENCY GOALS
3. INDOOR ENVIRONMENTAL QUALITY REQUIREMENTS
4. PROJECT PROGRAM, INCLUDING FACILITY FUNCTIONS AND HOURS OF OPERATION, AND NEED FOR AFTER HOURS OPERATION
5. EQUIPMENT AND SYSTEMS EXPECTATIONS
6. BUILDING OCCUPANT AND OPERATION AND MAINTENANCE (O&M) PERSONNEL EXPECTATIONS

5.410.2.2 BASIS OF DESIGN (BOD). A WRITTEN EXPLANATION OF HOW THE DESIGN OF THE BUILDING SYSTEMS MEETS THE OPR SHALL BE COMPLETED AT THE DESIGN PHASE OF THE BUILDING PROJECT, AND UPDATED AS NECESSARY DURING THE DESIGN AND CONSTRUCTION PHASES. THE BASIS OF DESIGN DOCUMENT SHALL COVER THE FOLLOWING SYSTEMS:

1. HEATING, VENTILATION, AIR CONDITIONING (HV AC) SYSTEMS AND CONTROLS
2. INDOOR LIGHTING SYSTEM AND CONTROLS
3. WATER HEATING SYSTEM
4. RENEWABLE ENERGY SYSTEMS
5. LANDSCAPE IRRIGATION SYSTEMS
6. WATER REUSE SYSTEMS

5.410.2.3 COMMISSIONING PLAN. PRIOR TO PERMIT ISSUANCE A COMMISSIONING PLAN SHALL BE COMPLETED TO DOCUMENT HOW THE PROJECT WILL BE COMMISSIONED AND SHALL BE STARTED DURING THE DESIGN PHASE OF THE BUILDING PROJECT. THE COMMISSIONING PLAN SHALL INCLUDE THE FOLLOWING:

1. GENERAL PROJECT INFORMATION
2. COMMISSIONING GOALS
3. SYSTEMS TO BE COMMISSIONED. PLANS TO TEST SYSTEMS AND COMPONENTS SHALL INCLUDE:
 - A. AN EXPLANATION OF THE ORIGINAL DESIGN INTENT
 - B. EQUIPMENT AND SYSTEMS TO BE TESTED, INCLUDING THE EXTENT OF TESTS
 - C. FUNCTIONS TO BE TESTED
 - D. CONDITIONS UNDER WHICH THE TEST SHALL BE PERFORMED E. MEASURABLE CRITERIA FOR ACCEPTABLE PERFORMANCE
4. COMMISSIONING TEAM INFORMATION
5. COMMISSIONING PROCESS ACTIVITIES, SCHEDULES AND RESPONSIBILITIES. PLANS FOR THE COMPLETION OF COMMISSIONING REQUIREMENTS LISTED IN SECTIONS 5.410.2.4 THROUGH 5.410.2.6 SHALL BE INCLUDED

5.410.2.4 FUNCTIONAL PERFORMANCE TESTING. FUNCTIONAL PERFORMANCE TESTS SHALL DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM AND SYSTEM-TO-SYSTEM INTERFACE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. FUNCTIONAL PERFORMANCE TESTING REPORTS SHALL CONTAIN INFORMATION ADDRESSING EACH OF THE BUILDING COMPONENTS TESTED, THE TESTING METHODS UTILIZED, AND INCLUDE ANY READINGS AND ADJUSTMENTS MADE.

5.410.2.5 DOCUMENTATION AND TRAINING. A SYSTEMS MANUAL AND SYSTEMS OPERATIONS TRAINING ARE REQUIRED, INCLUDING OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS IN CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

5.410.2.5.1 SYSTEMS MANUAL. DOCUMENTATION OF THE OPERATIONAL ASPECTS OF THE BUILDING SHALL BE COMPLETED WITHIN THE SYSTEMS MANUAL AND DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE AND FACILITIES OPERATOR. THE SYSTEMS MANUAL SHALL INCLUDE THE FOLLOWING:

1. SITE INFORMATION, INCLUDING FACILITY DESCRIPTION, HISTORY AND CURRENT REQUIREMENTS
2. SITE CONTACT INFORMATION
3. BASIC OPERATIONS AND MAINTENANCE, INCLUDING GENERAL SITE OPERATING PROCEDURES, BASIC TROUBLESHOOTING, RECOMMENDED MAINTENANCE REQUIREMENTS, SITE EVENTS LOG
4. MAJOR SYSTEMS
5. SITE EQUIPMENT INVENTORY AND MAINTENANCE NOTES
6. A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE
7. OTHER RESOURCES AND DOCUMENTATION

5.410.2.5.2 SYSTEMS OPERATIONS TRAINING. THE TRAINING OF THE APPROPRIATE MAINTENANCE STAFF FOR EACH EQUIPMENT TYPE AND/OR SYSTEM SHALL BE DOCUMENTED IN THE COMMISSIONING REPORT AND SHALL INCLUDE THE FOLLOWING:

1. SYSTEM/EQUIPMENT OVERVIEW (WHAT IT IS, WHAT IT DOES AND WITH WHAT OTHER SYSTEMS AND/OR EQUIPMENT IT INTERFACES)
2. REVIEW AND DEMONSTRATION OF SERVICING/PREVENTIVE MAINTENANCE
3. REVIEW OF THE INFORMATION IN THE SYSTEMS MANUAL
4. REVIEW OF THE RECORD DRAWINGS ON THE SYSTEM/ EQUIPMENT

5.410.2.6 COMMISSIONING REPORT. A COMPLETE REPORT OF COMMISSIONING PROCESS ACTIVITIES UNDERTAKEN THROUGH THE DESIGN, CONSTRUCTION AND REPORTING RECOMMENDATIONS FOR POSTCONSTRUCTION PHASES OF THE BUILDING PROJECT SHALL BE COMPLETED AND PROVIDED TO THE OWNER OR REPRESENTATIVE.

5.410.4 TESTING AND ADJUSTING. TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR BUILDINGS LESS THAN 10,000 SQUARE FEET.

5.410.4.2 SYSTEMS. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE AT A MINIMUM, AS APPLICABLE TO THE PROJECT:

1. HV AC SYSTEMS AND CONTROLS
2. INDOOR AND OUTDOOR LIGHTING AND CONTROLS
3. WATER HEATING SYSTEMS
4. RENEWABLE ENERGY SYSTEMS
5. LANDSCAPE IRRIGATION SYSTEMS
6. WATER REUSE

5.410.4.3 PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH INDUSTRY BEST PRACTICES AND APPLICABLE STANDARDS ON EACH SYSTEM AS DETERMINED BY THE BUILDING OFFICIAL.

5.410.4.3.1 HVAC BALANCING. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; OR ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE BUILDING OFFICIAL.

5.410.4.4 REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

5.410.4.5 OPERATION AND MAINTENANCE (O & M) MANUAL. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

5.410.4.5.1 INSPECTIONS AND REPORTS. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.

SECTION 5.504
POLLUTANT CONTROL

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation, or during storage on the construction site and until final startup of the heating and cooling equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust or debris which may collect in the system.

5.504.4 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.4.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

5.504.4.1 ADHESIVE VOC LIMIT
Less Water and Less Exempt Compounds in Grams Per Liter

| ARCHITECTURAL APPLICATIONS | CURRENT VOC LIMIT |
|--|-------------------|
| Indoor carpet adhesives | 50 |
| Carpet pad adhesives | 50 |
| Outdoor carpet adhesives | 150 |
| Wood flooring adhesive | 100 |
| Rubber floor adhesives | 60 |
| Subfloor adhesives | 50 |
| Ceramic tile adhesives | 65 |
| VCT and asphalt tile adhesives | 50 |
| Drywall and panel adhesives | 50 |
| Cove base adhesives | 50 |
| Multipurpose construction adhesives | 70 |
| Structural glazing adhesives | 100 |
| Single-ply roof membrane adhesives | 250 |
| Other adhesive not specifically listed | 50 |
| SPECIALTYAPPLICATIONS | |
| PVC welding | 510 |
| CPVC welding | 490 |
| ABS welding | 325 |
| Plastic cement welding | 250 |
| Adhesive primer for plastic | 550 |
| Contact adhesive | 80 |
| Special purpose contact adhesive | 250 |
| Structural wood member adhesive | 140 |
| Top and trim adhesive | 250 |
| SUBSTRATE SPECIFIC APPLICATIONS | |
| Metal to metal | 30 |
| Plastic foams | 50 |
| Porous material (except wood) | 50 |
| Wood | 30 |
| Fiberglass | 80 |

1. If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.

2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168, <http://www.arb.ca.gov/DRDB/SC/CURHTMLR1168.PDF>.



| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 5-12-10 |
| JOB NO. | 0345 |
| FILE NO. | 034531 |



| | | |
|-------|----|-------|
| SHEET | GC | SHEET |
| OF | | |

NONRESIDENTIAL MANDATORY MEASURES

TABLE 5.504.4.2

| SEALANT VOC LIMIT | |
|---|-------------------|
| Less Water and Less Exempt Compounds in Grams per Liter | CURRENT VOC LIMIT |
| Architectural | 250 |
| Marine deck | 760 |
| Nonmembrane roof | 300 |
| Roadway | 250 |
| Single-ply roof membrane | 450 |
| Other | 420 |
| SEALANT PRIMERS | |
| Architectural | |
| Nonporous | 250 |
| Porous | 775 |
| Modified bituminous | 500 |
| Marine deck | 760 |
| Other | 750 |

Note: For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management District Rule 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520, and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{1,2}
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds

| COATING CATEGORY | EFFECTIVE 1/1/2019 | EFFECTIVE 1/1/2019 |
|---|--------------------|--------------------|
| Flat coatings | 50 | |
| Nonflat coatings | 100 | |
| Nonflat high gloss coatings | 150 | |
| Specialty Coatings | | |
| Aluminum roof coatings | 400 | |
| Basement specialty coatings | 400 | |
| Bituminous roof coatings | 50 | |
| Bituminous roof primers | 350 | |
| Bond breakers | 350 | |
| Concrete curing compounds | 350 | |
| Concrete/masonry sealers | 100 | |
| Driveway sealers | 50 | |
| Dry fix coatings | 150 | |
| Flux finishing coatings | 350 | |
| Flux resistive coatings | 350 | |
| Floor coatings | 100 | |
| Form-release compounds | 250 | |
| Graphic arts coatings (sign paints) | 500 | |
| High-temperature coatings | 420 | |
| Industrial maintenance coatings | 250 | |
| Low solids coatings ³ | 120 | |
| Magnesium cement coatings | 450 | |
| Mastic texture coatings | 100 | |
| Metallic pigmented coatings | 500 | |
| Multicolor coatings | 250 | |
| Pre-treatment wash primers | 420 | |
| Primers, sealers and undercoats | 100 | |
| Reactive penetrating sealers | 350 | |
| Recycled coatings | 250 | |
| Roof coatings | 50 | |
| Rust preventative coatings | 400 | 250 |
| Shellacs: | | |
| Clear | 730 | |
| Orange | 350 | |
| Specialty primers, sealers and undercoats | 350 | 100 |
| Stains | 250 | |
| Stone consolidants | 450 | |
| Swimming pool coatings | 340 | |
| Traffic marking coatings | 100 | |
| Tub and tile refinish coatings | 420 | |
| Waterproofing membranes | 250 | |
| Wood coatings | 275 | |
| Wood preservatives | 350 | |
| Zinc-rich primers | 340 | |

1. Grams of VOC per liter of coating, including water and including exempt compounds.

2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.

3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources Board.

NONRESIDENTIAL MANDATORY MEASURES

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the following:

1. Carpet and Rug Institute's Green Label Plus Program.
2. California Department of Public Health Standard Practice for the testing of VOCs (Specification 01350).
3. NSF/ANSI 140 at the Gold level.
4. Scientific Certifications Systems Sustainable Choice.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 5.504.4.5.

| TABLE 5.504.4.5 FORMALDEHYDE EMISSIONS ¹ Maximum Formaldehyde Emissions in Parts per Million. | | | | |
|--|---------------|-------------|-------------|------|
| PRODUCT | CURRENT LIMIT | JAN 1, 2012 | JUL 1, 2012 | |
| Hardwood plywood veneer core | 0.05 | | | |
| Hardwood plywood composite core | 0.08 | | | 0.05 |
| Particle board | 0.09 | | | |
| Medium density fiberboard | 0.11 | | | |
| Thin medium density fiberboard ² | 0.21 | 0.13 | | |

1. Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E 1333-96 (2002). For additional information, see *California Code of Regulations*, Title 17, Sections 93120 through 93120.12.

2. Thin medium density fiberboard has a maximum thickness of eight millimeters.

5.504.4.5.1 Early compliance. Reserved.

5.504.4.5.2 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications
2. Chain of custody certifications
3. Other methods acceptable to the enforcing agency

5.504.4.6 Resilient flooring systems. For 50 percent of floor area receiving resilient flooring, install resilient flooring complying with the VOC-emission limits defined in the 2009 Collaborative for High Performance Schools (CHPS) criteria and listed on its Low-emitting Materials List (or Product Registry) or certified under the Resilient Floor Covering Institute (RFCI) FloorScore program.

[DSA-SS] Documentation shall be provided that verifies that finish materials are certified to meet the pollutant emission limits.

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

Notes:

1. CHPS Low-emitting Materials List may be found at www.chpreistry.com/live or <http://www.chps.net/dev/Drupal/node/381>.

2. [DSA-SS] Products certified under the FloorScore program may be found at: http://www.rfci.com/int_FS-ProdCert.htm.

3. Products certified under the Greenguard Children & Schools program and compliant with CHPS criteria may be found at: <http://www.greenguard.org/Default.aspx?tabid=135>.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum Efficiency Reporting Value (MERV) of 8.

5.504.7 Environmental tobacco smoke (ETS) control. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and in buildings; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505
INDOOR MOISTURE CONTROL

5.505.1 Indoor moisture control. Buildings shall meet or exceed the provisions of *California Building Code*, CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not applicable to low-rise residential occupancies, see Section 5.407.2 of this code.

PASQUINI
ENGINEERING
INCORPORATED

903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (661) 328-9600
Fax: (661) 328-9050

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |
| | |
| | |

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 5-12-10 |
| JOB NO. | 6345 |
| FILE NO. | 634531 |



SHEET

GC1

OF

SHEET

MECHANICAL ABBREVIATIONS

| | | | |
|----------|----------------------------------|----------|---|
| & / | AND | HB | HOSE BIBB |
| ▲ | ANGLE | HC | HANDICAPPED |
| AT | AT | HD | HEAD |
| CL | CENTER LINE | HDWE | HARDWARE |
| CL | DIAMETER OR ROUND | HCH | HORIZONTAL |
| (E) | EXISTING | HP | HORSEPOWER |
| (N) | NEW | HW | HOT WATER |
| ⊥ | PERPENDICULAR | HWR | HOT WATER RETURN |
| ⊥ | POUND OR NUMBER | HWS | HOT WATER SUPPLY |
| ⊥ | THERMOSTAT | HVAC | HEATING, VENTILATING, AIR CONDITIONING |
| A/C | AIR CONDITIONING | ID | INSIDE DIAMETER (DIM.) |
| AP | ACCESS PANEL | INSUL | INSULATION |
| ABV | ABOVE | INT | INTERIOR |
| ADJ | ADJUSTABLE | LAV | LAVATORY |
| AFF | ADJUSTABLE FINISH FLOOR | LBS | POUNDS |
| AE | ADJUSTABLE EXTRACTOR | LPG | LIQUID PETROLEUM GAS |
| AGGR | AGGREGATE | | |
| ALUM | ALUMINUM | | |
| APPROX | APPROXIMATE | | |
| APPT | APPOINTMENTS | | |
| ARCH. | ARCHITECTURAL | MACH | MACHINE |
| ARI | AMERICAN REFRIGERATION INSTITUTE | MATL | MATERIAL |
| ASPH | ASPHALT | MAX | MAXIMUM |
| ASST | ASSISTANT | MBH | BTU PER HOUR (THOUSANDS) |
| AUTO. | AUTOMATIC | MCA | MECHANICAL |
| | | MECH | METAL |
| BD | BALANCING DAMPER | MTL | MANUFACTURER |
| BDD | BACKDRAFT DAMPER | MFGR | MANHOLE |
| (BP) | BELOW FINISH FLOOR | MH | MINIMUM |
| (BO) | BELOW FINISH GRADE | MIN | MINIMUM |
| BLDG | BUILDING | MISC | MISCELLANEOUS |
| BLKG | BLOCKING | MUA | MAKE UP AIR |
| BM | BEAM | | |
| BTUH | BRITISH THERMAL UNIT/ HOUR | (N) | NEW |
| BOT | BOTTOM | NIC | NOT IN CONTRACT |
| BP | BY-PASS TIMER | NO. or # | NUMBER |
| | | NOM | NOMINAL |
| | | NTS | NOT TO SCALE |
| CA | COMBUSTION AIR | | |
| CAP | CAPACITY | | |
| CD | CONDENSATE DRAIN | OA | OVERALL |
| CFD | CEILING FIRE DAMPER | OBD | OPPOSED BLADE DAMPER |
| CFM | CUBIC FEET PER MINUTE | OC | ON CENTER |
| CHW | CHILLED WATER | OSA | OUTSIDE AIR |
| CHWR | CHILLED WATER RETURN | OVHD | OVERHEAD |
| CHWS | CHILLED WATER SUPPLY | | |
| CJ | CONTROL JOINT | | |
| CLG | CEILING | PTN | PARTITION |
| CLR | CEILING | PHYS | PHYSICAL |
| CLR | CLEAR | PR | PRESSURE RELIEF |
| CO | CLEANOUT | PVC | POLY-VINYL CHLORIDE PIPE |
| COLUM | COLUMN | PLAS | PLASTER |
| COMP | COMPRESSED | PLYWD | PLYWOOD |
| CONC | CONCRETE | POC | POINT OF CONNECTION |
| CONF | CONFERENCE | PREFAB | PREFABRICATED |
| CONN | CONNECTION | PREP | PREPARATION |
| CONST | CONSTRUCTION | PSI | POUNDS PER SQUARE INCH |
| CONT | CONTINUOUS | PW | PROCESSED WATER |
| CORR | CORRIDOR | | |
| CSE | CALIFORNIA SEASONAL EFFICIENCY | | |
| CKS | COUNTERSUNK | R | RISER |
| CTR | CENTER | RA | RETURN AIR |
| CV | CHECK VALVE | RAD. | RADIUS |
| | | RAG | RETURN AIR GRILLE |
| | | REF | REFLECTED |
| | | REIN | REINFORCED |
| | | REQD | REQUIRED |
| | | RM | ROOM |
| | | RND | ROUND |
| DBL | DOUBLE | | |
| DB | DRY BUILD (TEMPERATURE) | | |
| DEPT | DEPARTMENT | | |
| DET | DETAIL | | |
| DH | DRINKING FOUNTAIN | | |
| DHW | DOMESTIC HOT WATER | | |
| DHWR | DOMESTIC HOT WATER RETURN | | |
| DIA or Ø | DIAMETER | S | SOUTH |
| DIR | DIRECTOR | SA | SUPPLY AIR |
| DN | DOWN | SAD | SUPPLY AIR DIFFUSER |
| DR | DOOR | SAG | SUPPLY AIR GRILLE |
| DS | DOWNSPOUT | SAR | SUPPLY AIR REGISTER |
| DSP | DRY STANDPIPE | SCHD | SCHEDULE |
| DTR | DUCT THRU ROOF | SD | SMOKE DETECTOR |
| DTW | DUCT THRU WALL | SEER | SEASONAL ENERGY EFFICIENCY |
| DWG | DRAWING | SECT. | SECTION |
| | | SHT | SHEET |
| | | SIM | SIMILAR |
| | | SO | SQUARE |
| E | EAST | SPEC | SPECIFICATION |
| EA | EXHAUST AIR | SP | STATIC PRESSURE |
| EAG | EXHAUST AIR GRILLE | SOV | SHUT-OFF VALVE |
| EDB | ENTERING DRY BULB | SS | SERVICE SINK |
| EER | ENERGY EFFICIENCY RATIO | SS | STAINLESS STEEL |
| ELEC | ELECTRICAL | STD | STANDARD |
| ELEV | ELEVATION | STL | STEEL |
| EMER | EMERGENCY | STOR | STORAGE |
| ENCL | ENCLOSURE | STRUCT | STRUCTURAL |
| EP | ELECTRICAL PANEL | SUPV | SUPERVISOR |
| EQ | EQUAL | SUSP | SUSPENDED |
| EQUIP | EQUIPMENT | S&W | SOIL & WASTE |
| (E) | EXISTING | | |
| ESP | EXTERNAL STATIC PRESSURE | | |
| EWB | ENTERING WET BULB | TC | TOP OF CURB |
| EXPO. | EXPOSED | TEL | TELEPHONE |
| EXT | EXTERIOR | TER | TERRAZZO |
| | | TG | TRANSFER GRILLE |
| | | THK | THICK |
| FA | FIRE ALARM | TOC | TOP OF CONCRETE |
| FC | FLEXIBLE CONNECTION | TP | TRAP PRIMER |
| FD | FIRE DAMPER | TRANS | TRANSCRIPTION |
| FDN | FOUNDATION | TREAT. | TREATMENT |
| FE | FIRE EXTINGUISHER | TYP | TYPICAL |
| FEC | FIRE EXTINGUISHER CABINET | TV | TEMPERING VALVE |
| FHC | FIRE HOSE CAB. | | |
| FHMS | FLAT HEAD METAL SCREW | | |
| FIN. | FINISH | UL | UNDERWRITERS LABORATORIES |
| FLA | FULL LOAD AMPS | UON | UNLESS OTHERWISE NOTED |
| FLASH. | FLASHING | UR | URINAL |
| FM | FIRE MAIN | | |
| FOC | FACE OF CONCRETE | | |
| FOF | FACE OF FINISH | | |
| FPM | FEET PER MINUTE | V | VENT |
| FRPF | FIREPROOFING | VD | VOLUME DAMPER |
| FSC | FAN SPEED CONTROL | VTR | VENT THRU ROOF |
| FSD | FIRE/SMOKE DAMPER | VSAD | VARIABLE SUPPLY AIR DIFFUSER |
| FSL | FIRE SPRINKLER LINE | | |
| FTR | FLUE THRU ROOF | | |
| FUNC | FUNCTION | W | WASTE LINE |
| FURR | FURRING | W/ | WITH |
| FUT | FUTURE | WB | WET BULB TEMPERATURE |
| | | WFD | WALL FIRE DAMPER |
| | | WH | WATER HEATER |
| | | WHA | WATER HAMMER ARRESTOR |
| GA | GAUGE OR GAGE | W/O | WITHOUT |
| GALV | GALVANIZED | WMF | WASHING MACHINE FITTING |
| GEN | GENERAL | WP | WATERPROOF |
| GL | GALVANIZED IRON | WT | WEIGHT |
| G | GLASS | | |
| GPM | GALLONS PER MINUTE | | |
| GR | GRADE | YD | YARD |
| GRD | GROUND | | |
| G | GAS LINE | | |

SYMBOLS

| SYMBOL | DESCRIPTION |
|--------|---|
| | AIR CONDITION UNIT |
| | SUPPLY AIR CEILING DIFFUSER |
| | SUPPLY AIR CEILING DIFFUSER |
| | SUPPLY VARIABLE AIR CEILING DIFFUSER HEAT & COOL |
| | RETURN AIR CEILING REGISTER |
| | EXHAUST AIR CEILING REGISTER |
| | SUPPLY AIR WALL DIFFUSER |
| | RETURN AIR WALL REGISTER |
| | EXHAUST AIR WALL REGISTER |
| | TRANSFER GRILLE |
| | DUCTWORK (RECTANGULAR) |
| | DUCTWORK (ROUND) |
| | LINED DUCTWORK |
| | TURNIG VANE |
| | FLEXIBLE DUCTWORK |
| | FLEXIBLE CONNECTION |
| | MANUAL AIR VOLUME DAMPER |
| | FIRE DAMPER |
| | SMOKE FIRE DAMPER |
| | OUTSIDE AIR INTAKE MIN. CFM |
| | ROOM THERMOSTAT - SUBSCRIPT INDICATES UNIT CONTROL |
| | BYPASS TIMER |
| | TIME CLOCK |
| | ON/OFF SWITCH |
| | FAN SPEED CONTROL |
| | DUCT SMOKE DETECTOR |
| | POINT OF CONNECTION |
| | CEILING EXHAUST FAN |
| | FURNACE (VERTICAL) |
| | FURNACE (HORIZONTAL) |
| | CONDENSING UNIT |

SECTION 1
BASIC MECHANICAL MATERIALS AND METHODS

PART 1 - GENERAL

- 1.1 SUMMARY
- A. Labor, materials, tools, and services for a complete installation of equipment and system contained in the Contract Documents.
- B. Principal features of the work included are:
1. Heating, ventilating, air conditioning systems, controls, and mechanical system insulation.
 2. Roof curbs for HVAC systems, intake hoods, louvers, supply fans, and relief vents furnished and set under this Division.
 3. Refrigerant piping, connections, refrigerant and refrigerant charges.
 4. Excavating and backfilling for mechanical work; coordinate with appropriate trade.
 5. Anchor bolts, sleeves, supports and similar items to be built into concrete or masonry.
 6. Preparation for testing and balance of mechanical systems and correcting deficiencies.
 7. Preparation and submittal of shop drawing and product data.
 8. Maintaining a record set of blue line prints and making them to indicate locations of concealed items, and deviations made to suit conditions and production of mechanical as-built (record) drawings.

- 1.2 JOB CONDITIONS
- A. Submittal of bid implies bidder has read applicable paragraphs of the specifications and will be bound by their conditions.
- 1.3 LOCAL CONDITIONS
- A. Conform with local conditions. Coordinate with local utilities on size of utility service.
- 1.4 INTENT
- A. The contract documents (drawings and specifications) describe the mechanical work of this project any items mentioned in one part shall be as binding as though mentioned in both.
- B. The contract documents form a guide for a complete mechanical installation. Where an item is reasonably necessary but not specifically mentioned, such as duct hangers or transitions, piping offsets, drains, etc., for a complete system, provide same.
- C. Mechanical layouts indicated on drawings are diagrammatic only. Exact locations of ducts, and equipment shall be governed by the drawings of related trades.

- 1.5 DEVIATIONS
- A. No deviations from specifications and drawings shall be made without full knowledge and written consent of Construction Manager.
- B. Should Contractor find, during progress of work, conditions which dictate a modification of any particular requirements, report such item promptly for decision of instructions.

- 1.6 QUALITY ASSURANCE
- A. Comply with applicable local, state and federal codes.
- B. Comply with applicable requirements of recognized industry associations with promulgate standards for the various trades. (see individual sections of division 15)
- C. Employ only qualified journeymen for this work. Employ competent, qualified mechanics to supervise the work.

- 1.7 CODES AND STANDARDS
- A. Perform work specified in Division 15 in accordance with the applicable codes and standards listed below, and such standards that may be specified in other sections, when these specifications are more stringent, they take precedence. In case of conflict, obtain a decision from the Mechanical Engineer.
1. NFPA 54: National Fuel and Gas Code.
 2. NFPA 90A: Fire Protection of Heating, Ventilating and Air Conditioning Systems.
 3. NFPA 101: Life Safety Code.
 4. Applicable State Building Code.
 5. Applicable State Mechanical Code.
 6. Handicapped Code ANSI A117.1 and ADA
 7. Applicable State Energy Code.
 8. AGA: American Gas Association.
 9. ANSI: American National Standards Institute.
 10. ARI: American Refrigeration Institute.
 11. ASHRAE: American Society of Heating, Refrigeration and Air Conditioning Engineers.
 12. ASME: American Society for Mechanical Engineers.
 13. ASTM: American Society for Testing and Materials.
 14. MSS: Manufacturer's Standardization Society of the Valve and Fitting Industry.
 15. NFPA: National Fire Protection Association.
 16. SMACNA: Sheet Metal and Air Conditioning Contractor's National Association.
 17. UL: Underwriters Laboratories, Inc.

- 1.8 COORDINATION
- A. Carefully examine specifications and drawings to be thoroughly familiar with items which require HVAC connections and coordination.
- B. Coordinate with other Divisions to leave proper chases and openings, place outlets, anchors, sleeves, and supports prior to pouring concrete of installation of masonry work.

- 1.9 SUBMITTALS
- A. Submittals are only required for specific items of equipment or material listed in individual sections of these specifications.
- B. Within 15 days after award of contract for this work, submit a list of proposed manufacturers (of equipment or material to be used) for approval. Submit this list before submittal of shop drawings and product data, and obtain approval before submitting required items.
- C. Shop Drawings (not required for Owner furnished equipment).

- 1.10 DELIVERY AND STORAGE
- A. Insofar as possible, deliver items in manufacturer's original unopened packaging. Where that is not practical, cover items with protective materials to keep them from being damaged. Use care in loading, transport, unloading, and storage to keep items from being damaged.

- 1.11 FIRE RATINGS
- A. Materials used anywhere in the work must have NFPA ratings as following:
1. flame spread - not over 25
 2. smoke developed - not over 50
 3. fuel contributed - not over 25
- B. Materials shall be "self Extinguishing".

- 1.12 PERMITS AND FEES
- A. Obtain, pay for, and deliver permits, certification of inspection, and other such items required by the authorities having jurisdiction. Deliver certification to the Construction Manager prior to Final Acceptance of the work. An inspection certificate for each class of work requiring inspection must be submitted prior to or with the final payment invoice. The responsible Trade Contractor must make application for the inspection, coordinate same and pay the required inspection fee.

- 1.13 EXTENDED WARRANTIES
- A. Work furnished under the Contract shall be warranted against defects in workmanship and (Contractor furnished) materials for a period of not less than one (1) year, or as otherwise specified, from the date of final acceptance of the installation. Defects of workmanship developing during this period shall be remedied, and defective material replaced, without additional cost. When defects in a Trade Contractor's work causes damage to the work of the other Trade Contractors, such damage shall be repaired by the Trade Contractor causing damage and work restored to its original condition, at the expense of the Trade Contractor that caused the damage.

GENERAL MECHANICAL NOTES

PART 2 - PRODUCTS

2.1 MATERIALS AND EQUIPMENT

- A. Within the Contract Documents relating to mechanical work, manufacturer's names, catalog numbers, and other proprietary references to materials and equipment are made. Such references are made to establish the standards of quality and type required, and not to limit competition. Acceptable manufacturer's of competitive products are listed in applicable sections as "approved equals". Reasonable requests for substitution or additions to "approved equals" will be considered, but the Mechanical Engineer will be the sole judge of acceptability of items proposed as substitutes.
- B. materials and equipment used in carrying out these specifications shall bear UL or other recognized testing laboratory label when such labels are available.

PART 3 - EXECUTION

- 3.1 LOCATIONS
- A. Mechanical layouts indicated on drawings are diagrammatic. Exact locations of duct, and equipment may vary because of conflicts with work of other trades. Work out conflicts where relocation's will not affect operation or appearance of systems.
- B. Locate equipment requiring periodic servicing so that it is readily accessible. Do not back up service sides to walls, nor place it too close to other equipment to make service impractical. Equipment service clearance shall meet minimum acceptable distance as recommended by equipment manufacturer.

- 3.2 UTILITIES EXCAVATING AND BACKFILLING
- A. Perform trenching, excavating, backfilling for mechanical work in accordance with the appropriate sections and as set forth below
1. perform work necessary for installation of mechanical utilities.
 2. Depth of excavation to provide a minimum of 3' above top of pipe. Excavation to be carried to a depth of at least 6" below bottom of pipe elevation. Fill below pipe (6"), around pipe, and a minimum of 12" above pipe with sand or class "B" crushed stone tamped firm and even. Separate topsoil during excavation. Final layer of dirt (12" minimum) to be topsoil. Trenches to be at least 18" wider than pipe with batter boards placed every 25'. Backfilling shall be done to exclude use of rock or stone above sand or crushed stone.

- 3.3 CUTTING AND PATCHING
- A. Repair or replace routine damage caused by cutting in performance of contract.
- B. Correct unnecessary damage caused due to installation of mechanical work.
- C. Perform repairs with materials which match existing and install in accordance with the appropriate section of these specifications or the best standards of the industry.

- 3.4 CONNECTION TO EQUIPMENT
- A. Connect or install equipment shown on mechanical drawings that require mechanical hookups.

- 3.5 SERVICE OF EQUIPMENT
- A. If equipment is placed in service prior to acceptance of the project, operate equipment strictly in accordance with manufacturer's instructions. Install new filters in equipment prior to owner occupying building
- B. Employ competent, qualified personnel in operation of the equipment.
- C. Perform repairs with materials which match existing and install in accordance with the appropriate section of these specifications or the best standards of the industry.
- D. Open up equipment for inspection as directed by the Superintendent.
- E. Lubricate equipment and perform such other maintenance as required to place it in first class operating condition.

END OF SECTION

SECTION 3
HEATING, VENTILATION AND AIR CONDITIONING

PART 1 - GENERAL

- 1.1 RELATED DOCUMENTS
- A. Refer to drawings and Contract for materials furnished by Owner, installed by Contractor or furnished and installed by Owner.

- 1.2 SCOPE OF WORK
- A. Furnish all labor, supervision, and equipment (unless equipment is specifically noted as "Owner furnished") for the complete installation of heating, ventilation, and air conditioning system together with all necessary auxiliaries and appurtenances.

- 1.3 QUALITY ASSURANCE
- A. Manufacturer's Qualifications - install packaged units, as indicated in the Drawings, in accordance with manufacturer's instructions and requirements. Provide related products and accessories from one manufacturer. Store materials in accordance with manufacturer's recommendation protecting from dirt, moisture, contaminants, and weather.
- B. Codes and standards - Perform all installation in accordance with the latest standards as recognized by ASHRAE, SMACNA and all applicable state and local codes and ordinances.
- C. Workmanship - Experienced, well - trained workers, competent to complete the work as specified, shall perform Labor in conformance with generally accepted trade standards. Install all equipment square and plumb allowing access for proper operation, adjustment and service.

- 1.4 STRUCTURAL AND SPACE CONDITIONS
- A. All work shall avoid obstructions and interference with other trades, preserve headroom and keep openings and passageways clear and free.

- 1.6 VIBRATION AND NOISE
- A. Install each of the various pieces of equipment to operate without objectionable vibration or noise.

- 1.7 CUTTING AND PATCHING
- A. Cutting or patching necessary to permit the installation of any work under this contract shall be the responsibility of this trade. Cutting and patching shall be coordinated with other trades so as not to impact other work

- 1.8 BALANCING AND TESTING
- A. Test and Balance shall be performed by a nationally qualified Test and Balance Company. Balance company shall be an NEBB company.
- B. Contractor shall coordinate testing with the Testing and Balance Company. All systems shall be fully operational prior to commencement of testing. Correct all deficiencies noted in the Test and Balance Report within three days or prior to acceptance of the project.
- C. Assume responsibility for correcting all items determined to be the result of improper or incomplete installation. Extra testing required due to such deficiencies will be at contractor's expense.
- D. Contractor shall be responsible for providing test reports to the local Building and Health Departments as required for Certificate of Occupancy.

PART 2 - PRODUCTS

2.1 AIR CONDITIONING UNITS, FANS AND AIR DEVICES

- A. Shall be as indicated on the Drawings.
- 2.2 DUCTWORK
- A. Rectangular Duct Fabrication, General - Except as otherwise indicated, fabricate rectangular ducts with galvanized sheet steel, in accordance with SMACNA - HVAC Duct Construction Standards, Tables 1 - 3 through 1 - 19, including their associated details. Conform to the requirements in the referenced standard for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

- 2.3 DUCT ACCESS PANELS AND DOORS
- A. In sheet metal work, hollow core double construction of same or heavier gage material as duct in which installed, products by CESCO, Vent Products, Air Balance, or equivalent.
1. Provide Ventlok or approved hinges and latches on all doors; 100 series hinges and latches on low pressure system doors up to 18" maximum dimension, 200 series on larger low pressure system doors and 333 series on high pressure systems.
 2. Construct doors up to 18" maximum dimension with one inch overlap fit and gasket with 3/4" by 1/8" sponge rubber, fit larger doors again 1-1/2" by 1/8" flat stock or angle frame and gasket with 3/4" by 1/8" sponge rubber or felt
 3. Door swing to be opposite of airflow.

- 2.4 DUCTWORK SPECIALTIES
- A. Volume and Splitter Dampers
1. Galvanized sheet metal blade and frame with Ventlok operating hardware.
 2. For accessible dampers, provide #641 self - locking dial regulators and #644 self - locking dial regulators for insulated ductwork, #637 square end bearing, and #635 spring end bearing, as applicable
 3. For inaccessible dampers, provide #666 or #667 concealed locking damper regulator with bearing as above. For static pressures above 3" W.G., provide #640 Hvel dial regulator and #609 Hvel end bearing for accessible dampers.

- B. Multi - Louver Volume Dampers
1. 16 - gauge galvanized steel frame. Opposed, 6" wide, 16 - gauge galvanized steel blades. Concealed linkage in frame.
 2. Titus #AG - 35 - B, Ruskin #CD35/ OBD or equal

- C. Flexible Connections
1. Provide flexible connectors at the discharge and inlet of fans, air handlers, rotating mechanical equipment, and where shown on the Drawings for proper vibration isolation.
 2. Neoprene impregnated glass cloth with 24 - gauge galvanized metal frame. Minimum dimensions - 3" metal, 3" fabric, 3" metal.
 3. Duro Dyne #MFNA, Vent fabrics #Ventglas, Q Industries, consolidated Kinetics, Elgen, or equal.

- D. Backdraft Dampers
1. Provide counterweight type complete with frame, end bearing, counterbalance assembly, blades, and linkage.
 2. Install at outside air intake, exhaust outlets, and where shown on Drawings.
 3. Pacific Air Products #PRD - 100AL, Ruskin #CBS - 7 or equal by American Warning.

- E. Turning Vanes
1. Provide turning vanes at all 90° and 45° square elbows. Turning vanes shall be double wall air foil type constructed and installed as per SMACNA.

- 2.5 DUCT INSULATION
- A. Acceptable Manufacturers: Provide products of the following manufactures, complying with specified requirements. Equivalent products of other manufacturers will be considered.
1. Owens - Corning Fiberglas Corp.
 2. Manville Products Corp.
 3. Certainteed Corp.

- B. All insulation material shall comply with applicable energy conservation regulation for Project location.
- C. Provide composite mechanical insulation (insulation, jacket, coverings, sealers, mastics, and adhesives) with flame - speed index of 25 or less, and smoke - developed index of 50 or less, as tested by ASTM E84 (NFPA 255) method.
- D. Provide staples, bands, wires, tape, anchors, corner angles and similar accessories as recommended by insulation manufacturer for applications indicated.
- E. Provide cements, adhesives, coatings, sealers, protective finishes, and similar compounds as recommended by insulation manufacturer for applications indicated.

- 2.6 REFRIGERANT PIPING
- A. Refrigerant piping to be copper seamless, vacuum packed tubing.
- B. All suction lines to slope back towards condensing unit.
- C. All suction lines heading up towards condensing unit shall have a "P" trap.
- D. Provide sight glass and filter drier on liquid lines at condensing units.
- E. All refrigerant piping underground to be contained in a PVC sleeve.
- F. Refrigerant piping to be sized and installed as per equipment manufacturer's recommendations.

- 2.7 HVAC CONTROLS
- A. Shall be as indicated on the Drawings.
- B. Electric and Electronic HVAC Controls - Components and operating features as indicated on the Drawings.

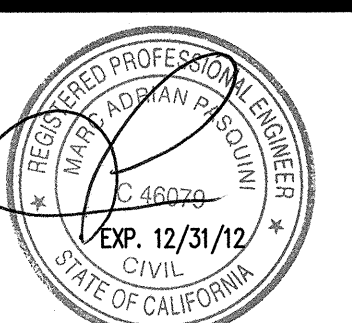
PART 3 - EXECUTION

- 3.1 HVAC SYSTEM INSTALLATION, GENERAL
- Sequence, coordinate, and integrate the various elements of mechanical systems, materials, and equipment. Comply with the following requirements
1. Coordinate mechanical systems, equipment, and materials with other building components.
 2. Verify all dimensions by field measurements.
 3. Arrange for chases, slots, and openings in other building components during progress of construction, to allow for mechanical installations.
 4. Coordinate the installation of required supporting devices and sleeves to be set in poured in place concrete and other structural components, as they are constructed.
 5. Sequence, coordinate, and integrate installations of mechanical materials and equipment for efficient flow of the work. Give particular attention to large equipment requiring positioning prior to closing in the building.
 6. Where mounting heights are not detailed or dimensioned, install systems, materials, and equipment to provide the maximum headroom possible.
 7. Coordinate connection of mechanical systems with exterior underground and overhead utilities and services. Comply with requirements of governing regulations, franchised service companies, and controlling agencies. Provide required connection for each service.
 8. Install systems, materials, and equipment to conform with drawings and specs, to greatest extent possible. Conform to arrangements indicated by the Contract Documents, recognizing that portions of the work are shown only in diagrammatic form. Where coordination requirements conflict with individual system requirements, refer conflict to the Contractor for resolution prior to installation.
 9. Install systems, materials, and equipment level and plumb, parallel and perpendicular to other building systems and components, where installed exposed in finished spaces
 10. Install mechanical equipment to facilitate servicing, maintenance, and repair or replacement of equipment components. As much as practical.

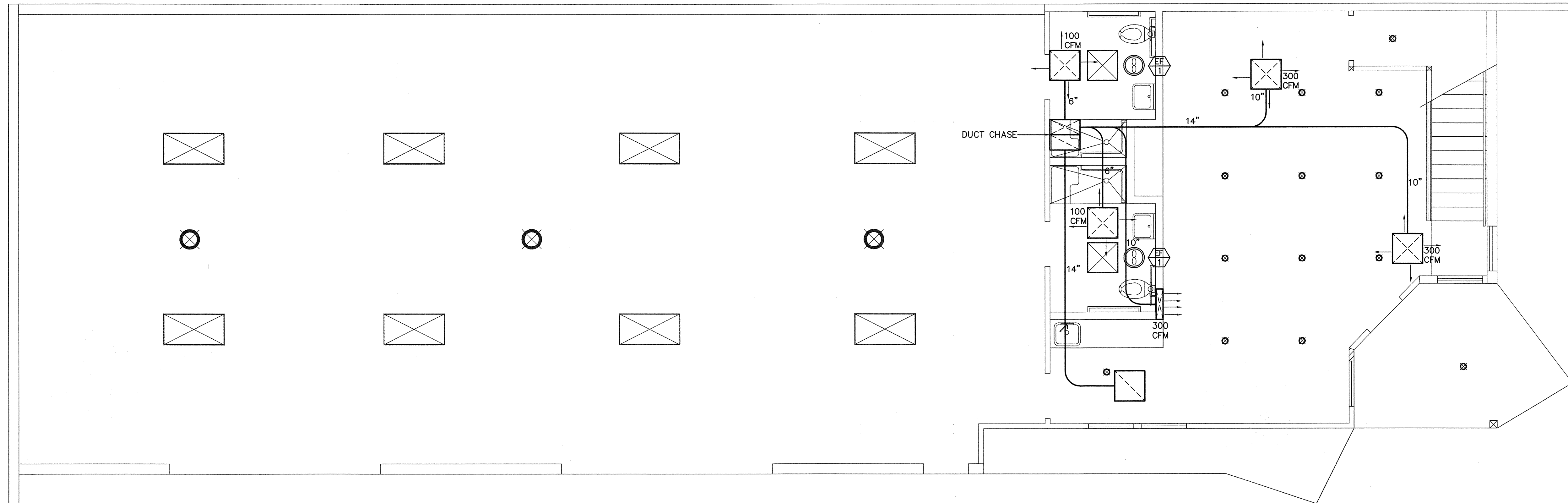
DIANE MIRONOWSKI
OFFICE / WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



SHEET
M-1
OF SHEET



| | | | |
|---------------|---------|--------------------|--------------|
| 0-90 CFM | 600 FPM | .08 LOSS PER 100FT | 6" DIAMETER |
| 90-200 CFM | 600 FPM | .08 LOSS PER 100FT | 8" DIAMETER |
| 200-375 CFM | 700 FPM | .08 LOSS PER 100FT | 10" DIAMETER |
| 375-600 CFM | 800 FPM | .08 LOSS PER 100FT | 12" DIAMETER |
| 600-900 CFM | 875 FPM | .08 LOSS PER 100FT | 14" DIAMETER |
| 900-1200 CFM | 900 FPM | .08 LOSS PER 100FT | 16" DIAMETER |
| 1200-1600 CFM | 900 FPM | .08 LOSS PER 100FT | 18" DIAMETER |
| 1600-2000 CFM | 900 FPM | .08 LOSS PER 100FT | 20" DIAMETER |
| 2000-2400 CFM | 900 FPM | .08 LOSS PER 100FT | 22" DIAMETER |

- NOTES:
 1. ALL ELBOWS TO BE SMOOTH RADIUS
 2. ALL FITTINGS TO BE OF INDUSTRY STANDARD TYPE WITH COEFFICIENTS PUBLISHED IN MANUAL Q

PLUMBING WASTE PLAN

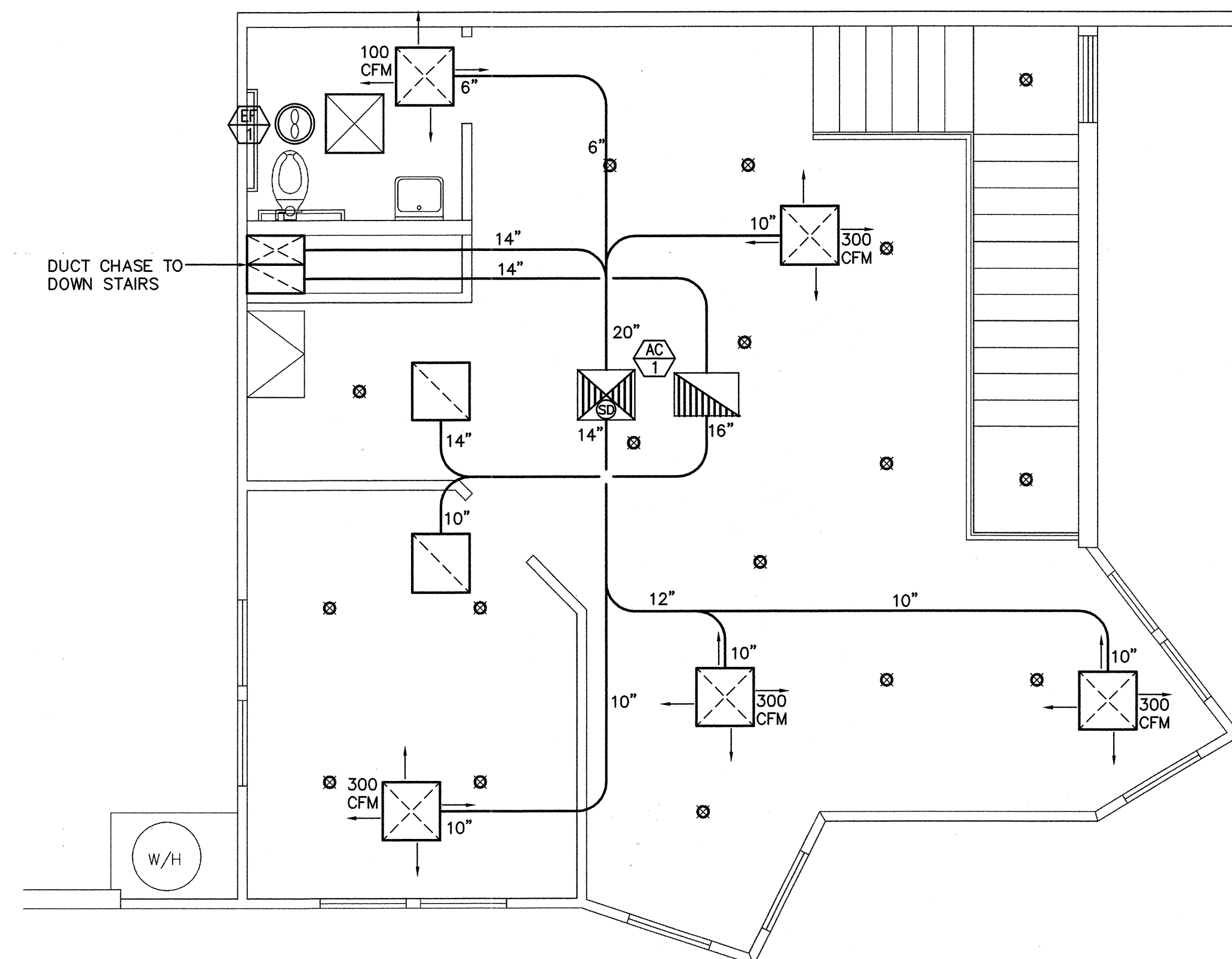
SCALE: 1/4" = 1'-0"

1 DUCT SIZING REQUIREMENTS PER CHAPTER 6 C.M.C.

MECHANICAL SCHEDULE

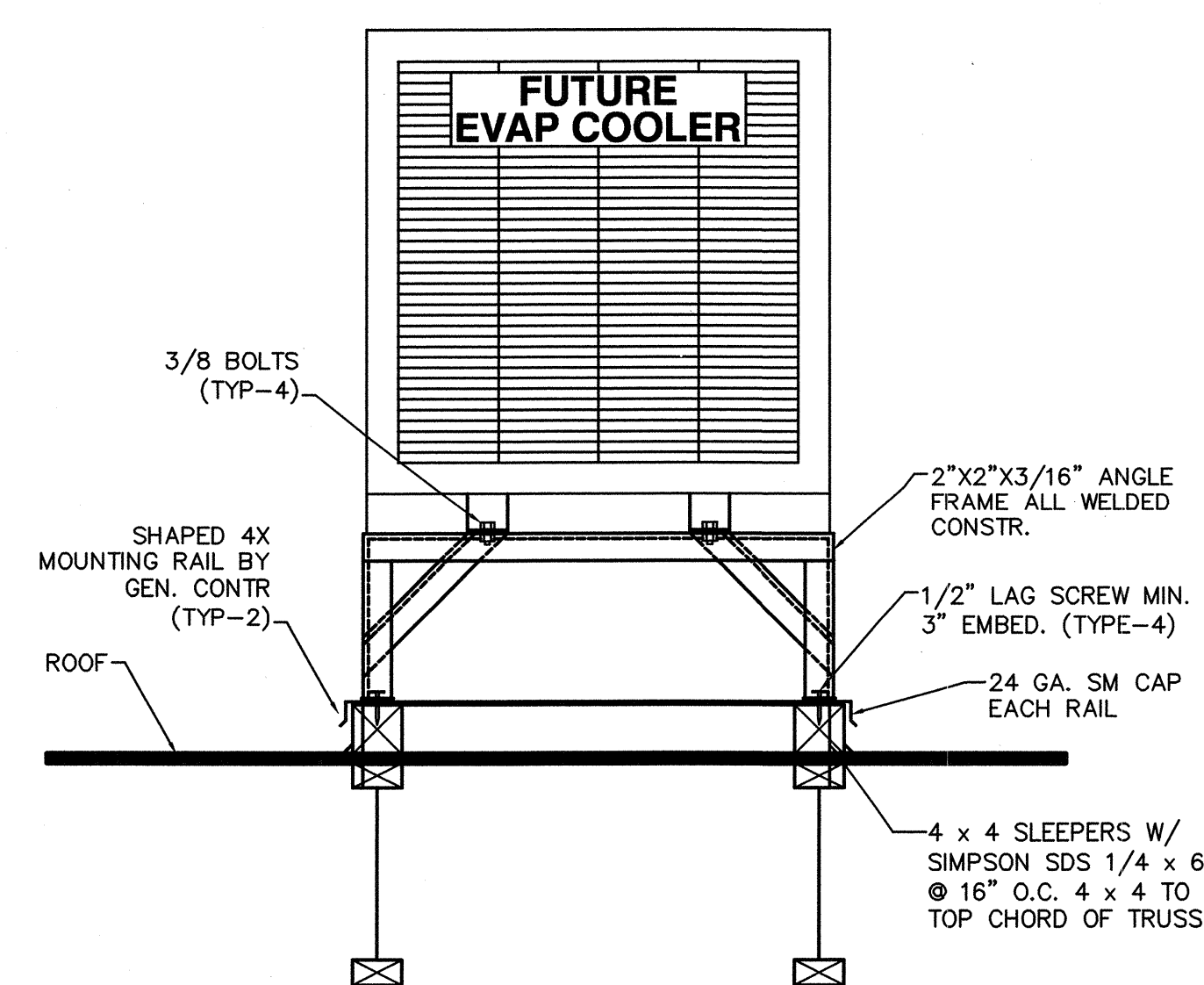
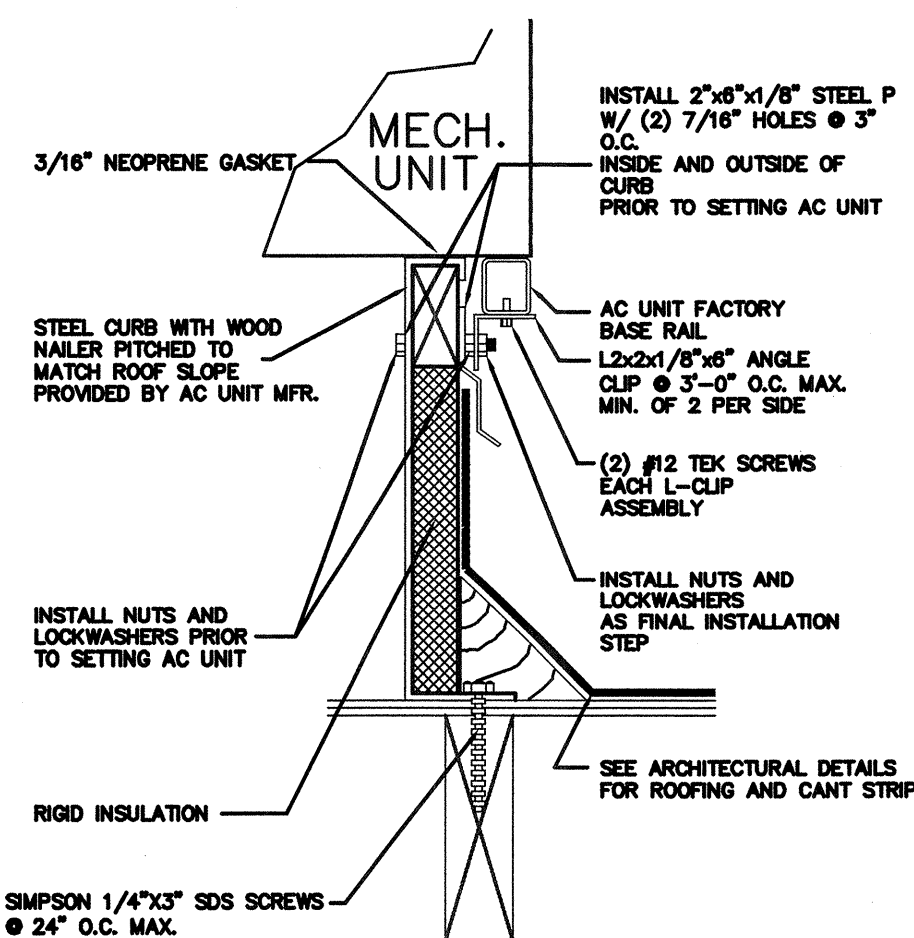
| | |
|------|---|
| AC 1 | TEMPSTAR PACKAGE HEAT PUMP UNIT - 6 TON - MODEL# RHS072HOB 70,000 BTUH COOLING, 67,000 BTUH HEATING, 3000 CFM, 32.8 FLA |
| EF 1 | BROAN MODEL 676 CENTRI MATL ALUM CLG MNT. CFM=100, TSP=0.25WG, HP=50WATTS, RPM=1550, 120V, 1PH, 60CYCLE, BACKDRAFT DAMPER, DISCHARGE GRILLE |

OUTSIDE AND RETURN AIR FILTERS TO COMPLY WITH SECTION 5.504.5.3



2ND FLOOR PLUMBING WASTE PLAN

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



- REGISTERS TO BE ANEMOSTAT OR EQUAL
 SUPPLY T-BAR CEILING-#RMD-FP
 SUPPLY HARD SURFACE-#RMD-S
 SUPPLY SIDE WALL-#S2HO
 RETURN/EXHAUST T-BAR CEILING-#GC50L
 RETURN/EXHAUST HARD SURFACE-#GC50
 RETURN/EXHAUST SIDE WALL-#S3HOD
 LINEAR DIFFUSER #ALD-4
 1. SEE PLAN FOR THROW AND SIZES.
 2. COORDINATE REGISTER LOCATIONS w/LIGHTING AND ALL OTHER TRADES.
 3. ALL REGISTERS TO HAVE OBD's.

REGISTER LEGEND

SIZE CFM SAD - SUPPLY AIR DIFFUSER

SIZE CFM RAG - RETURN AIR REGISTER

SIZE CFM EAG - EXHAUST AIR REGISTER

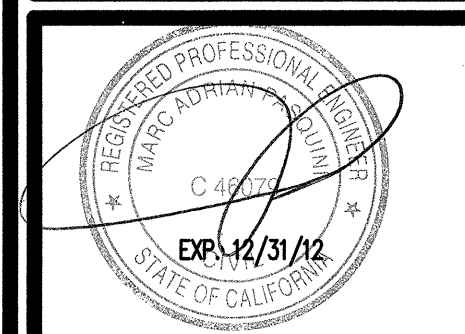
MECHANICAL NOTES

- ALL GRILLES TO BE ANEMOSTAT RMD-FP GC50L
- ALL DUCT WORK TO BE RIGID METAL IN EXPOSED CEILING AREAS
- ALL DUCT WORK TO BE FLEX IN T-BAR AREAS
- SEAL ALL JOINTS W/ HIGH PRESSURE DUCT SEALANT
- INSULATE ALL DUCT WORK W/ 2" FOIL FACE FIBERGLAS

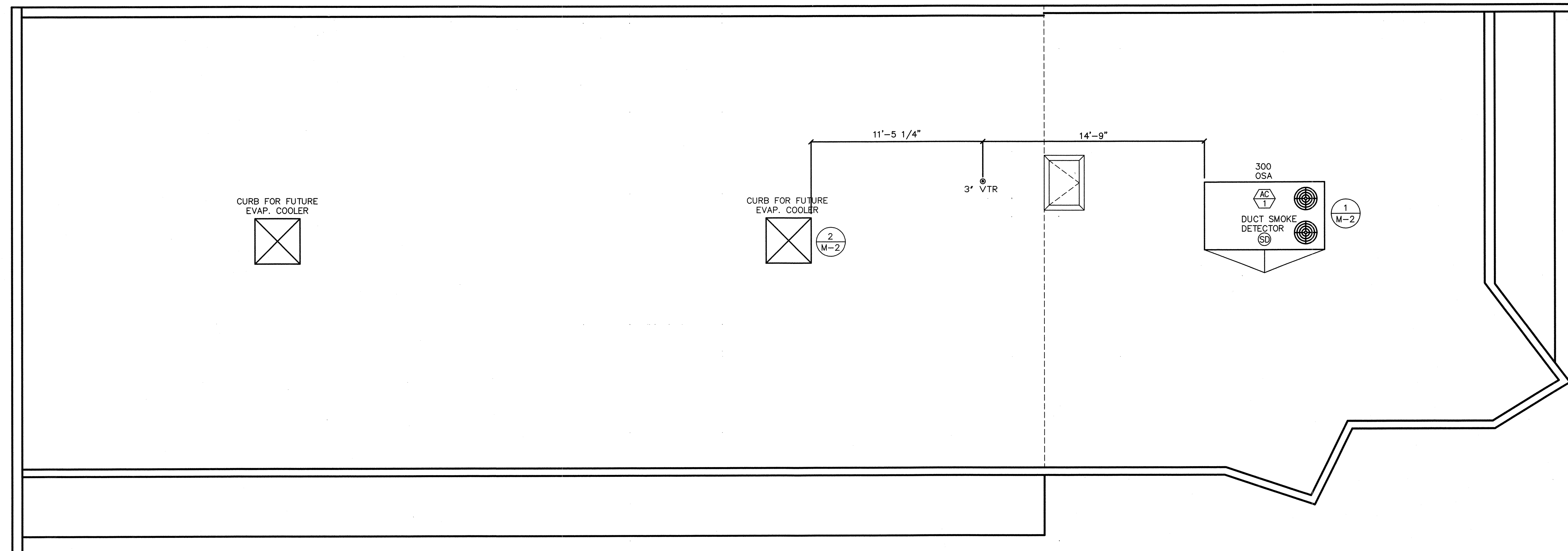
DIANE MIRONOWSKI
 OFFICE/ WAREHOUSE
 6107 WOODMERE DR.
 BAKERSFIELD, CA.

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |

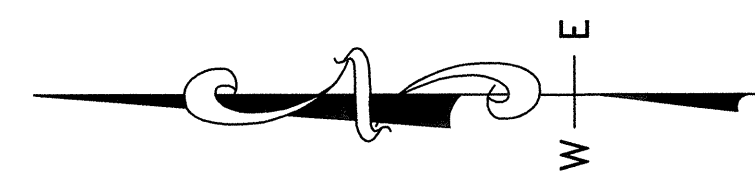


SHEET
M-2
 OF SHEET



MECHANICAL ROOF PLAN

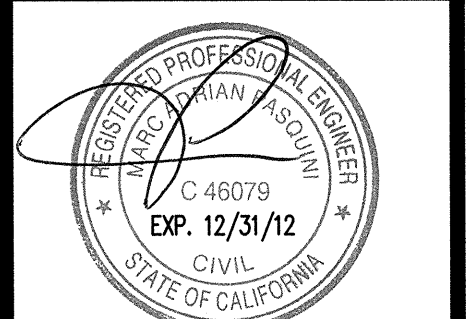
SCALE: 1/4" = 1'-0"



DIANE MIRONOWSKI
OFFICE / WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

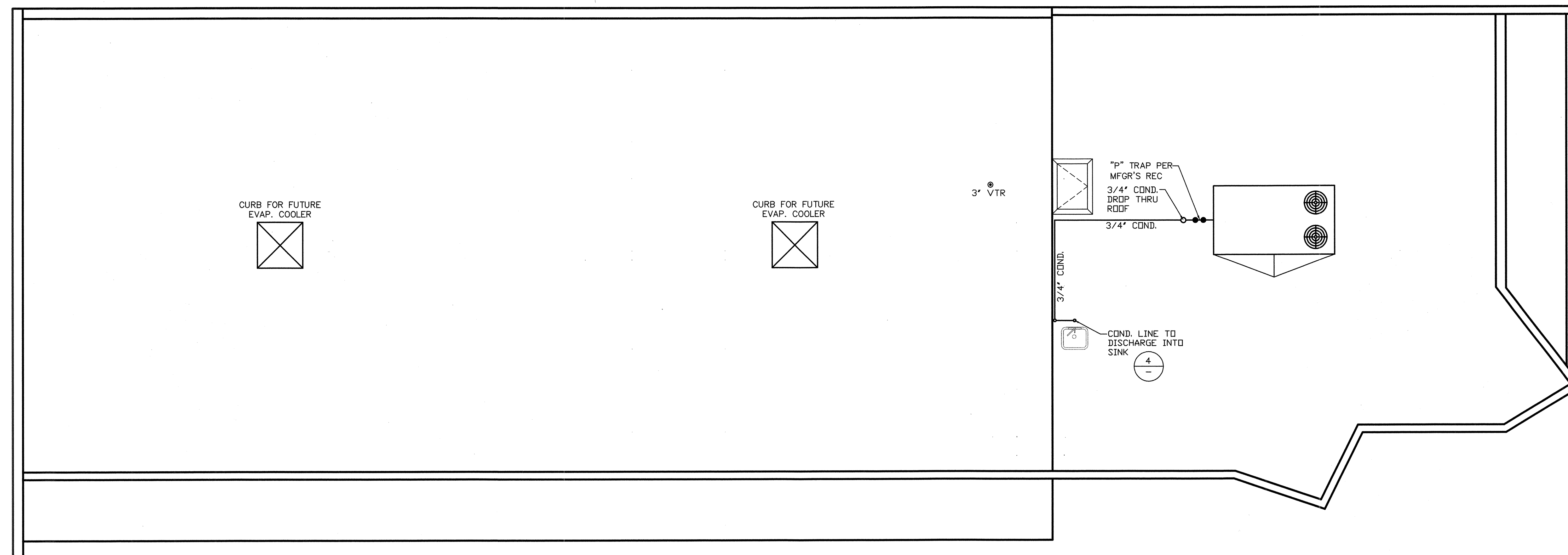
| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



SHEET
M-3
OF SHEET

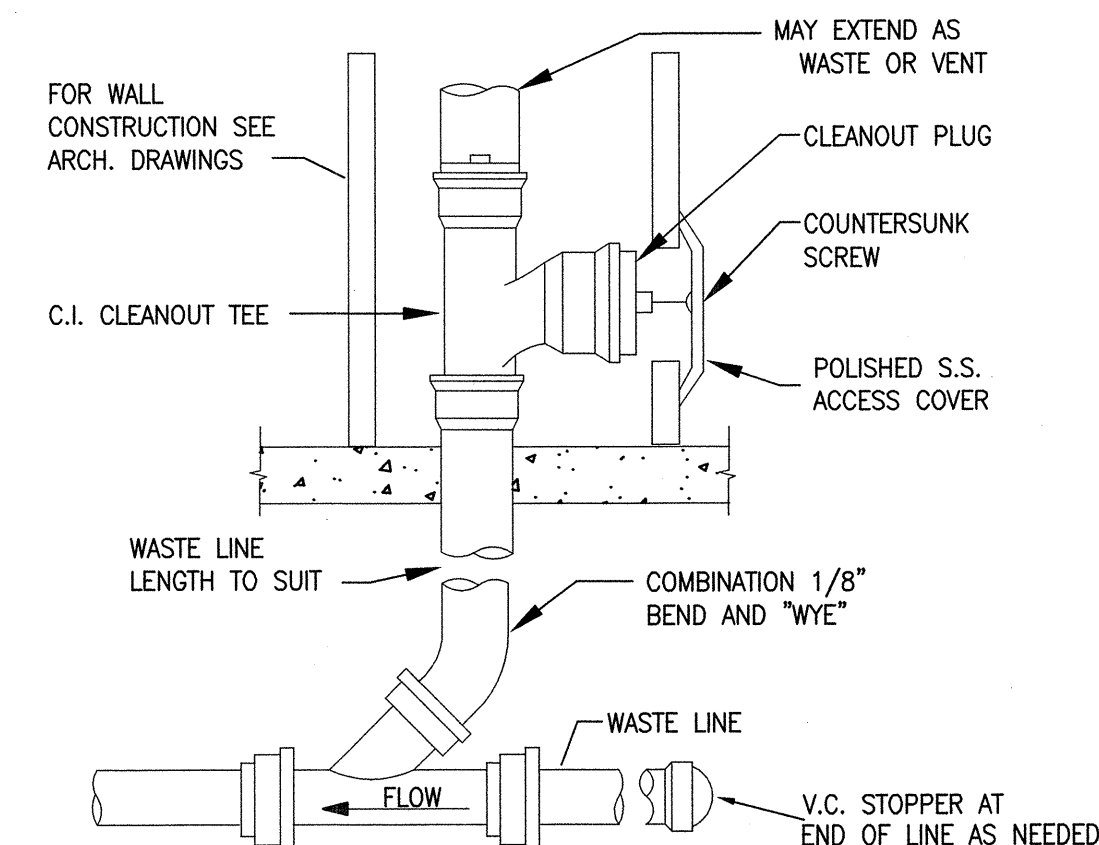
| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |
| | |

PASQUINI ENGINEERING INCORPORATED
903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (661) 328-9600
Fax: (661) 328-9030



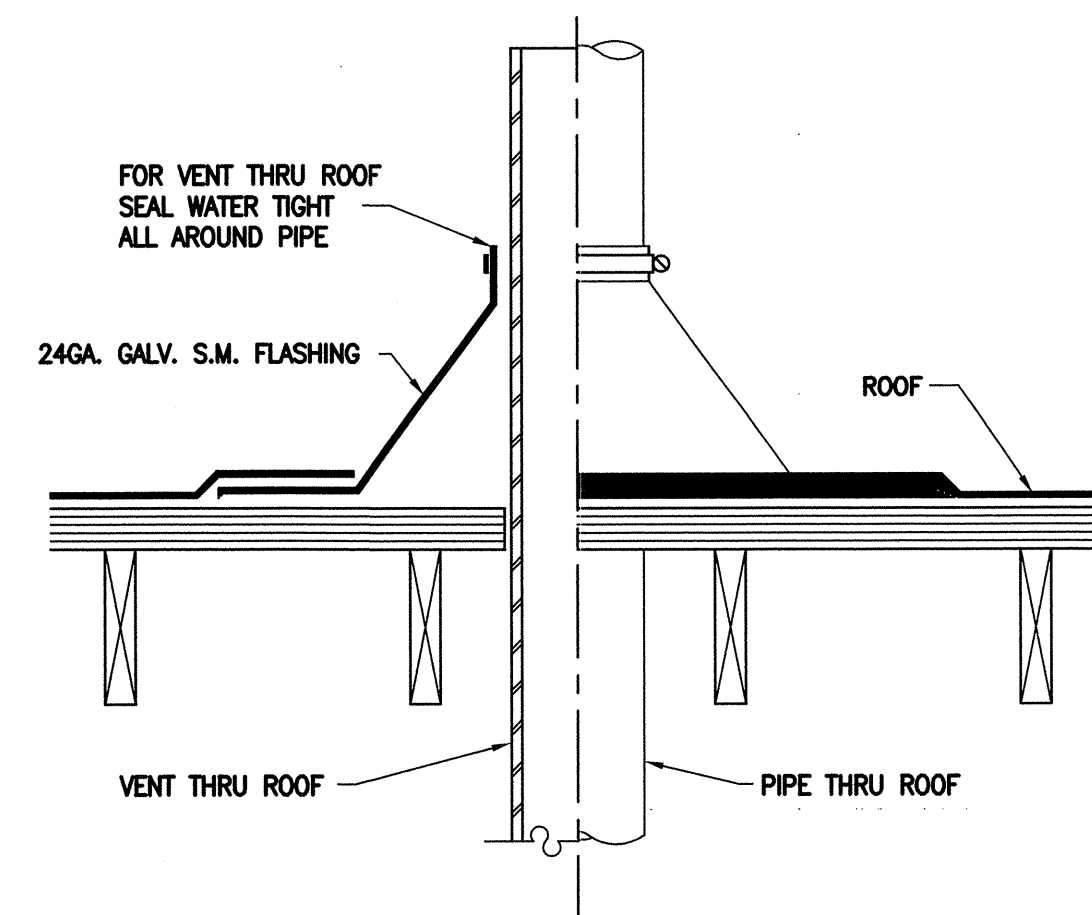
PLUMBING ROOF PLAN

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



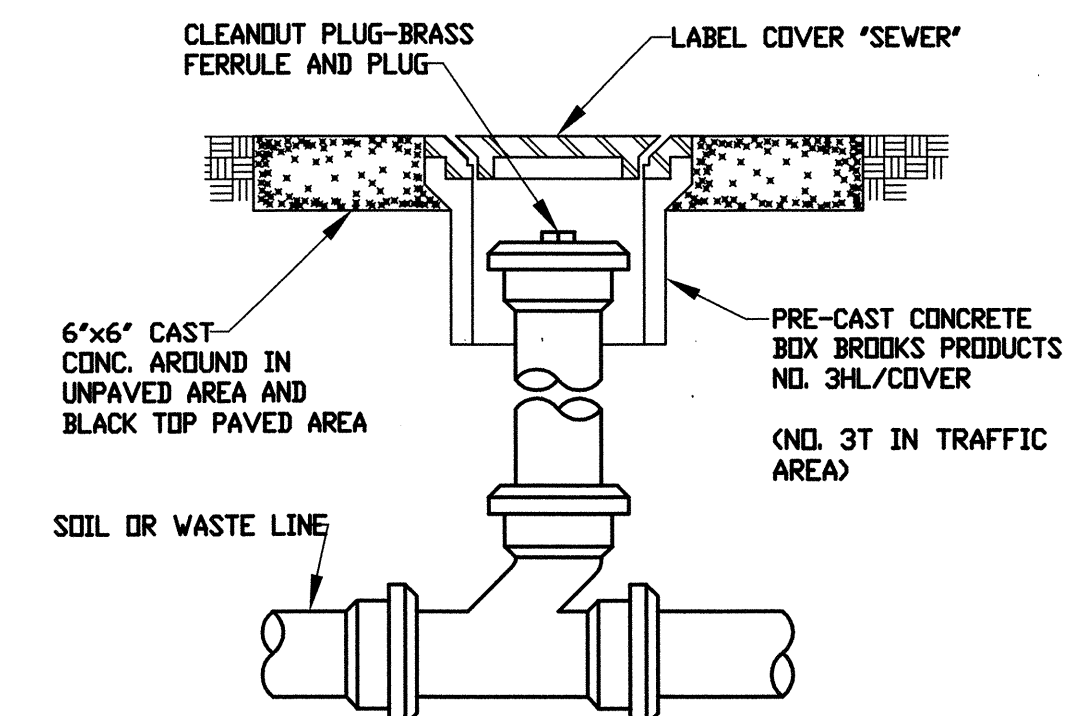
① WALL CLEANOUT TYPICAL

VENT THRU ROOF TO TERMINATE NOT LESS THAN (10) FEET FROM OR AT LEAST (3) FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR-INTAKE OR VENT SHAFT, NOR LESS THAN (3) FEET IN EVERY DIRECTION FROM ANY LOT LINE, ALLEY AND STREET EXCEPTED.

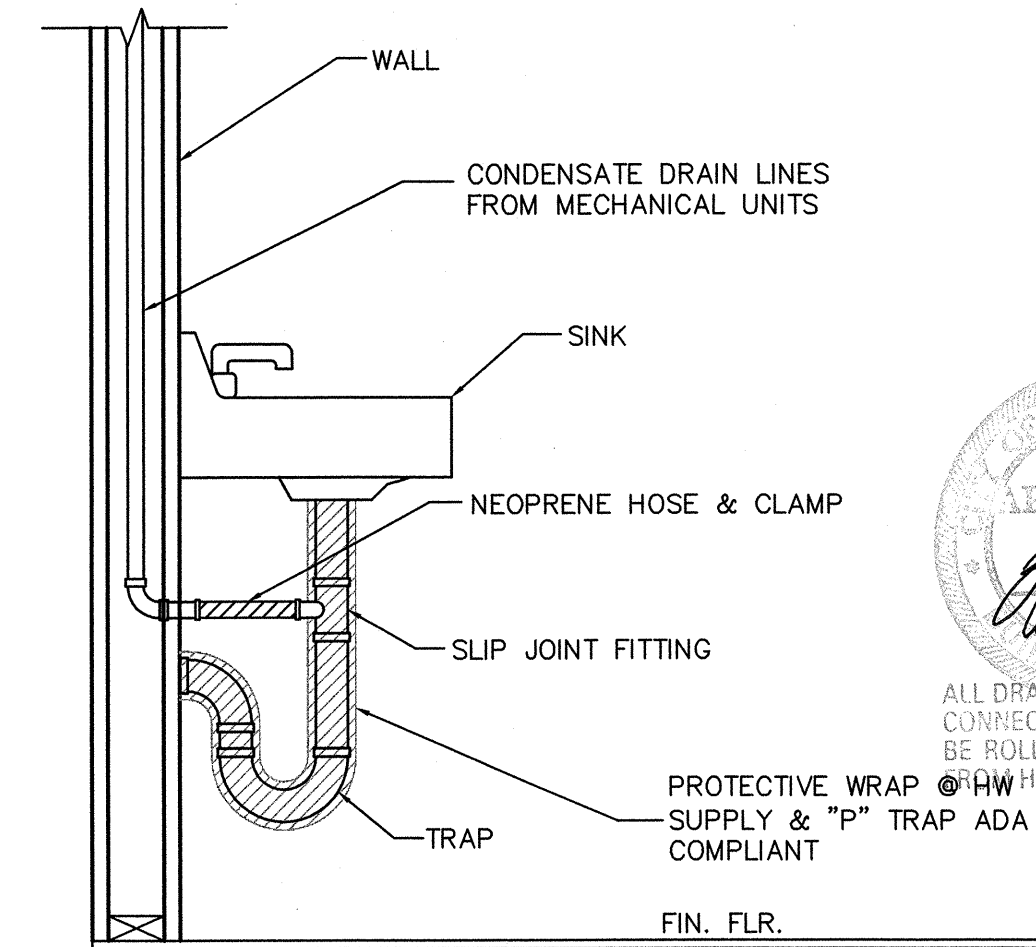


② VENT/PIPE THRU ROOF - TYP

NOTE:
1. FITTINGS FOR CLEANOUT SHALL BE SUITABLE FOR PIPE MATERIALS USED
2. 2-WAY COTG IS SIMILAR INSTALL 2 GOTG IN OPPOSING FLOW DIRECTIONS - TYP.



③ CLEAN-OUT TO GRADE



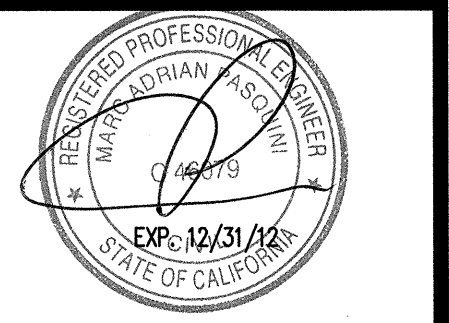
④ CONDENSATE TO TAILPIECE- TYP

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

DIANE MIRONOWSKI
OFFICE / WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



SHEET
P-2
OF SHEET

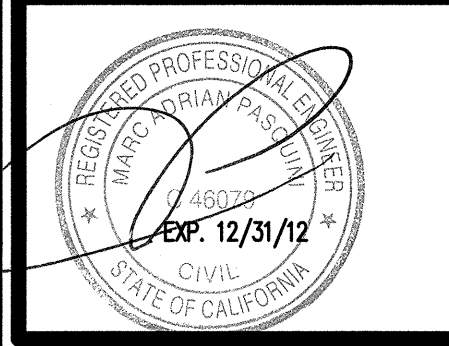
PASQUINI
ENGINEERING
INCORPORATED
903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (661) 328-9600
Fax: (661) 328-9030

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

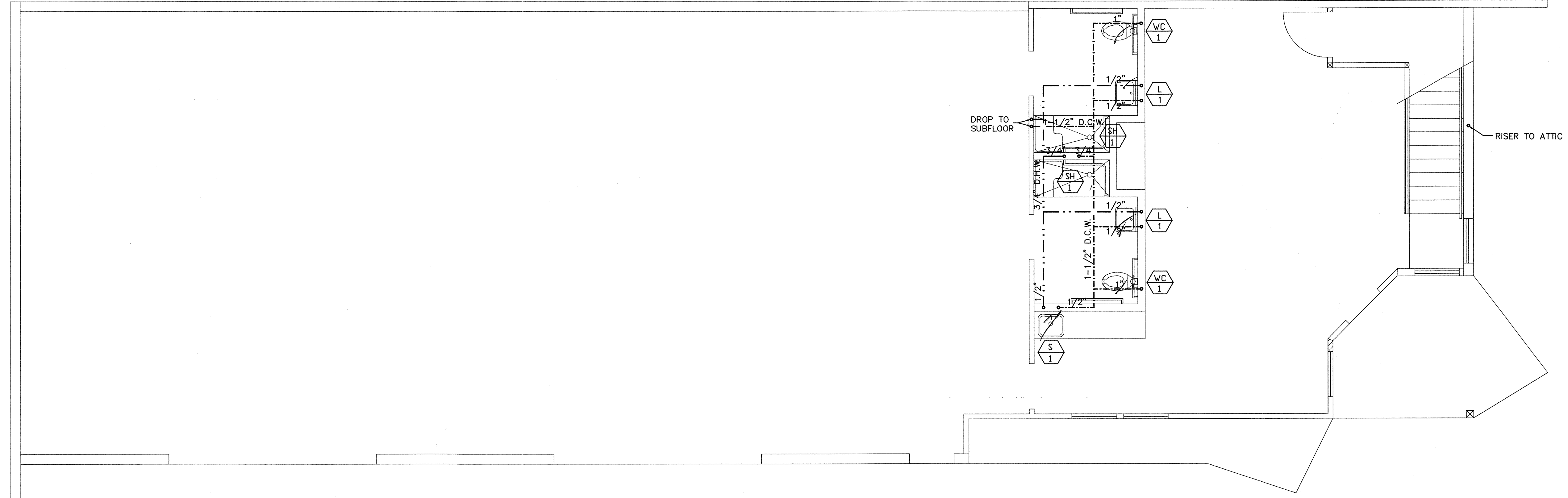
DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



SHEET
P-3
OF SHEET



1ST FLOOR PLUMBING PLAN

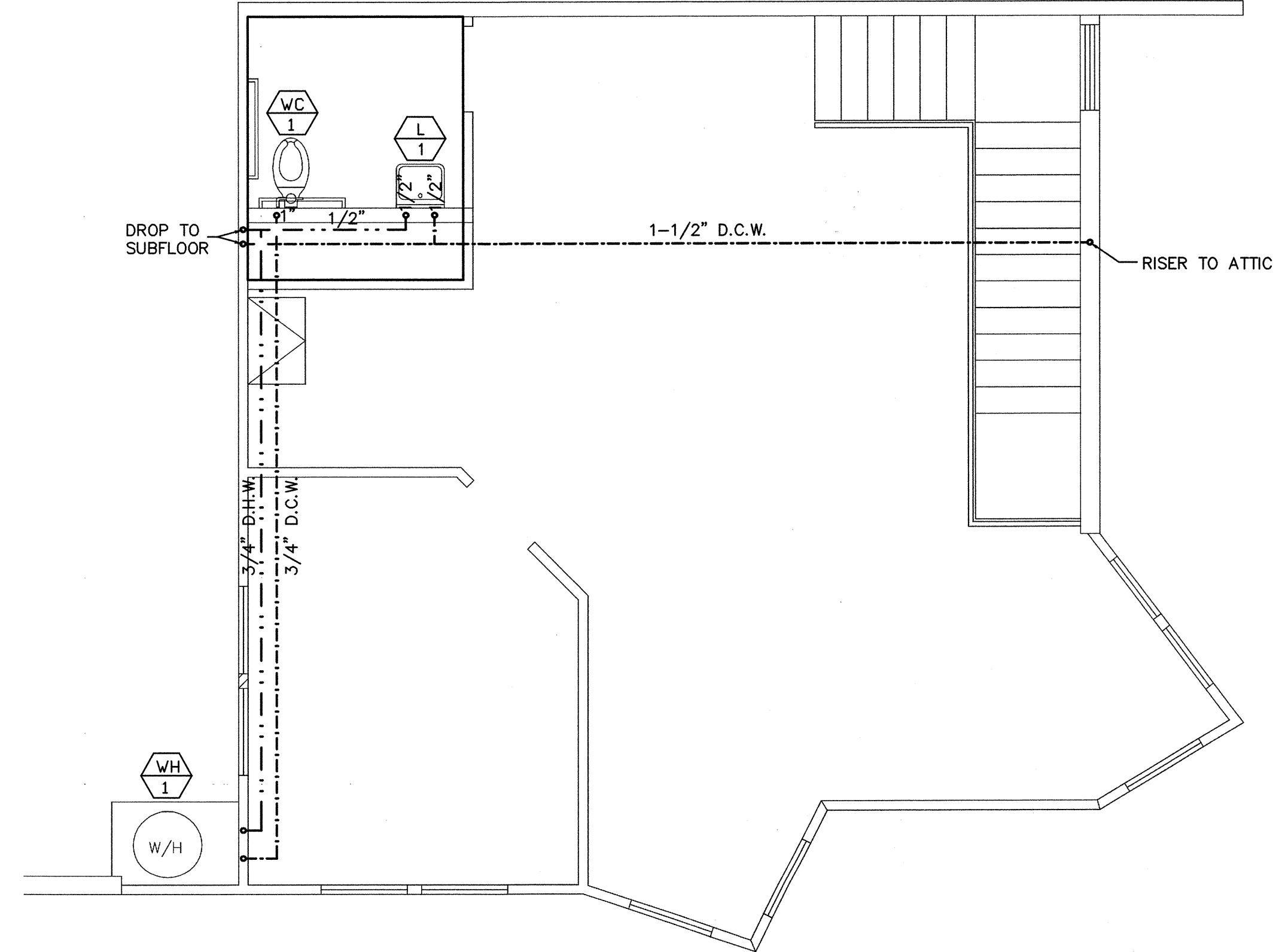
SCALE: 1/4" = 1'-0"

PLUMBING FIXTURES TO COMPLY WITH THE STANDARDS IN TABLE 5.503.6

| PLUMBING FIXTURE SCHEDULE | | | | | | | DESCRIPTION |
|---------------------------|--------------|--------|------|-----|--------|--------|---|
| MARK | FIXTURE | DCW | DHW | S&W | TRAP | VENT | |
| | LAVATORY | 1/2" | 1/2" | 2" | 1 1/4" | 1 1/2" | WALL HUNG A.D.A. LAVATORY, "PRO FLO" #PF5504 (20"x18 3/4") "CHICAGO FAUCETS #3300" SELF CLOSING 1/2"H.W./C.W., 2"W., 1 1/2"V.O., 2"W.C.O. |
| | TOILET | 1-1/2" | - | 3" | INT. | 2" | FLOOR MOUNTED A.D.A. WATER CLOSET, "PRO FLO" PF 1721WH, SIPHON-JET FLUSHING, ELONGATED FRONT, WHITE SEAT, BOLT CAPS, (1.28 GALLON/FLUSH) |
| | WATER HEATER | 3/4" | 3/4" | - | - | - | BRADFORD WHITE WATER HEATER MODEL # M-2-40L6DS 40 GALLON CAPACITY, 20 GPH RECOVERY 90°F RISE |
| | HAND SINK | 1/2" | 1/2" | 2" | 2" | 1 1/2" | PROVIDED BY OWNER 1/2" D.H.W. & D.C.W., 2"W., 1 1/2"V., 2" W.C.O. |
| | SHOWER | 1/2" | 1/2" | 2" | 2" | 1 1/2" | BUILT IN PLACE, ADA COMPLIANT, CUSTOM TILE SHOWER, PROVIDED BY OWNER 1/2" D.H.W. & D.C.W., 2"W., 1 1/2"V., |

TABLE 5.503.2.3

| FIXTURE TYPE | MAXIMUM FLOW RATE AT 20 PERCENT REDUCTION |
|---|---|
| SHOWERHEADS | 2 GPM @ 80 PSI |
| LAVATORY FAUCETS—NONRESIDENTIAL | 0.4 GPM @ 60 PSI |
| KITCHEN FAUCETS | 1.8 GPM @ 60 PSI |
| WASH FOUNTAINS | 1.8 [RIM SPACE (IN.)]20 GPM @ 60 PSI] |
| METERING FAUCETS | 0.2 GALLONS/CYCLE |
| METERING FAUCETS FOR WASH FOUNTAINS | .20 [RIM SPACE (IN.)]20 GPM @ 60 PSI] |
| GRAVITY TANK TYPE WATER CLOSETS | 1.28 GALLONS/FLUSH |
| FLUSHOMETER TANK WATER CLOSETS | 1.28 GALLONS/FLUSH |
| FLUSHOMETER VALVE WATER CLOSETS | 1.28 GAUONS/FLUSH |
| ELECTROMECHANICAL HYDRAULIC WATER CLOSETS | 1.28 GALLONS/FLUSH |
| URINALS | .5 GALLONS/FLUSH |

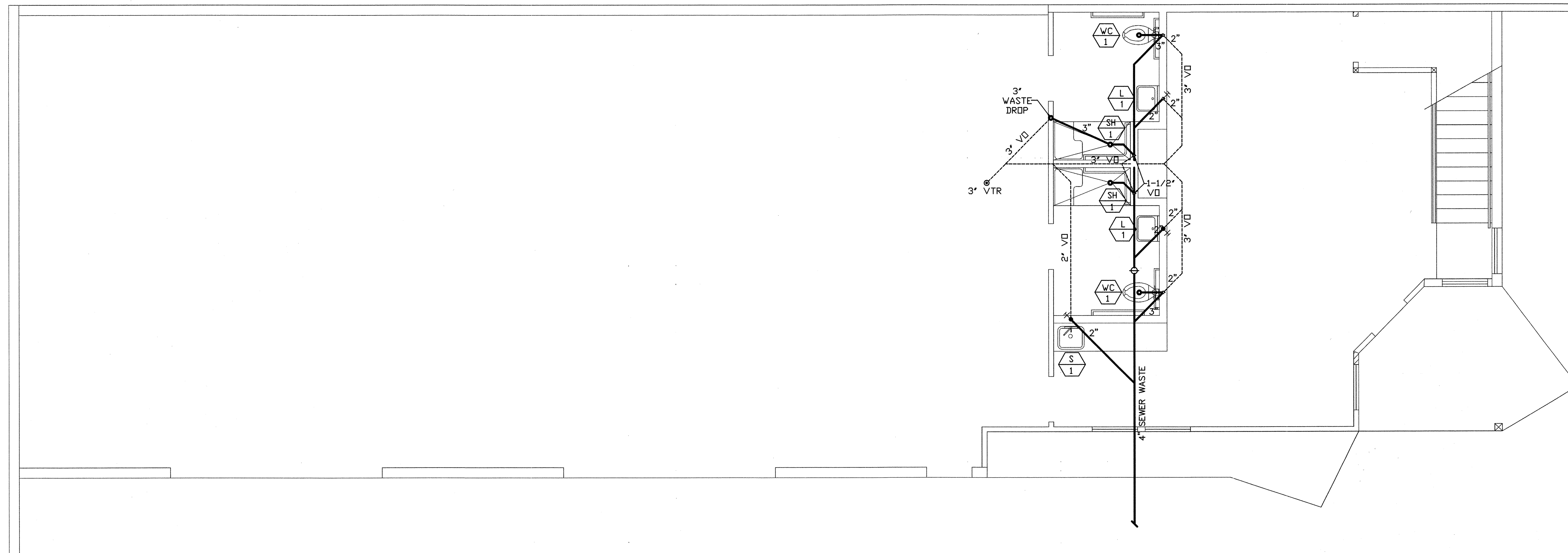


2ND FLOOR PLUMBING PLAN

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

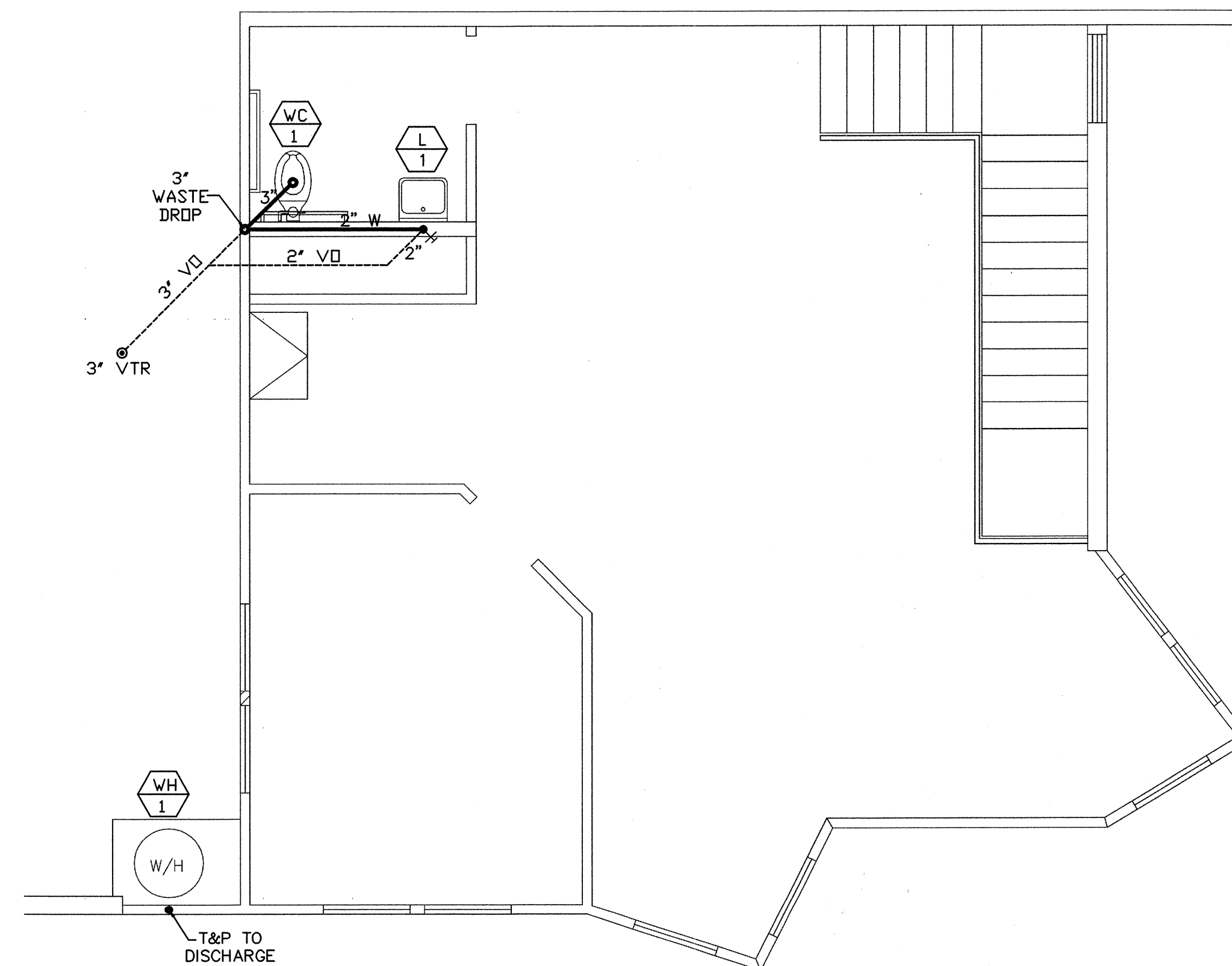


ALL DRAINAGE BRANCH LINES CONNECTING TO MAIN SHALL BE ROLLED UP 45° OR MORE FROM HORIZONTAL.



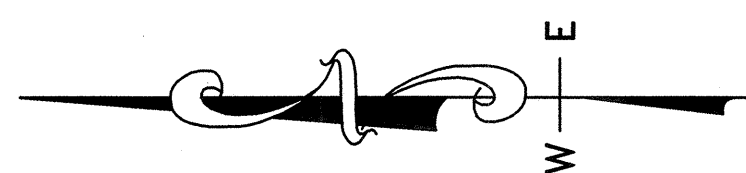
1ST FLOOR PLUMBING WASTE PLAN

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



2ND FLOOR PLUMBING WASTE PLAN

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



ALL DRAINAGE BRANCH LINES
CONNECTING TO MAIN SHALL
BE ROLLED UP 45° OR MORE
FROM HORIZONTAL

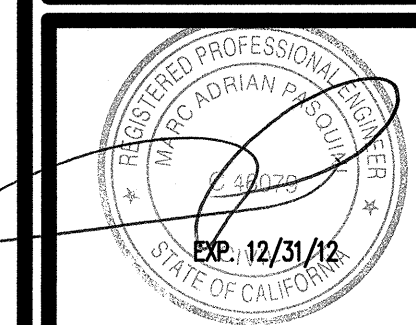
**PASQUINI
ENGINEERING**
INCORPORATED
903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (661) 328-9600
Fax: (661) 328-9030

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |

DIANE MIRONOWSKI
OFFICE / WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |



SHEET
P-4
OF 8 SHEET

| ELECTRICAL SYMBOLS | | | |
|--------------------|---|--------|---|
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
| | FLUORESCENT FIXTURE, RECESSED | | BRANCH PANELBOARD, SURFACE, FLUSH |
| | FLUORESCENT FIXTURE, SURFACE | | DISTRIBUTION PANELBOARD; SURFACE, FLUSH |
| | FLUORESCENT FIXTURE, OPEN STRIP | | TELEPHONE TERM. CABINET; SURFACE, FLUSH |
| | INCANDESCENT OR HID FIXTURE, SURFACE/PENDANT | | DISCONNECT SWITCH; FUSED |
| | INCANDESCENT OR HID FIXTURE, RECESSED | | DISCONNECT SWITCH; UNFUSED |
| | INCANDESCENT OR HID FIXTURE, WALL MOUNTED | | MOTOR STARTER; MAGNETIC |
| | PARKING LUMINAIRE | | TRANSFORMER; DISTRIBUTION |
| | SPOT OR FLOODLIGHT | | MOTOR OUTLET & CONNECTION |
| | ROADWAY LUMINAIRE | | CONDUIT, CONCEALED; WALL OR CEILING |
| | POST OR WALKWAY LUMINAIRE | | CONDUIT, CONCEALED; FLOOR OR UNDERGROUND |
| | EXIT LIGHT; CEILING, WALL; ARROW INDICATES DIRECTION | | CONDUIT, EXPOSED |
| | KEYLESS PORCELAIN LAMPHOLDER RATED 550W, 250V, GE #GES740-7 OR EQUAL WITH 150W LAMP | | CONDUIT, TELEPHONE |
| | LIGHT FIXTURE CONNECTED TO SECURITY "NL" LIGHTING CIRCUIT | | CONDUIT, UP |
| | EMERGENCY LIGHTING UNIT | | CONDUIT, DOWN |
| | LETTER ADJACENT SUYMBOL INDICATES FIXTURE TYPE, NUMBER INDICATES INPUT WATTS | | BRANCH CIRCUIT HOMERUN, CROSS HATCHING INDICATES NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO, PANEL A, CIRCUIT NO. 5 |
| | LIGHT SWITCH S.P.S.T.; +48" U.O.N.TOP OF BOX | | INDICATES NUMBER OF DETAIL NOTE |
| | LIGHT SWITCH 2 P.S.T.; +48" U.O.N.TOP OF BOX | | MECHANICAL EQUIPMENT DESIGNATION |
| | LIGHT SWITCH 3-WAY; +48" U.O.N.TOP OF BOX | | SUBSCRIPT LETTER ADJACENT SYMBOL INDICATES CONTROL |
| | LIGHT SWITCH 4-WAY; +48" U.O.N. TOP OF BOX | | NUMBER ADJACENT SUMBOL INDICATES CIRCUIT NO. ON PANELBOARD |
| | SWITCH, DIMMING, SIZED TO SERVE THE CONNECTED LOAD | | INDICATES MOUNTING HEIGHT TO CENTER OUTLET A.F.F. |
| | SWITCH W/ PILOT LIGHT | | UNLESS OTHERWISE NOTED |
| | THERMAL OVERLOAD SWITCH | | ABOVE FINISHED FLOOR |
| | TWO SWITCHES AT LOCATION | | ABOVE FINISHED GRADE |
| | HP RATED SWITCH OR MANUAL MOTOR STARTER | | NOT IN CONTRACT |
| | OUTLET, DUPLEX CONVENIENCE, 20A, 125V; 15" A.F.F. U.O.N. | | ADJACENT TO SYMBOL INDICATES WEATHERPROOF OUTLET OR DEVICE |
| | OUTLET, DUPLEX CONVENIENCE MOUNTED ON COUNTER, SEE ARCHITECT FOR MOUNTING HEIGHT | | GROUND FAULT INTERRUPTER |
| | OUTLET, DUPLEX CONVENIENCE, DEDICATED EQUIPMENT | | BATTERY PACK |
| | OUTLET, DUPLEX CONVENIENCE, ISOLATED FOR COMPUTERS WITH SEPARATE GROUND | | LIGHT SWITCH & OUTLET COMBINATION |
| | OUTLET, FOURPLEX CONVENIENCE; +12" U.O.N. | | CLOCK OUTLET, +7"-0" U.O.N. |
| | OUTLET, SINGLE, 250V, 3W, CURRENT RATING INDICATED ADJACENT SYMBOL; +12" U.O.N. | | PULLBOX, STATE SPEC. NO. AS NOTED |
| | OUTLET, THERMOSTAT; +60" U.O.N. | | BYPASS TIMER |
| | JUNCTION BOX; CEILING, WALL | | COMB. OUTLET, CAT 5 DATA/PHONE,+12" U.O.N. |
| | OUTLET, FLOOR POWER | | DUCT SMOKE DETECTOR |
| | OCCUPANCY SENSOR, WATTSTOPPER OR EQUM | | OUTLET, TELEVISION, AT+12" U.O.N. |
| | JUNCTION BOX FOR OVERHEAD MEDICAL LIGHT; SWITCH PROVIDED IN FIXTURE; FIXTURE PROVIDED BY OWNER. | | |

| GENERAL ELECTRICAL NOTES | |
|--|--|
| SECTION 16100 BASIC ELECTRICAL REQUIREMENTS PART 1 – GENERAL 1.1 RELATED DOCUMENTS A. REFER TO DRAWINGS AND CONTRACT FOR MATERIALS FURNISHED BY OWNER, INSTALLED BY CONTRACTOR OR FURNISHED AND INSTALLED BY OWNER. 1.2 SUMMARY A. FURNISH ALL LABOR, SUPERVISION AND EQUIPMENT (UNLESS EQUIPMENT IS SPECIFICALLY NOTED AS "OWNER FURNISHED") FOR THE COMPLETE INSTALLATION OF A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM WITH ALL NECESSARY AUXILIARIES AND APPURTENANCES. B. NATIONAL ELECTRICAL PACKAGES 1. THE OWNER THROUGH A DESIGNATED NATIONAL ELECTRICAL PACKAGE VENDOR MAY PROVIDE SWITCHGEAR, PANELBOARDS, AND SPECIFIC LIGHTING FIXTURES. SEE DRAWINGS FOR DETAILS. 2. FURNISH ALL NECESSARY LABOR AND EQUIPMENT TO COMPLETELY INSTALL THE NATIONAL ELECTRICAL PACKAGE AS INDICATED IN THE DRAWINGS. C. PROVIDE ALL EXCAVATION AND TAMP BACKFILL AS REQUIRED TO COMPLETE WORK. CORRECT ANY SETTLING DURING QUARANTINE PERIOD TO OWNER'S SATISFACTION. 1.3 QUALITY ASSURANCE A. MANUFACTURER'S QUALIFICATIONS ELECTRICAL EQUIPMENT, AS INDICATED IN THE DRAWINGS, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND REQUIREMENT. PROVIDE RELATED PRODUCTS AND ACCESSORIES PROTECTING FROM DIRT, MOISTURE, CONTAMINANTS AND WEATHER FROM ONE MANUFACTURER. STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. COMPANY EQUIPMENT MANUFACTURER'S, OTHER THAN THOSE LISTED, WILL BE ACCEPTABLE UPON WRITTEN APPROVAL OF CONSTRUCTION MANAGER. ALL ELECTRICAL MATERIALS SHALL BE LISTED AND LABELS BY UL AND SHALL CONFORM TO NEMA AND OTHER INDUSTRY STANDARDS. B. CODES AND STANDARDS: ELECTRICAL SYSTEM SHALL CONFORM TO REQUIREMENTS OF NATIONAL, STATE AND LOCAL ELECTRIC CODES, LOCAL AUTHORITIES AND UTILITY COMPANY. C. WORKMANSHIP: EXPERIENCED, WELL-TRAINED WORKERS COMPETENT TO COMPLETE THE WORK AS SPECIFIED SHALL PERFORM LABOR IN CONFORMANCE WITH GENERALLY ACCEPTED TRADE STANDARDS. INTALL ALL EQUIPMENT SQUARE AND PLUMB ALLOWING ACCESS FOR PROPER OPERATION AND SERVICE. 1.4 STRUCTURAL AND SPACE CONDITIONS A. ALL WORK SHALL AVOID ABSTRACTIONS AND INTERPERENCE WITH OTHER TRADES, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR AND FREE. 1.5 DRAWINGS A. CONTRACTOR IS RESPONSIBLE FOR EXAMINING THE DRAWINGS, SPECIFICATIONS, SITE AND OTHER BID DOCUMENTS PRIOR TO SUBMITTING A PROPOSAL. B. THE DRAWINGS AS PREPARED ARE DIAGRAMMATIC. THE WORK SHALL FOLLOW AS CLOSELY AS ACTUAL CONSTRUCTION OF THE PROJECT AND THE WORK OF ALL TRADES PERMIT. 1.6 CUTTING AND PATCHING A. CUTTING OR PATCHING NECESSARY TO PERMIT THE INSTALLATION OF ANY WORK UNDER THIS CONTRACT IS THE RESPONSIBILITY OF THIS TRADE. CUTTING AND PATCHING SHALL BE COORDINATED WITH OTHER TRADES SO AS NOT TO IMPACT OTHER WORK. 1.7 TESTING A. TESTS: ENTIRE ELECTRICAL SYSTEM SHALL BE FULLY TESTED AND CORRECTED OF ANY SHORT CIRCUITS, OPEN GROUNDS, FAULTY WIRING AND INCORRECT CONNECTIONS. VERIFY FAN MOTOR SPEED AND DIRECTION. PART 2 – EXECUTION 2.1 ELECTRICAL SYSTEM INSTALLATION, GENERAL A. SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF ELECTRICAL SYSTEMS, MATERIALS, AND COMPONENTS. 1. COORDINATE ELECTRICAL SYSTEMS, EQUIPMENT, AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. 2. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS. 3. ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDINGS COMPONENTS DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR ELECTRICAL INSTALLATIONS. 4. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES TO BE SET IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED. 5. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING IN THE BUILDING. 6. WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE. 7. COORDINATE CONNECTION OF ELECTRICAL SYSTEMS WITH EXTERIOR UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES. COMPLY WITH REQUIREMENTS OF GOVERNING REGULATIONS, FRANCHISED SERVICE COMPANIES, AND CONTROLLING AGENCIES. PROVIDE REQUIRED CONNECTION FOR EACH SERVICE. 8. INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO CONFORM WITH DRAWINGS AND SPECS, TO GREATEST EXTENT POSSIBLE. CONFORM TO ARRANGEMENTS INDICATED BY THE CONTRACT DOCUMENTS, RECOGNIZING THAT PORTIONS OF THE WORK ARE SHOWN ONLY IN DIAGRAMMATIC FORM. WHERE COORDINATION REQUIREMENTS CONFLICT WITH INDIVIDUAL SYSTEM REQUIREMENTS, REFER CONFLICT TO THE CONSTRUCTION MANAGER FOR RESOLUTION PRIOR TO INSTALLATION. 9. INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, WHERE INSTALLED EXPOSED IN FINISHED SPACES. 10. INSTALL ELECTRICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS. 11. INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT GIVING RIGHT-OF-WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIED SLOPE. 2.2 IDENTIFICATION A. PANELBOARD SCHEDULES-INTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND COMPLY WITH FOLLOWING REQUIREMENTS. PROVIDE TYPEWRITTEN DIRECTORIES IN BRANCH PANELBOARDS WITH CLEAR PLASTIC SHIELDS. B. EQUIPMENT LABELS-PROVIDE ENGRAVED PLASTIC NAME PLATES ON ALL DISCONNECT SWITCHES, MOTOR STARTERS, CONTROL DEVICES, AND SWITCHES IN SERVICE ENTRANCE EQUIPMENTS. END OF SECTION | |
| BASIC MATERIALS AND METHODS PART 1 – GENERAL 1.1 RELATED DOCUMENTS A. REFER TO DRAWINGS AND CONTRACT FOR MATERIALS FURNISHED BY OWNER, INSTALLED BY CONTRACTOR OR FURNISHED AND INSTALLED BY OWNER. 1.2 SCOPE OF WORK A. SECTION 16200 APPLIES TO ALL WORK HERE UNDER AND SHALL INCLUDE CONDUIT, BOXES, WIRE, WIRING DEVICES, MOTOR STARTERS, LIGHTING FIXTURES, HEAT TRACE AND RELATED MATERIALS PART 2 – PRODUCTS 2.1 RACE WAY A. SHALL BE AS INDICATED ON THE DRAWINGS B. FLEXIBLE CONDUIT: UL LISTED LIQUID TIGHT CONDUIT WITH LIQUID TIGHT CONDUCTORS. C. RIGID CONDUIT: RIGID GALVANIZED THREADED THICKWALL CONDUIT WITH THREADED FITTINGS SHALL BE PROVIDED IN SLABS ON GRADE. CONDUITS BELOW SLABS ON GRADE OR IN EARTH OUTSIDE OF BUILDINGS SHALL BE SCHEDULE 40 PVC WITH SEPARATE GROUNDING CONDUCTOR PER NEC, WHERE ACCEPTABLE BY LOCAL CODES. WHERE THE USE OF PVC CONFLICTS WITH LOCAL CODES, SUBSTITUTE RIGID GALVANIZED THREADED THICKWALL CONDUIT PAINTED WITH 2 COATS OF ASPHALTUM AND WITH 2 COATS APPLIED AT JOINTS AFTER INSTALLATION. D. ELECTRIC METALLIC TUBING: ALL OTHER CONDUIT SHALL BE ELECTRIC METALLIC TUBING WITH COMPRESSION TYPE FITTINGS E. CONCEALED BOXES SHALL BE 4" SQUARE GALVANIZED STEEL WITH GALVANIZED EXTENSION RINGS, TOTAL DEPTH OF NOT LESS THAN 2-1/2". SURFACE MOUNTED BOXES SHALL BE CAST WEATHERPROOF ALUMINUM. 2.2 WIRING A. WIRING: CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER OF #12 AWG-MINIMUM SIZE. B. INSULATION SHALL BE COLOR CODED, AND RATED FOR 600 VOLTS MINIMUM. TYPE THHN OR THWN SHALL BE USED WHERE CONDUIT SIZES ARE LIMITED. AT OTHER LOCATIONS, TYPE TW MAY BE USED IN SIZES #10 AND #12 AWG AND TYPE THW FOR LARGER SIZES. C. WIRE CONNECTORS FOR SIZES #10 AWG AND LESS SHALL BE BUCHANAN "PRESS-SHURE", IDEAL "WRAP-CAP", T&B "STAKONS" OR 3M "SCOTCHLOK". CONNECTORS FOR WIRE SIZE #6 AND LARGER SHALL BE T&B OR BURNDY METHODS USING HYDRAULIC PRESSES. 2.3 WIRING DEVICES A. WALL SWITCHES SHALL BE COLOR PER ARCH AND SHALL BE AS FOLLOWS OR APPROVED EQUAL. 20 A SP, 125/277 V---A 8H #1991W, BRYANT #4901W, OR HUBBELL #1221W. TO A 3W, 125/277V, BRYANT #4903W, OR HUBBELL #1223W. 20 A 4W, 125/277 V---A8H #1994W, BRYANT #4904W, OR HUBBELL #1224W. 20 A SP, 125/277V WITH PILOT LIGHT--- ARROW-HART #1991-PL, BRYANT #4901-PL, OR HUBBELL #1221-PL 20 A SP, 125/277V, WEATHERPROOF--- ARROW HART #1991/2861-C OR HUBBELL #1281/1795. B. RECEPTACLES SHALL BE WHITE AND SHALL BE AS FOLLOWS OR APPROVED EQUAL. PROVIDE OTHER RECEPTACLES AS INDICATED ON THE DRAWINGS. 20A, 125V DUPLEX --- A8H #5362W (1), BRYANT #5362W 20A, 125V TWISTLOCK --- HUBBELL 2310 30A, 250V, 3W - C --- A & H #5700, BRYANT 9630FR OR HUBBELL #6430 50A, 250V, 3P, 4W - C --- A & H, P & S OR HUBBELL 8450 WITH 8452 PLUG & 4/C #8 SO CORD. GROUND FAULT --- A & H #530F62, BRYANT #530F62 OR HUBELL #GF 5362. PROVIDE SPRING LOADED WEATHERPROOF COVERS WHERE REQUIRED BY CODE. CLOCK & SIGN HANGER --- A & H #4708, BRYANT #2828-GS OR HUBBELL #5235. C. PROVIDE FACE PLATES FOR ALL DEVICES INCLUDING WALL SWITCHES, RECEPTACLES, AND TELEPHONE OUTLETS AND ALL WALL OUTLETS. FACEPLATES SHALL BE WHITE SATIN FINISHED STAINLESS STEEL. D. DIMMERS SHALL BE WHITE --- #D-18P. E. PHOTO CELLS SHALL BE RATED 16.6 AMPS 120 VOLTS. LIGHTS SHALL BE 1.5 FOOTCANDELES FOR TURN ON AND 10 FOOTCANDELES FOR TURN OFF. SUITABLE FOR TEMPERATURE RANGES FOR -30 DEGREE'S F TO +140 DEGREE'S F AND WEATHERPROOF ENCLOSED. LOAD TO REMAIN ON IN CASE OF CELL FAILURE. SHALL HAVE A MINIMUM TIME DELAY OF 15 SECONDS. PROVIDE PARAGON CATALOG #CW201-00 OF EQUAL. 2.4 LIGHTING A. LIGHTING FIXTURES SHALL BE FURNISHED BY CONTRACTOR AS SCHEDULED ON DRAWINGS EXCEPT FOR THOSE INDICATED TO BE FURNISHED BY OWNER. CONTRACTOR SHALL INSTALLALL LIGHTING FIXTURES AND PROVIDE NECESSARY MOUNTING HARDWARE. ALL RECESSED LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED AND IC RATED AS REQUIRED BY CODE. B. CONTRACTOR SHALL FURNISH AND INSTALL ONE COMPLETE SET OF LAMPS FOR ALL LIGHTING FIXTURES SUPPLIED BY THE CONTRACTOR. FIXTURES SUPPLIED BY THE OWNER OR OTHERS SHALL BE FURNISHED WITH LAMPS BY EACH RESPECTIVE FIXTURE SUPPLIER. PROVIDE LABEL IN EACH FIXTURE INDICATING SIZE AND TYPE OF LAMP CORRESPONDING WITH SCHEDULE ON DRAWING. C. FLUORESCENT LAMPS SHALL BE COLOR SHOWN IN SCHEDULE, ENERGY EFFICIENT, MANUFACTURED BY GENERAL ELECTRIC WATT MISER II D. INCANDESCENT LAMPS SHALL BE INSIDE FROSTED WITH 2500-HOUR LAMP LIFE RATED 130 VOLTS. E. FLUORESCENT BALLAST'S SHALL BE ENERGY EFFICIENT. MANUFACTURED BY GENERAL ELECTRIC. MAXI-MISER II 2.5 STARTERS A. STARTERS: THREE-PHASE UNITS SHALL BE SQUARE D TYPE 8536 WITH 120 VOLTS COIL, N.O. AUXILIARY CONTACT, AND WITH RED PILOT (N COVER) 2.6 TIME CLOCK A. PROVIDE TIME CLOCK AS SHOWN ON DRAWINGS. PART 3 – EXECUTION 3.1 INSTALLATION, GENERAL A. RACEWAY SYSTEM SHALL BE INSTALLED TO MAINTAIN THE MAXIMUM HEADROOM. COMMON SUPPORTS MAY BE USED FOR MECHANICAL AND ELECTRICAL EQUIPMENT BY COORDINATING THE WORK WITH ALL TRADES. B. USE ONLY TYPE WIRE PULLING LUBRICANTS FOR WIRE #4 AWG OR LARGER. SPLICE WIRE ONLY IN ACCESSIBLE BOXES. MAKE WIRE JOINTS MECHANICALLY STRONG BEFORE APPLYING THE CONNECTOR, AND WHERE TAPE IS USED, WRAP EACH JOINT TO THE THICKNESS OF THE ORIGINAL INSULATION CLEAN AND POLISH METALLIC SURFACES BEFORE INSTALLING CONDUCTORS. APPLY PRESSURE TYPE LUGS ON STANDARD CONDUCTORS CONNECTED TO SCREW OR BOLT TYPE CONNECTIONS. C. ALL WIRE SHALL BE INSTALLED IN A CONDUIT AND SHALL BE UNFORESEEN CONDITION REQUIRES WIRE TO BE EXPOSED TO RACEWAY SHALL BE INSTALLED AS INCONSPICUOUSLY AS POSSIBLE. CUT RACEWAY SQUARES. REAM SMOOTH AND MAKE UP TIGHT. PLUG ENDS OF RACEWAYS DURING CONSTRUCTION AND SWAB CLEAN BEFORE PULLING WIRE OF CABLE. D. ALL ELECTRICAL BOXES SHALL BE SUPPORTED FROM BUILDING STRUCTURAL MEMBERS INDEPENDENTLY OF THE CONDUIT RACEWAY. MECHANICAL SYSTEMS OF SUSPENDED CEILING SUPPORTS, RECESSED BOXES SHALL BE FLUSH WITH SURROUNDING SURFACES. ALL BOXES AND CABINETS SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL BE CLEANED BEFORE PULLING WIRE AND INSTALLING DEVICES. E. UNLESS NOTED OTHERWISE, RECEPTACLES SHALL BE INSTALLED 18" ABOVE THE FINISHED FLOOR AND SWITCHES SHALL BE 48" ABOVE FINISH FLOOR TO TOP OF BOX. RECEPTACLES NOTED ABOVE WORK COUNTER AND CABINETS SHALL BE MOUNTED ABOVE THE BACKSPLASH. WEATHERPROOF RECEPTACLES SHALL BE INSTALLED SO THAT THE COVER PROTECTS THE DEVICE IN THE OPEN POSITION. RECEPTACLES SHALL BE BONDED TO METALLIC BOXES OR TO SEPARATE GROUND CONDUCTOR PER NEC. F. EQUIPMENT CONNECTIONS: PROVIDE ALL NECESSARY MOTOR STARTERS, DISCONNECT SWITCHES, CONTROLS, CONDUIT, BOXES WIRE, ETC. AND CONNECT COMPLETE TO EACH PIECE OF EQUIPMENT REQUIRING CONNECTIONS INDICATED ON THE DRAWINGS. WHERE EQUIPMENT RATINGS DIFFER FROM THAT INDICATED, CONSULT CONSTRUCTION MANAGER, WHERE EQUIPMENT IS NOTED AS FUTURE, TERMINATE CIRCUIT IN JUNCTION BOX AND TAPE ENDS OF THE CONDUCTORS. G. LIGHTING FIXTURES: FIXTURES SUPPORTED IN EXPOSED GRID CEILINGS SHALL BE PROVIDED WITH CLIPS. FIXTURES MOUNTED IN OR ON TILE CEILINGS SHALL BE ALIGNED WITH TILES. LIGHTING FIXTURES SHALL BE SUPPORTING WIRE SHALL BE PROVIDED AT EACH FIXTURE CORNER. SURFACE MOUNTED LIGHT FIXTURES SHALL BE SECURED PER MANUFACTURER'S RECOMMENDATIONS. H. CLEANING: ALL EQUIPMENT INCLUDING PANELBOARDS, SWITCHES, WIRING DEVICES, LIGHTING FIXTURES, WALL PLATES, ETC. SHALL BE FREE OF CORROSION, DIRT, POINT SPATTER OR DAMAGE OF ANY SORT AT FINAL ACCEPTANCE OF THE WORK. CONTRACTOR SHALL CLEAN, REPAIR OR REPLACE SOME AS INSTRUCTED BY THE CONSTRUCTION MANGER BEFORE FINAL PAYMENT. I. CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH A 3'-0" FLEXIBLE LIQUID TIGHT CONDUIT WITH LIQUID TIGHT CONNECTORS. J. CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH 6'-0" OF FLEXIBLE CONDUIT FROM A BOX WITHIN 2'-0" OF THE FIXTURE. 3.2 INSTALLATION, HEAT TRACE – NOT USED 3.3 INSTALLATION, TIME CLOCK A. PROVIDE 7 DAY CALENDAR DIAL TIME CLOCK WITH BYPASS PROVISIONS FOR EXTERIOR LIGHTS. B. UPON COMPLETION OF THE INSTALLATION, SET THE TIME CONTROLS PER THE OWNERS REPRESENTATIVE'S SCHEDULE. 3.4 INSTALLATION, TELEPHONE SYSTEM A. FURNISH AND INSTALL THE TELEPHONE EMPTY CONDUIT, PULL WIRE, TERMINAL BOXES, JUNCTION BOXES, AND OUTLET BOXES, IN BUILDING WHERE INDICATED ON THE DRAWINGS. 3.5 INSTALLATION, SOUND SYSTEM – NOT USED 3.6 INSTALLATION, COMPUTER CASH REGISTER SYSTEM – NOT USED | |
| SECTION 16400 SERVICE AND DISTRIBUTION PART 1 – GENERAL 1.1 RELATED DOCUMENTS A. REFER TO DRAWINGS AND CONTRACT FOR MATERIALS FURNISHED AND INSTALLED BY CONTRACTOR OR FURNISHED AND INSTALLED BY OWNER. 1.2 SCOPE OF WORK A. SECTION 16400 APPLIES TO ALL WORK HERE UNDER AND SHALL INCLUDE WORK REQUIRED FOR METERING, GROUND RODS, PANEL BOARDS, DISCONNECT SWITCHES AND RELATED MATERIALS. PART 2 – PRODUCTS 2.1 SERVICE ENTRANCE A. CONTRACTOR SHALL VERIFY SERVICE VOLTAGE AND TYPE OF TERMINATION WITH LOCAL UTILITY COMPANY AND SHALL PROVIDE NECESSARY REVISIONS AND MODIFICATIONS REQUIRED. SERVICE TERMINATION'S MAY EITHER BE UNDERGROUND OR OVERHEAD DEPENDING ON THE UTILITY COMPANIES REQUIREMENT AND APPROVAL BY CONSTRUCTION MANAGER. 2.2 UTILITY COMPANY METERING A. CONTRACTOR SHALL PROVIDE NECESSARY METERING FACILITIES INCLUDING METER SOCKET, CURRENT TRANSFORMER CABINET, CONDUIT AND OTHER WORK FOR METERING REQUIRED BY THE LOCAL UTILITY COMPANY. 2.3 GROUNDING A. ALL EXPOSED NON CURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, METALLIC RACEME SYSTEMS, GROUNDING CONDUCTOR IN RACEWAYS AND NEUTRAL CONDUCTOR OF THE WIRING SYSTEM SHALL BE GROUNDED THE GROUND CONNECTION SHALL EXTEND TO THE POINT OF ENTRANCE OF THE METALLIC WATER SERVICE SHALL BE GROUNDED AS DESCRIBED BY NFPA 70 WHERE THERE ARE NO METALLIC WATER SERVICES TO THE BUILDINGS GROUND CONNECTIONS SHALL BE MADE TO DRIVEN GROUND RODS ON THE EXTERIOR OF THE BUILDING. B. GROUND RODS SHALL BE OF ZINC-COATED COPPER CLAD STEEL NOT LESS THAN 3/4- IN DIAMETER, 8' LONG DRIVEN FULL LENGTH INTO THE EARTH. THE MAXIMUM RESISTANCE OF A DRIVEN GROUND ROD SHALL NOT EXCEED 25 OHMS UNDER NORMALLY DRY CONDITIONS. IF THIS RESISTANCE CANNOT BE OBTAINED WITH A SIGNAL ROD, ADDITIONAL RODS MAY BE COUPLED AND DRIVEN WITH THE FIRST ROD. 2.4 PANELBOARDS B. BRANCH PANELBOARDS WILL BE FURNISHED TO THE CONTRACTOR, UNLESS NOTED AS SUPPLIED BY OWNER, FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR UNLESS INDICATED OTHER ON DRAWINGS. THEY WILL BE UNASSEMBLED BOLT ON CIRCUIT BREAKER TYPE, MINIMUM OF 14" WIDE AND 5 3/4- DEEP. RECESSED OR SURFACE MOUNTED AS INDICATED. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORY ON INSIDE DOOR PROTECTED WITH CLEAR PLASTIC SHIELD IN A CARDHOLDER. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC FULL SIZE, COMMON TRIP ON 2 AND 3 POLE WITH TRIP FREE HANDLES, RATED NOT LESS THAN 10,000 RMS AMPERES. 2.5 DISCONNECT SWITCHES A. HVAC DISCONNECT SWITCHES SHALL BE FURNISHED BY THE CONTRACTOR, UNLESS NOTED AS SUPPLIED BY OWNER. FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR UNLESS INDICATED OTHERWISE ON DRAWINGS. ALL DISCONNECT SWITCHES WILL BE NORMAL DUTY TYPE NEMA ND, FUSED UNLESS NOTED OTHERWISE, DRAWN WITH OPERATOR INTERLOCKED WITH THE DOOR SO DOOR CAN BE OPENED ONLY IN THE "OFF" POSITION. PART 3 – EXECUTION 3.1 INSTALLATION, GENERAL A. PANELBOARDS SHALL BE INSTALLED AT HEIGHT INDICATED. DISCONNECT SWITCHES SHALL BE INSTALLED 4'-0" ABOVE FINISHED FLOOR WHERE POSSIBLE. ALL CABINETS SHALL BE VACUUM CLEANED BEFORE PULLING WIRE. END OF SECTION | |

Telephone: (661) 328-9600
Bakersfield, CA 93304

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |
| | |

DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

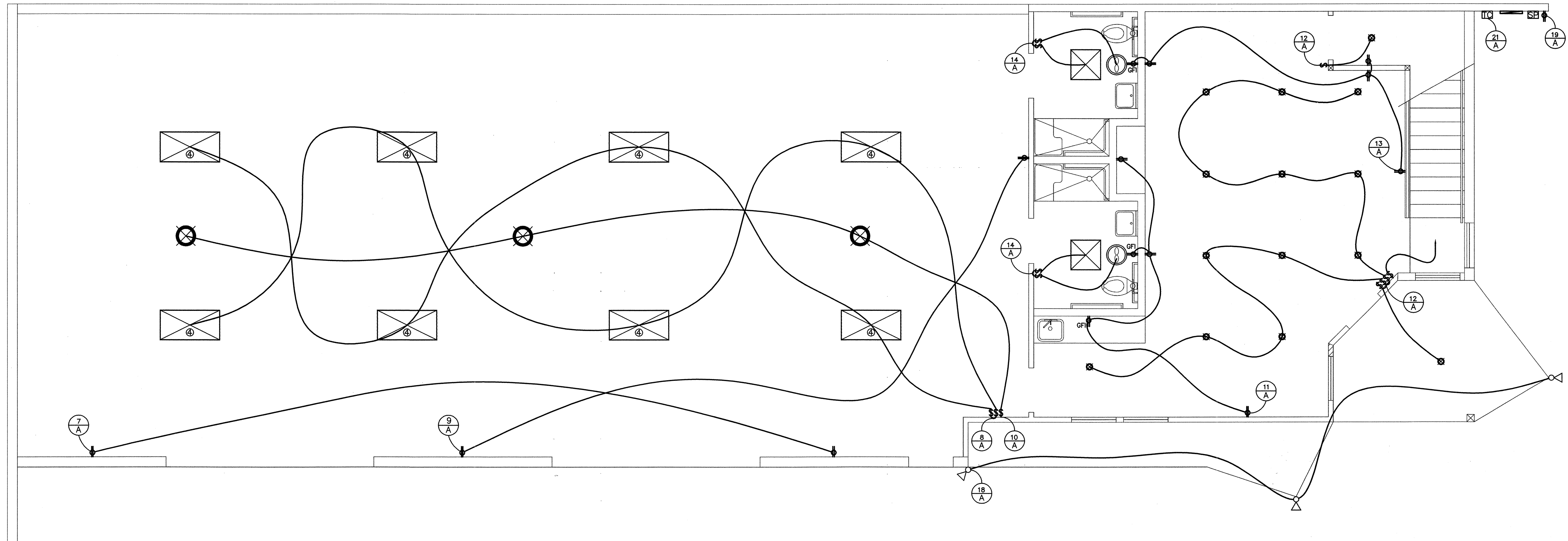
THESE PLANS ARE NOT FOR CONSTRUCTION UNLESS A "WET STAMP & SIGNATURE" FROM BOTH THE ENGINEER OF RECORD AND A APPROVAL STAMP WITH A "WET STAMP & SIGNATURE" FROM THE LOCAL GOVERNING AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |

SHEET

E-1

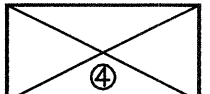




OF SHEET



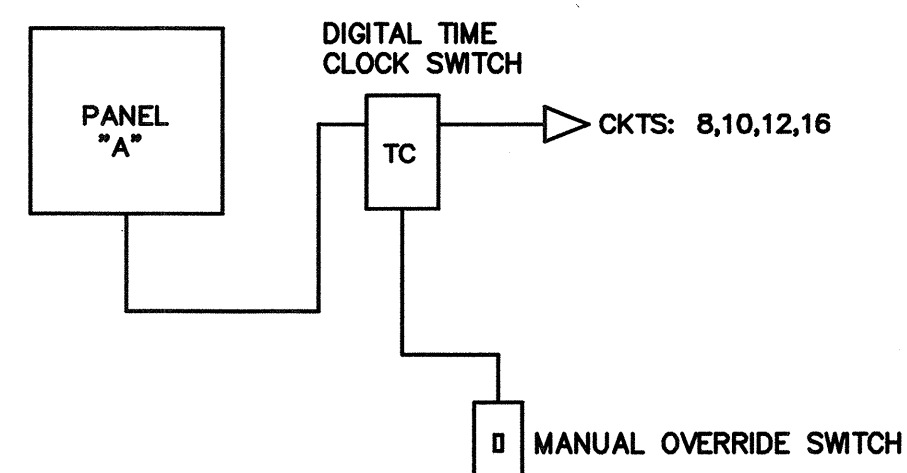
1ST FLOOR ELECTRICAL PLAN

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

FIXTURE SCHEDULE

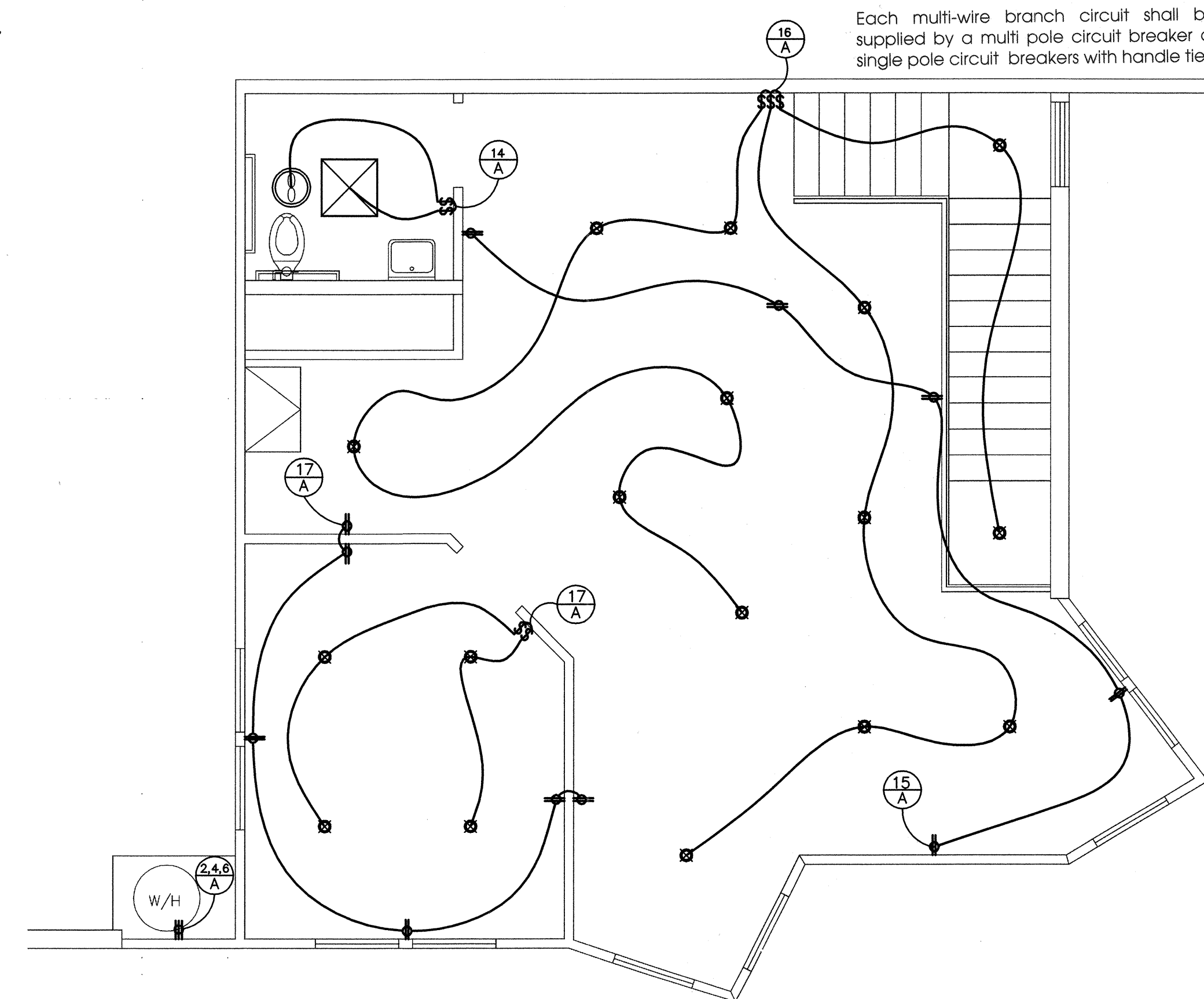
-  - 2X4 ACRYLIC FLOURESCENT LIGHT
5-T5 96 WATTS
-  - INCANDESCENT CAN LIGHTS
31 - 45 WATTS
-  - DAY-BRITE LIGHTING
HBA LOW BAY LUMINAIRE
MODEL# - HBA250PMT
LAMP - (2)26DIT
3 - 250 WATTS
-  - TIME CLOCK AND MANUAL
OVERRIDE SWITCH
-  - WILLIAMS OUTDOOR LIGHTING
MEDIUM SHALLOW-BACK WALL PACK
MODEL# WP1-PSMH-150-MED-120
150 WATTS

DIGITAL TIME CLOCK CONTACTOR - TC



DIGITAL TIME CLOCK - SWITCH (TC) - INTERMATIC, MODEL #ET70115CR
OR APPROVED EQUAL - DEVICE MUST BE CERTIFIED BY THE C.E.C. UNDER
TITLE 24, PART 6, SECTION 131(D) OF THE C.C.R.

| PANEL A | | | | | | | | | | | | | | | |
|--|---------|---------------|------|-------------------|-----|------------|---|-------------|---|----|---|----|------|---|----------------------|
| PANEL 3# 4 WIRE | | TYPE NEMA 1 | | LOC. OUTSIDE WALL | | MTG. FLUSH | | MAIN M.L.O. | | | | | | | |
| BUS: AMP 200 | | VOLTS 120/208 | | FEEDER NEW | | AIC 10,000 | | | | | | | | | |
| DESCRIPTION | WATTAGE | | | OUTLETS | | BKR | P | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | A | B | C | L.TG | REC | | | | | | | | | | |
| | A | B | C | | | | | | | | | | | | |
| AC | 3936 | | | | | 50 | 3 | 1 | | | | | 4500 | | WATER HEATER |
| AC | | 3936 | | | | 3 | | 2 | | | | | 4500 | | WATER HEATER |
| AC | | | 3936 | | | 5 | | 3 | | | | | 4500 | | WATER HEATER |
| WAREHOUSE REC. 1 | 800 | | | | | 20 | 1 | 7 | | 8 | 1 | 20 | 800 | | WAREHOUSE LIGHTS 1 |
| WAREHOUSE REC. 2 | | 800 | | | | 20 | 1 | 9 | | 10 | 1 | 20 | 1000 | | WAREHOUSE LIGHTS 2 |
| RECEPTION RECEPTACLES 1 | | | 1000 | | | 20 | 1 | 11 | | 12 | 1 | 20 | 650 | | RECEPTION LIGHTS |
| RECEPTION RECEPTACLES 2 | 1000 | | | | | 20 | 1 | 13 | | 14 | 1 | 20 | 600 | | BATHROOM LIGHTS /FAN |
| 2ND FL. RECEPTACLES | | 1000 | | | | 20 | 1 | 15 | | 16 | 1 | 20 | 600 | | 2ND FLOOR LIGHTS |
| 2ND FL. OFFICE REC./LGTS | | | 1400 | | | 20 | 1 | 17 | | 18 | 1 | 20 | 600 | | OUTDOOR LIGHTING |
| SPRINKLER GFI REC. | 300 | | | | | 20 | 1 | 19 | | 20 | 1 | 20 | 300 | | ROOF GFI REC./SD |
| TIME CLOCK | | 400 | | | | 20 | 1 | 21 | | | | | | | |
| | | | | | | 23 | | | | | | | | | |
| | | | | | | 25 | | | | | | | | | |
| | | | | | | 27 | | | | | | | | | |
| | | | | | | 29 | | | | | | | | | |
| | | | | | | 31 | | | | | | | | | |
| | | | | | | 33 | | | | | | | | | |
| | | | | | | 35 | | | | | | | | | |
| | | | | | | 37 | | | | | | | | | |
| | | | | | | 39 | | | | | | | | | |
| | | | | | | 41 | | | | | | | | | |
| CONNECTED LOAD | | | | | | | | | | | | | | | |
| LOAD DATA BY PHASE | | | | | | | | | | | | | | | |
| DEMAND CALCULATIONS | | | | | | | | | | | | | | | |
| TOTAL LOAD | | | | | | | | | | | | | | | |
| TOTAL DEMAND AMPS = 36.558 VOLTS-AMPS / (√3 * PHASE VOLTAGE 208 VOLTS) = 101.5 AMPS | | | | | | | | | | | | | | | |



2ND FLOOR ELECTRICAL PLAN

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



DIANE MIRONOWSKI
OFFICE/ WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

DWG. BY L.H.
CHK'D BY
DATE 2-13-12
JOB NO. 6510
FILE NO. 651022

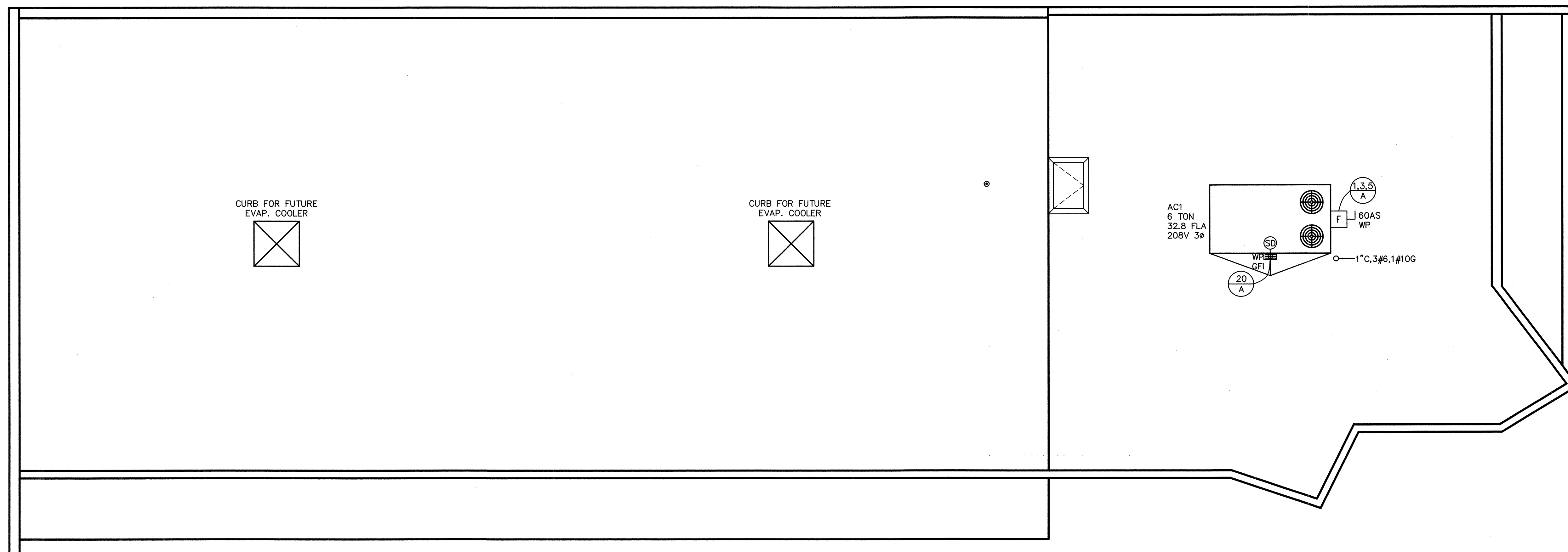


SHEET
E-2
OF SHEET

PASQUINI
ENGINEERING
INCORPORATED

903 H Street Suite 300
Bakersfield, CA 93304
Telephone: (805) 328-9600
Fax: (805) 328-9030

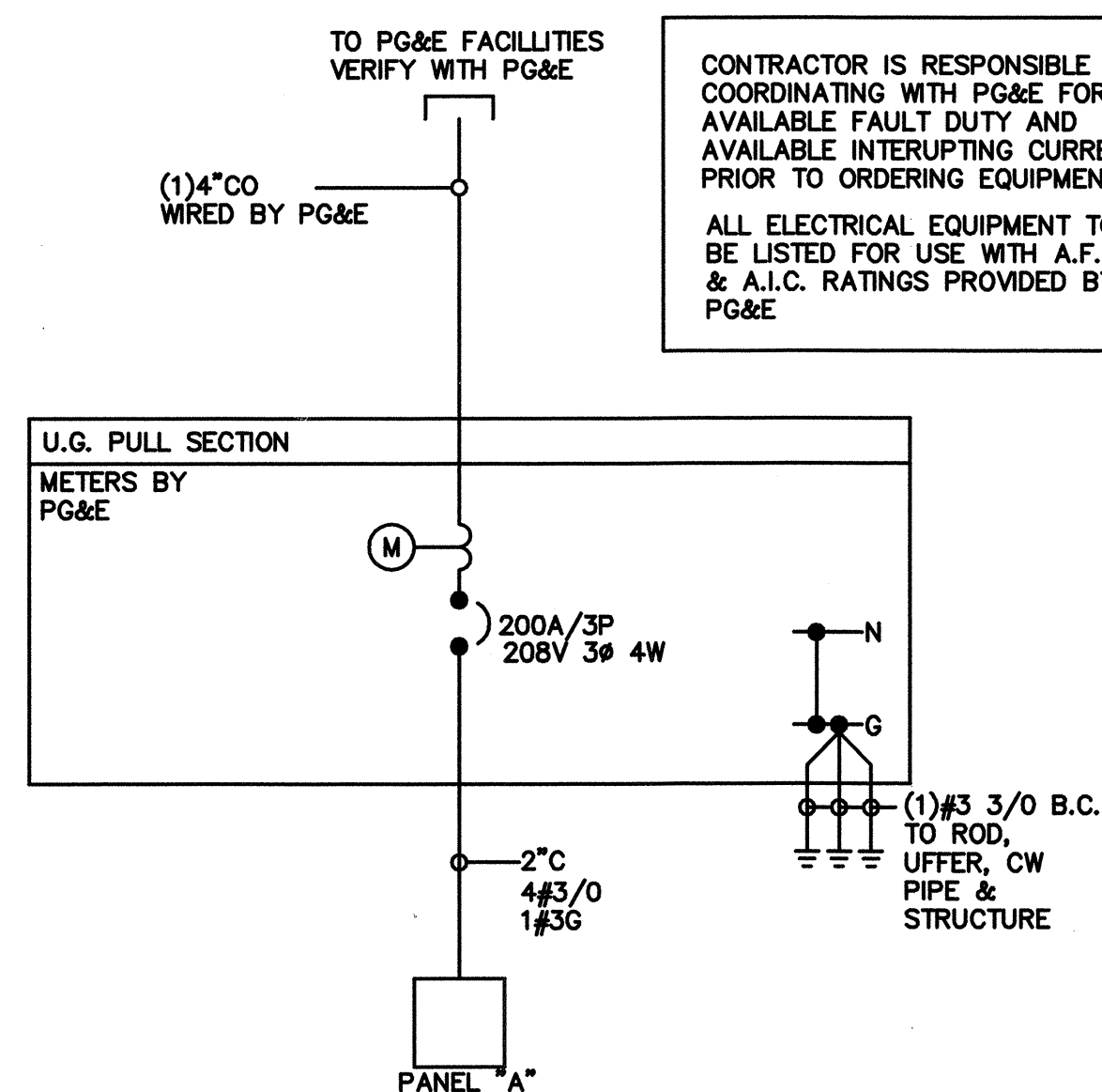
| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |



ELECTRICAL ROOF PLAN

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

FAULT CURRENT ASSUMED TO BE
42,000 AMPS UNLESS OTHERWISE
NOTED BY UTILITY. VERIFY.

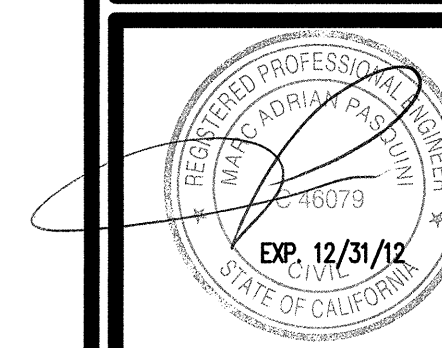
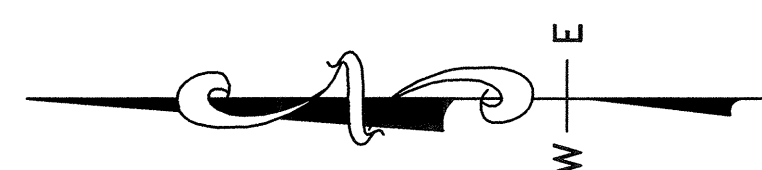


CONTRACTOR IS RESPONSIBLE FOR
COORDINATING WITH PG&E FOR
AVAILABLE FAULT DUTY AND
AVAILABLE INTERRUPTING CURRENT
PRIOR TO ORDERING EQUIPMENT

ALL ELECTRICAL EQUIPMENT TO
BE LISTED FOR USE WITH A.F.D.
& A.I.C. RATINGS PROVIDED BY
PG&E

SINGLE LINE DIAGRAM

NTS



DIANE MIRONOWSKI
OFFICE / WAREHOUSE
6107 WOODMERE DR.
BAKERSFIELD, CA.

THESE PLANS ARE NOT
FOR CONSTRUCTION
UNLESS A "WET STAMP &
SIGNATURE" FROM BOTH
THE ENGINEER OF RECORD
AND A APPROVAL STAMP
WITH A "WET STAMP &
SIGNATURE" FROM THE
LOCAL GOVERNING
AGENCY ARE PRESENT.

| | |
|----------|---------|
| DWG. BY | L.H. |
| CHK'D BY | |
| DATE | 2-13-12 |
| JOB NO. | 6510 |
| FILE NO. | 651022 |

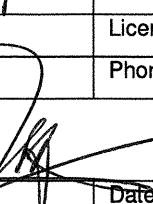
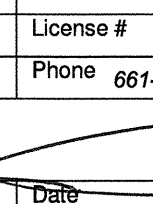
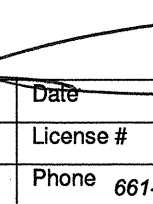
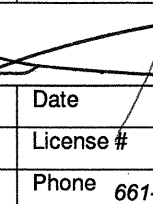
SHEET
E-3
OF SHEET

| NO. | DATE |
|-----|------|
| | |
| | |
| | |
| | |
| | |

| CERTIFICATE OF COMPLIANCE | | | | | | | | | | (Part 1 of 3) | | ENV-12 | | | |
|---|-------------------|-------------------------|---------------------------|--------------|-------------------|------------------|------------------|--------------------------|-------------------|---------------------------|--------------------------|--|--------------------------|-----------------------------------|--|
| AND FIELD INSPECTION ENERGY CHECKLIST | | | | | | | | | | | | Date 4/12/2012 | | | |
| Project Name Diane Mironowski | | | | | | | | | | | | | | | |
| Project Address 6107 Woodmere Drive Bakersfield | | | | | | | | | | Climate Zone 13 | | Total Cond. Floor Area 1,448 | | Addition Floor Area n/a | |
| GENERAL INFORMATION | | | | | | | | | | | | | | | |
| Building Type: <input checked="" type="checkbox"/> Nonresidential <input type="checkbox"/> High-Rise Residential <input type="checkbox"/> Hotel/Motel Guest Room | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Schools (Public School) <input type="checkbox"/> Relocatable Public School Bldg. <input checked="" type="checkbox"/> Conditioned Spaces <input type="checkbox"/> Unconditioned Spaces | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Skylight Area for Large Enclosed Space ≥ 8000 ft ² (If checked include the ENV-4C with submittal) | | | | | | | | | | | | | | | |
| Phase of Construction: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Addition <input type="checkbox"/> Alteration | | | | | | | | | | | | | | | |
| Approach of Compliance: <input type="checkbox"/> Component <input checked="" type="checkbox"/> Overall Envelope <input type="checkbox"/> Unconditioned (file affidavit) | | | | | | | | | | | | | | | |
| Front Orientation: N, E, S, W or in Degrees: 180 deg | | | | | | | | | | | | | | | |
| FIELD INSPECTION ENERGY CHECKLIST | | | | | | | | | | | | | | | |
| OPAQUE SURFACE DETAILS | | | | | | | | | | INSULATION | | | | | |
| Tag/ID | Assembly Type | Area (ft ²) | Orientation N, E, S, W | U-Factor | Cavity R-Value | Exterior R-Value | Exterior Furring | Interior R-Value | Interior Furring | Joint Appendix 4 | Condition Status | Pass | Fail? | | |
| 1 | Wall | 425 | (N) | 0.065 | R-19 | | | | | 4.3.1-A7 | New | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 2 | Wall | 50 | (M) | 0.074 | R-19 | | | | | 4.3.1-A5 | New | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 3 | Wall | 208 | (E) | 0.102 | R-13 | | | | | 4.3.1-A3 | New | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 4 | Wall | 41 | (NE) | 0.102 | R-13 | | | | | 4.3.1-A3 | New | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 5 | Roof | 541 | (N) | 0.031 | R-30 | | | | | 4.2.1-A20 | New | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 6 | Slab | 541 | (N) | 0.730 | None | | | | | 4.4.7-A1 | New | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 7 | Wall | 73 | (W) | 0.074 | R-19 | | | | | 4.3.1-A5 | New | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 8 | Roof | 65 | (N) | 0.031 | R-30 | | | | | 4.2.1-A20 | New | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 9 | Slab | 65 | (N) | 0.730 | None | | | | | 4.4.7-A1 | New | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 10 | Roof | 68 | (N) | 0.031 | R-30 | | | | | 4.2.1-A20 | New | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 1. See Instructions in the Nonresidential Compliance Manual, page 3-96. 2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance. | | | | | | | | | | | | | | | |
| FENESTRATION SURFACE DETAILS | | | | | | | | | | | | | | | |
| Tag/ID | Fenestration Type | Area (ft ²) | Orientation N, E, S, W | Max U-Factor | U-Factor Source | Max (R)SHGC | SHGC Source | Overhang | Conditions Status | Pass | Fail? | | | | |
| 1 | Window | 38 | (N) | 0.770 | Default | 0.600 | Default | <input type="checkbox"/> | New | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| 2 | Window | 62 | (E) | 0.770 | Default | 0.600 | Default | <input type="checkbox"/> | New | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| 3 | Window | 24 | (NE) | 0.770 | Default | 0.600 | Default | <input type="checkbox"/> | New | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| 1. See Instructions in the Nonresidential Compliance Manual, page 3-96. 2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary. | | | | | | | | | | | | | | | |
| EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-12T10:15:28 ID: 6510 | | | | | | | | | | | | | | | |
| Page 4 of 28 | | | | | | | | | | | | | | | |

[illegible]

| | | | | | | | |
|---|-----------------|-------------------------------|----------------------------------|--------------------------|--|---------------------|--|
| PERFORMANCE CERTIFICATE OF COMPLIANCE | | | | (Part 2 of 3) | | PERF-1C | |
| Project Name <i>Diane Mironowski</i> | | | | Date <i>4/12/2012</i> | | | |
| ANNUAL TDV ENERGY USE SUMMARY (kBtu/sqft-yr) | | | | | | | |
| Energy Component | Standard Design | Proposed Design | Compliance Margin | | | | |
| Space Heating | 45.14 | 56.39 | -11.2% | Heating | | | |
| Space Cooling | 236.24 | 218.50 | 19.74 | Cooling | | | |
| Indoor Fans | 37.80 | 33.05 | 4.7% | Fans | | | |
| Heat Rejection | 0.00 | 0.00 | 0.00 | Heat Rej | | | |
| Pumps & Misc. | 0.00 | 0.00 | 0.00 | Pumps | | | |
| Domestic Hot Water | 16.54 | 16.54 | 0.00 | DHW | | | |
| Lighting | 45.71 | 52.51 | -6.80 | Lighting | | | |
| Receptacle | 75.68 | 75.68 | 0.00 | Receptacle | | | |
| Process | 0.00 | 0.00 | 0.00 | Process | | | |
| Process Lighting | 0.00 | 0.00 | 0.00 | Process Ltg | | | |
| TOTALS | 459.12 | 452.68 | 6.44 | | | | |
| Percent better than Standard | | | 1.4 % (1.4 % excluding process) | | | | |
| BUILDING COMPLIES | | | | | | | |
| GENERAL INFORMATION | | | | | | | |
| Building Orientation | (S) 180 deg | Conditioned Floor Area | 1,448 | sqft. | | | |
| Number of Stories | 1 | Unconditioned Floor Area | 0 | sqft. | | | |
| Number of Systems | 1 | Conditioned Footprint Area | 2,692 | sqft. | | | |
| Number of Zones | 4 | Natural Gas Available On Site | No | | | | |
| Front Elevation | Orientation (S) | Gross Area 540 | sqft. | Glazing Area 0 | sqft. | Glazing Ratio 0.0 % | |
| Left Elevation | (W) | 123 | sqft. | 0 | sqft. | 0.0 % | |
| Rear Elevation | (N) | 1,806 | sqft. | 62 | sqft. | 3.4 % | |
| Right Elevation | (E) | 1,388 | sqft. | 62 | sqft. | 4.4 % | |
| Total | | 3,856 | sqft. | 123 | sqft. | 3.2 % | |
| Roof | | 2,692 | sqft. | 0 | sqft. | 0.0 % | |
| Prescriptive Lighting Power Density | Standard 0.850 | W/sqft. | Proposed 0.850 | W/sqft. | Prescriptive Values for Comparison only. See | | |
| Prescriptive Envelope TDV Energy | 158,324 | | 225,216 | | LTG-1C for allowed LPD. | | |
| Remarks: | | | | | | | |
| | | | | | | | |
| EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-12T10:15:28 ID: 6510 Page 2 of 28 | | | | | | | |

| PROJECT NAME | | | (Part 1 of 3) | | DATE | |
|--|--|--|---|--|-----------------------------------|--|
| Project Name Diane Mironowski | | | Climate Zone CA Climate Zone 13 | | Date 4/12/2012 | |
| Project Address 6107 Woodmere Drive Bakersfield | | | Total Cond. Floor Area 1,448 | | Addition Floor Area n/a | |
| GENERAL INFORMATION | | | | | | |
| Building Type: <input checked="" type="checkbox"/> Nonresidential <input type="checkbox"/> High-Rise Residential <input type="checkbox"/> Hotel/Motel Guest Room | | | | | | |
| <input type="checkbox"/> Relocatable - indicate <input type="checkbox"/> specific climate zone <input type="checkbox"/> all climates | | | | | | |
| Phase of Construction: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Addition <input type="checkbox"/> Alteration | | | | | | |
| STATEMENT OF COMPLIANCE | | | | | | |
| This certificate of compliance lists the building features and specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to a Building using the performance compliance approach. | | | | | | |
| The documentation author hereby certifies that the documentation is accurate and complete. | | | | | | |
| Documentation Author | | | | | | |
| Name | | | Signature  | | | |
| Company Pasquini Engineering | | | Date 4/12/2012 | | | |
| Address | | | Phone | | | |
| City/State/Zip | | | | | | |
| The Principal Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the energy efficiency requirements contained in sections 110, 116 through 118, and 140 through 149 of Title 24, Part 6. Please check one: | | | | | | |
| ENV. LTG. MECH. | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div> <div style="width: 80%;"> <p>I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.</p> <p>I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.</p> </div> </div> | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div> <div style="width: 80%;"> <p>I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.</p> </div> </div> | | | | | | |
| Principal Envelope Designer | | | | | | |
| Name Marc Pasquini | | | Signature  | | | |
| Company Pasquini Engineering | | | Date | | | |
| Address 903 H Street Ste. 300 | | | License # | | | |
| City/State/Zip Bakersfield, CA 93304 | | | Phone 661-328-9600 | | | |
| Principal Mechanical Designer | | | | | | |
| Name Marc Pasquini | | | Signature  | | | |
| Company Pasquini Engineering | | | Date | | | |
| Address 903 H Street Ste. 300 | | | License # | | | |
| City/State/Zip Bakersfield, CA 93304 | | | Phone 661-328-9600 | | | |
| Principal Lighting Designer | | | | | | |
| Name Marc Pasquini | | | Signature  | | | |
| Company Pasquini Engineering | | | Date | | | |
| Address 903 H Street Ste. 300 | | | License # | | | |
| City/State/Zip Bakersfield, CA 93304 | | | Phone 661-328-9600 | | | |
| INSTRUCTIONS TO APPLICANT COMPLIANCE & WORKSHEETS (check box if worksheets are included) | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> ENV-1C Certificate of Compliance, Required on plans. <input checked="" type="checkbox"/> LTG-1C Certificate of Compliance, Required on plans. <input type="checkbox"/> LTG-2C Lighting Controls Credit Worksheet. <input type="checkbox"/> LTG-3C Indoor Lighting Power Allowance. </div> <div style="width: 45%;"> <input type="checkbox"/> MECH-1C Certificate of Compliance, Required on plans. <input type="checkbox"/> MECH-2C Air/Water Side/Service Hot Water & Pool Requirements. <input type="checkbox"/> MECH-3C Mechanical Ventilation and Exhaust. <input type="checkbox"/> MECH-5C Mechanical Equipment Details. </div> </div> | | | | | | |
| EnergyPro 5.1 by EnergySoft User Number: 20426 | | | RunCode: 2012-04-12T10:15:28 | | ID: 6510 | |
| Page 1 of 28 | | | | | | |

[illegible][illegible][illegible]

| CERTIFICATE OF COMPLIANCE | | | | | | | | | | (Part 1 of 3) | | ENV-102 | |
|---|-------------------|--|--|---|---|---|-------------------|--|-------------------------|-----------------------------------|--------------------------|--------------------------|--------------------------|
| AND FIELD INSPECTION ENERGY CHECKLIST | | | | | | | | | | | | | |
| Project Name Diane Mironowski | | | | | | | | | | Date 4/12/2012 | | | |
| Project Address 6107 Woodmere Drive Bakersfield | | | | | | Climate Zone 13 | | Total Cond. Floor Area 1,448 | | Addition Floor Area n/a | | | |
| GENERAL INFORMATION | | | | | | | | | | | | | |
| Building Type: | | <input checked="" type="checkbox"/> Nonresidential | <input type="checkbox"/> High-Rise Residential | <input type="checkbox"/> Hotel/Motel Guest Room | | | | | | | | | |
| <input type="checkbox"/> Schools (Public School) | | <input type="checkbox"/> Relocatable Public School Bldg. | | <input type="checkbox"/> Conditioned Spaces | | <input type="checkbox"/> Unconditioned Spaces | | | | | | | |
| <input type="checkbox"/> Skylight Area for Large Enclosed Space ≥ 8000 ft ² (If checked include the ENV-4C with submittal) | | | | | | | | | | | | | |
| Phase of Construction: | | <input checked="" type="checkbox"/> New Construction | <input type="checkbox"/> Addition | | <input type="checkbox"/> Alteration | | | | | | | | |
| Approach of Compliance: | | <input type="checkbox"/> Component | <input checked="" type="checkbox"/> Overall Envelope | | <input type="checkbox"/> Unconditioned (file affidavit) | | | | | | | | |
| Front Orientation: N, E, S, W or in Degrees: <u>180 deg</u> | | | | | | | | | | | | | |
| FIELD INSPECTION ENERGY CHECKLIST | | | | | | | | | | | | | |
| OPAQUE SURFACE DETAILS | | | | | | | INSULATION | | | | | | |
| Tag/ID | Assembly Type | Area (ft ²) | Orientation N, E, S, W | U-Factor | Cavity R-Value | Exterior R-Value | Exterior Furring* | Interior R-Value | Interior Furring* | Joint Appendix 4 | Condition Status | Pass | Fail? |
| 11 | Slab | 68 | (N) | 0.730 | None | | | | | 4.4.7-A1 | New | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 | Wall | 54 | (N) | 0.102 | R-19 | | | | | 4.3.1-A3 | New | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | Wall | 727 | (E) | 0.065 | R-19 | | | | | 4.3.1-A7 | New | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | Door | 196 | (E) | 1.450 | None | | | | | 4.5.1-A6 | New | <input type="checkbox"/> | <input type="checkbox"/> |
| 15 | Door | 196 | (E) | 1.450 | None | | | | | 4.5.1-A6 | New | <input type="checkbox"/> | <input type="checkbox"/> |
| 16 | Wall | 1,224 | (N) | 0.690 | None | | | | | 4.3.5-A10 | New | <input type="checkbox"/> | <input type="checkbox"/> |
| 17 | Wall | 540 | (S) | 0.690 | None | | | | | 4.3.5-A10 | New | <input type="checkbox"/> | <input type="checkbox"/> |
| 18 | Roof | 2,017 | (N) | 0.031 | R-30 | | | | | 4.2.1-A20 | New | <input type="checkbox"/> | <input type="checkbox"/> |
| 19 | Slab | 2,017 | (N) | 0.730 | None | | | | | 4.4.7-A1 | New | <input type="checkbox"/> | <input type="checkbox"/> |
| 1. See Instructions in the Nonresidential Compliance Manual, page 3-96. 2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. A fail does not meet compliance. | | | | | | | | | | | | | |
| FENESTRATION SURFACE DETAILS | | | | | | | | | | | | | |
| Tag/ID | Fenestration Type | Area (ft ²) | Orientation N, E, S, W | Max U-Factor | U-Factor Source | Max (R)SHGC | SHGC Source | Overhang | Conditions Satisfactory | Pass | Fail? | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| | | | | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 1. See Instructions in the Nonresidential Compliance Manual, page 3-96. 2. If Fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary. | | | | | | | | | | | | | |
| EnergyPro 5.1 by EnergySoft | | User Number: 20426 | | RunCode: 2012-04-12T10:15:28 | | | | ID: 6510 | | Page 5 of 28 | | | |

[illegible]

| CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST | | | | (Part 1 of 4) | | MECH-10 | |
|---|--|-----------------------------------|--|--|--|---|--|
| Project Name Diane Mironowski | | | | Date 4/12/2012 | | | |
| Project Address 6107 Woodmere Drive Bakersfield | | | | Climate Zone 13 | | Total Cond. Floor Area 1,448 | |
| Addition Floor Area n/a | | | | | | | |
| GENERAL INFORMATION | | | | | | | |
| Building Type: <input checked="" type="checkbox"/> Nonresidential <input type="checkbox"/> High-Rise Residential <input type="checkbox"/> Hotel/Motel Guest Room | | | | | | | |
| <input type="checkbox"/> Schools (Public School) <input type="checkbox"/> Relocatable Public School Bldg. <input checked="" type="checkbox"/> Conditioned Spaces <input type="checkbox"/> Unconditioned Spaces (affidavit) | | | | | | | |
| Phase of Construction: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Addition <input type="checkbox"/> Alteration | | | | | | | |
| Approach of Compliance: <input type="checkbox"/> Component <input type="checkbox"/> Overall Envelope TDV Energy <input type="checkbox"/> Unconditioned (file affidavit) | | | | | | | |
| Front Orientation: N, E, S, W or in Degrees: 180 deg | | | | | | | |
| HVAC SYSTEM DETAILS | | | | FIELD INSPECTION ENERGY CHECKLIST | | | |
| | | Inspection Criteria | | Meets Criteria or Requirements | | | |
| Equipment² | | | | Pass | | Fail – Describe Reason² | |
| Item or System Tags (i.e. AC-1, RTU-1, HP-1) | | Bradford-White Corp. M240L**(S/B) | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Equipment Type ³ : | | Electric Res HW Boiler | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Number of Systems | | 1 | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Max Allowed Heating Capacity ¹ | | 0 Btu/hr | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Minimum Heating Efficiency ¹ | | 100 % | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Max Allowed Cooling Capacity ¹ | | n/a | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Cooling Efficiency ¹ | | n/a | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Duct Location/ R-Value | | n/a | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| When duct testing is required, submit MECH-4A & MECH-4-HERS | | n/a | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Economizer | | n/a | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Thermostat | | n/a | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Fan Control | | n/a | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| FIELD INSPECTION ENERGY CHECKLIST | | | | FIELD INSPECTION ENERGY CHECKLIST | | | |
| Equipment² | | Inspection Criteria | | Pass | | Fail – Describe Reason² | |
| Item or System Tags (i.e. AC-1, RTU-1, HP-1) | | System 1 | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Equipment Type ³ : | | Single Package Vertical Unit | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Number of Systems | | 1 | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Max Allowed Heating Capacity ¹ | | 67,000 Btu/hr | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Minimum Heating Efficiency ¹ | | 3.30 COP | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Max Allowed Cooling Capacity ¹ | | 70,000 Btu/hr | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Cooling Efficiency ¹ | | 12.0 EER | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Duct Location/ R-Value | | Attic, Ceiling Ins, vented / 8.0 | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| When duct testing is required, submit MECH-4A & MECH-4-HERS | | No | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Economizer | | No Economizer | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Thermostat | | Setback Required | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| Fan Control | | Constant Volume | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| <p>1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submittal or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.</p> <p>2. For additional detailed discrepancy use Page 2 of the Inspection Checklist Form. Compliance fails if a Fail box is checked.</p> <p>3. Indicate Equipment Type: Gas (Pkg or Split), VAV, HP (Pkg or split), Hydronic, PTAC, or other.</p> | | | | | | | |
| EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-12T10:15:28 | | | | ID: 6510 | | Page 11 of 28 | |

[illegible][illegible]

| | | | | | |
|---------------------------------------|--|---------------|--|----------------|--|
| WATER SIDE SYSTEM REQUIREMENTS | | (Part 2 of 2) | | MECH-2C | |
| Project Name | | | | Date | |
| Diane Mironowski | | | | 4/12/2012 | |

| | | | | | |
|--|--|----------------------------|--|-----------|--|
| WATER² SIDE SYSTEMS: Chillers, Towers, Boilers, Hydronic Loops | | | | | |
| Item or System Tags (i.e. AC-1, RTU-1, HP-1) | | dford-White Corp. M240L**S | | | |
| Number of Systems | | 1 | | | |
| Indicate Page Reference on Plans or Specification² | | | | | |
| T-24 Sections | | | | | |
| Equipment Efficiency | | 112(a) | | 100 % | |
| Pipe Insulation | | 123 | | HW Piping | |

| | | | | | |
|----------------------------------|--|------------|--|-----|--|
| PRESCRIPTIVE REQUIREMENTS | | | | | |
| Cooling Tower Fan Controls | | 144(a & b) | | n/a | |
| Cooling Tower Flow Controls | | 144(h) | | n/a | |
| Variable Flow System Design | | 144(h) | | n/a | |
| Chiller and Boiler Isolation | | 144(i) | | n/a | |
| CHW and HHW Reset Controls | | 144(j) | | n/a | |
| WLHP Isolation Valves | | 144(j) | | n/a | |
| VSD on CHW, CW & WLHP Pumps>5HP | | 144(j) | | n/a | |
| DP Sensor Location | | 144(j) | | n/a | |

- The proposed equipment needs to match the building plans schedule or specifications. If a requirement is not applicable, put "N/A" in the column next to applicable section.
- For each chiller, cooling tower, boiler, and hydronic loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column next to applicable section.

| | | | | | |
|---|--|-------------|--|--|--|
| Service Hot Water, Pool Heating | | | | | |
| Item or System Tags (i.e. WH-1, WHF, DHW, etc...)¹ | | | | | |
| Number of Systems | | | | | |
| Indicate Page Reference on Plans or Schedule² | | | | | |
| T-24 Sections | | | | | |
| Certified Water Heater | | 111, 113(a) | | | |
| Water Heater Efficiency | | 113(b) | | | |
| Service Water Heating Installation | | 113(c) | | | |
| Pipe Insulation | | 123 | | | |

| | | | | | |
|-------------------------------------|--|--------|--|--|--|
| POOL AND SPA | | | | | |
| Pool and Spa Efficiency and Control | | 114(a) | | | |
| Pool and Spa Installation | | 114(b) | | | |
| Pool Heater – No Pilot Light | | 115(c) | | | |
| Spa Heater – No Pilot Light | | 115(d) | | | |
| Pipe Insulation | | 123 | | | |

- The Proposed equipment needs to match the building plans schedule or specifications. If a requirement is not applicable, put "N/A" in the column next to applicable section.
- For each water heater, pool heater and domestic water loop (or groups of similar equipment) fill in the reference to sheet number and/or specification section and paragraph number where the required features are documented. If a requirement is not applicable, put "N/A" in the column.

| | | | | | | | | | |
|-----------------------------|--|--------------------|--|------------------------------|--|----------|--|---------------|--|
| EnergyPro 5.1 by EnergySoft | | User Number: 20426 | | RunCode: 2012-04-12T10:15:28 | | ID: 6510 | | Page 16 of 28 | |
|-----------------------------|--|--------------------|--|------------------------------|--|----------|--|---------------|--|

| PROJECT INFORMATION | | PART 1 OF 2 | | MECH-20 | |
|---|--|--------------------------|--|----------------------------------|--|
| Project Name Diane Mironowski | | Date 4/12/2012 | | | |
| Item or System Tags (i.e. AC-1, RTU-1, HP-1) | | | | | |
| Indicate Air Systems Type (Central, Single Zone, Package, VAV, or etc...) | | | | | |
| Number of Systems | | System 1 | | | |
| | | 1 | | | |
| Indicate Page Reference on Plans or Schedule and indicate the applicable exception(s) | | | | | |
| MANDATORY MEASURES | | | | | |
| T-24 Sections | | | | | |
| Heating Equipment Efficiency | | 112(a) | | 3.30 COP | |
| Cooling Equipment Efficiency | | 112(g) | | 12.0 EER | |
| HVAC Heat Pump Thermostat | | 112(b), 112(c) | | Yes | |
| Furnace Controls/Thermostat | | 112(c), 115(a) | | n/a | |
| Natural Ventilation | | 121(b) | | No | |
| Mechanical Ventilation | | 121(b) | | 492 cfm | |
| VAV Minimum Position Control | | 121(c) | | No | |
| Demand Control Ventilation | | 121(c) | | No | |
| Time Control | | 122(e) | | Programmable Switch | |
| Setback and Setup Control | | 122(e) | | Setback Required | |
| Outdoor Damper Control | | 122(f) | | Auto | |
| Isolation Zones | | 122(g) | | n/a | |
| Pipe Insulation | | 123 | | | |
| Duct Location/ R-value | | 124(c) | | Attic, Ceiling Ins, vented / 8.0 | |
| PRESCRIPTIVE MEASURES | | | | | |
| Calculated Design Heating Load | | 144(a & b) | | n/a | |
| Proposed Heating Capacity | | 144(a & b) | | 41,846 Btu/hr | |
| Proposed Cooling Load | | 144(a & b) | | n/a | |
| Proposed Cooling Capacity | | 144(a & b) | | 0 Btu/hr | |
| Fan Control | | 144(c) | | Constant Volume | |
| DP Sensor Location | | 144(c) | | | |
| Supply Pressure Reset (DDC only) | | 144(c) | | Yes | |
| Simultaneous Heat/Cool | | 144(d) | | No | |
| Economizer | | 144(e) | | No Economizer | |
| Heat Air Supply Reset | | 144(f) | | Constant Temp | |
| Cool Air Supply Reset | | 144(f) | | Constant Temp | |
| Electric Resistance Heating ¹ | | 144(g) | | | |
| Air Cooled Chiller Limitation | | 144(i) | | | |
| Duct Leakage Sealing. If Yes, a MECH-4-A must be submitted | | 144(k) | | No | |
| 1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used explain which exception(s) to §144(g) apply. | | | | | |
| EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-12T10:15:28 ID: 6510 Page 15 of 28 | | | | | |

[illegible]

| CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST | | | | | | | | | | | (Part 3 of 4) | MECH-1A | |
|--|-------------------------------------|-------------------------------------|--------------------------|--------------------------------|--------------------------|--------------------------|--------------------------|---------------------------------|-------------------------------|--------------------------|--------------------------|----------------|--|
| Project Name Diane Mironowski | | | | | | | | | | | Date 4/12/2012 | | |
| Required Acceptance Tests | | | | | | | | | | | | | |
| Designer: This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes off by acceptance tests that apply and listed all equipment that requires an acceptance test. If all equipment of a certain type require a test, list the equipment designation and the number of systems. The NA number designates the Section in the Appendix or the Nonresidential Reference Approaches Manual that describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. | | | | | | | | | | | | | |
| BUILDING DEPARTMENTS: Systems Acceptance: Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices saving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. Systems Acceptance: Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements. | | | | | | | | | | | | | |
| The MECH-1C form is not considered a completed form and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance Test must be conducted. The following checks-off items are required for ALL newly installed equipment. In addition a Certificate of Acceptance forms shall be submitted to the building department that certifies plans, specifications, installation, certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title-24 Part 6. The building inspector must receive the properly filled out and signed forms before the building can receive final occupancy. | | | | | | | | | | | | | |
| TEST DESCRIPTION | MECH-1A | MECH-3A | MECH-4A | MECH-5A | MECH-6A | MECH-7A | MECH-8A | MECH-9A | MECH-10A | MECH-11A | | | |
| Oxy Ventilation Per VAV & CAV | Constant Volume & Single-Zone Units | Air Distribution Ducts | Economizer Controls | Demand Control Ventilation DCV | Supply Fan VAV | Valve Leakage Test | Supply Water Temp. Reset | Synthetic Variable Flow Control | Automatic Demand Shed Control | | | | |
| Equipment Requiring Testing or Verification | Qty. | | | | | | | | | | | | |
| Bradford-White Corp. M240L ("S/B") | 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| Temptar RSHSOT2HLSJ*****A | 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | |

APPROVED
JUL 11 2012

PER CALIF. TITLE 24, A/C FANS SHALL START ONE HOUR BEFORE OPENING AND RUN UNTIL END OF BUSINESS DAY.

PER CALIF. TITLE 24, AN AIR BALANCING REPORT AND OUTSIDE AIR CERTIFICATION SHALL BE SUBMITTED TO THE CITY BUILDING DEPARTMENT BEFORE OCCUPANCY.

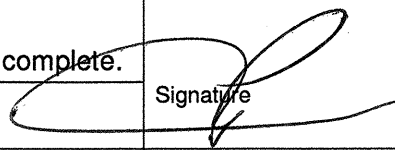
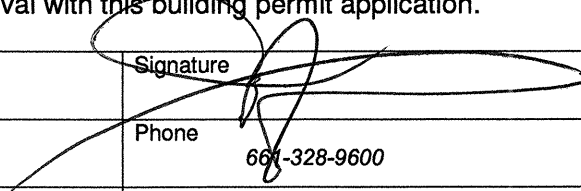
[illegible][illegible]

| MECHANICAL EQUIPMENT DETAILS | | | | | | | | | | (Part 1 of 2) | | MECH-CO | |
|--|--|------------------------------|------------------|------------|-------------|------------------------------|---------------------|-----------------------|---------------------|-------------------|--|---------|--------------------------|
| Project Name Diane Mironowski | | | | | | | | | | Date 4/12/2012 | | | |
| CHILLER AND TOWER SUMMARY | | | | | | | | | | | | | |
| Equipment Name | | Type | Qty. | Efficiency | Tons | Qty. | GPM | BHP | Pump Control | PUMPS | | | |
| | | | | | | | | | | | | | |
| DHW / BOILER SUMMARY | | | | | | | | | | | | | |
| System Name | | Type | Distribution | Qty. | Rated Input | Vol. (Gals.) | Energy Factor or RE | Standby Loss or Pilot | Tank Ext. R-Value | Status | | | |
| Bradford-White Corp. M240L118B | | Small Elec. | Hydronic Heating | 1 | 0 | 40 | 100.0 % | n/a | n/a | New | | | |
| MULTI-FAMILY CENTRAL WATER HEATING DETAILS | | | | | | | | | | | | | |
| Control | | Qty. | HP | Type | In Plenum | Hot Water Piping Length (ft) | | | Add 1/2" Insulation | | | | |
| | | | | | | | | | | | | | <input type="checkbox"/> |
| | | | | | | | | | | | | | <input type="checkbox"/> |
| CENTRAL SYSTEM RATINGS | | | | | | | | | | | | | |
| System Name | | Type | Qty. | HEATING | | | COOLING | | | Status | | | |
| | | | | Output | Aux. kW | Efficiency | Output | Efficiency | | | | | |
| Temstar RHSG72(H,L,S)*****A | | Single Package Vertical Unit | 1 | 67,000 | 0.0 | 3.30 COP | 70,000 | | 12.0 EER | New | | | |
| CENTRAL SYSTEM FAN SUMMARY | | | | | | | | | | | | | |
| System Name | | Fan Type | Economizer Type | | | SUPPLY FAN | | | RETURN FAN | | | | |
| | | | | | | CFM | BHP | CFM | BHP | | | | |
| Temstar RHSG72(H,L,S)*****A | | Constant Volume | No Economizer | | | 600 | 0.06 | | | none | | | |
| EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-12T10:15:28 ID: 6510 Page 18 of 28 | | | | | | | | | | | | | |

[illegible]

| CERTIFICATE OF COMPLIANCE | | (Part 3 of 4) | | OLTG-2A | |
|---|-------------|--|--------------------------------|---|--------------------------------|
| Project Name <i>Diane Mironowski</i> | | | | Date 4/12/2012 | |
| A. OUTDOOR LIGHTING ZONE | | | | | |
| OUTDOOR LIGHTING ZONE: | | <input type="checkbox"/> OLZ 1 | <input type="checkbox"/> OLZ 2 | <input checked="" type="checkbox"/> OLZ 3 | <input type="checkbox"/> OLZ 4 |
| Is the Outdoor Lighting Zone: | | <input checked="" type="checkbox"/> Default in accordance with §10-114, or <input type="checkbox"/> Amended by JHA | | | |
| Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA): | | | | | |
| <input type="checkbox"/> The site is a government designated park, recreational area, wildlife preserve, or portion thereof, and has been designated as LZ2 or LZ3, in accordance with Table 10-114-A, because the site is contained within such a zone. <input type="checkbox"/> The local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the Energy Commission by providing the materials required in §10-114(d) to the Executive Director. <input type="checkbox"/> The adopted change is posted on the Energy Commission website. | | | | | |
| B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS | | | | | |
| Are additional lighting power allowances for allowance in Table 147-C used? | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| Complete the information below if additional lighting power allowances for ordinance requirements are used: | | | | | |
| <input type="checkbox"/> The local jurisdiction having authority has officially adopted specific outdoor light levels, which are expressed as average or minimum footcandle levels, by following a public process that allowed for formal public notification, review, and comment about the proposed change. <input type="checkbox"/> The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required §10-114(f) to the Executive Director. | | | | | |
| C. ACCEPTANCE FORMS | | | | | |
| Required Acceptance Tests | | | | | |
| Designer: | | | | | |
| This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, OLTG-2A . The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party's budget for the scope of work appropriately. Forms can be grouped by type of Luminaires controlled. | | | | | |
| Systems Acceptance Agency: | | | | | |
| This form is to be accepted. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The OLTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the OLTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records. | | | | | |
| | | | | | Certificate of Acceptance |
| | | Luminaires Controlled | | OLTG-2A ¹ | |
| Equipment Requiring Testing | Description | Qty. of Like Controls | Location | Outdoor Lighting Acceptance Tests | |
| | | | | | |
| | | | | | |
| | | | | | |
| 1. Insert: OMS for Outdoor Motion Sensor; OLSC for Outdoor Lighting Shutoff Controls; OP for Outdoor Photocontrol; ATS for Astronomical Time Switch; and, STS for Standard (non-astronomical) Time Switch acceptance. <i>EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-12T10:15:28 ID: 6510 Page 24 of 28</i> | | | | | |

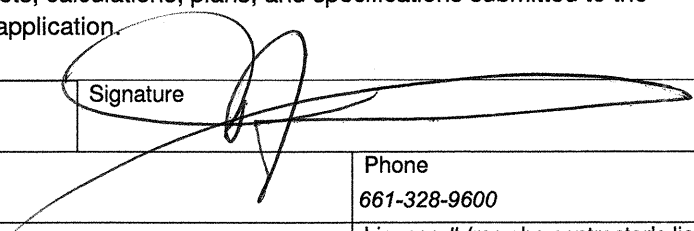
[illegible]

| | | | |
|--|---------|--|----------------|
| CERTIFICATE OF COMPLIANCE | | (Part 1 of 4) | OLTG-1C |
| Project Name Diane Mironowski | | Date 4/12/2012 | |
| Project Address 6107 Woodmere Drive Bakersfield, CA | | Total Illuminated Area 0 | |
| GENERAL INFORMATION | | | |
| Phase of Construction: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Addition <input type="checkbox"/> Alteration | | | |
| Documentation Author's Declaration Statement | | | |
| I certify that this Certificate of Compliance documentation is accurate and complete. | |  Signature | |
| Name | | | |
| Company Pasquini Engineering | | | |
| Address | | Date 4/12/2012 | |
| City/State/Zip | | CEA # CEPE # Phone | |
| Principal Lighting Designer's Declaration Statement | | | |
| <ul style="list-style-type: none"> I am eligible under Division 3 of the California Business and Professional Code to accept responsibility for the lighting design. This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations. The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. | | | |
| Name Marc Pasquini | |  Signature | |
| Company Pasquini Engineering | | | |
| Address 903 H Street Ste. 300 | | | |
| City/State/Zip Bakersfield, CA 93304 | | Phone 805-328-9600 License # Date | |
| Principal Lighting Designer's Declaration | | | |
| <input checked="" type="checkbox"/> I certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area, in accordance with Section 147 of the Standards. | | | |
| Outdoor Lighting Mandatory Measures | | | |
| Indicate location on building plans of Mandatory Measures Note Block: _____ | | | |
| LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheets is included) | | | |
| For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission. | | | |
| <input checked="" type="checkbox"/> | OLTG-1C | Certificate of Compliance, All 4 pages required on plans for all submittals. | |
| <input type="checkbox"/> | OLTG-2C | (Pages 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting. Optional on plans. | |
| <input type="checkbox"/> | OLTG-2C | (Pages 2 of 3) Lighting Wattage Allowance for Per Application or Per Area. Optional on plans. | |
| <input type="checkbox"/> | OLTG-2C | (Pages 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans. | |
| EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-12T10:15:28 ID: 6510 Page 22 of 28 | | | |

[illegible]

| MECHANICAL MANDATORY MEASURES: NONRESIDENTIAL | | MECH-MM |
|--|--|---------|
| Project Name <i>Diane Mironowski</i> | Date <i>4/12/2012</i> | |
| Equipment and System Efficiencies | | |
| §111: | Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard. | |
| §115(a): | Fan type central furnaces shall not have a pilot light. | |
| §123: | Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123. | |
| §124: | Air handling duct systems shall be installed and insulated in compliance with Sections 601, 602, 603, 604, and 605 of the CMC Standards. | |
| Controls | | |
| §122(e): | Each space conditioning system shall be installed with one of the following: | |
| 1A. | Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or | |
| 1B. | An occupancy sensor to control the operating period of the system; or | |
| 1C. | A 4-hour timer that can be manually operated to control the operating period of the system. | |
| 2. | Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the 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 more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above. | |
| §122(c): | Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel. | |
| §122(b): | Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the 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 temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum. | |
| Ventilation | | |
| §121(e): | Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans. | |
| §122(f): | All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings. | |
| §121(f): | Ventilation System Acceptance. Before an occupancy permit is granted for a newly constructed building or space, or a new ventilating system serving a building or space is operated for normal use, all ventilation systems serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance | |
| Service Water Heating Systems | | |
| §113(c) | Installation | |
| 3. | Temperature controls for public lavatories. The controls shall limit the outlet Temperature to 110° F. | |
| 2. | Circulating service water-heating systems shall have a control capable of automatically turning off the circulating pump when hot water is not required. | |
| EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-12T10:15:28 ID: 6510 Page 28 of 28 | | |

| CERTIFICATE OF COMPLIANCE (SIGN LIGHTING) | | (Part 2 of 4) | SLTG-1C |
|---|--|---------------|---------|
| Project Name <i>Diane Mironowski</i> | Date <i>4/12/2012</i> | | |
| 3. Mandatory Sign Lighting Controls | | | |
| NOTES: 1. The Mandatory Measures (sign lighting controls) are required for compliance with the sign lighting Standards. The same responsible person may install both the sign and the sign lighting controls, or a different responsible person may install the sign lighting controls than the responsible person installing the sign. 2. If the person responsible for installing the sign is not also responsible for the sign lighting controls, then the owner of the sign, general contractor, or architect shall be responsible to have the sign lighting controls installed. 3. If more than one person has responsibility for compliance, each person shall prepare and sign a Certificate of Compliance and an Installation Certificate applicable to the portion of construction for which they are responsible; alternatively, the person with chief responsibility for construction shall prepare and sign the Certificate of Compliance Declaration Statement for the entire construction. | | | |
| 3a. Statements of Responsibility: The person signing the Certificate of Compliance Declaration Statement shall check Yes or No for all of the following statements: | | | |
| 1 | I have responsibility for installing the sign lighting controls <input type="checkbox"/> Yes, complete parts 3a and 3b of this form <input type="checkbox"/> No, complete part 3a of this form | | |
| 2 | There are no existing sign lighting controls and I will be installing compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 3 | There are no existing sign lighting controls and someone else will be responsible to install compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 4 | There are existing sign lighting controls that do not comply with the applicable provision of §119 and §133 and I will be installing compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 5 | There are existing sign lighting controls that do not comply with the applicable provision of §119 and §133 and someone else will be responsible to install compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 3b. Mandatory Sign Lighting Controls The person signing the Certificate of Compliance Declaration Statement shall answer all of the following questions if they are responsible for complying with the sign lighting control requirements. If there are construction documents, indicate where on the building plans the mandatory measures (sign lighting control) note block can be located: | | | |
| 1 | §133(a)1. All indoor sign lighting is controlled with an automatic time switch control that complies with the applicable requirements of §119. <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA | | |
| 2 | §133(a)1 and 2. All outdoor sign lighting is controlled with an automatic time switch control plus a photo control, or an outdoor astronomical time switch, that comply with the applicable requirements of §119. Exception to §133(a)2. Outdoor signs in tunnels or large covered areas that require illumination during daylight hours. <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA | | |
| 3 | §133(a)3. All outdoor signs are controlled with a dimmer that provides the ability to automatically reduce sign power by a minimum of 65 percent during nighttime hours. Exception 1 to §133(a)3. Signs illuminated for less than one hour per day during daylight hours. <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Exception 2 to §133(a)3. Outdoor signs in tunnels or large covered areas that require illumination during daylight hours. <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA Exception 3 to §133(a)3. Only metal halide, high pressure sodium, cold cathode, or neon lamps used for illuminating signs or parts of signs. <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA | | |
| 4 | §133(a)4. An Electronic Message Center (EMC) having a new connected lighting power load greater than 15 kW has a control installed capable of reducing the lighting power by a minimum of 30 percent when receiving a demand response signal that is sent out by the local utility. Exception to §133(a)4. EMC required by a health or life safety statute, ordinance, or regulation, including but not limited to exit signs and traffic signs. <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA | | |
| Field Inspector Notes: | | | |
| EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-12T10:15:28 ID: 6510 Page 27 of 28 | | | |

| CERTIFICATE OF COMPLIANCE (SIGN LIGHTING) | | (Part 1 of 4) | SLTG-1C |
|---|--------------------------|--|---------|
| Project Name <i>Diane Mironowski</i> | Date <i>4/12/2012</i> | | |
| Project Address <i>6107 Woodmere Drive Bakersfield, CA</i> | | | |
| Location of Sign <input type="checkbox"/> Outdoor Signs <input type="checkbox"/> Indoor Signs Phase of Construction <input checked="" type="checkbox"/> New Signs <input type="checkbox"/> Sign Alterations Type of Lighting Control <input type="checkbox"/> New Lighting Controls <input type="checkbox"/> Replaced Lighting Controls <input type="checkbox"/> Not Installing Lighting Controls This Certificate of Compliance includes the following components (check all that apply) <input checked="" type="checkbox"/> Mandatory Measures (Lighting Controls) <input type="checkbox"/> Maximum Allowed Lighting Power <input type="checkbox"/> Specific Lighting Sources | | | |
| 1. Certificate of Compliance Declaration Statement (this may be a C10, C45 or other eligible person) • I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct. • I am eligible under the Division 3 of the California Business and Professions Code to accept responsibility for the lighting design. • This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title-24, Parts 1 and 6 of the California Code of Regulations. • The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans, and specifications submitted to the enforcement agency for approval with this building permit application. | | | |
| Name <i>Marc Pasquini</i> | | Signature  | |
| Company <i>Pasquini Engineering</i> | | Phone <i>661-328-9600</i> | |
| Address <i>903 H Street Ste. 300</i> | | License # (may be contractor's lic #) | |
| City/State/Zip <i>Bakersfield, CA 93304</i> | | Date | |
| 2. Installation Certificate (to be signed by responsible person after installation) Permit number (Enforcement Agency Use) Check by/Date (Enforcement Agency Use) | | | |
| Installation Declaration statement • I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct. • I am eligible under the Division 3 of the Business and Professional Code to accept responsibility for construction, or an authorized representative of the person responsible for construction. • I certify that the installed features, materials, components, or manufactured devices identified on this certificate conforms to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcement agency. • I certify that the requirements detailed on this Certificate of Compliance have been met. • I will ensure that a completed, signed copy of this Installation Certificate shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Installation Certificate is required to be included with the documentation the bulider provides to the building owner at occupancy. | | | |
| Company Name | | | |
| Responsible Person's Name | | Responsible Person's Signature | |
| License # (may be contractor's lic #) | | Date Signed | |
| | | Position With Company | |
| EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-12T10:15:28 ID: 6510 Page 26 of 28 | | | |

| CERTIFICATE OF COMPLIANCE | | (Part 4 of 4) | OLTG-1C |
|--|---|----------------------------------|---|
| Project Name <i>Diane Mironowski</i> | Date <i>4/12/2012</i> | | |
| ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER | | | |
| | | Lighting Wattage Power Allowance | |
| A | Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3) | | 0 |
| B | Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3) | | 0 |
| C | Specific application lighting wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3) | | 0 |
| D | Specific application lighting wattage allowance per application (from OLTG-2C Page 1 of 3) | | 0 |
| E | Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3) | | 0 |
| F | Specific application lighting wattage allowance for ordinance requirements (from OLTG-2C Page 3 of 3) | | 0 |
| G | Total Allowed Wattage = Sum of rows A through F: | | 0 |
| H | Total installed watts (from Compliance Fixture Schedule, (from OLTG-2C Page 1 of 3) | | 0 |
| Complies if wattage in row H is less than or equal to the wattages in row G | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-12T10:15:28 ID: 6510 Page 25 of 28 | | | |

| CERTIFICATE OF COMPLIANCE (Part 4 of 4) | | OLTG-1C |
|---|---|---|
| Project Name Diane Mironowski | Date 4/11/2012 | |
| ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER | | |
| | Lighting Wattage Power Allowance | |
| A | Lighting power allowance for general landscape (from OLTG-2C Page 1 of 3) | 0 |
| B | Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3) | 0 |
| C | Specific application lighting wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3) | 0 |
| D | Specific application lighting wattage allowance per application (from OLTG-2C Page 2 of 3) | 0 |
| E | Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3) | 0 |
| F | Specific application lighting wattage allowance for ordinance requirements (from OLTG-2C Page 3 of 3) | 0 |
| G | Total Allowed Wattage = Sum of rows A through F | 0 |
| H | Total installed watts (from Compliance Fixture Schedule, from OLTG-2C Page 1 of 3) | 0 |
| Complies if wattage in row H is less than or equal to the wattages in row G | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

| CERTIFICATE OF COMPLIANCE | | |
|---|---|---|
| Project Name Diane Mironowski | Date 4/11/2012 | |
| ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER | | |
| | Lighting Wattage Power Allowance | |
| A | Lighting power allowance for general landscape (from OLTG-2C Page 1 of 3) | 0 |
| B | Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3) | 0 |
| C | Specific application lighting wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3) | 0 |
| D | Specific application lighting wattage allowance per application (from OLTG-2C Page 2 of 3) | 0 |
| E | Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3) | 0 |
| F | Specific application lighting wattage allowance for ordinance requirements (from OLTG-2C Page 3 of 3) | 0 |
| G | Total Allowed Wattage = Sum of rows A through F | 0 |
| H | Total installed watts (from Compliance Fixture Schedule, from OLTG-2C Page 1 of 3) | 0 |
| Complies if wattage in row H is less than or equal to the wattages in row G | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-11T17:03:22 ID: 6510 Page 25 of 28

| CERTIFICATE OF COMPLIANCE (SIGN LIGHTING) (Part 1 of 4) | | SLTG-1C |
|--|---|---------|
| Project Name Diane Mironowski | Date 4/11/2012 | |
| Project Address 6107 Woodmere Drive Bakersfield, CA | | |
| Location of Sign Phase of Construction Type of Lighting Control | <input type="checkbox"/> Outdoor Signs <input checked="" type="checkbox"/> New Signs <input checked="" type="checkbox"/> New Lighting Controls <input type="checkbox"/> Sign Alterations <input type="checkbox"/> Replaced Lighting Controls <input type="checkbox"/> Not Installing Lighting Controls | |
| This Certificate of Compliance includes the following components (check all that apply): <input checked="" type="checkbox"/> Mandatory Measures (Lighting Controls) <input type="checkbox"/> Maximum Allowed Lighting Power <input type="checkbox"/> Specific Lighting Sources | | |
| 1. Certificate of Compliance Declaration Statement (this may be a C10, C45 or other eligible person) | | |
| <ul style="list-style-type: none">I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct.I am eligible under the Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans, and specifications submitted to the enforcement agency for approval with this building permit application. | | |
| Name Marc Pasquini | Signature | |
| Company Pasquini Engineering | Phone 661-328-9600 | |
| Address 903 H Street Ste. 300 | License # (may be contractor's lic #) | |
| City/State/Zip Bakersfield, CA 93304 | Date | |

| 2. Installation Certificate (to be signed by responsible person after installation) | |
|---|---|
| Permit number (Enforcement Agency Use) | Check by Date (Enforcement Agency Use) |
| Installation Declaration statement | |
| <ul style="list-style-type: none">I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct.I am eligible under the Division 3 of the Business and Professional Code to accept responsibility for construction, or an authorized representative of the person responsible for construction.I certify that the installed features, materials, components, or manufactured devices identified on this certificate conforms to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcement agency.I certify that the requirements detailed on this Certificate of Compliance have been met.I will ensure that a completed, signed copy of this Installation Certificate shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Installation Certificate is required to be included with the documentation the builder provides to the building owner at occupancy. | |
| Company Name | Responsible Person's Name |
| Responsible Person's Signature | Responsible Person's Signature |
| License # (may be contractor's lic #) | Date Signed |
| Position With Company | |

EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-11T17:03:22 ID: 6510 Page 26 of 28

| CERTIFICATE OF COMPLIANCE (SIGN LIGHTING) (Part 2 of 4) | | SLTG-1C |
|---|--|---------|
| Project Name Diane Mironowski | Date 4/11/2012 | |
| 3. Mandatory Sign Lighting Controls | | |
| NOTES: 1. The Mandatory Measures (sign lighting controls) are required for compliance with the sign lighting Standards. The same responsible person may install both the sign and the sign lighting controls, or a different responsible person may install the sign lighting controls than the responsible person installing the sign. 2. If the person responsible for installing the sign is not also responsible for the sign lighting controls, then the owner of the sign, general contractor, or architect shall be responsible to have the sign lighting controls installed. 3. If more than one person has responsibility for compliance, each person shall prepare and sign a Certificate of Compliance and an Installation Certificate applicable to the portion of construction for which they are responsible; alternatively, the person with chief responsibility for construction shall prepare and sign the Certificate of Compliance Declaration Statement for the entire construction. | | |
| 3a. Statements of Responsibility: The person signing the Certificate of Compliance Declaration Statement shall check Yes or No for all of the following statements: | | |
| 1 | I have responsibility for installing the sign lighting controls <input type="checkbox"/> Yes, complete parts 3a and 3b of this form <input type="checkbox"/> No, complete part 3a of this form | |
| 2 | There are no existing sign lighting controls and I will be installing compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 3 | There are no existing sign lighting controls and someone else will be responsible to install compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 4 | There are existing sign lighting controls that do not comply with the applicable provision of §119 and §133 and I will be installing compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 5 | There are existing sign lighting controls that do not comply with the applicable provision of §119 and §133 and someone else will be responsible to install compliant sign lighting controls <input type="checkbox"/> Yes <input type="checkbox"/> No | |

| 3b. Mandatory Sign Lighting Controls | |
|---|--|
| The person signing the Certificate of Compliance Declaration Statement shall answer all of the following questions if they are responsible for complying with the sign lighting control requirements. | |
| If there are construction documents, indicate where on the building plans the mandatory measures (sign lighting control) note block can be located: | |
| 1 | §133(a)1. All indoor sign lighting is controlled with an automatic time switch control that complies with the applicable requirements of §119. <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA |
| 2 | §133(a)1 and 2. All outdoor sign lighting is controlled with an automatic time switch control plus a photo control, or an outdoor astronomical time switch, that complies with the applicable requirements of §119. <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA |
| 3 | §133(a)3. All outdoor signs are controlled with a dimmer that provides the ability to automatically reduce sign power by a minimum of 65 percent during nighttime hours. Exception 1 to §133(a)3. Signs illuminated for less than one hour per day during daylight hours. <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA |
| 4 | Exception 2 to §133(a)3. Outdoor signs in tunnels or large covered areas that require illumination during daylight hours. Exception 3 to §133(a)3. Only metal halide, high pressure sodium, cold cathode, or neon lamps used for illuminating signs or parts of signs. <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA |
| 5 | §133(a)4. An Electronic Message Center (EMC) having a new connected lighting power load greater than 15 kW has a control installed capable of reducing the lighting power by a minimum of 30 percent when receiving a demand response signal that is sent out by the local utility. Exception to §133(a)4. EMC required by a health or life safety statute, ordinance, or regulation, including but not limited to exit signs and traffic signs. <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA |

Field Inspector Notes:

EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-11T17:03:22 ID: 6510 Page 27 of 28

| MECHANICAL MANDATORY MEASURES: NONRESIDENTIAL | | MECH-MM |
|---|-------------------|---------|
| Project Name Diane Mironowski | Date 4/11/2012 | |
| Equipment and System Efficiencies | | |
| §111: Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard. | | |
| §115(a): Fan type central furnaces shall not have a pilot light. | | |
| §123: Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123. | | |
| §124: Air handling duct systems shall be installed and insulated in compliance with Sections 601, 602, 603, 604, and 605 of the CMC Standards. | | |
| Controls | | |
| §122(e): Each space conditioning system shall be installed with one of the following: 1A. Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends and have program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or 1B. An occupancy sensor to control the operating period of the system; or 1C. A 4-hour timer that can be manually operated to control the operating period of the system. | | |
| §122(g): Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above. | | |
| §122(c): Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint steps accessible only to authorized personnel. | | |
| §122(b): Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the 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 temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum. | | |
| Ventilation | | |
| §121(e): Controls shall be provided to allow outside air dampers or devices to be operated at the ventilation rates as specified on these plans. | | |
| §122(f): All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings. | | |
| §121(f): Ventilation System Acceptance. Before an occupancy permit is granted for a newly constructed building or space, or a new ventilating system serving a building or space is operated for normal use, all ventilation systems serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. | | |
| Service Water Heating Systems | | |
| §113(c) Installation 3. Temperature controls for public lavatories. The controls shall limit the outlet Temperature to 110°F. | | |
| 2. Circulating service water-heating systems shall have a control capable of automatically turning off the circulating pump when hot water is not required. | | |

EnergyPro 5.1 by EnergySoft User Number: 20426 RunCode: 2012-04-11T17:03:22 ID: 6510 Page 28 of 28

RECEIVED

APR 13 2012

CITY OF BAKERSFIELD
BUILDING DEPARTMENT

8/8/12
Prior to ISSUANCE NEED
SEI'S PR APPROVAL
GUESS ELECTRICAL APPROVAL

Attention:
Grading Certificate and
Final Soils Report is
Required Prior to
Foundation Inspection

CITY OF BAKERSFIELD BUILDING DEPARTMENT

APPROVED BY SE DATE 6/6/12

THIS SET OF PLANS AND SPECIFICATIONS MUST BE KEPT ON THE PROJECT AT ALL TIMES AND IT IS UNLAWFUL TO MAKE ANY CHANGES OR ALTERATIONS OR MAKE ANY WRITTEN PERMITS FROM THE DEPARTMENT OF BUILDING, CITY OF BAKERSFIELD. THE STAMPING OF THIS PLAN AND SPECIFICATIONS SHALL NOT BE USED TO PERMIT OR TO USE AN APPROVAL OF THE VIOLATION OF ANY PROVISIONS OF ANY CITY ORDINANCE OR STATE LAW.

CLASS OF WORK: New, Alteration, Addition, Demolish, Repair, Move

TR: _____ LOT: _____

USE ZONE: A _____ R _____ C _____ M _____ PCD, PUD _____

TYPE OF CONSTRUCTION: I, II, III, IV, V

OCCUPANCY GROUP: A _____ B _____ E _____ F _____ H _____

1 Hr., H.T., N.F.R. FSpk _____

BUILDING PERMIT NO. _____ DATE _____

All construction must comply with ordinance requirements for curb, gutter, sidewalks and parking.

Attention:
Structural
Tests and Inspections
Required
(See STI Schedule Form)

BR2020H

6107 WOODMARE

SPECIALIST PLAN CHECK DATE 4/13/12

| | |
|---|---|
| <input checked="" type="checkbox"/> ORIGINAL CHECK | <input checked="" type="checkbox"/> BACKCHECK |
| <input checked="" type="checkbox"/> ELECTRICAL <u>4/30</u> OK | <input checked="" type="checkbox"/> CORRECTIONS <u>5/4</u> |
| <input checked="" type="checkbox"/> ELECT. TITLE 24 <u>5/3</u> OK | <input checked="" type="checkbox"/> CORRECTIONS <u>4/13</u> |
| <input checked="" type="checkbox"/> PLUMBING <u>5/10</u> OK | <input checked="" type="checkbox"/> CORRECTIONS <u>4/13</u> |
| <input checked="" type="checkbox"/> MECH GAS <u>5/10</u> OK | <input checked="" type="checkbox"/> CORRECTIONS <u>4/13</u> |
| <input checked="" type="checkbox"/> MECHANICAL <u>5/10</u> OK | <input checked="" type="checkbox"/> CORRECTIONS <u>4/13</u> |
| <input checked="" type="checkbox"/> MECH. TITLE 2 <u>5/10</u> OK | <input checked="" type="checkbox"/> CORRECTIONS <u>4/13</u> |

APPROVED WITH NOTES: ☒ YES ☒ NO

Sewer Connection \$ 3822

Transportation Impact \$ 5198.72

Trunkline (TYPE) \$ _____

Trunkline (TYPE) \$ _____

Initials MS Date 5/22/12

NOTICE
Development Fees
Assembly Bill 3081 (CHAP 549, STATS, 1990) requires each local agency provide the project applicant a statement in writing at the time of imposition of fees or project approval of the amount of fees, description of dedications, reservations, or other exactions and a notification that the 90-day approval period in which the applicant may protest such fees has begun.

This will serve to notify you that the 90-day approval period in which you may protest any imposed fees, description of dedications, reservations or other exactions will begin to run from the approved date as indicated on the building permit which describing the fees, description of dedications, reservations or other exactions.

★ ★ ATTENTION ★ ★

ANY SIGNS SHOWN ON THESE
PLANS ARE NOT APPROVED
AND MAY NOT BE ALLOWED.

ALL SIGNS REQUIRE
SEPARATE SIGN PERMIT

(Bldg. Signs Not to Exceed Roof Line)
(Structural Calculations Required for Pylon Signs)
(Comprehensive Sign Plan May Apply)

Construct new Office
warehouse
30814

6107 WOODMARE