

4640 Dillon Drive
 Pueblo CO 81008
 Location #18709

ARCHITECT

LES ROWLAND
 212 E. HOLLY BOULEVARD
 BRANDON, SD 57005
 PHONE: 605.336.8197
 FAX: 605.582.3814
 CONTACT: LES ROWLAND

PROJECT MANAGER

PRO GROUP INC.
 208 E. HOLLY BOULEVARD
 BRANDON, SD 57005
 PHONE: 605.336.8197
 FAX: 605.582.3814
 CONTACT: WENDEL POTRATZ

MECHANICAL

PRO ENGINEERING, INC.
 406 S. SECOND AVENUE, SUITE 102
 SIOUX FALLS, SD 57104
 PHONE: 605.336.6248
 FAX: 605.336.1191
 CONTACT: LOREN SCHOENEMAN, PE

STRUCTURAL

RISE INCORPORATED
 101 RAILROAD AVENUE
 HARRISBURG, SD 57032
 PHONE: 605.743.2510
 FAX: 605.743.2518
 CONTACT: JUSTIN CHRISTENSEN, P.E.

ELECTRICAL

GEORGE A. BURGERS P.E.
 449 WEST LOOKOUT DRIVE
 PUEBLO, CO 81007-1817
 PHONE: 719.647.1917
 FAX: 719.647.1955

CIVIL ENGINEER

NORTHSTAR ENGINEERING AND SURVEYING, INC.
 111 EAST 5TH STREET
 PUEBLO, CO 81003
 PHONE: 719.544.6823
 FAX: 719.544.6825
 CONTACT: MICHAEL L. CUPPY, P.E.

SOILS

TERRACON CONSULTANTS, INC.
 4172 CENTER PARK DRIVE
 COLORADO SPRINGS CO 80916
 PHONE: 719.597.2116
 FAX: 719.597.2117
 CONTACT: ROBERT M. HERNANDEZ, P.E.

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LEGEND:

	EARTH
	GRAVEL OR CRUSHED ROCK
	POURED CONCRETE
	LIGHTWEIGHT CONCRETE MASONRY
	CONCRETE MASONRY
	BRICK
	PLYWOOD
	FINISH WOOD
	WOOD STUD WALL
	ACOUSTICAL TILE OR BOARD
	CARPET
	BITUMINOUS PAVEMENT
	ROOF OR RIGID INSULATION
	BATT OR LOOSE INSULATION
	LAMINATED WOOD
	DIMENSION LUMBER

ABBREVIATIONS: CONTAINS STANDARD LIST, SOME DESIGNATIONS MAY NOT APPEAR.

A	A.B. ANCHOR BOLT	F	F.D. FLOOR DRAIN	P	PLAM. PLASTIC LAMINATE
A/C	AIR CONDITIONING	F.E.	FIRE EXTINGUISHER	P.L.	PROPERTY LINE
A.H.U.	AIR HANDLING UNIT	F.E.C.	FIRE EXTINGUISHER CAB.	P.S.F.	POUNDS PER SQUARE FOOT
ADJ.	ADJUSTABLE	F.O.F.	FACE OF FINISH	P.S.I.	POUNDS PER SQUARE INCH
A.F.F.	ABOVE FINISHED FLOOR	FDN.	FOUNDATION	P.T.D.	PAPER TONEL DISPENSER
ALT.	ALTERNATE	FIN.	FINISH	P.P.D.	PARTICLE BOARD
ANG.	ANCHOR	FLAS.	FLASHING	PLAS.	PLASTER
A.C.T.	ACOUSTICAL CEILING TILE	FR.	FRAME	PLYWD.	PLYWOOD
APC.	ACOUSTICAL PANEL CEILING	FR.	FRAME	PT.	PAINT
B.M.	BENCH MARK	FT.	FOOT OR FEET	QT.	QUARRY TILE
B.N.	BULL NOSE	FTG.	FOOTING	R.D.	ROOF DRAIN
BD.	BOARD	FLRR.	FLOOR	R.O.	ROUGH OPENING
BT.	BITUMINOUS	G.B.	GRAB BAR	R.V.	ROOF VENT
BLDG.	BUILDING	GA.	GAUGE	RAD.	RADIUS
BLK.	BLOCK	GALV.	GALVANIZED	REC.	RECEPTACLE
BLKG.	BLOCKING	GNE.	GYPSPUM WALLBOARD	REF.	REFRIGERATOR
BM.	BEAM	GNC.	GLAZED WALL COATING	REFL.	REFLECTED
BOT.	BOTTOM	H.	HEIGHT	REINF.	REINFORCED
BRG.	BEARING	H.C.	HOLLOW GORE	REQ.	REQUIRED
C.J.	CONTROL JOINT	H.M.	HOLLOW METAL	RESIL.	RESILIENT
C.T.	CERAMIC TILE	HORIZ.	HORIZONTAL	RM.	ROOM
CAB.	CABINET	HT.	HEIGHT	S.B.	SPLASH BLOCK
CH.BD.	CHALK BOARD	HVAC.	HEATING/VENTILATION/AND AIR CONDITIONING	S.C.	SOLID CORE
CLS.	GLASS	I.D.	INSIDE DIAMETER (DIM.)	S.D.	SOAP DISPENSER
CLR.	CLEAR	INSUL.	INSULATION	S/S	STAINLESS STEEL
CMU	CONCRETE MASONRY UNIT	INT.	INTERIOR	SCHED.	SCHEDULE
COL.	COLUMN	J.B.	JUNCTION BOX	SECT.	SECTION
COMP.	COMPARTMENT	JST.	JOIST	SHR.	SHOWER
CONC.	CONCRETE	JT.	JOINT	SHT.	SHEET
CONT.	CONTINUOUS	L.	LAMINATE	SHV.	SHEET VINYL
CPT.	CARPET	LAV.	LAVATORY	SHTG.	SHEATHING
D.	DEPTH	LTC.	LIGHTING	SIM.	SIMILAR
D.F.	DRINKING FOUNTAIN	LWCM.	LIGHTWEIGHT CONCRETE MASONRY UNIT	SPEC.	SPECIFICATION
D.T.	DOUBLE TEE	M.C.	MECHANICAL CONTRACTOR	STD.	STANDARD
DBL.	DOUBLE	M.O.	MASONRY OPENING	STL.	STEEL
DET.	DETAIL	MAX.	MAXIMUM	STR.	STRUCTURAL
DIA.	DIAMETER	MED.G.	MECHANICAL	SUSP.	SUSPENDED
DIM.	DIMENSION	MED.C.	MEDICINE CABINET	SW.	SWITCH
DISP.	DISPENSER	MET.	METAL	SYM.	SYMMETRICAL
DN.	DOWN	MFR.	MANUFACTURER	T.B.	TOWEL BAR
DR.	DOOR	MIN.	MINIMUM	T.O.C.	TOP OF CONCRETE
DS.	DOWNSPOUT	MIS.	MISCELLANEOUS	T.O.F.	TOP OF FOOTING
DK.	DISHWASHER	MTC.	MOUNTED	T.O.S.	TOP OF STEEL
DNL.	DOWN	N.C.G.	NATIONAL ELECTRIC CODE	T & G	TONGUE AND GROOVE
DNG.	DRAINING	N.I.C.	NOT IN CONTRACT	TP.D.	TOILET PAPER DISPENSER
E.J.	EXPANSION JOINT	N.T.S.	NOT TO SCALE	T.V.	TELEVISION
E.C.	ELECTRICAL CONTRACTOR	NO.	NUMBER	TEL.	TELEPHONE
E.W.G.	ELECTRIC WATER COOLER	NOM.	NOMINAL	TYP.	TYPICAL
E.N.	EACH WAY	N.S.	NOT TO SCALE	UNF.	UNFINISHED
EA.	EACH	NO.	NUMBER	UR.	URINAL
ELEV.	ELEVATION	NOM.	NOMINAL	V.B.	VAPOR BARRIER
ELEG.	ELECTRICAL	O.C.	ON CENTER	V.M.C.	VINYL WALL COVERING
ELEV.	ELEVATOR	O.D.	OUTSIDE DIAMETER (DIM.)	V.C.T.	VINYL COMPOSITION TILE
EXP.	EXPANSION	O.P.	OUTSIDE FACE	W.C.	WATER CLOSET
EXST.	EXISTING	OH.	OVERHEAD	WO.	WOOD
EXT.	EXTERIOR			ND.	WIDTH
				NP.	WATERPROOF

SYMBOLS:

	EXTERIOR ELEVATION
	INTERIOR ELEVATION
	BUILDING SECTION
	WALL SECTION
	DETAIL REFERENCE
	DRAWING TITLE
	ROOM NAME
	ROOM NUMBER
	DOOR NUMBER
	WINDOW NUMBER
	KEYED NOTE
	DATUM ELEVATION
	WALL TYPE

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GENERAL CONSTRUCTION NOTES:

- A. CONTRACTORS TO VERIFY ALL EXISTING CONSTRUCTION, CONDITIONS, DETAILS, DIMENSIONS, EQUIPMENT AND REQUIREMENTS TO IMPLEMENT THIS DOCUMENT.
- B. CONTRACTORS TO OBTAIN ALL NECESSARY APPROVALS AND PERMITS.
- C. CONTRACTORS TO BE RESPONSIBLE FOR PATCHING, MATCHING OR FINISHING OF ANY DAMAGED SITE ELEMENTS ON ADJACENT OR CITY PROPERTY.
- D. CONTRACTORS TO DETERMINE OWNER REQUIREMENTS FOR SCHEDULE, BUILDING DISRUPTION, SITE USAGE, WORK HOURS AND OTHER RESTRICTIONS.
- E. CONTRACTORS TO REVIEW AND APPROVE ALL SUBCONTRACTOR SHOP DRAWINGS.
- F. PROVIDE LINTELS AS REQUIRED AT OPENINGS FOR MECHANICAL UNITS, THROUGH-WALL VENTS AND OTHER OPENINGS.
- G. CONTRACTORS TO BE RESPONSIBLE FOR MAINTENANCE OF SAFE BUILDING ACCESS AND PROTECTION OF PUBLIC DURING CONSTRUCTION. VERIFY ENCLOSURE LOCATION AND DUMPSTER LOCATION WITH OWNER.

BUILDING DESCRIPTION:

HOTEL:
THE HOTEL IS A FOUR STORY, 1-HOUR STRUCTURE PROTECTED WITH AN AUTOMATIC NFPA-13 FIRE SPRINKLER SYSTEM. THE BUILDING IS USED FOR TRANSIENT LODGING. ACCESSORY SPACES ON THE FIRST FLOOR INCLUDE REGISTRATION, LOBBY, BUSINESS OFFICES, EXERCISE, CUPBOARD, LAUNDRY AND MECH. / ELEC. ROOMS.

CODE INFORMATION:

BUILDING CODE:	2015 INTERNATIONAL BUILDING CODE
ACCESSIBILITY:	ICC/ANSI A117-2003 AMERICANS WITH DISABILITIES ACT
PLUMBING CODE:	2015 INTERNATIONAL PLUMBING CODE
MECHANICAL CODE:	2015 INTERNATIONAL MECHANICAL CODE
ELECTRICAL CODE:	2014 NATIONAL ELECTRIC CODE
ENERGY CODE:	2015 INTERNATIONAL ENERGY CONSERVATION CODE

SPRINKLER SYSTEM:

THE HOTEL IS EQUIPPED WITH A FULLY AUTOMATIC AND MONITORED NFPA 13 SPRINKLER SYSTEM. THE SPRINKLER SYSTEM IS TO BE DISTRIBUTED HORIZONTALLY AND ZONED BY FLOOR FOR THE HOTEL. A STANDPIPE SYSTEM WILL BE INSTALLED ACCORDANCE WITH NFPA 14 AND SECTION 905.2 OF THE 2015 IBC.
THE FIRE PROTECTION (DETECTORS, ALARM, SPRINKLERS) WILL BE DESIGN / BUILD AND SHALL MEET THE REQUIREMENTS OF THE 2015 IBC, SECTION 907. THE DESIGNER OF THE SPRINKLER SYSTEM IS RESPONSIBLE FOR SUBMITTING AND APPROVAL OF PLANS TO THE LOCAL JURISDICTION.
PROVIDE DRY SPRINKLER HEADS IN THE ROOF PENTHOUSE.

BUILDING INFORMATION:

HOTEL:		
USE AND OCCUPANCY CLASSIFICATION:	R-1 (HOTEL)	
CHAPTER 3:	A-3 (EXERCISE, GUEST LAUNDRY)	
CONSTRUCTION TYPE:	V-A	
CHAPTER 6:		
RATINGS REQUIRED, TABLE 601:	STRUCTURAL FRAME	1 HOUR RATING
	BEARING WALLS, EXTERIOR	1 HOUR RATING
	BEARING WALL, INTERIOR	1 HOUR RATING
	NONBEARING WALLS, EXTERIOR	0 HOUR RATING
	NONBEARING WALLS, INTERIOR	1 HOUR RATING
	FLOOR CONSTRUCTION	1 HOUR RATING
	ROOF CONSTRUCTION	1 HOUR RATING
	FIRE SEPARATION DISTANCE ≥ 30 FEET	0 HOUR RATING
	FIRE ENCLOSURES (STAIRS & ELEVATORS)	2 HOUR RATINGS

GENERAL INFORMATION:

ROOM TYPES AND COUNT SCHEDULE						
ROOM LABEL	ROOM DESCRIPTION	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	FOURTH FLOOR	TOTAL COUNT
A	SINGLE QUEEN STUDIO	5	7	8	8	28
A1	SINGLE QUEEN STUDIO ADJOINING	1	1	-	-	2
A2	SINGLE QUEEN STUDIO	2	2	2	2	8
B	DOUBLE QUEEN STUDIO	1	2	1	1	5
B1	ACCESSIBLE SINGLE QUEEN STUDIO, ROLL-IN SHOWER	1	-	-	-	1
B2	DOUBLE QUEEN STUDIO ADJOINING	-	1	1	1	3
B3	DOUBLE QUEEN STUDIO	-	1	1	1	3
B4	ACCESSIBLE SINGLE QUEEN STUDIO, TUB	-	-	1	1	2
C	SINGLE KING SUITE	3	4	5	5	17
C1	ACCESSIBLE SINGLE KING SUITE ADJ.	1	1	-	-	2
C2	SINGLE KING SUITE ADJOINING	-	1	1	1	3
D	DOUBLE QUEEN STUDIO	-	1	2	2	5
D1	ACCESSIBLE DOUBLE QUEEN STUDIO	-	1	-	-	1
TOTAL GUEST ROOMS		14	22	22	22	80

ROOMS #127, #130, #133, #231, #232, #234, #235, #330, AND #424 ARE HEARING IMPAIRED. PHONES TO CONTAIN VISUAL ALARM & VISUAL NOTIFICATION. SEE ELECTRICAL.
BUILDING AREA:
FIRST FLOOR: 12,433 SQ. FT.
SECOND FLOOR: 12,208 SQ. FT.
THIRD FLOOR: 12,208 SQ. FT.
FOURTH FLOOR: 12,208 SQ. FT.
TOTAL: 51,057 SQ. FT.
NO. OF STORY : 4
BUILDING HEIGHT : 56'-0"

CODE REVIEW:

DETERMINE ALLOWABLE BUILDING AREA: TABLE 503
TYPE V-A CONSTRUCTION, GROUP R-1 = 4 STORY, 70 FT. HIGH, 12,000 SQ.FT.
DETERMINE ALLOWABLE AREA MODIFICATIONS: SECTION 506
FRONTAGE INCREASE: SECTION 506.2
 $I_f = [F / P - 0.25] W / 30$
 I_f = AREA INCREASE DUE TO FRONTAGE
 F = BUILDING PERIMETER THAT FRONTS AN OPEN SPACE WITH A MINIMUM WIDTH OF 20 FEET
 P = PERIMETER OF ENTIRE BUILDING
 W = MINIMUM WIDTH OF OPEN SPACE FOR FRONTAGE EXPOSURE ON ANY SIDE
WEIGHTED AVERAGE CALCULATION:
 $W = (30' \times 230') + (30' \times 64') + (30' \times 230') + (30' \times 64') / 651 = 28'$
 $651 / 651 - .25 \times 28 / 30 = .64$
12,000 (ALLOWED) X .64 = 8,280 SQ.FT. (FRONTAGE INCREASE)
FRONTAGE IS ONLY PERMITTED ON OPEN SPACE THAT IS A PUBLIC WAY OR SPACE THAT IS A MINIMUM OF 20 FEET WIDE WHICH IS ACCESSED FROM A STREET OR FIRE LANE.
SPRINKLER INCREASE: SECTION 506.3
 $I_s = 200\%$ FOR MULTI-STORY BUILDINGS
200% X 12,000 SQ. FT. = 24,000 SQ. FT.
12,000 + [12,000 X .64] + [12,000 X 200%] = 44,640 SQ. FT.
ALLOWABLE AREA PER FLOOR = 44,280 SQ.FT.

THE GAZEBO IS CONSTRUCTED AS A SEPARATE BUILDING PER CODE AND IS TYPE VB CONSTRUCTION.

ESTABLISH OCCUPANT LOAD: TABLE 1004.1 (HOTEL)

ROOM NAME	FUNCTION OF SPACE	FLOOR AREA ACTUAL (SQ.FT.)	FLOOR AREA PER OCCUPANT (SQ.FT.)	OCCUPANT LOAD CALCULATION
FIRST FLOOR:				
GUEST RENTAL UNITS	RESIDENTIAL	6,150	200 GROSS	31
LOBBY	ASSEMBLY	793	15 NET	53
REGISTRATION	BUSINESS	254	100 GROSS	3
WORK ROOM	BUSINESS	26	100 GROSS	1
CLOSET	ACCESSORY	32	100 GROSS	1
BREAK ROOM	ACCESSORY	120	15 NET	8
LAUNDRY	ACCESSORY	287	100 GROSS	3
DRYERS	ACCESSORY	52	100 GROSS	1
EXERCISE	EXERCISE	491	90 GROSS	9
GUEST LAUNDRY	ACCESSORY	201	300 GROSS	1
HANAGER	BUSINESS	77	100 GROSS	1
SALES	BUSINESS	86	100 GROSS	2
CUPBOARD	ACCESSORY	196	100 GROSS	2
CUPBOARD STORAGE	ACCESSORY	47	100 GROSS	1
MENS RESTROOM	ACCESSORY	56	100 GROSS	1
WOMENS RESTROOM	ACCESSORY	56	100 GROSS	1
BUSINESS CENTER	BUSINESS	84	100 GROSS	1
ELECTRICAL/MECH.	ACCESSORY	280	300 GROSS	2
STORAGE	ACCESSORY	211	300 GROSS	1
STORAGE	ACCESSORY	117	300 GROSS	1
STORAGE	ACCESSORY	211	300 GROSS	1
GAZEBO	ACCESSORY	216	15 NET	15
SECOND FLOOR:				
GUEST RENTAL UNITS	RESIDENTIAL	9,805	200 GROSS	49
STORAGE	RESIDENTIAL	211	300 GROSS	1
PBX	RESIDENTIAL	117	300 GROSS	1
STORAGE	RESIDENTIAL	211	300 GROSS	1
THIRD FLOOR:				
GUEST RENTAL UNITS	RESIDENTIAL	9,805	200 GROSS	49
STORAGE	RESIDENTIAL	211	300 GROSS	1
STORAGE	RESIDENTIAL	117	300 GROSS	1
STORAGE	RESIDENTIAL	211	300 GROSS	1
FOURTH FLOOR:				
GUEST RENTAL UNITS	RESIDENTIAL	9,805	200 GROSS	49
STORAGE	RESIDENTIAL	211	300 GROSS	1

ESTABLISH EGRESS WIDTH PER OCCUPANT SERVED: TABLE 1005. (WITH SPRINKLER SYSTEM)
INCHES PER PERSON WITH SPRINKLER: STAIRWAYS = 2"
OTHER COMPONENTS = 15" PER PERSON

FIRST FLOOR:	OCCUPANT LOAD FACTOR	SECOND FLOOR:	OCCUPANT LOAD FACTOR
216	15 x 216 = 41.1 IN. EXIT DOOR WIDTH	52	2 x 52 = 10.4 IN. EXIT STAIR WIDTH
THIRD FLOOR:	OCCUPANT LOAD FACTOR	FOURTH FLOOR:	OCCUPANT LOAD FACTOR
52	2 x 52 = 10.4 IN. EXIT STAIR WIDTH	52	2 x 52 = 10.4 IN. EXIT STAIR WIDTH

CHECK TRAVEL DISTANCES: TABLE 1016.J
TRAVEL DISTANCE: IN BUILDINGS WITH A SPRINKLER, TRAVEL DISTANCE SHALL NOT EXCEED 250'

CONFIRM DRAFT STOPS IN FLOOR / CEILING SPACES: CHAPTER 7
DRAFT STOPS ARE NOT REQUIRED IN FLOOR-CEILING SPACES IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM. SEE SECTION 909.3.1.1
DRAFT STOPS ARE NOT REQUIRED IN INTERSTITIAL SPACES WHERE SUCH SPACES ARE DESIGNED AND CONSTRUCTED WITH CEILING THAT PROVIDES RESISTANCE TO THE PASSAGE OF FIRE AND SMOKE EQUIVALENT TO THAT PROVIDED BY THE SMOKE BARRIER. SEE SECTION 104.4

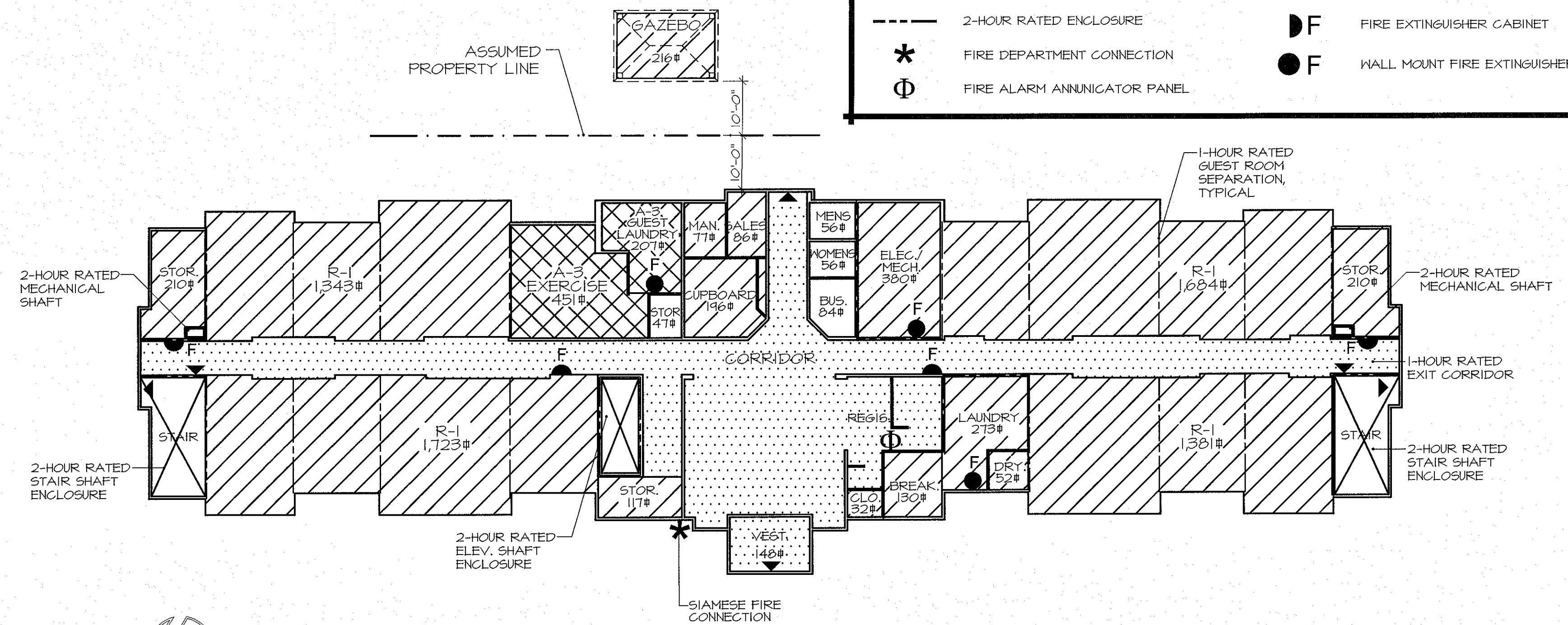
CHECK ACCESSIBILITY REQUIREMENTS:
80 ROOMS - 4 ACCESSIBLE ROOMS AND 1 ACCESSIBLE ROOM WITH ROLL-IN SHOWER REQUIRED.
4 HEARING IMPAIRED ROOMS REQUIRED.

DETERMINE REQUIRED OCCUPANCY SEPARATION: TABLE 508.3.3
SEC. 302.3.2 NONSEPARATED USES
THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING. THE OTHER REQUIREMENTS SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE USE OF THAT SPACE. FIRE SEPARATIONS ARE NOT REQUIRED BETWEEN USES, EXCEPT AS REQUIRED BY OTHER PROVISIONS.

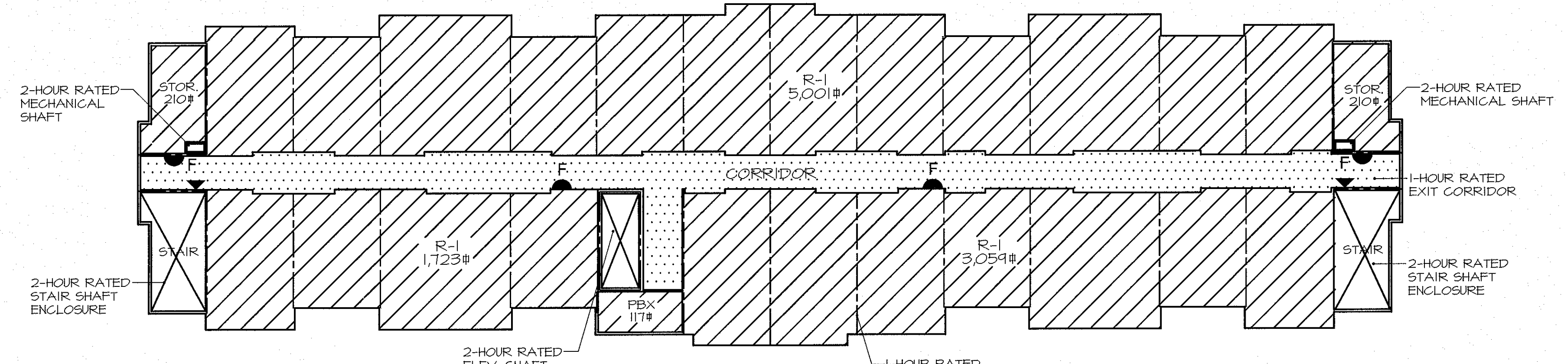
TABLE 302.1.1 INCIDENTAL USE AREAS
STORAGE ROOMS AND LAUNDRY ROOMS OVER 100 SF = 1-HOUR SEPARATION

LEGEND:

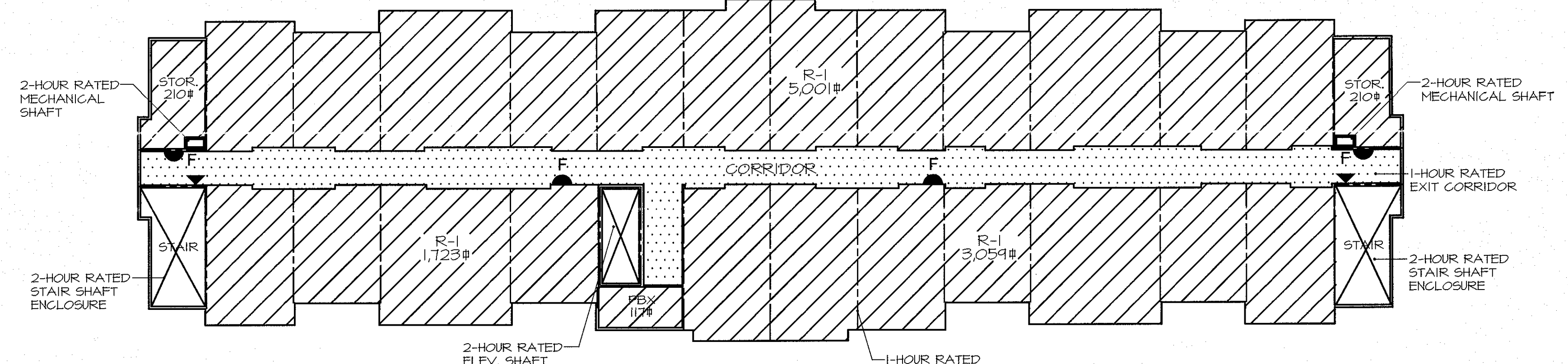
- 1-HOUR RATED EXIT CORRIDOR
- 1-HOUR RATED SEPARATION
- 2-HOUR RATED ENCLOSURE
- FIRE DEPARTMENT CONNECTION
- FIRE ALARM ANNUNCIATOR PANEL
- EMERGENCY EXIT
- ELEVATOR
- FIRE EXTINGUISHER CABINET
- HALL MOUNT FIRE EXTINGUISHER



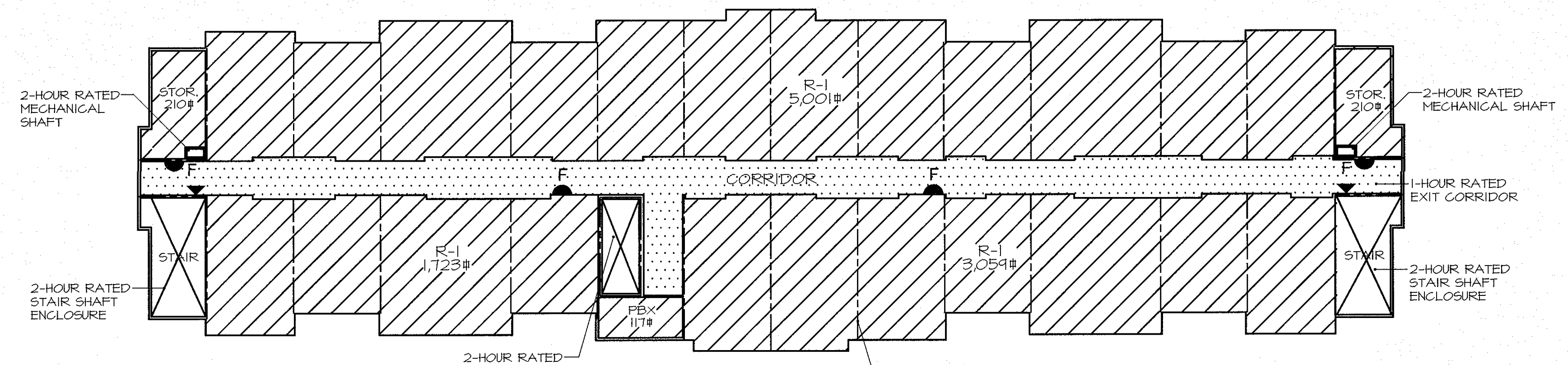
FIRST FLOOR CODE PLAN
SCALE: 1/8" = 1'-0"



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



THIRD FLOOR CODE PLAN
SCALE: 1/8" = 1'-0"

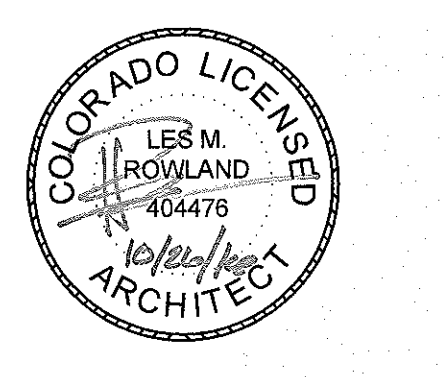


FOURTH FLOOR CODE PLAN
SCALE: 1/8" = 1'-0"

CANDLEWOOD SUITES
Pueblo, CO
PROJ. MGR.
PRO GROUP INC.
YOUR IDEAS DEVELOPED BY EXPERTS

208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

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ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

PROJECT NAME:
Code Review and Code Plans

PROJECT NO.
W16006
DRAWN BY:
CDS
CHECKED BY:
WLP
DATE:
10.26.2016
SHEET:

T1.1

CANDLEWOOD SUITES PUEBLO, COLORADO



VICINITY MAP
NOT TO SCALE

SITE/CIVIL NOTES:

- Locations and depths of any utilities that may exist on the site are not shown or are shown in an approximate way only and may not include all utilities. Contractor shall contact the respective utility companies prior to commencement of work and shall determine the exact location of any and all utilities before commencing work. Location methods shall include potholing. Any deviation from plan documentation shall be discussed with the Engineer promptly.
- Contractor shall notify the inspector having jurisdiction over a particular item of work a minimum of 48 hours before beginning such work.
- Prior to commencement of any construction activities, Contractor shall fence or rope property lines and place sanitary facilities, trash dumpsters, and erosion control structures on-site. Property line barriers, sanitary facilities, structures, and dumpsters shall be properly maintained throughout the course of construction and shall be left in place until all construction activities are completed.
- The Contractor shall assume sole and complete responsibility for job site conditions during the course of construction, including safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours.
- The Contractor shall be responsible for daily cleanup and removal of all dirt, rock, debris or similar materials tracked, spilled or otherwise deposited on all public right-of-ways adjoining the construction site from vehicles or equipment associated with site construction.
- The construction shall be in accordance with the latest adopted version of the International Building Code (IBC) and any other codes of applicable regulatory agencies. All work in public right-of-way shall meet the standard specifications, detail, and requirements of the City of Pueblo Department of Public Works.
- All excavation four feet or more in depth shall be done in conformance with appropriate shoring system standards.
- The Contractor shall field verify all existing conditions for conformance with the drawings before start of construction. Any discrepancies shall be brought to the attention of the Engineer for resolution before the start of construction.
- The Contractor shall be responsible for preventing and repairing any erosion that may occur as a result of construction and shall be responsible for all dust control during construction. Refer to Grading, Drainage and Erosion Control plans and notes for additional details. Contractor shall apply for and meet all requirements of the NDPES permit.
- Contractor shall protect any excavation from entry of surface runoff from any source. Divert surface water or otherwise prevent it from entering excavated areas or trenches to the extent practical without damaging adjacent property.
- Keep each excavation dry during subgrade preparation and continually thereafter until the structure to be built or the pipe to be installed is completed to the extent that no damage from hydrostatic pressure, flotation or other cause will result.
- Owner to remove all obstructions interfering with the installation of new construction.
- Paving shall be guaranteed for one year after final completion of construction. Guarantee shall be against settlement, low spots or ravelling out of surface and shall include repairs necessary during guarantee period to maintain paving in perfect condition. Repairs shall include but shall not be limited to removing defective paving and replacing with new pavement.
- For lighting and site electrical, refer to site utility plans and electrical plans. All electrical and lighting improvements are by others.
- Spot elevations shown on curb and gutter are flowline elevations. All other spot elevations on the plan are finished grade unless otherwise noted and shall override contours on construction plans.
- Regular parking spaces shall be 9'x18' except as noted otherwise. Handicap parking spaces are 9'x18' with additional loading area unless otherwise noted. Provide "HANDICAP PARKING ONLY" signs at all handicap parking stalls. All signs shall meet ADA Standards.
- Construction joints in concrete shall be cut to a depth of 1/4 of total section thickness. Construction joints shall be placed as follows:
 - Sidewalks - interval to match sidewalk width
 - Concrete Pans - 10' intervals
 - Curb and Gutter - 10' intervals
- Expansion joints shall be 1/2 inch non-extruding premolded type. Expansion joints shall be placed as indicated on the plan or as required. Expansion joints in public sidewalks shall not exceed 100 ft intervals in City of Pueblo right-of-way. Expansion joints in site curb and gutter shall not exceed 200' intervals. In curb and gutter, install at least two #6 smooth rebar dowels, 12" long with approved metal expansion caps, to inhibit vertical displacement at the joint.
- All on-site curb shall be City of Pueblo Type 2 curb.
- Match existing concrete and asphalt with a smooth and clean transition.
- Contractor shall coordinate location of sleeves across paved areas for installation of irrigation system, telephone, catv, electric and gas lines prior to paving operations.

SHEET INDEX

- C1.0 TITLE SHEET
- C2.0 SITE PLAN
- C3.0 UTILITY PLAN
- C4.0 GRADING PLAN
- C5.0 DETAIL SHEET

CITY OF PUEBLO STANDARD SPECIFICATIONS

- ARTICLE 4 - CONCRETE
- ARTICLE 5 - CONCRETE CURB & GUTTER
- ARTICLE 6 - CONCRETE SIDEWALK AND DRIVEWAYS
- ARTICLE 7 - CONCRETE PAVEMENT
- ARTICLE 8 - AGGREGATE BASE CONSTRUCTION
- ARTICLE 9 - EARTHWORK
- ARTICLE 10 - HOT BITUMINOUS PAVEMENT
- ARTICLE 11 - PLANT MIXED SEAL COAT (ASPHALTIC OVERLAY)
- ARTICLE 12 - SANITARY SEWERS
- ARTICLE 13 - STORM SEWERS
- ARTICLE 14 - EXCAVATION WITHIN PUBLIC RIGHT OF WAY

PAVEMENT SECTION

LOCATION	CITY OF PUEBLO DEFAULT COMPOSITE SECTION	
	LIGHT DUTY	HEAVY DUTY
PARKING LOT	4" ASPHALT ON 4" BASE COURSE	4" ASPHALT ON 8" BASE COURSE

NOTES:
THIS IS TO CONFIRM THAT WE HAVE PREPARED THE SITE IMPROVEMENTS TO THE BEST OF OUR KNOWLEDGE AND BELIEF TO BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT. THE ACCESSIBLE ROUTE FROM THE PARKING LOT TO THE BUILDING AND FROM THE SITE TO THE PUBLIC WAY IS COMPLIANT WITH THE ADA. WE HAVE DESIGNED THE PLAN AND IT WAS DRAWN BY ME OR UNDER MY SUPERVISION.

THIS CONSTRUCTION PLAN COMPLIES WITH ALL CITY OF PUEBLO DESIGN STANDARDS WITH THE MOST CURRENT STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.

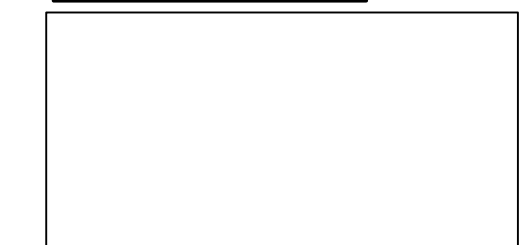
BENCHMARK

CHISELED "△" IN SOUTHWEST CORNER OF AN INLET
POINT #10000
ELEVATION=4819.62

CAUTION - NOTICE TO CONTRACTOR

LOCATIONS AND DEPTHS OF EXISTING UTILITIES ARE NOT SHOWN. THE EXCAVATING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

APPROVAL STAMP



IMPERVIOUS AREA

TOTAL SITE AREA:	107,774 SF (2.47 ac)
ADDITIONAL IMPERVIOUS AREA	
ROOF AREA (90% IMPERVIOUS):	12,933 SF (0.30 ac)
PARKING LOT AREA (100% IMPERVIOUS):	43,387 SF (1.00 ac)
SIDEWALKS (96% IMPERVIOUS):	4,620 SF (0.11 ac)
LANDSCAPE AREA (2% IMPERVIOUS):	46,834 SF (1.08 ac)
PERCENT IMPERVIOUS:	56.0% (60,353 SF)

PARKING CALCUCATIONS

PARKING REQUIRED:	
80 UNITS x 1 SPACE PER UNIT:	80
2 ADDITIONAL SPACES FOR OWNER/MANAGER:	2
ADA PARKING REQUIRED:	4
PARKING PROVIDED:	
TOTAL REGULAR PARKING SPACES (9'-0" x 18'-0"):	84
HANDICAPPED PARKING SPACES:	4
BICYCLE PARKING:	3

MARK	DATE	REVISION	REVISED BY
△			
△			
△			
△			
△			
△			

**4640 DILLON DRIVE
CANDLEWOOD SUITES
PUEBLO, CO**

TITLE SHEET

PROJECT NAME	SHEET TITLE
4640 DILLON DRIVE CANDLEWOOD SUITES PUEBLO, CO	TITLE SHEET

**NORTH STAR
ENGINEERING AND SURVEYING**

111 E. BYRNE, PUEBLO, CO 81008
TELEPHONE: (719) 544-8888
FAX: (719) 544-8888

PREPARED UNDER THE DIRECT SUPERVISION OF MICHAEL LELAND CURPPY, P.E., COLORADO REGISTRATION NO. 40201.

SCALE:	N/A
DATE:	10-21-16
DESIGN BY:	MLC
DRAWN BY:	MLC
CHECKED BY:	KKK
FILE:	C1.0-TTL_JCS.DWG
JOB NO.	0606902
C1.0	
SHEET 1 OF 5	

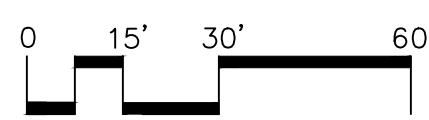
BLOCK 1

NORTH PUEBLO COMMERCIAL PARK, FILING NO. 1 (RECEPTION NO. 1027152)

BLOCK 2

TO LOAF & JUG

SCALE: 1" = 30'



R=415.00' D=18°39'03" L=135.09'

CURVE DATA TABLE

Table with 6 columns: CURVE, LENGTH, RADIUS, CURVE, LENGTH, RADIUS. Lists curve data for C01 through C22.

LINE DATA TABLE

Table with 6 columns: LINE, LENGTH, BEARING, LINE, LENGTH, BEARING. Lists line data for L01 through L37.

NORTH PUEBLO COMMERCIAL PARK, FILING NO. 2 (RECEPTION NO. 1041446) BOOK 2726, PAGE 630 AND 631

LEGEND

- Legend items: SET No. 4 REBAR w/ PLASTIC CAP L.S. 38485, FOUND No. 4 REBAR WITH PLASTIC CAP - L.S. 12933, FOUND MONUMENT, P.U.E. PUBLIC UTILITY EASEMENT, EXISTING SIGN

NOTES

THIS IS TO CONFIRM THAT WE HAVE PREPARED THE SITE IMPROVEMENTS TO THE BEST OF OUR KNOWLEDGE AND BELIEF TO BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT...

CAUTION - NOTICE TO CONTRACTOR

LOCATIONS AND DEPTHS OF EXISTING UTILITIES ARE NOT SHOWN. THE EXCAVATING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK...

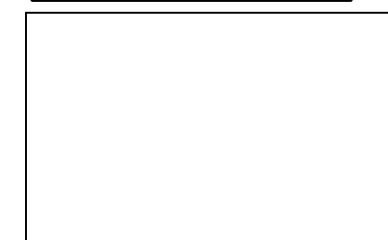
CONSTRUCTION NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS PRIOR TO COMMENCEMENT OF ANY WORK ON THE PROJECT.
2. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY THE OWNER AND ARCHITECT OF ANY PROBLEMS IN CONFORMING TO THE APPROVED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS' CONSTRUCTION.
...
18. SEAL CONCRETE EXPANSION JOINTS WITH CONTINUOUS FLEXIBLE COMPOUND.

SITE CONSTRUCTION NOTES

- 1. CONSTRUCT ADA ACCESSIBLE COMPLIANT CONCRETE SIDEWALK. ALL NEW CONCRETE FLATWORK SHALL BE 4" THICK (UNLESS OTHERWISE NOTED), WITH ONE (1) LAYER 6 X 6 W/4"W/4 WELDED WIRE MESH AND WITH CONTROL JOINTS AT 5.0' O.C. OVER UNIFORMLY GRADED AND COMPACTED OF UNDISTURBED AND COMPACTED SOIL BASE.
2. HEAVY DUTY TRAFFIC PAVING - CONSTRUCT 4" HBP (ASPHALTIC HOT BITUMINOUS PAVEMENT) OVER 8" COMPACTED ABC CLASS C AGGREGATE (ROAD BASE) PER CONSTRUCTION NOTES, SPECIFICATIONS, AND RECOMMENDATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT.
...
22. NOT USED

APPROVAL STAMP

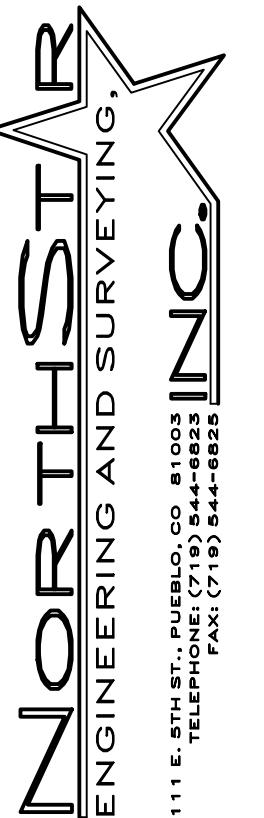


4640 DILLON DRIVE CANDLEWOOD SUITES PUEBLO, CO

SITE PLAN

PROJECT NAME

SHEET TITLE



PREPARED UNDER THE DIRECT SUPERVISION OF KIM KLAYTON KOOK, P.E., COLORADO REGISTRATION NO. 19799.

SCALE: AS SHOWN

DATE: 10-21-16

DESIGN BY: MLC

DRAWN BY: MLC

CHECKED BY: KKK

FILE: SITE_PLAN_BASE_CS.DWG

JOB NO. 0606902

C2.0

SHEET 2 OF 5

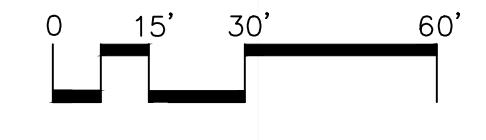
THIS CONSTRUCTION PLAN COMPLIES WITH ALL CITY OF PUEBLO DESIGN STANDARDS WITH THE MOST CURRENT STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.

BLOCK 1

NORTH PUEBLO COMMERCIAL PARK, FILING NO. 1 (RECEPTION NO. 1027152)

BLOCK 2

SCALE: 1" = 30'

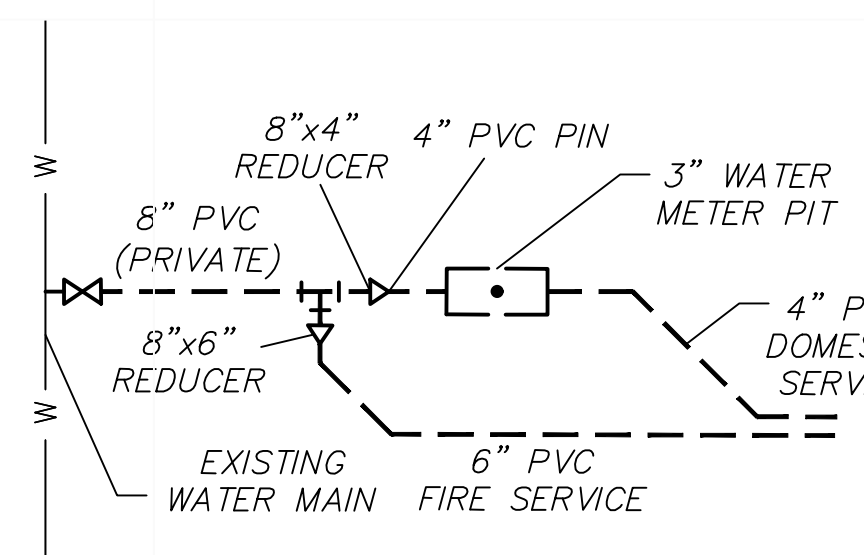


LEGEND

- SET No. 4 REBAR w/ PLASTIC CAP L.S. 38485
- FOUND No. 4 REBAR WITH PLASTIC CAP - L.S. 12933
- ▲ FOUND MONUMENT
- P.U.E. PUBLIC UTILITY EASEMENT
- EXISTING SIGN
- ☆ EXISTING STREET LIGHT
- ⊠ EXISTING ELECTRIC BOX
- ⊡ EXISTING ELECTRIC METER
- ⊕ FIRE HYDRANT
- ⊗ IRRIGATION CONTROL VALVE
- ⊘ WATER VALVE
- EXISTING TELEPHONE BOX
- EXISTING ELECTRIC LINE
- EXISTING WATER LINE
- EXISTING SANITARY SEWER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING STORM SEWER
- - - PROPOSED STORM SEWER
- - - PROPOSED ELECTRIC LINE
- - - PROPOSED WATER LINE
- - - PROPOSED SANITARY SEWER LINE
- - - EXISTING UNDERGROUND TELEPHONE LINE

NORTH PUEBLO COMMERCIAL PARK, FILING NO. 2 (RECEPTION NO. 1041446 BOOK 2726, PAGE 630 AND 631)

WATER DETAIL A NOT TO SCALE



TO SAM'S CLUB

BILLION DRIVE

NOTES:
THIS IS TO CONFIRM THAT WE HAVE PREPARED THE SITE IMPROVEMENTS TO THE BEST OF OUR KNOWLEDGE AND BELIEF TO BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT. THE ACCESSIBLE ROUTE FROM THE PARKING LOT TO THE BUILDING AND FROM THE SITE TO THE PUBLIC WAY IS COMPLIANT WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. WE HAVE DESIGNED THE PLAN AND IT WAS DRAWN BY ME OR UNDER MY SUPERVISION.

CAUTION - NOTICE TO CONTRACTOR
LOCATIONS AND DEPTHS OF EXISTING UTILITIES ARE NOT SHOWN. THE EXCAVATING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CONSTRUCTION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS PRIOR TO COMMENCEMENT OF ANY WORK ON THE PROJECT.
2. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY THE OWNER AND ARCHITECT OF ANY PROBLEMS IN CONFORMING TO THE APPROVED PLANS FOR ANY ELEMENT OF THE PROPOSED IMPROVEMENTS PRIOR TO ITS' CONSTRUCTION.
3. ANY SETTLEMENT OR SOIL ACCUMULATION, BEYOND THE PROPERTY LIMITS, DUE TO GRADING OR EROSION, SHALL BE RETURNED TO EXISTING CONDITIONS BY THE CONTRACTOR IMMEDIATELY.
4. ANY CONSTRUCTION DEBRIS OR MUD TRACKING ONTO THE PUBLIC RIGHT-OF-WAY, RESULTING FROM THE PROJECT, SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY RETURN TO EXISTING CONDITIONS ANY EXCAVATION OR EXCESSIVE PAVEMENT FAILURE CAUSED BY PROJECT, AND SHALL PROPERLY BARRICADE THE SITE UNTIL CONSTRUCTION IS COMPLETE.
5. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT, AND ADJACENT TO, THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE OWNER, ARCHITECT OR ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS PRIOR TO ADJUSTING ALL CLEANOUTS, MANHOLES, VALVE BOXES, SURVEY MONUMENTS, AND ANY OTHER FIXTURES TO FINISHED GRADE PRIOR TO FINAL PAVING.
8. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, OR OTHER DEVICES TO PROVIDE FOR PUBLIC SAFETY, IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
9. ALL UTILITIES SHALL BE INSTALLED PER THE PROJECT SPECIFICATIONS AND APPROVED PLANS. COPIES OF THE APPROVED PLANS, SPECIFICATIONS, ADDENDUMS, AND OTHER PERTINENT INFORMATION WILL BE KEPT ON THE JOB SITE AT ALL TIMES AND WILL BE AVAILABLE FOR USE BY THE OWNER, ARCHITECT OR ENGINEER AT THE TIME OF SITE VISIT/INSPECTIONS.
10. CONTRACTOR SHALL COORDINATE LOCATION AND CONNECTION OF PROPOSED UTILITIES AT BUILDING WITH ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL PLANS.
11. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF ANY DEMOLITION OR NEW WORK.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR HAULING AWAY AND DISPOSAL OF ALL DEMO MATERIALS - SALVAGE TO CONTRACTOR UNLESS OTHERWISE NOTED.
13. ALL NEW SITE CONCRETE FLATWORK SHALL BE 4" THICK CONCRETE, (UNLESS OTHERWISE NOTED), WITH ONE (1) LAYER 6 X 6 W/4 W/4 WELDED WIRE MESH AND WITH CONTROL JOINTS AT 5.0' O.C. OVER UNIFORMLY GRADED AND COMPACTED OF UNDISTURBED AND COMPACTED SOIL BASE.
14. ALL CONCRETE IN PUBLIC RIGHT-OF-WAY SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF PUEBLO STANDARD CONSTRUCTION SPECIFICATIONS.
15. NEW CONCRETE STOODS AT ALL NEW ENTRIES SHALL BE 4" THICK CONCRETE (UNLESS OTHERWISE NOTED) WITH ONE (1) LAYER 6 X 6 W/4 W/4 WELDED WIRE MESH AND WITH CONTROL JOINTS AT 5.0' O.C. OVER UNIFORMLY GRADED AND COMPACTED OF UNDISTURBED AND COMPACTED SOIL BASE.
16. SEAL ALL JOINTS BETWEEN CONCRETE FLATWORK AND ASPHALT PAVING WITH CONTINUOUS FLEXIBLE COMPOUND.
17. SEAL ALL JOINTS BETWEEN NEW AND EXISTING CONCRETE FLATWORK WITH CONTINUOUS FLEXIBLE COMPOUND.
18. SEAL CONCRETE EXPANSION JOINTS WITH CONTINUOUS FLEXIBLE COMPOUND.

SITE CONSTRUCTION NOTES

1. CONSTRUCT ADA ACCESSIBLE COMPLIANT CONCRETE SIDEWALK. ALL NEW CONCRETE FLATWORK SHALL BE 4" THICK (UNLESS OTHERWISE NOTED), WITH ONE (1) LAYER 6 X 6 W/4 W/4 WELDED WIRE MESH AND WITH CONTROL JOINTS AT 5.0' O.C. OVER UNIFORMLY GRADED AND COMPACTED OF UNDISTURBED AND COMPACTED SOIL BASE. REFER TO GEOTECHNICAL REPORT. MINIMUM WIDTH OF 5'-0" UNLESS NOTED OTHERWISE. ALL CONCRETE SIDEWALKS IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF PUEBLO STANDARD CONSTRUCTION SPECIFICATIONS WITH MINIMUM WIDTH OF 6'-0" WITHOUT WELDED WIRE MESH.
2. HEAVY DUTY TRAFFIC PAVING- CONSTRUCT 4" HBP (ASPHALTIC HOT BITUMINOUS PAVEMENT) OVER 8" COMPACTED ABC CLASS C AGGREGATE (ROAD BASE) PER CONSTRUCTION NOTES, SPECIFICATIONS, AND RECOMMENDATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT.
3. LIGHT DUTY TRAFFIC PAVING- CONSTRUCT 4" HBP (ASPHALTIC HOT BITUMINOUS PAVEMENT) OVER 4" COMPACTED ABC CLASS C AGGREGATE (ROAD BASE) PER CONSTRUCTION NOTES, SPECIFICATIONS, AND RECOMMENDATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT.
4. PAINT 4" WIDE STRIPING (WHITE)
5. CONSTRUCT ADA COMPLIANT HANDICAP PARKING SPACES & SIGNAGE PER DETAILS ON SHEET C5.0. PAINT CURBHEAD FOR ADA SPACES BLUE. MAXIMUM 2.00% SLOPE IN ANY DIRECTION FOR ADA PARKING STALLS.
6. LANDSCAPE AREA, REFER TO LANDSCAPE AND IRRIGATION PLANS
7. 7" THICK REINFORCED CONCRETE PAN, SEE SHEET C5.0 FOR DETAILS.
8. INSTALL SURFACE MOUNTED SIX SPACE INVERTED U BIKE RACK; SITESCAPES-MODEL # AP2-06-SM OR APPROVED EQUAL. SEE SHEET C5.0 FOR DETAILS.
9. NOT USED
10. DOMESTIC WATER SERVICE WITH MATCHING METER PER PUEBLO BOARD OF WATER WORKS STANDARDS WITH PARALLEL FIRE LINE TO FIRE HYDRANT AND BUILDING WITH ISOLATION VALVES AS SHOWN, INSTALLED 48" MIN. BELOW FINISH GRADE. SEE NOTES ON SHEET C3.0.
11. NOT USED
12. CONSTRUCT 6" THICK COLORED STAMPED CONCRETE WALKWAY WITH #4 REBAR @ 16" ON-CENTER EACH WAY PLACED AT MID-DEPTH.
13. TRASH DUMPSTER WITH 8" THICK CONCRETE PAD WITH #4 REBAR @ 16" ON-CENTER EACH WAY PLACE AT MID-DEPTH, REFER TO ARCHITECTURAL PLANS FOR DETAILS
14. 7" THICK REINFORCED CONCRETE CROSS PAN PER CITY OF PUEBLO STANDARD SPECIFICATIONS.
15. NOT USED
16. NOT USED
17. INSTALL CONCRETE WHEEL STOPS AT ALL ADA HANDICAP PARKING STALLS, REFER TO DETAILS ON SHEET C5.0. PAINT WHEEL STOPS/CURBHEAD AT ADA PARKING STALLS BLUE.
18. INSTALL "TYPE 2" CURB AND GUTTER PER CITY OF PUEBLO STANDARD DETAILS AND SPECIFICATIONS. INSTALL SPILL GUTTER PAN WHERE ADJACENT PAVING SLOPE AWAY FROM CURB AND GUTTER AND INSTALL CATCH GUTTER PAN WHERE ADJACENT PAVING SLOPE TOWARDS CURB AND GUTTER. REFER TO DETAIL ON SHEET C5.0.
19. INSTALL 6" STANDARD CURB AND GUTTER PER CITY OF PUEBLO STANDARD DETAILS AND SPECIFICATIONS.
20. INSTALL 1 FOOT WIDE BY 1/2 FOOT DEEP CONCRETE SIDEWALK CULVERT
21. PROPOSED SITE SIGN LOCATION, REFER TO ARCHITECTURAL PLANS.
22. NOT USED
23. NOT USED
24. NOT USED

APPROVAL STAMP

CHECKED BY: KK
FILE: UTILITY_PLAN_JCS.DWG

MARK	DATE	REVISION
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Δ		
Δ		
Δ		

4640 DILLON DRIVE
CANDLEWOOD SUITES
PUEBLO, CO
UTILITY PLAN

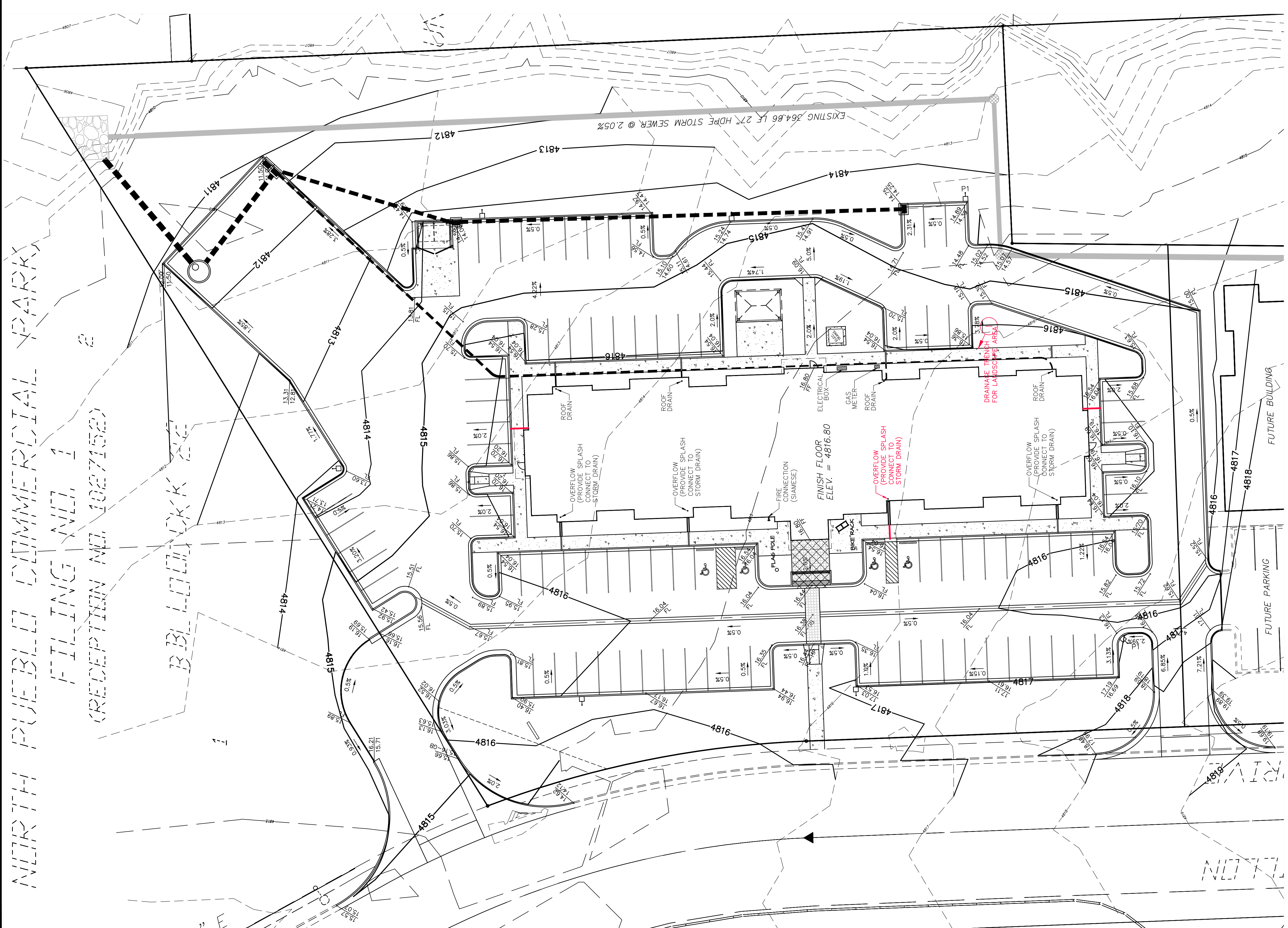
PROJECT NAME: NORTH PUEBLO COMMERCIAL PARK, FILING NO. 2
SHEET TITLE: UTILITY PLAN

NORTHSTAR
ENGINEERING AND SURVEYING, INC.
111 E. 9TH ST. PUEBLO, CO 81003
TEL: 719.244.8828 FAX: 719.244.8829

PREPARED UNDER THE DIRECT SUPERVISION OF KIM KLAYTON KOCK, P.E., COLORADO REGISTRATION NO. 19789.

SCALE: AS SHOWN
DATE: 10-21-16
DESIGN BY: MLC
DRAWN BY: JCS
CHECKED BY: KK
JOB NO. 0606902
C3.0
SHEET 3 OF 5

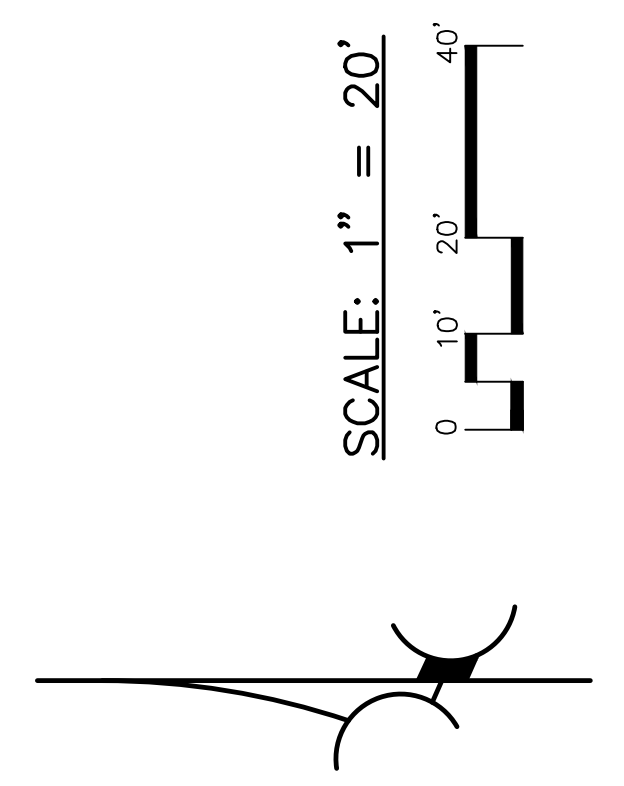
THIS CONSTRUCTION PLAN COMPLIES WITH ALL CITY OF PUEBLO DESIGN STANDARDS WITH THE MOST CURRENT STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.



NOTES:
 THIS IS TO CONFIRM THAT WE HAVE PREPARED THE SITE GRADING PLAN IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT. THE ACCESSIBLE ROUTE FROM THE PARKING LOT TO THE BUILDING ENTRANCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION. WE HAVE DESIGNED THE PLAN AND IT WAS DRAWN BY ME OR UNDER MY SUPERVISION.

CAUTION - NOTICE TO CONTRACTOR:
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- LEGEND**
- PROPERTY BOUNDARY
 - - - 4800 EXISTING 5' CONTOUR
 - - - EXISTING 1' CONTOUR
 - EXISTING STORM SEWER
 - - - PROPOSED STORM SEWER
 - - - 4800 PROPOSED 5' CONTOUR
 - - - PROPOSED 1' CONTOUR
 - SPOT ELEVATION
 - ▲ FINISH GRADE SLOPE

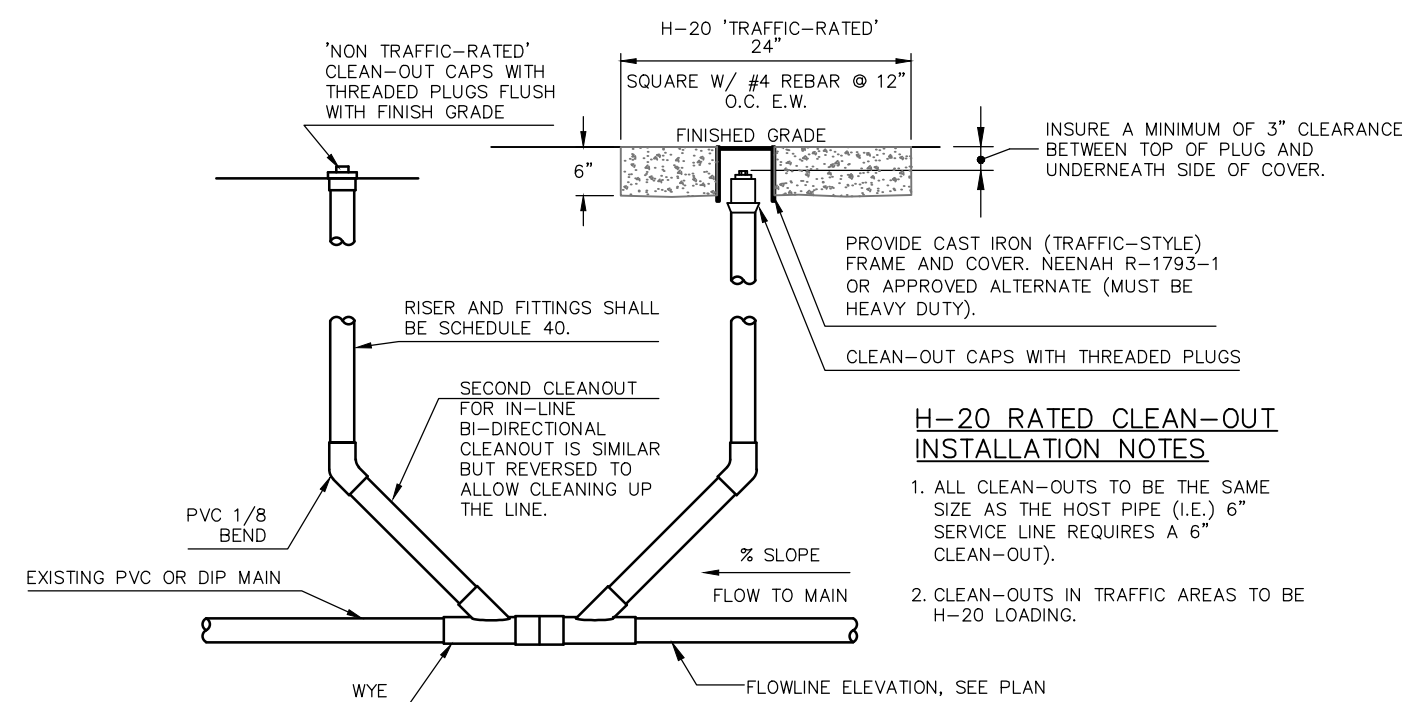


NORTH PUEBLO COMMERCIAL PARK
 RECEPTION NO. 1027152
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 1

THIS CONSTRUCTION PLAN COMPLES WITH ALL CITY OF PUEBLO DESIGN STANDARDS WITH THE MOST CURRENT STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.		REVISION	DATE	MARK
PROJECT NAME 4640 DILLON DRIVE CANDLEWOOD SUITES PUEBLO, CO				
SHEET TITLE GRADING PLAN				
PREPARED UNDER THE DIRECT SUPERVISION OF KIM KLAYTON KOCK, P.E., COLORADO REGISTRATION NO. 19799.				
SCALE:	AS SHOWN			
DATE:	10-21-16			
DESIGN BY:	MLC			
DRAWN BY:	JCS			
CHECKED BY:	KKK			
FILE:	GRADING_PLAN_JCS.DWG			
JOB NO.	0606902			
C4.0 SHEET 4 OF 5				

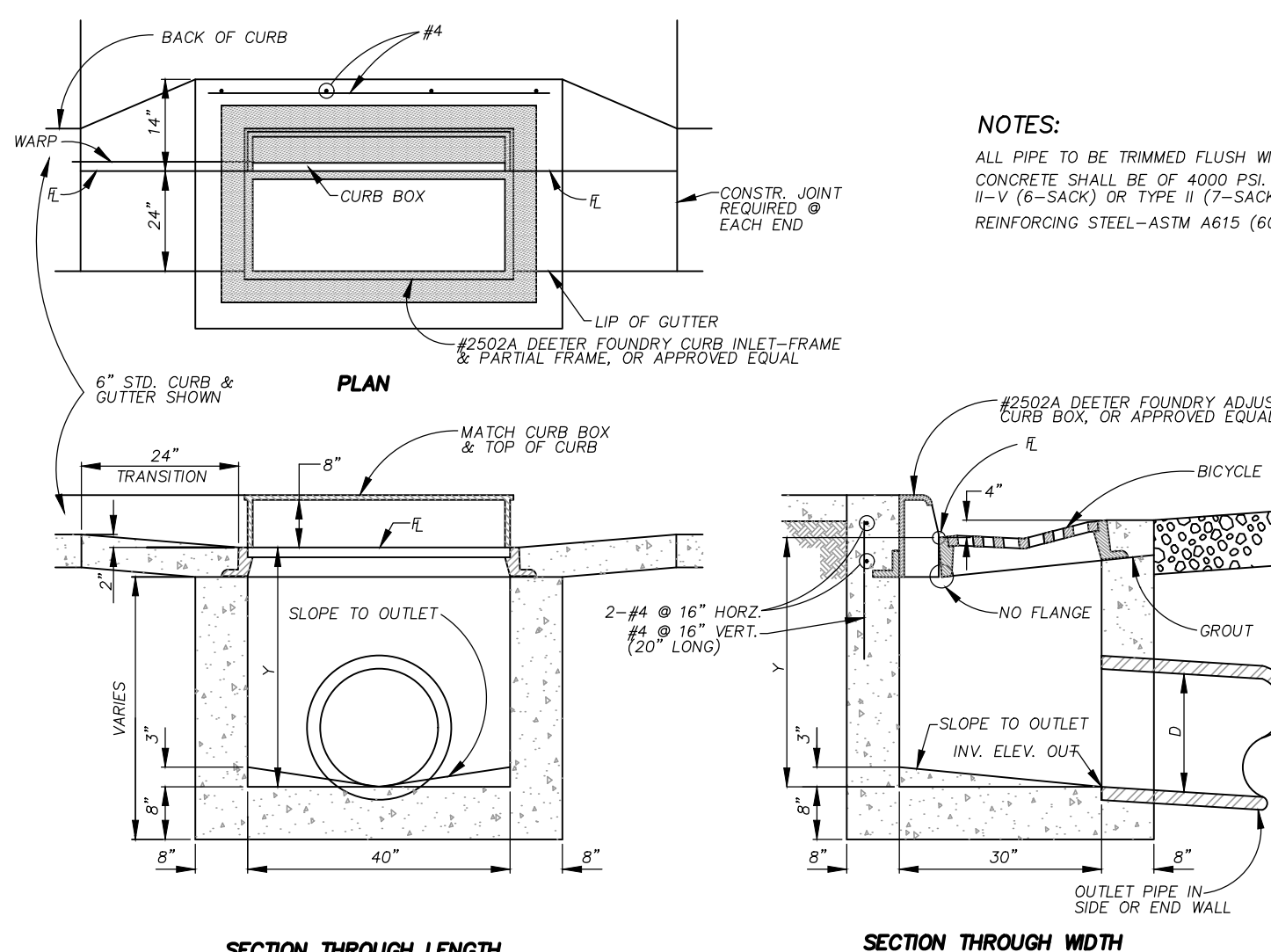
APPROVAL STAMP

UPSTREAM RISER: - CABLE ALWAYS CLEANS DOWNSTREAM
 DOWNSTREAM RISER: - CABLE ALWAYS CLEANS UPSTREAM



BI-DIRECTIONAL CLEAN-OUT DETAIL

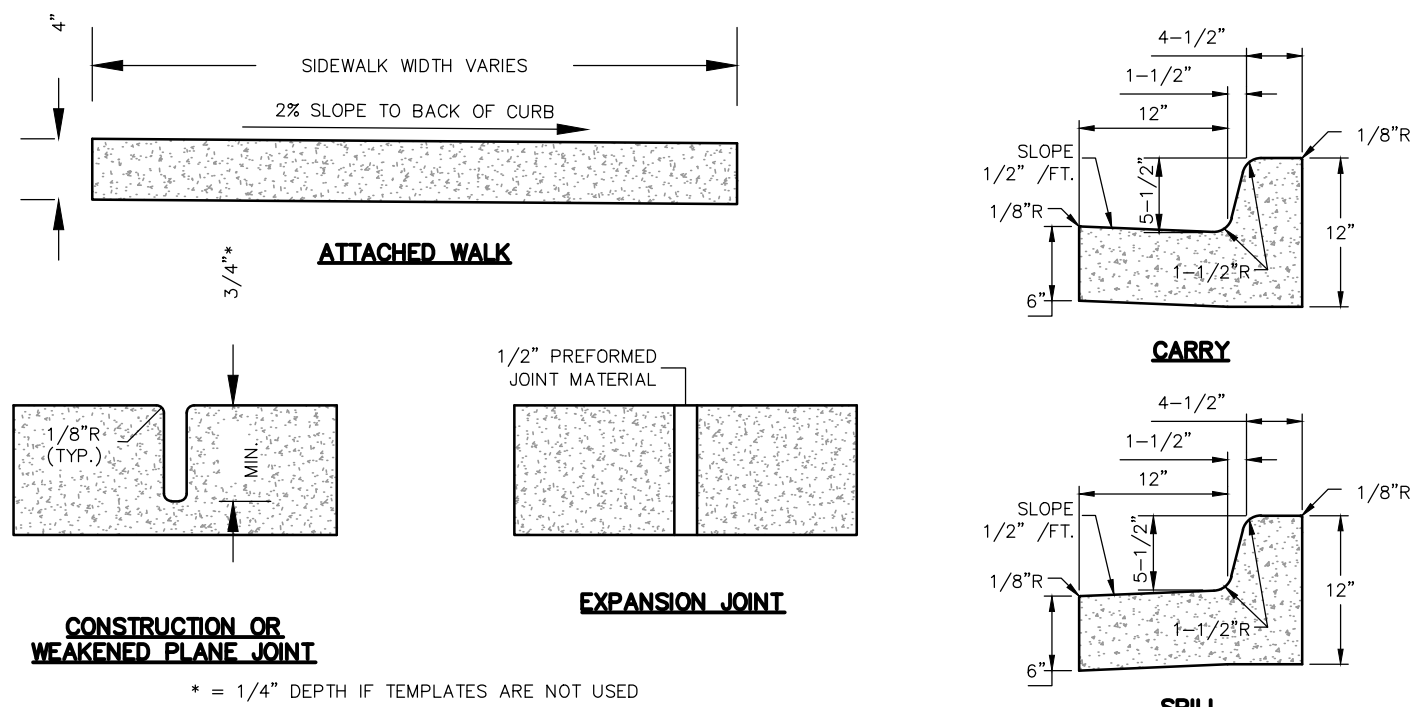
NOTE: NOT TO SCALE
 CLEAN-OUTS ADJACENT TO BUILDINGS AND INSTALLED ON SERVICE CONNECTION INTO THE BUILDING SHALL BE BI-DIRECTIONAL CLEAN-OUTS. ALL REMAINING CLEAN-OUTS SHALL BE UPSTREAM RISERS TO CLEAN DOWNSTREAM.



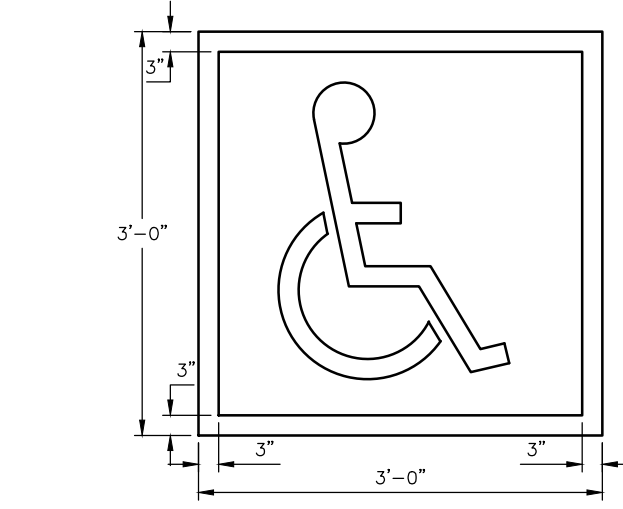
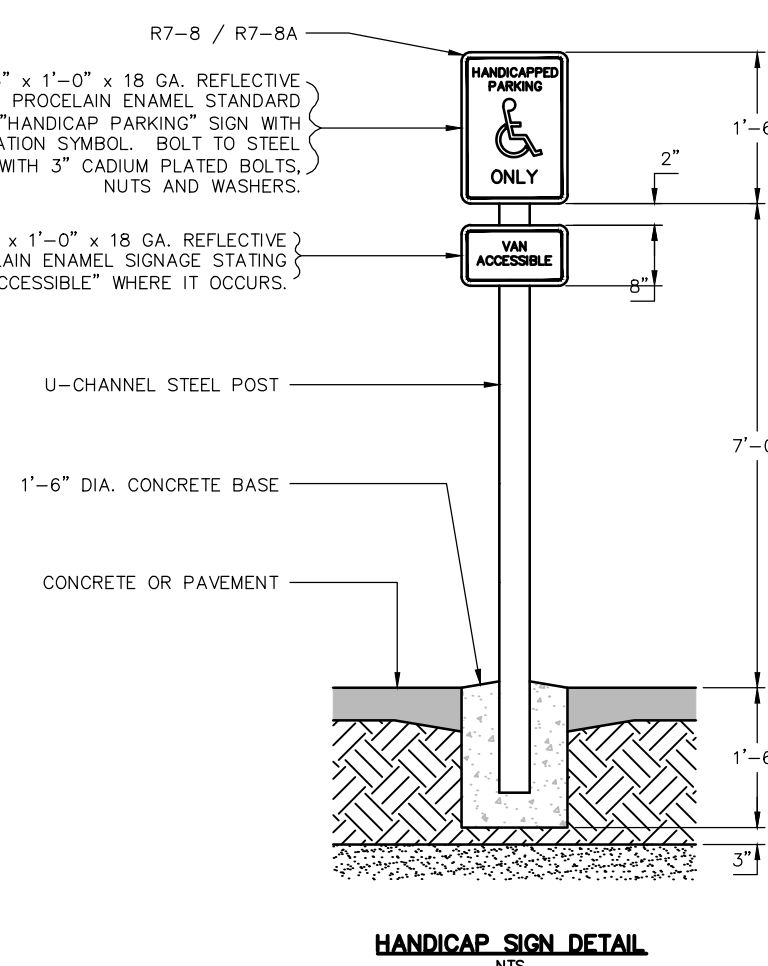
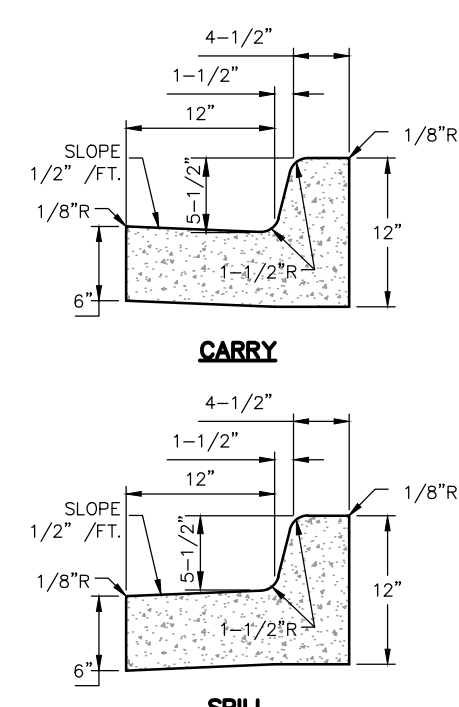
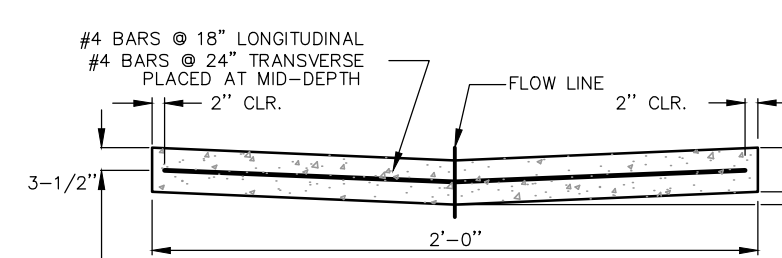
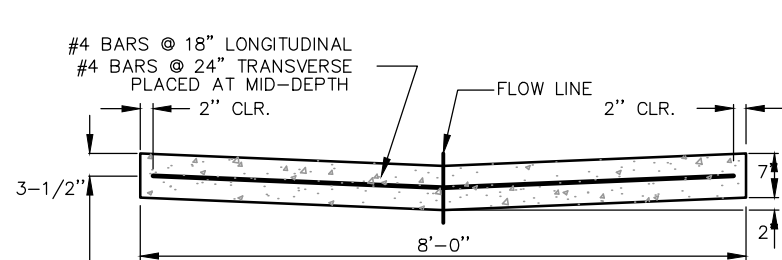
TYPE 16 INLET DETAIL
 NOT TO SCALE

NOTES:

ALL PIPE TO BE TRIMMED FLUSH WITH INSIDE WALL OF BOX.
 CONCRETE SHALL BE OF 4000 PSI AT 28 DAYS WITH TYPE II-V (6-SACK) OR TYPE II (7-SACK) CEMENT.
 REINFORCING STEEL-ASTM A615 (60,000 PSI MIN. YIELD)

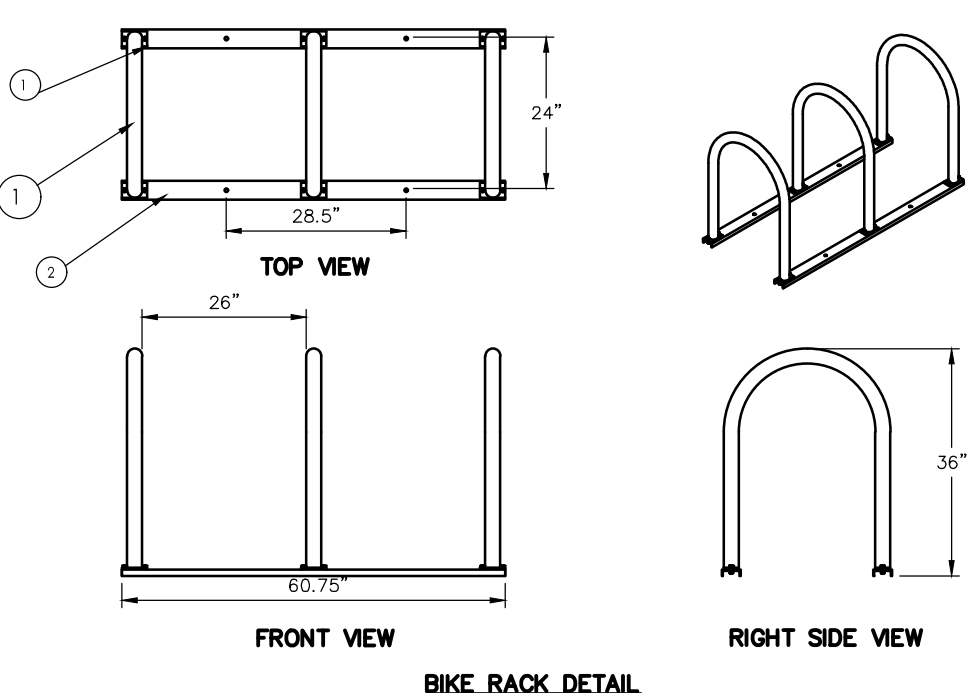
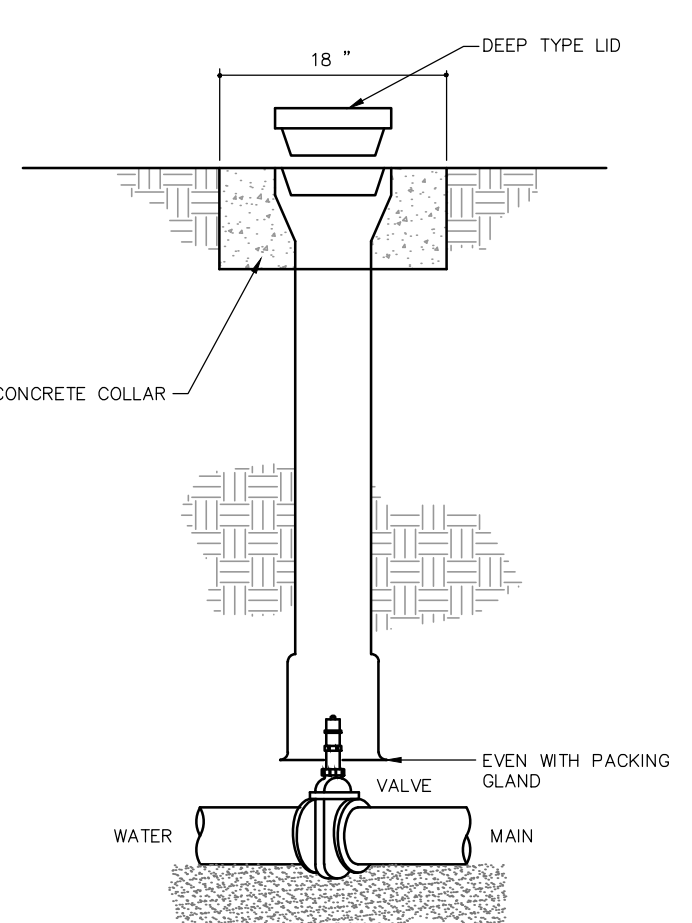
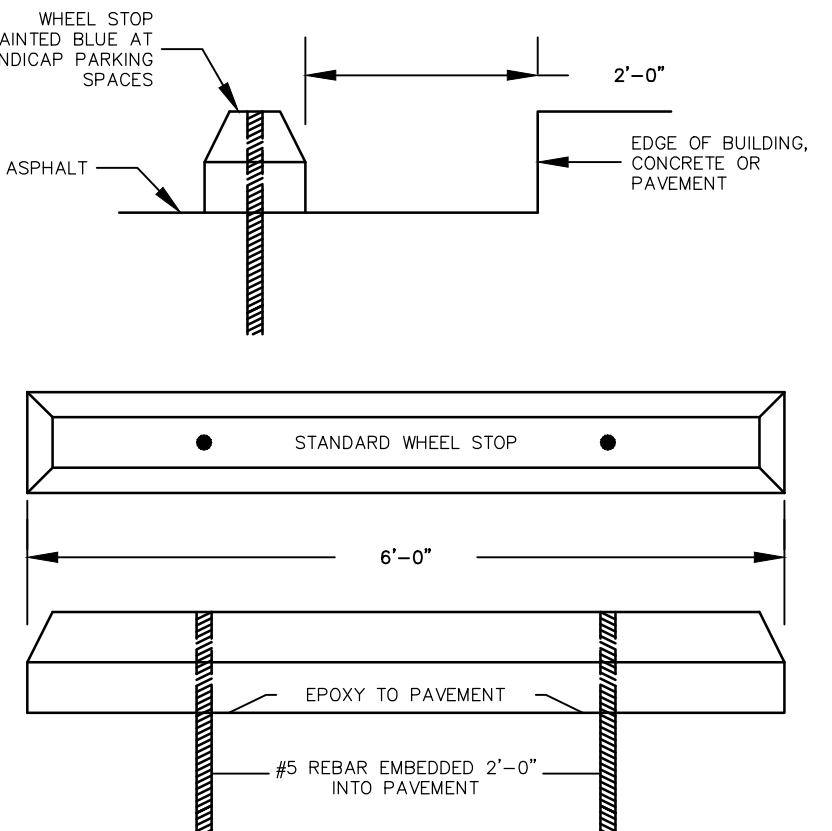


MODIFIED RAMP CURB & GUTTER

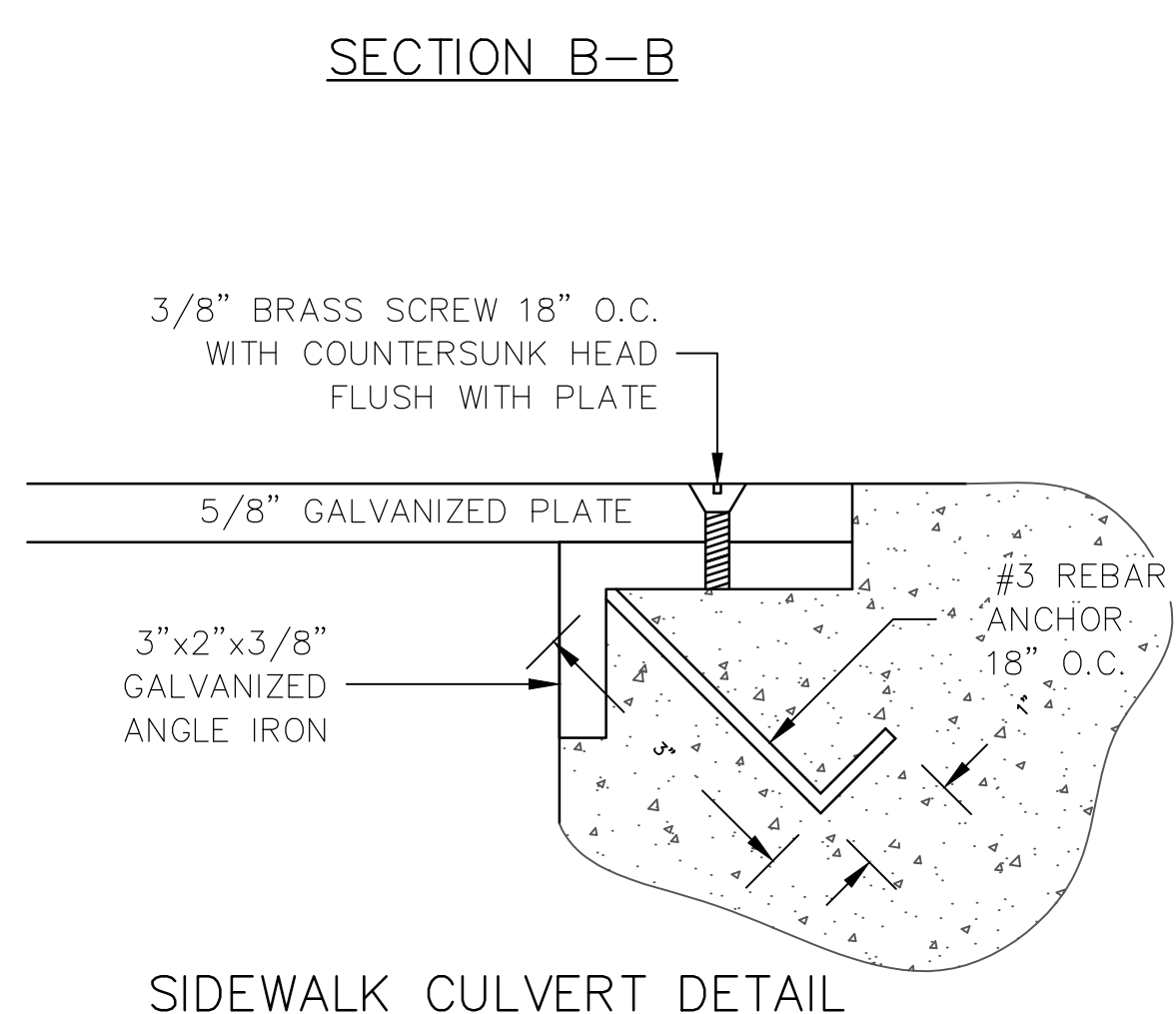
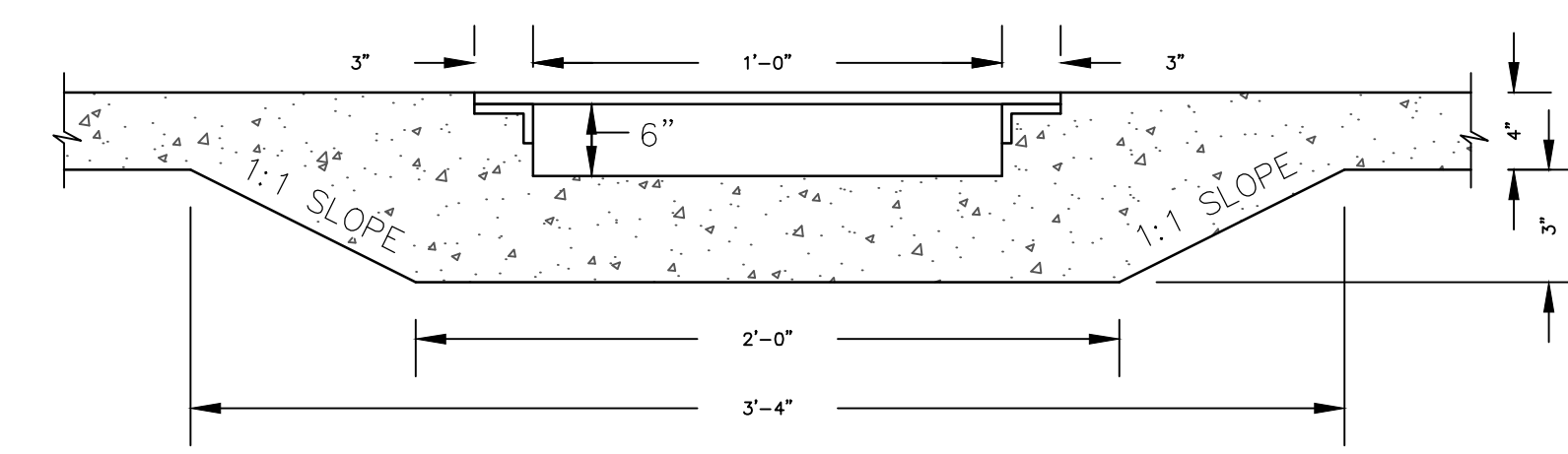
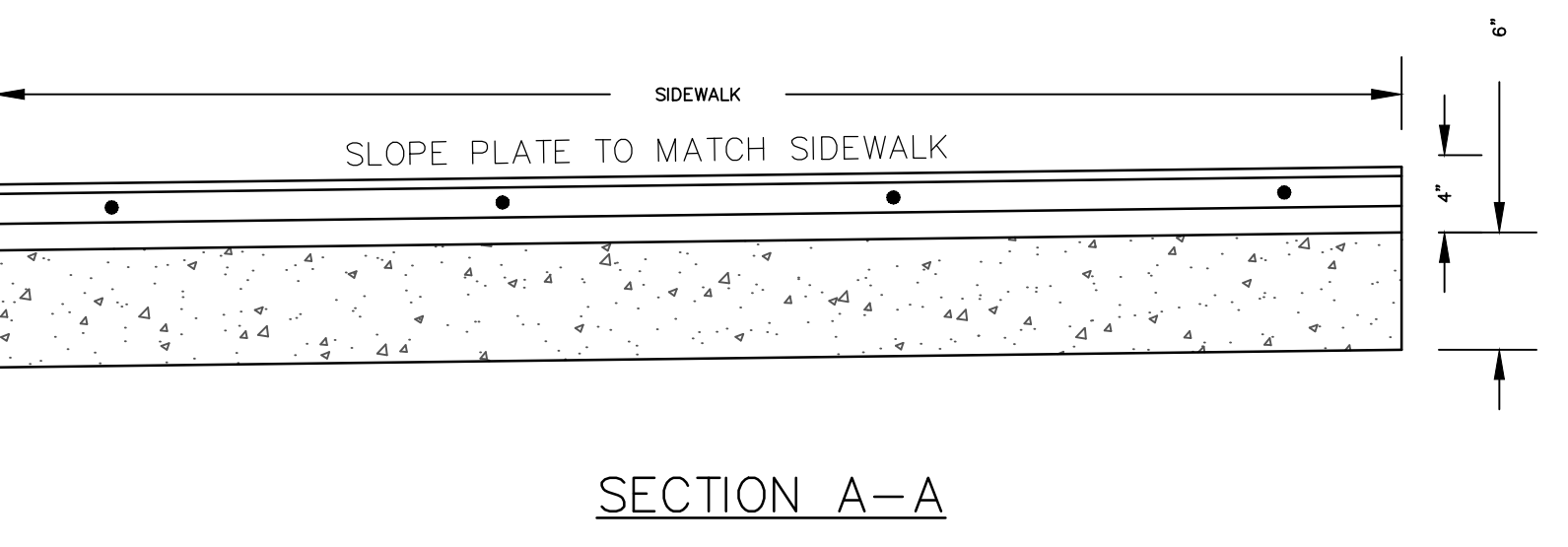
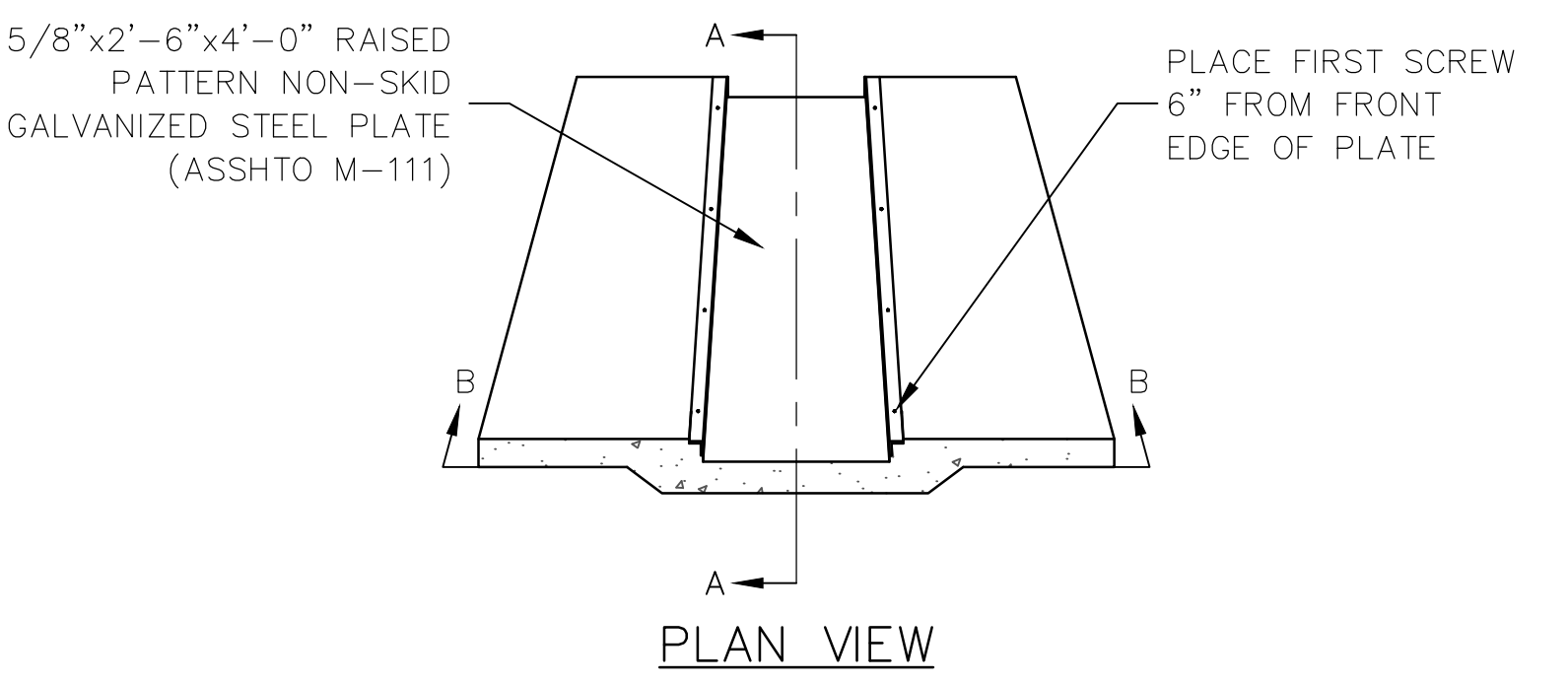


NOTE:

1. ALL STROKES TO BE 3" WIDE
2. PROVIDE TWO COATS OF PAINT
3. BLUE BACKGROUND WITH WHITE SYMBOL
4. LOCATE SYMBOL IN CENTER OF STALL
5. INSTALL ONE SYMBOL PER HANDICAP PARKING SPACE



- MATERIALS LIST:**
- (1) TUBING - #2-3/8" X .154" WALL STEEL TUBING
 - (2) SURFACE PLATE - #7 1/2" X 1/4" THICK STEEL PLATE WITH THREE #9/16" MOUNTING HOLES.
 - (3) MOUNTED WITH SIX #1/2" X 4-5" STAINLESS STEEL ANCHOR BOLTS (CUSTOMER SUPPLIED)

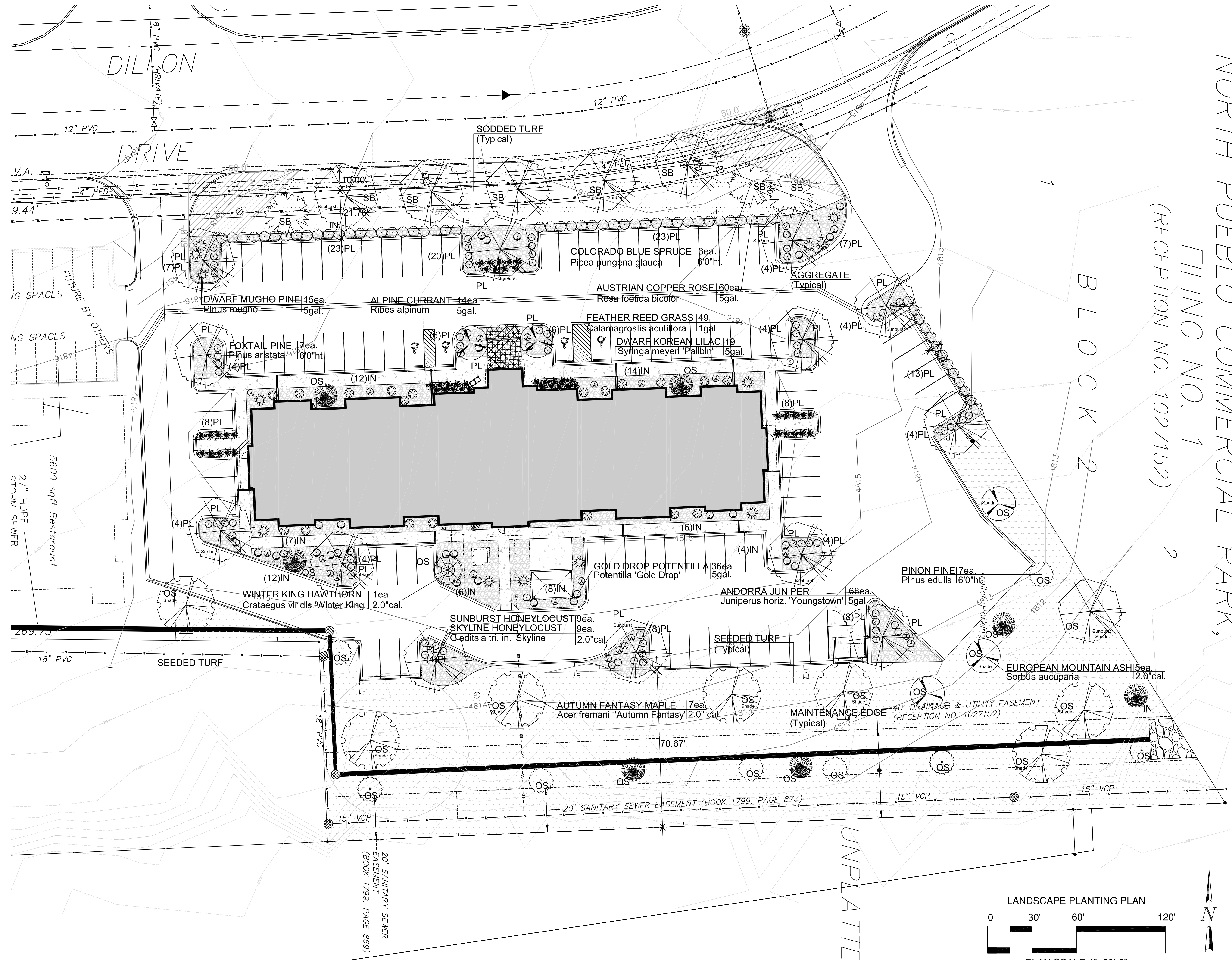


APPROVAL STAMP

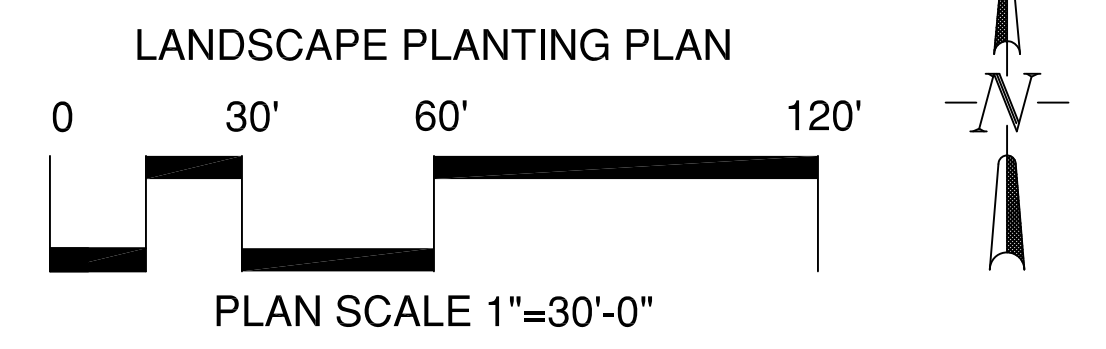


THIS CONSTRUCTION PLAN COMPLIES WITH ALL CITY OF PUEBLO DESIGN STANDARDS WITH THE MOST CURRENT STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.

MARK	△	△	△	△	△
DATE					
REVISION					
REVISED BY					
PROJECT NAME	4640 DILLON DRIVE CANDLEWOOD SUITES PUEBLO, CO				
SHEET TITLE	DETAIL SHEET				
PREPARED UNDER THE DIRECT SUPERVISION OF KIM KLAYTON KOCK, P.E., COLORADO REGISTRATION NO. 19799.					
SCALE:	NO SCALE				
DATE:	10-21-16				
DESIGN BY:	MLC				
DRAWN BY:	JCS				
CHECKED BY:	KK				
FILE:	C5.0-DTL_JCS.DWG				
JOB NO.	0606902				
	C5.0				
	SHEET 5 OF 5				



NORTH PUEBLO COMMERCIAL PARK,
 (RECEPTION NO. 1027152)
 BLOCK 2
 FILING NO. 1
 2



APPROVAL

William Gaman & Associates, L.P.
 LANDSCAPE ARCHITECTS
 781 North Weber Street, Suite 10
 Colorado Springs, CO 80903
 719 533 9700
 Email: info@gaman.net

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Candlewood Suites
Pueblo, CO
 LANDSCAPE DEVELOPMENT PLAN

DATE: 09/26/16
 DRAWN: WFG
 CHECKED: MST



REVISIONS:		
DATE:	BY:	COMMENTS:
09/20/16	WFG	Add plant callouts
10/27/16	EM, WFG	Site amendments made

LANDSCAPE DEVELOPMENT PLAN

SHEET NO.

LS-1

1 OF 6 SHEETS

LANDSCAPE SCHEDULE

Planting Schedule:

SYM.	QTY.	BOTANICAL NAME COMMON NAME	TREE %	MATURE HT. / WD.	PLANTING SIZE
TREES B&B or container, Nursery Grown, Size to meet or exceed AAN, min. size					
1	1	WINTER KING HAWTHORN (Crataegus viridis 'Winter King')	12%	20-30' 15-20'	2.0' Cal.
3	3	COLORADO BLUE SPRUCE (Picea pungens glauca)	5%	40-60' 20-30'	8' Ht.
5	5	EUROPEAN MOUNTAIN ASH (Sorbus aucuparia)	10%	50-60' 40-50'	2.0' Cal.
7	7	FOXTAIL PINE (Pinus aristata)	14%	20-40' 10-20'	6' Ht.
7	7	MAPLE 'AUTUMN FANTASY' (Acer x Freemanii 'Autumn Fantasy')	9%	20-30' 15-25'	2.0' Cal.
7	7	PINON PINE (Pinus edulis)	23%	20-30' 15-20'	6' Ht.
9	9	50% SKYLINE HONEYLOCUST, 50% SUNBURST HONEYLOCUST (Gleditsia tria. in. 'Skyline' & 'Sunburst')	15%	40-50' 30-40'	2.0' Cal.

SHRUBS, GRASSES, GROUNDCOVERS

59	AUSTRIAN COPPER ROSE (Rosa foetida bicolor)	6-10' 6-8'	#5
49	FEATHER REED GRASS (Calamagrostis acutiflora 'Karl's Foerster')	4-5' 2-3'	#1
36	50% GOLD DROP / 50% MCKAY'S WHITE POTENTILLA (Potentilla fruticosa 'Gold Drop' / 'McKay's White')	2-3' 2-3'	#5
68	ANDORRA YOUNGTOWN JUNIPER (Juniperus horizontalis 'Youngstown')	3-4' 3-4'	#5
14	ALPINE CURRANT (Ribes alpinum)	3-4' 3-4'	#5
15	DWARF MUGO PINE (Pinus mugo)	3-4' 6-8'	#5
19	DWARF KOREAN LILAC (Syringa meyeri 'Palibor')	4-6' 4-8'	#5

SYMBOL KEY:

SYMBOL	DESCRIPTION/REMARKS
	MAINTENANCE EDGING: Steel Maintenance Edge
	SODDED TURF: install on amended soil bed
	SHREDDED BARK MULCH: placed to a uniform 4" depth around all tree root balls in sod & seeded areas (not required in aggreg. areas)
	AGGREGATE: 2-4" Whole Washed River Cobble to a depth of 4" on fabric underlayment
	SEEDED TURFGRASS: Low Grow Mix from Arkansas Valley Seed Solutions - 30% Ephantim Crested Wheatgrass, 25% Dwarf Perennial Ryegrass, 20% SR3200 Blue Fescue, 15% Reubens Canada Bluegrass, 10% Chewings Fescue. Drill seed & crimp down straw @ 1 ton/acre rate

LANDSCAPE SITE CATEGORY CALCULATIONS:

LANDSCAPE SETBACKS:	Width (in ft.)	Linear Req./Prov.	Tree-Shrub/Linear Feet Required
Street Name Dillon Drive	10/10'	250'	1 Tree & 5 Shrubs or 25 sq ft of living ground cover per 30 LF
Setback Plant Abbr. Denoted on Plan	SB	70% / 70%	Required: 8 Trees + 150 Shrubs or 209 sq ft of living ground cover Provided: 8 Trees (8a, Shade Trees) + 1,500 sq ft of living ground cover (sodded/irrigated turf)

PARKING LOT:	No. of Vehicle Spaces Provided	Landscaping Required (islands only)	Shade Trees + Shrubs Required/Provided	Parking Lot/Screen Plant Abbr. Denoted on Plan
	95	1 Shade Tree & 4 Shrubs in each parking lot island or 1 Shade Tree & 25 sq ft of living ground cover instead of each required shrub.	Required: 15 Trees + 84 Shrubs Provided: 15 Trees + 84 Shrubs	PL
Parking Lot/Screen:	250' Dillon Drive	Linear Footage: 250'	Screen Required: yes	Parking Lot Screen Required/Provided: Shrubs

LANDSCAPED OPEN SPACE:	Net Site Area (SF)	Percent Min. Req'd (C.W. & ESMTS)	Open Space Area (SF) Required/Provided	Internal Trees+Shrub (1/500 SF) Required
	29,479 sf	20% / 60%	21,555 sf / 49,180 sf	1 Tree per 1,000 sf required open space 70% Ground Cover of Total Req. Open Space
Internal Plant Abbr. Denoted on Plan	OS	Percent Living Material Vesp. Req./Prov. 70% / 70%	Internal Trees+Shrub (1/500 SF) Required/Provided	Required: 22 Trees (8 Shade Trees) & 21,555 sf of live ground cover Provided: 22 Trees (8 Shade Trees, 14 Evergreen Trees, 6 Ornamental Trees), & 40,555 sf of live ground cover

LANDSCAPE TREATMENT SUMMARY:
Total Internal Bluegrass Blended Sodded Area: 7,305 sf
Total Internal Dryland Seeded Area: 33,250 sf
Total Internal Aggregate/Shrub Planter Area: 8,625 sf
Total Open Space Landscape Area: 49,180 sf

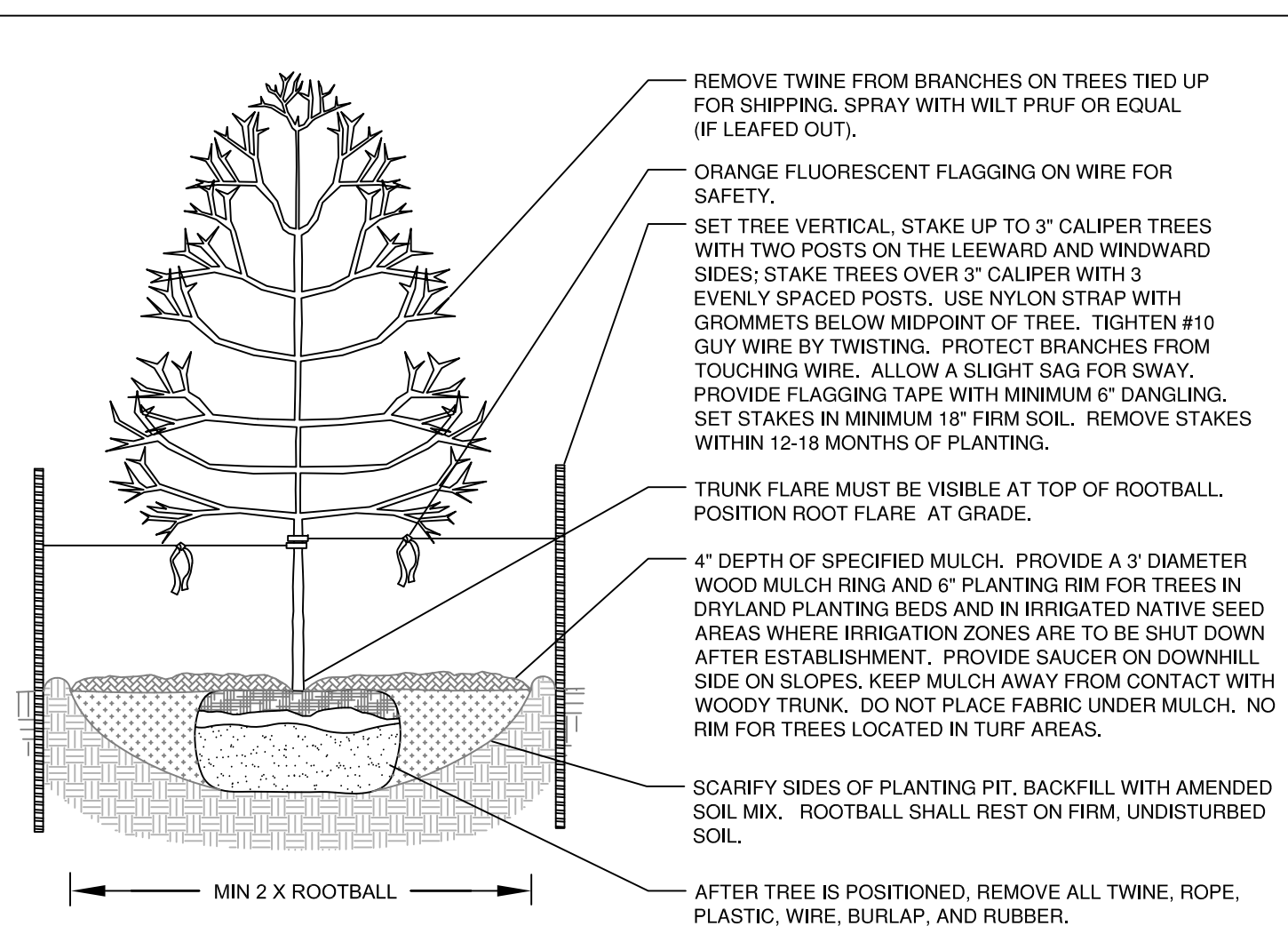
BUFFER:	Adjacent Property	Adjacent to Residential	Property Line Length	Trees Required/Provided	Fencing Materials	Minimum/Actual Width
West	No	No	293 LF	15 / 7	N.A.	N.A.
East	No	No	360 LF	18 / 12	N.A.	10' / 5'
South	No	No	470 LF	24 / 24	N.A.	10' / 71'

PLANTING NOTES:

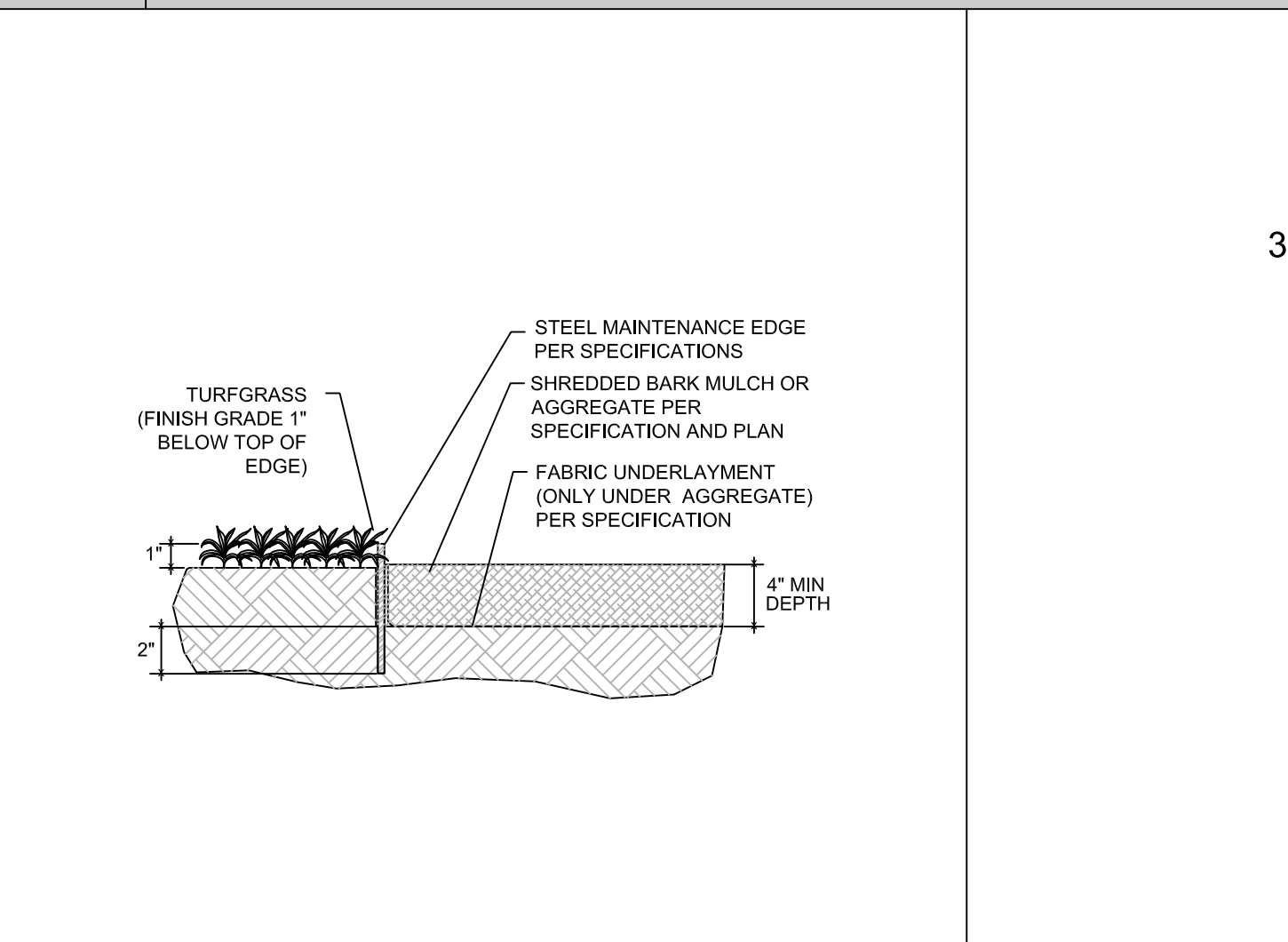
- AT TIME OF PLANTING, DO NOT REMOVE OR CUT LEADER AND PRUNE ONLY DEAD OR BROKEN BRANCHES. CROSS OVER BRANCHES. AND WEAK OR NARROW CROTCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
- STRUCTURAL PRUNING SHOULD NOT BEGIN UNTIL AFTER ESTABLISHMENT PERIOD, USUALLY TWO GROWING SEASONS.
- KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
- DO NOT FERTILIZE FOR AT LEAST ONE GROWING SEASON.
- AMENDED BACKFILL SHALL BE 1/3 COMPOST (PREFERABLY CLASSIFIED) AND 2/3 NATIVE AND/OR IMPORTED TOPSOIL.
- WRAP TRUNK ON EXPOSED SITES AND SPECIES WITH THIN BARK. USE ELECTRICAL OR DUCT TAPE, NOT TWINE.
- DEEP WATER ALL PLANTS AT TIME OF PLANTING.

GENERAL NOTES:

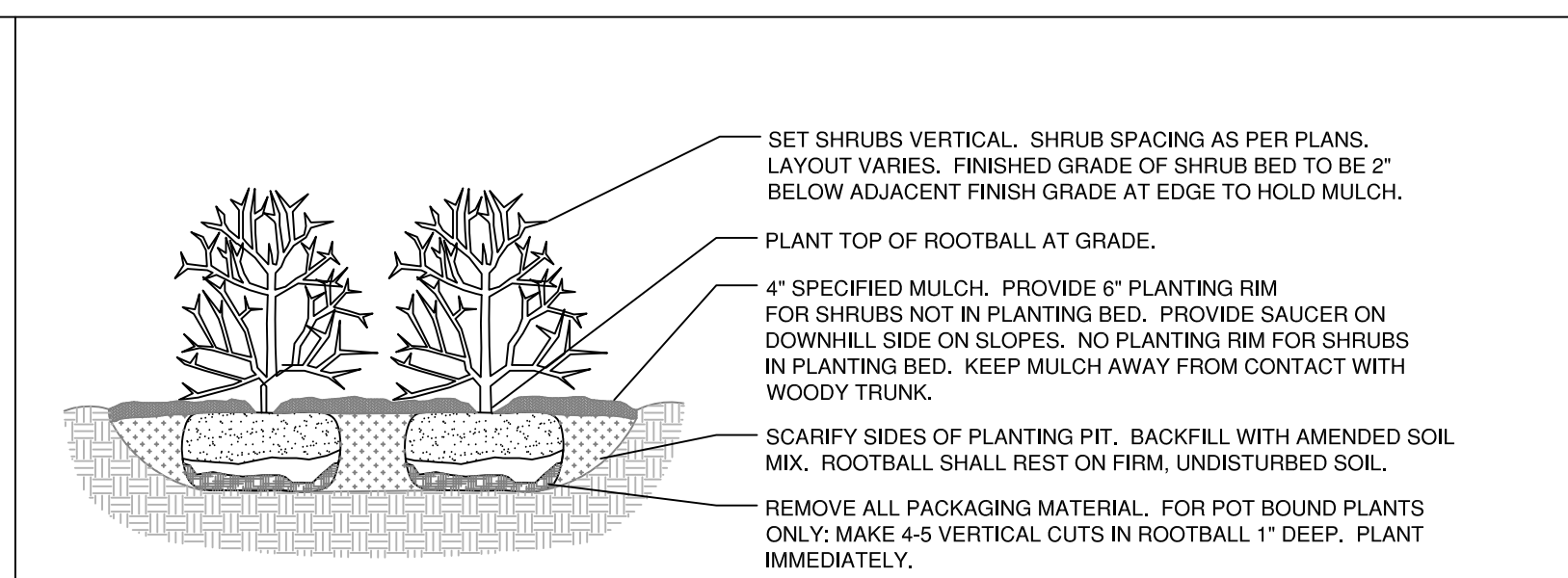
- DRAWINGS ARE DIAGRAMMATIC; PRECISE PLACEMENT OF COMPONENTS MAY NOT BE POSSIBLE AS INDICATED. CONSULT PROJECT LANDSCAPE ARCHITECT PRIOR TO MAKING RANDOM FIELD CHANGES WHICH MAY ALTER DESIGN INTENT.
- QUANTITIES ARE PROVIDED FOR REFERENCE ONLY; VERIFY ALL QUANTITIES PRIOR TO SUBMITTING COST PROPOSAL. IN THE EVENT OF A CONFLICT BETWEEN SCHEDULED, IMPLIED, OR EXPRESSED QUANTITIES, THOSE QUANTITIES WHICH CAN BE DETERMINED GRAPHICALLY FROM THE DRAWINGS WILL PREVAIL IN ANY CASE.
- THE CONTRACTOR IS RESPONSIBLE FOR INSPECTION AND VERIFICATION OF ALL FIELD CONDITIONS AND RESOLVING CONFLICTS PERTAINING TO DIMENSIONS, LAYOUT, ETC., WHICH MAY AFFECT THE LANDSCAPE INSTALLATION. MOBILIZING SHALL BE CONSTRUED AS ACCEPTANCE OF CONDITIONS.
- COORDINATE ALL WORK INDICATED ON THESE DRAWINGS WITH WORK OF OTHER TRADES. THE PROJECT LANDSCAPE ARCHITECT RESERVES THE RIGHT TO CONSIDER AND APPROVE ALTERNATE INSTALLATIONS AT ANY TIME WHICH IN THE LANDSCAPE ARCHITECT'S OPINION MAXIMIZES THE CONSTRUCTION BUDGET AND MAINTAINS DESIGN INTENT.
- ALL TREES TO HAVE 4" DEPTH WOOD MULCH RING IN ROCK MULCH, SOD, AND NATIVE SEED AREAS AS SHOWN IN THE DETAILS.
- PLANTING BACKFILL MIX: BLENDED 1 PART EXCAVATED SOIL, 1 PART SCREENED TOPSOIL, 1 PART ROTTED DAIRY MANURE.
- THERE SHALL BE A 3 FOOT CLEAR SPACE MAINTAINED AROUND THE CIRCUMFERENCE AROUND ALL FIRE HYDRANTS.
- EROSION CONTROL BLANKET TO BE APPLIED ON ALL SEEDING AREAS ON SLOPES INDICATED ON DRAWINGS.
- CONTRACTOR TO UTILIZE STOCKPILED TOPSOIL FROM GRADING OPERATION AS AVAILABLE. IF THE AMOUNT OF TOPSOIL NEEDED TO COMPLETE FINAL GRADING IS NOT AVAILABLE, THE CONTRACTOR SHALL IMPORT THE AMOUNT OF SOIL NEEDED. TILL INTO THE TOP 6" OF SOIL.
- ALL PARKING LOT ISLANDS AND MEDIANS NOT PROPOSED AS WATER QUALITY SWALES TO BE TILLED TO A DEPTH OF 30" PRIOR TO SOIL AMENDMENT AND PLANT INSTALLATION.
- ALL PARKING LOT ISLANDS AND MEDIANS NOT PROPOSED AS WATER QUALITY SWALES TO BE MOUNDING TO A HEIGHT OF 24" ABOVE FINISHED GRADE.
- ALL LANDSCAPE AND IRRIGATION MAINTENANCE SHALL BE DONE BY THE OWNER UPON COMPLETION OF LANDSCAPE INSTALLATIONS.



A TREE PLANTING AND STAKING
NOT TO SCALE

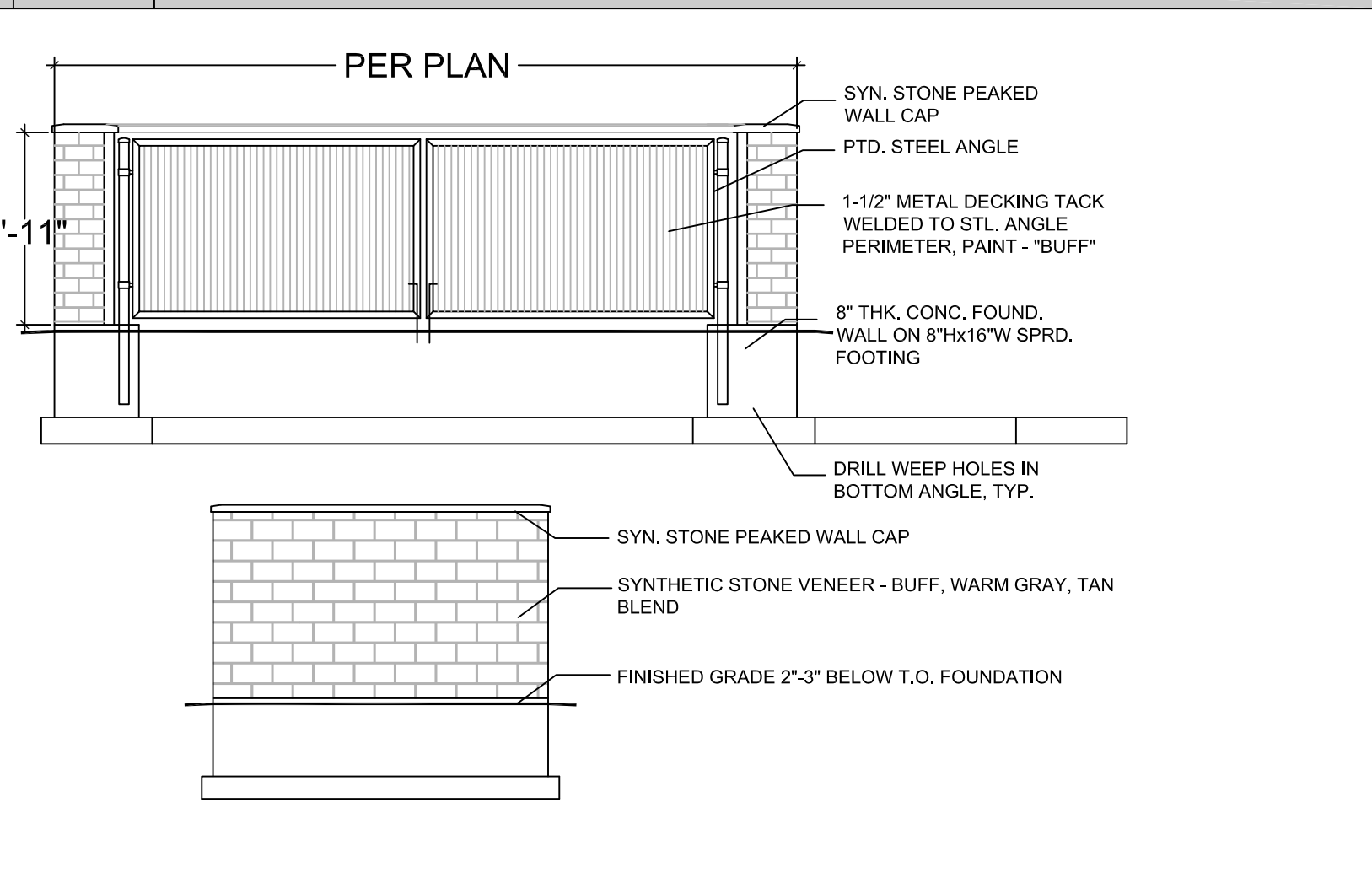


C STEEL MAINTENANCE EDGE
NOT TO SCALE



- NOTES:
- PRUNE ONLY DEAD OR BROKEN BRANCHES AND WEAK OR NARROW CROTCHES.
 - KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
 - DO NOT FERTILIZE FOR AT LEAST ONE GROWING SEASON.
 - AMENDED BACKFILL SHALL BE 1/3 COMPOST (PREFERABLY CLASSIFIED) AND 2/3 NATIVE AND/OR IMPORTED TOPSOIL.
 - ALL SHRUBS IN ROCK AREAS TO RECEIVE SHREDDED MULCH RINGS.
 - DEEP WATER ALL PLANTS AT TIME OF PLANTING.

B SHRUB PLANTING DETAIL
NOT TO SCALE



D TRASH ENCLOSURE
NOT TO SCALE

William Guinan & Associates, L.L.C.
Landscape Architecture
733 North Weber Street, Suite 20
Colorado Springs, CO 80909
Tel: 719.593.9700
Email: info@guinan.net

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Candlewood Suites
Pueblo, CO
LANDSCAPE DEVELOPMENT PLAN

DATE: 09/26/16
DRAWN: WFG
CHECKED: MST

WILLIAM GUINAN & ASSOCIATES
LA-167
10/1/2008
Original Date of License
LICENSED LANDSCAPE ARCHITECT
STATE OF COLORADO

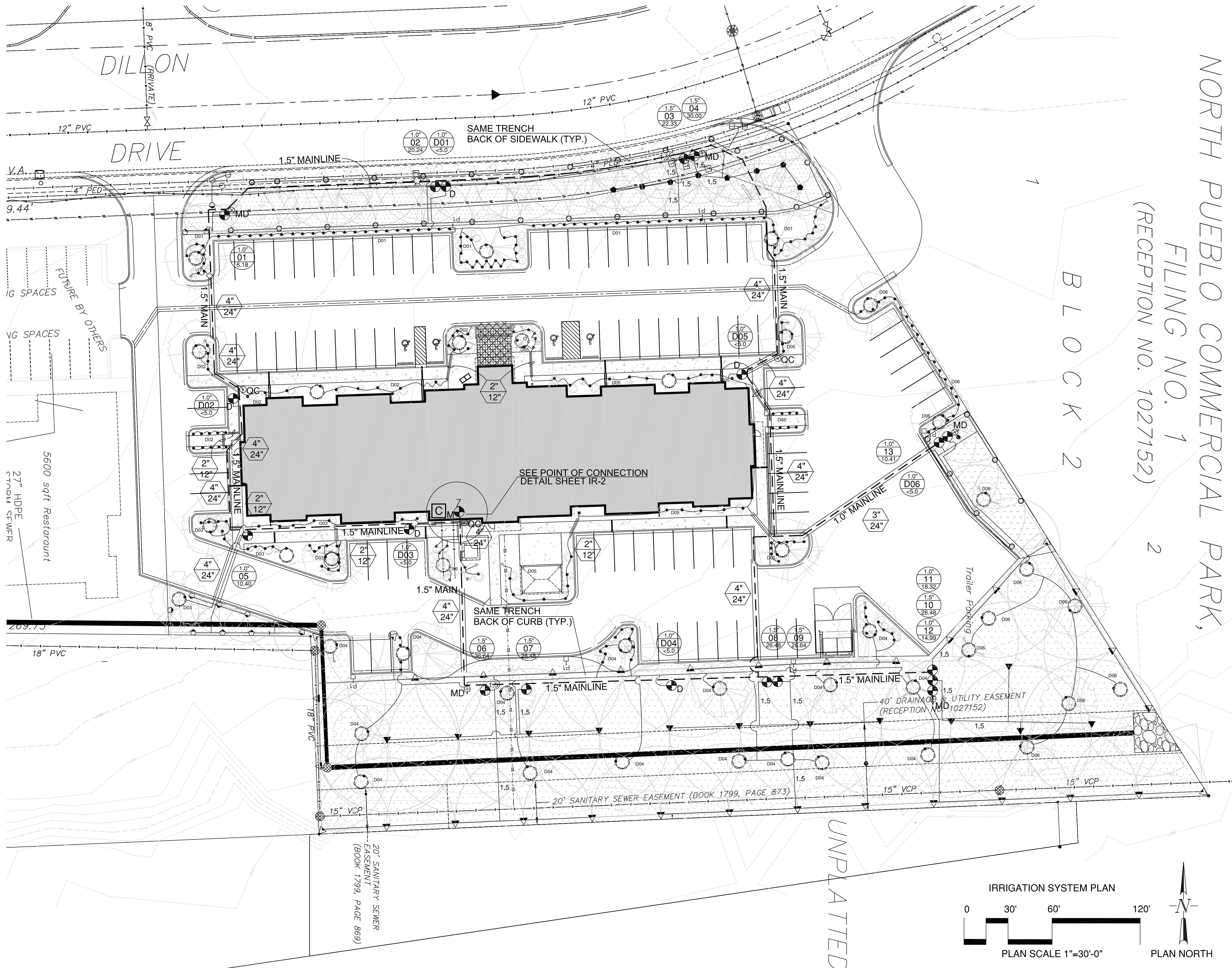
REVISIONS:

DATE:	BY:	COMMENTS:
09/26/16	WFG	Add grade contours
10/27/16	EM, WFG	site amendments added

LANDSCAPE DEVELOPMENT DETAILS

SHEET NO.
LS-2
2 OF 6 SHEETS

APPROVAL

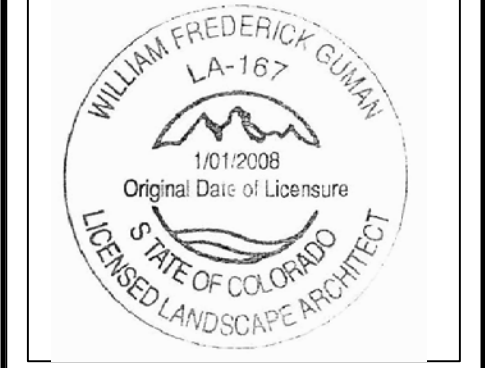


William Gaman
 & Associates, L.L.C.
 LANDSCAPE ARCHITECTS
 731 North Weber Street, Suite 10
 Colorado Springs, CO 80903
 719.633.9700
 Email: info@gaman.net

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Candlewood Suites Pueblo, CO
 LANDSCAPE DEVELOPMENT PLAN
 FILING NO. 1
 (RECEPTION NO. 1027152)
 BLOCK 2

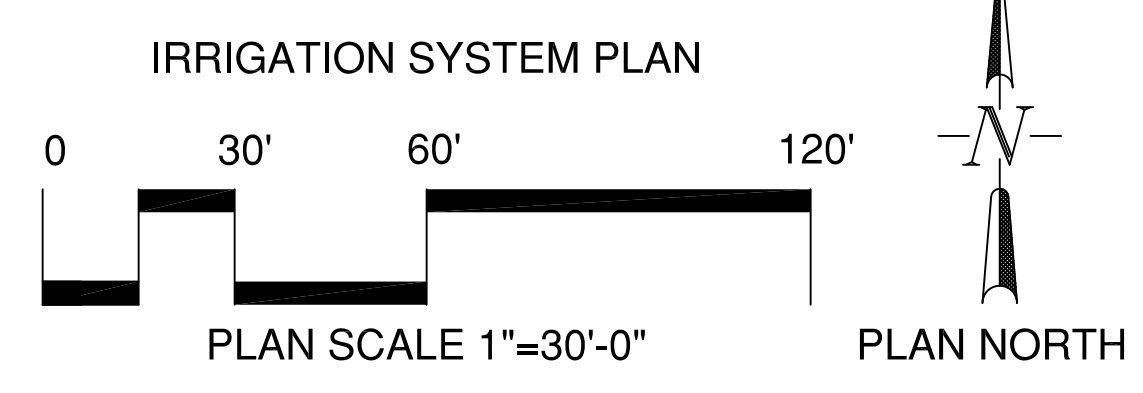
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 DRAWN: WFG
 CHECKED: MST



REVISIONS:		
DATE:	BY:	COMMENTS:
09/20/16	WFG	Add grade contours
10/27/16	EM, WFG	Site amendments added

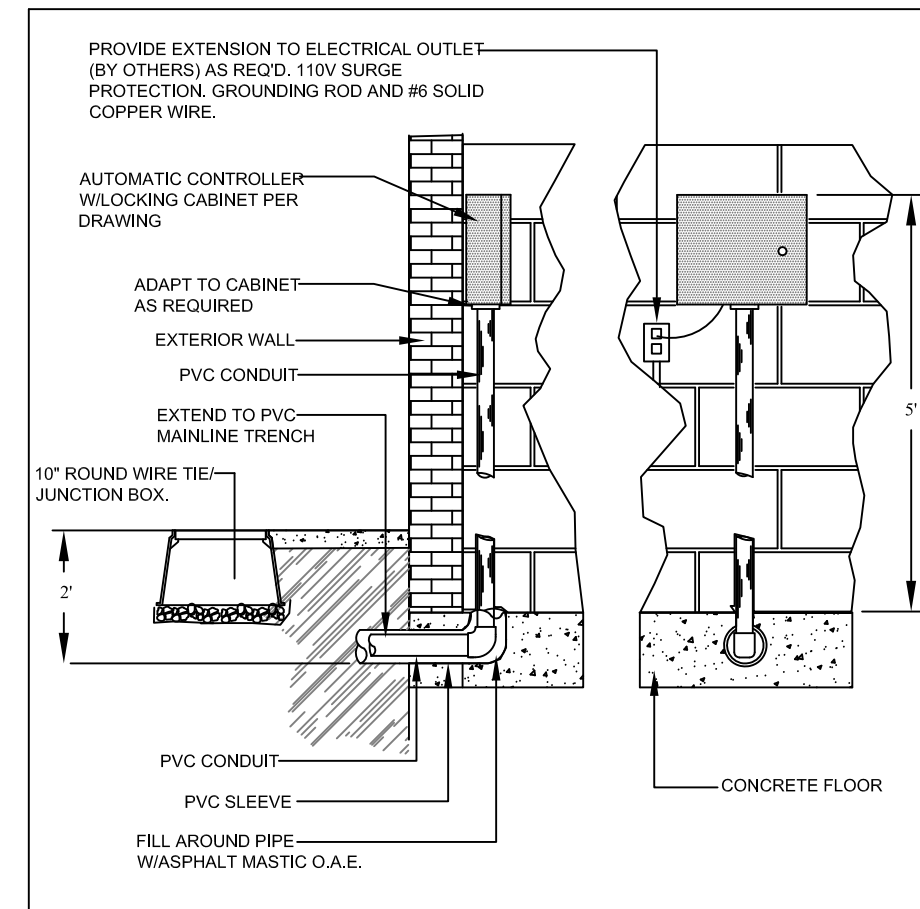
IRRIGATION DEVELOPMENT PLAN

SHEET NO.
IR-1
 3 OF 6 SHEETS

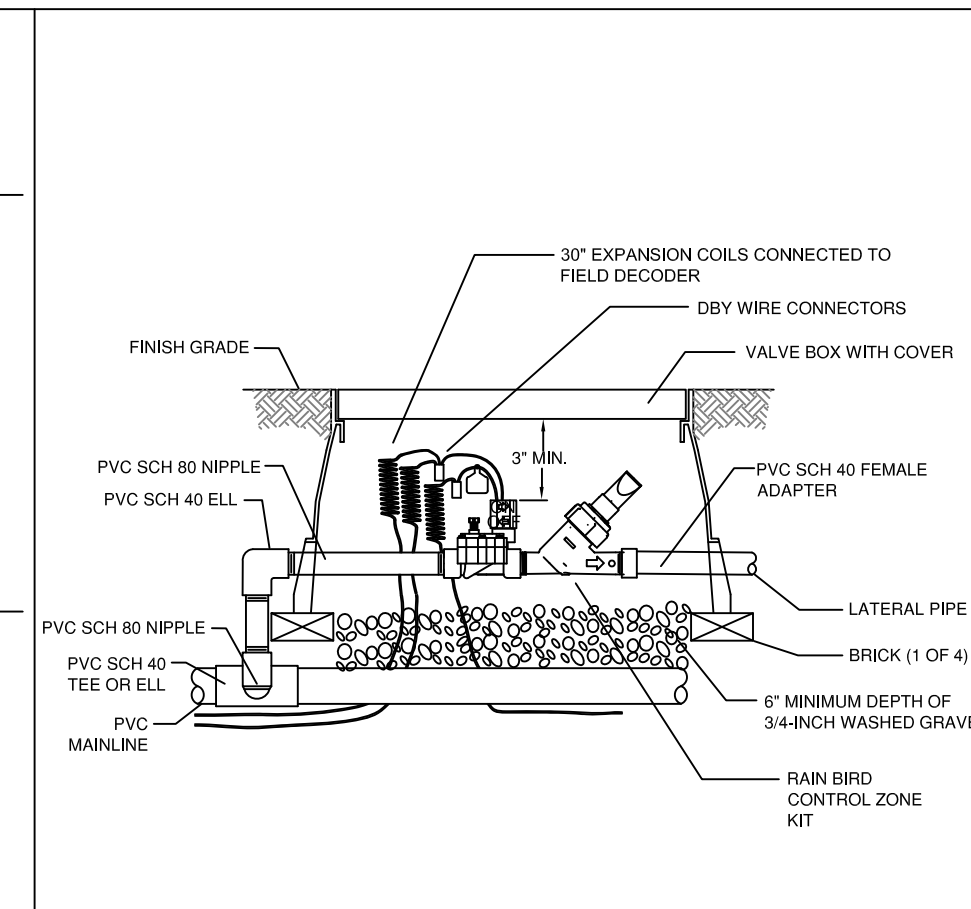


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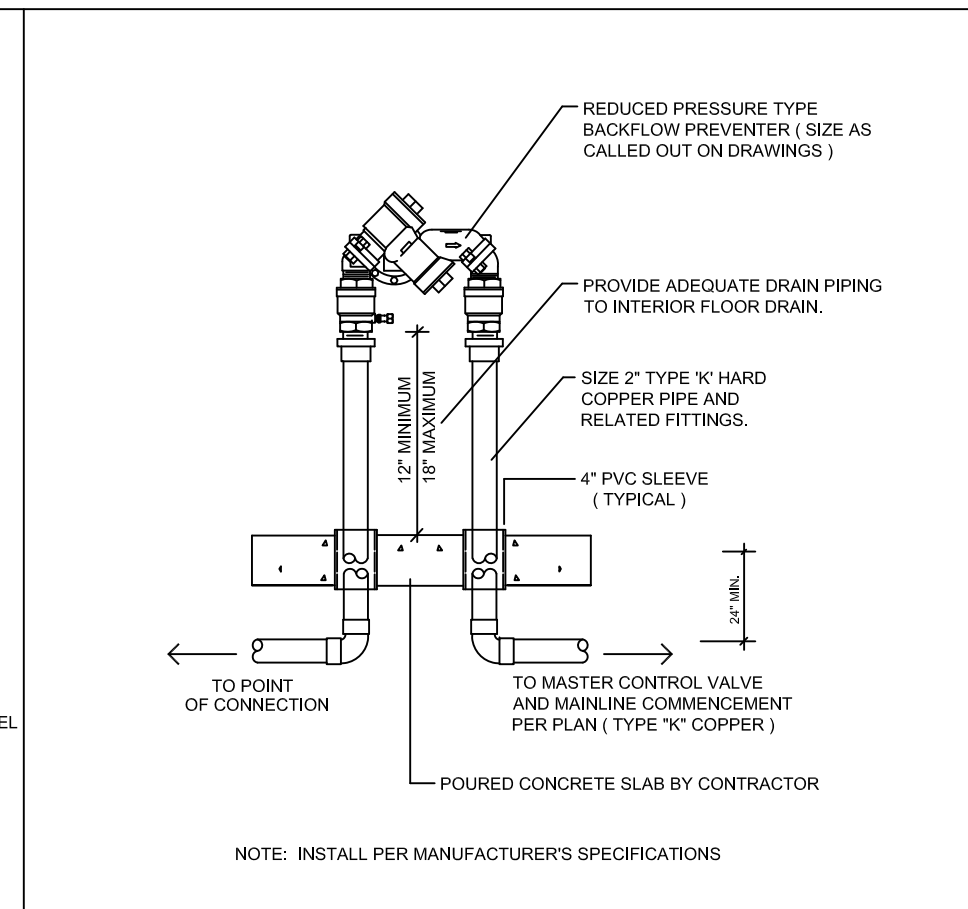
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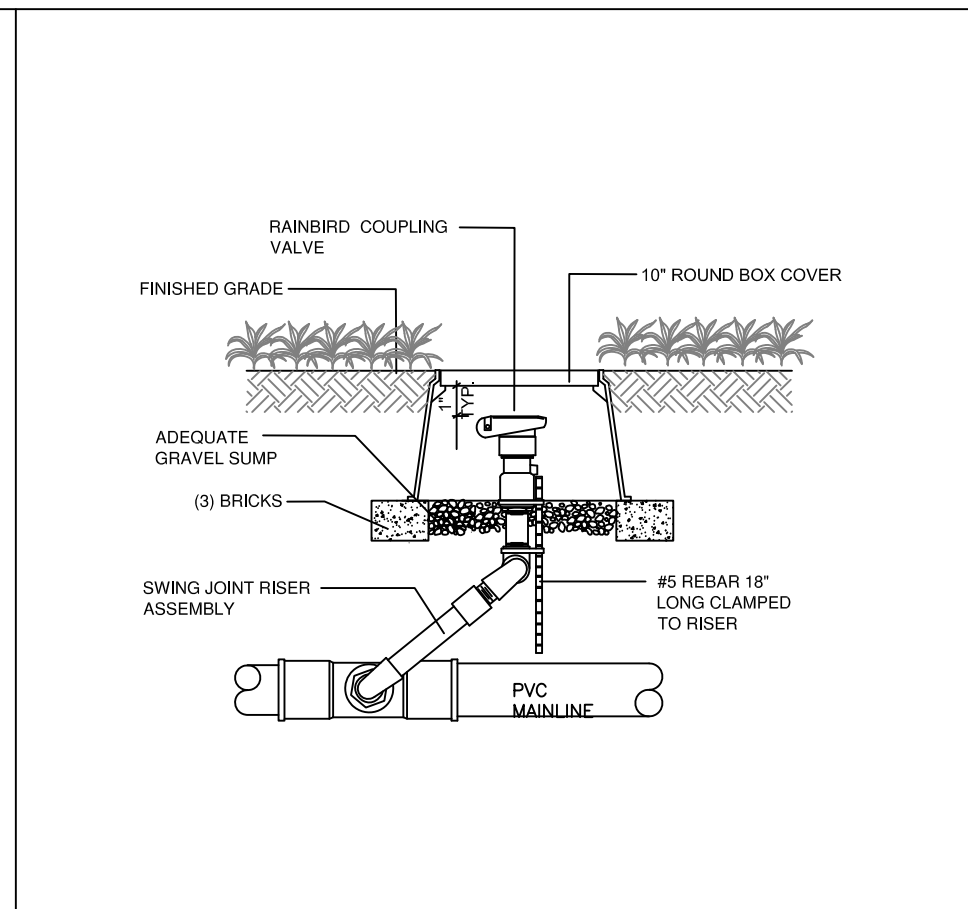
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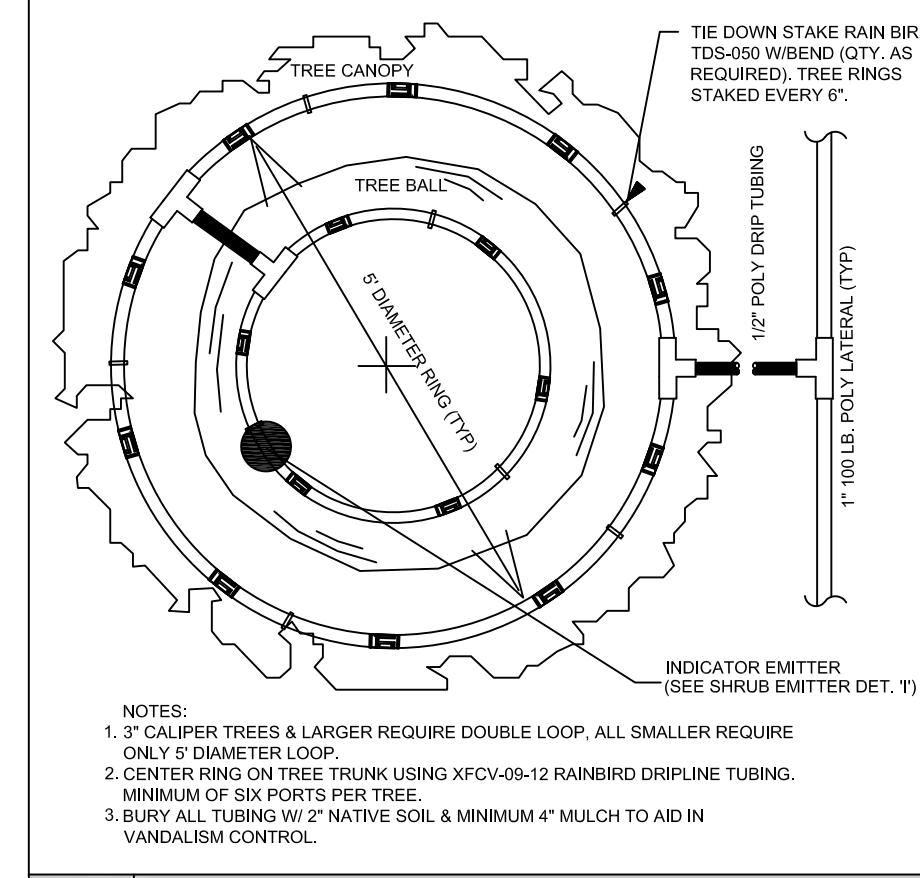
B DRIP CONTROL ZONE KIT
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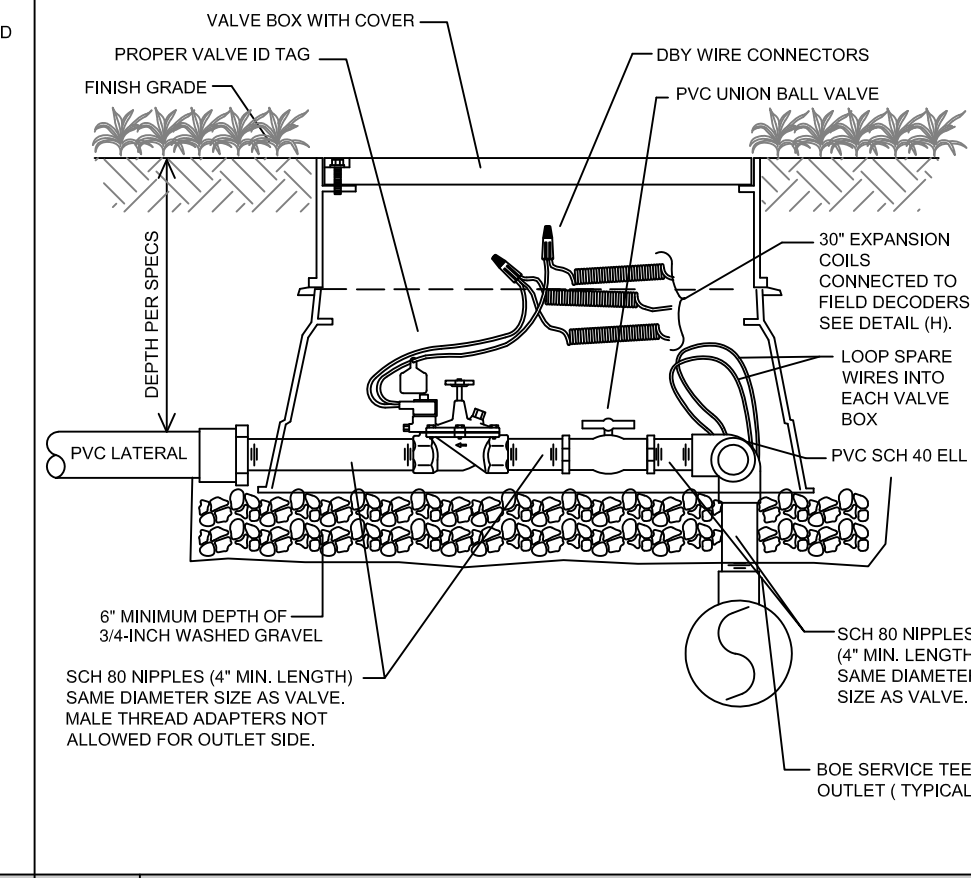
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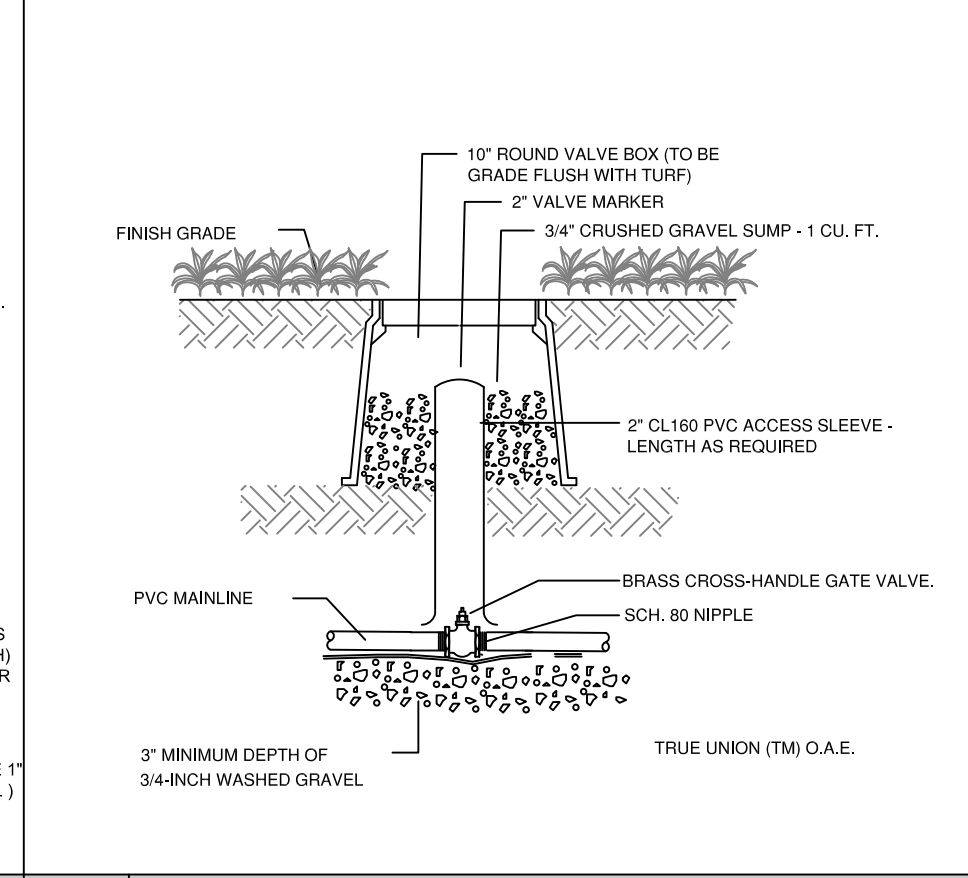
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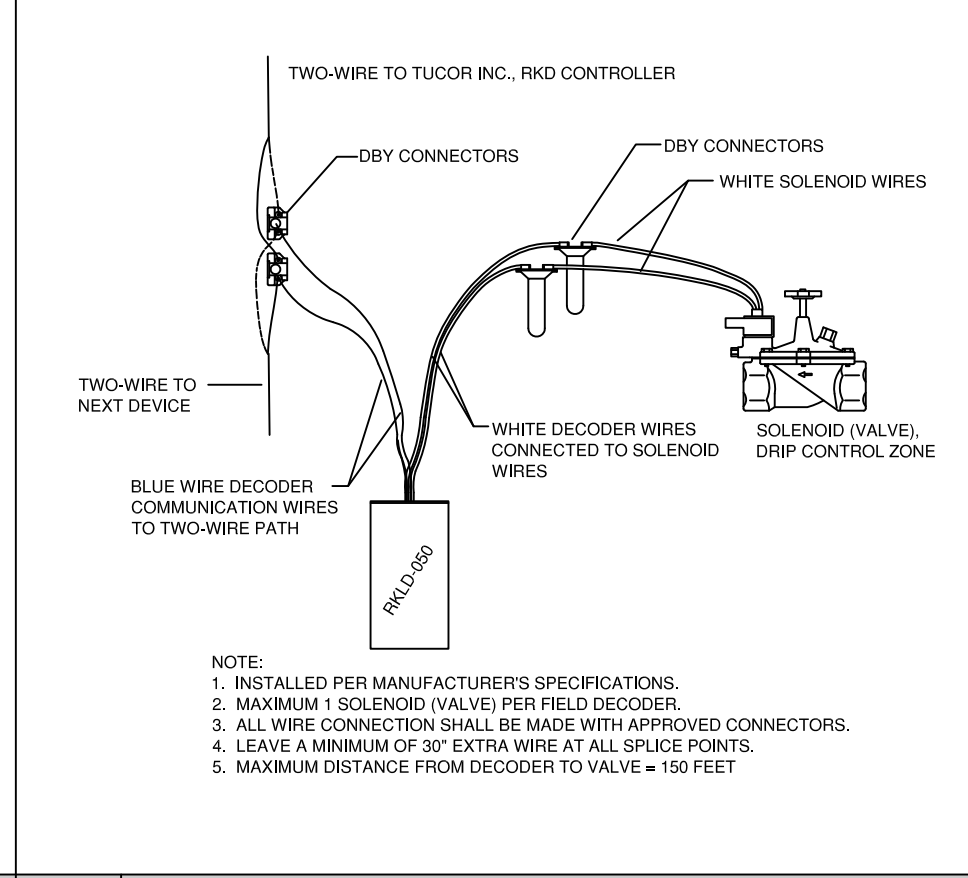
E TREE RING DETAIL
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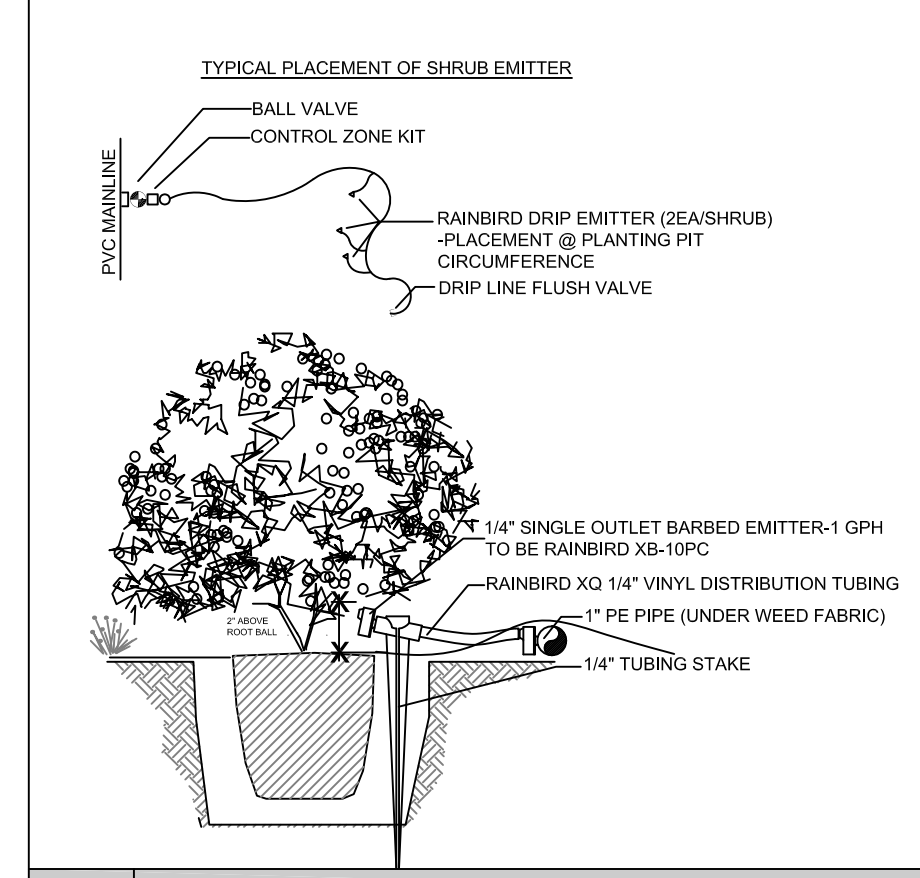
F RAINBIRD PEB PLASTIC VALVE
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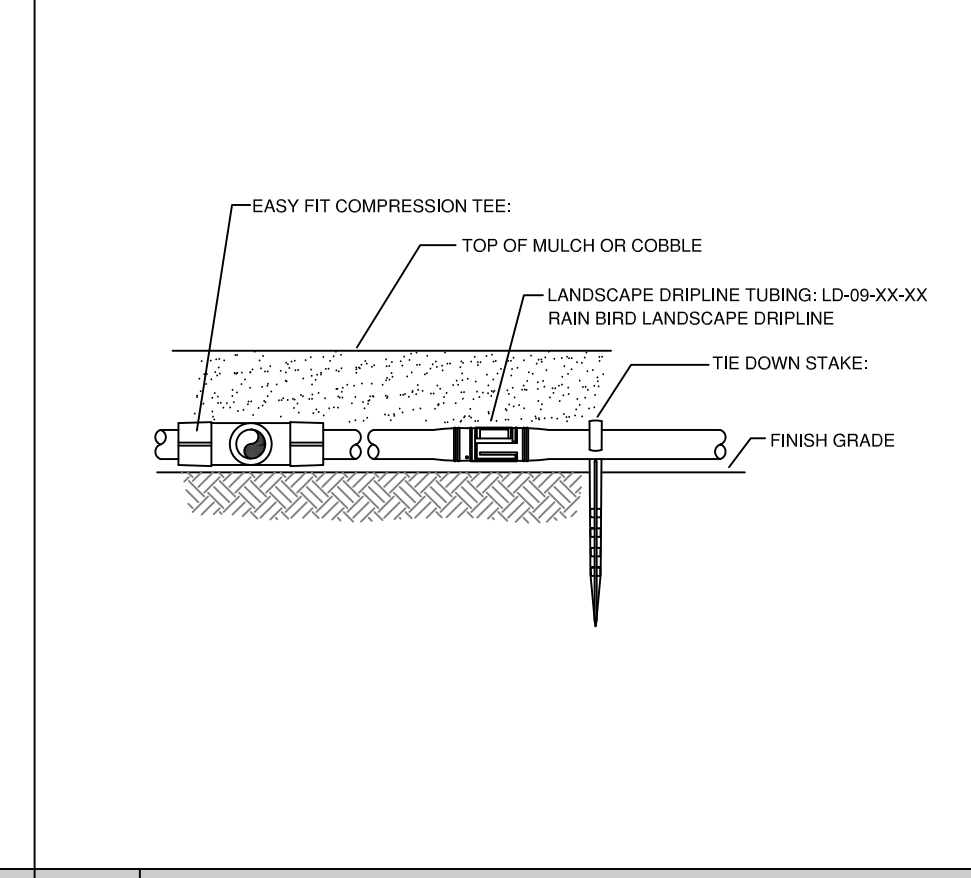
G MAINLINE ISOLATION VALVE
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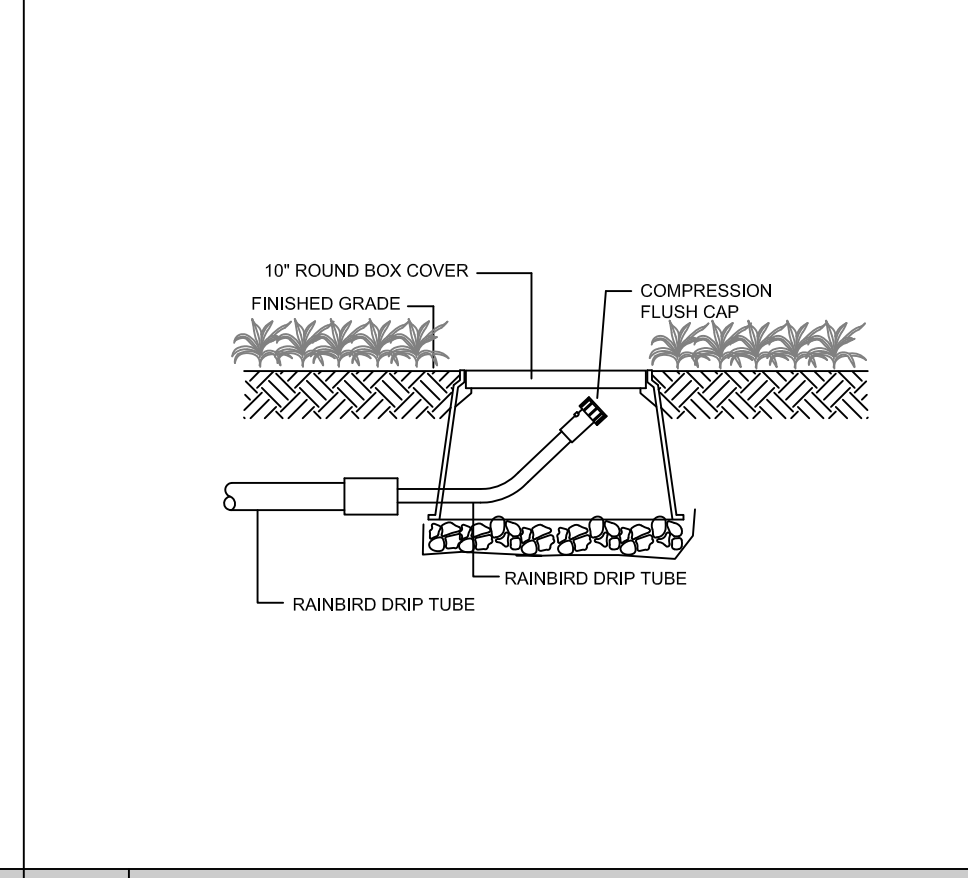
H RKLD-050 TUCOR LINE DECODER
NOT TO SCALE



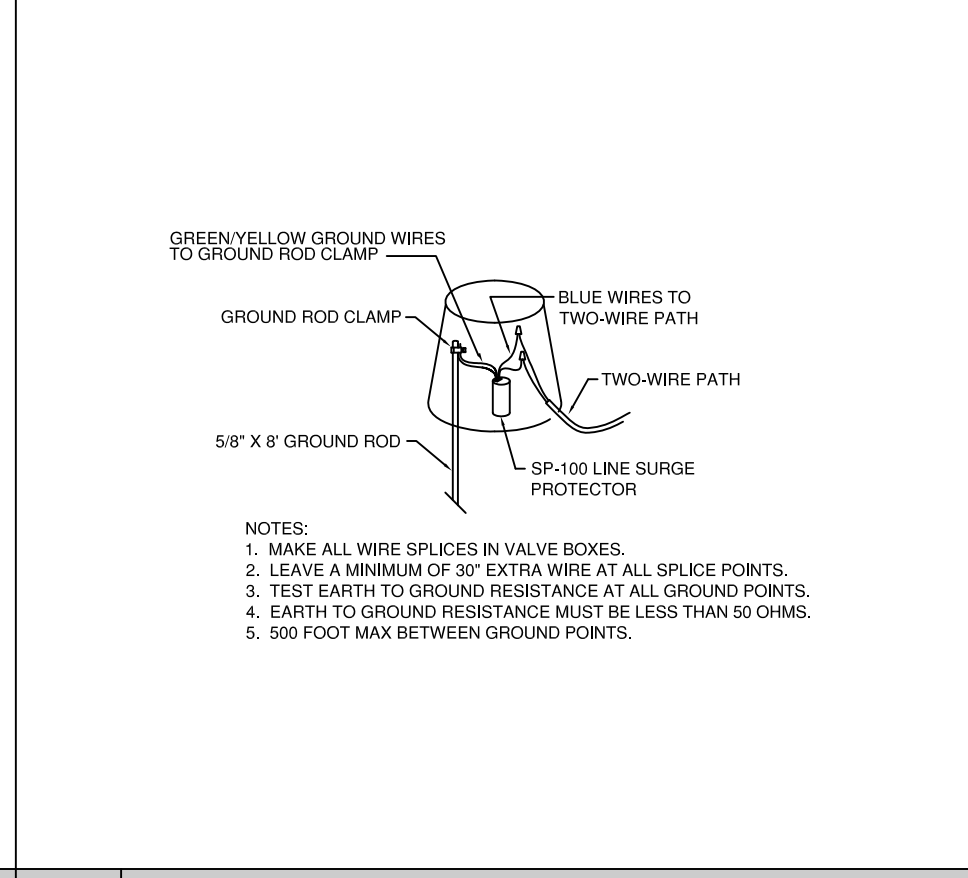
I SHRUB DRIP EMITTER INSTALLATION
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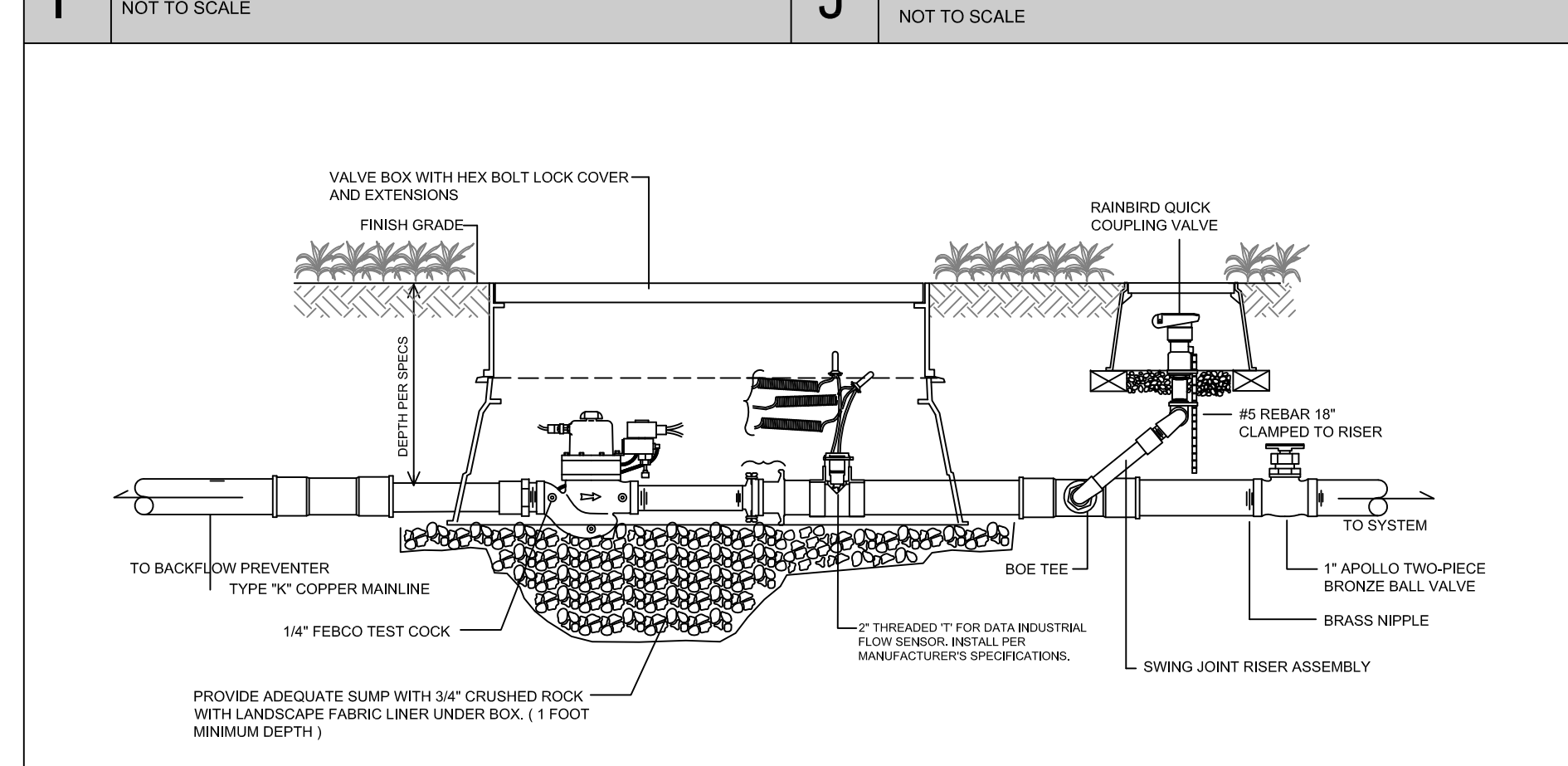
J TREE RING DRIPLINE ON GRADE
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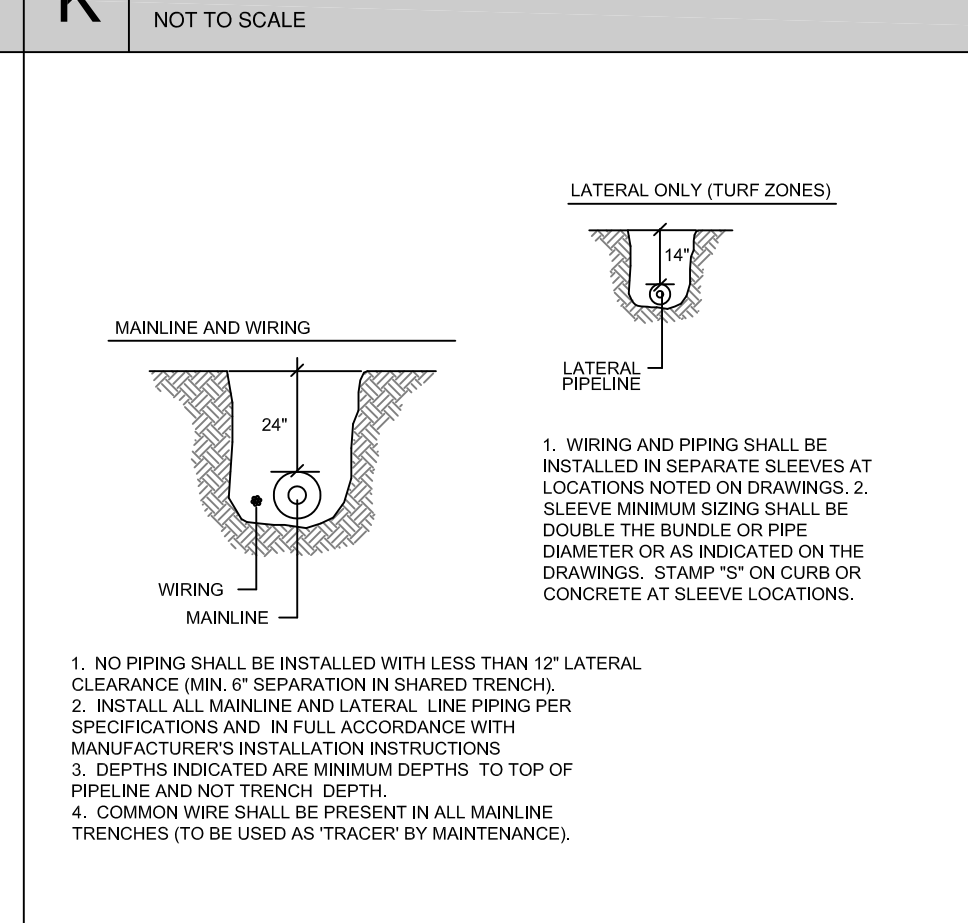
K DRIP FLUSHING END CAP DETAIL
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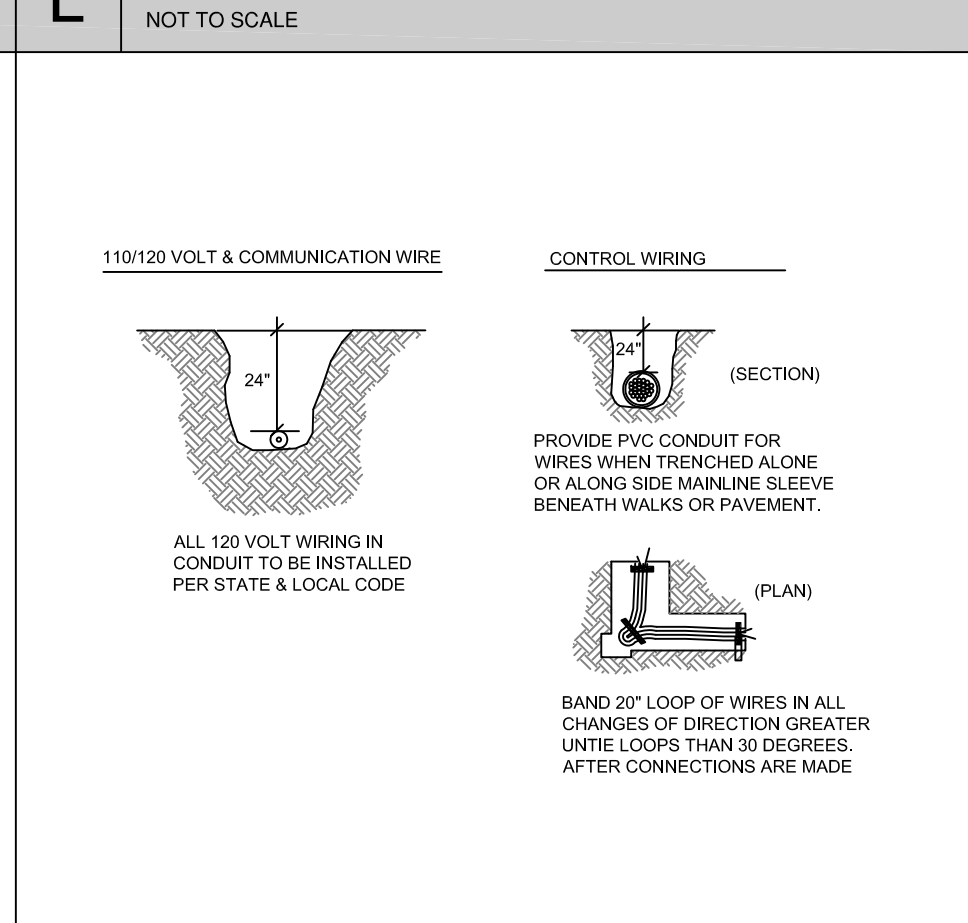
L SYSTEM GROUNDING DETAIL
NOT TO SCALE



M MASTER VALVE
NOT TO SCALE



N PVC PIPE TRENCHING DETAIL
NOT TO SCALE



O WIRE TRENCHING DETAIL
NOT TO SCALE

IRRIGATION SCHEDULE:
Equipment Schedule:

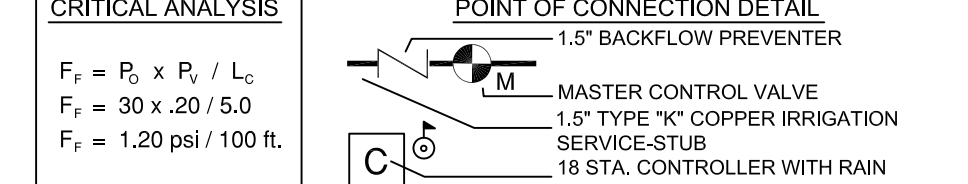
SYMBOL	SIZE	DESCRIPTION/REMARKS
C	—	18 STATION RAINBIRD ESP Series Auto Controller w/ Rain Sensor.
N	1.50"	FEBCO 825YA Reduced Pressure Zone backflow preventer. Installed per manufacturer's specifications.
M	1.50"	RAINBIRD GB Remote Electric Master Control and metering Valve.
OC	1.00"	RAINBIRD PEB Plastic Control Valve assembly (globe configuration)
OC	1.50"	RAINBIRD 44LRC Quick Coupling Valve w/RB Quick Coupling Valve Key.
MD	.75"	WATTS NO. WBV 2-piece Standard Port Brass Valve (manual drains)
MD	1.00"	RAINBIRD XGZ-075-PRF-BF Drip Control Zone Kit. Refer to watering schedule below for proper valve application per drip zone.
---	1.00"	CLASS 40 PVC MAINLINE (BOE, NSF RATED) (SOLVENT WELD ONLY)
---	1.50"	CLASS 40 PVC LATERAL PIPE (BOE, NSF RATED; SOLVENT WELD ONLY)
---	0.58"	RAINBIRD XT-700 DISTRIBUTION TUBING/1 GPH EMITTER
---	0.53"	RAINBIRD XFD-06-12 IN-LINE DRIP TUBING FOR TREE RINGS. DRIPLINE TO HAVE 0.61 GPH EMITTERS AT 12" SPACING.
---	1/4"	RAINBIRD 1/4" DISTRIBUTION TUBING USED FOR INDICATOR EMITTER ONLY WITH BURIED TREE RINGS PER DETAIL.
---	2.00-4.00"	CLASS 40 PVC SLEEVE UNDER PARKING AREA & DRIVEWAY PAVING. CLASS 200 PVC SLEEVE ALL OTHERS.

RAINBIRD 1804-SAM POP-UP SPRAY BODY	.92 GPM	1.23 GPM	1.85 GPM	3.70 GPM
RAINBIRD 5004-SAM-R 25R & 35R SERIES (@ 35PSI)	.88 GPM	1.21 GPM	1.73 GPM	3.33 GPM
	1.67 GPM	2.15 GPM	3.33 GPM	6.62 GPM

18 STATION CONTROLLER
VALVE SCHEDULE:

NO.	FLOW (GPM)	PREC. RATE (IN/HR)	ZONE	SIZE	*RUN TIME	ZONE TYPE
01	8.18	27	1	1.0"	55 MIN.	POP-UP SPRAY/SOD
02	20.24	55	2	1.0"	77 MIN.	ROTOR/SOD
03	22.33	57	3	1.0"	78 MIN.	ROTOR/SOD
04	30.60	68	4	1.5"	65 MIN.	POP-UP SPRAY/SOD
05	10.40	1.32	5	1.0"	28 MIN.	POP-UP SPRAY/SEED
06	36.64	29	6	1.5"	130 MIN.	ROTOR/SEED
07	28.48	19	7	1.5"	197 MIN.	ROTOR/SEED
08	22.33	19	8	1.5"	197 MIN.	ROTOR/SEED
09	26.64	28	9	1.5"	134 MIN.	ROTOR/SEED
10	28.48	19	10	1.5"	197 MIN.	ROTOR/SEED
11	18.32	36	11	1.0"	104 MIN.	ROTOR/SEED
12	14.99	28	12	1.0"	134 MIN.	ROTOR/SEED
13	10.41	65	13	1.0"	55 MIN.	ROTOR/SEED
14	---	---	14	1.0"	60 MIN.	DRIP EMITTER/PLANTS
15	---	---	15	1.0"	60 MIN.	DRIP EMITTER/PLANTS
16	---	---	16	1.0"	60 MIN.	DRIP EMITTER/PLANTS
17	---	---	17	1.0"	60 MIN.	DRIP EMITTER/PLANTS
18	---	---	18	1.0"	60 MIN.	DRIP EMITTER/PLANTS
19	---	---	19	1.0"	60 MIN.	DRIP EMITTER/PLANTS

*TO APPLY 1.25" WATER PER WEEK FOR SOD
*TO APPLY 1.25" WATER PER WEEK FOR SEED



Notes:

- Design pressure calculated at 35-40 PSI.
- Drawing is diagrammatic; precise placement of equipment may not be possible as indicated. Field changes which do not alter design intent may be performed by installer.
- Quantities which can be determined graphically from the drawings prevail over scheduled quantities.
- Unstaked lateral pipelines are 1" PVC.
- Shrub beds installed with Landscape Dripline shall be per manufacturer's specifications. Contractor to include all necessary components as required by the manufacturer for dripline installation.
- All shrubs to be irrigated using either poly-flex pipe with emitters or landscape dripline. There shall be no spaghetti tubing used to water shrubs.
- Precipitation Rate is the average precipitation for this zone expressed in inches per hour (1.5"/week sod zones, 1.25"/week seed zones) Run-time indicated per zone is the total time required to apply 1.5" or 1.25" per week.
- Run Time (i.e. R.T.) for drip zones is the operating time per cycle each week for a seven (7) day watering schedule.
- Seasonal application rates are as follows: Spring 70%, Summer 100%, Fall 60%.
- All irrigation zone drip lines to be pinned to soil surface prior to mulching.
- All valve box covers and round box lids to be stamped/branded with the appropriate function (i.e. OC for Quick Coupler) or with the appropriate controller and zone number as programmed (i.e. 01).

APPROVAL



William Guman & Associates, L.L.C.
Landscape Architecture
731 North Weber Street, Suite 10
Colorado Springs, CO 80903
Email: info@guman.net
Tel: 719.539.9700

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ONLY DRAWINGS WHICH BEAR THE OFFICIAL STAMP OF THE LICENSED LANDSCAPE ARCHITECT IN THE STATE OF COLORADO ARE VALID FOR CONSTRUCTION PURPOSES.

Candlewood Suites
Pueblo, CO
LANDSCAPE DEVELOPMENT PLAN

DATE: 09/26/16
DRAWN: WFG
CHECKED: MST

WILLIAM FREDERICK GUMAN
LA-167
1/01/2009
Original Date of License
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

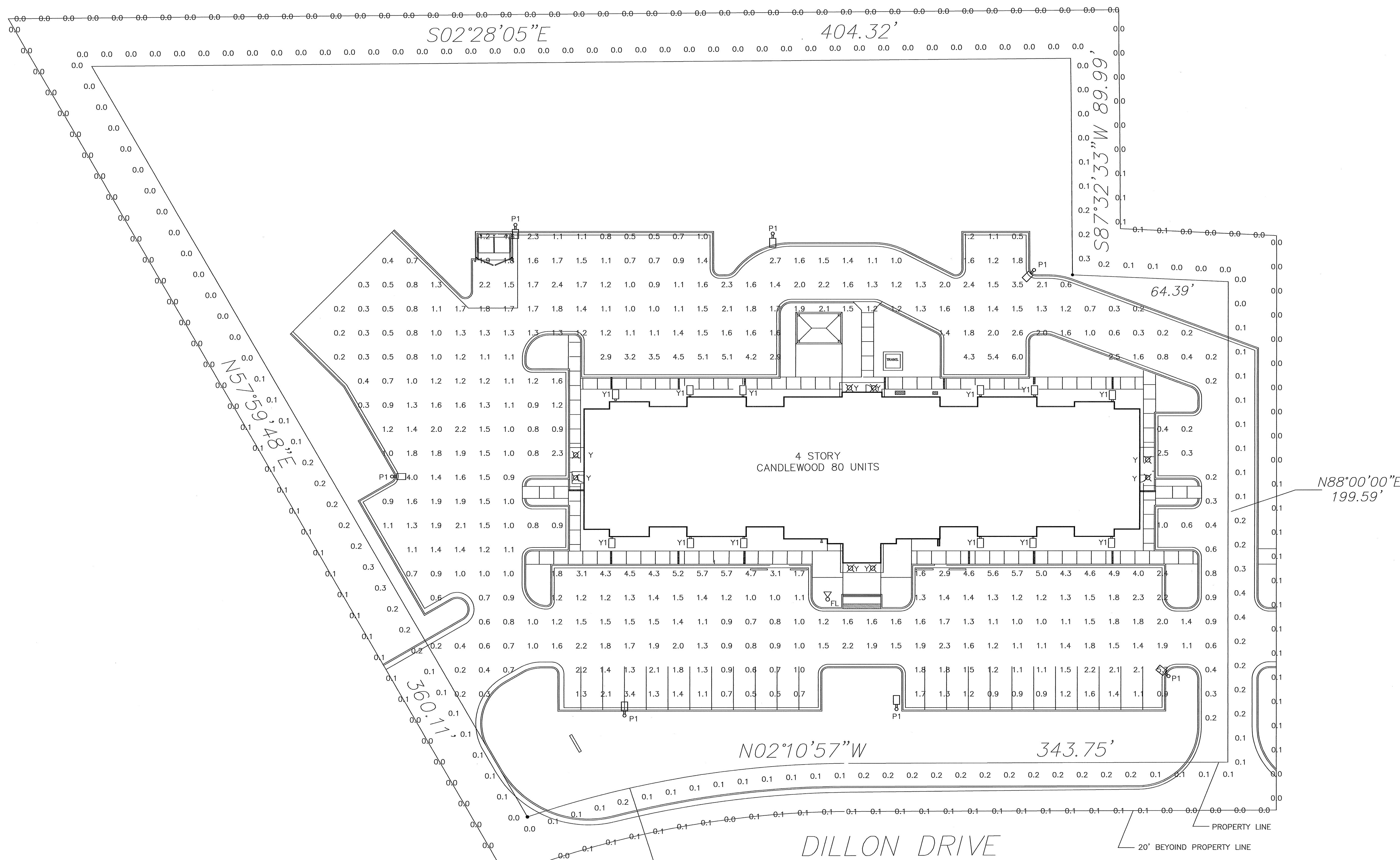
REVISIONS:

DATE:	BY:	COMMENTS:
09/20/16	WFG	Add pipe cutters
10/27/16	EM, WFG	Site amendments added

IRRIGATION DEVELOPMENT DETAILS

SHEET NO.

IR-2
4 OF 6 SHEETS



PAVED SURFACE READINGS

Average	1.5
Maximum	6.0
Minimum	0.1
Avg:Min	15.02
Max:Min	60.00

PROPERTY LINE READINGS

Average	0.1
Maximum	0.4
Minimum	0.0
Avg:Min	N/A
Max:Min	N/A

20' FROM PROPERTY LINE READINGS

Average	0.0
Maximum	0.1
Minimum	0.0
Avg:Min	N/A
Max:Min	N/A

$R=415.00'$
 $D=18^{\circ}39'03''$
 $L=135.09'$

PHOTOMETRIC PLAN
SCALE: 1" = 10'-0"

** - SPECIFY COLOR

FIXTURE TYPE:	CONFIG	SYMBOL	FIXTURE QUANTITY	CONFIG	QUANTITY	FITTING TOP FITTERS	QUANTITY	EPA	MOUNTING HEIGHT	LLF	WATTS/LUMINAIRE	WATTS	POLE TYPE:	QUANTITY	WIND LOAD	ALLOWED SPA
SECURITY LIGHTING VP-S-4BNB-110-5K-T4-UNV-RA-*	P1	☐	7	SGL	7	TTFVIPER	7	0.67	24'	0.87	110	770	SSP-5722-**-TT (5')	7	90mph	11.2
HUBBELL OUTDOOR LIGHTING LNC2-18LU-4K-3-1	Y1	☐	12						10'	0.87	29	232				
PRESCOLITE "LITEBOX" LB6LED10L35K9 WH / DBXL	Y	☒	8						10'	0.87	12	96				
BEACON "CADET" CD1/24NB-5S/5K/2X2/UNV/PA/GYS*/FV	FL	☐	1						GRADE	0.87	55	55	MATCH FLAGPOLE	1		

BUSINESS HOURS ARE 24/7/365. MIDNIGHT TO 6 AM REGULATION DOES NOT APPLY. LUMINAIRE TYPE FL IS UPLIGHT ONLY TO ILLUMINATE THE FLAG. IT DOES NOT CONTRIBUTE TO AREA ILLUMINATION.

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CANDLEWOOD SUITES
Pueblo, CO

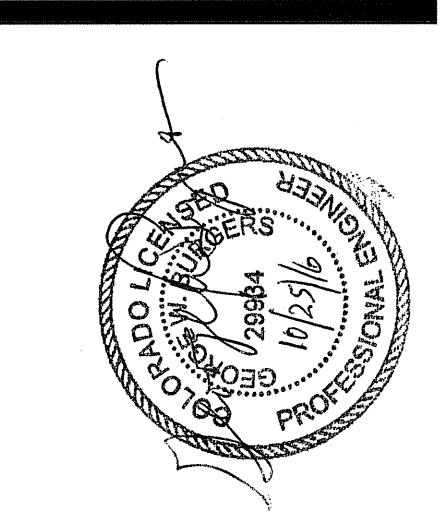
PROJ. MGR.
PRO GROUP INC.
1300 W. 10TH AVENUE, SUITE 100
DENVER, CO 80202

208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

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ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

GEORGE W. BURGERS, P.E.
The ELECTRICAL ENGINEER
449 W. LOOKOUT DR. PUEBLO WEST, CO 81007
PH: 719-647-1987



Photometric Plan
 SHEET NAME:

PROJECT NO.
W16006

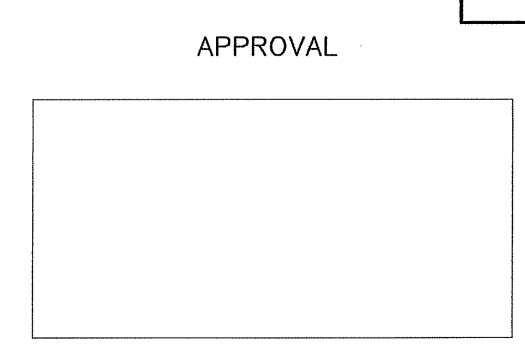
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jb

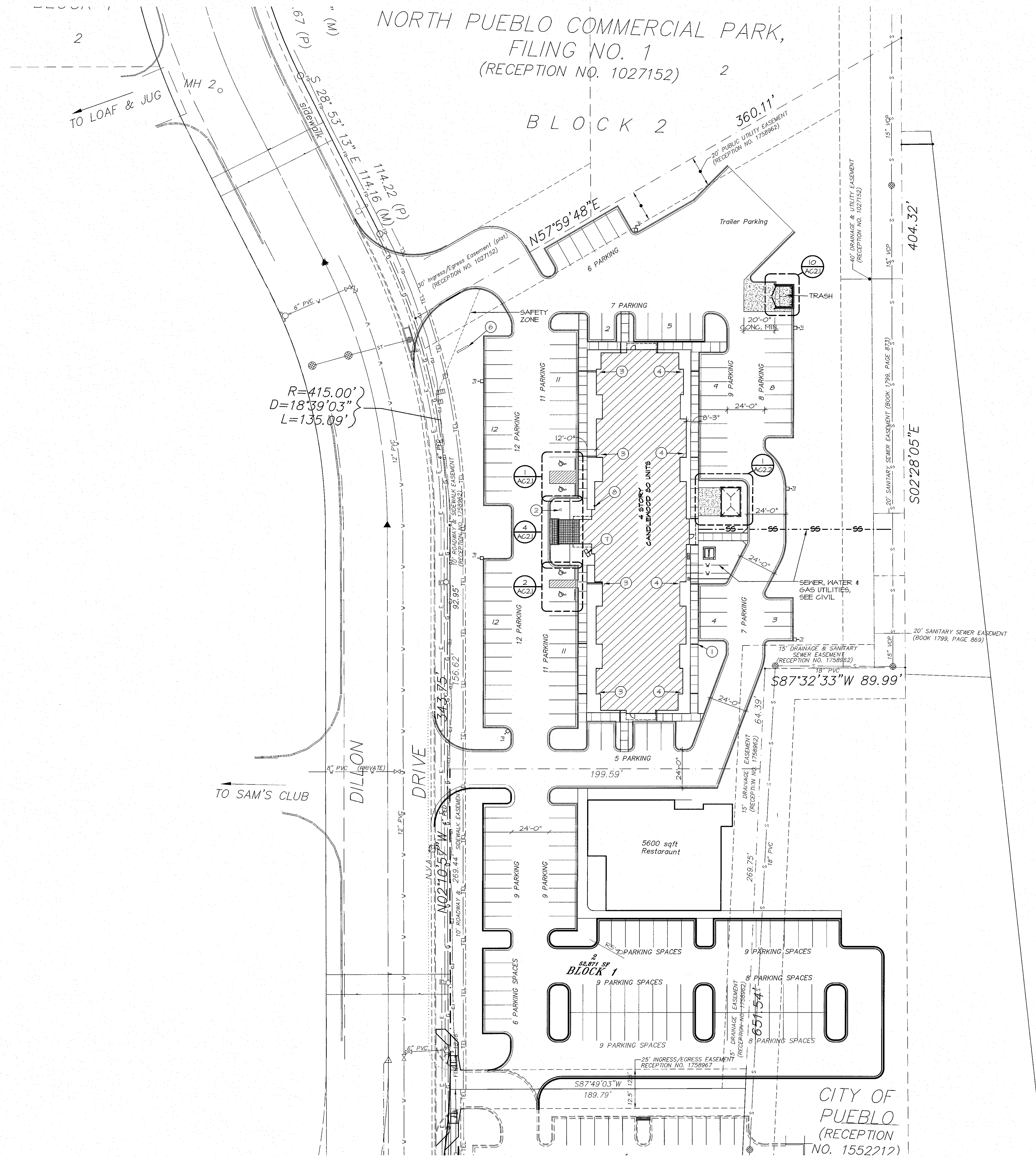
CHECKED BY:
GWB

DATE:
10.21.2016

SHEET:

PH1.1





- KEYNOTES:**
1. DRAINAGE TRENCH FOR LANDSCAPE AREA AT SIDENALK
 2. FLAG POLE 20'-0" HIGH
 3. OVERFLOW (PROVIDE SPLASH BLOCK)
 4. ROOF DRAIN CONNECT TO STORM, SEE CIVIL
 5. NOT USED
 6. MONUMENT SIGNAGE LOCATION
 7. BIKE RACK LOCATION
 8. FIRE CONNECTION (SIAMESE)

PARKING DATA:

REQUIRED BY FRANCHISE:	
HOTEL: 11 STALLS PER GUEST ROOM	
80 ROOMS X 11	= 88 SPACES
TOTAL REQUIRED	= 88 SPACES

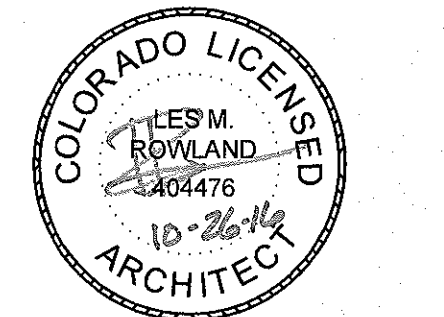
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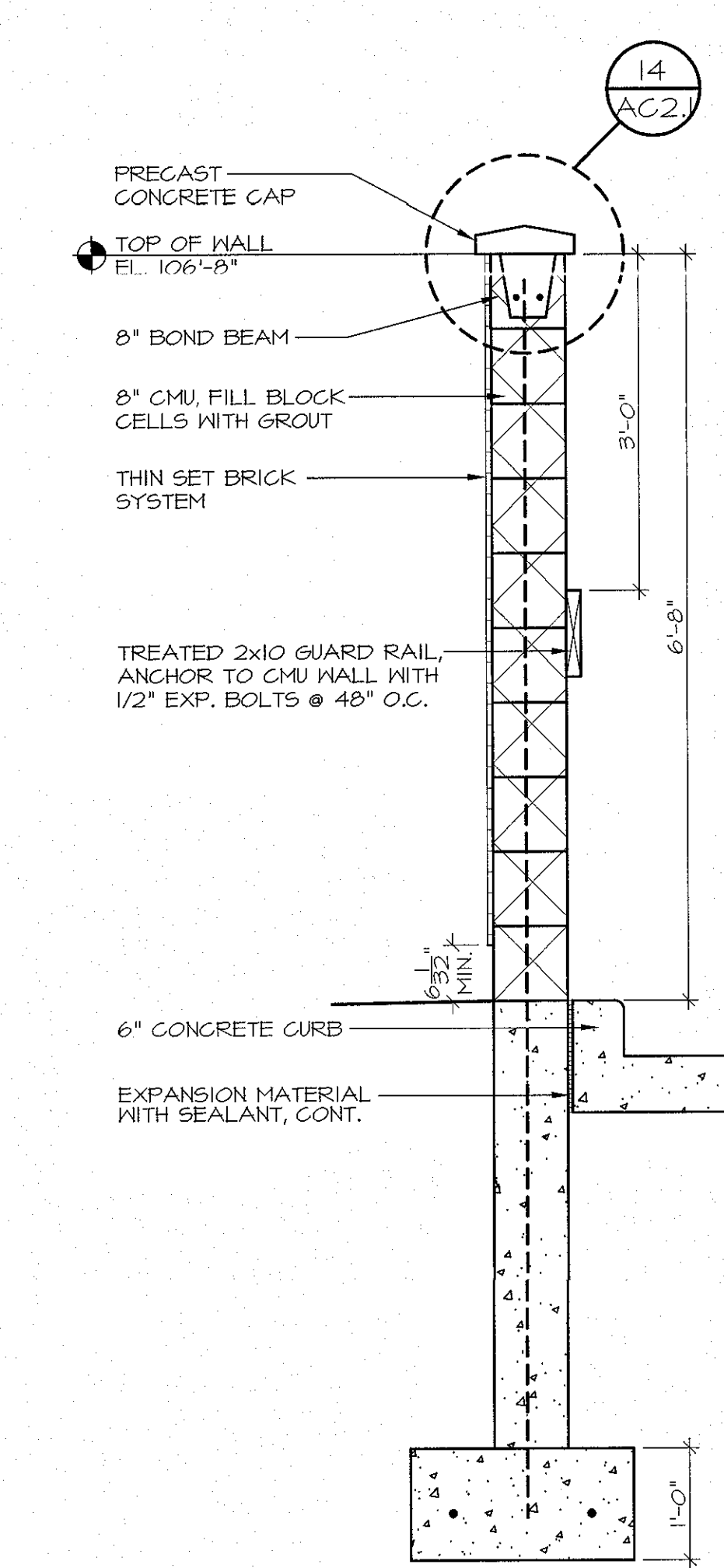
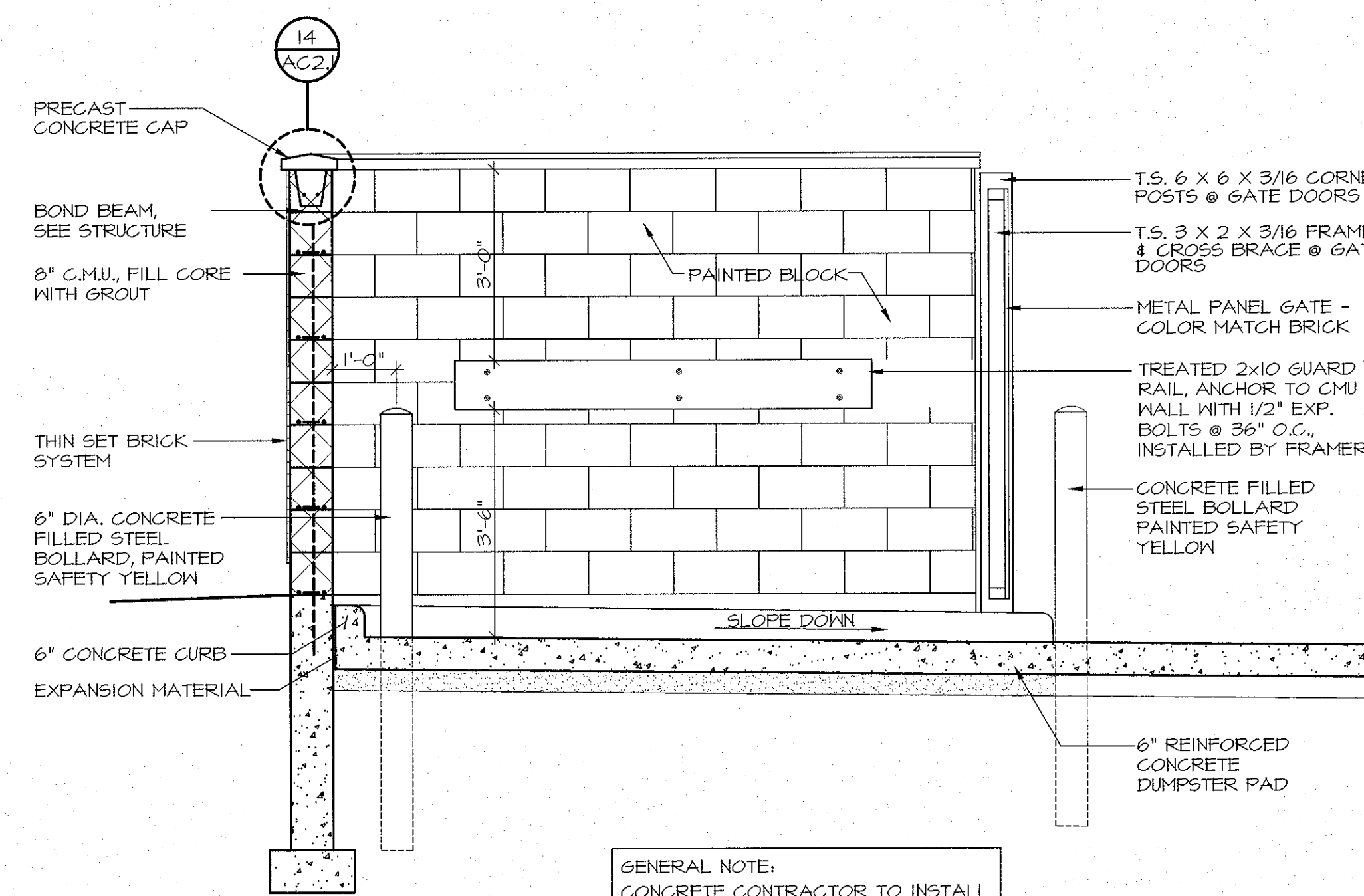
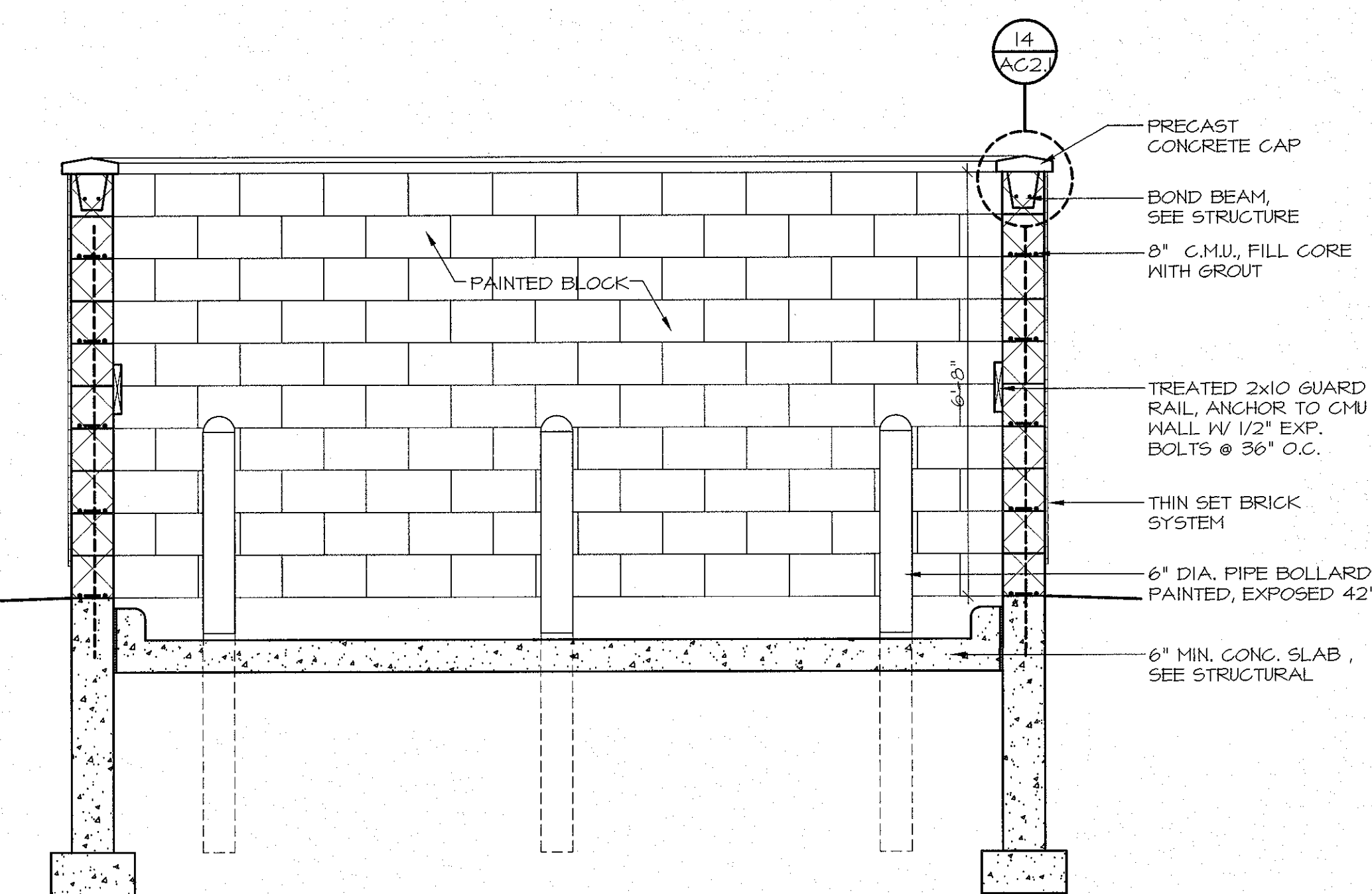
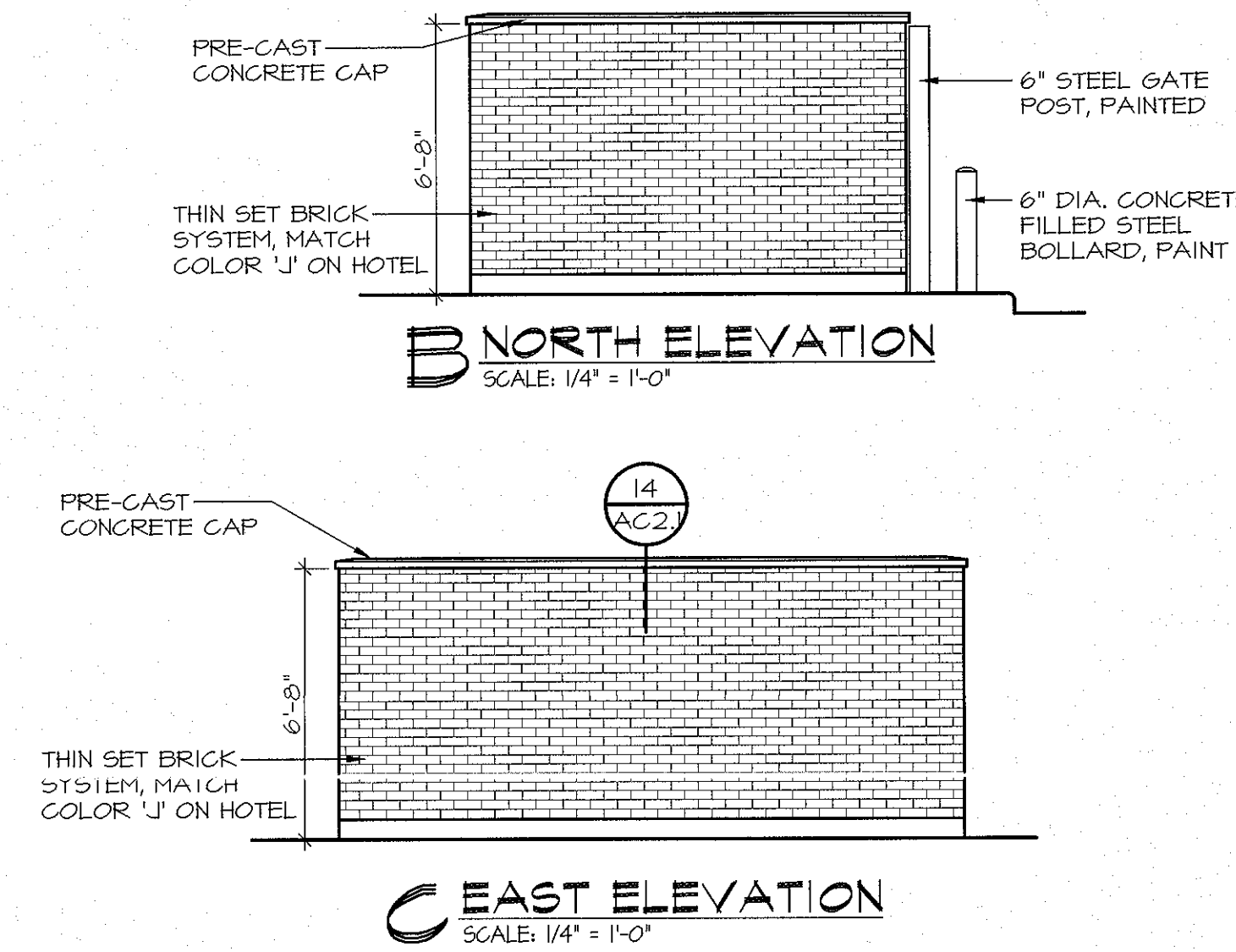
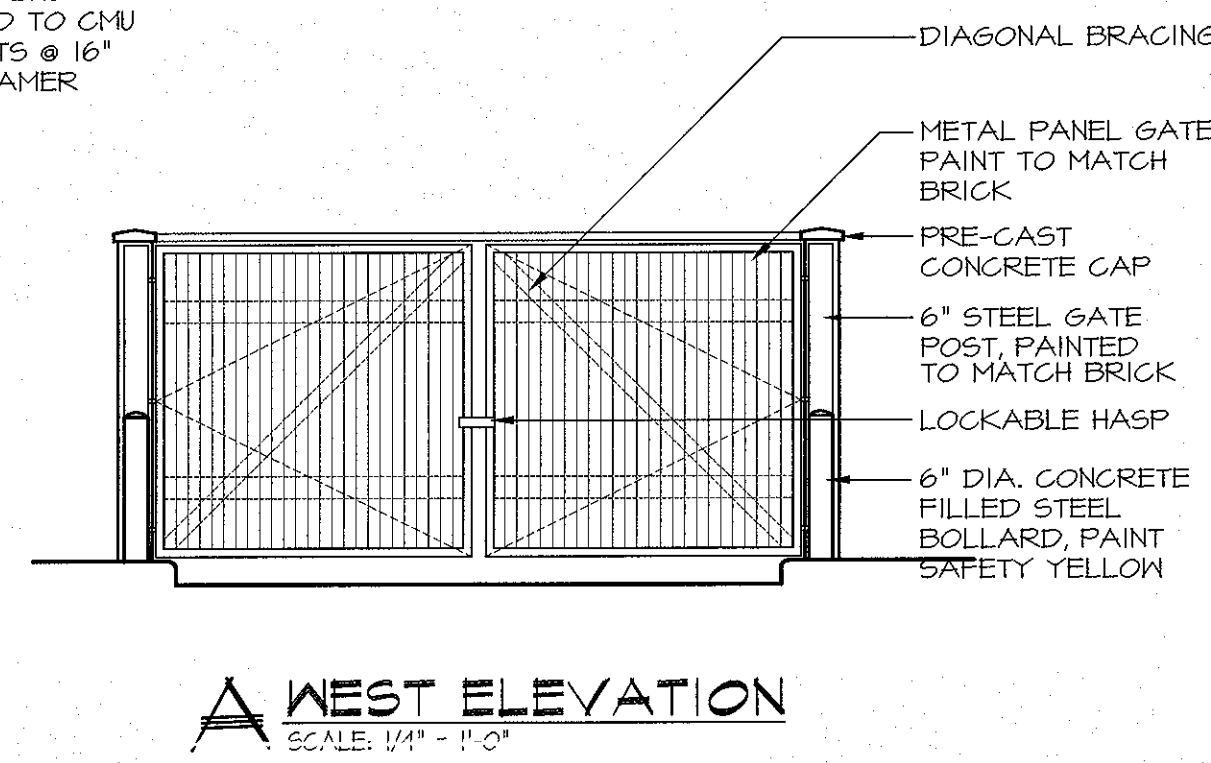
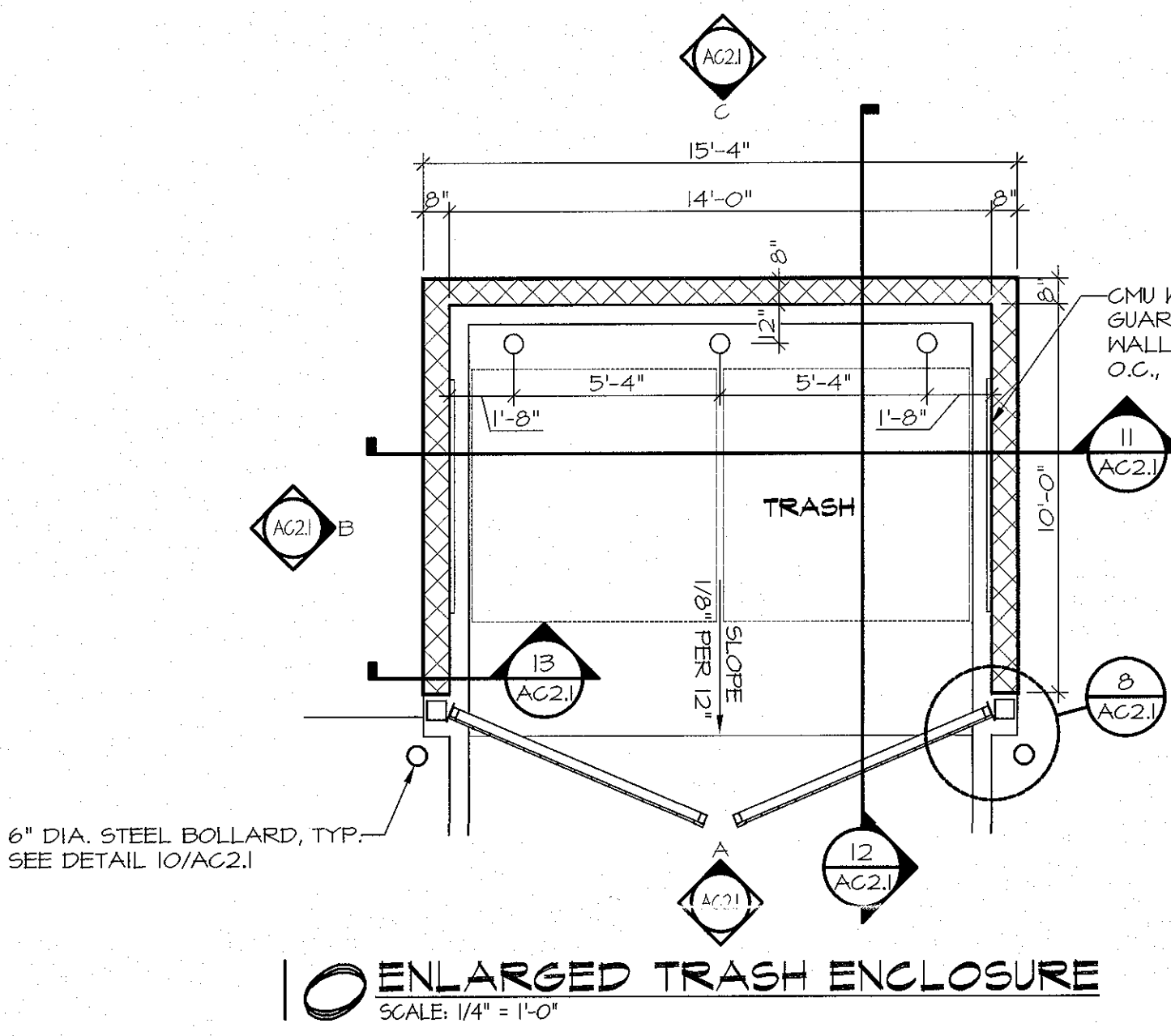
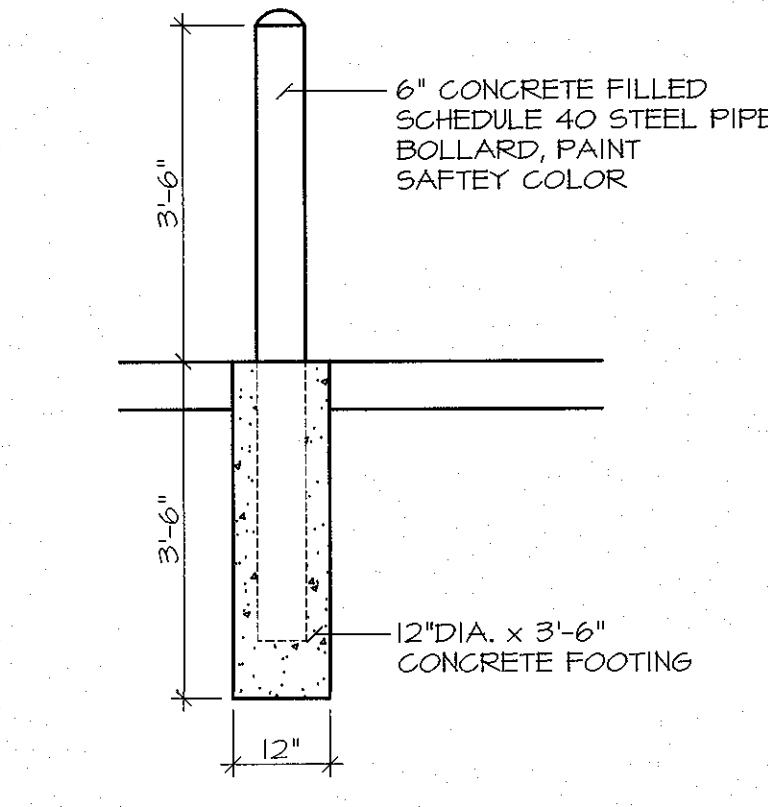
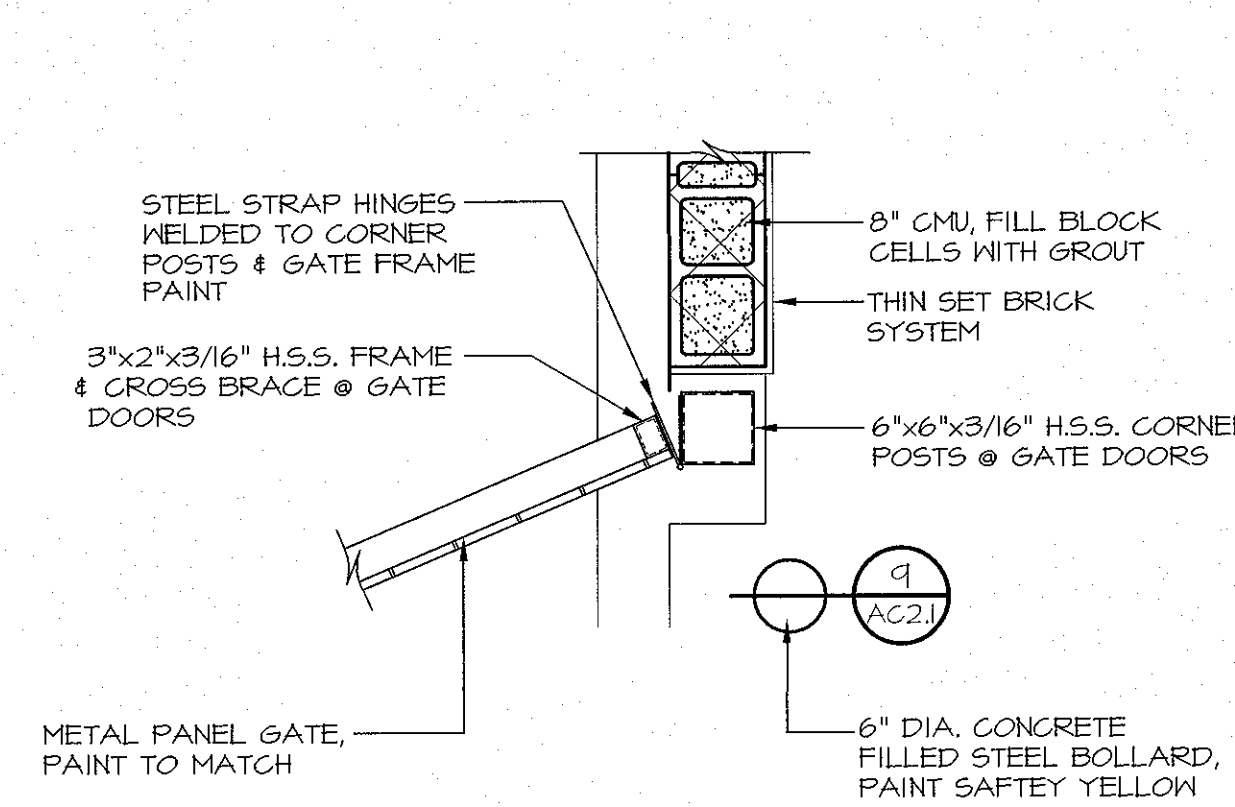
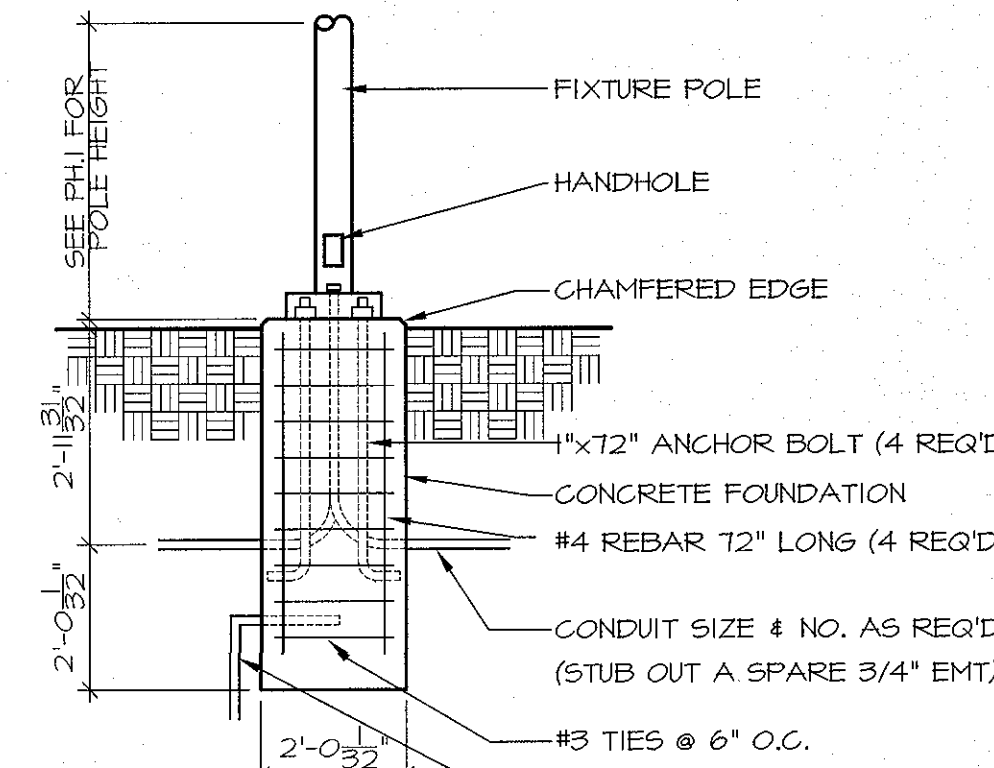
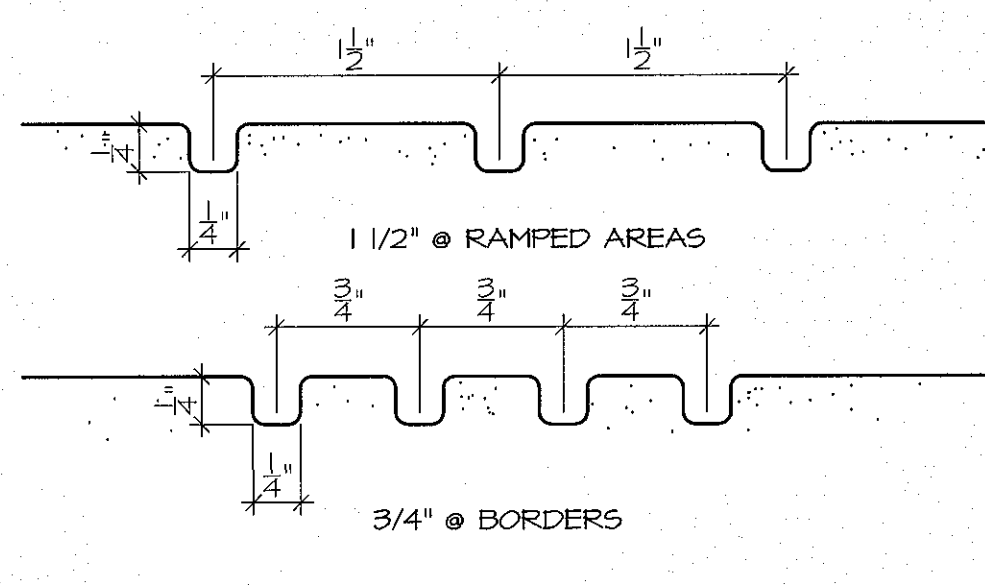
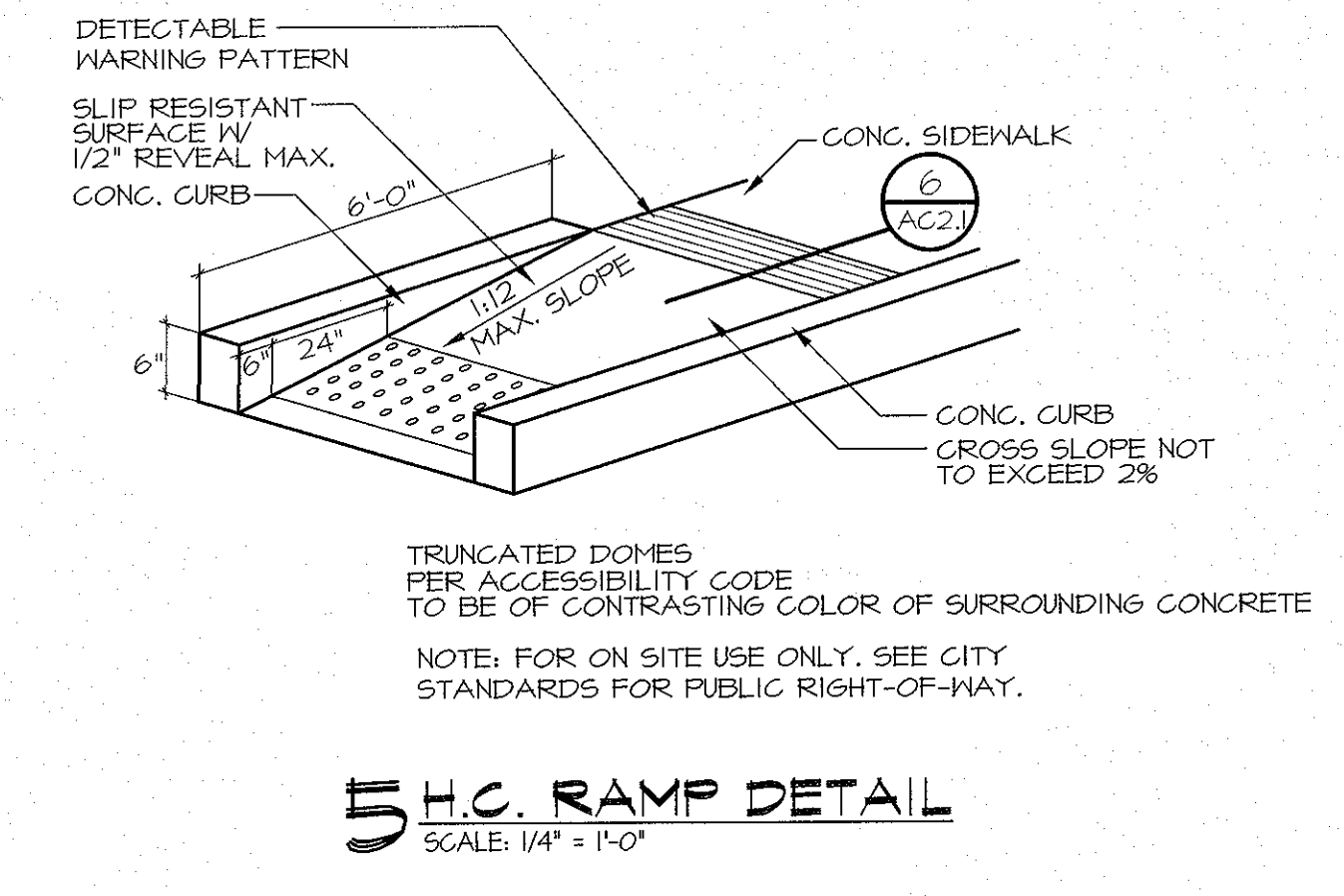
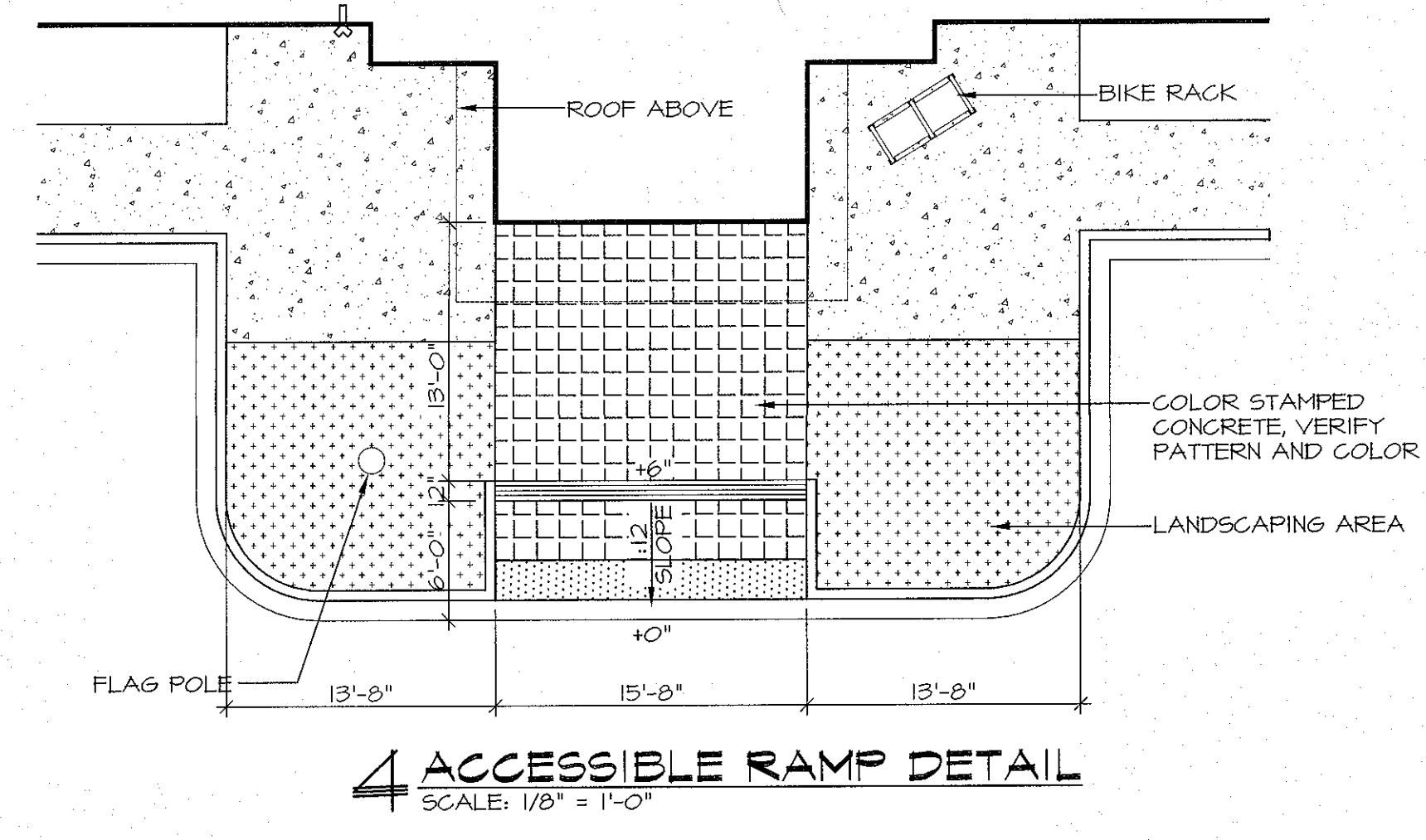
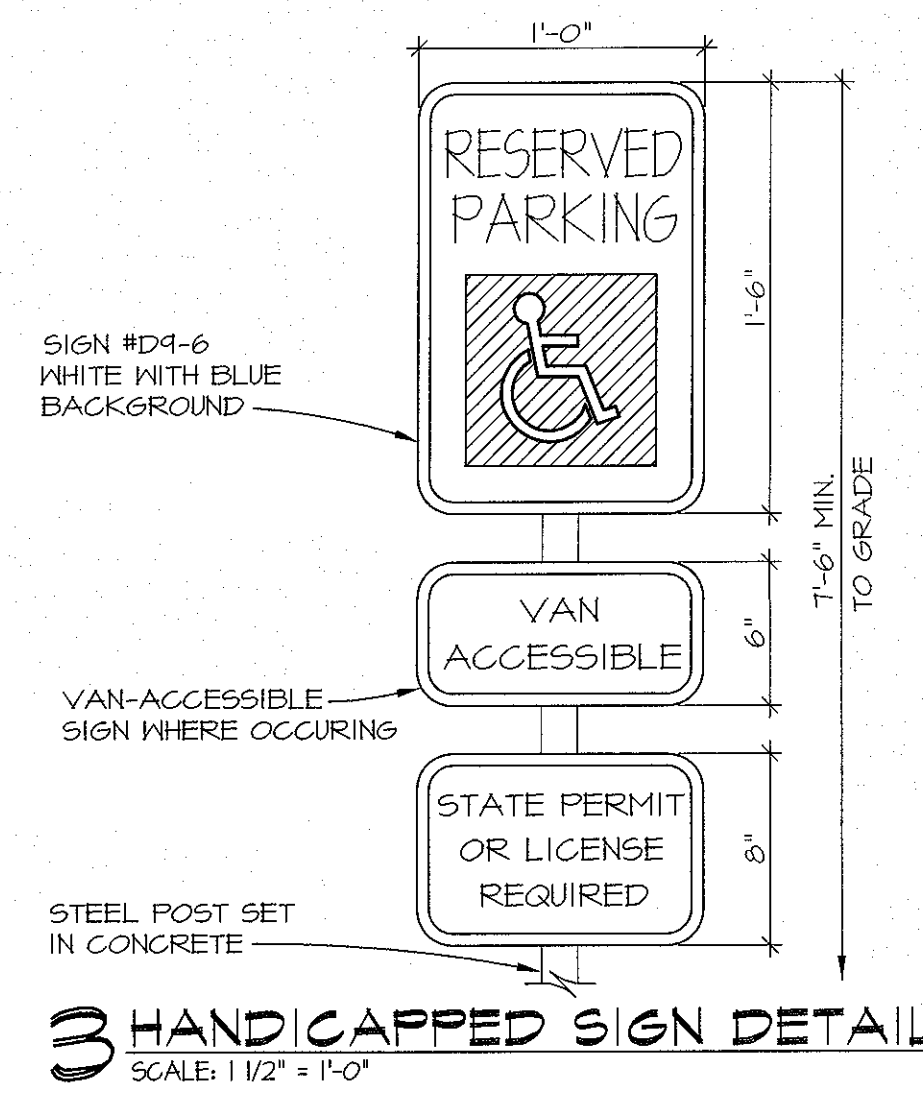
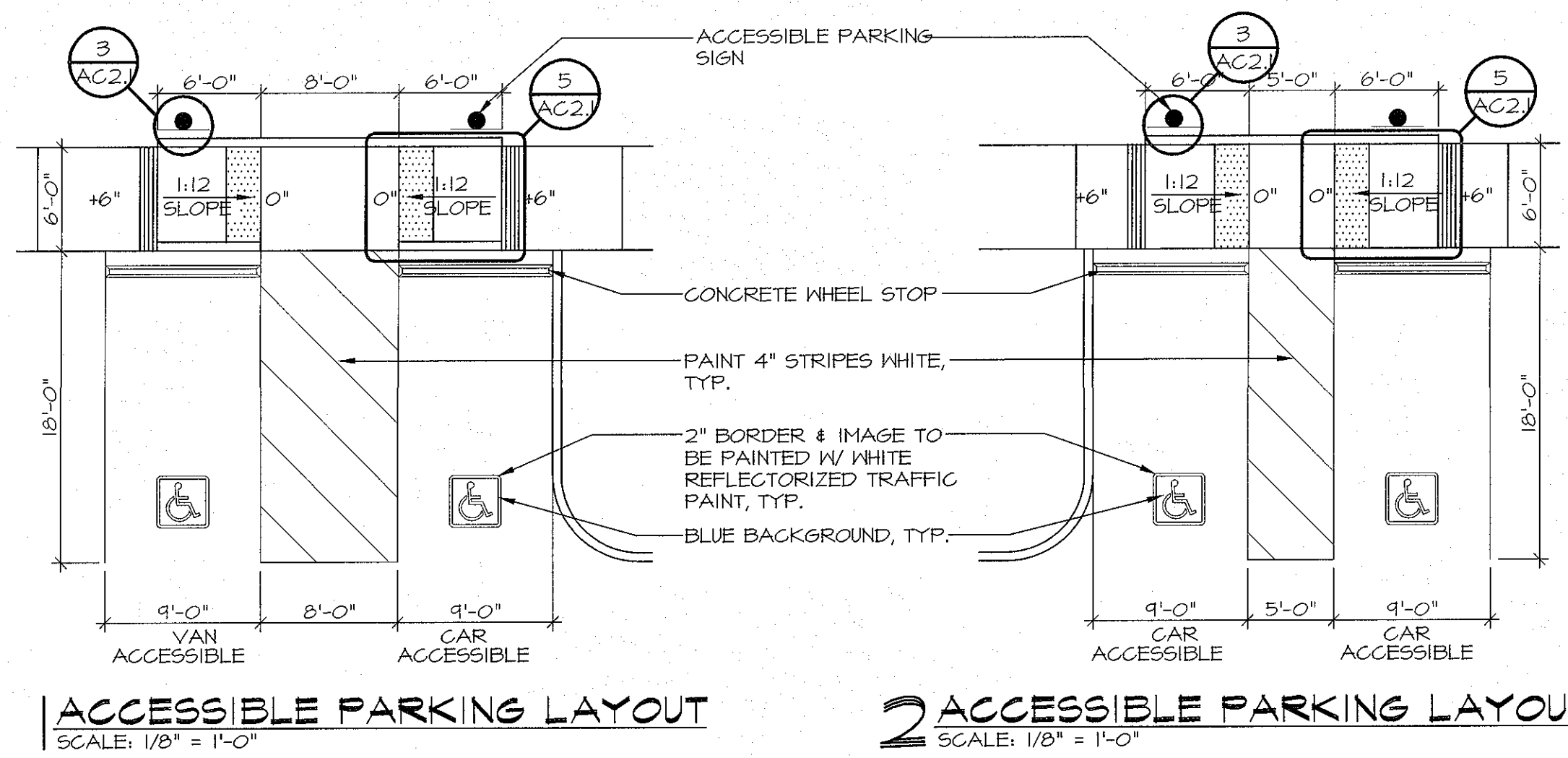
STANDARD STALLS	= 84 SPACES
ACCESSIBLE STALLS	= 4 SPACES
TOTAL PROVIDED	= 88 SPACES

CITY PARKING REQUIREMENTS:

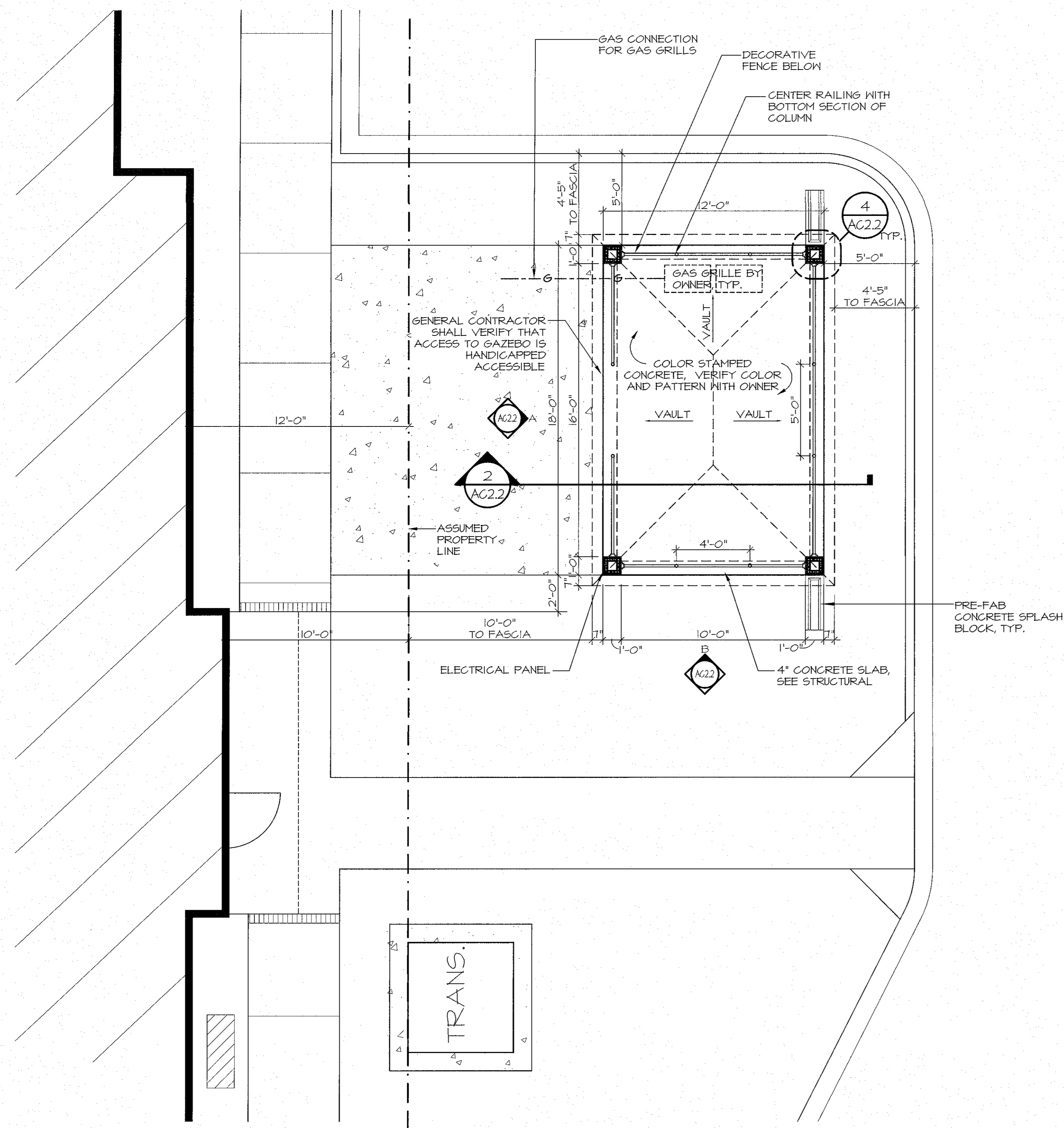
1 PER ROOM	= 80 SPACES
1 PER 2 EMPLOYEE	= 2 SPACES
8 EMPLOYEES MAX PER SHIFT	= 4 SPACES
TOTAL REQUIRED	= 84 SPACES

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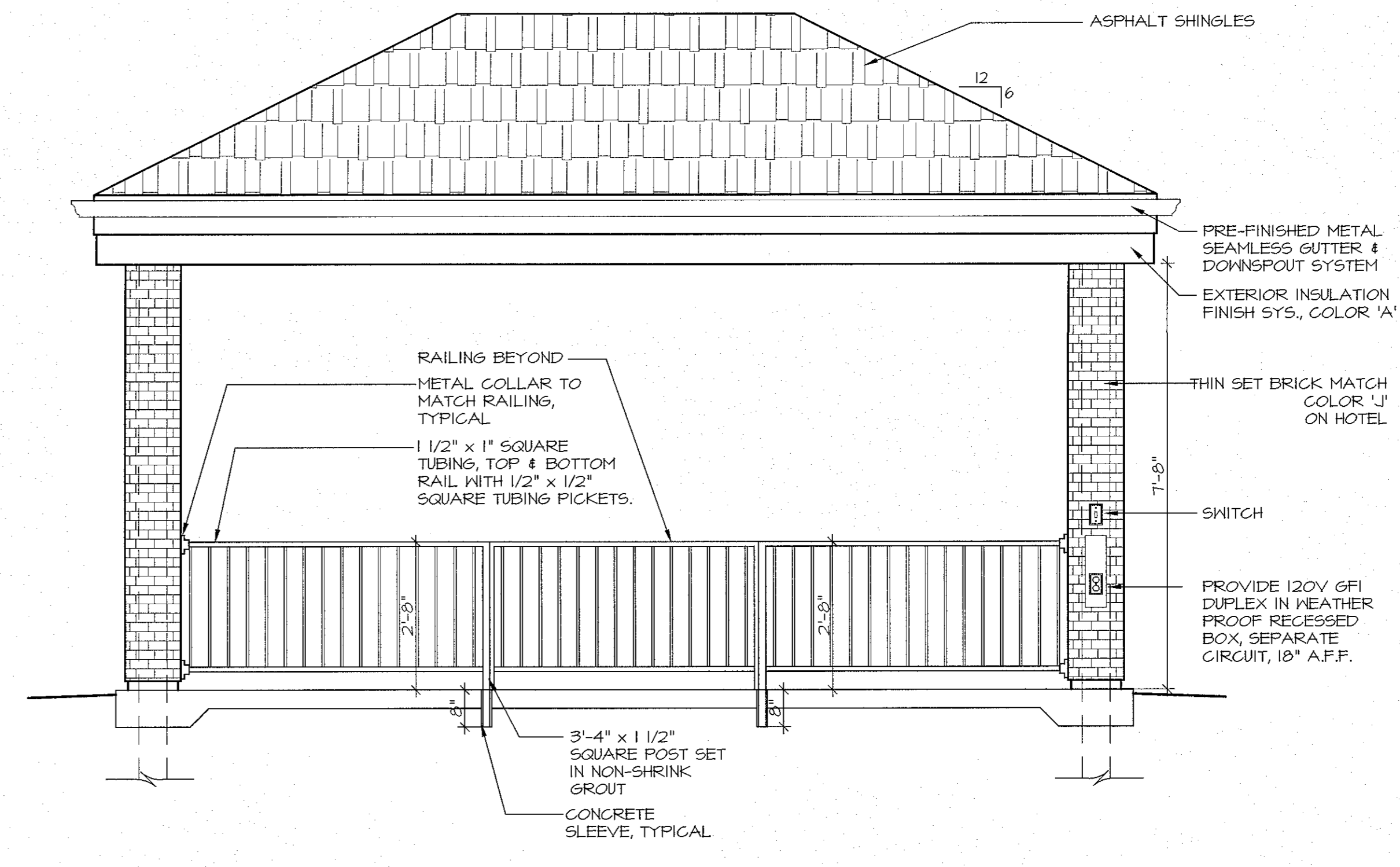




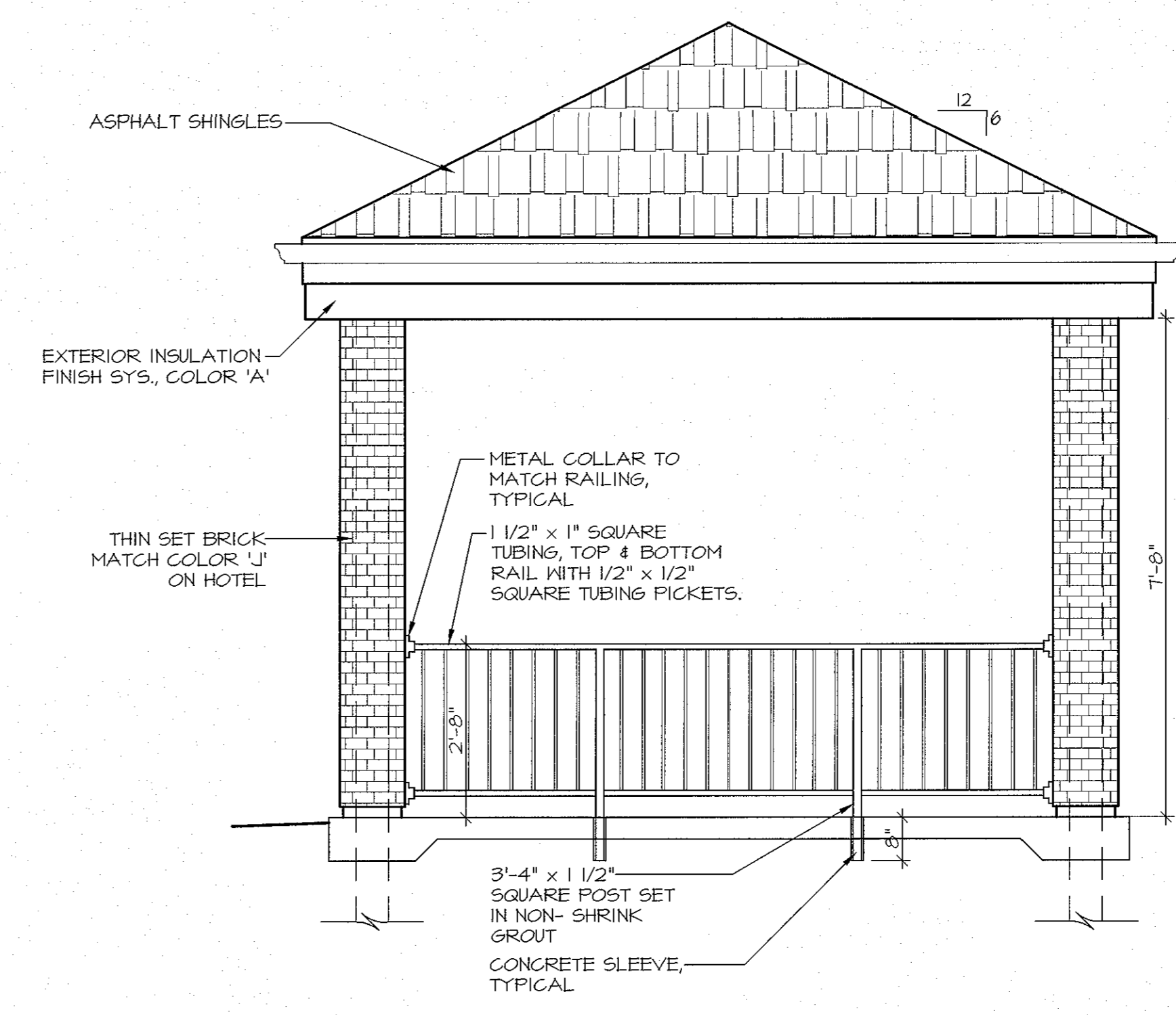
GENERAL NOTE:
CONCRETE CONTRACTOR TO INSTALL ALL STEEL GATE POSTS, PAINTER TO PAINT POSTS



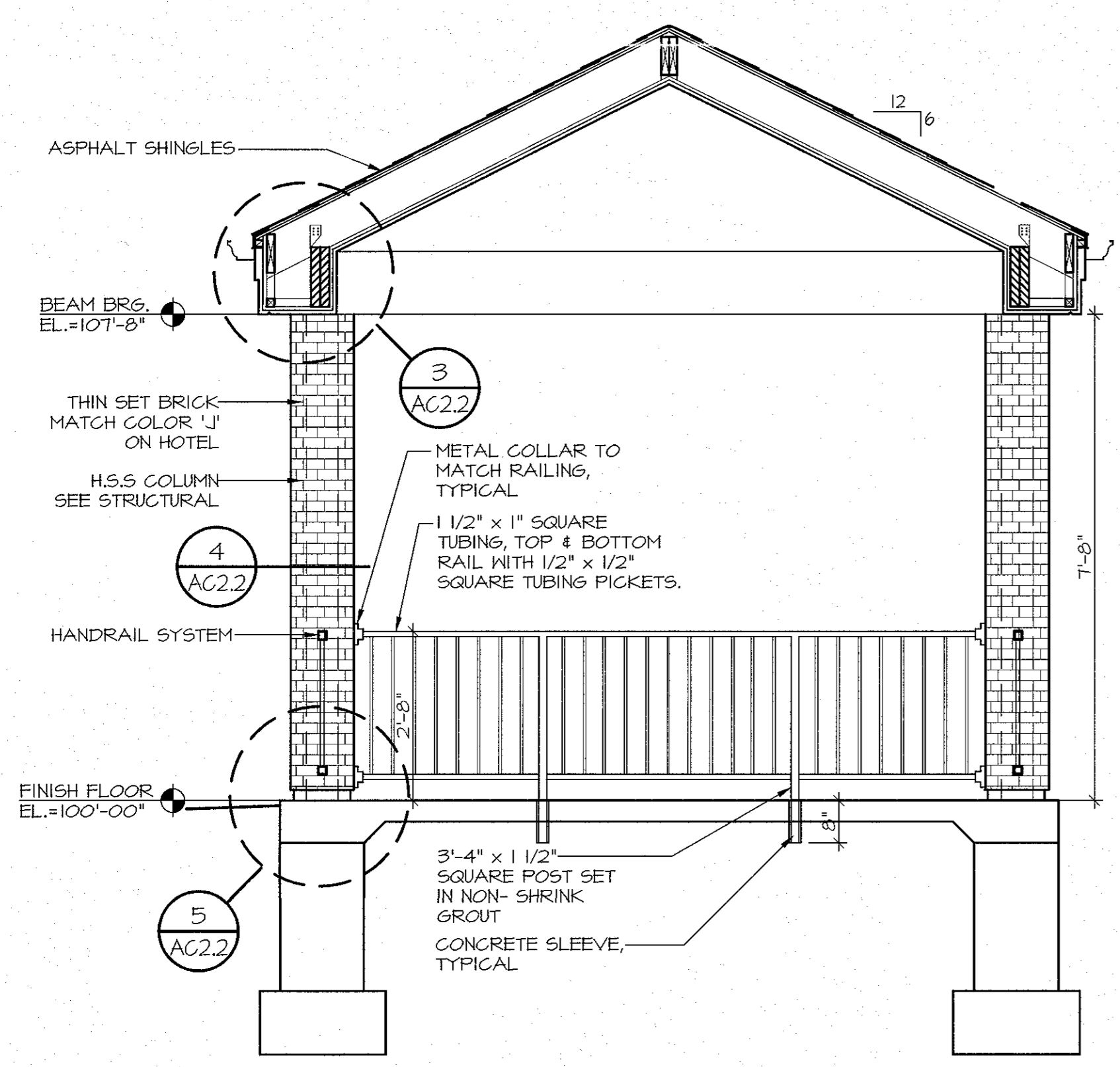
GAZEBO PLAN
SCALE: 1/4" = 1'-0"



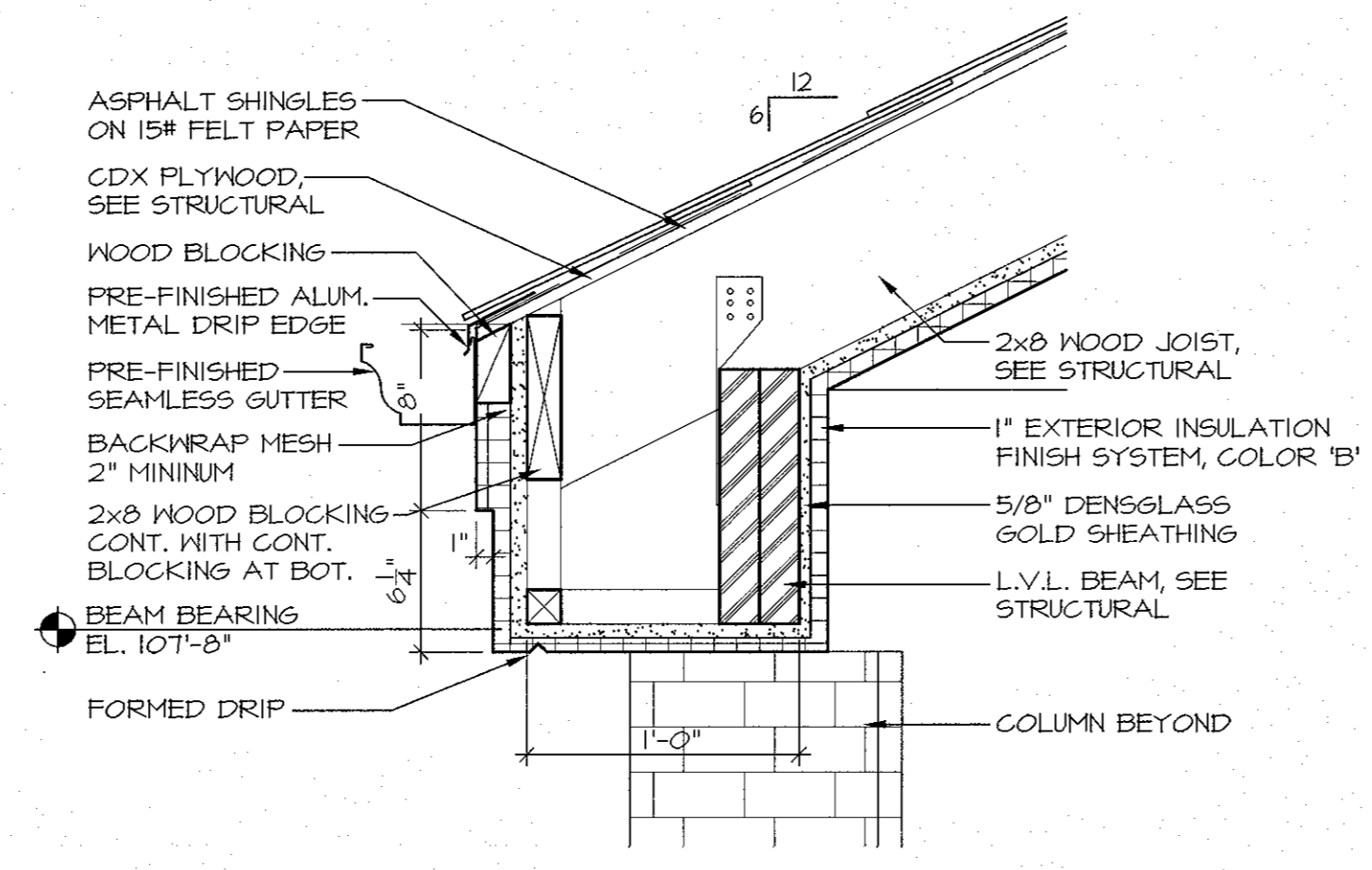
SEE SHEET A4.1 FOR E.I.F.S. COLORS
A GAZEBO ELEVATION
SCALE: 1/2" = 1'-0"



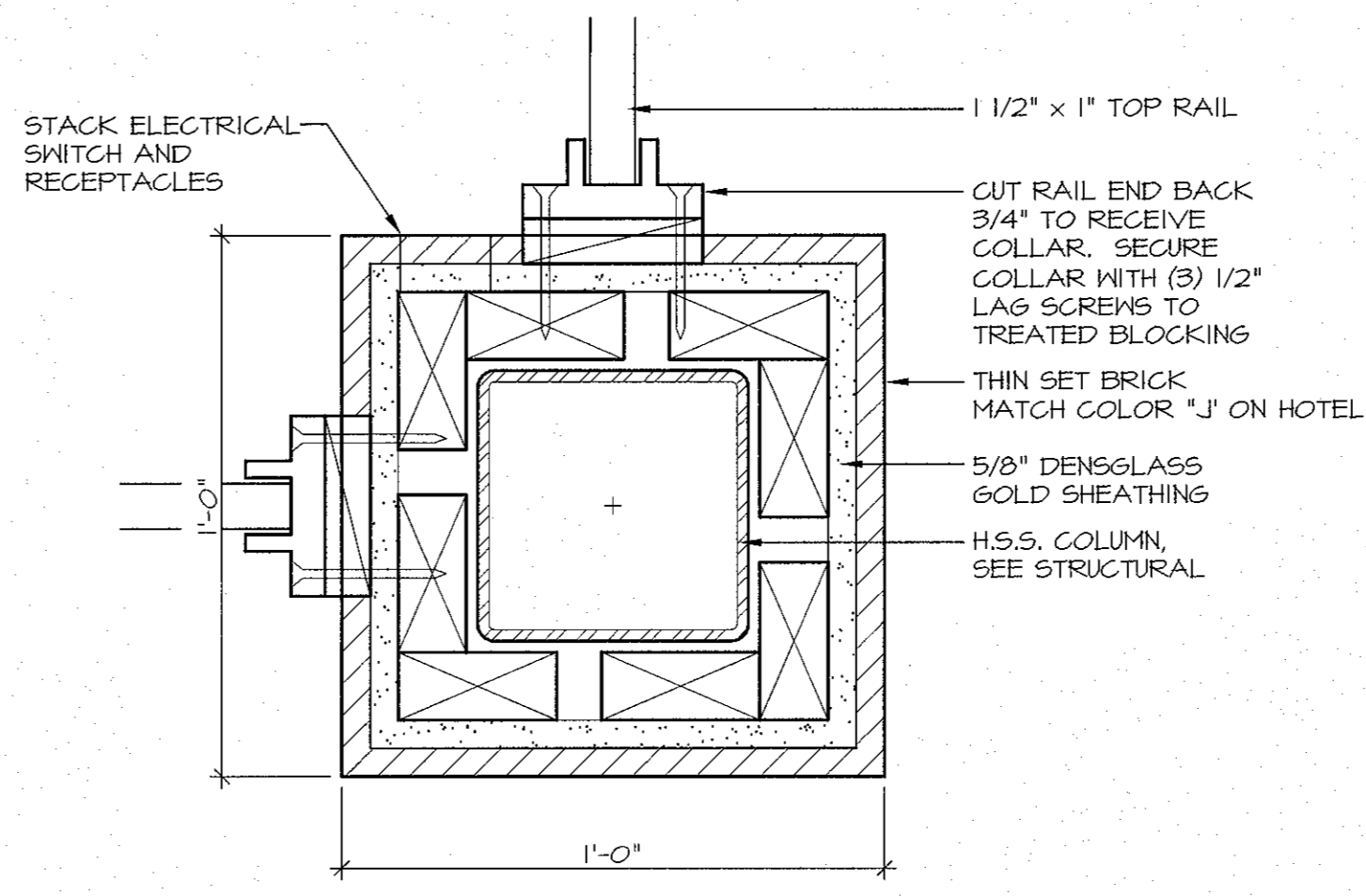
SEE SHEET A4.1 FOR E.I.F.S. COLORS
B GAZEBO ELEVATION
SCALE: 1/2" = 1'-0"



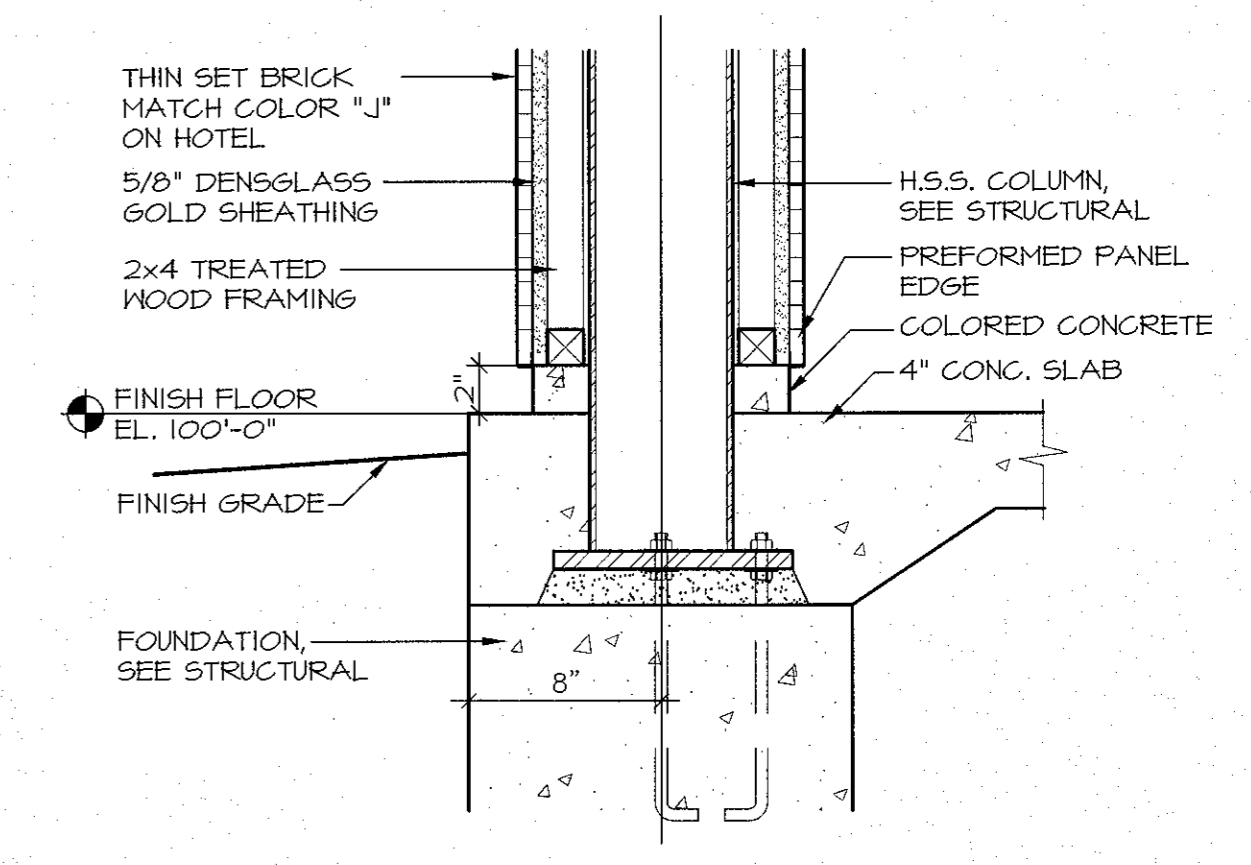
GAZEBO SECTION
SCALE: 1/2" = 1'-0"



3 EAVE DETAIL
SCALE: 1/2" = 1'-0"



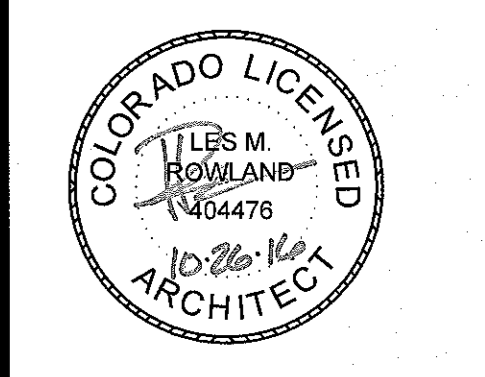
4 COLUMN DETAIL
SCALE: 3" = 1'-0"



5 BASE DETAIL
SCALE: 1/2" = 1'-0"

CANDLEWOOD SUITES
Pueblo, CO
PROJ. MGR.
PRO GROUP INC.
208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

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ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

SHEET NAME:
Gazebo Plan, Elevations & Details

PROJECT NO.
W16006
DRAWN BY:
CDS
CHECKED BY:
WLP
DATE:
10.27.2016
SHEET:

AC2.2

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PUEBLO, COLORADO**

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Section 01600 Product Requirements
Section 01700 Execution Requirements

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Section 02200 Earthwork
Section 02280 Soil Treatment
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* SECTIONS NOT FOUND IN THIS SHEET INDEX ARE PROVIDED BY OWNER. SEE SECTION 01600 FOR OWNER MATRIX.

SECTION 01110 - SUMMARY

A. SUMMARY OF WORK

1. Project Identification: As follows:

- a. Location: Pueblo, Colorado
- b. Owner: Pueblo Lodging, LLC, Aberdeen, SD
- c. General: Quest Development & Construction, Inc., Aberdeen, SD

2. Contract Documents, were prepared by Pro Group, Inc., 208 E. Holly Blvd., Brandon, SD 57005

3. The work consists of a four story Candlewood Suites Hotel.

B. WORK RESTRICTIONS

1. Sub Contractor's Use of Premises: During construction, Sub Contractor shall have full use of site indicated. Sub Contractor's use of premises is limited only by Owner's right to perform work or employ other sub contractors on portions of Project.

END OF SECTION 01110

SECTION 01300 - ADMINISTRATION REQUIREMENTS

A. PROJECT MANAGEMENT AND COORDINATION

1. No construction shall begin until a written notice to proceed is issued to the sub contractor.

2. Verify layout information shown on Drawings, in relation to property survey and existing benchmarks, before, laying out the Work.

B. SUBMITTAL PROCEDURES

1. Coordinate submittal preparation with construction schedule, fabrication lead-times, other submittals, and other activities that require sequential operations.

a. No extension of Contract Time will be authorized due to failure to transmit submittals in time to permit processing sufficiently in advance of when the materials are required in the Work.
b. Architect will not accept submittals from sources other than the contractor.

2. Prepare submittals by placing a permanent label on each for identification. Submit 5 copies or 1 electronic file with the following information:

1

- a. Project Name.
- b. Date.
- c. Name and address of Contractor.
- d. Name and address of subcontractor or supplier.
- e. Number and title of appropriate Specification Section.
- f. Contractor's certification that materials comply with specified requirements.

3. Product Data: Mark each copy to show applicable choices and options, include the following:

- a. Date indicating compliance with specified standards and requirements.
- b. Notation of coordination requirements.
- c. For equipment data, include rated capacities, dimensions, weights, required clearances, and furnished specialties, and accessories.

4. Samples: Submit Samples finished as specified and identical with the material proposed. Where variations are inherent in the material, at least 3 units that show the limits of the variations. Include product name or name of the manufacturer.

5. Architect will review each submittal, mark as appropriate to indicate action taken, and return copies less those retained. Compliance with specified requirements remains Contractor's responsibility.

END OF SECTION 01300

SECTION 01400 - QUALITY REQUIREMENTS

A. QUALITY CONTROL

1. Quality-control services include inspections, tests, and related actions including reports, performed by General Contractor, by independent agencies, and by governing authorities.

2. General Contractor shall employ and pay a qualified independent testing agency to perform tests and inspections specified in other Sections, and those required by authorities having jurisdiction.

3. Retesting: General Contractor shall pay for retesting where results of inspections and tests prove unsatisfactory and indicate noncompliance with requirements.

4. Auxiliary Services: Cooperate with agencies performing inspections and tests. Provide auxiliary services as requested. Notify agency in advance of operations requiring tests or inspections, to permit assignment of personnel. Auxiliary services include the followings:

- a. Access to the Work.
- b. Incidental labor and facilities to assist inspections and tests.
- c. Adequate quantities of samples of materials that require testing, and assisting in taking samples.

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- d. Facilities for storage and curing of test samples.
- e. Security and protection of samples and test equipment.

5. Duties of Testing Agency: Testing agency shall cooperate with Architect and General Contractor in performing its duties. Agency shall provide qualified personnel to perform inspections and tests.

a. Agency shall notify Architect and General Contractor of irregularities or deficiencies observed in the Work during performance of its services.
b. Agency shall not release, revoke, alter, or enlarge requirements of the Contract Documents or approve or accept any portion of the Work.
c. Agency shall not perform duties of Sub Contractor.

6. Submittals: Testing agency shall submit a certified written report of each inspection and test to the following:

- a. Owner
- b. Architect
- c. General Contractor
- d. Structural Engineer
- e. Authorities having jurisdiction, when authorities so direct.

7. Report Data: Reports of each inspection, test, or similar service shall include at least the following:

- a. Date of issue.
- b. Project title and number.
- c. Name, address, and telephone number of testing agency.
- d. Dates and locations of samples and tests or inspections.
- e. Names of individuals making the inspection or test.
- f. Designation of the Work and test method.
- g. Identification of product.
- h. Complete inspection of test data.
- i. Test results and an interpretation of test results.
- j. Ambient conditions at the time of sample taking and testing.
- k. Comments or professional opinion on whether inspected or tested Work complies with requirements.
- l. Name and signature of laboratory inspector.
- m. Recommendations on retesting or reinspections.

8. Qualifications for Service Agencies: Engage inspection and testing service agencies that are prequalified as complying with the American Council of Independent Laboratories' "Quality Assurance Manual" and that specialize in the types of inspections and tests to be performed.

a. Each agency shall be authorized by authorities having jurisdiction to operate in the

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state where the Project is located.

END OF SECTION 01400

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

A. SECTION REQUIREMENTS

1. Standards: Comply with NFPA 241, "Standard for Safeguarding Construction, Alterations, and Demolition Operations"; ANSI A10 Series standards for "Safety Requirements for Construction and Demolition"; and NECA Electrical Design Library's "Temporary Electrical Facilities."

a. Electrical Service: Comply with NEMA, NECA and UL standards and regulations for temporary electrical service. Install service in compliance with NFPA 70.

B. MATERIALS AND EQUIPMENT

1. Provide new materials and equipment for construction of temporary facilities and controls.

C. TEMPORARY UTILITIES (PROVIDED BY OWNER/GENERAL CONTRACTOR)

1. Provide temporary electric power, lighting, water, telephone service(s) to project site for use during construction. Arrange for and coordinate service(s) with local utility companies.

a. General Contractor shall also pay use charges for temporary utilities.

2. Provide temporary heat for curing drying of work, and for protection of new construction from adverse effects of low temperatures. Use of gasoline-burning heaters and open-flame heaters is not permitted.

3. Provide temporary sanitary facilities. Comply with regulations and health codes for type, number location, and maintenance of facilities.

D. TEMPORARY CONSTRUCTION FACILITIES (PROVIDED BY OWNER/GENERAL CONTRACTOR)

1. General Contractor to provide field offices, storage trailers, and other support facilities as necessary for efficient prosecution of the Work.

a. Temporary facilities located within the construction area or within 30 feet (9 m) of building lines shall be noncombustible construction.

2. Collect waste daily and dispose of waste off-site according to local ordinances, when containers are full.

a. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material according to applicable laws and regulations.

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E. TEMPORARY CONTROLS (PROVIDED BY OWNER/GENERAL CONTRACTOR)

1. General Contractor to provide temporary fire protection until permanent systems supply fire-protection needs.

- a. Provide adequate numbers and types of fire extinguishers.
- b. Store combustible materials in fire-safe containers in fire-safe locations.
- c. Prohibit smoking in hazardous fire-exposure areas.
- d. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition.

2. General Contractor to provide temporary barricades, warning signs, and lights to protect the public and construction personnel from construction hazards.

a. Enclosure construction area(s) with fence(s) with lockable entrance gates, to prevent unauthorized access.

3. General Contractor to provide temporary environmental controls as required by authorities having jurisdiction including, but not limited to, erosion and sediment control, dust control, noise control, and pollution control.

END OF SECTION 01500

SECTION 01600 - PRODUCT REQUIREMENTS

A. SECTION REQUIREMENTS

1. Provide products of same kind from a single source.

2. Deliver, store, and handle products according to manufacturer's written instructions, using means and methods that will prevent damage, deterioration, and loss, including theft.

- a. Schedule delivery to minimize long-term storage and to prevent overcrowding construction spaces.
- b. Deliver in manufacturer's original sealed packaging with labels and written instructions for handling, storing, protecting, and installing.
- c. Inspect to ensure compliance with the Contract Documents and to ensure items are undamaged and properly protected.
- d. Store heavy items in a manner that will not endanger supporting construction.
- e. Store items subject to damage aboveground, under cover in a weather tight enclosure, with ventilation adequate to prevent condensation. Maintain temperature and humidity.

B. PRODUCT OPTIONS

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1. Provide items that comply with the Contract Documents, are undamaged, and are new at the time of installation.

a. Provide products and equipment complete with accessories, trim, finish, and other devices and components needed for a complete installation and the intended use and effect.

2. Do not attach manufacturer's labels or trademarks, except for required nameplates, on surfaces exposed to view in occupied spaces or on the exterior.

3. Select products as follows:

- a. Where these Specifications name only a single product or manufacturer, provide the item indicated. No substitutions will be permitted unless approved by Owner.
- b. Where these specifications name 2 or more products or manufacturers, provide 1 of the items indicated. No substitutions will be permitted.
- c. Where products or manufacturers are specified by name, accompanied by the term "or equal," comply with provisions concerning "product substitutions" to obtain approval for use of an unnamed product or manufacturer.
- d. Where these Specifications describe a product and list characteristics required, with or without naming a brand or trademark, provide a product that complies with the characteristics and other requirements.
- e. Where these Specifications require compliance with performance requirements, provide products that comply and are recommended in writing by the manufacturer for the application.
- f. Where these Specifications require compliance with codes, regulations, or reference standards, select a product that complies with the codes, regulations, or reference standards.

C. WORK COVERED BY CONTRACT DOCUMENTS

1. Work comprises the complete construction of materials and labor for a Candlewood Suites, located in Pueblo, CO.

2. The Work includes, but is not limited to Site Work, Structural, Architectural, Plumbing, Mechanical, and Electrical systems. It also includes installation of furniture, fixtures and equipment (FF&E) furnished by the owner.

D. CONTRACTS

1. Contract Description: Construct the Work under a Contract Form as furnished by Owner.

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E. OWNER PURCHASE/INSTALL CATEGORIES

- Purchase/Install Categories:
- C Sub Contractor
- O Owner / Operator
- FFE Purchasing Agent for Owner FFE Items
- V Vendor Supplier

NOTE: Sub Contractor to unload, stock, assemble and install all Owner furnished items and trash.

NOTE: All equipment, hardware, FF&E and furnishings must meet IHG specifications.

ITEM PURCHASE INSTALL

Permits and Impact Fees	O	---
Pre Opening Inventory	O	O
& Supplies	O	O
Computers	O	O
Safe Deposit Boxes	O	C

ITEM PURCHASE INSTALL

Phone System, Internet, Overhead Music Equipment Only	O	O
Vending Machines	O	V
Storage Room Shelving	O	C

Exterior Signage:
A. Sign Bases, Pole & Sign
B. Logo Signs On Building
C. Direction, Traffic
D. Electrical For Above

A. Sign Bases, Pole & Sign	O	V
B. Logo Signs On Building	O	V
C. Direction, Traffic	C	C
D. Electrical For Above	C	C

Interior Signage

Landscaping:	C	C
A. Irrigation System	C	C
B. Planting	C	C

Roadways, Parking, Walks

Utility Buildings / Dumpster Enclosure /Gazebo

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Guest Room PTAC or A/C units (Thermostats, Drain Kits, Energy Management)

Guest Bath Accessories (Towel racks, Robe Hooks, Shower Rods, Toilet Paper Holder, Towel Bars, Etc.)

Fasteners for FF&E Installation

Interior finish caulking

Guest Room Microwave/ Refrigerators / Appliances

Guest Room Vanity Tops - Quartz With Lavs

Guest Laundry Washers, Dryers

Guest Laundry Hoses Electric Pig Tail

Public Restroom Vanity Tops - Quartz With Lavs

Registration Desk

Fire Extinguisher Cabinets

Fire Extinguishers

Schedulision System
A. Antenna/Satellite System
B. Television Panel/Cablings

Lobby Area Artwork FFE

Market Shop (FF&E, Flooring, Wall Vinyl, Refrigerator, Freezer, Microwave, Shelving)

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Guest Room Furniture (Includes Light Fixtures, Amenities, FFE, ETC.)

Guest Room Beds (Includes Box Spring, Mattress & Bed Frame)

Guest Room Bedspreads

Guest Room Utensils, Kettles, Cups, Plates, etc.

Guest Room Hairdryers

Guest Room Drapery / Track

Guest Room Shelving

ITEM PURCHASE INSTALL

Guest Room Iron / Board & Rack

Guest Room Bar Sinks / Kitchen (SS)

Guest Room Television / Swivel

Common Area Television / Swivel

Safes Behind Desk

Exercise Equipment

Breakfast & Lobby Area (FFE, Carpet, Carpet Pad, Ceramic Tile, Wall Vinyl)

Business Center (FFE, Carpet, Carpet Pad, Wall Vinyl, Counter Tops)

Business Center (Computers, Fax Machines, Photo Copier, Printer, Etc.)

Corridor (Carpet, Carpet Pad, Ceramic Tile,

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Wall Vinyl, Wall Scones)

Corner Guards (Corridor, Stairways, Guest Rooms, Common Areas)

Caulking (All Door Frames, Fire Extinguisher Cabinets, Cabinets, Windows, Tubs, Stools, Lavs, PTAC's, VTAC's Etc.)

Employee Break Room (FFE, Carpet, Carpet Pad, Ceramic Tile, Wall Vinyl, Refrigerator, Microwave, Lockers, Table, Bulletin Boards, Time Clock, First Aid Kit, Cork Board)

Elevator Cab (Poster & Frame)

Fitness Center Full Length Wall Mirror

ITEM PURCHASE INSTALL

Fitness Center (FFE, Rubber Floor, Wall Vinyl, Water Dispenser, Clock)

Housekeeping Office (FFE, Carpet, Carpet Pad, Ceramic Tile, Wall Vinyl)

Laundry (FFE, Flooring, Wall Vinyl, Washers, Dryers, Etc.)

Laundry Hook Ups (Washer Hoses, Dryer Cords)

Laundry Shelving

Lobby & Seating Area (FFE, Carpet, Carpet Pad, Ceramic Tile, Wall Vinyl)

Meeting Room (FFE, Carpet, Carpet Pad, Wall Vinyl, Pictures)

Office (FFE, Carpet, Carpet Pad, Wall Vinyl, Pictures)

Community Storage (Mop Sink, Hand Wash Sink, Faucets.)

Community Storage (Flooring)

FRP for the Community Storage, Laundry Room, Behind Washers, Mop Sinks)

Back of House Common Areas Wood Base & Trim

Stair Towers, Hand Rails, Skirt Boards

ITEM PURCHASE INSTALL

Vending Area (FFE, Flooring, Wall Vinyl, Ice Machines)

Work Room (FFE, Carpet, Carpet Pad, Wall Vinyl)

Guest Bathroom Thresholds - Quartz

Window Sills - Quartz

Windows - Columbia

Doors, Frames, Hardware, Locks, Closures

Electronic Card Reader Locks

Entry Recessed Floor Mats

Laundry Chute Doors & Access Panels

Laundry Chute

Bath Bays & Showers

Grab Bars

Public & Employee Bathrooms (Sanitary Napkin Dispenser, Grab Bars, Paper Towel Dispenser, Paper Holder, Coat Hooks, Baby Changing Station, Pictures)

Showersheads

Faucets

Shower Valves

Quartz Tops & Sills (where noted) (Vanities, Front Desk, Common Areas, Guest Room Baths, Stair Towers, Back of House, Kitchens)

Exterior Lighting

Light Fixtures (Interior Recessed)

Decorative Surface Mount

ITEM PURCHASE INSTALL

Low Voltage Wiring

Telephone Wire

Security Cameras

Security Camera Cabling

Cabinets



Pueblo, CO

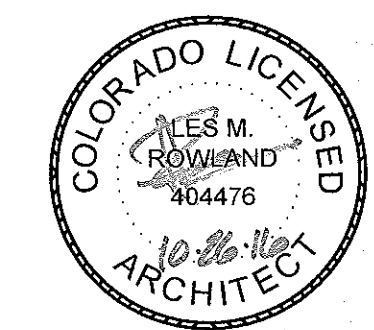
PROJ. MGR.



208 E. Holly Boulevard
Brandon, South Dakota 57005

Phone: 605.336.8197
Fax: 605.582.3894

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ARCHITECT:

LES ROWLAND

212 E. Holly Boulevard
Brandon, South Dakota 57005

Mechanical Louvers	C	C	d. Changeover locks and transmit keys to Owner. e. Complete startup testing of systems and instruction of operation for management and maintenance personnel. f. Remove temporary facilities and controls. g. Complete final cleanup. h. Touch up, repair, and restore marred, exposed finishes. i. Obtain final inspections from authorities having jurisdiction. j. Obtain certificate of occupancy.
Fire Light Glass for Doors & Windows (No Wire Glass)	C	C	
Suspended Ceiling	C	C	
Eyewash Stations (Maintenance, and Laundry)	C	C	

- F. Project Insurance by each Contractor**
- Each contract between the Owner and contractor and its subcontractor shall provide to the General Contractor current insurance certificates for the following coverages:
 - Workman's Compensation Insurance as required by state law
 - General Liability at \$2,000,000, \$1,000,000 each occurrence
 - Name Owner (Holiday Inn Express) as "Additional Insured"

G. HAZARDOUS MATERIALS

- In the event the Sub Contractor encounters material reasonably believed to contain asbestos or other hazardous materials which have not been identified or rendered harmless, the Sub Contractor shall immediately stop work in the area affected and report the condition to the Owner in writing. The work in the affected area shall be resumed in the absence of asbestos, as verified by the Owner.
- To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Sub Contractor, Engineer, Architect, Engineer's and Architect's consultants and agents and employees of any of them from and against claims, damages, losses, and expenses, including, but not limited to, attorney's fees arising out of or resulting from performance of the work in the affected area if, in fact, the material is asbestos and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the work itself), including loss of use resulting there from, but only to the extent caused in whole or in part by negligent acts or omissions of the Owner, anyone directly or indirectly employed by the Owner or anyone for whose acts the Owner may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a part or person described in this Subparagraph.

H. PRODUCT SUBSTITUTIONS

- Reasonable and timely requests for substitutions will be considered. Substitutions include changes proposed by the Sub Contractor after award of the Contract, in products and methods

of construction required by the Contract Documents.

- Do not submit unapproved substitutions on Shop drawings.

- Submit 4 copies of each request for product substitution. Identify product to be replaced, provide complete documentation showing compliance of proposed substitution with all specified requirements, and include the following:
 - A full comparison with the specified product.
 - A list of changes to other Work required to accommodate the substitution.
 - Any proposed changes in the Contract Sum or Contract Time should the substitution be accepted.
- Architect will review the proposed substitution and notify General Contractor of its acceptance or rejection.

END OF SECTION 01600

SECTION 01700 - EXECUTION REQUIREMENTS

- A. CLOSEOUT SUBMITTALS**
- Record Drawings: Maintain a set of Contract Drawings as Record Drawings. Mark to show installation that varies from the Work originally shown.
 - Record Specifications: Maintain one copy of the Project documents, including addenda, as Record Specifications. Mark to show variations in Work performed in comparison with the text of the Specifications and modifications.
 - Operation and Maintenance Data: Each Subcontractor will be required to provide (4) four O&M Manuals. Subcontractor to provide 4, organized data into 3-ring binders, with pocket folders for folded sheet information. Mark identification on front and spine of each binder. Include the following:
 - Emergency instructions
 - Spare parts list.
 - Copies of warranties.
 - Wiring diagrams
 - Shop Drawings and Product Data.
- B. EXAMINATION AND PREPARATION**
- Examine substrates and conditions for compliance with manufacturer's written requirements including, but not limited to, surfaces that are smooth, level, and plumb; substrates within installation tolerances; surfaces that are smooth, clean, and free of deleterious substances; and application conditions within the environmental limits. Do not

proceed with installation until unsatisfactory conditions have been corrected.

- Prepare substrates and adjoining surfaces according to manufacturer's written instructions, including, but not limited to, the application of fillers and primers.

C. CUTTING AND PATCHING

- Do not cut structural members without prior written approval of Architect.
 - For patching, provide materials whose installed performance will equal or surpass that of existing materials. For exposed surfaces, provide or finish materials to visually match existing adjacent surfaces to the fullest extent possible.
- D. INSTALLATION**
- Comply with manufacturer's written instructions for installation. Anchor each product securely in place, accurately located and aligned. Clean exposed surfaces and protect from damage. If applicable, prepare surfaces for field finishing.
 - Comply with NFPA 70 for installation of electrically operated equipment and electrical components and materials.
- E. FINAL CLEANING**
- Clean each surface or item as follows before requesting inspection for certification of Substantial Completion.
 - Remove labels that are not permanent.
 - Clean transparent materials, including mirrors. Remove excess glazing compounds. Replace chipped or broken glass.
 - Clean exposed finishes to a dust-free condition, free of stains, films, and foreign substances. D. Leave concrete floors broom clean.
 - Vacuum carpeted surfaces and wax resilient flooring.
 - Wipe surfaces of mechanical and electrical equipment. Remove excess lubrication. Clean plumbing fixtures. Clean light fixtures and lamps.
 - Clean the site. Sweep paved areas; remove stains, spills, and foreign deposits. Rake grounds to a smooth, even textured surface.

F. CLOSEOUT PROCEDURES

- Request Substantial Completion inspection once the following are complete:
 - Advise Owner of pending insurance changeover requirements.
 - Submit Record Drawings and Specifications, maintenance manuals, warranties, and similar record information.
 - Deliver spare parts, extra stock, and similar items.

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building limits as required for below-grade improvements and to achieve contours and elevations indicated. Provide trenching and backfill for mechanical and electrical work and utilities.

- Provide subbase materials, drainage fill, and common fill materials for slabs, pavements, and improvements.
- Provide suitable fill from offsite if on-site quantities are insufficient or unacceptable, and legally dispose of excess fill offsite.
- Provide rock excavation without blasting unless blasting is specifically authorized.

B. SUBMITTALS

- Submit for approval test reports, list of materials and gradations proposed for use.

C. QUALITY ASSURANCE

- Comply with governing codes and regulations.

D. MATERIALS

- Subbase material: Shall comply to the Soils Test by Terracon.
- Drainage fill: Shall comply to the Soils Test by Terracon.
- Common fill: Shall comply to the Soils Test by Terracon.
- Structural fill: Shall comply to the Soils Test by Terracon.

E. INSTALLATION

- Excavation is unclassified and includes excavation to subgrade regardless of materials encountered. Repair excavations beyond elevations and dimensions indicated as follows:
 - At structure: Concrete or compacted structural fill.
 - Elsewhere: Backfill and compact as directed.
- Do not perform work without written authorization from the Owner if subgrade material is unsuitable for intended use.
- Maintain stability of excavations; coordinate shoring and bracing as required by authorities having jurisdiction. Prevent surface and subsurface water from accumulating in excavation. Stockpile satisfactory materials for reuse, allow for proper drainage and do not stockpile materials within drip line of trees to remain.
- Compact materials at the optimum moisture content as determined by ASTM D1557 by aeration or wetting to the following percentages of maximum dry density:
 - Structure, Pavement, Walkways: Subgrade and each fill layer to 95% of maximum dry density to suitable depth.
 - Unpaved Areas: Top 6" of subgrade and each fill layer to 90% maximum dry density.

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Proceed with installation until unsatisfactory conditions have been corrected.

- Prepare substrates and adjoining surfaces according to manufacturer's written instructions, including, but not limited to, the application of fillers and primers.

C. CUTTING AND PATCHING

- Do not cut structural members without prior written approval of Architect.
- For patching, provide materials whose installed performance will equal or surpass that of existing materials. For exposed surfaces, provide or finish materials to visually match existing adjacent surfaces to the fullest extent possible.

D. INSTALLATION

- Comply with manufacturer's written instructions for installation. Anchor each product securely in place, accurately located and aligned. Clean exposed surfaces and protect from damage. If applicable, prepare surfaces for field finishing.
- Comply with NFPA 70 for installation of electrically operated equipment and electrical components and materials.

E. FINAL CLEANING

- Clean each surface or item as follows before requesting inspection for certification of Substantial Completion.
 - Remove labels that are not permanent.
 - Clean transparent materials, including mirrors. Remove excess glazing compounds. Replace chipped or broken glass.
 - Clean exposed finishes to a dust-free condition, free of stains, films, and foreign substances. D. Leave concrete floors broom clean.
 - Vacuum carpeted surfaces and wax resilient flooring.
 - Wipe surfaces of mechanical and electrical equipment. Remove excess lubrication. Clean plumbing fixtures. Clean light fixtures and lamps.
 - Clean the site. Sweep paved areas; remove stains, spills, and foreign deposits. Rake grounds to a smooth, even textured surface.

F. CLOSEOUT PROCEDURES

- Request Substantial Completion inspection once the following are complete:
 - Advise Owner of pending insurance changeover requirements.
 - Submit Record Drawings and Specifications, maintenance manuals, warranties, and similar record information.
 - Deliver spare parts, extra stock, and similar items.

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- Place acceptable materials in layers not more than 8" loose depth for materials compacted by heavy equipment and not more than 4" loose depth for materials compacted by hand equipment to subgrades indicated as follows. Review Soils Report for recommended fill depths:
 - Structural Fill: Use under foundations, slabs on grade in layers as indicated.
 - Drainage Fill: Use under designated building slabs, at foundation drainage and elsewhere as indicated.
 - Common Fill: Use under unpaved areas.
 - Subbase Material: Use under pavement, walks, steps, piping and conduit.
- Grade to within 3/8" above or below required subgrade and within a tolerance of 1/8" in ten feet.
- Protect newly graded areas from traffic and erosion. Recompact and regrade settled, disturbed and damaged areas as necessary to restore quality, appearance, and condition of work.
- Control erosion and windblown dust. Dispose of waste and unsuitable materials off site in a legal manner.

END OF SECTION 02200

SECTION 02280 - SOIL TREATMENT

- A. SUMMARY**
- Provide soil treatment for termite control at the end of earthwork operations.
- B. SUBMITTALS**
- Submit for approval product data, warranty.
- C. QUALITY ASSURANCE**
- Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- D. WARRANTY**
- Provide written warranty agreeing to re-treat soil and repair damage caused by termite infestation, carpenter ants and other pests during 5 year period from date of substantial completion.

5. Place acceptable materials in layers not more than 8" loose depth for materials compacted by heavy equipment and not more than 4" loose depth for materials compacted by hand equipment to subgrades indicated as follows. Review Soils Report for recommended fill depths:

- Structural Fill: Use under foundations, slabs on grade in layers as indicated.
- Drainage Fill: Use under designated building slabs, at foundation drainage and elsewhere as indicated.
- Common Fill: Use under unpaved areas.
- Subbase Material: Use under pavement, walks, steps, piping and conduit.

- Grade to within 3/8" above or below required subgrade and within a tolerance of 1/8" in ten feet.
- Protect newly graded areas from traffic and erosion. Recompact and regrade settled, disturbed and damaged areas as necessary to restore quality, appearance, and condition of work.
- Control erosion and windblown dust. Dispose of waste and unsuitable materials off site in a legal manner.

END OF SECTION 02700

SECTION 02764 - PAVEMENT JOINT SEALANTS

- PART 1 - GENERAL**
- Expansion and contraction joints within cement concrete pavement.
 - Joints between cement concrete and asphalt pavement.
- 1.2. QUALITY ASSURANCE**
- Preconstruction Compatibility and Adhesion Testing: Submit samples of materials that will contact or affect joint sealants to joint-sealant manufacturers for testing according to ASTM C 1087 to determine whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of joint sealants to joint substrates.
- PART 2 - PRODUCTS**
- 2.1 MATERIALS, GENERAL**
- Compatibility: Provide joint sealants, backing materials, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer based on testing and field experience.
 - Primers: Product recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
 - Colors of Exposed Joint Sealants: As selected by Owner from manufacturer's full range.
- 2.2 COLD-APPLIED JOINT SEALANTS**
- Type SL Silicone Sealant for Concrete and Asphalt: Single-component, low-modulus, neutral curing, self-leveling silicone sealant complying with ASTM D 5893 for Type SL.
- 2.3 JOINT-SEALANT BACKER MATERIALS**
- Round Backer Rods for Cold-Applied Sealants: ASTM D 5249, Type 3, of diameter and density required to control sealant depth and prevent bottom-side adhesion of sealant.

PART 3 - EXECUTION

- 3.1 INSTALLATION**
- Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions.
 - Joint Priming: Prime joint substrates where indicated or where recommended in writing by joint-sealant manufacturer, based on preconstruction joint-sealant-substrate tests or prior experience.
 - Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- END OF SECTION 02764**

SECTION 03300 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

- 1.1 SUMMARY**
- This Section specifies cast-in place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes, for the following:
 - Footings.
 - Foundation walls.
 - Slabs-on-grade.
 - Concrete toppings.
- 1.2 DEFINITIONS**
- Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash and other pozzolans, ground granulated blast-furnace slag, and silica fume; subject to compliance with requirements.
- 1.3 SUBMITTALS**
- Product Data: For each type of product indicated.
 - Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
 - Indicate amounts of mixing water to be withheld for later addition at Project site.
 - Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement. Include bar sizes, lengths, material, grade, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, splices and laps, mechanical connections, tie spacing, hoop spacing, and supports for

22	25	28	31
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concrete reinforcement.

- Reinforcing: 6x6, 1.9 x 1.9 welded flat wire mesh and ASTM A36 deformed galvanized steel bars.
 - Joints: Performed joint fillers/sealers.
 - Finish:
 - Paving: Fine bristled stiff broom.
 - Imprinting: Tools and hardeners by Bomanite Corp.
 - Curbs: Steel form finish.
- E. INSTALLATION**
- Proof roll subbase and check for unstable areas. Report unsatisfactory conditions in writing. Beginning paving work means acceptance of subbase.
 - Comply with concrete section for concrete mix, testing placement, joints, tolerances, curing, repairs and protection.

END OF SECTION 02764

SECTION 03300 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

- 1.1 SUMMARY**
- This Section specifies cast-in place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes, for the following:
 - Footings.
 - Foundation walls.
 - Slabs-on-grade.
 - Concrete toppings.
- 1.2 DEFINITIONS**
- Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash and other pozzolans, ground granulated blast-furnace slag, and silica fume; subject to compliance with requirements.
- 1.3 SUBMITTALS**
- Product Data: For each type of product indicated.
 - Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
 - Indicate amounts of mixing water to be withheld for later addition at Project site.
 - Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement. Include bar sizes, lengths, material, grade, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, splices and laps, mechanical connections, tie spacing, hoop spacing, and supports for

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concrete reinforcement.

- Reinforcing: 6x6, 1.9 x 1.9 welded flat wire mesh and ASTM A36 deformed galvanized steel bars.
 - Joints: Performed joint fillers/sealers.
 - Finish:
 - Paving: Fine bristled stiff broom.
 - Imprinting: Tools and hardeners by Bomanite Corp.
 - Curbs: Steel form finish.
- E. INSTALLATION**
- Proof roll subbase and check for unstable areas. Report unsatisfactory conditions in writing. Beginning paving work means acceptance of subbase.
 - Comply with concrete section for concrete mix, testing placement, joints, tolerances, curing, repairs and protection.

END OF SECTION 02764

SECTION 03300 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

- 1.1 SUMMARY**
- This Section specifies cast-in place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes, for the following:
 - Footings.
 - Foundation walls.
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 - Concrete toppings.
- 1.2 DEFINITIONS**
- Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash and other pozzolans, ground granulated blast-furnace slag, and silica fume; subject to compliance with requirements.
- 1.3 SUBMITTALS**
- Product Data: For each type of product indicated.
 - Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
 - Indicate amounts of mixing water to be withheld for later addition at Project site.
 - Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement. Include bar sizes, lengths, material, grade, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, splices and laps, mechanical connections, tie spacing, hoop spacing, and supports for

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- Expansion and contraction joints within cement concrete pavement.
 - Joints between cement concrete and asphalt pavement.
- 1.2. QUALITY ASSURANCE**
- Preconstruction Compatibility and Adhesion Testing: Submit samples of materials that will contact or affect joint sealants to joint-sealant manufacturers for testing according to ASTM C 1087 to determine whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of joint sealants to joint substrates.
- PART 2 - PRODUCTS**
- 2.1 MATERIALS, GENERAL**
- Compatibility: Provide joint sealants, backing materials, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer based on testing and field experience.
 - Primers: Product recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
 - Colors of Exposed Joint Sealants: As selected by Owner from manufacturer's full range.
- 2.2 COLD-APPLIED JOINT SEALANTS**
- Type SL Silicone Sealant for Concrete and Asphalt: Single-component, low-modulus, neutral curing, self-leveling silicone sealant complying with ASTM D 5893 for Type SL.
- 2.3 JOINT-SEALANT BACKER MATERIALS**
- Round Backer Rods for Cold-Applied Sealants: ASTM D 5249, Type 3, of diameter and density required to control sealant depth and prevent bottom-side adhesion of sealant.

PART 3 - EXECUTION

- 3.1 INSTALLATION**
- Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions.
 - Joint Priming: Prime joint substrates where indicated or where recommended in writing by joint-sealant manufacturer, based on preconstruction joint-sealant-substrate tests or prior experience.
 - Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- END OF SECTION 02764**

SECTION 03300 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

- 1.1 SUMMARY**
- This Section specifies cast-in place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes, for the following:
 - Footings.
 - Foundation walls.
 - Slabs-on-grade.
 - Concrete toppings.
- 1.2 DEFINITIONS**
- Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash and other pozzolans, ground granulated blast-furnace slag, and silica fume; subject to compliance with requirements.
- 1.3 SUBMITTALS**
- Product Data: For each type of product indicated.
 - Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
 - Indicate amounts of mixing water to be withheld for later addition at Project site.
 - Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement. Include bar sizes, lengths, material, grade, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, splices and laps, mechanical connections, tie spacing, hoop spacing, and supports for

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concrete reinforcement.

- Reinforcing: 6x6, 1.9 x 1.9 welded flat wire mesh and ASTM A36 deformed galvanized steel bars.
 - Joints: Performed joint fillers/sealers.
 - Finish:
 - Paving: Fine bristled stiff broom.
 - Imprinting: Tools and hardeners by Bomanite Corp.
 - Curbs: Steel form finish.
- E. INSTALLATION**
- Proof roll subbase and check for unstable areas. Report unsatisfactory conditions in writing. Beginning paving work means acceptance of subbase.
 - Comply with concrete section for concrete mix, testing placement, joints, tolerances, curing, repairs and protection.

END OF SECTION 02764

SECTION 02764 - PAVEMENT JOINT SEALANTS

PART 1 - GENERAL

- 1.1. SUMMARY**
- This Section includes the following:
 - Expansion and contraction joints within cement concrete pavement.
 - Joints between cement concrete and asphalt pavement.
- 1.2. QUALITY ASSURANCE**
- Preconstruction Compatibility and Adhesion Testing: Submit samples of materials that will contact or affect joint sealants to joint-sealant manufacturers for testing according to ASTM C 1087 to determine whether priming and other specific joint preparation techniques are required to obtain rapid, optimum adhesion of joint sealants to joint substrates.

PART 2 - PRODUCTS

- 2.1 MATERIALS, GENERAL**
- Compatibility: Provide joint sealants, backing materials, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer based on testing and field experience.
 - Primers: Product recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
 - Colors of Exposed Joint Sealants: As selected by Owner from manufacturer's full range.
- 2.2 COLD-APPLIED JOINT SEALANTS**
- Type SL Silicone Sealant for Concrete and Asphalt: Single-component, low-modulus, neutral curing, self-leveling silicone sealant complying with ASTM D 5893 for Type SL.
- 2.3 JOINT-SEALANT BACKER MATERIALS**
- Round Backer Rods for Cold-Applied Sealants: ASTM D 5249, Type 3, of diameter and density required to control sealant depth and prevent bottom-side adhesion of sealant.

PART 3 - EXECUTION

- 3.1 INSTALLATION**
- Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions.
 - Joint Priming: Prime joint substrates where indicated or where recommended in writing by joint-sealant manufacturer, based on preconstruction joint-sealant-substrate tests or prior experience.
 - Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- END OF SECTION 02764**

SECTION 03300 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

- 1.1 SUMMARY**
- This Section specifies cast-in place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes, for the following:
 - Footings.
 - Foundation walls.
 - Slabs-on-grade.
 - Concrete toppings.
- 1.2 DEFINITIONS**
- Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash and other pozzolans, ground granulated blast-furnace slag, and silica fume; subject to compliance with requirements.
- 1.3 SUBMITTALS**
- Product Data: For each type of product indicated.
 - Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
 - Indicate amounts of mixing water to be withheld for later addition at Project site.
 - Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement. Include bar sizes, lengths, material, grade, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, splices and laps, mechanical connections, tie spacing, hoop spacing, and supports for

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concrete reinforcement.

- Reinforcing: 6x6, 1.9 x 1.9 welded flat wire mesh and ASTM A36 deformed galvanized steel bars.
 - Joints: Performed joint fillers/sealers.
 - Finish:
 - Paving: Fine bristled stiff broom.
 - Imprinting: Tools and hardeners by Bomanite Corp.
 - Curbs: Steel form finish.
- E. INSTALLATION**
- Proof roll subbase and check for unstable areas. Report unsatisfactory conditions in writing. Beginning paving work means acceptance of subbase.
 - Comply with concrete section for concrete mix, testing placement, joints, tolerances, curing, repairs and protection.

END OF SECTION 02764

SECTION 03300 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

- 1.1 SUMMARY**
- This Section specifies cast-in place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes, for the following:
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- 1.3 SUBMITTALS**
- Product Data: For each type of product indicated.
 - Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
 - Indicate amounts of mixing water to be withheld for later addition at Project site

- 1. For mixer capacity of 1 cu. yd. or smaller, continue mixing at least 1-1/2 minutes, but not more than 5 minutes after ingredients are in mixer, before any part of batch is released.

PART 3 - EXECUTION

- 3.1 FORMWORK
 - A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
 - B. Limit concrete surface irregularities, designated by ACI 347R as abrupt or gradual, as follows:
 - 1. Class A, 1/8 inch for smooth-formed finished surfaces.
 - 2. Class B, 1/4 inch for rough-formed finished surfaces.

- 3.2 EMBEDDED ITEMS
 - A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

- 3.3 VAPOR RETARDERS
 - A. Plastic Vapor Retarders: Place, protect, and repair vapor retarders according to ASTM E 1643 and manufacturer's written instructions.

- 3.4 STEEL REINFORCEMENT
 - A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.
 - B. Clean reinforcement of loose rust and mill scale, earth, ice, and other foreign materials that would reduce bond to concrete.

- 3.5 JOINTS
 - A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
 - B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
 - 1. Place joints perpendicular to main reinforcement. Continue reinforcement across construction joints, unless otherwise indicated. Do not continue reinforcement through sides of strip placements of floors and slabs.

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 - 2. Form keyed joints as indicated. Embed keys at least 1-1/2 inches into concrete.
 - 3. Locate joints for beams, slabs, joists, and girders in the middle third of spans. Offset joints in girders a minimum distance of twice the beam width from a beam-girder intersection.
 - 4. Locate horizontal joints in walls and columns at underside of floors, slabs, beams, and girders and at the top of footings or floor slabs.
 - 5. Space vertical joints in walls as indicated. Locate joints beside piers integral with walls, near corners, and in concealed locations where possible.
 - 6. Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
 - 7. Use epoxy-bonding adhesive at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
- C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:
 - 1. Sawn Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch-wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
- D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations.

3.6 CONCRETE PLACEMENT

- A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
- B. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Engineer.
- C. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301.
 - 1. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
- D. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
 - 1. Deposit concrete in horizontal layers of depth to not exceed formwork design pressures and in a manner to avoid inclined construction joints.
 - 2. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
 - 3. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.

3.7 FINISHING FLOORS AND SLABS

- A. General: Comply with ACI 302.1R recommendations for screeding, restraining, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
- B. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill low spots. Repeat float passes and restraining until surface is left with a uniform, smooth, granular texture.
- C. Trowel Finish: After applying float finish, apply first troweling and consolidate concrete by hand or power-driven trowel. Continue troweling passes and restraining until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.
 - 1. Apply a trowel finish to surfaces indicated.
 - 2. Finish and measure surface so gap at any point between concrete surface and an unlevelled, freestanding, 10-foot-long straightedge resting on 2 high spots and placed anywhere on the surface does not exceed 1/4 inch.
- D. Broom Finish: Apply a broom finish to exterior concrete platforms, steps, and ramps, and elsewhere as indicated.
 - 1. Immediately after float finishing, slightly roughen trafficked surface by brooming with fiber-bristle broom perpendicular to main traffic route. Coordinate required final finish with Architect before application.
- E. Stamp Patterns: Archer Slate Stamp Pattern to be used at front entry and rear patio areas. See Construction Documents for extent of work. Concrete color to be selected by Owner.

3.8 CONCRETE PROTECTING AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
- B. Formed Surfaces: Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of curing period, continue curing for the remainder of the curing period.
- C. Unformed Surfaces: Begin curing immediately after finishing concrete. Cure unformed surfaces, including floors and slabs, concrete floor toppings, and other surfaces.

- 3.9 JOINT FILLING
 - A. Prepare, clean, and install joint filler according to manufacturer's written instructions.

3.10 FIELD QUALITY CONTROL

- A. Testing and Inspecting: Owner or Construction Manager will engage a qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.
- B. Concrete Tests: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements:
 - 1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu. yd., but less than 25 cu. yd., plus one set for each additional 50 cu. yd. or fraction thereof.

END OF SECTION 03300

SECTION 03500 - CEMENTITIOUS DECKS AND UNDERLAYMENT

PART 1 - GENERAL

- 1.1 SUMMARY
 - A. Section Includes:
 - 1. Gypsum Cement Floor Underlayment
 - B. Related Documents:
 - 1. Drawings and General Provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to work of this Section.

1.2 QUALITY ASSURANCE

- A. Installer's Qualifications: An experienced installer who is acceptable to manufacturer, who has completed cement-based underlayment applications similar in material and extent to that required for this Project, and whose work has resulted in construction with a record of successful in-service performance.

1.3 PROJECT CONDITIONS

- A. Environmental Limitations: Comply with manufacturer's written recommendations for substrate temperature and moisture content, ambient temperature and humidity, ventilation, and other conditions affecting underlayment performance. Gypcrete underlayment to be 1 inch (2").

PART 2 - PRODUCTS

- 2.1 MANUFACTURERS
 - A. Products: Subject to compliance with requirements, provide one of the following:
 1. Manufacturers:
 - a. *Gyp-Crete 2500*; Maxxon Corporation (612-478-2431)
 - b. *Firm-Fill 2010*; Hacker Industries (800-642-3455)
 - c. *Fast Set Underlayment No. 1248*; The Quikrete Companies (888-357-8691)
 - d. Level Rock; USG.

2.2 PRODUCTS AND MATERIALS

- A. Gypsum Cement: Gypsum cement product as manufactured by listed manufacturers.
- B. Aggregate: Well-graded, washed gravel, 1/8 to 1/2", or coarse sand as recommended by underlayment manufacturer.
- C. Water: Potable and at a temperature of not more than 70 degrees F.
- D. Floor Primer and Sealer: Products of underlayment manufacturer recommended in writing for substrate, conditions, and application indicated.
- E. Material shall be U.L. approved for use in specified floor/ceiling assemblies as shown on drawings.

2.3 MIXES: Mix proportions and methods shall be in strict accordance with product manufacturer's recommendations.

- A. Compressive strength of 2500/3000 psi. Do not over water.

PART 3 - PRODUCTS

- 3.1 PREPARATION FOR INSTALLATION OF GLUE DOWN FLOOR GOODS
 - A. Subcontractor to supply sealer. Owner to install.
 - B. Sealing: Seal all areas that receive glue according to the underlayment manufacturer's specifications. Any floor areas where the surface has been damaged shall be cleaned and sealed regardless of floor covering to be used. Where floor goods manufacturers require special adhesive or installation systems, their requirements supersede these recommendations.
- 3.2 FIELD QUALITY CONTROL
 - A. Slump Test: Gypsum cement mix shall be tested for slump as it's being pumped using a 3" x 4" cylinder for compliance with manufacturer's written recommendations.

END OF SECTION 03500

SECTION 04200 - MASONRY UNITS

PART 1 - GENERAL

- 1.1 SUMMARY
 - A. Section Includes:
 1. Extent of each type of masonry work is indicated on Drawings.
 2. Types of masonry work required include:
 - a. Concrete unit masonry
 - b. Required Masonry Anchors
 - c. Masonry Insulation
 - B. Products installed, but not furnished, under this Section include the following:
 1. Steel Lintels for unit masonry.
- 1.2 SUBMITTALS
 - A. Product Data: Submit manufacturer's product data for each type of masonry unit, accessory, and other manufactured products, including certifications that each type complies with specified requirements.
- 1.3 QUALITY ASSURANCE
 - A. Unit Masonry Standard: Comply with ACI 530.1/ASCE 6, "Specifications for Masonry Structures", except as otherwise indicated.
 1. Revise ACI 530.1/ASCE 6 to exclude Sections 1.4 and 1.7; Parts 2.1.2, 3.1.2, and 4.1.2; and Articles 1.5.1.2, 1.5.1.3, 2.1.1.1, 2.1.1.2, and 2.3.3.9 and to modify Article 2.1.1.4 by deleting requirement for installing vent pipes and conduits built into masonry.
 - B. Fire Resistance Ratings: Where indicated, provide materials and construction which are identical to those of assemblies with fire-resistance ratings determined by testing in compliance

- with ASTM E 119 by a recognized testing and inspecting organization, by equivalent concrete masonry thickness, or by another means, as acceptable to authority having jurisdiction.

- C. Single Source Responsibility for Masonry Units:
- D. Single Source Responsibility for Mortar Materials:

1.4 PROJECT/SITE CONDITIONS

- A. Protection of Work: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work.
- B. Do not apply uniform roof loading for at least 12 hours after building masonry walls or columns.
- C. Do not apply concentrated loads for at least 3 days after building masonry walls or columns.

1.5 COLD AND HOT WEATHER PROTECTION

- A. Cold-Weather Requirements: Comply with cold weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
- C. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F and above and will remain so until masonry has dried out, but not less than 7 days after completion of cleaning.
- D. Hot-Weather Requirements: Protect unit masonry work when temperature and humidity conditions produce excessive evaporation of water from mortar and grout. Provide artificial shade and wind breaks and use cooled materials as required.
 1. When ambient temperature exceeds 100 deg F, or 90 deg F with a wind velocity greater than 8 mph, do not spread mortar beds more than 48 inches ahead of masonry. Set masonry units within one minute of spreading mortar.

PART 2 - PRODUCTS

- 2.1 CONCRETE MASONRY UNITS
 - A. General: Comply with referenced standards and other requirements indicated below applicable to each form of concrete masonry unit required.
 1. Provide special shapes where required for lintels, corners, jambs, sash, control joints, headers, bonding and other special conditions.
 2. Provide square-edged units for outside corners, unless indicated as bullnose.
 - B. Concrete Masonry Units: Provide units complying with characteristics indicated below for grade, type, face size, exposed face and, under each form of block included, for weight

classification:

- 2. Size
 - a. Unless noted otherwise, provide manufacturer's standard units with nominal face dimensions of 16" long x 8" high (15-5/8" x 7-5/8" actual) x thickness indicated.
- 3. Type I, Moisture-Controlled Units.
- 4. Exposed Faces
 - a. Manufacturer's Standard Gray Color and Texture
- 5. Hollow Loadbearing Block: ASTM C 50, and as follows:
 - a. Weight Classification: Light-weight, minimum compressive strength of 1900 psi (net area).

2.2 SPECIAL SHAPES: Provide where shown and where required for lintels, corners, jambs, sash, control joints, headers, bonding, and other special conditions.

2.3 FIRE RATINGS: Where fire ratings on masonry walls are shown on the Drawings, the Contractor shall make certain that the fire-resistant units to be used qualify for the ratings.

2.4 MORTAR AND GROUT MATERIALS

- A. Masonry Cement: ASTM C-91
 - 1. Manufacturers:
 - a. Medusa Cement Co. (216-371-4000)
 - b. L&H Portland Cement Co. (800-523-5488)
 - c. Lafarge Corporation (703-264-3600)
 - d. The Riverton Corporation (800-336-2490)
- B. Aggregate for Mortar: ASTM C 144; except for joints less than 1/4 inch thick, use aggregate graded with 100 percent passing the No. 16 sieve.
- C. Aggregate for Grout: ASTM C 404.
- D. Grout for Unit Masonry: Comply with ASTM C-476 for grout for use in construction of reinforced and nonreinforced unit masonry. Use grout of consistency indicated or, if not otherwise indicated, of consistency (fine or coarse) at time of placement which will completely fill all spaces intended to receive grout. Minimum compressive strength shall be 2,500 psi in 28 days.
 1. Use fine grout in grout spaces less than 2" in horizontal direction, unless otherwise indicated.
 2. Use coarse grout (maximum 3/8" aggregate) in grout spaces 2" or more in least horizontal dimension, unless otherwise indicated.

- E. Water Repellent Admix:
 - 1. Manufacturers:
 - a. "Dry-Block System Mortar Additive"; WR Grace Masonry Products (800-558-7066)
 - b. "Hydrocide Powder"; Sonneborn Building Products (800-496-6067)
 - 2. Mortar additive shall be used in Type M or S Mortar Only.

F. Mortar Color: Gray.

G. Water: Potable

H. Mortar used to bond unit masonry shall be of Type M or S and shall comply with the property specifications set forth below:

MORTAR STRENGTH PROPERTY SPECIFICATIONS

TYPE	MINIMUM AVERAGE STRENGTH (PSI)
M	2500
S	2500

2.5 JOINT REINFORCEMENT, TIES AND ANCHORING DEVICES

- A. Materials: Comply with requirements indicated below for basic materials and with requirements indicated under each form of joint reinforcement, tie and anchor for size and other characteristics:
 1. Zinc-Coated (galvanized) Steel Wire: ASTM A 82 for uncoated wire and with ASTM C 641 for zinc coating of class indicated below:
 - a. Class 1 (0.40 oz. per sq. ft. of wire surface).
- B. Joint Reinforcement: Provide welded-wire units prefabricated with deformed continuous side rods and plain cross rods into straight lengths of not less than 10', with prefabricated corner and tee units, and complying with requirements indicated below:
 1. Width: Fabricate joint reinforcement in units with widths of approximately 2" less than nominal width of walls and partitions as required to provide mortar coverage of not less than 5/8" on joint faces exposed to exterior.
 2. Wire Size for Side and Cross Rods: #9 Gauge
 3. For single-wythe masonry, provide type as follows with single pair of side rods:
 - a. Truss design with continuous diagonal cross rods spaced not more than 16" o.c.

2.6 REINFORCING STEEL

- A. General: Provide reinforcing steel complying with requirements of referenced unit masonry standard and this article.
- B. Steel Reinforcing Bars: Material and grade as follows:
 1. Billet steel complying with ASTM A 615, Grade 60.
- C. Deformed Reinforcing Wire: ASTM A 496.

2.7 ACCESSORIES

- B. Bond Breaker Strips: Asphalt-Saturated Organic Roofing Felt Complying with ASTM D 226, Type I (No. 15 Asphalt Felt)
- C. Anchor Bolts: Provide steel bolts wit hex nuts and flat washers complying with ASTM A-307, Grade A, hot-dip galvanized to comply with ASTM C-153, Class C, in sizes and configuration indicated.

2.8 MORTAR AND GROUT MIXES

- A. General: Do not use admixtures.
 1. Do not use calcium chloride in mortar or grout.
 2. Add cold-weather admixture (if used) at the same rate for all mortar, regardless of weather conditions, to ensure that mortar color is consistent.
- B. Mixing: Combine and thoroughly mix cementitious, water and aggregates in a mechanical batch mixer; comply with referenced ASTM standards for mixing time and water content.
- C. Mortar for Unit Masonry: Comply with ASTM C 270, Proportion Specification, for types of mortar required, unless otherwise indicated.

PART 3 - EXECUTION

3.1 CONSTRUCTION TOLERANCES

- A. Comply with tolerances in ACI 530-1/ASCE 6/TMS 602 and the following:
 1. Variation from Plumb: For vertical lines and surfaces of columns, walls and arises do not exceed 1/4" in 10', or 3/8" in a story height not to exceed 20'. For external corners, expansion joints, control joints and other conspicuous lines, do not exceed 1/4" in any story or 20' maximum, nor 1/2" in 40' or more. For vertical alignment of head joints, do not exceed plus or minus 1/4" in 10'. For bed joints and lines of exposed lintels, sills, parapets, horizontal grooves and other conspicuous lines, do not exceed 1/4" in any bay or 20' maximum, nor 1/2" in 40' or more. For top surface of bearing walls, do not exceed 1/8" between adjacent floor elements in 10' or 1/16" within width of a single unit.
 3. Variation of Linear Building Line: For position shown in plan and related portion of columns, walls and partitions, do not exceed 1/2" in any bay or 20' maximum, nor 3/4" in 40' or more.
 4. Variation in Mortar Joint Thickness: Do not exceed bed joint thickness indicated by more than plus or minus 1/8", with a maximum thickness limited to 1/2". Do not exceed head joint thickness indicated by more than plus or minus 1/8".

3.2 ANCHORING MASONRY WORK

- A. General: Provide anchor devices of type indicated.

END OF SECTION 04200

SECTION 04812 - MANUFACTURED MASONRY VENEER

PART 1 GENERAL

- 1.1 SUMMARY
 - Specifier Note: Retain material(s) below to conform to project requirements.

A. Section Includes: [Manufactured Stone veneer] [Manufactured brick veneer] [Manufactured stone trim].

1.2 REFERENCES

- A. ASTM International (ASTM):
 1. ASTM C270 Standard Specification for Mortar for Unit Masonry.
 2. ASTM C348 Standard Test Method for Flexural Strength.
 3. ASTM AC51 Standard Test Method for Water Absorption.

1.3 SYSTEM DESCRIPTION

- A. Performance requirements:
 1. Comprehensive Strength: Not less than 1800 psi (12.4 MPa) average of 5 specimens and not less than 1500 psi (10.3 MPa) for individual specimen when testing in accordance with ASTM C39 and ASTM C192.
 2. Bond Between Manufactured Masonry Unit, Mortar and Backing: Not less than 50 psi (345 kPa when tested in accordance with ASTM C482 using type 5 mortar when tested in accordance with ASTM C177).
 3. Thermal Resistance: R-value of not less than 0.355 per inch (25.4 mm) of thickness when tested in accordance with ASTM C177.
 4. Freeze/Thaw: No disintegration and less than 3% weight loss when tested in accordance with ASTM C67.

5. Unit Weight: Not more than 15 pcf (73 kg/m2).

6. Surface Burning Characteristics: Not more than the following when tested in accordance with UL 723:

- a. Flame spread 25.
- b. Smoke Development 450.

B. Quality Control Submittals:

- 1. Test Reports: Certified test reports showing compliance with specified performance requirements and physical properties.
 - 2. Manufacturer's Instructions: Manufacturer's installation instructions.
- C. Operational Maintenance Data: Manufacturer's maintenance and cleaning instruction

PART 2 PRODUCTS

- 2.1 MANUFACTURED MASONRY
 - A. Manufacturer: Canyon Stone Inc.
 - B. Canyon Stone
 - 1. Contact: 550 E. 56 Highway Suite B, Olathe, Kansas 66061: Telephone (913)254-9300 Fax (913)254-9301: Website: www.canyon-stone.com
 - C. Architectural Trim:
 1. Size to be (12 inches by 12 inches by 8 inches) [204.80 by 204.80 by 203.20 mm]

2.2 ACCESSORIES

- A. Fasteners:
 1. Into Wood Studs: Minimum 0.120 inch (3.05 mm) shank diameter galvanized nails or staples of sufficient length to penetrate 1 3/8 inch (35 mm) minimum into the stud.
- B. Mortar: Premixed Type N or mortar mix using components and proportions in accordance with manufacturer's masonry manufacturer's installation instruction.

2.3 MIXES

- 5. Unit Weight: Not more than 15 pcf (73 kg/m2).

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 - 6. Surface Burning Characteristics: Not more than the following when tested in accordance with UL 723:
 - a. Flame spread 25.
 - b. Smoke Development 450.
- B. Quality Control Submittals:
- 1. Test Reports: Certified test reports showing compliance with specified performance requirements and physical properties.
 - 2. Manufacturer's Instructions: Manufacturer's installation instructions.
- C. Operational Maintenance Data: Manufacturer's maintenance and cleaning instruction

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- B. Mortar: Premixed Type N or mortar mix using components and proportions in accordance with manufacturer's masonry manufacturer's installation instruction.

2.3 MIXES

- 5. Unit Weight: Not more than 15 pcf (73 kg/m2).

6. Surface Burning Characteristics: Not more than the following when tested in accordance with UL 723:

- a. Flame spread 25.
 - b. Smoke Development 450.
- B. Quality Control Submittals:

- 1. Test Reports: Certified test reports showing compliance with specified performance requirements and physical properties.
 - 2. Manufacturer's Instructions: Manufacturer's installation instructions.
- C. Operational Maintenance Data: Manufacturer's maintenance and cleaning instruction

PART 2 PRODUCTS

- 2.1 MANUFACTURED MASONRY
 - A. Manufacturer: Canyon Stone Inc.
 - B. Canyon Stone
 - 1. Contact: 550 E. 56 Highway Suite B, Olathe, Kansas 66061: Telephone (913)254-9300 Fax (913)254-9301: Website: www.canyon-stone.com
 - C. Architectural Trim:
 1. Size to be (12 inches by 12 inches by 8 inches) [204.80 by 204.80 by 203.20 mm]

2.2 ACCESSORIES

- A. Fasteners:
 1. Into Wood Studs: Minimum 0.120 inch (3.05 mm) shank diameter galvanized nails or staples of sufficient length to penetrate 1 3/8 inch (35 mm) minimum into the stud.
- B. Mortar: Premixed Type N or mortar mix using components and proportions in accordance with manufacturer's masonry manufacturer's installation instruction.

2.3 MIXES

- 5. Unit Weight: Not more than 15 pcf (73 kg/m2).

6. Surface Burning Characteristics: Not more than the following when tested in accordance with UL 723:

- a. Flame spread 25.
 - b. Smoke Development 450.
- A. Proportions: ASTM C270, Type N.
- B. Procedure: In accordance with manufactured masonry manufacturers' installation instructions.

PART 3 EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- A. Comply with manufacturers product data, including product technical bulletins, product catalog installation instructions and product carton instruction for installation.

3.2 EXAMINATION

- A. Site Verification of condition: Verify that substrate conditions, which has been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.3 PREPARATION

- A. Prepare surface using methods recommended by the manufacturer for achieving the best result for the substrate under the project condition.

3.4 CLEANING

- A. Upon completion, clean manufactured masonry in accordance with Manufacturer's recommendation.

END OF SECTION 04812

SECTION 05120 - STRUCTURAL STEEL

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 1. Structural steel.
 2. Grout.
- DEFINITIONS

1.2 REFERENCES

- 1. Test Reports: Certified test reports showing compliance with specified performance requirements and physical properties.

Pueblo, CO

PROJ. MGR.
PRO GROUP INC.
YOUR TOTAL DEVELOPMENT SOLUTION

208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

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8. Structural Steel: Elements of structural-steel frame, as classified by AISC's "Code of Standard Practice for Steel Buildings and Bridges," that support design loads.

1.2 PERFORMANCE REQUIREMENTS

A. Connections: Provide details of simple shear connections required by the Contract Documents to be selected or completed by structural-steel fabricator to withstand loads indicated and comply with other information and restrictions indicated.

1. Select and complete connections using schematic details indicated and AISC's "Manual of Steel Construction, Load and Resistance Factor Design," Volume 2, Part 9 AISC's "Manual of Steel Construction, Allowable Stress Design," Part 4.
2. Engineering Responsibility: Fabricator's responsibilities include using a qualified professional licensed engineer to prepare structural analysis data for structural-steel connections.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: Show fabrication of structural-steel components.

1. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
2. Include embedment drawings.
3. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld.
4. Indicate type, size, and length of bolts, distinguishing between shop and field bolts. Identify pretensioned and slip-critical high-strength bolted connections.
5. For structural-steel connections indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
6. Include shop drawings of metal deck as shown on the drawings.

C. Welding certificates.

D. Qualification Data: For installer, fabricator and testing agency.

1.4 QUALITY ASSURANCE

A. Fabricator Qualifications: A qualified fabricator who participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category Cdd.

B. Welding: Qualify procedures and personnel according to AWS D1.1, "Structural Welding Code--Steel."

C. Comply with applicable provisions of the following specifications and documents:

1. AISC's "Code of Standard Practice for Steel Buildings and Bridges."
2. AISC's "Specification for Structural Steel Buildings-Allowable Stress Design and Plastic Design Load and Resistance Factor Design Specification for Structural Steel Buildings."
3. AISC's "Specification for Allowable Stress Design of Single-Angle Members Specification for Load and Resistance Factor Design of Single-Angle Members."
4. RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."

PART 2 - PRODUCTS

2.1 STRUCTURAL-STEEL MATERIALS

A. W-Shapes: ASTM A 992/A 992M, Grade 50.

B. Channels, Angles, M, S-Shapes: ASTM A 36/A 36M, Grade 36.

C. Plate and Bar: ASTM A 36/A 36M, Grade 36.

D. Welding Electrodes: Comply with AWS requirements.

2.2 BOLTS, CONNECTORS, AND ANCHORS

A. High-Strength Bolts, Nuts, and Washers: ASTM A 325, Type 1, heavy hex steel structural bolts;

1. Finish: Plain

2.3 PRIMER

A. Primer: Fabricator's standard lead- and chromate-free, nonasphaltic, rust-inhibiting primer.

B. Galvanizing Repair Paint: MPI#18, MPI#19, or SSPC-Paint 20 ASTM A 780.

2.4 GROUT

A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107, factory-packaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

2.5 FABRICATION

A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate according to AISC's "Code of Standard Practice for Steel Buildings and Bridges" and AISC's "Specification for Structural Steel Buildings-Allowable Stress Design and Plastic Design Load and Resistance Factor Design Specification for Structural Steel Buildings."

END OF SECTION 05120

and roughen surfaces prior to setting base and bearing plates. Clean bottom surface of base and bearing plates.

C. Do not use thermal cutting during erection unless approved by Architect. Finish thermally cut sections within smoothness limits in AWS D1.1.

D. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.

3.2 FIELD CONNECTIONS

A. High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.

1. Joint Type: Snug Tight.

B. Weld Connections: Comply with AWS D1.1 for welding procedure specifications, tolerances, appearance, and quality of welds and for methods used in correcting welding work.

3.3 REPAIRS AND PROTECTION

A. Repair damaged galvanized coatings on galvanized items with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.

B. Touchup Painting: After installation, promptly clean, prepare, and prime or reprime field connections, rust spots, and abraded surfaces of prime-painted joists and accessories, bearing plates, and abutting structural steel.

END OF SECTION 05120

SECTION 05500 - METAL FABRICATIONS

PART 1- GENERAL

1.1 SUMMARY

A. Section Includes:

1. Rough Hardware
 2. Loose Bearing and Leveling Plates
 3. Loose Steel Lintels
 4. Ladders
 - a. Elevator Pit Ladder
 5. Support Angles for Elevator Door Sills
 6. Pipe Bollards
 7. Laundry Trench Grate
 8. Miscellaneous Metal Trim
9. Steel Framing and Supports for Applications where framing and supports are not specified in other Sections
 10. Elevator Hoist Beam
 11. Pipe Guard Rails
 12. Alternating Tread Stair

1.2 SUBMITTALS

A. Shop Drawings detailing fabrication and erection of each metal fabrication indicated. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide templates for anchors and bolts specified for installation under other sections.

PART 2 - PRODUCTS

2.1 FERROUS METALS

A. Metal Surfaces, General: For metal fabrications exposed to view upon completion of the Work, provide materials selected for their surface flatness, smoothness, and freedom from surface blemishes. Do not use materials whose exposed surfaces exhibit pitting, seam marks, roller marks, rolled trade names, roughness, and, for steel sheet, variations in flatness exceeding those permitted by reference standards for stretcher-leveled sheet.

B. Steel Plates, Shapes, and Bars: ASTM A 36

C. Steel Pipe: ASTM A53

1. Black finish, unless otherwise indicated.
2. Galvanized finish for exterior installations, unless shown to receive special coatings.
3. Type E, OR S, Grade B, Fy = 35 KSI, unless otherwise indicated, or another weight, type, and grade required by structural loads.

D. Brackets, Flanges and Anchors: Cast or formed metal of the same type material and finish as supported rails, unless otherwise indicated.

E. Concrete Inserts: Threaded or wedge type; galvanized ferrous castings, either malleable iron, ASTM A 47, or cast steel, ASTM A 27. Provide bolts, washers, and shims as required, hot-dip galvanized per ASTM A 153.

F. Welding Rods: Select in accordance with AWS Specifications for the metal alloy to be welded.

2.2 FASTENERS

A. General: Provide zinc-coated fasteners for exterior use or where built into exterior walls. Select fasteners for the type, grade, and class required for each application and complying with applicable standards.

END OF SECTION 05500

2.3 ROUGH HARDWARE

A. Furnish bent or otherwise custom fabricated bolts, plates, anchors, hangers, dowels, and other miscellaneous steel and iron shapes as required for framing and supporting woodwork, and for anchoring or securing woodwork to concrete or other structures. Fabricate items to sizes, shapes, and dimensions required. Furnish malleable-iron washers for heads and nuts which bear on wood structural connections; elsewhere, furnish steel washers.

2.4 STEEL LADDERS AND ALTERNATING TREAD DEVICE TO ROOF

A. General: Fabricate ladders for the locations shown, with dimensions, spacings, and anchorages as indicated. Comply with requirements of ANSI A14.3.

2.5 LOOSE BEARING AND LEVELING PLATES

A. Provide loose bearing and leveling plates for steel items bearing on masonry or concrete construction, made flat, free from warps or twists, and of required thickness and bearing area. Drill plates to receive anchor bolts and for grouting as required.

2.6 LOOSE STEEL LINTELS

A. Fabricate loose structural steel lintels from steel angles and shapes of size indicated for openings and recesses in masonry walls and partitions at locations indicated. Weld adjoining members together to form a single unit where indicated.

B. Galvanize loose steel lintels located in exterior walls.

C. Size loose lintels for equal bearing of one inch per foot of clear span but not less than 8 inches bearing at each side of openings, if not indicated on Drawings.

2.7 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports for applications indicated or which are not a part of structural steel framework, as required to complete work.

B. Fabricate units to sizes, shapes, and profiles indicated and required to receive adjacent other construction retained by framing and supports. Fabricate from structural steel shapes, plates, and steel bars of welded construction using mitered joints for field connection. Cut, drill, and tap units to receive hardware, hangers, and similar items.

1. Equip units with integrally welded anchors for casting into concrete or building into masonry. Furnish inserts if units must be installed after concrete is placed. Spacing of anchors shall not be more than 24" o.c.

2.8 PIPE BOLLARDS

A. ASTM A153 galvanized schedule 40 steel pipe with concrete fill, as detailed on Drawings. Provide smooth radius for concrete top to prevent accumulation of rainwater. Provide field

painted finish.

2.9 LAUNDRY TRENCH GRATE

A. Manufacturers:

1. "Kordex" No. 1300; International Grating, Inc. (800-231-0115)
2. "Standard", 1" x 1" x 4"; Fibergate Composite Structures (603-472-9781)
3. "Protectolite, Type 1"; McNichols Co. (800-237-3820)

B. Frame: Construct perimeter frame using 1" x 3" x 3/16" seat angle welded to 3" x 3" x 3/16" support steel angle to form seat for trench grate. Weld corners and grind smooth. Grate to be removable.

2.10 MISCELLANEOUS STEEL TRIM

A. Provide shapes and sizes indicated for profiles shown. Unless otherwise indicated, fabricate units from structural steel shapes, plates, and steel bars, with continuously welded joints and smooth exposed edges. Use concealed field splices wherever possible. Provide cutouts, fittings, and anchorages as required for coordination of assembly and installation with other work.

2.11 ALTERNATING TREAD STAIR

A. Provide and install alternating tread stair per 2015 IBC 1009.3 stairway to roof.

B. Manufacturer:

1. Lapeyre Stair

END OF SECTION 05500

SECTION 06100 - ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Framing with dimension lumber.
2. Framing with engineered wood products.
3. Rooftop equipment bases and support curbs.
4. Wood blocking, cants, and nailers.
5. Wood furring and grounds.
6. Wood sleepers.
7. Plywood backing panels.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product.

1. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements.

1.3 INFORMATIONAL SUBMITTALS

A. Evaluation Reports: For the following, from ICC-ES:

1. Wood-preservation-treated wood.
2. Fire-retardant-treated wood.
3. Engineered wood products.
4. Power-driven fasteners.
5. Powder-actuated fasteners.
6. Expansion anchors.
7. Metal framing anchors.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the AISC Board of Review. Provide lumber graded by an agency certified by the AISC Board of Review to inspect and grade lumber under the rules indicated.

1. Factory mark each piece of lumber with grade stamp of grading agency.
 2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of each piece or omit grade stamp and provide certificates of grade compliance issued by grading agency.
 3. Provide dressed lumber, S4S, unless otherwise indicated.
- B. Maximum Moisture Content of Lumber: 19 percent for 2-inch nominal (38-mm actual) thickness.

C. Engineered Wood Products: Provide engineered wood products acceptable to authorities having jurisdiction and for which current model code research or evaluation reports exist that show compliance with building code in effect for Project.

1. Allowable Design Stresses: Provide engineered wood products with allowable design stresses, as published by manufacturer, that meet or exceed those indicated.

2.2 WOOD-PRESERVATIVE-TREATED LUMBER

A. Preservative Treatment by Pressure Process: AWWA U1; Use Category UC2 for interior construction

END OF SECTION 06100

not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.

1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.

B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or that does not comply with requirements for untreated material.

C. Mark lumber with treatment quality mark of an inspection agency approved by the AISC Board of Review.

D. Application: Treat items indicated on Drawings, and the following:

1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
2. Wood sills, sleepers, blocking, and similar concealed members in contact with masonry or concrete.
3. Wood floor plates that are installed over concrete slabs-on-grade.

2.3 FIRE-RETARDANT-TREATED MATERIALS

A. General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this article, that are acceptable to authorities having jurisdiction, and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.

B. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Products with a flame spread index of 25 or less when tested according to ASTM E 84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2 m) beyond the centerline of the burners at any time during the test.

1. Exterior Type: Treated materials shall comply with requirements specified above for fire-retardant-treated lumber and plywood by pressure process after being subjected to accelerated weathering according to ASTM D 2898. Use for exterior locations and where indicated.

2. Interior Type A: Treated materials shall have a moisture content of 28 percent or less when tested according to ASTM D 3201 at 92 percent relative humidity. Use where exterior type is not indicated.

C. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Kiln-dry plywood after treatment to a maximum moisture content of 15 percent.

D. Identify fire-retardant-treated wood with appropriate classification marking of qualified testing agency.

E. Application: Treat items indicated on Drawings, and the following:

1. Concealed blocking.

END OF SECTION 06100

not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.

1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.

B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or that does not comply with requirements for untreated material.

C. Mark lumber with treatment quality mark of an inspection agency approved by the AISC Board of Review.

D. Application: Treat items indicated on Drawings, and the following:

1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
2. Wood sills, sleepers, blocking, and similar concealed members in contact with masonry or concrete.
3. Wood floor plates that are installed over concrete slabs-on-grade.

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A. General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this article, that are acceptable to authorities having jurisdiction, and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.

B. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Products with a flame spread index of 25 or less when tested according to ASTM E 84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2 m) beyond the centerline of the burners at any time during the test.

1. Exterior Type: Treated materials shall comply with requirements specified above for fire-retardant-treated lumber and plywood by pressure process after being subjected to accelerated weathering according to ASTM D 2898. Use for exterior locations and where indicated.

2. Interior Type A: Treated materials shall have a moisture content of 28 percent or less when tested according to ASTM D 3201 at 92 percent relative humidity. Use where exterior type is not indicated.

C. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Kiln-dry plywood after treatment to a maximum moisture content of 15 percent.

D. Identify fire-retardant-treated wood with appropriate classification marking of qualified testing agency.

E. Application: Treat items indicated on Drawings, and the following:

1. Concealed blocking.

END OF SECTION 06100

2. Framing for non-load-bearing partitions.

3. Framing for non-load-bearing exterior walls.

4. Plywood backing panels.

2.4 DIMENSION LUMBER FRAMING

A. Non-Load-Bearing Interior Partitions: Standard, Stud, or No. 3 grade.

1. Application: Interior partitions not indicated as load-bearing.

2. Species:
 - a. Northern species; NLGA.
 - b. Western woods; WCLIB or WWP.

B. Framing Other Than Non-Load-Bearing Interior Partitions: No. 2 grade.

1. Application: Framing other than interior partitions not indicated as load-bearing.
2. Species:
 - a. Hem-fir (north); NLGA.
 - b. Douglas fir-larch; WCLIB or WWP.
 - c. Spruce-pine-fir; NLGA.
 - d. Hem-fir; WCLIB or WWP.
 - e. Douglas fir-larch (north); NLGA.

C. Exposed Framing: Provide material hand-selected for uniformity of appearance and freedom from characteristics, on exposed surfaces and edges, that would impair finish appearance, including decay, honeycomb, knot-holes, shake, splits, torn grain, and wane.

2.5 ENGINEERED WOOD PRODUCTS

A. Engineered Wood Products, General: Products shall contain no urea formaldehyde. Laminated-Veneer Lumber: Structural composite lumber made from wood veneers with grain primarily parallel to member lengths, evaluated and monitored according to ASTM D 5456 and manufactured with an exterior-type adhesive complying with ASTM D 2559.

1. Extreme Fiber Stress in Bending, Edgewise: 2900 psi (20.0 MPa) for 12-inch nominal (286-mm actual) depth members.
2. Modulus of Elasticity, Edgewise: 2,000,000 psi (13,700 MPa).

B. Wood I-joists: Prefabricated units, I-shaped in cross section, made with solid or structural composite lumber flanges and wood-based structural panel webs, let into and bonded to flanges. Provide units complying with material requirements of and with structural capacities established and monitored according to ASTM D 5055.

1. Web Material: Either oriented strand board or plywood, complying with DOC PS 1 or DOC PS 2, Exposure 1.
2. Structural Properties: Provide units with depths and design values not less than those

indicated.

3. Provide units complying with APA PRI-400, factory marked with APA trademark indicating nominal joist depth, joist class, span ratings, mill identification, and compliance with APA standard.

C. Rim Boards: Product designed to be used as a load-bearing member and to brace wood I-joists at bearing ends, complying with research/evaluation report for I-joists.

1. Material: All-veneer product.
2. Thickness: 1-1/8 inches (28 mm).
3. Provide performance-rated product complying with APA PRR-401, rim board grade, factory marked with APA trademark indicating thickness, grade, and compliance with APA standard.

2.6 MISCELLANEOUS LUMBER

A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:

1. Blocking.
2. Nailers.
3. Rooftop equipment bases and support curbs.
4. Cants.
5. Furring.
6. Grounds.

B. For items of dimension lumber size, provide Standard, Stud, or No. 3 grade lumber of any species.

C. For concealed boards, provide lumber with 19 percent maximum moisture content and any of the following species and grades:

1. Northern species; No. 3 Common grade; NLGA.
2. Western woods; Standard or No. 3 Common grade; WCLIB or WWP.

2.7 PLYWOOD BACKING PANELS

A. Equipment Backing Panels: DOC PS 1, fire-retardant treated, in thickness indicated or, if not indicated, not less than 3/4-inch (19-mm) nominal thickness.

2.8 FASTENERS

A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.

B. Power-Driven Fasteners: NES NER-272.

C. Bolts: Steel bolts complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); with ASTM A 563 (ASTM A 563M) hex nuts and, where indicated, flat washers.

2.9 METAL FRAMING ANCHORS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Cleveland Steel Specialty Co.
2. KC Metals Products, Inc.
3. Phoenix Metal Products, Inc.
4. Simpson Strong-Tie Co., Inc.
5. USP Structural Connectors.

B. Allowable Design Loads: Provide products with allowable design loads, as published by manufacturer, that meet or exceed those of products of manufacturers listed. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.

C. Galvanized-Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 (Z180) coating designation.

1. Use for interior locations unless otherwise indicated.

2.10 MISCELLANEOUS MATERIALS

A. Sill-Sealer Gaskets: Closed-cell neoprene foam, 1/4 inch (6.4 mm) thick, selected from manufacturer's standard widths to suit width of sill members indicated.

B. Flexible Flashing: Composite, self-adhesive, flashing product consisting of a pliable, butyl rubbercompound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than 0.025 inch (0.6 mm).

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.

B. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.

C. Framing with Engineered Wood Products: Install engineered wood products to comply with manufacturer's written instructions.

D. Install fire-retardant treated plywood backing panels with classification marking of testing agency exposed to view.

E. Metal Framing Anchors: Install metal framing anchors to comply with manufacturer's written instructions. Install fasteners through each fastener hole.

F. Do not splice structural members between supports unless otherwise indicated.

G. Comply with AWWA M4 for applying field treatment to cut surfaces of preservative-treated lumber.

- B. Metal Framing Anchors: Provide framing anchors made from hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 coating designation.

END OF SECTION 06176

SECTION 06192 - PREFABRICATED WOOD TRUSSES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - Trusses fabricated from dimension lumber.
 - Plate connectors.
 - Engineering trusses.

1.2 SYSTEM DESCRIPTION

- A. Design trusses to support dead loads and to withstand live loads indicated on the drawings.
- B. See structural drawings for additional requirements.

1.3 SUBMITTALS

- A. Shop Drawings: Submit detailed drawings for fabrication and erection of trusses including plans, elevations, and large scale details of special connections, joining, and accessories.
 - Include mark, number, location, and spacing of trusses and bridging.
 - Show dimensions, applied loadings, reactions, and permanent bracing.
 - Provide templates or location drawings of anchors or bearing accessories to be installed as work of other sections.
- B. Shop drawings shall be sealed by a professional engineer registered in the state in which the project is located.

1.4 QUALITY ASSURANCE

- A. Lumber Quality:
 - Comply with NBS PS 20 and applicable grading rules.
 - Grade Stamp: Provide factory marking on each lumber member showing type, grade, mill, and grading agency.

PART 2 - PRODUCTS

2.1 TRUSS CONNECTOR PLATES

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- A. Connector Plates: Fabricate connector plates from sheet metal meeting the following requirements:
 - Structural Properties: ASTM A 446, any grade.
 - Finish: Hot-dip galvanized; ASTM A 525, G90, minimum.
 - Thickness: As required by truss design but not less than 0.036 inch (21 gage).

2.2 LUMBER

- A. General:
 - Surfacing: Dressed, S4S.
 - Moisture Content: 19 percent maximum at time of dressing and shipment.
- B. Truss Members: Provide lumber of species and grade as determined by truss connector plate manufacturer's engineering of trusses.

2.3 FASTENERS AND ANCHORAGES

- A. Framing Anchors and Supports: Prefabricated, formed steel units; galvanized finish, ASTM A 525, G60, unless otherwise indicated; type and size as required; approved by applicable codes.
- B. Fasteners: Provide size, type, materials, and finish as indicated and as recommended by referenced standards.
 - Comply with applicable federal standards for each type of fastener.

- C. Finishes:
 - Nails: Plain or coated.
 - Threaded Steel Fasteners: Zinc or cadmium coating.

2.4 WOOD TREATMENT BY PRESSURE PROCESS

- A. General: Treat lumber in accordance with referenced standards for preparation, treatment, retention of treatment chemicals, drying and handling.
 - Dry (redry) lumber after treatment to moisture content of 19 percent of less.
 - Inspect each piece of treated wood before use and discard damaged or defective pieces.
- B. Preservative Treatment: AWPB LP-2, oxides for above-ground use.

2.5 FABRICATION

- A. Shop fabricate trusses to comply with TPI QST "Quality Standard for Metal Plate Connected Wood Trusses" and to fulfill with design requirements.
- B. Press connectors into both sides of joint simultaneously.

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PART 3 - EXECUTION

3.1 INSTALLATION

- A. Lift trusses at designated lifting points only.
- B. Install trusses in accordance with manufacturer's instructions for erection.
 - Truss Spacing: As indicated on the drawings.
- C. Install trusses true to line and level, with webs plumb, and with ends accurately located.

END OF SECTION 06192

SECTION 06200 - FINISH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - Wood Millwork
 - Interior Standing and Running Trim
 - Shelving

1.2 REFERENCES

- A. PS 1- Softwood Plywood
- B. PS 58 Basic Hardwood
- C. NFPA National Design Specification for Wood Construction.
- D. AWI Quality Standards

1.3 SUBMITTALS

- A. Submit Product Data and Shop Drawings indicating component profiles and fastening and joining details.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Lumber standards: Comply with DOC PS 20, "American Softwood Lumber Standard," for lumber and with applicable grading rules of inspection agencies certified by American Lumber Standards Committee Board of Review.
- B. Softwood Plywood: Comply with DOC PS 1, "U.S. Product Standard for Construction and

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Industrial Plywood."

C. Hardwood Plywood: Comply with HPVA HP-1, "Interim Voluntary Standard for Hardwood and Decorative Plywood."

2.2 INTERIOR STANDING AND RUNNING TRIM

A. Hardwood Lumber: PS 58; Premium Grade in accordance with AWI; maximum moisture content of 15 percent.

- Wood for semi-exposed and painted interior finish carpentry except as otherwise specified or indicated shall be AWI Premium Grade, plain sliced, Select White Birch, Lumber Grade 1.

2.3 MISCELLANEOUS MATERIALS

A. Fasteners and Anchorages: Provide nails, screws, and other anchoring devices of the type, size, material, and finish required for application indicated to provide secure attachment, concealed where possible, and complying with applicable Federal Specifications. Provide in sufficient length to penetrate minimum of 1-1/2 inches into substrate, unless otherwise recommended by manufacturer.

2.4 SHEET MATERIALS

A. Shelving: 3/4" thick by width shown on Drawings, Hardwood Plywood: PS 51; custom grade in accordance with AWI; core material of veneer; type of bond recommended for application; with minimum 3/4" x 1-3/4" hardwood nosing.

2.5 FIRE RETARDANT TREATED (FRT) LUMBER

- A. Manufacturers:
 - Hoover Treated Wood Products (800-832-0240)
 - Interior Wood: Pyro-Guard
 - Exterior Wood: Exterior Fire-X
- B. Flamespread and smoke developed ratings of 25 or less by ASTM E84, with no sign of progressive combustion when test is extended to 30 minutes.
- C. Fire retardant chemicals Environmental Protection Agency (EPA) registered and accepted.

2.6 INTERIOR FIRE RETARDANT TREATED WOOD

- A. All lumber and plywood designated to be interior fire retardant treated shall be pressure impregnated and shall have a flame spread rating of 25 or less when tested with ASTM E-84. Each piece shall be manufactured under Underwriters Laboratories independent third party follow-up inspection service. Each piece shall be kiln dried after treatment and labeled KDAT.
- B. Fire retardant lumber and plywood to be used in structural applications shall follow the strength tables listed in NER 457. Treated wood shall not be used in areas exposed to direct wetting or regular condensation.
- C. Do not rip or mill fire retardant lumber. End cuts, drilling holes and joining cuts are permitted. Plywood may be cut in any direction.
- D. Exposed fire treated wood may be painted or stained.

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END OF SECTION 06200

SECTION 06400 - ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - Plastic Laminate Countertops, Aprons, and Backsplashes
 - Pre-manufactured Casework
 - Custom Cabinet Units
 - Solid Surface Countertops
- B. Related Documents:
 - Drawings and General Provisions of Contract, including General and Supplementary Conditions. Specification Sections, apply to work of this Section.

1.2 REFERENCES

- A. FS MM-L-736 - Lumber, Hardwood
- B. FS MM/A-A-110 - Adhesive, Contact
- C. NEMA LD3 - High Pressure Decorative Laminates
- D. PS 1 - Construction and Industrial Plywood
- E. PS 20 - American Softwood Lumber Standard
- F. PS 51 - Hardwood and Decorative Plywood
- G. PS 58 - Basic Hardwood

1.3 SUBMITTALS

- A. Submit Shop Drawings and product data. Include materials, component profiles, fastening methods, assembly methods, joint details, accessory listings, and schedule of finishes.

1.4 QUALITY ASSURANCE

- A. Perform work to (custom) quality in accordance with "Quality Standards" of the Architectural Woodwork Institute (AWI).
- B. Plastic Laminate Materials shall comply with NEMA LD-3 as follows:
 - GP 5D: Horizontal grade

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- CL 20: Cabinet liner
- BK 20: Backing sheet
- PF 40: Post Forming Grade
- FR 50: Horizontal application, fire retardant material
- FR 32: Vertical application, fire retardant material

1.5 PREFERRED SUPPLIER:

- A. Approved by Owner.

PART 2 - PRODUCTS

2.1 PLASTIC LAMINATE COUNTERTOPS, APRONS, BACKSPLASHES

- A. Plastic Laminate: Shall be standard grade, 1/16" thick, general purpose material complying with current NEMA Standard and LD-3. Comply with ANSI A161.2.
- B. Core:
 - Shall be Particleboard, complying with ANSI A208.1, 45-lb. density, minimum 3/4" thick fire retardant type in accordance with ASTM E84.
- C. Adhesives:
 - Wood Glue: Waterproof types as recommended by AWI standards for the particular application.
- D. Where shown, all countertops shall have 3/4" x 4" high separate matching backsplash and matching aprons.

2.2 PREMANUFACTURED CASEWORK

- A. Finish and Style:
 - Style: See drawings.
 - Color: Verify with Owner.
- B. Manufacturers:
 - Enterprise
 - Suss Woodcraft International
 - Merrillat Industries, Inc.
 - Quality Cabinets
 - Grandview Products Co. Inc.
- C. Materials:
 - Solid hardwood: Birch or Maple.
 - Veneered components: To match hardwood selected above.
 - Particleboard: Minimum 45 pound per cubic foot; ANSI A208.1.
 - Hardboard: Tempered, ANSI 135.4.

5. Facing: 80 gram melamine resistant to water and typical cleaners.

D. CONSTRUCTION:

- 1. Exposed Ends: 1/2"; rabbit ends to receive tops and bottom. Rabbit base cabinet end to receive floor and shelf. Doors and Drawer Heads: Fabricate door as five-piece type with plywood panel in rabbit. Tenon and cope all joints; Back level profile. Drawer Heads: Fabricate from solid KD hardwood stock; 3/4" thick with back level profile.
- 2. Drawer Construction: Provide drawer construction meeting AWI and WIC standards as applicable to the facility location. Provide minimum 3/4" drawer bottoms fabricated from tempered hardboard, fully rabbeted into drawer sides. Drawer sides and ends must be glued and power nailed at all joints. Screw drawer into drawer face.
- 3. Wall cabinet and base cabinet shelving: 5/8" 100 gram white melamine with front edge smooth, fully adjustable. Fabricate base shelf to half-depth.
- 4. Wall cabinet top and bottom: Not less than 5/8" 100 gram melamine.
- 5. Base Cabinet Floors: Not less than 5/8" 100 gram melamine. Let into sides and face frame; glue and power nail all joints; set rear of floor on supporting member and glue and fasten.
- 6. Cabinet backs: 1/8" standard hardboard, painted white.
- 7. Countertops and Edging: 3/4" B-C particleboard (except at sinks, use exterior grade plywood only) with plastic laminate bonded to tops; provide self-edge and backsplash. Toeboard: Minimum 1/2" x 3-1/2" solid wood base, extend from floor to the cabinet bottom and cover with black vertical grade plastic laminate finish.

E. Accessories and Fasteners:

- Provide nails, screws, and adhesives recommended by AWI "Custom" grade fabrication standards.

F. Hardware:

- 1. Doors: Concealed hinges, self closing.
- 2. Drawers: Side-mounted, 100 lb. load capacity, epoxy coated, self-closing.

2.3 STAIR HANDRAILS

- A. Handrails: Red Oak, FAS, See drawings.
 - Stain: Transparent.
 - Brackets: See drawings.

2.4 WOOD CASEWORK, TRANSPARENT FINISH

- A. Hardwood Plywood: ANSI/HPMA HP hardwood and decorative plywood, Good Grade (1) or better, of thickness, species, cut, and core construction indicated.
- B. Hardwood Lumber: Clear, dry, sound, and free of defects selected from First Grade lumber (NHLA), of species indicated.

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C. Hardboard: ANSI A135.4, Class 1, tempered.

D. Solid Lumber: Dry, sound, selected to eliminate appearance defects, of any species of hardwood or softwood with color and grain characteristics similar exposed portions.

E. Plywood Face Veneer: Same species as exposed lumber, unless otherwise indicated, selected for grain and color compatible with exposed solid lumber, no defects. Edgeband exposed edges with solid wood of same species as face veneer.

- Maple or birch, custom grade.

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F. Style of face construction for base, wall, and full-height units, if any, with drawer fronts, doors, and fixed panels as follows:

- Panel, concealing face frames of cabinet body.
- Panel Door Construction: Lumber core plywood, 5-ply with hardwood face veneer and crossbanding.
- Drawer Front Construction: Same as door or, where standard with manufacturer, solid or glued-up lumber, not less than 1/2" thick.

G. Construction for face frame style casework as follows:

- Rails and Stiles: Not less than 1 inch by 1-5/8 inch solid lumber with glued mortise and tendon joints.
- Exposed Ends: Not less than 1/2 inch thick, medium-density particle board core with exterior veneer to match door and drawer fronts and not less than 4-mil vinyl laminate on interior surfaces. Connect to stile with pressure-glued tongue and plow joint and supplement by concealed mechanical fasteners.
- Unexposed Ends: Not less than 1/2 inch thick, medium-density particle board with not less than 4-mil prefinished vinyl laminate on interior surfaces. Attach to front frame in same manner as exposed ends.
- Back, Top, and Bottom Rails: Not less than 3/4 inch by 3 inch solid lumber, machined to interlock with end panels, and rabbeted to receive top and bottom panels; with back rails secured under pressure with glue and mechanical fastening devices.
- Shelving: Not less than 5/8 inch thick particle board core plywood or 1/2 inch thick medium-density particle board prefinished with not less than 4-mil vinyl laminate on top, bottom, and exposed (front) edges.

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H. Construction for wall units with doors and fixed panels as follows:

- Tops and Bottoms: Not less than 1/2 inch thick particle board or 3/8 inch thick hardwood plywood, fully supported by and secured in rabbets in end panels, front frame, and back rail.
- Backs: Not less than 1/8 inch hardboard or 3/16 inch plywood fastened to machined rear edge of ends and to top and bottom hanger rails.

I. Construction for base units with doors and fixed panels as follows:

- Front Frame Drawer Rails: Not less than 1 inch by 1-1/4 inch lumber mortised and fastened into face frame.
- Bottoms: Not less than 1/2 inch thick particle board with 4-mil vinyl laminate finish or

3/8 inch thick, 5-ply veneer core plywood, fully supported by and secured in rabbets in end panels, front frame, and back bottom rail.

J. Construction for drawer units as follows:

- Drawer Body: Not less than 3/8 inch thick vinyl faced particle board subfront, back, and sides. Provide box-type construction with subfront and back rabbeted into sides and secured with glue and mechanical fasteners. Exposed fronts fastened to subfront with mounting screws from interior of body. Drawer bottom of not less than 1/4 inch thick hardboard, set into rabbets in back, sides, and front.

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K. Millwork Hardware (Hardware finish shall be approved by Owner)

- Manufacturers:
 - Corbin Russwin Architectural Hardware (800-543-3658)
 - Epco Engineered Products Co. (810-767-2050)
 - Garcy Corp., (708-345-2500)
 - Grant Hardware, Hetchich America LP (800-777-1772)
 - H.B. Wvs. (203-294-4837)
 - Knapc & Vogt Manufacturing Co. (800-253-1561) (KV)
 - Stanley Hardware, Div. of the Stanley Works (800-337-4393)
 - Grass America (800-334-3512)

END OF SECTION 06400

SECTION 06620 - QUARTZ

PART 1 - GENERAL

1.1 SUMMARY

- A. The following products are to be:
 - Vanity tops with cutout for undermount bowls and backsplashes
 - Kitchen countertops and backsplashes.
 - Thresholds
 - Window sills

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1.2 REFERENCES

- A. Standards of the following as referenced:
 - American National Standards Institute (ANSI).
 - Environmental Protection Agency (EPA).
 - National Association of Home Builders, Research Foundation, Inc. (NAHB/RF).

1.3 DEFINITIONS

- A. Description:
 - A naturally formed material with colors and grain pattern running all the way through the material.

1.4 SUBMITTALS

- A. Shop Drawings:
 - Submit top views, elevations and sections (as needed). Indicate dimensions, material thickness, location and sizes of cutouts, anchorage provisions and attachment methods. Indicate coordination requirements with adjacent and interfacing work.

1.5 PROJECT CONDITIONS

- A. Field Measurements:
 - Shop drawings are to be filed verified by Contractor to ensure proper fit of materials.

1.6 WARRANTY

- A. Manufacturer's standard ten (10) year limited warranty on defective materials.

PART 2 - PRODUCTS

2.1 VANITY TOPS, KITCHEN COUNTERTOPS, COUNTERTOPS, THRESHOLDS, WINDOW SILLS, BACKSPASH AND ENDSPLASH

- A. FABRICATION:
 - Quartz tops to have drip less edge at typical and accessible rooms.
 - 4" backsplash, 4" endsplash
 - Backsplash, endsplash and windowsills: 1/2" (2 cm) thick with eased edge.
 - Vanity tops, kitchen countertops, and countertops: 1-1/4" (3 cm) thick, eased edge at guest bath, bullnose resistant silicone at front desk.
 - Thickness: Manufacturers standards
 - Cutouts for Undermount Bowls: Cutout in top to receive undermounted bowl. Insert hardware as needed into top during casting process for bowl installation. Provide other necessary hardware to attach bowl to top.
 - Aprons to be manufactured of same material and color as top.

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- 6. Tops shall have factory drilled holes for faucets and other through counter items as required to accommodate fixtures, wires and other items.
- 7. Refer to architectural drawings for the locations and extent of countertops thresholds and window sills.

B. Fabrication:

- 1. Use materials, methods and procedures that will result in proper texture and finish.
- Fabricate to required profiles and dimensions. To the greatest extent possible, fabricate each unit continuous, without joints and to minimize on-site cutting or other modifications.
- All surfaces to be uniform. All edges to be eased and sanded smooth.

C. Lavatory Bowls:

- 1. American Standard 0610 with Moen Faucet 6400 (Guestrooms)
- 2. Toto T1191(9) with Moen Faucet 6400 (ADA)
- 3. American Standard Q355-012 with Moen Faucet 6400 (Public Baths)

D. Requirements For Thresholds:

- 1. Supply threshold at guestroom entry doors.
- Fabricate as drawn.
- Provide in lengths that can be cut to fit on job.
- Accessibility Requirements: The ADA standard for accessible design.
- Color: Selected by owner.

E. Requirements For Window Sills:

- 1. Supply sills at each window.
- Fabricate to fit window opening.
- Provide in lengths that can be cut to fit on job.
- Color: Selected by owner.

F. Adhesives and Sealants:

- 1. To adhere panels to gypsum board use:
 - LN-601 Liquid Nails
 - Nail-No-More
 - Or other as acceptable to Construction Manager.

2. To seal interior seams a 100% mildew resistant silicone is required.

- 1. Shurski - 100% Silicone Caulk (Gibson-Homans)
- 2. Dow Corning Corp., #786 Mildew Resistant Silicone Sealant
- 3. Or other as acceptable to Construction Manager.
- 4. Siliconized caulk is NOT acceptable.

3. To caulk quartz to adjoining gypsum board, wallpaper or paint, use mildew resistant acrylic caulk sealant:

- 1. Phenoseal Acrylic Caulk (Gibson-Homans)
- 2. Or other as acceptable to Architect.

3.2 INSTALLATION - VANITY AND COUNTER TOPS

- A. Provide continuous, structural, wooden cleats at back and side walls.

3.3 INSTALLATION - THRESHOLDS AND WINDOW SILLS

- A. Thresholds and sills to be set in a continuous bed of sealant that is compatible with the units and substrate material.

3.4 CLEANING

- A. Contractor to protect all finished work until final acceptance by Owner.
- B. Clean installed units not more than 48 hours prior to Date of Substantial Completion. Repair or replace damaged or stained cast marble work.

3.5 MAINTENANCE STOCK

- A. Extra Material (Thresholds and Window Sills): A minimum of five 5% waste factor.

END OF SECTION 06620

SECTION 07200 - THERMAL PROTECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - L77 Fiberglass Unbonded Loose fill Insulation
 - Batt insulation
 - Foundation Wall and Under Slab Insulation

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- 4. Sound Attenuation Insulation
- 5. Spray Polyurethane Foam Insulation
- 6. Vapor Retarder
- 7. Air-Infiltration Barrier
- 8. Pro Pink Fabric

1.2 SUBMITTALS

- A. Certified Test Reports: With product data, submit copies of certified test reports showing compliance with specified performance values, including R-values (aged values for plastic insulations), densities, compression strengths, fire performance characteristics, perm ratings, water absorption ratings and similar properties.

instructions. Use type of adhesive recommended by manufacturer of insulation.

- B. Protect top surface of horizontal insulation (from damage during concrete work) by application of protection board.

3.3 PROTECTION

- A. General: Protect installed insulation and vapor retarders from harmful weather exposures and from possible physical abuses, where possible by non-delayed installation of concealing work or, where that is not possible, by temporary covering or enclosure.

PART 4 - SCHEDULES

4.1 SCHEDULES

- A. Wall Insulation: R=19 roll, batt fiberglass insulation. Completely fill void to thickness of wall to STC requirements required.
- B. Acoustic Insulation in Walls: Unfaced, batt fiberglass insulation friction fit, completely fill void to thickness of wall to STC requirements required.
- C. Acoustic Insulation in Floor/Ceiling assemblies: Faced or Unfaced batt fiberglass insulation to meet STC-50.
- D. Blown in Insulation
- E. Block Insulation
- F. Rigid Board Insulation in Foundation Perimeter: R=8.5

END OF SECTION 07200

SECTION 07240 - EXTERIOR INSULATION AND FINISH SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. The Exterior Insulation and Finish Coating Systems Application as described and specified herein.
 - 2. Direct Applied Finish Systems

1.2 DEFINITIONS

- A. Exterior Insulation and Finish System: Exterior assembly comprised of rigid insulation,

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Adhesives, Base Coat, Reinforcing Mesh, and Finish Card.

- B. Class PB Systems: A class of EIFS where the base coat varies in thickness depending upon the number of layers or thickness of Reinforcing Mesh. The reinforcing material is glass fiber mesh, which is embedded into the Base Coat at the time of installation. The Base Coat shall be applied so as to achieve Reinforcing Mesh embedment with no Reinforcing Mesh color visible, nominal 1.5 mm (1/16"). Protective Finish Coats, or various thicknesses, in a variety of textures and colors, are applied over the Base Coat.
- C. Air and moisture barrier: A wall cladding design with an exterior surface for primary weather protection, which incorporates an inner secondary Air/Weather Barrier to accommodate incidental moisture and direct it to the exterior.

1.3 SYSTEM DESCRIPTION

- A. Design Requirements
 - 1. Polymer-based protective coating 100% pure acrylic resin based materials. No materials using non-acrylic resins in their formulas will be accepted.
 - 2. Exterior insulation and finish system refers to a non-structural exterior wall assembly composed of the following components:
 - a. An approved substrate
 - b. Thermal insulation board mechanically or adhesively attached to the substrate per manufacturer's recommendation
 - c. A reinforced base coat applied to the insulation board
 - d. A 100% acrylic based textured coating applied over the reinforced base coat.
 - e. Approved sealants are required at all dissimilar materials and are specified in Section 07920.
 - f. Approved air and moisture barrier by EIFS manufacturer to accommodate incidental moisture and direct it to the exterior.
 - g. Approved metal flashing and termination.
 - 3. Impact Resistance:
 - a. EIMA 101/86 minimum values without cracking:
 - 1) "Standard" System - Adhesive/Base Coat - 50-89 in/lb
 - 2) Hi-Impact/2 System - Adhesive/Base Coat - 90-150 in/lb
 - 4. From grade to 2nd floor, a minimum 90-150 inch/pounds impact system is required.
 - 5. From 2nd floor up to a minimum 50-89 in/lb impact system is required.
 - 6. High traffic areas: provide 150-175 in/lb impact system at entries.

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1.4 SUBMITTALS

- A. Submit "Letter of Conformance" with drawings and specifications.
- B. Product Data: Submit technical product data, test reports, installation instructions and recommendations from manufacturer, including data that materials comply with requirements to the Owner and Architect for verification.

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1.5 QUALITY ASSURANCE

- A. Design and Detailing
 - 1. The System shall be installed in accordance with manufacturer's published details and specific recommendations for this project.
- B. Approvals, Listings, and Classifications:
 - 1. Fire-Test-Response Characteristics: Provide system assemblies and components with the following fire-test-response characteristics as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify products with appropriate markings of applicable testing and inspecting agency.
 - a. Flame Spread of Insulation Board and Finish Coats: 10 or less when tested individually per ASTM E 84.
 - b. Smoke Developed of Insulation Board and Finish Coats: 450 or less when tested individually per ASTM E 84.
 - 2. Code Approvals:
 - a. The EIFS system shall be approved by the applicable building codes and agencies within the jurisdiction of the Project. Code approval must be based on full scale diversified fire testing in its end use configuration by independent agencies whose classifications and requirements have general acceptance as regulator.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer shall provide a 10-year limited warranty on the labor and materials associated with the EIFS system. This warranty is exclusive of flashings.
 - 1. This warranty shall be assignable.
 - 2. This installer shall provide a 2-year warranty for all workmanship related to EIFS installation.
- B. Work is warranted against:
 - 1. Material defects, including, but not limited to, peeling, cracking, delamination, flaking, or similar failures.
 - 2. Seepage and leakage of water or excessive moisture into the building or wall cavities through the system.
- C. Inspection:
 - 1. The manufacturer shall provide final inspection at the completion of application of the system including all contiguous sealant joints.

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- A. Manufacturers:
 1. "Sto EIFS Next, Sto Essence", with Stoguard Air/Water Barrier; Sto Finish Systems Div.
 2. "Syner Flex System", with Seneshield-R Air/Water Barrier; Synergy Div., of Harris Specialty Chemicals, Inc.
 3. "Dryvit" Systems, Inc. Outslulation Plus with backstop NT-VB Air/Water Barrier.
 4. No substitutions permitted.

- 2.2 GENERAL: All components of the wall system shall be obtained from one manufacturer. No substitutions or addition of other materials will be allowed.

2.3 MATERIALS

- A. Compatibility: Provide substrates, adhesive, board insulation, reinforcing meshes, base-and finish-coat materials, sealants, and accessories that are compatible with one another and approved for use by system manufacturer for Project.
- B. Primer/Adhesive: A factory blended, polymer modified, cement based adhesive/base coat as recommended by the Manufacturer.
- C. Tape System:
 1. Material: Aquaflash, as manufactured by Dryvit Systems.
 2. Color: Manufacturers standard color.
 3. Width: 6" minimum
 4. Locations: Provide and install around all opening in EIFS walls and masonry openings. See drawings for details.
 5. Or equal by other listed manufacturers.
- D. Trim Accessories: Type as designated or required to suit conditions indicated and to comply with system manufacturer's written requirements, manufactured from vinyl plastic and complying with ASTM C 1063.

- 1. Casing Bead: Prefabricated one-piece type for attachment behind insulation, of depth required to suit thickness of coating and insulation, with face leg perforated for bonding to coating.
- 2. Drip Scribe: Prefabricated one-piece type for attachment behind insulation, of depth required to suit thickness of coating and insulation, with face leg perforated for bonding to coating and extended to form a drip.
- 3. Control Joints: Zinc alloy, size and profile as recommended by EIFS manufacturer.

- E. Elastomeric Sealant Products: Provide system manufacturer's listed and recommended chemically curing, elastomeric sealant that is compatible with joint fillers, joint substrates, and other related materials, and complies with requirements for products and testing indicated in "EIMA Guide for Use of Sealants with Exterior Insulation and Finish Systems, Class PB" and with requirements in Section 07920 "Sealants" for products.

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PART 3 EXECUTION

3.1 INSTALLATION

- A. Comply with ASTM PS 49 and system manufacturer's written instructions for installation of system as applicable to each type of substrate indicated.
 - B. Install fluid applied Air/Water Barrier according to manufacturers standards.
 - C. Adhesively and mechanically attach insulation to substrates to comply with ASTM PS 49, system manufacturer's written requirements.
 - D. Apply base coat to exposed surfaces of insulation in thickness specified by EIMA and system manufacturer.
 - E. Fully embed reinforcing fabric of weight indicated in wet base coat to produce wrinkle free installation.
 - F. Apply finish coat over dry base coat in thickness required by system manufacturer to produce a uniform finish of texture and color matching approved sample.
 - G. Apply base and finish coats to gypsum board substrate at walls and ceilings in pool and spa room.
- 3.2 INSTALLATION OF JOINT SEALANTS
- A. Prepare joints for sealants, of type and at locations indicated, to comply with applicable requirements and in "EIMA Guide for Use of Sealants with Exterior Insulation and Finish Systems, Class PB".
 1. Joint sealants to be applied after base coat has cured but before applying finish coat.

END OF SECTION 07240

SECTION 07542 - THERMOPLASTIC POLYOLEFIN (TPO) ROOFING

PART 1 GENERAL

1.01 DESCRIPTION

- A. The project consists of installing Versico's VersiWeld TPO Mechanically-Fastened Roofing System as outlined below:
 - Apply the VersiWeld Mechanically Attached Roofing System with the RhinoBond TPO Welding Plate in conjunction with Insulation Type: over the new IC chloroprene roof deck.

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1.02 EXTENT OF WORK

- A. Provide all labor, material, tools, equipment, and supervision necessary to complete the installation of the VersiWeld 650-mil thick white reinforced TPO (Thermoplastic Polyolefin) membrane Mechanically Attached Roofing System including flashings and insulation as specified herein and as indicated on the drawings in accordance with the manufacturer's most current specifications and details.
- B. The roofing contractor shall be fully knowledgeable of all requirements of the contract documents and shall make themselves aware of all job site conditions that will affect their work.
- C. The roofing contractor shall confirm all given information and advise the building owner, prior to bid, of any conflicts that will affect their cost proposal.
- D. Any contractor who intends to submit a bid using a roofing system other than the approved manufacturer must submit for pre-qualification in writing fourteen (14) days prior to the bid date. Any contractor who fails to submit all information as requested will be subject to rejection. Bids stating "as per plans and specs" will be unacceptable.

1.03 SUBMITTALS

- A. Prior to starting work, the roofing contractor must submit the following:
 1. Shop drawings showing layout, details of construction and identification of materials.
 2. Sample of the manufacturer's Membrane System Warranty.
 3. Submit a letter of certification from the manufacturer which certifies the roofing contractor is authorized to install the manufacturer's roofing system and lists foremen who have received training from the manufacturer along with the dates training was received.
 4. Certification from the membrane manufacturer indicating the fasteners are capable of providing a static backout resistance of 10 inch pounds minimum is required.
 5. Certification from the membrane manufacturer indicating the membrane thickness over the reinforcing scrim (top ply membrane thickness) is nominal .15-mil or thicker.
 6. Certification of the manufacturer's warranty reserve.
- B. Upon completion of the installed work, submit copies of the manufacturer's final inspection to the specifier prior to the issuance of the manufacturer's warranty.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

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- A. Deliver materials to the job site in the manufacturer's original, unopened containers or wrappings with the manufacturer's name, brand name and installation instructions intact and legible. Deliver in sufficient quantity to permit work to continue without interruption.
- B. Comply with the manufacturer's written instructions for proper material storage.

- 1. Store VersiWeld membrane in the original undisturbed plastic wrap in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. VersiWeld membrane that has been exposed to the elements for approximately 7 days must be prepared with Versico's Weathered Membrane Cleaner prior to hot air welding.
- 2. Store curable materials (adhesives and sealants) between 60°F and 80°F in dry areas protected from water and direct sunlight. If exposed to low temperature, restore to 60° minimum temperature before using.
- 3. Store materials containing solvents in dry, well ventilated spaces with proper fire and safety precautions. Keep lids on tight. Use before expiration of their shelf life.

- C. Insulation must be on pallets, off the ground and tightly covered with waterproof materials.
- D. Any materials which are found to be damaged shall be removed and replaced at the applicator's expense.

1.05 EXISTING CONDITIONS

If discrepancies are discovered between the existing conditions and those noted on the drawings, immediately notify the owner's representative by phone and solicit the manufacturer's approval prior to commencing with the work. Necessary steps shall be taken to make the building watertight until the discrepancies are resolved.

1.06 JOB SITE PROTECTION

- A. The roofing contractor shall adequately protect building, paved areas, service drives, lawn, shrubs, trees, etc. from damage while performing the required work. Provide canvas, boards and sheet metal (properly secured) as necessary for protection and remove protection material at completion. The roofing contractor shall repair or be responsible for costs to repair all property damaged during the roofing application.

1.07 WORKMANSHIP

- A. Applicators installing new roof, flashing and related work shall be factory trained and approved by the manufacturer they are representing.
- B. All work shall be of highest quality and in strict accordance with the manufacturer's published specifications and to the building owner's satisfaction.
- C. There shall be a supervisor on the job site at all times while work is in progress.

1.08 QUALITY ASSURANCE

- A. The VersiWeld Roofing System must achieve a UL Class 3.
 - The specified roofing assembly must be rated by Factory Mutual Global (FMG) to meet or exceed the factored uplift pressures outlined in FMG Property Loss Prevention Data Sheet 1-28, and complies with FMG Property Loss Prevention Data Sheet 1-29 for enhancements at the perimeter and corners.
 - The membrane must be manufactured by the material supplier. Manufacturer's supplying membrane made by others are not acceptable.
 - Unless otherwise noted in this specification, the roofing contractor must strictly comply with the manufacturer's current specifications and details.
 - The roofing system must be installed by an applicator authorized and trained by the manufacturer in compliance with shop drawings as approved by the manufacturer. The Roofing Contractor shall be thoroughly experienced and upon request be able to provide evidence of having at least five (5) years successful experience installing single-ply TPO roofing systems and having installed at least one (1) roofing application or several similar systems of equal or greater size within one year.
 - Provide adequate number of experienced workmen regularly engaged in this type of work who are skilled in the application techniques of the materials specified. Provide at least one thoroughly trained and experienced superintendent on the job at all times roofing work is in progress.
- F. There shall be no deviations made from this specification or the approved shop drawings without the prior written approval of the specifier. Any deviation from the manufacturer's installation procedures must be supported by a written certification on the manufacturer's letterhead and presented for the specifier's consideration.
- G. Upon completion of the installation, the applicator shall arrange for an inspection to be made by a non-sales technical representative of the membrane manufacturer in order to determine whether or not corrective work will be required before the warranty will be issued. Notify the building owner seventy-two (72) hours prior to the manufacturer's final inspection.

1.09 JOB CONDITIONS, CAUTIONS AND WARNINGS

Refer to Versico's VersiWeld Roofing System specification for General Job Site Considerations.

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- A. Material Safety Data Sheets (MSDS) must be on location at all times during the transportation, storage and application of materials.
- B. When positioning membrane sheets, exercise care to locate all field splices away from low spots and out of drain spans. All field splices should be shingled to prevent bucking of water.
- C. When loading materials onto the roof, the Versico's Authorized Roofing Contractor must comply with the requirements of the building owner to prevent overloading and possible disturbance to the building structure.
- D. Proceed with roofing work only when weather conditions are in compliance with the manufacturer's recommended limitations, and when conditions will permit the work to proceed in accordance with the manufacturer's requirements and recommendations.
- E. Proceed with work so new roofing materials are not subject to construction traffic. When necessary, new roof sections shall be protected and inspected upon completion for possible damage.
- F. Provide protection, such as 3/4 inch thick plywood, for all roof areas exposed to traffic during construction. Plywood must be smooth and free of fasteners and splinters.
- G. The surface on which the insulation or roofing membrane is to be applied shall be clean, smooth, dry, and free of projections or contaminants that would prevent proper application of or be incompatible with the new installation, such as fins, sharp edges, foreign materials, oil and grease.
- H. New roofing shall be complete and weathertight at the end of the work day.
- I. Contaminants such as grease, fats and oils shall not be allowed to come in direct contact with the roofing membrane.

1.10 WARRANTY

- A. Provide manufacturer's 20 year Total System Warranty covering both labor and material with no dollar limitation. The maximum wind speed coverage shall be peak gusts of 55 mph measured at 10 meters above ground level. Certification is required with bid submittal indicating the manufacturer has reviewed and agreed to such wind coverage.
- B. Pro-rated System Warranties shall not be accepted.
- C. Evidence of the manufacturer's warranty reserve shall be included as part of the project submittals for the specifier's approval.

PART 2 PRODUCTS

2.01 GENERAL

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- A. All components of the specified roofing system shall be products of Versico or accepted by Versico as compatible.

- B. All products (including insulation, fasteners, fastening plates, prefabricated accessories and e/edges) must be manufactured and/or supplied by the roofing system manufacturer and covered by the warranty.

2.02 MEMBRANE

Furnish VersiWeld 650-mil thick white reinforced TPO (Thermoplastic Polyolefin) membrane as needed to complete the roofing system. Membrane thickness over the reinforcing scrim (top-ply thickness) shall be nominal .015-mil or thicker. Membrane sheets in rolls 12', 10' or 8' wide by 100' long.

2.03 INSULATION/UNDERLAYMENT

- A. When applicable, insulation shall be installed in multiple layers. The first and second layer of insulation shall be mechanically fastened to the substrate in accordance with the manufacturer's published specifications.
- B. Insulation shall be Type of Insulation, as supplied by Versico. Minimum R-value required is Note R-Value.
 1. Versico's MP-H Polyiso – A foam core insulation board covered on both sides with a medium weight fiber-reinforced felt facing meeting ASTM C 1289-06, Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi). The product is available in 4' x 8' standard size with a thickness from 1 to 4 inches. 4' x 4' tapered panels are also available.
 2. Versico's SecurShield Polycyclopuramate – A foam core insulation board covered on both sides with a coated glass fiber mat facing meeting ASTM C 1289-06, Type II, Class 2, Grade 2 (20 psi) or Grade 3 (25 psi). The product is available in 4' x 8' standard size with a thickness from 1 to 4 inches. 4' x 4' tapered panels are also available.

2.04 ADHESIVES AND CLEANERS

- A. VersiWeld Bonding Adhesive: A high-strength, synthetic rubber adhesive used for bonding VersiWeld membrane to various surfaces. The adhesive is applied to both the membrane and the substrate at a coverage rate of approximately 60 square feet per gallon per finished surface (includes coverage on both surfaces).
- B. Low VOC Bonding Adhesive for TPO: This product meets the <250 gpl (volatile organic compound) content requirements of the OTC Model Rule for Single-Ply Roofing Adhesives. A high strength, solvent-based contact adhesive that allows bonding of TPO membrane to various porous and non-porous substrates. Apply at a rate of 60 ft² per gallon finished surface. Available in 5 gallon pails. This product does not comply with southern California counties with additional restrictions on solvents. See Versico's Technical Data Bulletin for a listing of the counties involved.

All products shall be furnished by Versico's and specifically formulated for the intended purpose.

- A. VersiWeld Bonding Adhesive: A high-strength, synthetic rubber adhesive used for bonding VersiWeld membrane to various surfaces. The adhesive is applied to both the membrane and the substrate at a coverage rate of approximately 60 square feet per gallon per finished surface (includes coverage on both surfaces).

- B. Low VOC Bonding Adhesive for TPO: This product meets the <250 gpl (volatile organic compound) content requirements of the OTC Model Rule for Single-Ply Roofing Adhesives. A high strength, solvent-based contact adhesive that allows bonding of TPO membrane to various porous and non-porous substrates. Apply at a rate of 60 ft² per gallon finished surface. Available in 5-gallon cans. This product complies with southern California counties with additional restrictions on solvents. See Versico's Technical Data Bulletin for a listing of the counties involved.

Cut-Edge Sealant: A white or clear colored sealant used to seal cut edges of reinforced VersiWeld membrane. A coverage rate of approximately 225 x 275 linear feet per squeeze bottle can be achieved when a 1/8" diameter bead is applied.

Water Cut-Off Mastic: Used as a mastic to prevent moisture migration at drains, compression terminations and beneath conventional metal edging (at a coverage rate of approximately 10' per tube or 100' per gallon).

- F. Universal Single-Ply Sealant: A 100% solids, solvent free, voc free, one part polyether sealant that provides a weather tight seal to a variety of building materials. It is white in color and is used for general caulking such as above termination bars and metal counter flashings and at scuppers.

Thermoplastic One-Part Pourable Sealer: A one-part, moisture curing, elastomeric polyether sealant used to fill TPO Molded Pourable Sealant Pockets. Packed in 4, 2-liter foil pouches inside a reusable plastic bucket. 1 pouch will fill 2 TPO Molded Pourable Sealant Pockets.

Weathered Membrane Cleaner: Used to prepare membrane for heat welding that has been exposed to the elements or to remove general construction dirt at an approximate coverage rate of 400 square feet per gallon (one surface).

- I. TPO Primer: A solvent-based primer used to prepare the surface of VersiWeld Membrane prior to application of Pressure-Sensitive Coverstrip and TPO Pressure-Sensitive RUSS.
- J. TPO Low VOC Primer: A solvent-based, low solids primer used to prepare the surface of VersiWeld Membrane prior to application of Pressure-Sensitive Coverstrip and TPO Pressure-Sensitive RUSS. This low VOC product is ideal for use in states where environmental issues are a concern.

2.05 FASTENERS AND PLATES

To be used for mechanical attachment of insulation and to provide additional membrane securement:

- A. RhinoBond TPO Welding Plate: A 3" diameter, thick, corrosion-resistant steel plate with high solids coating on the top surface. The plate is secured with Versico's HPVX Fastener or Purlin Fastener and the membrane is welded to the top surface using the RhinoBond Induction Welding Tool.

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2.06 METAL EDGING AND MEMBRANE TERMINATIONS

- B. General: All metal edging shall be tested and meet ANSI/SPRI ES-1 standards and comply with International Building Code.
- D. VersiTrim One Coping: A snap-on coping edge system consisting of a 24 gauge retainer bar (face side only), corrosion resistant fasteners and a 24 gauge or 0.040 aluminum Kynar finished coping cover. The coping cover is secured by clipping on the retainer bar and fastened on the backside with corrosion resistant fasteners (with rubber washer). Available for wall thicknesses up to 30". Metal coping cap color shall be as designated by the Owner's Representative.
- E. Termination Bar: A 1" wide and .098" thick extruded aluminum bar pre-punched 6" on center; incorporates a sealant ledge to support Lap Sealant and provide increased stability for membrane terminations.

2.07 WALKWAYS

Protective surfacing for roof traffic shall be VersiWeld TPO Walkway Rolls installed per manufacturer's requirements or concrete pavers loose laid over an approved slip sheet (pavers not recommended for slopes greater than 2" in 12").

PART 3 EXECUTION

3.01 GENERAL

- A. Comply with the manufacturer's published instructions for the installation of the membrane roofing system including proper substrate preparation, jobsite considerations and weather restrictions.
- B. Position sheets to accommodate contours of the roof deck and shingle splices to avoid bucking water.

3.02 INSULATION PLACEMENT AND ATTACHMENT

- A. Install insulation or membrane underlayment over the substrate with boards butted tightly together with no joints or gaps greater than 1/4 inch. Stagger joints both horizontally and vertically if multiple layers are provided.
- B. Secure insulation to the substrate with the required Versico's fasteners and RhinoBond TPO Welding Plate in accordance with manufacturers specifications.
- F. Note: Depending on building code, wind loads, or air / vapor design criteria, additional insulation attachment may be required and clarified by membrane manufacturer.

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3.03 FLASHING

- A. Flashing of parapets, curbs, expansion joints and other parts of the roof must be performed using VersiWeld reinforced membrane. VersiWeld non-reinforced membrane can be used for flashing pipe penetrations. Sealant Pockets, scuppers, as well as inside and outside corners when the use of pre-fabricated accessories is not feasible.
- B. Follow manufacturer's typical flashing procedures for all wall, curb, and penetration flashing including metal edging/coping and roof drain applications.

3.04 WALKWAYS

- A. Install walkways at all traffic concentration points (such as roofatches, access doors, rooftop ladders, etc.) and all locations as identified on the specifier's drawing in accordance with the manufacturer's specifications.

3.05 DAILY SEAL

- A. On phased roofing, when the completion of flashings and terminations is not achieved by the end of the work day, a daily seal must be performed to temporarily close the membrane to prevent water infiltration.
- B. Complete an acceptable membrane seal in accordance with the manufacturer's requirements.

END OF SECTION 07542

SECTION 07610 - SHEET METAL ROOFING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 1. Extent of metal roofing is shown on the Drawings and indicated by provisions of this Section.
 2. The following types of work are specified in this Section:
 - a. Standing Seam Roof System
 - b. Flashings
 - c. Matching Fascia

1.2 SYSTEM DESCRIPTION

- A. Provide Roof Panel System with no air leakage when tested in accordance with ASTM E-283 at pressure differentials up to 1.57 PSF.

- B. Provide Roof Panel System with no water penetration as defined in the test method when tested with ASTM E-331 at an inward static air pressure of not less than 6.24 PSF and not more than 12.0 PSF.

- C. Metal roof system shall be grounded in accordance with local Codes, as approved by the Building Department. This Contractor shall provide a provision for connection of roof grounding system to building ground system by Electrical Contractor. Coordinate with Electrical Contractor as required for complete grounding system.

1.3 SUBMITTALS

- A. Shop Drawings: Submit Shop Drawings showing manner of forming, joining, and securing metal roofing, and pattern of seams. Show expansion joint details and waterproof connections to adjoining work and at obstructions and penetrations.

1.4 QUALITY ASSURANCE

- A. Industry Standard: Except as otherwise shown or specified, comply with applicable recommendations and details of "Architectural Sheet Metal Manual" by SMACNA. Conform to dimensions and profiles shown.

1.5 WARRANTY

- A. The following guarantees shall be provided by the metal roofing manufacturer:
 1. Durability of the roof panels against rupture, structural failure, or perforation shall be guaranteed for a period of ten (10) years.
 2. The color finish for the roof and wall panels shall be guaranteed by the building manufacturer for standard term against blistering, peeling, cracking, flaking, chipping, and chipping. Excessive color change and chalking shall be guaranteed for ten (10) years.
- B. Provide manufacturer's written weathertightness warranty for a maximum of ten (10) years against leaks in roofing system. Warranty shall be provided by both the manufacturer of the metal roofing system and the metal roofing system manufacturer.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Manufacturers:
 1. AEP-Span, (800-527-2503) "HS-12"
 2. Atlas International, Inc. (800-488-1441) "Standing Seam – I"
 3. Berridge Manufacturing Company (800-231-8127), "TEE-Panel".
 4. MBCT (281-445-8555) "Craftsman Series Standing Seam".
 5. Or equivalent approved by Architect.

2.2 ROOF COVERING

- A. All roof constructions shall carry the Underwriters Laboratories Construction (Uplift) rating of not less than Class 90.
- B. Roof System
 1. The roof system shall be "Standing Seam Tee-Panel System", as manufactured by Berridge Manufacturing Company, or approved substitution by listed manufacturers. System shall be composed of the following:
 - a. Panels shall be nominal 12-3/4" seam on center with snap-on seam. Fabricate from 24 gauge hot dipped galvanized (G-90) steel in accordance with ASTM A446 and ASTM A525.
 - b. Fluoropolymer finish to be Kynar 500. Coating to be two-coat, thermo-cured, full-strength 70% Kynar 500 Fluoropolymer coating. Manufacturer warrants that coating shall not blister, peel, crack, chip, or experience rust-through for ten (10) years.
 - c. Custom panel widths at both ends of panel run to provide a continuous panel formed to the shape of the substrate allowing the panel leg to extend vertically and counterflash at the rake condition.
 - d. All panels to be in one continuous length without lap joints within the individual run.
 - e. Color: Bronze. (Verify with Owner)
 -

recommendations and instructions of manufacture of sheet metal being fabricated and installed.

END OF SECTION 07610

SECTION 07620 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: 1. Flashing at Roof, Windows, Doors, and other locations as shown on Drawings. 2. Roof Drainage Systems a. Gutters b. Downspouts 3. Fasteners

1.2 SUBMITTALS

- A. Manufacturers standard color charts for selection purposes.

PART 2 - PRODUCTS

2.1 ALUMINUM FLASHING AND TRIM

- A. Materials 1. Aluminum Sheet: ASTM B209, Alloy 3003, Temper H14, AA-C22A41, minimum .032 inch thick (20 ga) sheet. 2. Fasteners: Concealed type; of same material as flashings; sized to suit application. 3. Size and shape as shown on Drawings. 4. Finish: Prefinished. Verify color with Owner.

2.2 GUTTERS & DOWNSPOUTS

- A. Manufacturers: 1. Alcoa Building Products (800-962-6973) 2. Alside, Inc. (800-962-6973) 3. Approved substitution

- B. Materials: 1. Seamless, continuous, gutters to be minimum .032" thick, sheet aluminum conforming to requirements of ASTM B209, Alloy 3003, Temper H14, finish to be thermo-setting acrylic enamel conforming to AAMA 603.8

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- A. Comply with manufacturer's instructions and recommendations for handling and installation of flashing and sheet metal work.

3.2 INSTALLATION

- A. GENERAL: Unless otherwise indicated, install sheet metal flashing and trim to comply with performance requirements, manufacturer's installation instructions, and SMACNA's "Architectural Sheet Metal Manual". Anchor units of work securely in place by methods indicated, providing for thermal expansion of metal units; conceal fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weatherproof.

3.3 INSTALLATION - WALL FLASHINGS

- A. Membrane Wall Flashing: (All exterior doors, windows, and other locations as shown on Drawings): 1. Install in strict accordance with manufacturer's specifications to provide a watertight enclosure. 2. Apply a bead of sealant along top edge of flashing membrane and along seams and cuts as required.

END OF SECTION 07620

SECTION 07723 - ROOF HATCHES

PART 1 - GENERAL

1.1 SUMMARY

- Section Includes: Personnel Series roof hatches installed on or in roofing system indicated on Drawings and specified herein. Includes related hardware and attachments. Does not include mechanical or structural items. Safety railing system.

1.2 SUBMITTALS

- Shop Drawings: Indicate configuration and dimension of components, adjacent construction, required clearances and tolerances, and other affected Work. Hatch Units: Show types, elevations, thickness of metals, and full size profiles. Hardware: Show materials, finishes, locations of fasteners, types of fasteners, locations and types of operating hardware, and details of installation. General: Show connections of units and hardware to other Work. Include schedules showing location of each type and size of unit.

Product Data: Manufacturer's technical data for each type of hatch assembly, including setting

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- drawings, templates, finish requirements, and details of anchorage devices. Include complete schedule, types, locations, construction details, finishes, latching or locking provisions, and other pertinent data. Manufacturer's installation instructions: Indicate installation requirements and rough-in dimensions.

1.3 QUALITY ASSURANCE

- Qualifications: Manufacturer/Installer: Company specializing in manufacturing and installation of components specified in this Section with minimum of 5 years documented experience. Regulatory Requirements: OSHA Compliance: Provide hatch safety railing system as required by OSHA Standard 1910.23 and 1910.27 and as specified in Section.

1.4 WARRANTY

- Provide manufacturer's written 5-year warranty. Warrant materials and workmanship against defects after completion and final acceptance of Work.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- Babcock-Davis 9300 73rd Avenue North Brooklyn Park, MN 55428 Toll Free Hotline: 888.412.3726 Toll Free Fax: 888.312.3726 Direct Phone: 763-488-9247 E-Mail: info@babcockdavis.com Internet: http://www.babcockdavis.com/

2.2 MANUFACTURED UNITS

- Personnel Series Aluminum Roof Hatches: Cover and liner: 11 gauge (0.090-inch) aluminum cover with 1 inch rigid fiberboard insulation and 18 gauge (0.040-inch) aluminum cover liner. Curb: 11 gauge (0.090-inch) aluminum curb with 1 inch rigid fiberboard insulation. Hinges: [Zinc plated steel] tamper-proof hinge contained within hatch as part of spring assembly. Latch: [Zinc plated steel] slam latch with turn handle and inside/outside padlock hasps.

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- Springs: Greased heavy-duty compression springs in telescoping tubes. Hardware: [Zinc plated steel] hold open arm(s) with red vinyl grip handle that automatically locks door when opened. Furnish hatches with interior padlock hasp and EPDM draft seal. Mounting Flanges: Single Wall Curb with 3.5" horizontal mounting flange Double Wall Curb with 3.5" horizontal mounting flange Curb Mount with 3" vertical mounting flange Acceptable Product: Model BRHPA 30"x54"

2.3 FINISHES

- General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Finish designations prefixed by AA comply with system established by Aluminum Association for designating aluminum finishes. Aluminum: Mill finish. Steel: Manufacturer's standard factory-applied powder coat.

2.4 SAFETY RAILINGS

- Top rail, Mid rail and upright posts: Galvanized Steel Pipe, 1 1/4" ID, A53 Grade B pipe. Exit: Self Closing Gate. Galvanized Steel Pipe, 1 1/4" ID A53 Grade B pipe, U bolt with hinge attachment and galvanized mounting bolts and nut hardware. Option: Chain, link, galvanized steel. Fittings: Manufacturer's standard aluminum magnesium alloy, cast with set screw pipe mount Counterflash Mount: CRS, zinc plated mounting bracket with backer plate, pemmed nut for easy installation. Hardware: Bolts and Tooling: 3/8 inch by 2-1/2 inch, grade Z, zinc plated, wrench for assembly OSHA Compliance: Provide hatch safety railing system as required by OSHA Standard 1910.23 and 1910.27 and as specified.

- Top Rail Height: 42 inches +/-3" above finished roof deck. Top/Mid Rail Spacing: 21" diameter maximum Meets 200lb deflection load when mounted to roof hatch counterflash. Upright post maximum spacing of 8'.

- Acceptable Product: Safety Railing for Roof Hatch, Model Number SRCG

2.5 SAFETY POSTS

- Post: Manufactured of high strength square tubing, 1 1/2" x 1 1/2" x 1/8". A pull up loop shall be provided at the upper end of the post to facilitate raising the post Ladder Mounting: Attaches directly to the top two rungs (square or round) of fixed ladder

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Balancing spring: A stainless steel constant force balancing spring mechanism shall provide smooth, easy, controlled operation when raising and lowering the safety post

Hardware: Mounting hardware shall be zinc plated steel, providing superior strength

Tubular post shall lock automatically when fully extended. Release lever shall disengage the post to allow it to be returned to its lowered position

Models

- SPM1: Steel, Red Powder Coat Finish SPM2: Steel, Hot Dip Galvanized SPM3: Aluminum, Mill Finish SPM4: Stainless Steel, Mill Finish

PART 3 - EXECUTION

3.1 EXAMINATION

Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper or timely completion. Verify that deck, curbs, roof membrane, base flashing, and other items affecting Work of this Section are in place and positioned correctly. Verify tolerances and correct improper conditions. Do not proceed until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

Install roof accessory items and components per manufacturer's instructions. Coordinate installation of components of this Section with installation of roof deck, roof structure, roofing membrane, and base flashing. Coordinate installation of sealant and roofing cement with Work of this Section to ensure water tightness. Coordinate installation of flashing flanges into reglets, if applicable. Separate metal from incompatible metal or corrosive substrates, including wood, by coating concealed surfaces, at locations of contact, with bituminous coating or providing other permanent separation. Flange Seals: Unless otherwise indicated, set flanges of accessory units in a thick bed of roofing cement to form a seal.

3.3 ADJUSTING

Adjust movable parts for smooth operation. Operational Units: Test-operate units with operable components. Clean and lubricate joints and hardware. Adjust for proper operation.

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Balancing Spring: A stainless steel constant force balancing spring mechanism shall provide smooth, easy, controlled operation when raising and lowering the safety post

Hardware: Mounting hardware shall be zinc plated steel, providing superior strength

Tubular post shall lock automatically when fully extended. Release lever shall disengage the post to allow it to be returned to its lowered position

Models

- SPM1: Steel, Red Powder Coat Finish SPM2: Steel, Hot Dip Galvanized SPM3: Aluminum, Mill Finish SPM4: Stainless Steel, Mill Finish

PART 3 - EXECUTION

3.1 EXAMINATION

Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper or timely completion. Verify that deck, curbs, roof membrane, base flashing, and other items affecting Work of this Section are in place and positioned correctly. Verify tolerances and correct improper conditions. Do not proceed until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

Install roof accessory items and components per manufacturer's instructions. Coordinate installation of components of this Section with installation of roof deck, roof structure, roofing membrane, and base flashing. Coordinate installation of sealant and roofing cement with Work of this Section to ensure water tightness. Coordinate installation of flashing flanges into reglets, if applicable. Separate metal from incompatible metal or corrosive substrates, including wood, by coating concealed surfaces, at locations of contact, with bituminous coating or providing other permanent separation. Flange Seals: Unless otherwise indicated, set flanges of accessory units in a thick bed of roofing cement to form a seal.

3.3 ADJUSTING

Adjust movable parts for smooth operation. Operational Units: Test-operate units with operable components. Clean and lubricate joints and hardware. Adjust for proper operation.

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3.4 CLEANING

Clean exposed surfaces per manufacturer's written instructions. Touch up damaged metal coatings.

END OF SECTION 07723

SECTION 07840 - FIRESTOPPING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: 1. Penetrations through fire-resistance-rated floor and roof construction, including both empty openings and openings containing cables, pipes, ducts, conduits, and other penetrating items. 2. Penetrations through fire-resistance-rated walls and partitions, including both empty openings and openings containing cables, pipes, ducts, conduits, and other penetrating items.

1.2 SYSTEM DESCRIPTION

- A. General: Provide firestopping systems that are produced and installed to resist the spread of fire, according to requirements indicated, and the passage of smoke and other gases. B. Performance Requirements: 1. F-Rated Through-Penetration Firestop Systems: Provide through-penetration firestop systems with F ratings indicated, as determined per ASTM E 814, but not less than that equaling or exceeding the fire-resistance rating of the constructions penetrated. T-Rated Through-Penetration Firestop Systems: Provide through-penetration firestop systems with T ratings, in addition to F ratings, as determined per ASTM E 814, where indicated and where systems protect penetrating items exposed to contact with adjacent materials in occupiable floor areas. T-rated assemblies are required where the following conditions exist: a. Where firestop systems protect penetrations located outside of wall cavities. b. Where firestop systems protect penetrations located outside fire-resistive shaft enclosures. c. Where firestop systems protect penetrations located in construction containing doors required to have a temperature-rise rating. d. Where firestop systems protect penetrating items larger than a 4-inch-diameter nominal pipe or 16 sq. in. in overall cross-sectional area. 3. Fire-Resistive Joint Sealants: Provide joint sealants with fire-resistance ratings indicated, as determined per ASTM E 119, but not less than that equaling or exceeding the fire-resistance rating of the construction in which the joint occurs. 4. For firestopping exposed to view, traffic, moisture, and physical damage, provide

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products that do not deteriorate when exposed to these conditions.

- a. For piping penetrations for plumbing and wet-pipe sprinkler systems, provide moisture-resistant through-penetration firestop systems. b. For floor penetrations with annular spaces exceeding 4 inches or more in width and exposed to possible loading and traffic, provide firestop systems capable of supporting the floor loads involved either by installing floor plates or by other means. c. For penetrations involving insulated piping, provide through-penetration firestop systems not requiring removal of insulation.

1.3 SUBMITTALS

- A. Provide product data for each type of product specified. 1. Certification by firestopping manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs) and are nontoxic to building occupants.

PART 2 - PRODUCTS

2.1 FIRESTOPPING, GENERAL

- A. Compatibility: Provide firestopping composed of components that are compatible with each other, the substrates forming openings, and the items, if any, penetrating the firestopping under conditions of service and application, as demonstrated by firestopping manufacturer based on testing and field experience. B. Accessories: Provide components for each firestopping system that are needed to install fill materials and to comply with "System Performance Requirements" article in Part 1. Use only components specified by the firestopping manufacturer and approved by the qualified testing and inspecting agency for the designated fire-resistance-rated systems. Accessories include, but are not limited to, the following items: 1. Permanent Forming/Damming/Backing Materials, including the Following: a. Semirefractory Fiber (mineral wool) Insulation b. Ceramic Fiber c. Sealants Used in Combination with Other Forming/Damming Materials to Prevent Leakage of Fill Materials in Liquid State d. Fire-rated Formboard 2. Temporary Forming materials 3. Substrate Primers 4. Collars 5. Steel Sleeves

2.2 Fire barrier penetration sealing systems shall be as manufactured by one of the following:

- A. Manufacturers: 1. 3M Brand Fire Protection Products (800-447-2914)

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products that do not deteriorate when exposed to these conditions.

- a. For piping penetrations for plumbing and wet-pipe sprinkler systems, provide moisture-resistant through-penetration firestop systems. b. For floor penetrations with annular spaces exceeding 4 inches or more in width and exposed to possible loading and traffic, provide firestop systems capable of supporting the floor loads involved either by installing floor plates or by other means. c. For penetrations involving insulated piping, provide through-penetration firestop systems not requiring removal of insulation.

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PART 2 - PRODUCTS

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2.2 Fire barrier penetration sealing systems shall be as manufactured by one of the following:

- A. Manufacturers: 1. 3M Brand Fire Protection Products (800-447-2914)

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- 2. "Firemaster", by Thermal Ceramics (706-796-4200) 3. Tremco, Inc. (800-562-2728) 4. The Rector Seal Corp. (800-231-3345) 5. Hilti, Inc. (800-879-8000) 6. Dow Corning Corp. (800-248-2481) 7. ProSet Systems, Inc. (800-262-5355)

END OF SECTION 07840

SECTION 07920 - SEALANTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: 1. Clean and Prepare Joint Surfaces 2. Sealant and Backing Materials including primers, backer rods, bond breakers and accessories.

1.2 SYSTEM DESCRIPTION

- A. Work shall include providing sealant at intersection of construction components within and exterior to building, including, but not limited to the following: 1. Exterior joints in the following vertical surfaces and nontraffic horizontal surfaces: a. Control and expansion joints in cast-in-place concrete. b. Joints in exterior insulation and finish systems (EIFS). c. Joints between metal panels. d. Joints between different materials listed above. e. Perimeter joints between materials listed above and frames of doors and windows. f. Control and expansion joints in ceiling and overhead surfaces. g. Under thresholds. h. Refrigerant lines and other Div. 15 and 16 items entering building. i. Joints in coping caps and exposed roof counter flashing. j. Other joints as indicated. 2. Exterior joints in the following horizontal traffic surfaces: a. Control, expansion, and isolation joints in cast-in-place concrete slabs. b. Tie control and expansion joints. c. Joints between different materials listed above. d. Other joints as indicated. 3. Interior joints in the following vertical surfaces and horizontal nontraffic surfaces: a. Control and expansion joints on exposed interior surfaces of exterior walls. b. Perimeter joints of exterior openings where indicated. c. Tie control and expansion joints. d. Perimeter joints between interior wall surfaces and frames of interior doors,

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- 2. "Firemaster", by Thermal Ceramics (706-796-4200) 3. Tremco, Inc. (800-562-2728) 4. The Rector Seal Corp. (800-231-3345) 5. Hilti, Inc. (800-879-8000) 6. Dow Corning Corp. (800-248-2481) 7. ProSet Systems, Inc. (800-262-5355)

END OF SECTION 07840

SECTION 07920 - SEALANTS

PART 1 - GENERAL

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- e. Joints between plumbings fixtures and adjoining walls, floors, and counters. f. Edge of all vinyl wallcovering installations at junctions with other materials, including ceiling joint. g. Bottom edge of mirror channels h. Top of tub surround i. Other joints as indicated. 4. Interior joints in the following horizontal traffic surfaces: a. Control and expansion joints in cast-in-place concrete slabs. b. Control and expansion joints in tile flooring. c. Joints at countertops, vanities, d. Under thresholds except marble. e. Door bucks not flush with thresholds. f. Tubs, lavatories, water closets, and other plumbing fixtures. g. Perimeters of fixed kitchen equipment. h. Joints of mirrors in wet areas. i. Other joints as indicated.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products listed below shall be as offered by one of the following manufacturers: 1. Manufacturers: a. Dow Corning Corp. (800-248-2481) b. GE Silicones (800-255-8886) c. Sonneborn Bk'g. Products Div., ChemRes Inc. (800-496-6067) d. Bostik Inc. (800-523-6688) e. Pecora Corp. (800-523-6688) f. Tremco, Inc. (800-562-2728)

2.2 SEALANTS

- A. General: 1. Colors: Match sealant material to colors of adjacent materials, as approved by Owner, unless indicated otherwise.

END OF SECTION 07920

SECTION 08110 - STEEL DOORS AND FRAMES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: 1. Interior Metal Doors and Frames 2. Exterior Hollow Metal Doors and Frames

1.2 SUBMITTALS

- A. Submit Shop Drawings and product data indicating pertinent dimensioning, construction, component connections and locations, anchorage methods and locations, hardware locations and installation details. B. Door Schedule: Submit schedule of doors and frames using same reference numbers for details and openings as those on Contract Drawings. 1. Indicate coordination of glazing frames and stops with glass and glazing requirements.

1.3 QUALITY ASSURANCE

- A. Hollow metal doors and frames shall be fabricated in accordance with standards and specifications established by Steel Door Institute, complying with ANSI/SDI 100 "Recommended Specifications for Standard Steel Doors and Frames" and as specified. B. Fire-Rated Door Assemblies: Units that comply with NFPA 80 are identical to door and frame assemblies tested for fire-test-response characteristics per ASTM E 152, and are labeled and listed by UL, Warnock Hersey, or another testing and inspecting agency acceptable to authorities having jurisdiction. C. Opening assemblies shall meet the requirements of NFPA 105 Hot Smoke Test. D. All stallwork doors and other doors as may be shown on the Drawings shall comply with the temperature-rise rating of 450 degrees F. maximum in 30 minutes of fire exposure. E. Comply with the requirements of UBC 7-3 Fire Door Test Standards. 1. Doors shall be labeled to certify compliance. 2. Provide installation instructions attached to each door in a manner that assures availability to the installer and building official. G. Doors and frames shall have one [1] coat of manufacturer's standard primer. Prime painted steel door and frame surfaces shall comply with ANSI A22.1.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: 1. The Steelcraft Door and Frame Products, Division of Ingersoll-Rand (800-243-9780) 2. Ceco Door Products (615-661-5030) 3. Republic Builders Products (800-733-3667)

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Pueblo, CO

PROJ. MGR.



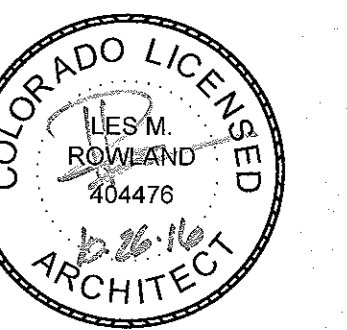
208 E. Holly Boulevard

Brandon, South Dakota 57005

Phone: 605.336.8197

Fax: 605.582.3894

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ARCHITECT:

LES ROWLAND

212 E. Holly Boulevard

Brandon, South Dakota 57005

Architectural Specifications

PROJECT NO.

W16006

DRAWN BY:

CDS

CHECKED BY:

WLP

DATE:

10.26.2016

SHEET:

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<p>4. Curries Company (315-423-1334) 5. Pioneer Industries</p>	<table border="0"> <tr> <td style="width: 50px;">B. DOORS</td> <td style="width: 100px;">Product (Essex) 707-S</td> <td style="width: 100px;">Location Exterior, Back of House</td> <td style="width: 100px;">Type Exterior</td> </tr> </table> <p>C. FRAMES Manufacturer Curries Product M Series Type Welded (drywall)</p>	B. DOORS	Product (Essex) 707-S	Location Exterior, Back of House	Type Exterior	<p>or optional electrostatic applied water based paint system</p> <p>B. Frames for high humidity areas to be electro galvanized prior to pre-finishing. See 2.02.B for specific locations</p> <p>C. Casing Finishes selected by Owner: 1. Steel: Prefinished with factory applied impact resistant, polyester baked enamel finish.</p> <p>D. Colors selected by Owner: 1. Designer Colors: Select from manufacturer's standard pre-matched custom colors</p> <p>G. Touch-up blemishes on finished frames with factory prepared touch up paint.</p>	<p>drift and deflection from uniformly distributed and concentrated live loads.</p> <p>2. Dimensional tolerances of building frame and other adjacent construction.</p> <p>B. Wind Loads: As determined by Manufacturer for project location and exposure.</p> <p>C. Deflection of Framing Members: 1. Deflection Normal to Wall Plane: 1/175 of clear span for spans up to 13 feet 6 inches (4.1 m) and to 1/240 of clear span plus 1/4 inch (6.35 mm) for spans greater than 13 feet 6 inches (4.1 m) or an amount that restricts edge deflection of individual glazing lites to 3/4 inch (19 mm), whichever is less. 2. Deflection Parallel to Glazing Plane: Limited to L/360 of clear span or 1/8 inch (3.2 mm), whichever is smaller.</p> <p>D. Structural-Test Performance: Provide aluminum-framed systems tested according to ASTM E 330 as follows: E. Air Infiltration: Provide aluminum-framed systems with maximum air leakage through fixed glazing and framing areas of 0.06 cfm/sq. ft. (0.03 L/s per sq. m) of fixed wall area when tested according to ASTM E 283 at a minimum static-air-pressure difference of 1.57 lbf/sq. ft. (75 Pa). F. Water Penetration under Static Pressure: Provide aluminum-framed systems that do not evidence water penetration through fixed glazing and framing areas when tested according to ASTM E 331 at a minimum static-air-pressure difference of 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft. (300 Pa).</p>	<p>7. Glazing Stops and Gaskets: Square, snap-on, extruded-aluminum stops and preformed gaskets. a. Provide nonremovable glazing stops on outside of door.</p> <p>2.6 ENTRANCE DOOR HARDWARE A. General: Provide entrance door hardware for each entrance door to comply with requirements in this Section. 1. Entrance Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturers' products, products equivalent in function and comparable in quality to named products, and products complying with BHMA standard referenced. 2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated. B. Opening-Force Requirements: 1. Delayed-Egress Locks: Lock releases within 15 seconds after applying a force of not more than 15 lbf (67 N) for not more than 3 seconds. 2. Latches and Exit Devices: Not more than 15 lbf (67 N) required to release latch. C. Pivot Hinges: BHMA A156.4, Grade 1. 1. Offset-Pivot Hinges: Provide top, bottom, and intermediate offset pivots at each door leaf. D. Mortise Auxiliary Locks: BHMA A156.5, Grade 1. E. Automatic and Self-Latching Flush Bolts: BHMA A156.3, Grade 1. F. Panic Exit Devices: BHMA A156.3, Grade 1, listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305. G. Closers: BHMA A156.4, Grade 1, with accessories required for a complete installation, sized as required by door size, exposure to weather, and anticipated frequency of use; adjustable to meet field conditions and requirements for opening force. H. Weather Stripping: Manufacturer's standard replaceable components. I. Weather Sweeps: Manufacturer's standard exterior-door bottom sweep with concealed fasteners on mounting strip. J. Thresholds: BHMA A156.21, raised thresholds beveled with a slope of not more than 1:2, with maximum height of 1/2 inch (13 mm).</p> <p>2.7 ALUMINUM FINISHES A. Color Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class I, 0.018 min, AA-M12C22A32/A34, Class II, 0.010 min or thicker. 1. Color: Medium bronze.</p>	<p>A. Manufacturers: (Design based on) 1. "Dura-Glide, Series 2000", Stanley Access Technologies, Division of The Stanley Works, (800-STANLEY)</p> <p>B. Alternative Manufacturers: 1. "Unislide OC2-14" (overhead concealed) Besam Automatic Entrance Systems, Inc. (866-237-2687)</p>
B. DOORS	Product (Essex) 707-S	Location Exterior, Back of House	Type Exterior						
END OF SECTION 08150									
SECTION 08200 - WOOD DOORS									
PART 1 - GENERAL									
1.1 SUMMARY									
A. Section Includes: 1. Types of doors required include the following: a. Solid Core Flush Molded Wood Doors Fire-rated (painted) b. Interior wood flush door molded									
1.2 SUBMITTALS									
A. Product Data: Door manufacturer's technical data for each type of door, including details of core and edge construction, trim for openings and louvers, and factory-finishing specifications. B. Shop Drawings: Submit Shop Drawings indicating location and size of each door, elevation of each kind of door, details of construction, location and extent of hardware blocking, fire ratings, requirements for factory finishing and other pertinent data. 1. Submittals shall use the same designations for door and hardware numbers as shown on the Drawings.									
1.3 QUALITY ASSURANCE									
A. Quality Standards: Comply with the following standards: 1. NWWDA Quality Standard: "I.S.-A" Architectural Wood Flush Doors", and I.S.6, "Industry Standard for Wood Stile and Rail Doors" of National Wood Window and Door Association (NWWDA). 2. AWI Quality Standard: "Architectural Woodwork Quality Standards", including Section 1300 "Architectural Flush Doors", and Section 100-5-3 "Moisture Content" of Architectural Woodwork Institute (AWI) for grade of door, core construction, finish and other requirements exceeding those of NWWDA quality standard.									
1.4 PROJECT CONDITIONS									
A. Conditioning: Do not deliver or install doors until building is enclosed, wet work is complete, and conditions for temperature and relative humidity have been stabilized and will be maintained in storage and installation areas during remainder of construction period to comply with the following requirements applicable to Project's geographical location: 1. Referenced AWI quality standard including Section 100-5-1, "Relative Humidity and Moisture Content".									
1.5 SPECIAL WARRANTY									
A. General: Warranties shall be in addition to and run concurrent with, and not be a limitation of, other rights the Owner may have under the Contract Documents.									
PART 2 - PRODUCTS									
2.1 DOORS									
A. INTERIOR FLUSH WOOD DOORS 1. Manufacturers: a. Lynden Doors (360.354.5676) b. Marshallfield (800-869-3667) c. Mohawk Flush Doors, Inc. (717-473-3557) 2. Fire-Rated Solid Core Doors: Comply with the following requirements. a. Faces and AWI Grade: Provide faces and grade to match non-rated doors in same area of building, unless otherwise indicated. 1) Construction: Manufacturer's standard core construction as required to provide fire-resistance rating indicated.									
2.2 INTERIOR WOOD PANEL DOORS									
A. MANUFACTURER DESIGN AROUND: 1. Lynden Door (360-354-5676) 2. FACING: Hardboard, factory finished (painted) 3. TYPES: Molded 4. LOCATIONS: Refer to drawing door schedule. B. CORES: Particle board ANSI A208.1,LDI and Mineral Core C. GLUE: Water-resistant Type II for interior doors. E. THICKNESS: 1-3/4"									
PART 3 - EXECUTION									
3.1 EXAMINATION									
A. Examine installed door frames prior to hanging door.									
3.2 INSTALLATION									
A. Manufacturer's Instructions: Install wood doors to comply with manufacturer's instructions and of referenced AWI standard and as indicated. 1. Install fire-rated doors in corresponding fire-rated frames in accordance with requirements of NFPA No. 80.									
END OF SECTION 08200									
SECTION 08411 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS									
PART 1 - GENERAL									
1.1 SUMMARY									
A. Section Includes: 1. Exterior and interior storefront framing. 2. Storefront framing for punched openings. 3. Exterior and interior manual-swing entrance doors and door frame units.									
1.2 PERFORMANCE REQUIREMENTS									
A. General Performance: Aluminum-framed systems shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction: 1. Movements of supporting structure indicated on Drawings including, but not limited to, story									
1.3 QUALITY ASSURANCE									
A. Certify that windows have been tested in accordance with Architectural Aluminum Manufacturers Association (AAMA) Specification for Performance Class specified complying with the following performance standards: 1. Structural Properties (ASTM E330): Pressure acting inward and outward. Deflection not to exceed 1/175 of span. 2. Water Resistance (ASTM E331): No water penetration at test pressures indicated. 3. Air Leakage (ASTM E283): a. Horizontal Sliding Windows: Maximum 0.37 CFM per foot of crack length of active panel. b. Fixed Windows: Maximum 0.15 CFM per sq. ft. of total exterior surface area. 4. Sound Performance: Complete window assembly shall be tested to meet an STC 45 minimum rating. a. Guestrooms Near Mechanical Condenser Units: Provide triple glazed windows with a higher STC rating where mechanical condenser units are located outside of Guestrooms. Windows in these locations on each of the first and second floors shall be triple glazed. See plans for typical locations. B. Insulating glass shall comply with standard for construction and insulating value as established by: 1. Sealed Insulating Glass Manufacturer's Association (SIGMA). 2. Insulating Glass Certification Council (IGCC). C. Glazing and Sealant: Per manuals published by the Flat Glass Marketing Association (FGMA). Glazing and sealant to match approved colors for all aluminum framing.									
PART 2 - PRODUCTS									
2.1 MATERIALS									
A. Window Units: 1. Manufacturers: a. Quaker. b. Columbia. b. Or equivalent as approved by Owner. B. All fasteners, tools, equipment, and other materials necessary for a complete installation shall be furnished by this Manufacturer. C. Insect Screens: Provide removable insect screen panel for each moveable glazed sash. 1. Screen Fabric: 18 by 16 mesh of 0.013" diameter aluminum wire. Comply with FS-RRW-365, Type VII, except black anodized or "gun metal" coating on wire. 2. Screen Frame: Provide formed or extruded aluminum frames and removable vinyl fabric-retainer spline. a. Finish shall match window. D. Accessories: 1. Stops: For operable windows, provide stops to prevent opening greater than 4". 2. Sills: Manufacturer's standard exterior sills. 3. Trim: Manufacturer's standard. E. Hardware: 1. Sash lock: Manufacturer's standard. 2. Wheels and Sliding Mechanism: Manufacturer's standard. F. Maximum operating force: once sash in motion: 1. Horizontal Sliding Windows: 20 LBF G. Operating sash in guest rooms to be located closest to center of room. H. All windows shall meet egress requirements of minimum clear opening width of 20" and minimum height of 24". Total clear opening area to be minimum of 5.7 square feet.									
2.2 GLASS MATERIALS									
A. Windows shall be glazed as follows: 1. Insulating Glass: Manufacturer's standard low "E" units consisting of manufacturers special design to conform to required STC and thermal ratings, as approved by the Construction Manager. a. Outer Light: Clear Glass (Tempered) b. Inner Light: Clear Glass c. Provide Tempered Glass where shown on Drawings and as required by local Codes and Ordinances. d. Glaze fixed window units with removable metal glazing beads utilizing a pre-shrimed butyl tape at exterior and neoprene wedge at interior. e. Warranty: Ten year 2.3 FINISHES A. Finish on all exposed components shall be manufacturer's premium quality electrostatically applied baked paint finish meeting AAMA 2603 (formally AAMA 603). 1. Color: Medium Bronze. (Verify with Owner).									
END OF SECTION 0820									
SECTION 08710 - DOOR HARDWARE									
PART 1 - GENERAL									
1.1 SUMMARY									
A. Section Includes: 1. Operating and Fixed Aluminum Window Units 2. Perimeter Sealant 3. Glass and Glazing 4. Wood Blocking, Shims, Anchors, Clips, and all accessories necessary for a complete installation. 5. All Aluminum Trim and Closure Pieces 6. All Operable Window and Door Hardware B. Related Documents: 1. Drawings and General Provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to work of this Section. C. Related Sections: 1. Section 07920 – Sealants 2. Section 08410 – Aluminum Entrances and Storefront D. Submittals A. Submit "Letter of Conformance" in accordance with Section 01330. B. Submit Shop Drawings and product data that include wall opening and component dimensions; wall opening tolerances required; anchorage and fasteners; affixed related work; and installation requirements and instructions. C. Manufacturer shall approve Shop Drawings in writing to insure proper product application. D. Please Note: Furnish a valid AAMA "Notice of Product Certification" indicating that the windows for the project conform to AAMA/NWWDA 101/1.S.12 – 97.									
1.2 SUBMITTALS									
A. Submit "Letter of Conformance" in accordance with Section 01330. B. Submit Shop Drawings and product data that include wall opening and component dimensions; wall opening tolerances required; anchorage and fasteners; affixed related work; and installation requirements and instructions. C. Manufacturer shall approve Shop Drawings in writing to insure proper product application. D. Please Note: Furnish a valid AAMA "Notice of Product Certification" indicating that the windows for the project conform to AAMA/NWWDA 101/1.S.12 – 97.									
1.3 QUALITY ASSURANCE									
A. Certify that windows have been tested in accordance with Architectural Aluminum Manufacturers Association (AAMA) Specification for Performance Class specified complying with the following performance standards: 1. Structural Properties (ASTM E330): Pressure acting inward and outward. Deflection not to exceed 1/175 of span. 2. Water Resistance (ASTM E331): No water penetration at test pressures indicated. 3. Air Leakage (ASTM E283): a. Horizontal Sliding Windows: Maximum 0.37 CFM per foot of crack length of active panel. b. Fixed Windows: Maximum 0.15 CFM per sq. ft. of total exterior surface area. 4. Sound Performance: Complete window assembly shall be tested to meet an STC 45 minimum rating. a. Guestrooms Near Mechanical Condenser Units: Provide triple glazed windows with a higher STC rating where mechanical condenser units are located outside of Guestrooms. Windows in these locations on each of the first and second floors shall be triple glazed. See plans for typical locations. B. Insulating glass shall comply with standard for construction and insulating value as established by: 1. Sealed Insulating Glass Manufacturer's Association (SIGMA). 2. Insulating Glass Certification Council (IGCC). C. Glazing and Sealant: Per manuals published by the Flat Glass Marketing Association (FGMA). Glazing and sealant to match approved colors for all aluminum framing.									
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Section Includes:

- All the finish hardware including all screws, bolts, and other devices required to complete the work.
- Lock cylinders for locks specified.
- Miscellaneous hardware.
- Hardware furnished for shop or factory installation on doors and frames.

1.2 REFERENCES

- Perform Work in accordance with the following:
 - ANSI A115.1 AND A115.2
 - ANSI A117.1
 - ANSI 156.2
 - ANSI 156.3
 - ANSI 156.4
 - NFPA 101
 - NFPA 80
 - NFPA 252
 - UL 108
 - UL 305
- Regulatory Requirements:
 - Conform to NFPA 80, and other applicable codes for requirements applicable to fire rated doors and frames.
 - Conform to requirements of ADA (Americans with Disabilities Act)
 - Accessibility: Hardware for doors used by the disabled shall comply with all state and local codes which shall supersede this Section.
- SUBMITTALS
 - Provide Shop Drawings, Product Data, and Cut Sheets.
 - Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
 - Final hardware schedule coordinated with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - Final Hardware Schedule Content: Based on hardware indicated, organize schedule into "hardware sets" indicating complete designations of every item required for each door or opening. Include the following information:
 - Type, style, function, size, and finish of each hardware item.
 - Name and manufacturer of each item.
 - Fastenings and other pertinent information.
 - Location of each hardware set cross referenced to indications on Drawings both on floor plans and in door and frame schedule. Submittals shall use the same designations for door and hardware numbers as shown on the Drawings.

1.3 PRODUCT HANDLING

- Tag each item or package separately with identification related to final hardware schedule, and include basic installation instructions with each item or package.
- Construction Keys: Tagged and plainly marked on face of envelope with the key change number, door designation and all other required information and mailed directly to the Owner.
- Permanent Keys: Identified by lock manufacturer and opening to which they apply. Lock manufacturer shall place each set of keys into an envelope and label same with door numbers for rooms or areas. Mark boxes of keys with project name and location and ship Change Keys, Master Keys, and Grandmaster Keys via prepaid registered mail to Owner as follows:
- Guest Room Security Systems: Guest Room keys, master keys, and maid keys to be keyed in accordance with instructions provided by Owner's Loss Prevention Technical Service Department.
- Packaging of door hardware is responsibility of supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in same container.

1.5 MAINTENANCE

- Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- Hardware manufacturers are specified for each hardware item to establish a standard of quality. In the hardware schedule at the end of this Section, product model numbers are used as part of this description to assist in identifying individual items.
- Items of a particular hardware category, i.e., locksets, closers, hinges shall be of the same manufacturer.

2.2 GENERAL REQUIREMENTS

- Electronic Security System Description

1.1

1. Acceptable Manufacturers:

- Selected by Owner.

- Butt Hinges: Unless otherwise scheduled, shall be five-knuckle, full mortise template, ball bearing type with non-rising loose pin, flat button tip. Exterior hinges, and certain others as scheduled, shall have non-removable pins by use of set screw in the barrel. These are identified in the schedule as "NRP".
 - Acceptable Manufacturers: Ives - McKinney Hinge - Hager
 - Sizes
 - Size of hinges to be standard weight 4-1/2" x 4-1/2" for 1-3/4" doors up to 36" wide; 37" to 48" hinges to be heavy weight unless listed otherwise in hardware sets.
- Standard Locks and Latches: Locks shall utilize standard cutouts to facilitate interchange without further mortising. Strikes for locks and latches shall have only the minimum lip projection required to protect trim. Lock and trim shall conform to ANSI A156.2
 - Acceptable Manufacturers: Schlage AL Series - Sargent 7-Line. Note: All levers must return to within 3/8" of the door
- Exit Devices: Shall be listed under "Panic Hardware" in accident equipment lists of Underwriters Laboratories. Where labeled fire doors are used as exits, they shall be equipped with labeled "Fire Exit Hardware". Exit devices shall conform to ANSI A156.3
 - Acceptable Manufacturers: Von Duprin 98 Series - Sargent 80 Series
- Thresholds at all door usable by the handicapped shall not exceed 1/2" in height above finished floor.
 - Acceptable Manufacturers: National Guard - Reese - Pemko
- Door Closers:
 - Acceptable Manufacturers: LCN 4000 Series, 1460 Series - Sargent 351 Series, 1431 Series
- Door Stops: Wall type door bumpers shall be provided for all openings where conditions permit. In the event a wall type bumper cannot be used, a floor stop shall be provided.
 - Acceptable Manufacturers: Ives - Hager - Rockwood (wall & floor); Glynn Johnson - Risson - Sargent (overhead)
 - Do not furnish aluminum floor stops
 - Adjust height of floor stops to suit undercut of adjacent door.
- Door Viewers: 150 and 190 degree angle of view.
 - Acceptable Manufacturers: Ives - Hager
- Door Guards: Provide all guest room entry door guards with edge guards.
 - Acceptable Manufacturers: Ives - Hager

Protective Plates, Kickplates, Pulls and Trim: Materials:

- Acceptable Manufacturers: Ives - Hager - Rockwood
- Acceptable Manufacturers: Pocket Door Pull - Trimco - No Substitution

1.2

B. Isolation Strip at Exterior Walls: Provide asphalt saturated organic felt or foam gasket.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Installation Standard: ASTM C 754.

3.2 INSTALLING FRAMED ASSEMBLIES

A. Direct Furring:

- Screw to wood framing.
 - Attach to concrete or masonry with stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches (610 mm) o.c.
- B. Z-Furring Members:
- Erect insulation vertically and hold in place with Z-furring members spaced 24 inches (610 mm) o.c.
 - Except at exterior corners, securely attach narrow flanges of furring members to wall with concrete stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches (610 mm) o.c.
 - At exterior corners, attach wide flange of furring members to wall with short flange extending beyond corner, on adjacent wall surface, screw-attach short flange of furring channel to web of attached channel. At interior corners, space second member no more than 12 inches (305 mm) from corner and cut insulation to fit.

3.3 INSTALLING SUSPENSION SYSTEMS

A. Install suspension system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.

END OF SECTION 09221

SECTION 09255 - GYPSUM BOARD ASSEMBLIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
- Gypsum Board, Screw-Attached to Wood Framing and Furring Members, and Required Accessories
- 1.2

1.2 REFERENCES

- Gypsum Association, GA-216 Recommended Specifications for the application and finishing of gypsum board.
- American Iron and Steel Institute (AISI) "Specification for the Design of Cold Formed Steel Structural Members".

1.3 DEFINITIONS

- Gypsum Board Construction Terminology: Refer to ASTM C-11 for definitions of terms for gypsum board construction not otherwise defined in this Section or other referenced standards.

1.4 QUALITY ASSURANCE

- Fire-Resistance Ratings: Where indicated, provide materials and construction which are identical to those of assemblies whose fire-resistance rating has been determined per ASTM E-119 by a testing and inspecting organization acceptable to authorities having jurisdiction.
 - Provide fire-resistance-rated assemblies identical to those indicated by reference to GA-600 "Fire Resistance Design Manual", to design designations in U.L. "Fire Resistance Directory", to FM's "Approval Guide, Building Products", or in listing of other testing and agencies acceptable to authorities having jurisdiction.
- Sound Transmission Characteristics: For gypsum board assemblies indicated to have STC ratings, provide materials and construction identical to those of assemblies whose STC ratings were determined per ASTM E 90 and classified per ASTM E 413 by a qualified independent testing agency.
- Fire Resistance: Provide gypsum board assemblies with fire-resistance ratings indicated

PART 2 - PRODUCTS

2.1 GYPSUM BOARD PRODUCTS

- Manufacturers:
 - G-P Gypsum Corporation, Georgia-Pacific Company (404-652-4129)
 - National Gypsum Company, Gold Bond Building Products Div. (800-628-4662)
 - United States Gypsum Company (312-606-5589)
- General: Provide gypsum board of types indicated in maximum lengths available that will minimize joints in each area and correspond with support system indicated.
 - Thickness: Provide gypsum board in widths of 48 inches and thickness indicated or, if not otherwise indicated, in 5/8 inch thickness to comply with ASTM C 840 for application system and support spacing indicated.

- Sound Board Manufacture Celotex Blue Board: 1/2" thick. See wall types.
- Sound stop: Celotex.

C. Gypsum Wallboard: ASTM C 36 and as follows:

- Type: XP, Water-Resistant for all Guest Room toilet rooms walls and other locations as shown.
 - Type: Type X where required for fire-resistance-rated assemblies
 - Edges: Tapered and Finished (rounded or beveled) for Preflating
- Tile-Backer Boards
 - Glass-Mat, Water-Resistant Gypsum Backing Board: ASTM C 1178, of type and thickness indicated below, behind tub and shower units:
 - Type and Thickness: Type X, 5/8 inch thick, where required for fire-resistance-rated assemblies and where indicated.
 - Manufacturers:
 - "Dens-Shield Tile Backer"; G-P Gypsum Corporation (404-652-4129)

2.2 TRIM ACCESSORIES

- Accessories for Interior Installation: Corner beads, edge trim, and control joints complying with ASTM C 1047 and requirements indicated below:
 - Material: Formed metal, with metal complying with the following requirement:
 - Sheet steel zinc-coated by hot-dip process.
 - Shapes indicated below by reference to Fig. 1 designations in ASTM C 1047:
 - Cornerbead on outside corners, unless otherwise indicated.
 - LC-bead (J-Bead) with both face and back flanges; face flange formed to receive joint compound. Use LC-beads at exposed panel edges unless otherwise indicated.
 - L-bead with face flange only; face flange formed to receive joint compound. Use L-bead where indicated.
 - U-bead with face and back flanges; face flange formed to be left without application of joint compound. Use U-bead where indicated.
 - One-piece control joint formed with V-shaped slot, with removable strip covering slot opening. Use where indicated.

2.3 ACOUSTICAL SEALANT

- Manufacturers:
 - Acoustical Sealant for Exposed and Concealed Joints:
 - Manufacturers:
 - "AC-20 FTR Acoustical and Insulation Sealant"; Pecos Corp. (800-523-6688)
 - "SHEETROCK Acoustical Sealant"; United States Gypsum Co.
 - Acoustical Sealant for Concealed Joints:
 - Manufacturers:
 - "BA-98"; Pecos Corp. (800-523-6688)

2) Tremco Acoustical Sealant"; Tremco, Inc. (800-321-7906)

PART 3 - EXECUTION

3.1 APPLICATION AND FINISHING OF GYPSUM BOARD, GENERAL

A. Gypsum Board Application and Finishing Standards: Install and finish gypsum board to comply with ASTM C-840 and GA-216.

3.2 FINISHING OF GYPSUM BOARD ASSEMBLIES

- See Owner's requirements in General Notes for prep of Gypsum Board to receive paint texture and vinyl wall covering.
- General: Apply joint treatment at gypsum board joints (both directions), flanges of corner bead, edge trim, and control joints, penetrations, fastener heads, surface defects and elsewhere as required to prepare work for decoration and level of gypsum board finish indicated.
 - Prefill open joints, rounded or beveled edges, and damaged areas, using setting-type joint compound.
 - Apply joint tape over gypsum board joints except those with trim accessories having concealed face flanges not requiring taping to prevent cracks from developing in joint treatment at flange edges.
- Levels of Gypsum Board Finish: Provide the following levels of gypsum board finish per GA-214.
 - Level 1 for ceiling plenum areas, concealed areas, and where indicated, unless a higher level of finish is required for fire-resistive-rated assemblies and sound-rated assemblies.
 - Level 2 where water-resistant gypsum backing board panels form substrates for tile, and where indicated.
 - Level 4 for gypsum board surfaces indicated to receive light-textured finishes, wall coverings, and flat paints over light textures.
 - Level 4 for gypsum board surfaces indicated to receive gloss and semi-gloss enamels, non textured flat paints, and where indicated.

D. For Level 4 gypsum board finish, embed tape in finishing compound plus two separate coats applied over joints, angles, fastener heads, and trim accessories using one of the following combinations of joint compounds (not including prefill), and sand between coats and after last coat.

E. Where Level 2 gypsum board finish is indicated, apply joint specified for first coat in addition to embedding coat.

F. Where Level 1 gypsum board finish is indicated, apply joint compound specified for embedding coat.

G. Allow not less than 24 hours drying time between coats.

END OF SECTION 09255

SECTION 09512 - ACOUSTICAL TILE CEILING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
- Suspended Metal Grid Systems Complete With Wall Trim
 - Ceiling Tiles
- B. Related Documents:
- Drawings and General Provisions of Contract, including General and Supplementary Conditions.
- 2.2 SUBMITTALS
- Submit "Letter of Conformance in accordance with Section 01330.
- 1.3 REPLACEMENT STOCK
- Extra Materials: After ceiling installation has been completed, deliver to the owner replacement material for material installed. Furnish products which precisely match installed products. Protect with appropriate packaging and provide clear, legible labels.
 - Acoustical Lay-In Panels: Furnish full-sized panels in quantities not less than 2 percent of quantity of panels installed, of each type, or one full carton as minimum.

PART 2 - PRODUCTS

2.1 STRUCTURAL EXPOSED SUSPENSION SYSTEM

- Manufacturers:
 - Design for this system is based on use of USG Interiors (Donn Products).
 - System used shall be that upon which design was based or approved substitution by:
 - Armstrong World Industries, Inc. (888-Ceilings)
 - Chicago Metallic Corp. (800-323-7164)

B. Grids for ceiling tile noted below:

- ACT-1, 2 & 3: Armstrong 15/16", White.
- C. General: The systems shall be such that the ceiling panels may be removed without damage; that the main runner and cross runners may be removed and replaced without deforming the runners or disturbing the balance of the grid system.

2.2 ACOUSTICAL MATERIALS

- Manufacturers:
 - Armstrong
- Type: ceiling panels, recessed edges.
 - ACT-1: Armstrong #626 2x2 Cirrus 15/16", Regular
 - ACT-2: In community storage and laundry: : Armstrong #608 2x4 Ceramaguard 15/16" Grid 3.

2.3 LIGHTING: Contractor shall be responsible for providing sufficient support on grid systems to support light fixtures. All fixtures shall be supported at each and every corner.

PART 3 - EXECUTION

3.1 INSTALLATION

- General:
 - Install acoustical panel, suspension system and accessories in compliance with manufacturer's instructions and requirements of ASTM C635 and C636.
 - Install ceiling system in a true and even plane with straight line courses laid out symmetrically about center lines of area or as indicated. Border tile shall be minimum 6" wide and neatly fit against vertical surfaces to form a tight fit.
- Lay-In Ceiling System:
 - Hanging main tees parallel in a flat plane by means of #10 gauge wire hangers attached to construction above. Hangers shall be spaced not over 4'-0" along the main tees and within 6" of the ends and splices of main tees, and other interruptions. Main tees shall be spaced 2'-0" o.c. Cross tees shall be interlocked to main tees and spaced as required to support tile edges.
 - Install wall angle at perimeter of walls, partitions, columns, pipes, and other obstructions that extend above the ceiling. Securely attach with appropriate fastening devices at maximum 16" o.c.
 - Insert ceiling panels, installing hold down clips on panels extending over partitions and

where required to maintain fire ratings or noted.

4. System shall comply to all seismic reinforcement and local codes.

3.2 CLEANING UP: Completely remove all finger prints and traces of soil and damage from the surfaces of grid and acoustical materials; using only those cleaning materials recommended for that purpose by the manufacturer of the material being cleaned. Replace units which are damaged or improperly installed.

END OF SECTION 09512

SECTION 09900 - PAINTS AND COATINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
- This Section includes surface preparation and the application of paint materials to exposed interior and exterior items and surfaces scheduled. Surface preparation, prime and finish coats specified are in addition to shop-priming and surface treatments.
 - Paint all exposed surfaces, whether or not colors are designated, except where a surface or material is indicated not to be painted or is to remain natural. Where an item or surface is not mentioned, paint the same color as similar adjacent materials or surfaces. If color or finish is not designated, the Owner will select from standard colors or finishes available.
 - Except in mechanical and electrical rooms, paint all exposed plumbing, heating, and electrical material to match the walls and ceilings of that area unless noted otherwise. This shall include, but not be limited to, pipes, insulation, conduit ducts, access panels, grilles, diffusers, whether the adjacent surfaces receive paint or not, and the like. Include dampers or baffles behind grilles.
 - Painting is not required on pre-finished items, finished metal surfaces, concealed surfaces, operating parts, or labels.
 - Labels: Do not paint over Underwriter's Laboratories, Factory Mutual or other code-required labels, or equipment name, identification, performance rating, or nomenclature plates.

1.2 DEFINITIONS: "Paint" includes coating systems materials, primers, emulsions, enamels, stains, sealers and fillers, and other applied materials whether used as prime, intermediate or finish coats.

1.3 MATERIALS: Except where noted otherwise, all finishing materials, thinners, etc., shall be the best quality, first line materials as manufactured by:

- Manufacturer:
 - Glides
 - IGI (Scheduled)
- Benjamin Paint Co.
- Sherwin Williams Co.

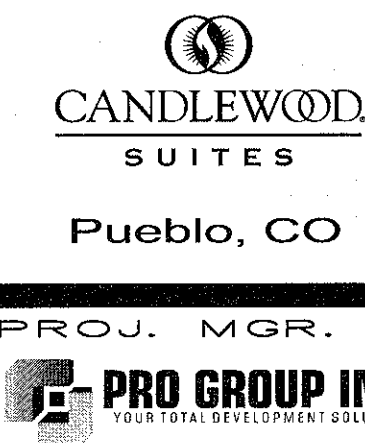
1.4 Raw linseed oil, turpentine, benzene, glass oil, or coal oil shall not be used in any of the materials for painting work.

PART 2 - PRODUCTS

2.1 PAINT SCHEDULE

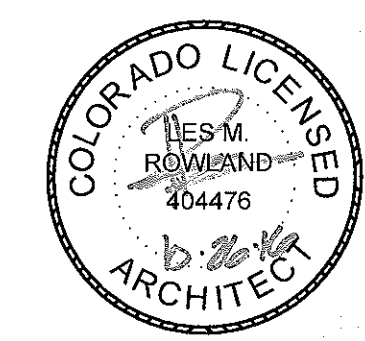
- A. Surfaces not requiring painting:
- Dry stacked stone.
 - Prefinished surfaces and items, except where specifically indicated otherwise.
 - Concealed ductwork, conduit and piping.
 - Prefinished lap siding.
- B. Exterior Surfaces: Number of coats specified are minimum:
- Ferrous metals, alkyl enamel:
 - First Coat: No. 4160 Series DEVGUARD Multi-Purpose Tank & Structural Primer.
 - Second Coat: No. 4208 Series DEVFLEX Interior/Exterior Waterborne Acrylic Gloss Enamel.
 - Galvanized metals and aluminum, alkyl enamel:
 - First Coat: No. 4120 Series DEVGUARD All Purpose Metal & Galvanized Primer.
 - Second Coat: No. 4208 Series DEVFLEX Interior/Exterior Waterborne Acrylic Gloss Enamel.
 - Third Coat: No. 4208 Series DEVFLEX Interior/Exterior Waterborne Acrylic Gloss Enamel.
- C. Interior surfaces: number of coats specified are minimum:
- Wood for painted finish, latex enamel:
 - First Coat: No. GL 3210 Griper Interior Latex Enamel Undercoat.
 - Second Coat: No. 1416 Series ULTRA-HIDE Latex Semi-Gloss Interior Wall & Trim Enamel.
 - Third Coat: No. 1416 Series ULTRA-HIDE Latex Semi-Gloss Interior Wall & Trim Enamel.
 - Open-grain wood for transparent finish, polyurethane:
 - First Coat: No. 1700 Series WOODPRIDE Interior Penchrome Stain (VOC).
 - Second Coat: Wood Filler.
 - Third Coat: No. 1908 WOODPRIDE Polyurethane Gloss.
 - Fourth Coat: No. 1902 WOODPRIDE Polyurethane Satin.
 - Gypsum wallboard to receive wallcovering:
 - First Coat: No. 1110 ULTRA-HIDE Alkyd Prime-N Finish.
 - Gypsum wallboard ceilings, Flat Latex: (Guestroom and Common Area)
 - First Coat: No. 1030 ULTRA-HIDE PVA Interior Primer-Sealer General Purpose Wall Primer.
 - Second Coat: No. 1210 Series ULTRA-HIDE Latex Flat Interior Wall Paint "THE WORKHORSE".
 - Third Coat: No. 1210 Series ULTRA-HIDE Latex Flat Interior Wall Paint "THE WORKHORSE".
 - Gypsum wallboard, Latex Eggshell: (Painted Walls)
 - First Coat: No. 1030 ULTRA-HIDE PVA Interior Primer-Sealer General Purpose Wall Primer.
 - Second Coat: No. 1412 Series ULTRA-HIDE Latex Eggshell Interior Wall & Trim Enamel.
 - Third Coat: No. 1412 Series ULTRA-HIDE Latex Eggshell Interior Wall & Trim Enamel.
 - Gypsum wallboard, Flat Latex: (Bathroom Ceilings)
 - First Coat: No. 1030 ULTRA-HIDE PVA Interior Primer-Sealer General Purpose Wall Primer.
 - Second Coat: No. 1413 ULTRA-HIDE Latex Flat Interior Wall & Trim Enamel.
 - Third Coat: No. 1413 ULTRA-HIDE Latex Flat Interior Wall & Trim Enamel.
 - Gypsum wallboard at wet/high abuse areas, epoxy-polyamide.
 - First Coat: No. 3210 Aquacrylic GRIPPER Stain Killer Primer-Sealer.
 - Second Coat: No. 4508 Series TRU-GLAZE Chemical Resistant Epoxy Coating.
 - Third Coat: No. 4508 Series TRU-GLAZE Chemical Resistant Epoxy Coating.
 - Ferrous and galvanized metals and aluminum, Satin:
 - First Coat: No. 4020 DEVFLEX Flat Interior/Exterior Waterborne Primer & Finish.
 - Second Coat: No. 1416 Series ULTRA-HIDE Latex Semi-Gloss Interior Wall & Trim Enamel.
 - Third Coat: No. 1416 Series ULTRA-HIDE Latex Semi-Gloss Interior Wall & Trim Enamel.
 - Gypsum wallboard to receive textured coating:
 - Primer: As recommended by textured coating manufacturer.
 - Textured Coating:
 - Concrete Floors - Mechanical Rooms (ICI Coatings):
 - Prime Coat: Floor paint, latex, low gloss (maximum Gloss Level 3).
 - Intermediate Coat: Floor paint, latex, low gloss (maximum Gloss Level 3).
 - Topcoat: Floor paint, latex, low gloss (maximum Gloss Level 3)
 - Vinyl Wall Paste: Roman Pro 880, Ultra-Premium Clear, Strippable Adhesive, 12405, 12401

2.2 COLOR SAMPLES: The Contractor shall furnish samples of all finishes in triplicate and obtain the approval of color match before starting work. Final colors must match exactly with the approved sample. Colors selection and quantity of different colors, as shown on Drawings, and approved by Owner's Representative.



PROJ. MGR
 PRO GROUP INC.
 208 E. Holly Boulevard
 Brandon, South Dakota 57005
 Phone: 605.336.8197
 Fax: 605.582.3894

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ARCHITECT:
 LES ROWLAND
 212 E. Holly Boulevard
 Brandon, South Dakota 57005

Architectural Specifications

PROJECT NO.
 W16006

DRAWN BY:
 CDS

CHECKED BY:
 WLP

DATE:
 10.26.2016

SHEET:
 AS9

PART 3 - EXECUTION

- 3.1 PRIME COATS: Before application of finish coats, apply a prime coat as recommended by the manufacturer to material required to be painted or finished, and has not been prime coated by others. All prime coats to be backrolled.
 - A. Tinting of primers will not be permitted.
 - B. Re-coat primed and sealed substrates where there is evidence of suction spots or unsealed areas in the first coat to assure a finish coat with no burn-through or other defects due to insufficient sealing.
 - C. Back Priming
 - 1. All wood trim shall be back primed before installation. Spot prime all ends of trim.
- 3.2 BRUSH APPLICATION: Brush-out and work brush coats into surfaces in an even film. Eliminate cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Draw neat glass lines and color breaks. Apply primers and first coats by brush unless manufacturer's instructions permit use of mechanical applicators.
- 3.3 MECHANICAL APPLICATIONS: Mechanical methods for paint application will ONLY be permitted by written permission of the Architect. All suite entry doors must be brush applied.
- 3.4 COMPLETED WORK: Match approved samples for color, texture and coverage. Remove, refinish or repaint work not in compliance with specified requirements.
- 3.5 CLEANING
 - A. At the end of each work day, remove empty cans, rags, rubbish, and other discarded paint materials from the site.
 - B. Upon completion of painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing, scraping, or other proper methods, using care not to scratch or damage adjacent finished surfaces.
 - C. Protect work of other trades, whether to be painted or not, against damage from painting. Correct damage by cleaning, repairing or replacing, and repainting, as acceptable to Architect.
 - D. Provide "Wet Paint" signs to protect newly-painted finishes. Remove temporary protective wrappings provided by others for protection of their work after completion of painting operations. At completion of construction activities of other trades, touch-up and restore damaged or defaced painted surfaces.

END OF SECTION 09900

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SECTION 09960 - INTUMESCENT COATINGS FOR STRUCTURAL STEEL APPLICATIONS

PART 1 PRODUCTS

- 1.1 SECTION INCLUDES
 - A. Intumescent coatings.
- 1.2 RELATED SECTIONS
 - A. Section 05120: Structural steel and framing with reference to primer receiving fire protection materials.
- 1.3 REFERENCES
 - A. ANSI A2.1 – Standard Test Method for Fire Tests of Building Construction and Materials.
 - B. National Fire Protection Association (NFPA):
 - 1. NFPA 251 – Standard Test Method for Fire Tests of Building Construction and Materials.
 - 2. NFPA 255- Standard Test Method for Surface Burning Characteristics of Building Materials.
 - C. Uniform Building Code (UBC):
 - 1. UBC 7-1-3 Standard Test Method for Fire Test of Building Construction and Materials.
- 1.4 SUBMITTALS
 - A. Submit under provisions of Section 01300.
 - B. Product Data: Manufacturer's data sheets on each product to be used.
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- 1.5 DELIVERY, STORAGE, AND HANDLING
 - A. Deliver and store all materials in manufacturer's unopened, labeled packaging until ready for installation.
 - B. Store above 65 degrees F (18 degrees C) for 48 hours prior to application.
- 1.6 PROJECT CONDITIONS
 - A. Maintain environmental conditions (temperature, humidity, and ventilation within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
 - B. Do not expose applied product to rain, dew, snow, heavy fog, condensation or other forms of accumulated moisture or precipitation before having dried completely and a top coat of acrylic enamel, designed for the ambient environment, has been applied and allowed to dry.

PART 2 PRODUCTS

- 2.1 MANUFACTURERS
 - A. Acceptable Manufacturer: Contego International, Carmel, IN 46032; Toll Free Tel: 800.434.6444, Tel: 317.580.0665; Email: info@contegointernational.com
 - B. Substitutions: Not permitted.
- 2.2 MATERIALS
 - A. Contego Passive Fire Barrier Intumescent Latex Paint: As manufactured by Contego International.
 - 1. Color: White
 - 2. VOC (Less Water): 0 Grams/Litre.
 - 3. Weight/US Gallon: 10.8 lbs. (11.2 for HS Version)
 - 4. Hazardous Ingredient: N/A
 - 5. WHMIS Class: Not Controlled.
 - 6. Flammability: Not Flammable.
 - 7. Weight Solids: 52.93 percent. (62.45 for HS Version)
 - 8. Volume Solids: 43.7 percent (68.3% for HS Version)
 - 9. Specific Gravity: 1.29 (1.67 for HS Version)
 - 10. pH Range: 8.0-8.5
 - B. Testing Compliance:
 - 1. ASTM E 119/UL-263/UBC 7.1, ANSI A2.1/ULC-S01/NFPA 251:
 - a. Results: Ranged from 103 to 121 minutes. STEEL "I" Beams Unrestrained.
 - b. Steel Plate: ASTM 119 UL-263 ON .250 Plate 73 mil coating of Contego achieved 126 minutes (1000 degrees F, 538 degrees C unexposed surface) Unrestrained.
 - 2. NFPA 286, Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room. Met all criteria.

PART 3 EXECUTION

- 3.1 INSTALLATION
 - A. Installation General: Install in accordance with Manufacturer's printed instructions.
 - 1. Product must be mixed thoroughly before application. Manufacturer recommends using a mixing paddle with power drill for a minimum of three 3 minutes at highest speed. Concentrate on bottom of bucket periodically moving to the middle and top areas.
 - 2. Product is properly mixed when:
 - a. There are no solids attached to the paddle after mixing at the bottom.
 - b. Paint shows a uniform consistency when mixed at the surface.
 - 3. Do not dilute or thin this product with any other liquid.
 - B. Priming Requirements:
 - 1. Bare steel must always be primed with red oxide primer or manufacturer approved equivalent prior to applying the Contego product.
 - C. Application: Apply intumescent paints according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.
 - D. Application Procedures: Apply coatings by brush, roller, spray, or other methods according to manufacturer's written instructions.
 - E. Coverage: Coverage varies depending on the thickness of the Contego coating applied and that depends on the weights of the steel, whether or not it is restrained, whether or not it is top coated and the fire resistance rating needed. The dry thickness of each coat depends on the wet thickness applied. Structural steel requires between 5 and 170 dry mils, so multiple coats may be required as shown in our Hp/A regression tables for either version of the product being used. Generally, you can apply a maximum of 20 wet mils using our Type R before running the risk of sags or runs with the Regular Version and 35 mils with the HS version, but your actual maximum thickness also depends on ambient temperature and humidity. Keep in mind that it is difficult or impossible to lay down the maximum wet film thickness using a brush, roller or mitt. To maximize your wet film thickness per pass, use

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- a spray gun as discussed in this section.
- F. Structural Steel: A final dry film coating of 5 to 170 mil (0.25 to 4.32 mm) is recommended for adequate protection. The thickness needed depends on the W/D, Hp/A or A/P ratios of the steel being protected. Under proper conditions it is possible to achieve this with multiple coats of 20 mil (0.50 mm) wet (36 mils wet for the HS Version). Under less than ideal conditions, it may be necessary to apply more at a lesser thickness until the total required dry film thickness is achieved. In all cases the next coat may be applied when the prior is completely dry.

END OF SECTION 09960

SECTION 11175 - LINEN CHUTES

PART 1 - GENERAL

- 1.1 SUBMITTALS:
 - A. Shop Drawings: Submit shop drawings indicating chute and door sizes, construction, routing of chutes, roof vent mounting, sprinkler locations, accessories and installation details.
 - B. Product Data: Submit manufacturer's product data indicating materials, selections, finishes, sizes and installation requirements. Indicate interface with and attachment to adjacent construction.
- 1.2 QUALITY ASSURANCE:
 - A. Applicable Standards: National Fire Protection Association (NFPA), standards as referenced herein.

PART 2 - PRODUCTS

- 2.1 MANUFACTURERS:
 - A. Acceptable manufacturers; subject to compliance with specified requirements:
 - 1. Cutler Manufacturing Corp.
 - 2. Midland Metalcraft Co.
 - 3. Wilkinson Co., Inc.
- 2.2 LINEN CHUTE:
 - A. Characteristics:
 - 1. Sizes: 2'-0" minimum diameter chute, with 1'-6" by 1'-6" intake door and 2'-0" by 3'-0" discharge door sizes as indicated on the drawings.
 - 2. Chute Material: Minimum 16 ga. Aluminumized steel.
 - 3. Intake Doors: Side-hinged, manually-operated, 1-1/2 hour "B" label, stainless steel door
 - 4. Discharge Door: Direct discharge hopper type, self-closing, 1-1/2 hour "B" label door with fusible link.
 - 5. Venting: Meeting NFPA 82, extending a minimum of 4'-0" above the roof of the building, complete with screen.
 - 6. Sprinkler Heads: Provide sprinkler heads at alternate floor levels, at top of intake openings and at bottom of chute. Discharge room shall be fully sprinklered. Sprinkler system shall comply with NFPA 13.
 - 7. Fire Resistance Ratings:
 - a. Doors: As herein specified.
 - b. Chute Chase: Two hour rated; refer to drawings.
 - c. Chute Access Room: One hour rated; refer to drawings.
 - d. Chute Termination Room: One hour rated; refer to drawings.

END OF SECTION 11175

SECTION 14210 - ELECTRIC TRACTION ELEVATORS

PART 1 - GENERAL

- 1.1 SUMMARY
 - A. This Section specifies electric traction elevators.
 - B. Work Required:
 - 1. The work required under this section consists of all labor, materials and services required for the complete installation (including operational verification) of all the equipment required for the elevator(s) as herein specified.
 - 2. All work shall be performed in a first class, safe and workmanlike manner.
 - 3. In all cases where a device or part of the equipment is herein referred to in the singular, it is intended that such reference shall apply to as many of such devices or parts as are required to make complete installation.
- C. Applicable Codes: Comply with applicable building and elevator codes at the project site, including but not limited to the following:
 - 1. ANSI A117.1, Buildings and Facilities, Providing Accessibility and Usability for Physically Handicapped People.
 - 2. ADAAG, Americans with Disabilities Act Accessibility Guidelines.
 - 3. ANSI/NFPA 70, National Electrical Code.
 - 4. ANSI/NFPA 80, Fire Doors and Windows.
 - 5. ASME/ANSI A17.7, Safety Code for Elevators and Escalators.
 - 6. ANSI/UL 10B, Fire Tests of Door Assemblies.
 - 7. CAN/CSA C22.1, Canadian Electrical Code.
 - 8. CAN/CSA-B44, Safety Code for Elevators and Escalators.
 - 9. EN 12016 (May 1998): "EMC Product Family Standards for lifts, escalators, and passenger conveyors Part 2 - Immunity"
 - 10. Local Building Codes
 - 11. All other local applicable codes.

END OF SECTION 14210

PART 2 - PRODUCTS

- 2.01 DESIGN AND SPECIFICATIONS
 - A. Approved Manufacturers:
 - 1. Kone
 - 2. Schindler
 - B. Provide machine-roomless Gen2™ traction passenger elevators from Otis Elevator Company. The control system and car design based on materials and systems manufactured by Otis Elevator Company. Specifically, the system shall consist of the following components:
 - 1. Controller located entirely inside the hoistway. No extra machine room or control closet space required.
 - 2. An AC gearless machine using embedded permanent magnets mounted at the top of the hoistway.
 - 3. Polyurethane Coated-Steel Belts for elevator hoisting purposes.
 - 4. Regenerative drive that captures normally wasted energy and feeds clean power back into the building's power grid.
 - 5. LED lighting standing in ceiling lights and elevator fixtures.
 - 6. Sleep mode operation for LED ceiling lights and car fan.
- C. Approved Installer: Otis Elevator Company

EQUIPMENT: CONTROLLER COMPONENTS

- A. Controller: A microcomputer based control system shall be provided to perform all of the functions of safe elevator operation. The system shall also perform car and group operational control.
- B. Drive: A Variable Voltage Variable Frequency AC drive system shall be provided. The drive shall be set up for regeneration of AC power back to the building grid.

EQUIPMENT: MACHINE AND GOVERNOR

- A. Machine: AC gearless machine, with a synchronous permanent-magnet motor, dual solenoid service and emergency disc brakes, mounted at the top of the hoistway.
- B. Governor: The governor shall be a tension type car-mounted governor.
- C. Buffers, Car and Counterweight: Polyurethane type buffers shall be used.
- C. Hoistway Operating Devices:
 - 1. Emergency stop switch in the pit
 - 2. Terminal stopping switches.
- D. Positioning System: Consists of an encoder, reader box, and door zone vans.
- E. Guide Rails and Attachments: Guide rails shall be Tee-section steel rails with brackets and fasteners. Side counterweight arrangements shall have a dual-purpose bracket that combines both counterweight guide rails, and one of the car guide rails to building fastening.
- F. Coated-Steel Belts: Polyurethane coated belts with high-tensile-grade, zinc-plated steel cords and a flat profile on the running surface and the backside of the belt. All driving sheaves and

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Car Lighting Power Supply: 120 Volts, Single-phase, 15 Amp, 60 Hz.

- R. Machine Location: Inside the hoistway at the top of the hoistway.
- S. Signal Fixtures: Manufacturer's standard with metal button targets (exc. CA).
- T. Controller Location: Machine-Roomless Controller(s) shall be located at the front opening of the top terminal landing in entrance frame.
- U. Performance:
 - 1. Car Speed: ± 3 % of contract speed under any loading condition or direction of travel.
 - 2. Car Capacity: Safely lower, stop and hold up to 120% of rated load. (code required).
- V. Operation: Duplex Collective Operation- Using a microprocessor-based controller, the operation shall be automatic by means of the car and hall buttons. In the absence of system activity, one car can be made to park at the pre-selected main landing. The other (free) car shall remain at the last landing served. Only one car shall respond to a hall call. If either car is removed from service, the other car shall immediately answer all hall calls, as well as its own car calls.
- W. Operating Features – Standard
- X. Operation Features – Optional (VERIFY WITH OWNER)
- Y. Door Control Features:

- 1. Door control to open doors automatically when car arrives at a landing in response to a normal hall or car call.
- 2. Elevator doors shall be provided with a reopening device that will stop and reopen the car door(s) and hoistway door(s) automatically should the door(s) become obstructed by an object or person.
- 3. Door protection shall consist of a two dimensional, multi-beam array projecting across the car door opening.
- 3. Door nudging operation to occur if doors are prevented from closing for an adjustable period of time.

Z. Provide equipment according to seismic zone

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's product data for each system proposed for use. Include the following:
 - 1. Signal and operating fixtures, operating panels and indicators.
 - 2. Cab design, dimensions and layout.
 - 3. Hoistway-door and frame details.
- 4. Electrical characteristics and connection requirements.
- 5. Expected heat dissipation of elevator equipment in hoistway (BTU).
- 6. Color selection chart for Cab and Entrances.
- B. Shop Drawings: Submit approval layout drawings. Include the following:
 - 1. Car, guide rails, buffers and other components in hoistway.
 - 2. Maximum rail bracket spacing.
 - 3. Maximum loads imposed on guide rails requiring load transfer to building structure.
 - 4. Clearances and travel of car.
 - 5. Clear inside hoistway and pit dimensions.
 - 6. Location and sizes of access doors, hoistway entrances and frames.
- C. Operations and Maintenance Manuals: Provide manufacturer's standard operations and maintenance manual.

1.04 QUALITY ASSURANCE

- A. Manufacturer: Elevator manufacturer shall be ISO 9001 certified.
- B. Installer: Elevators shall be installed by the manufacturer.
- C. Permits, Inspections and Certificates: The Elevator Contractor shall obtain and pay for necessary Municipal or State inspection or permits as required by the elevator inspection authority, and make such tests as are called for by the regulators or such authorities. These tests shall be made in the presence of such authorities or their authorized representatives.

1.06 WARRANTY

- A. The elevator contractor's acceptance is conditional on the understanding that their warranty covers defective material and workmanship. The warranty period shall not extend longer than one (1) year from the date of completion or acceptance thereof by beneficial use, whichever is earlier, of each elevator. The warranty excludes: ordinary wear and tear, improper use, vandalism, abuse, misuse, or neglect or any other causes beyond the control of the elevator contractor and this express warranty is in lieu of all other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose.

PART 2 - PRODUCTS

- 2.01 DESIGN AND SPECIFICATIONS
 - A. Approved Manufacturers:
 - 1. Kone
 - 2. Schindler
 - B. Provide machine-roomless Gen2™ traction passenger elevators from Otis Elevator Company. The control system and car design based on materials and systems manufactured by Otis Elevator Company. Specifically, the system shall consist of the following components:
 - 1. Controller located entirely inside the hoistway. No extra machine room or control closet space required.
 - 2. An AC gearless machine using embedded permanent magnets mounted at the top of the hoistway.
 - 3. Polyurethane Coated-Steel Belts for elevator hoisting purposes.
 - 4. Regenerative drive that captures normally wasted energy and feeds clean power back into the building's power grid.
 - 5. LED lighting standing in ceiling lights and elevator fixtures.
 - 6. Sleep mode operation for LED ceiling lights and car fan.
- C. Approved Installer: Otis Elevator Company

EQUIPMENT: CONTROLLER COMPONENTS

- A. Controller: A microcomputer based control system shall be provided to perform all of the functions of safe elevator operation. The system shall also perform car and group operational control.
- B. Drive: A Variable Voltage Variable Frequency AC drive system shall be provided. The drive shall be set up for regeneration of AC power back to the building grid.

EQUIPMENT: MACHINE AND GOVERNOR

- A. Machine: AC gearless machine, with a synchronous permanent-magnet motor, dual solenoid service and emergency disc brakes, mounted at the top of the hoistway.
- B. Governor: The governor shall be a tension type car-mounted governor.
- C. Buffers, Car and Counterweight: Polyurethane type buffers shall be used.
- C. Hoistway Operating Devices:
 - 1. Emergency stop switch in the pit
 - 2. Terminal stopping switches.
- D. Positioning System: Consists of an encoder, reader box, and door zone vans.
- E. Guide Rails and Attachments: Guide rails shall be Tee-section steel rails with brackets and fasteners. Side counterweight arrangements shall have a dual-purpose bracket that combines both counterweight guide rails, and one of the car guide rails to building fastening.
- F. Coated-Steel Belts: Polyurethane coated belts with high-tensile-grade, zinc-plated steel cords and a flat profile on the running surface and the backside of the belt. All driving sheaves and

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- deflector sheaves should have a crowned profile to ensure center tracking of the belts. A continuous 24/7 monitoring system using resistance based technology has to be installed to continuously monitor the integrity of the coated steel belts and provide advanced notice of belt wear.
- G. Governor Rope: Governor rope shall be steel and shall consist of at least eight strands wound about a sisal core center.
- H. Fascia: Galvanized sheet steel shall be provided at the front of the hoistway.
- I. Hoistway Entrances:
 - 1. Frames: Entrance frames shall be of bolted construction for complete one-piece unit assembly. All frames shall be securely fastened to fixing angles mounted in the hoistway and shall be of UL fire rated steel.
 - 2. Sills shall be extruded Aluminum.
 - 3. Doors: Entrance doors shall be of metal construction with vertical channel reinforcements.
 - 4. Fire Rating: Entrance and doors shall be UL fire rated for 1-1/2.
 - 5. Entrance Finish: Stainless Steel
 - 6. Entrance marking plates: Entrance jambs shall be marked with 4" x 4" (102 mm x 102 mm) plates having raised floor markings with Braille located adjacent to the floor marking. Marking plates shall be provided on both sides of the entrance.
 - 7. Sight Guards: Black sight guards will be furnished with all doors.

2.04 EQUIPMENT: CAR COMPONENTS

- A. Car Frame and Safety: A car frame fabricated from formed or structural steel members shall be provided with adequate bracing to support the platform and car enclosures. The car safety shall be integral to the car frame and shall be Type "B", flexible guide clamp type.
- A. Cab: Steel shell cab with laminated vertical removable panels. Color to be selected from standard manufacturer's catalog of choices. Brushed stainless steel finished vertical trim pieces optional. Brushed Steel Finish finished base plate located at top and bottom.
- B. Car Front Finish: Satin Stainless Steel
- C. Car Door Finish: Satin Stainless Steel
- D. Ceiling Type: Flush steel ceiling with 4 LED lights in a real white (EWO) finish.
- E. Emergency Car Lighting: An emergency power unit employing a 6-volt sealed rechargeable battery and totally static circuits shall be provided to illuminate the elevator car in the event of building power failure.
- F. Fan: A one-speed 120 VAC fan will be mounted to the ceiling to facilitate in-car air circulation, meeting A17.1 code requirements. The fan shall be rubber mounted to prevent the transmission of

structural vibration and will include a baffle to diffuse audible noise. A switch shall be provided in the car-operating panel to control the fan.

- G. Handrail: Not Required
- H. Threshold: Extruded Aluminum
- I. Emergency Exit Contact: An electrical contact shall be provided on the car-top exit.
- J. Guides: The car shall have 3" diameter roller guides at top and bottom and the counterweight shall have slide type guides at the top and the bottom.
- K. Platform: The car platform shall be constructed of metal. Load weighing device shall be mounted on the belts at the top of the hoistway.
- L. The LED ceiling lights and the fan should automatically shut off when the system is not in use and be powered back up after a passenger calls the elevator and pushes a hall button.

2.05 EQUIPMENT: SIGNAL DEVICES AND FIXTURES

- A. Car Operating Panel: A standard car operating panel shall be provided which contains all push buttons, key switches, and message indicators for elevator operation. The car operating panel shall have a Satin Stainless Steel finish.
 - A car operating panel shall be furnished. It shall contain a bank of round stainless steel, mechanical LED illuminated buttons. Flush mounted to the panel and marked to correspond to the landings served. All buttons to have raised numerals and Braille markings with: 1/8" (3mm) satin stainless steel projecting button with blue or white LED illuminating halo.
- B. Car Position Indicator: A digital, LED car position indicator shall be integral to the car operating panel.
- C. Hall Fixtures: Hall fixtures shall be provided with necessary push buttons and key switches for elevator operation. Integral Hall fixtures shall feature round stainless steel, mechanical buttons marked to correspond to the landings. Hall fixtures to be located in the entrance jamb. Therefore, separate wiring and installation of electrical boxes inside the wall for the hall buttons are not required. Buttons shall be in vertically mounted fixture. Fixture shall be Satin Stainless Steel.
 - Button Options: 1/8" (3mm) satin stainless steel projecting button with blue or white LED illuminating halo.
- D. Car Lantern and Chime: A directional lantern visible from the corridor shall be provided in the car entrance. When the car stops and the doors are opening, the lantern shall indicate the direction in which the car is to travel and a chime will sound.

END OF SECTION 14210

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Car Lighting Power Supply: 120 Volts, Single-phase, 15 Amp, 60 Hz.

- R. Machine Location: Inside the hoistway at the top of the hoistway.
- S. Signal Fixtures: Manufacturer's standard with metal button targets (exc. CA).
- T. Controller Location: Machine-Roomless Controller(s) shall be located at the front opening of the top terminal landing in entrance frame.
- U. Performance:
 - 1. Car Speed: ± 3 % of contract speed under any loading condition or direction of travel.
 - 2. Car Capacity: Safely lower, stop and hold up to 120% of rated load. (code required).
- V. Operation: Duplex Collective Operation- Using a microprocessor-based controller, the operation shall be automatic by means of the car and hall buttons. In the absence of system activity, one car can be made to park at the pre-selected main landing. The other (free) car shall remain at the last landing served. Only one car shall respond to a hall call. If either car is removed from service, the other car shall immediately answer all hall calls, as well as its own car calls.
- W. Operating Features – Standard
- X. Operation Features – Optional (VERIFY WITH OWNER)
- Y. Door Control Features:

- 1. Door control to open doors automatically when car arrives at a landing in response to a normal hall or car call.
- 2. Elevator doors shall be provided with a reopening device that will stop and reopen the car door(s) and hoistway door(s) automatically should the door(s) become obstructed by an object or person.
- 3. Door protection shall consist of a two dimensional, multi-beam array projecting across the car door opening.
- 3. Door nudging operation to occur if doors are prevented from closing for an adjustable period of time.

Z. Provide equipment according to seismic zone

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's product data for each system proposed for use. Include the following:
 - 1. Signal and operating fixtures, operating panels and indicators.
 - 2. Cab design, dimensions and layout.
 - 3. Hoistway-door and frame details.
- 4. Electrical characteristics and connection requirements.
- 5. Expected heat dissipation of elevator equipment in hoistway (BTU).
- 6. Color selection chart for Cab and Entrances.
- B. Shop Drawings: Submit approval layout drawings. Include the following:
 - 1. Car, guide rails, buffers and other components in hoistway.
 - 2. Maximum rail bracket spacing.
 - 3. Maximum loads imposed on guide rails requiring load transfer to building structure.
 - 4. Clearances and travel of car.
 - 5. Clear inside hoistway and pit dimensions.
 - 6. Location and sizes of access doors, hoistway entrances and frames.
- C. Operations and Maintenance Manuals: Provide manufacturer's standard operations and maintenance manual.

1.04 QUALITY ASSURANCE

- A. Manufacturer: Elevator manufacturer shall be ISO 9001 certified.
- B. Installer: Elevators shall be installed by the manufacturer.
- C. Permits, Inspections and Certificates: The Elevator Contractor shall obtain and pay for necessary Municipal or State inspection or permits as required by the elevator inspection authority, and make such tests as are called for by the regulators or such authorities. These tests shall be made in the presence of such authorities or their authorized representatives.

1.06 WARRANTY

- A. The elevator contractor's acceptance is conditional on the understanding that their warranty covers defective material and workmanship. The warranty period shall not extend longer than one (1) year from the date of completion or acceptance thereof by beneficial use, whichever is earlier, of each elevator. The warranty excludes: ordinary wear and tear, improper use, vandalism, abuse, misuse, or neglect or any other causes beyond the control of the elevator contractor and this express warranty is in lieu of all other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose.

PART 2 - PRODUCTS

- 2.01 DESIGN AND SPECIFICATIONS
 - A. Approved Manufacturers:
 - 1. Kone
 - 2. Schindler
 - B. Provide machine-roomless Gen2™ traction passenger elevators from Otis Elevator Company. The control system and car design based on materials and systems manufactured by Otis Elevator Company. Specifically, the system shall consist of the following components:
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 - 6. Sleep mode operation for LED ceiling lights and car fan.
- C. Approved Installer: Otis Elevator Company


EQUIPMENT: CONTROLLER COMPONENTS


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- B. Drive: A Variable Voltage Variable Frequency AC drive system shall be provided. The drive shall be set up for regeneration of AC power back to the building grid.

EQUIPMENT: MACHINE AND GOVERNOR

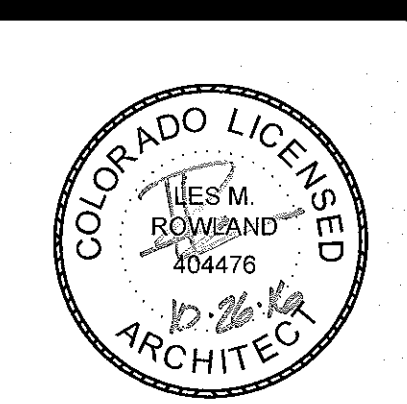
- A. Machine: AC gearless machine, with a synchronous permanent-magnet motor, dual solenoid service and emergency disc brakes, mounted at the top of the hoistway.
- B. Governor: The governor shall be a tension type car-mounted governor.
- C. Buffers, Car and Counterweight: Polyurethane type buffers shall be used.
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 - 1. Emergency stop switch in the pit
 - 2. Terminal stopping switches.
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- F. Coated-Steel Belts: Polyurethane coated belts with high-tensile-grade, zinc-plated steel cords and a flat profile on the running surface and the backside of the belt. All driving sheaves and

133


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Fax: 605.582.3894



ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

SHEET NAME:

Architectural Specifications

PROJECT NO.
W16006

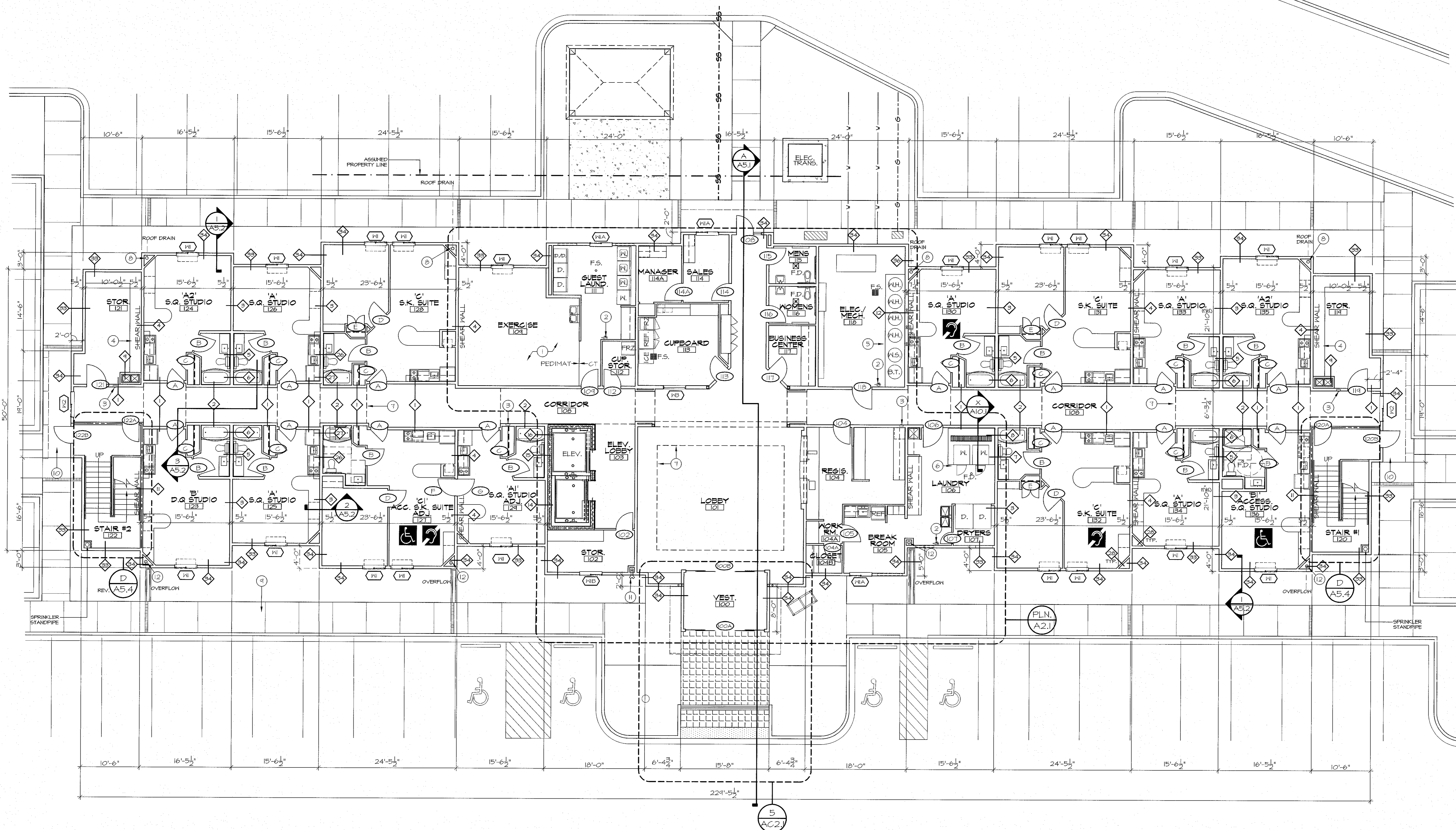
DRAWN BY:
CDS

CHECKED BY:
WLP

DATE:
10.26.2016

SHEET:

AS10



LEGEND:

- INDICATES ACCESSIBLE ROOM
- INDICATES HEARING IMPAIRED ROOM, SEE ELECTRICAL.

GENERAL NOTES:

- A. SEE STRUCTURAL FOR LOCATION AND CONSTRUCTION OF SHEAR WALLS.
- B. SEE ELECTRICAL PLANS FOR SPECIAL CONSTRUCTION AND REQUIREMENTS OF HEARING IMPAIRED ROOMS.
- C. MAINTAIN FIRE RATED CONSTRUCTION BEHIND AND AROUND ALL NON-RATED BOXES, CABINETS, AND PENETRATIONS IN RATED WALLS AND CEILINGS.
- D. ALL DIMENSIONS FROM STUD FACE TO STUD FACE UNLESS OTHERWISE NOTED.
- E. IT IS THE RESPONSIBILITY OF THE JOB SUPERINTENDENT TO COORDINATE THE LOCATION OF ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, WIRING AND OPENINGS PRIOR TO INSTALLATION.
- F. PLUMBING AND ELECTRICAL LOCATIONS SHOWN SCHEMATICALLY ONLY. SUPERINTENDENT TO COORDINATE EXACT LOCATIONS WITH F.F.I.E. SUBCONTRACTORS AND ALL TO VERIFY ALL APPLICABLE CODES.
- G. SUPERINTENDENT TO VERIFY ALL ROUGH-INS AND ROUGH-OPENINGS.
- H. SUPERINTENDENT TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH ANY WORK.
- I. VERIFY ALL DIMENSION BEFORE CONSTRUCTION.
- J. CONTRACTORS TO COORDINATE LOCATIONS OF SLAB DEPRESSIONS WITH MECHANICAL, STRUCTURAL AND OTHER SUPPLIED ITEMS.
- K. STOOP LOCATION DIMENSIONS ARE FROM STUD FACE TO STOOP FOUNDATION.
- L. CONTRACTOR TO PROVIDE PROPER VENTILATION DURING INSTALLATION OF CONCRETE.
- M. FRAMER TO PROVIDE OPENINGS FOR RECESSED ELECTRICAL PANELS IN WALLS. OPENINGS TO BE FIRE RATED, SEE DETAILS 1 & 2/A6.1.
- N. VERIFY ALL FLOOR DRAIN LOCATIONS WITH UNDERFLOOR PLUMBING PLAN, SEE MECHANICAL.
- O. WALL TYPES SEE SHEET A.T.I.

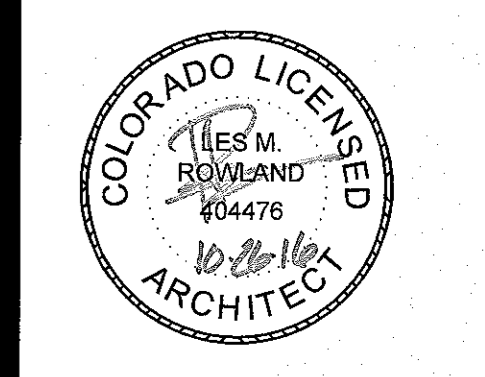
KEYED NOTES:

1. PEDIMAT, TOP FLUSH WITH CERAMIC TILE. COORDINATE SIZE WITH OWNER.
2. SURFACE MOUNT FIRE EXTINGUISHER, MOUNT 42" A.F.F.
3. FIRE EXTINGUISHER CABINET MOUNTED 60" FROM FLOOR TO TOP OF CABINET. MAINTAIN FIRE RATED CONSTRUCTION BEHIND AND AROUND CABINET, SEE DETAILS 1 & 2/A6.1.
4. STORAGE SHELVING, SEE DETAIL 8/A6.1.
5. 6" HOUSEKEEPING PAD BY CONCRETE CONTRACTOR. VERIFY SIZE WITH MECHANICAL.
6. ISOLATION PAD BY CONCRETE CONTRACTOR.
7. DASHED LINE INDICATES SOFFIT ABOVE, SEE SHEET A8.1.
8. ROOF DRAIN LEADER CONNECTS TO STORM DRAIN.
9. CONCRETE SIDEWALK.
10. CONCRETE STOOP NOT TO EXCEED 2% SLOPE IN ANY DIRECTION. FIN ALL ADJACENT SIDEWALKS TO STOOP WITH #5 REBAR x 4' LONG AT 12" O.C.
11. PIPE DEPARTMENT SIAMENSE CONNECTION.
12. OVERFLOW ROOF DRAIN & NOZZEL, SEE 11/A6.1.

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PRO GROUP INC.
COMMERCIAL DEVELOPMENT | INTERIOR

208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

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ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

FIRST FLOOR ROOM TYPES	
A	5 SINGLE QUEEN STUDIO
A1	1 SINGLE QUEEN STUDIO ADJOINING
A2	2 SINGLE QUEEN STUDIO
B	1 DOUBLE QUEEN STUDIO
B1	1 ACCESSIBLE SINGLE QUEEN STUDIO
C	3 SINGLE KING SUITE
C1	1 ACCESSIBLE SINGLE KING SUITE ADJ.
14	TOTAL FIRST FLOOR ROOMS

12,433 SQ.FT.
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

SHEET NAME: **First Floor Plan**

PROJECT NO. **W16006**
DRAWN BY: **CDS**
CHECKED BY: **WLP**
DATE: **10.26.2016**
SHEET: **A1.1**

LEGEND:

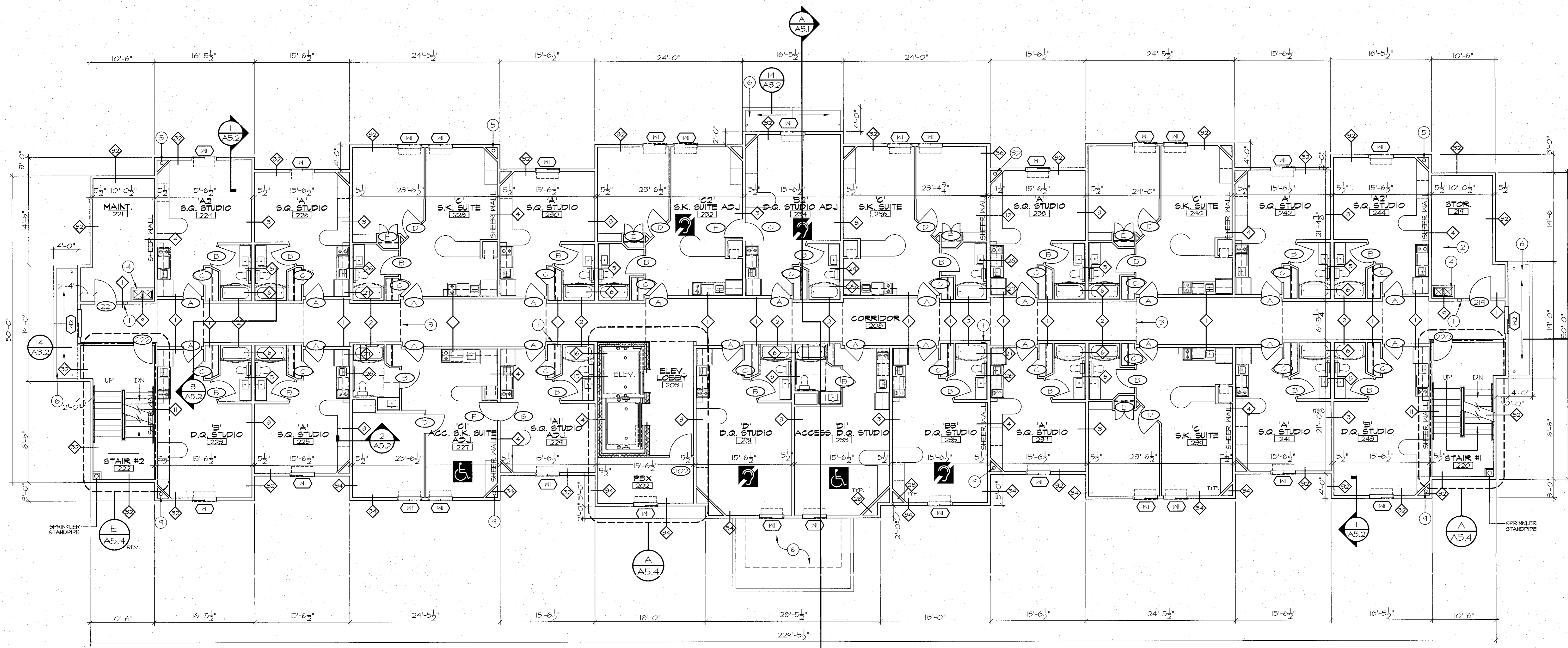
- INDICATES ACCESSIBLE ROOM
- INDICATES HEARING IMPAIRED ROOM. SEE ELECTRICAL

GENERAL NOTES:

- A. SEE STRUCTURAL FOR LOCATION AND CONSTRUCTION OF SHEAR WALLS.
- B. SEE ELECTRICAL PLANS FOR SPECIAL CONSTRUCTION AND REQUIREMENTS OF HEARING IMPAIRED ROOMS.
- C. MAINTAIN FIRE RATED CONSTRUCTION BEHIND AND AROUND ALL NON-RATED BOXES, CABINETS, AND PENETRATIONS IN RATED WALLS AND CEILING.
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- G. SUPERINTENDENT TO VERIFY ALL ROUGH-INS AND ROUGH-OPENINGS.
- H. SUPERINTENDENT TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH ANY WORK.
- I. VERIFY ALL DIMENSION BEFORE CONSTRUCTION.
- J. CONTRACTORS TO COORDINATE LOCATIONS OF SLAB DEPRESSIONS WITH MECHANICAL, STRUCTURAL AND OWNER SUPPLIED ITEMS.
- K. FRAMER TO PROVIDE OPENINGS FOR RECESSED ELECTRICAL PANELS IN WALLS. OPENINGS TO BE FIRE RATED, SEE DETAILS 1 & 2/A6.1.
- L. FLOOR ASSEMBLY TYPES SEE SHEET A1.2.
- M. WALL TYPE SEE SHEET A1.1.

KEYED NOTES:

1. FIRE EXTINGUISHER CABINET MOUNTED 60" FROM FLOOR TO TOP OF CABINET. MAINTAIN FIRE RATED CONSTRUCTION BEHIND AND AROUND CABINET. SEE DETAILS 1 & 2/A6.1.
2. STORAGE SHELVING, SEE DETAIL 0/A6.1.
3. DASHED LINE INDICATES SOFFIT ABOVE. SEE SHEET A6.1.
4. 2-HOUR RATED MECHANICAL DUCT SHAFT, SEE WALL TYPE 4 ON A1.1.
5. ROOF DRAIN LEADER DOWNSPOUT.
6. ROOF BELOW.
7. WORK BENCH.
8. NOT USED.
9. OVERFLOW ROOF DRAIN & NOZZEL.



12200 SQ.FT.
SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"

SECOND FLOOR ROOM TYPES	
A	7 SINGLE QUEEN STUDIO
AI	1 SINGLE QUEEN STUDIO ADJOINING
A2	2 SINGLE QUEEN STUDIO
B	2 DOUBLE QUEEN STUDIO
B2	1 DOUBLE QUEEN STUDIO ADJOINING
B3	1 DOUBLE QUEEN STUDIO
C	4 SINGLE KING SUITE
C1	1 ACCESSIBLE SINGLE KING SUITE ADJ.
C2	1 SINGLE KING SUITE ADJOINING
D	1 DOUBLE QUEEN STUDIO
DI	1 ACCESSIBLE DOUBLE QUEEN STUDIO
	22 TOTAL SECOND FLOOR ROOMS

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 Pueblo, CO

PROJ. MGR.
PRO GROUP INC.

208 E. Holly Boulevard
 Brandon, South Dakota 57005
 Phone: 605.336.8197
 Fax: 605.582.3894

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ARCHITECT:
LES ROWLAND
 212 E. Holly Boulevard
 Brandon, South Dakota 57005

SHEET NAME:
Second Floor Plan

PROJECT NO.
W16006

DRAWN BY:
CDS

CHECKED BY:
WLP

DATE:
10.26.2016

SHEET:
A1.2

LEGEND:

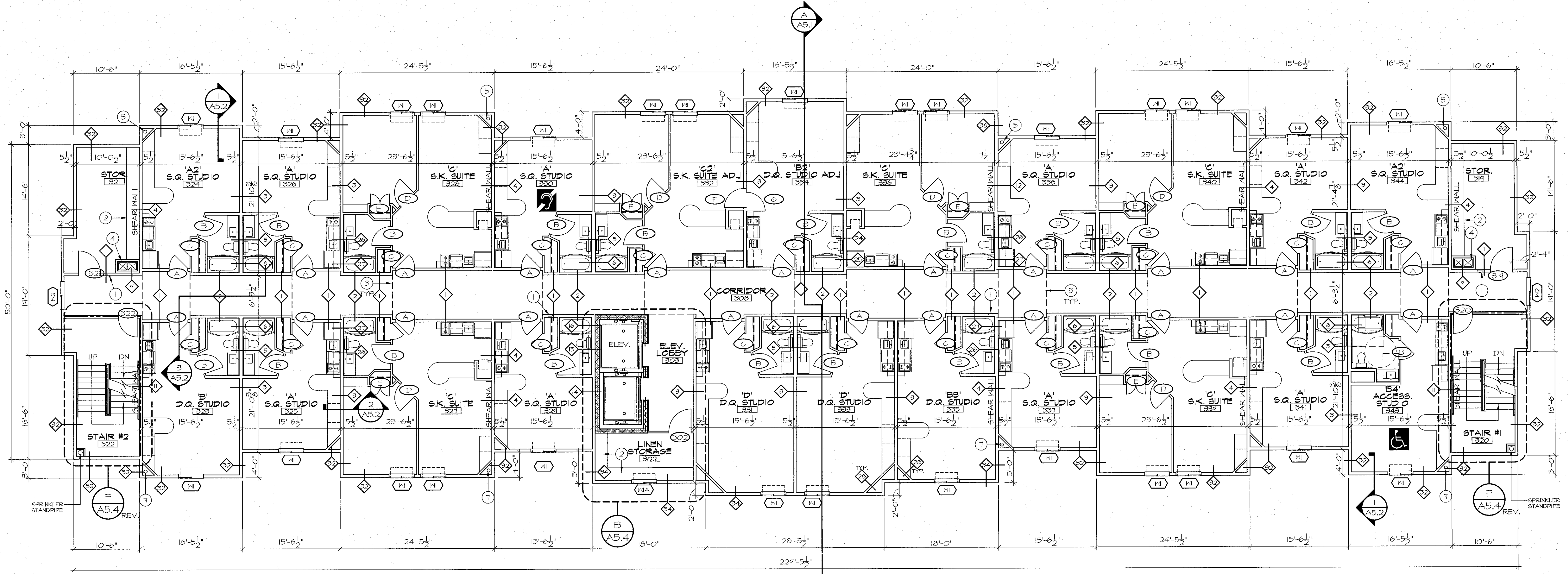
- INDICATES ACCESSIBLE ROOM
- INDICATES HEARING IMPAIRED ROOM, SEE ELECTRICAL

GENERAL NOTES:

- A. SEE STRUCTURAL FOR LOCATION AND CONSTRUCTION OF SHEAR WALLS.
- B. SEE ELECTRICAL PLANS FOR SPECIAL CONSTRUCTION AND REQUIREMENTS OF HEARING IMPAIRED ROOMS.
- C. MAINTAIN FIRE RATED CONSTRUCTION BEHIND AND AROUND ALL NON-RATED BOXES, CABINETS, AND PENETRATIONS IN RATED WALLS AND CEILING.
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- K. FRAMER TO PROVIDE OPENINGS FOR RECESSED ELECTRICAL PANELS IN WALLS. OPENINGS TO BE FIRE RATED, SEE DETAILS I & 2/A6.1.
- L. FLOOR ASSEMBLY TYPES SEE SHEET A1.2.
- M. WALL TYPES SEE SHEET A1.1.

KEYED NOTES:

1. FIRE EXTINGUISHER CABINET MOUNTED 60" FROM FLOOR TO TOP OF CABINET. MAINTAIN FIRE RATED CONSTRUCTION BEHIND AND AROUND CABINET. SEE DETAILS I & 2/A6.1.
2. STORAGE SHELVING, SEE DETAIL 8/A6.1.
3. DASHED LINE INDICATES SOFFIT ABOVE, SEE SHEET A8.1.
4. 2-HOUR RATED MECHANICAL DUCT SHAFT, SEE WALL TYPE 9 ON SHEET A1.1.
5. ROOF DRAIN LEADER DOWNSPOUT.
6. NOT USED.
7. OVERFLOW ROOF DRAIN LEADER DOWNSPOUT.



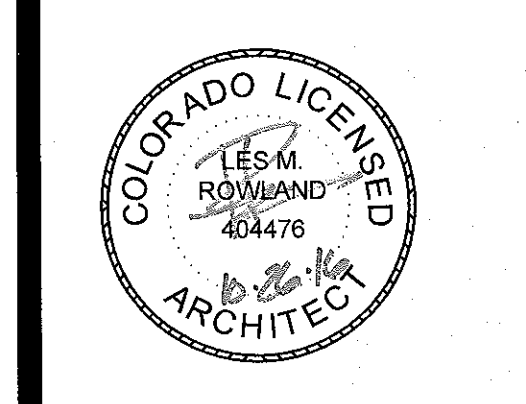
12,800 SQ.FT.
THIRD FLOOR PLAN
 SCALE: 1/8" = 1'-0"

THIRD FLOOR ROOM TYPES	
A	8 SINGLE QUEEN STUDIO
A2	2 SINGLE QUEEN STUDIO
B	1 DOUBLE QUEEN STUDIO
B2	1 DOUBLE QUEEN STUDIO ADJOINING
B3	1 DOUBLE QUEEN STUDIO
B4	1 ACCESSIBLE SINGLE QUEEN STUDIO
C	5 SINGLE KING SUITE
C2	1 SINGLE KING SUITE ADJOINING
D	2 DOUBLE QUEEN STUDIO
22	TOTAL THIRD FLOOR ROOMS

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 Pueblo, CO

PROJ. MGR.
PRO GROUP INC.
 208 E. Holly Boulevard
 Brandon, South Dakota 57005
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ARCHITECT:
LES ROWLAND
 212 E. Holly Boulevard
 Brandon, South Dakota 57005

SHEET NAME:
Third Floor Plan

PROJECT NO.
W16006

DRAWN BY:
CDS

CHECKED BY:
WLP

DATE:
10.27.2016

SHEET:
A1.3

LEGEND:

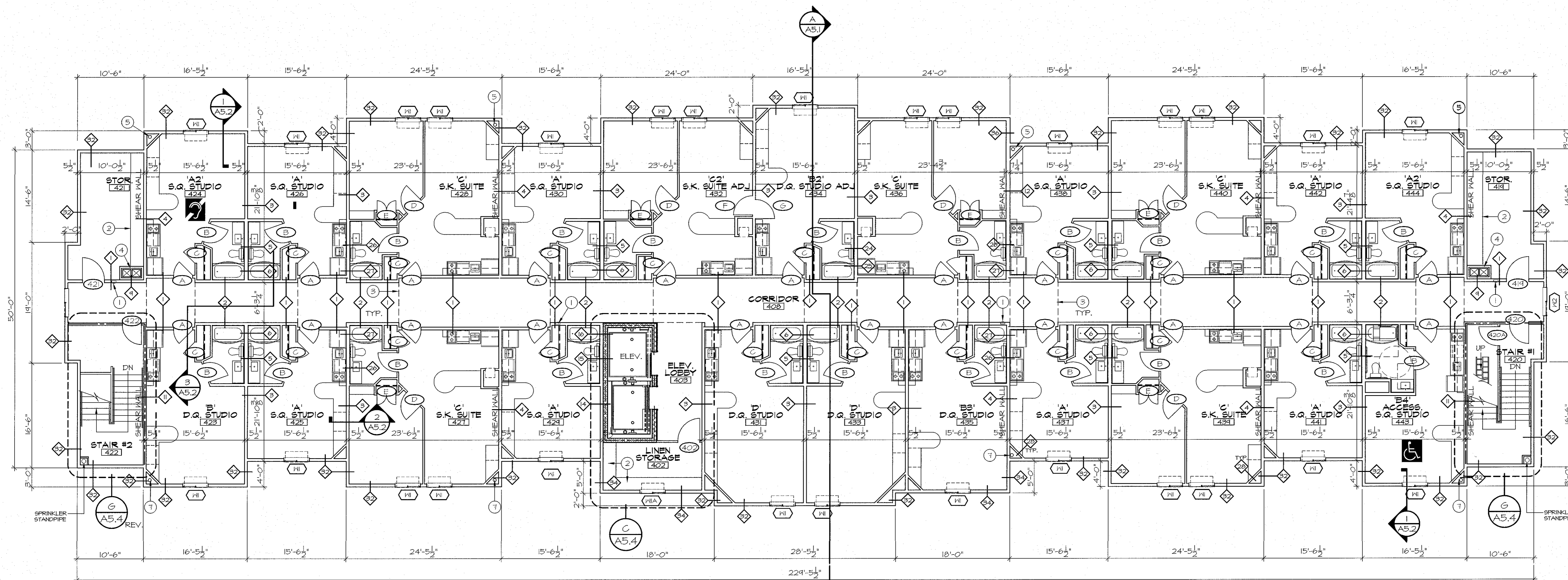
- INDICATES ACCESSIBLE ROOM
- INDICATES HEARING IMPAIRED ROOM, SEE ELECTRICAL

GENERAL NOTES:

- A. SEE STRUCTURAL FOR LOCATION AND CONSTRUCTION OF SHEAR WALLS.
- B. SEE ELECTRICAL PLANS FOR SPECIAL CONSTRUCTION AND REQUIREMENTS OF HEARING IMPAIRED ROOMS.
- C. MAINTAIN FIRE RATED CONSTRUCTION BEHIND AND AROUND ALL NON-RATED BOXES, CABINETS, AND PENETRATIONS IN RATED WALLS AND CEILINGS.
- D. ALL DIMENSIONS FROM STUD FACE TO STUD FACE UNLESS OTHERWISE NOTED.
- E. IT IS THE RESPONSIBILITY OF THE JOB SUPERINTENDENT TO COORDINATE THE LOCATION OF ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, WIRING AND OPENINGS PRIOR TO INSTALLATION.
- F. PLUMBING AND ELECTRICAL LOCATIONS SHOWN SCHEMATICALLY ONLY. SUPERINTENDENT TO COORDINATE EXACT LOCATIONS WITH FF&E, SUBCONTRACTORS AND ALL TO VERIFY ALL APPLICABLE CODES.
- G. SUPERINTENDENT TO VERIFY ALL ROUGH-INS AND ROUGH-OPENINGS.
- H. SUPERINTENDENT TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH ANY WORK.
- I. VERIFY ALL DIMENSION BEFORE CONSTRUCTION.
- J. CONTRACTORS TO COORDINATE LOCATIONS OF SLAB DEPRESSIONS WITH MECHANICAL, STRUCTURAL AND OWNER SUPPLIED ITEMS.
- K. FRAMER TO PROVIDE OPENINGS FOR RECESSED ELECTRICAL PANELS IN WALLS. OPENINGS TO BE FIRE RATED, SEE DETAILS 1 & 2/A6.1.
- L. FLOOR ASSEMBLY TYPES SEE SHEET A1.2.
- M. WALL TYPES SEE SHEET A1.1.

KEYED NOTES:

1. FIRE EXTINGUISHER CABINET MOUNTED 60" FROM FLOOR TO TOP OF CABINET. MAINTAIN FIRE RATED CONSTRUCTION BEHIND AND AROUND CABINET. SEE DETAILS 1 & 2/A6.1.
2. STORAGE SHELVING, SEE DETAIL 8/A6.1.
3. DASHED LINE INDICATES SOFFIT ABOVE, SEE SHEET A6.1.
4. 2-HOUR RATED MECHANICAL DUCT SHAFT, SEE WALL TYPE 4 ON A1.1.
5. ROOF DRAIN LEADER DOWNSPOUT.
6. NOT USED.
7. OVERFLOW ROOF DRAIN LEADER DOWNSPOUT.



12,808 SQ.FT.
FOURTH FLOOR PLAN
 SCALE: 1/8" = 1'-0"

FOURTH FLOOR ROOM TYPES	
A	8 SINGLE QUEEN STUDIO
A2	2 SINGLE QUEEN STUDIO
B	1 DOUBLE QUEEN STUDIO
B2	1 DOUBLE QUEEN STUDIO ADJOINING
B3	1 DOUBLE QUEEN STUDIO
B4	1 ACCESSIBLE SINGLE QUEEN STUDIO
C	5 SINGLE KING SUITE
C2	1 SINGLE KING SUITE ADJOINING
D	2 DOUBLE QUEEN STUDIO
22	TOTAL FOURTH FLOOR ROOMS

CANDLEWOOD SUITES
 Pueblo, CO

PROJ. MGR.
PRO GROUP INC.
 1000 WEST 10TH AVENUE, SUITE 100
 DENVER, CO 80202

208 E. Holly Boulevard
 Brandon, South Dakota 57005
 Phone: 605.336.8197
 Fax: 605.582.3894

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LES M. ROWLAND
 ARCHITECT

ARCHITECT:
LES ROWLAND
 212 E. Holly Boulevard
 Brandon, South Dakota 57005

SHEET NAME:
Fourth Floor Plan

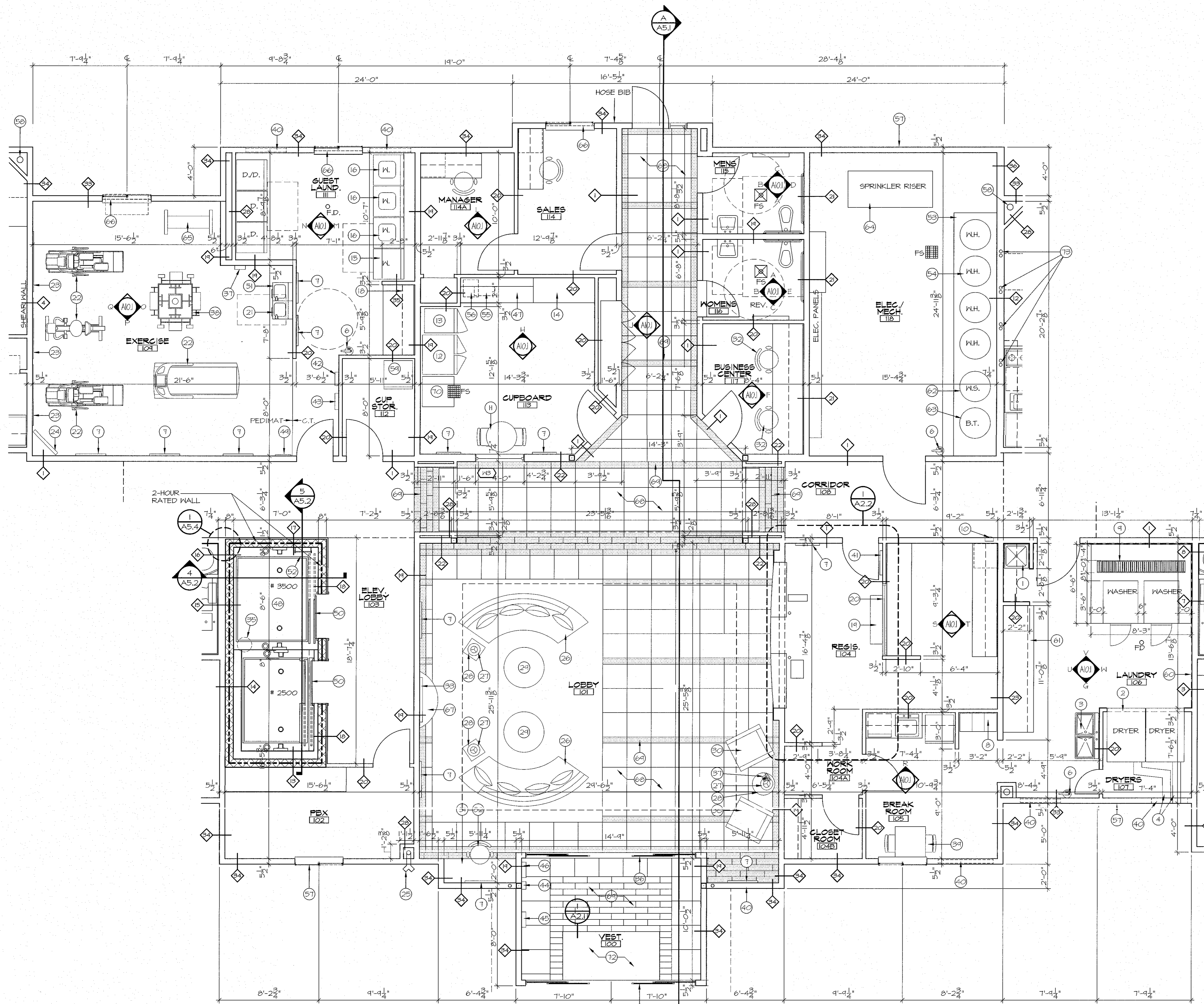
PROJECT NO.
W16006

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CDS

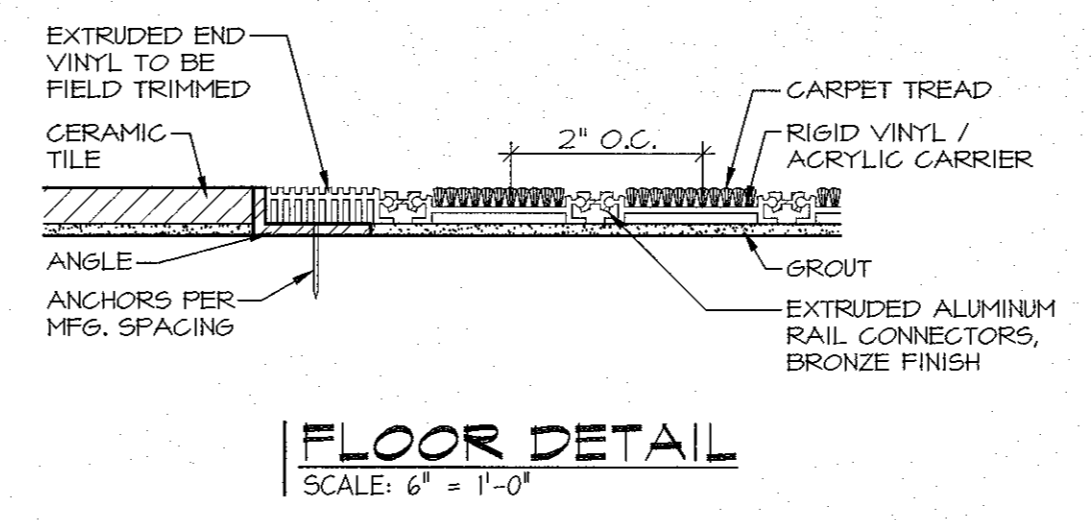
CHECKED BY:
WLP

DATE:
10.26.2016

SHEET:
A1.4



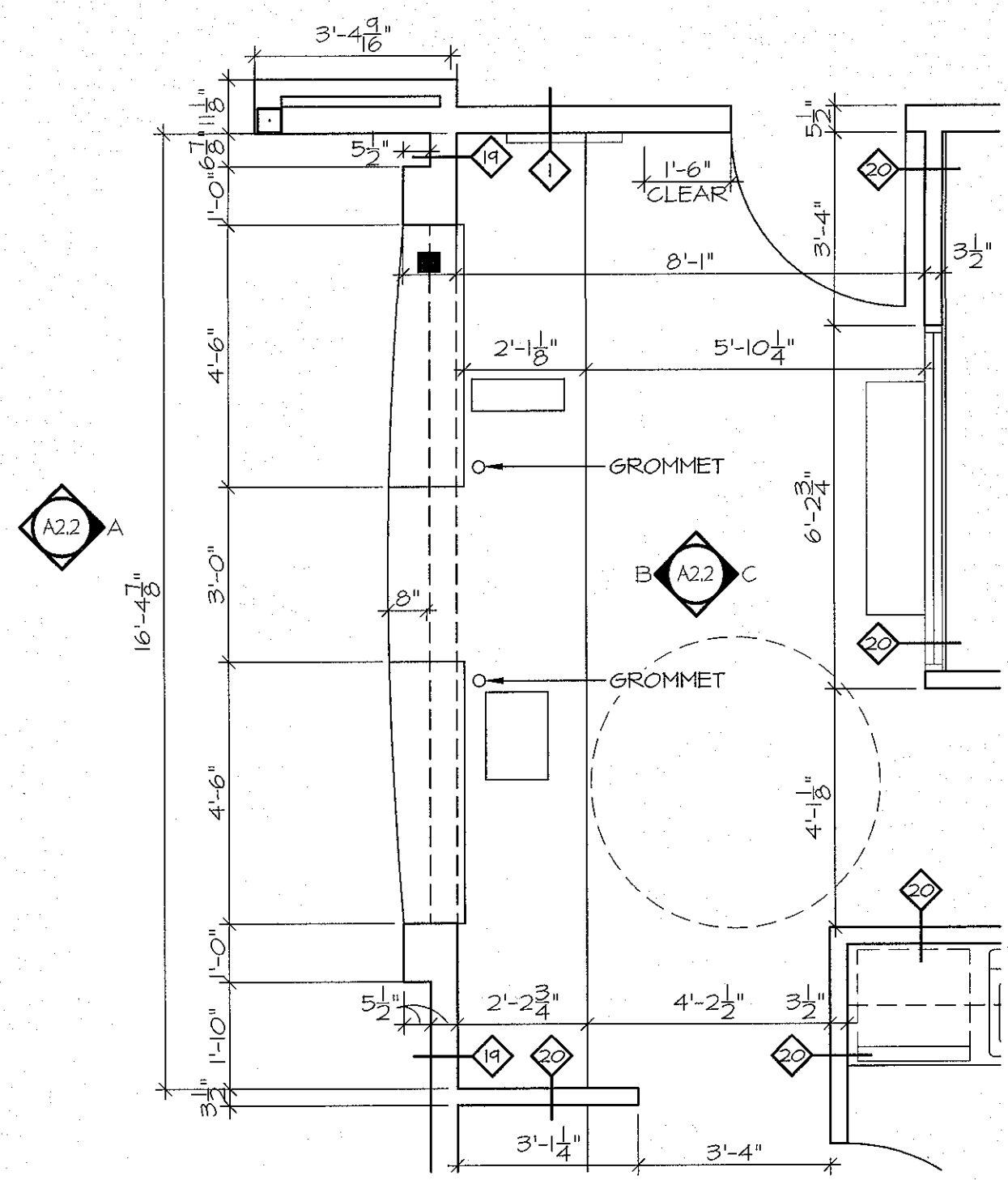
ENLARGED CORE PLAN
SCALE: 1/4" = 1'-0"



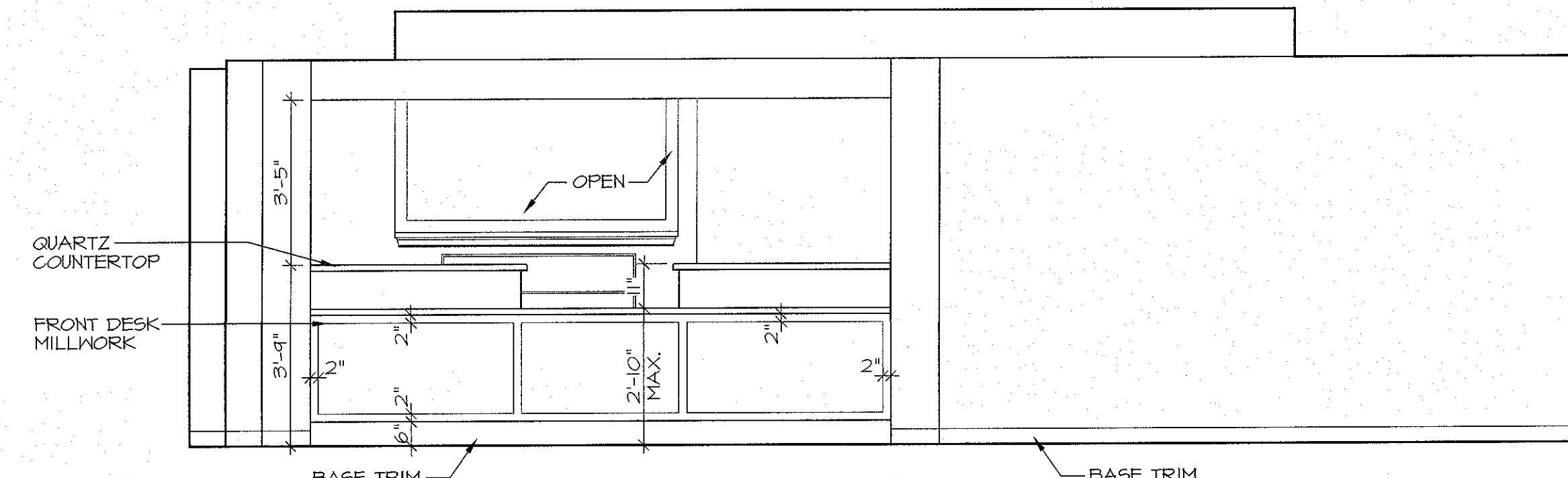
FLOOR DETAIL
SCALE: 6\"/>

- GENERAL NOTES:**
- A. SEE STRUCTURAL FOR LOCATION AND CONSTRUCTION OF SHEAR WALLS.
 - B. MAINTAIN FIRE RATED CONSTRUCTION BEHIND AND AROUND ALL NON-RATED BOXES, CABINETS, AND PENETRATIONS IN RATED WALLS AND CEILING.
 - C. ALL DIMENSIONS FROM STUD FACE TO STUD FACE UNLESS OTHERWISE NOTED. VERIFY ALL DIMENSIONS BEFORE CONSTRUCTION.
 - D. IT IS THE RESPONSIBILITY OF THE JOB SUPERINTENDENT TO COORDINATE THE LOCATION OF ALL ARCHITECTURAL, MECHANICAL, AND ELECTRICAL EQUIPMENT, PIPING, WIRING AND OPENINGS PRIOR TO INSTALLATION.
 - E. PLUMBING AND ELECTRICAL LOCATIONS SHOWN SCHEMATICALLY ONLY. SUPERINTENDENT TO COORDINATE EXACT LOCATIONS WITH F.F.A.E., SUBCONTRACTORS AND ALL TO VERIFY ALL APPLICABLE CODES.
 - F. SUPERINTENDENT TO VERIFY ALL ROUGH-INS AND ROUGH-OPENINGS.
 - G. SUPERINTENDENT TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH ANY WORK.
 - H. CONTRACTORS TO COORDINATE LOCATIONS OF SLAB DEPRESSIONS WITH MECHANICAL, STRUCTURAL AND OWNER SUPPLIED MATERIALS.
 - I. G.C. TO VERIFY ALL FLOOR OUTLET LOCATIONS WITH ELECTRICAL AND OWNER PRIOR TO INSTALLATION.
 - J. SEE TYPICAL MOUNTING HEIGHTS/ON SHEET A2.6 FOR WALL HUNG BLOCKING REQUIREMENTS.

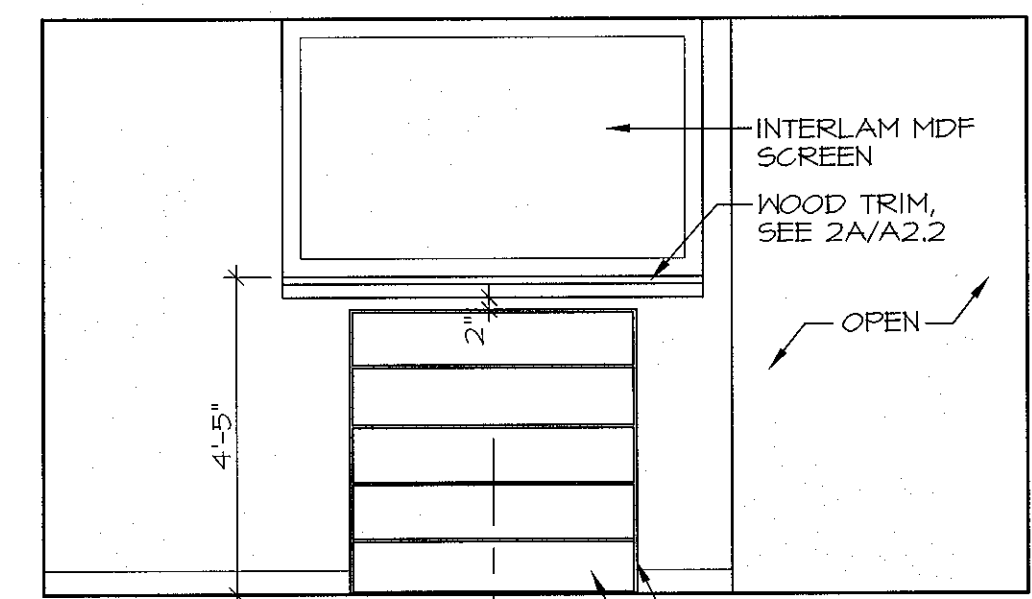
- KEYED NOTES:**
1. MOP SINK.
 2. SOFFIT ABOVE DRYER AREA, EXTEND DOWN TO DRYER HEIGHT.
 3. DOUBLE SOAK SINK, SEE MECHANICAL PLANS.
 4. DRYER EXHAUST VENTS, SEE MECHANICAL PLANS.
 5. NOT USED.
 6. SURFACE MOUNT FIRE EXTINGUISHER.
 7. ARTWORK.
 8. EMPLOYEE LOCKERS.
 9. TRENCH DRAIN, SEE MECHANICAL.
 10. FIRE EXTINGUISHER CABINET MOUNTED 60\"/>
 - 11. 30\"/>
 - 12. (2) DOOR COOLER WITH REMOTE CONDENSER.
 - 13. FREEZER WITH REMOTE CONDENSER.
 - 14. 24\"/>
 - 15. FRONT LOAD ACCESSIBLE WASHING MACHINE, INSTALL TOP OF WASHER BOX AT 40\"/>
 - 16. WASHING MACHINE, INSTALL TOP OF WASHER BOX AT 40\"/>
 - 17. CHAIR.
 - 18. WIRE SHELVING @ 5'-0\"/>
 - 19. CENTER SUPPORT BRACKETS). PROVIDE BLOCKING FOR WIRE SHELF.
 - 20. INTERLAM MFG. SCREEN.
 - 21. ACCESSIBLE ELECTRIC WATER COOLER, SPOUT OUTLET MOUNTED 36\"/>
 - 22. EXERCISE EQUIPMENT BY OWNER, PROVIDE FLOOR OUTLETS, SEE ELEC.
 - 23. FRAMED MIRROR.
 - 24. CEILING HUNG T.V. AND SHELF FURNISHED BY OWNER AND INSTALLED BY G.C. TO PROVIDE BLOCKING IN CEILING.
 - 25. FIRE DEPARTMENT SIAMESE CONNECTION, SEE MECHANICAL.
 - 26. SOFA.
 - 27. TABLE LAMP.
 - 28. END TABLE.
 - 29. COFFEE TABLE.
 - 30. LOUNGE CHAIR.
 - 31. DESK.
 - 32. ERGONOMIC DESK CHAIR.
 - 33. WALL MOUNTED 42\"/>
 - 34. FLOOR LAMP.
 - 35. SNIP FIT BUCKET PROVIDED BY PLUMBING CONTRACTOR, PROVIDE STEEL LID FLUSH WITH SLAB.
 - 36. SLIDING DOORS W/ BREAKAWAY HARDWARE FOR EMERGENCY EXITING.
 - 37. HOUSE PHONE.
 - 38. FREE HEIGHT STORAGE RACK.
 - 39. 30\"/>
 - 40. LOUVER, SEE MECHANICAL.
 - 41. FIRE ALARM CONTROL PANEL, SEE ELECTRICAL PLANS.
 - 42. WIRE TONEL SHELF BY OWNER.
 - 43. MAGAZINE RACK BY OWNER.
 - 44. HOUSE PHONE, SEE ELECTRICAL PLANS.
 - 45. KNOX BOX.
 - 46. FIRE ALARM ANNUNCIATOR PANEL, SEE ELECTRICAL PLANS.
 - 47. 48\"/>
 - 48. COFFEE MACHINE & MICROWAVE BY J. SUGGS INDUSTRIES, INC.
 - 49. ELEVATOR DIMENSIONS ARE BASED ON SCHINDLER 3500 LB. & 2500 LB. CAPACITY TRACTION, VERIFY DIMENSIONS WITH SELECTED MANUFACTURER, IF DIFFERENT ELEVATOR MODEL OR MANUFACTURER SELECTED, NOTIFY THE ARCHITECT OF RECORD.
 - 50. SIGN STATINGS, USE AT YOUR OWN RISK.
 - 51. ELEVATOR SHIELD TO FURNISH 10 MINUTE RATED ELEVATOR DOORS AT ALL FLOOR LEVELS.
 - 52. ELECTRIC WATER COOLER, SPOUT OUTLET MOUNTED 36\"/>
 - 53. METAL LADDER PER ELEVATOR MANUFACTURERS SPECIFICATIONS, SEE DETAIL 22/AS.3.
 - 54. 6\"/>
 - 55. MICROHAVE BELOW COUNTER.
 - 56. COFFEE MAKER ON COUNTERTOP.
 - 57. SPANDREL GLASS WINDOW.
 - 58. ROOF DRAIN PIPE, SEE MECHANICAL.
 - 59. UPRIGHT FREEZER BY OWNER.
 - 60. DASHED LINE INDICATES FULL HEIGHT GLASS BOARD.
 - 61. FOLDING TABLE.
 - 62. WATER SOFTENER, SEE MECHANICAL.
 - 63. BRINE TANK, SEE MECHANICAL.
 - 64. FIRE SPRINKLER RISER, SEE MECHANICAL.
 - 65. BENCH, VERIFY LOCATION WITH FRANCHISE.
 - 66. WOOD BLINDS.
 - 67. CONSOLE TABLE.
 - 68. 24\"/>
 - 69. 6\"/>
 - 70. ICE MACHINE.
 - 71. NOT USED.
 - 72. RECESSED FLOOR MAT.
 - 73. WATER HEATER VENTS IN WALL.



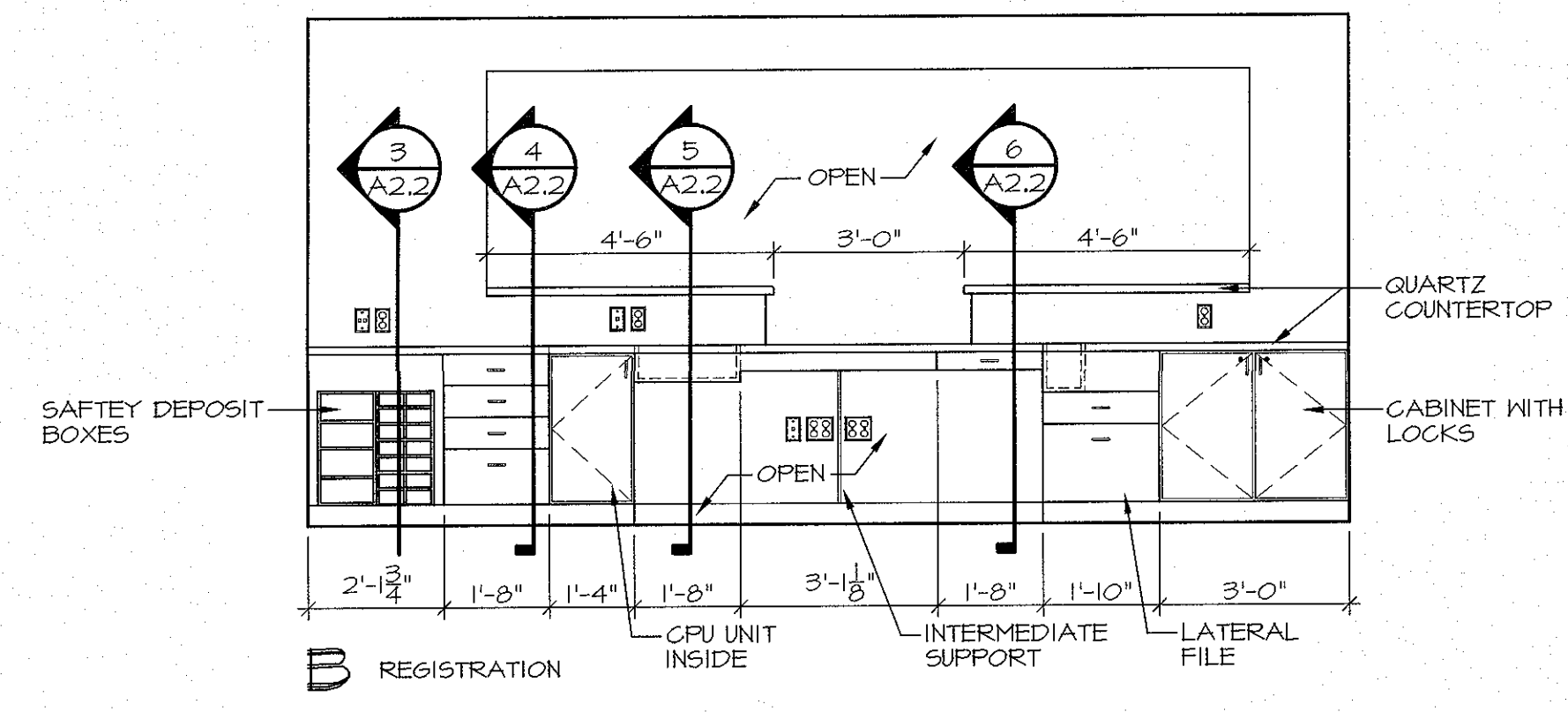
ENLARGED REGISTRATION PLAN
SCALE: 3/8" = 1'-0"



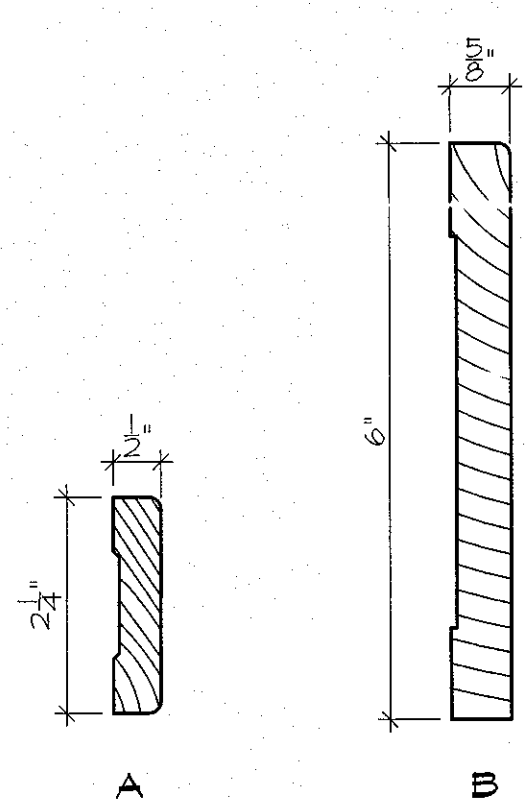
A REGISTRATION



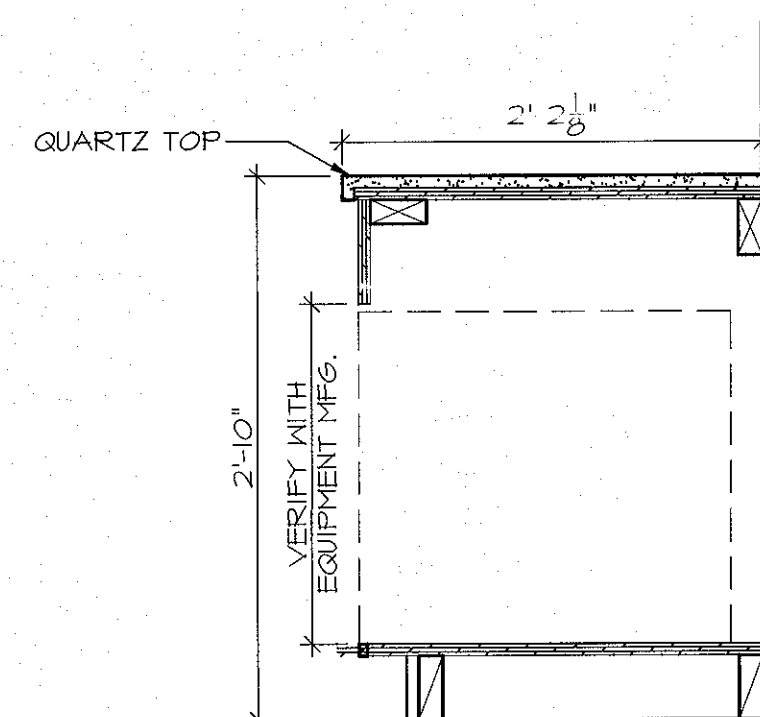
C REGISTRATION



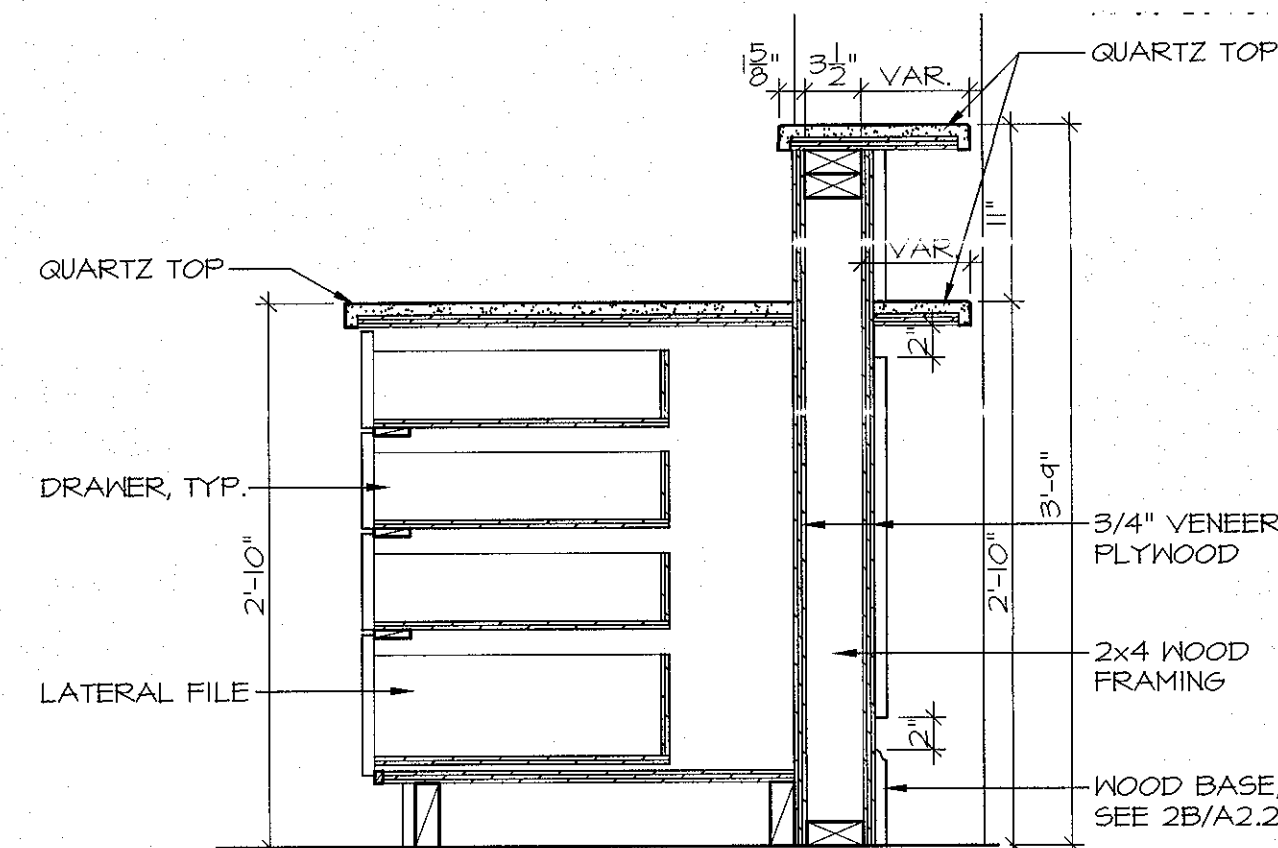
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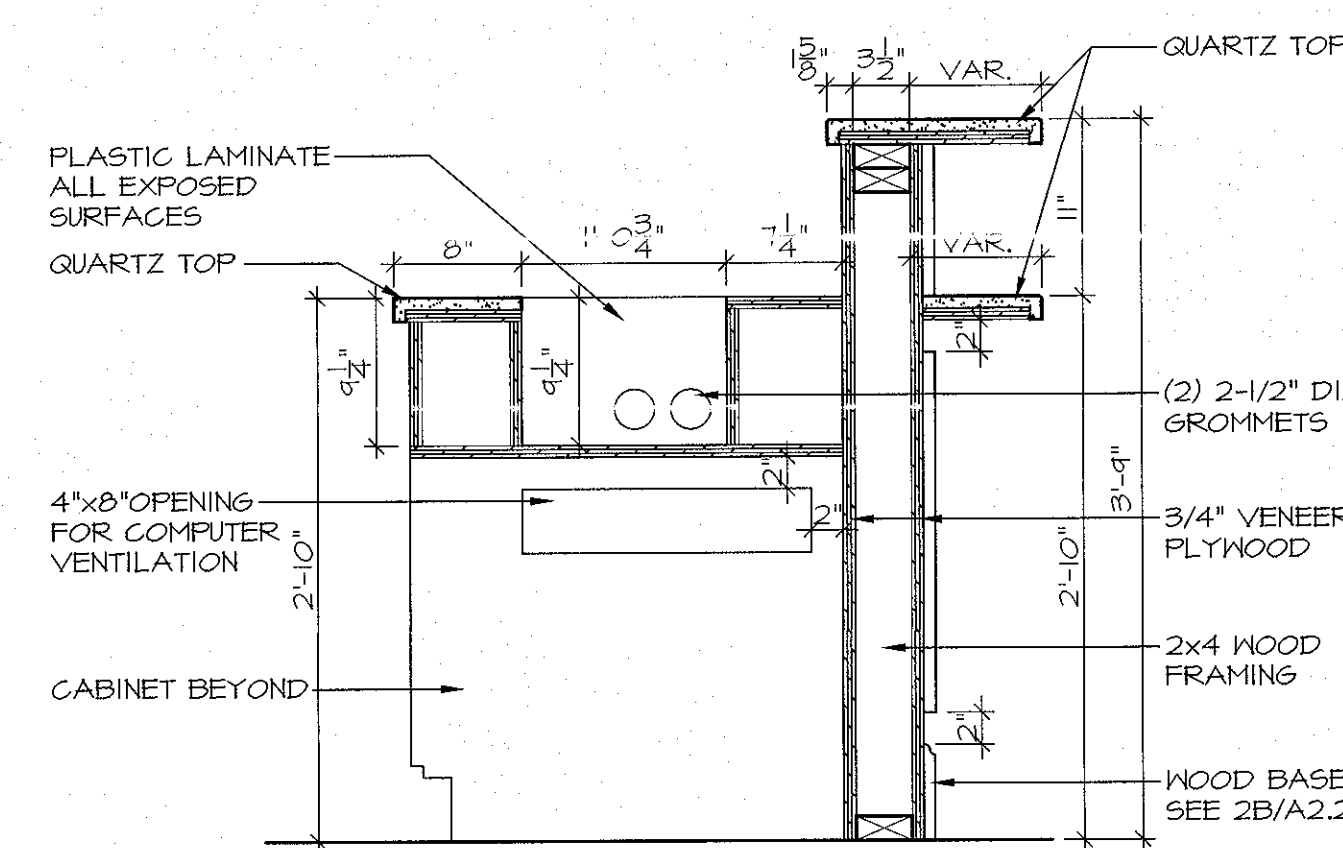
2 TRIM PROFILES
SCALE: 6" = 1'-0"



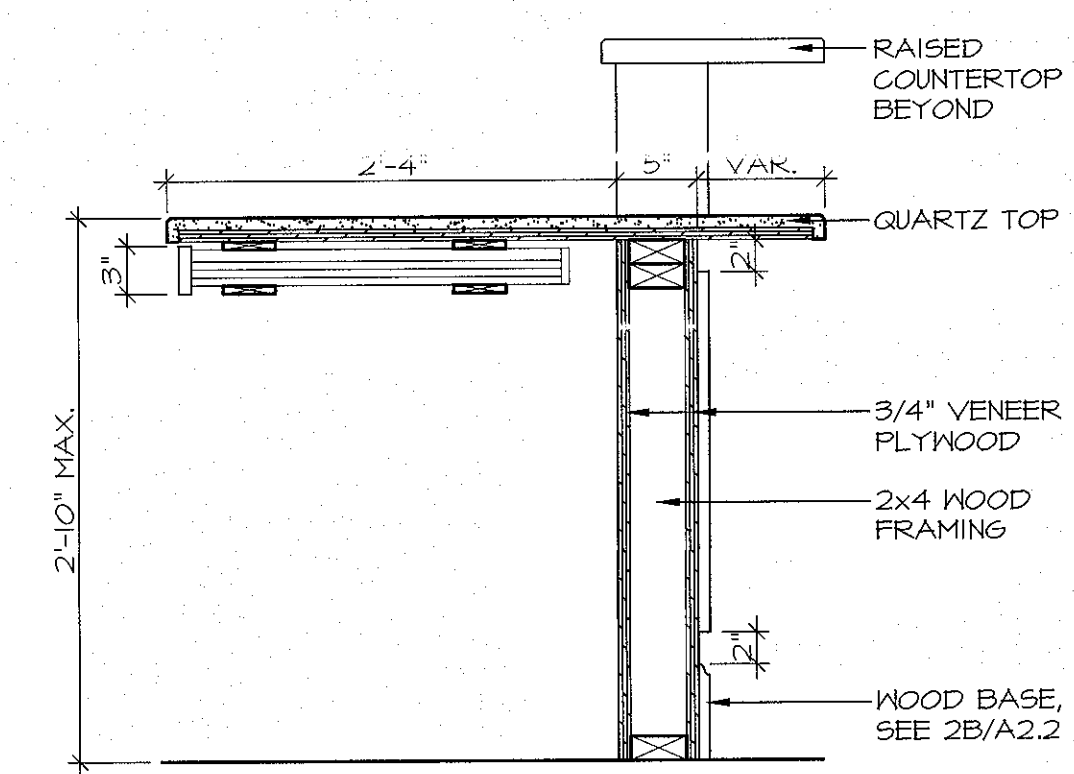
3 CABINET SECTION
SCALE: 1" = 1'-0"



4 CABINET SECTION
SCALE: 1" = 1'-0"



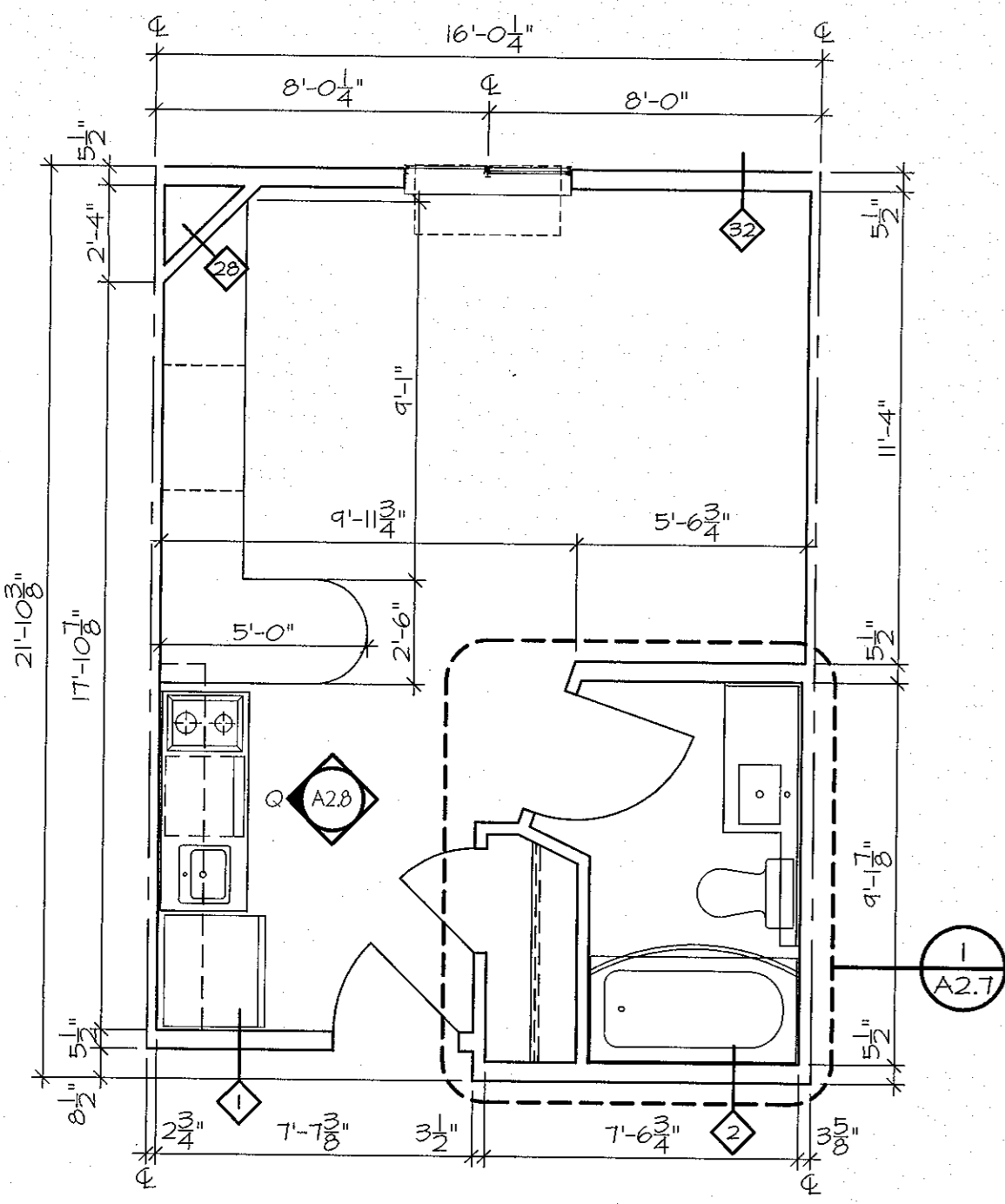
5 CABINET SECTION
SCALE: 1" = 1'-0"



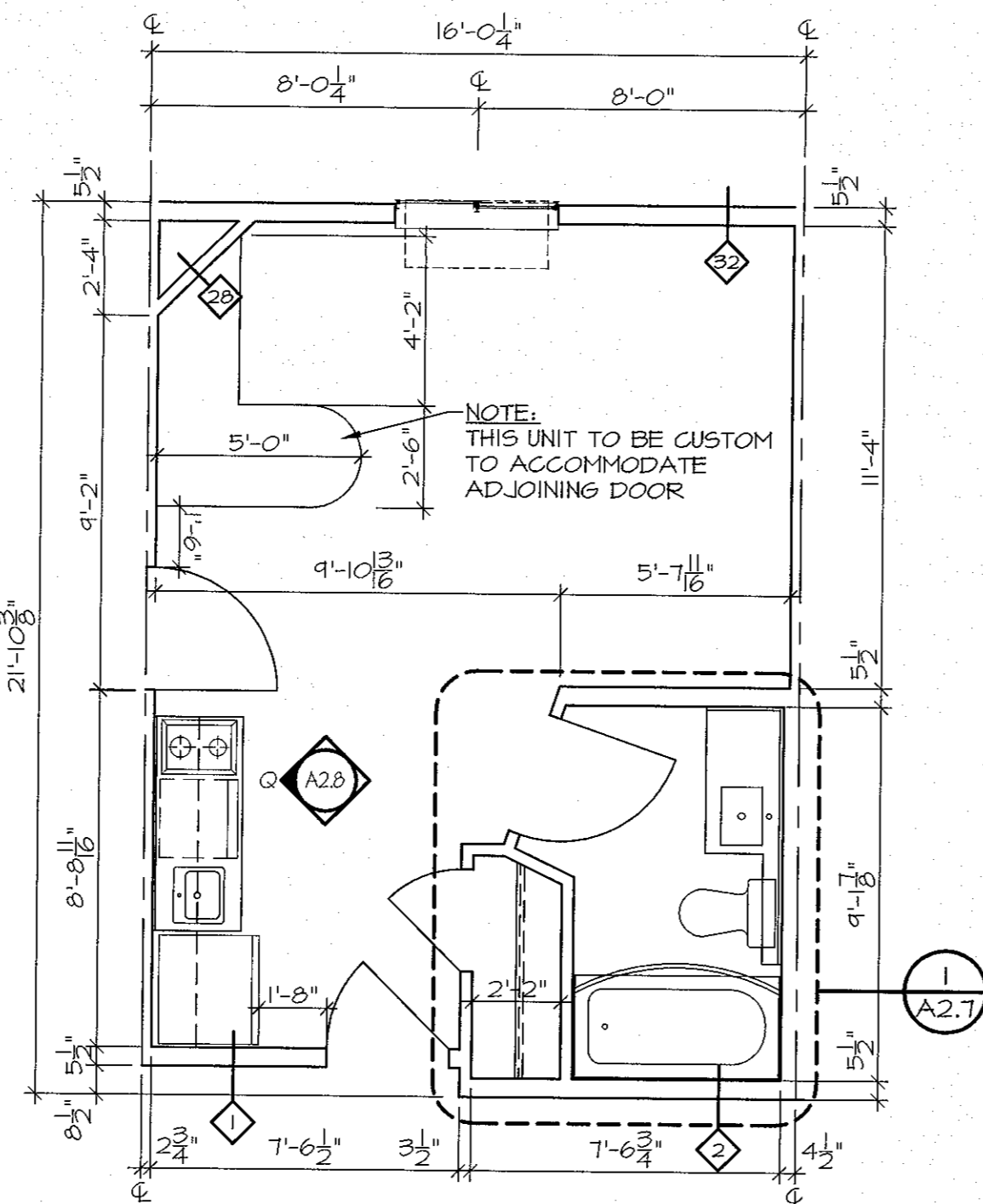
6 CABINET SECTION
SCALE: 1" = 1'-0"

GENERAL NOTES:

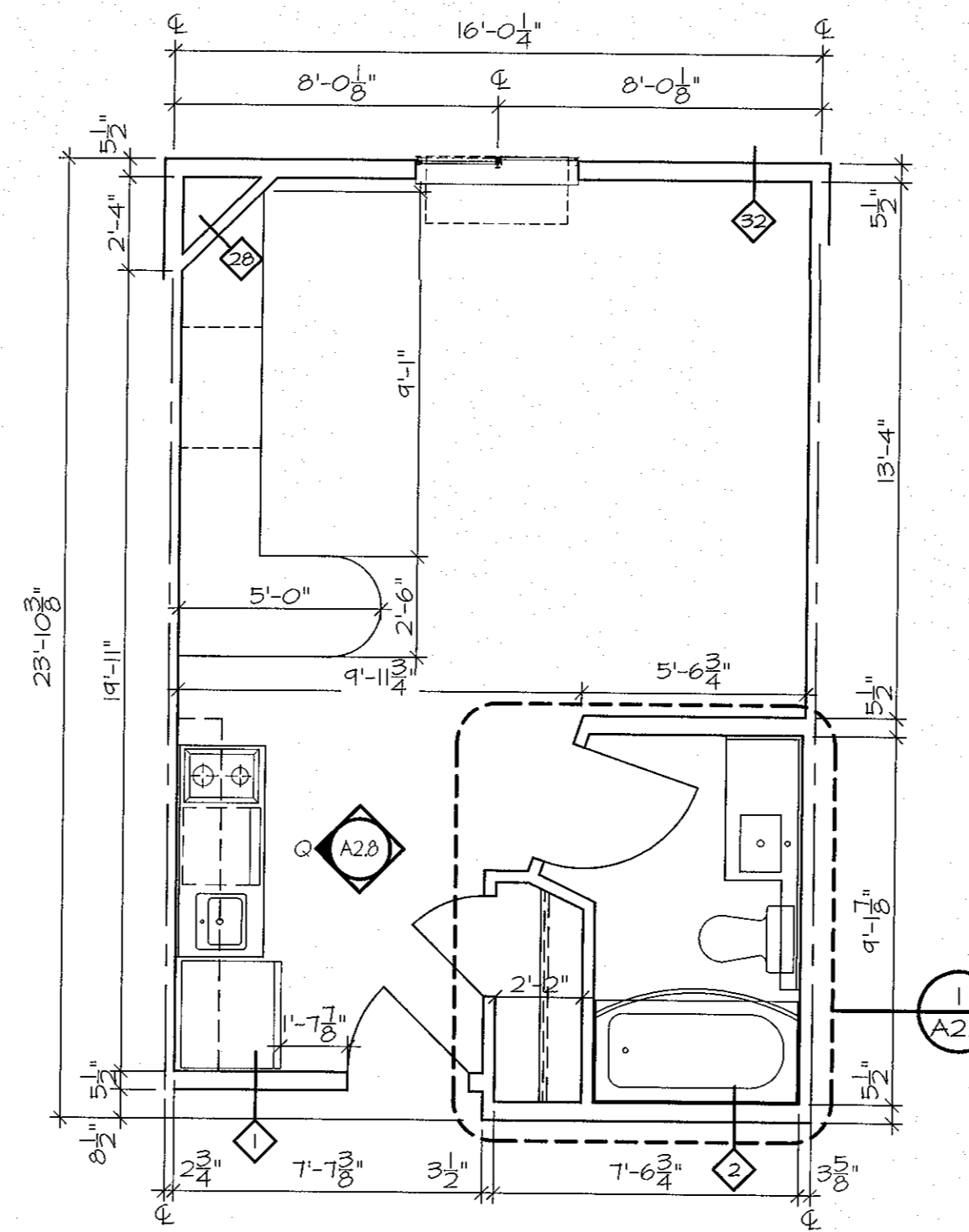
- A. ALL MILLWORK TO BE CONSTRUCTED PER 2013 PROTOTYPE DESIGN
- B. PROVIDE OUTLETS IN BACK OF CABINETS AS REQUIRED BY EQUIPMENT
- C. PROVIDE GROMMETS AS REQUIRED BY EQUIPMENT
- D. ALL DOORS TO HAVE CONCEALED HINGES
- E. ALL DOORS AND DRAWERS TO HAVE WIRE PULLS
- F. ALL DRAWERS TO HAVE SIDE GLIDES
- G. MANUFACTURER TO VERIFY ALL DIMENSIONS WITH FRANCHISE.



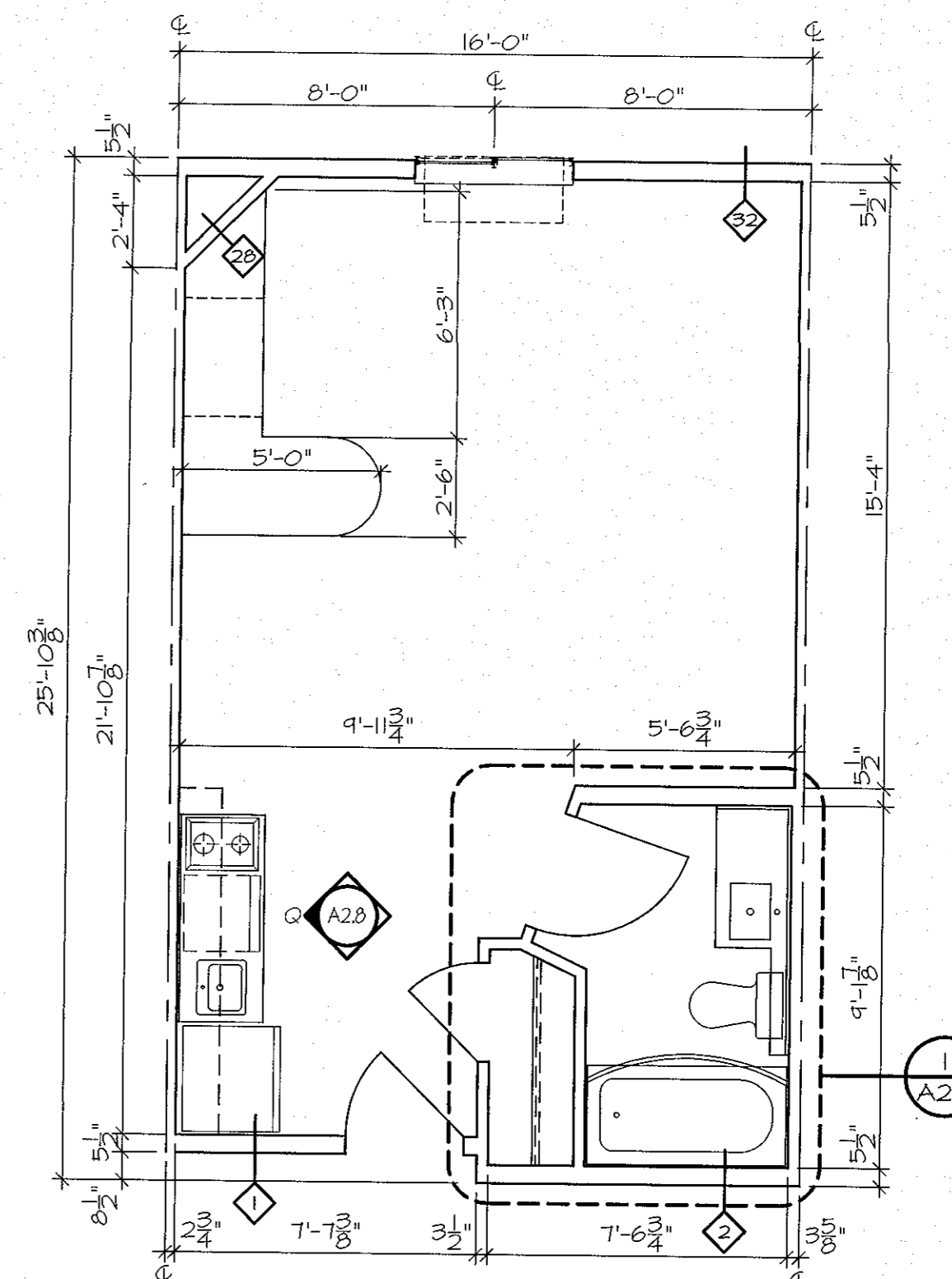
ENLARGED ROOM PLAN



ENLARGED ROOM PLAN

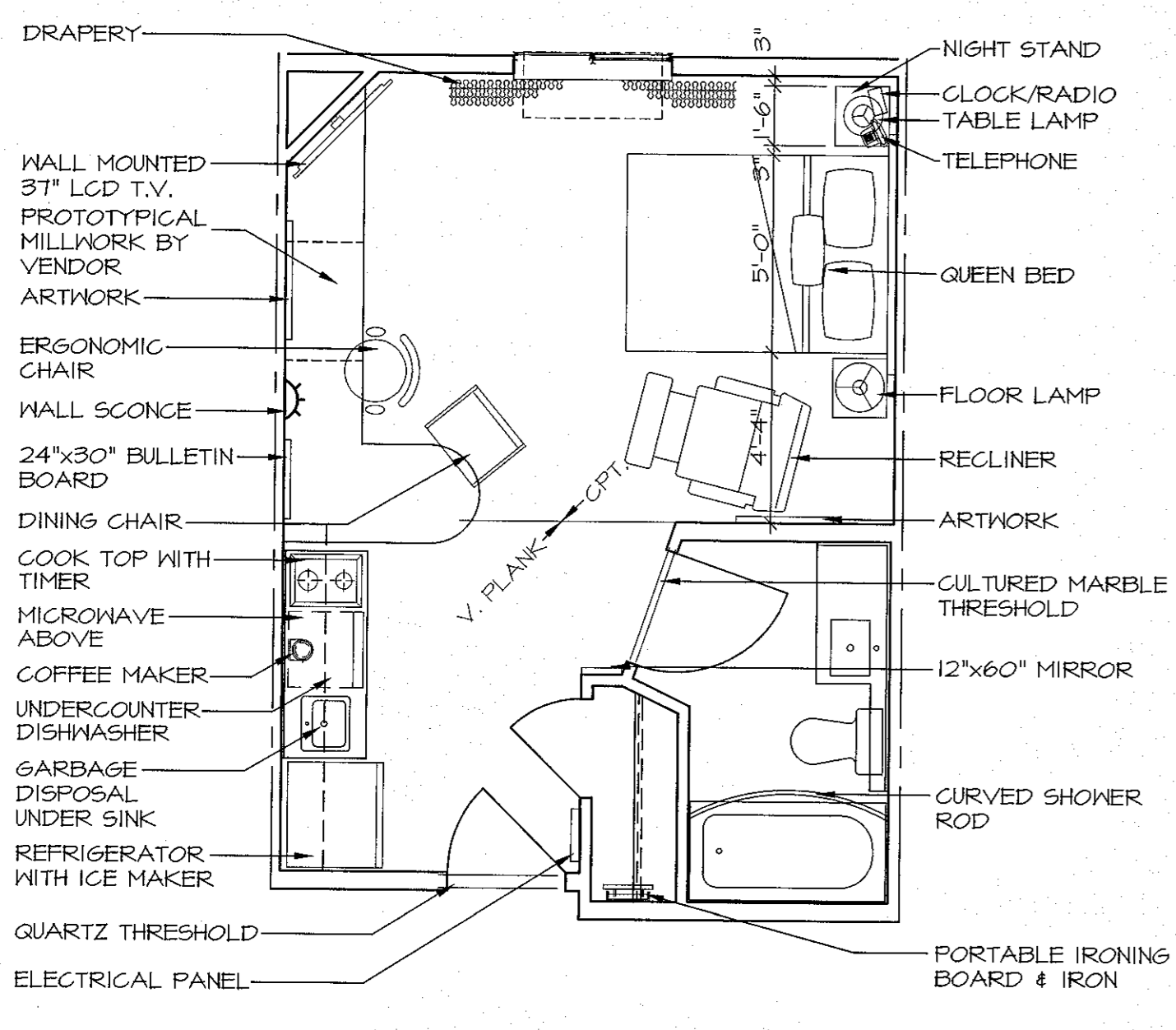


ENLARGED ROOM PLAN

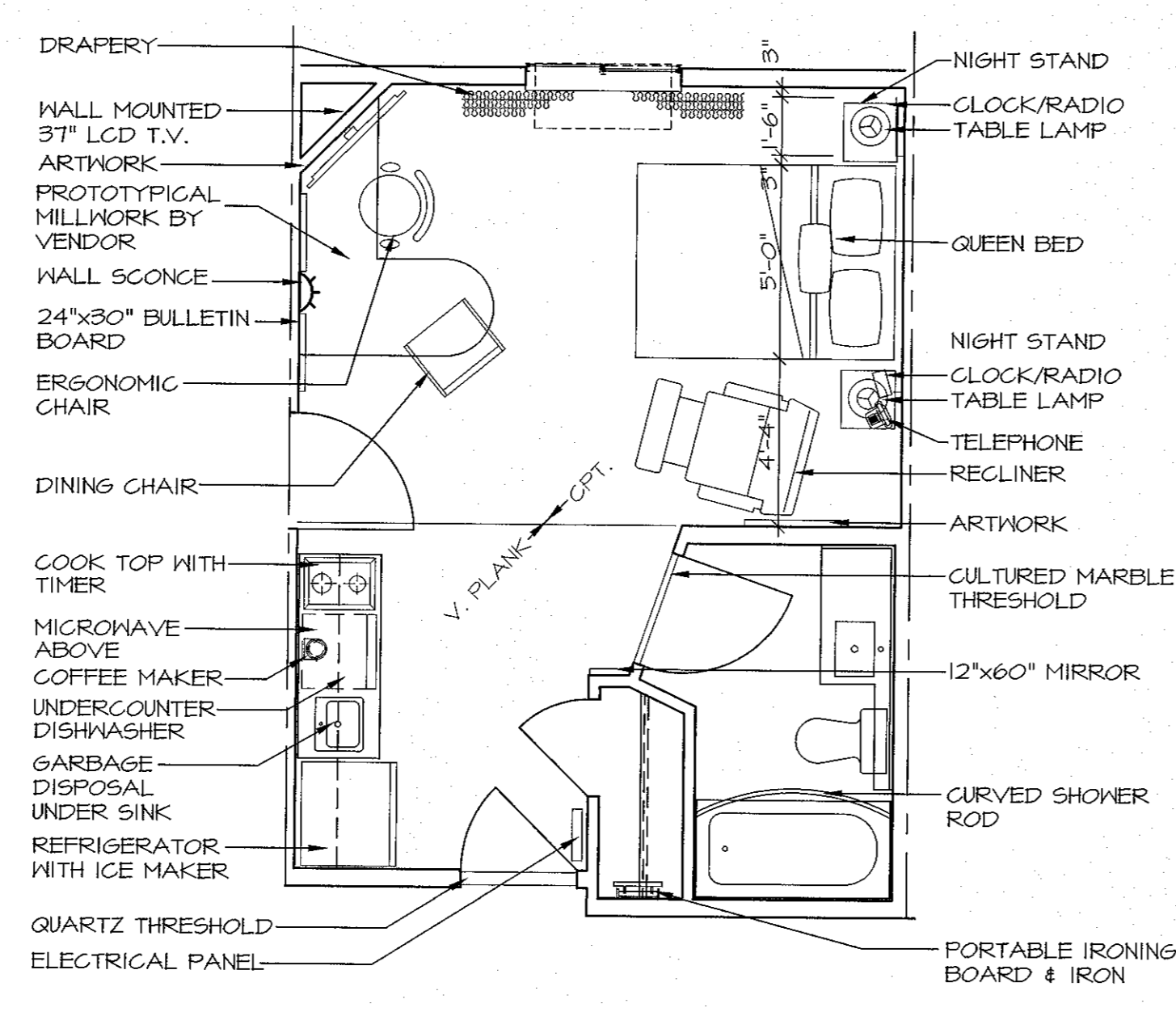


ENLARGED ROOM PLAN

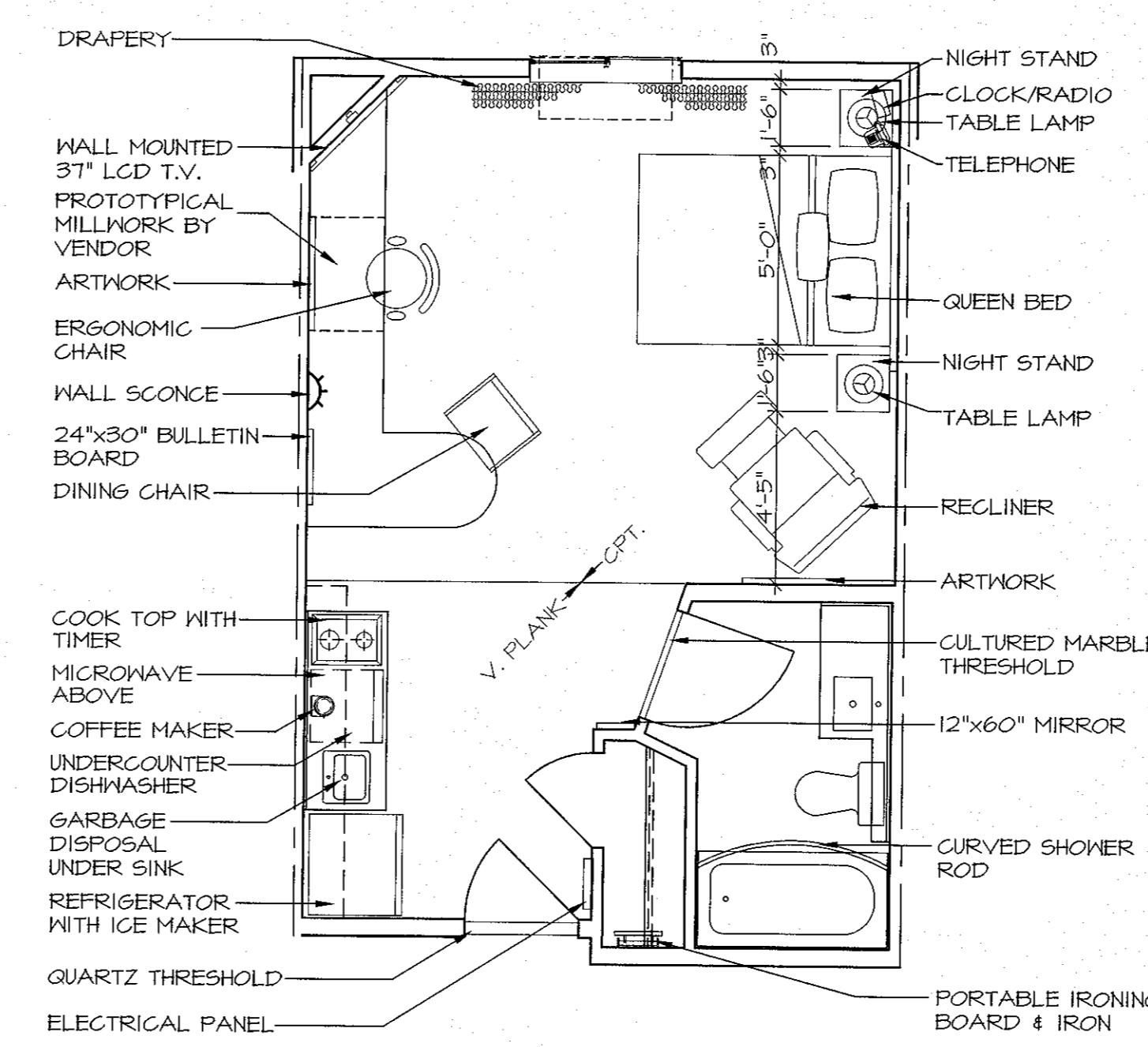
- GENERAL NOTES:**
1. PROVIDE SOLID WOOD BLOCKING OR OTHER ATTACHMENT MATERIAL BEHIND GYPSUM BOARD PARTITIONS FOR ATTACHMENT OF ALL LIGHT FIXTURES & WALL MOUNTED ACCESSORIES, ETC. INCLUDING SHOWER HEADS & TUB FAUCETS VERIFY BACKING HEIGHTS & LOCATION OF ELECTRICAL, CABLE, AND TELEPHONE CABLES. BLOCKING PROVIDED BY FRAMER.
 2. CAULK CONTINUOUS ALL FOUR SIDES OF HVAC UNIT @ OPENING, BY TRADE CONTRACTOR.
 3. BOTTOM OF DRAPES MUST HANG 1" ABOVE P.T.A.C. UNITS ALL FIRST FLOOR ROOMS MUST HAVE SHEERS WITH DRAPES.
 4. SUPERINTENDENT TO VERIFY ALL ROUGH-INS AND ROUGH-OPENINGS.
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 7. VERIFY ALL OWNER SUPPLIED FURNITURE SIZES PRIOR TO CONSTRUCTION. COORDINATE ANY CHANGES WITH ELECTRICAL.
 8. PROVIDE CORNER GUARDS ON OUTSIDE CORNERS IN ROOMS EXCEPT BATHROOMS.



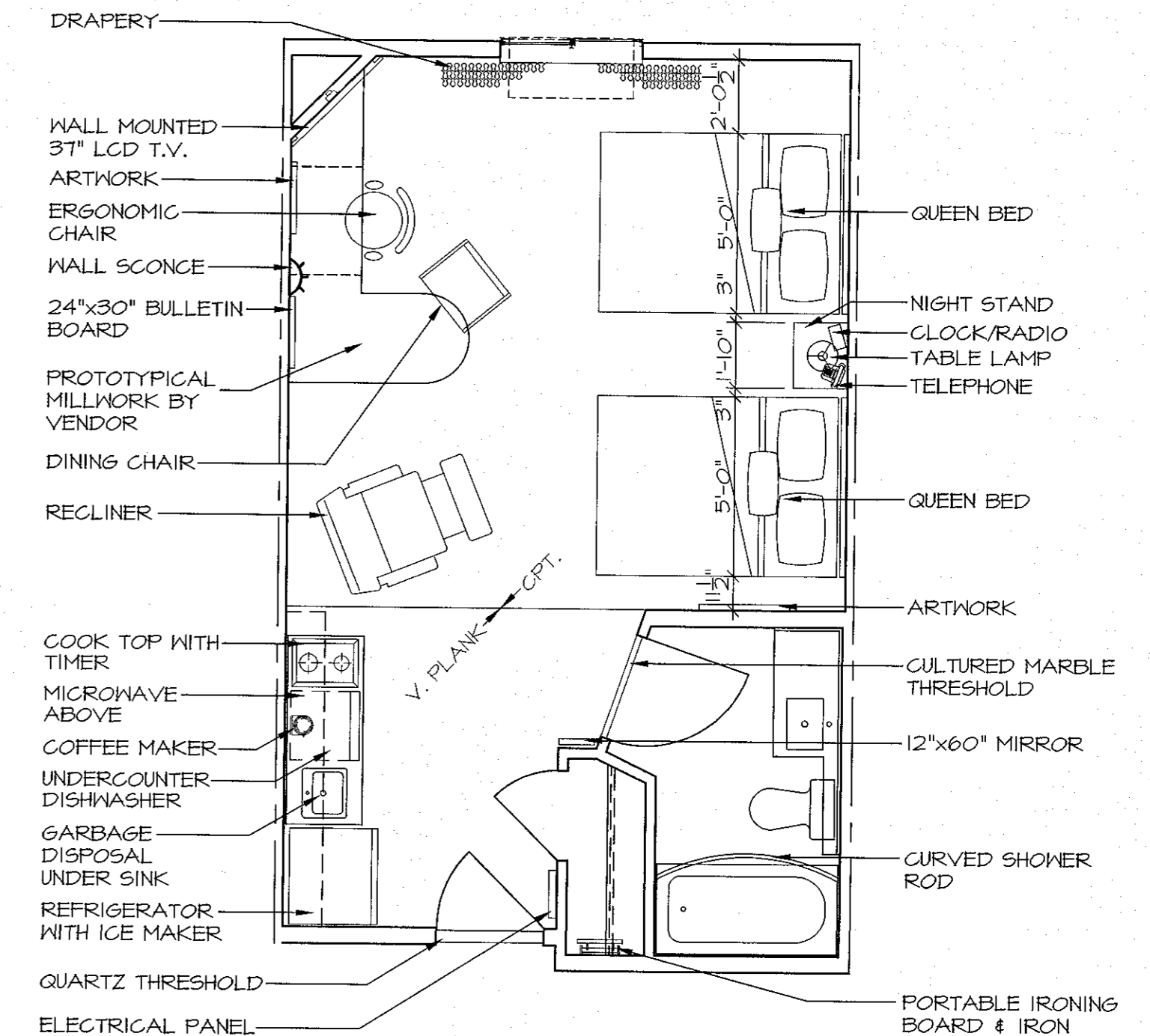
'A' SINGLE QUEEN STUDIO
ROOM TYPE 'A'
SCALE: 1/4" = 1'-0"



'A1' SINGLE QUEEN STUDIO, ADJOINING
ROOM TYPE 'A1'
SCALE: 1/4" = 1'-0"

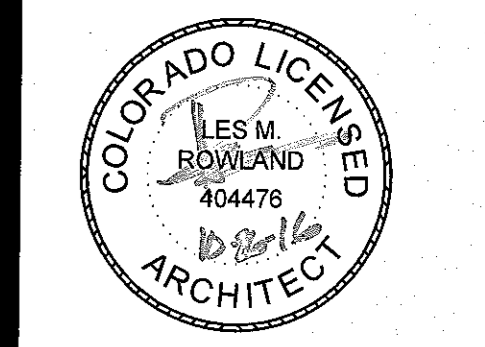


'A2' SINGLE QUEEN STUDIO
ROOM TYPE 'A2'
SCALE: 1/4" = 1'-0"



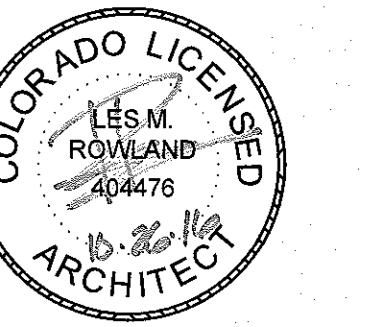
'B' DOUBLE QUEEN STUDIO
ROOM TYPE 'B'
SCALE: 1/4" = 1'-0"

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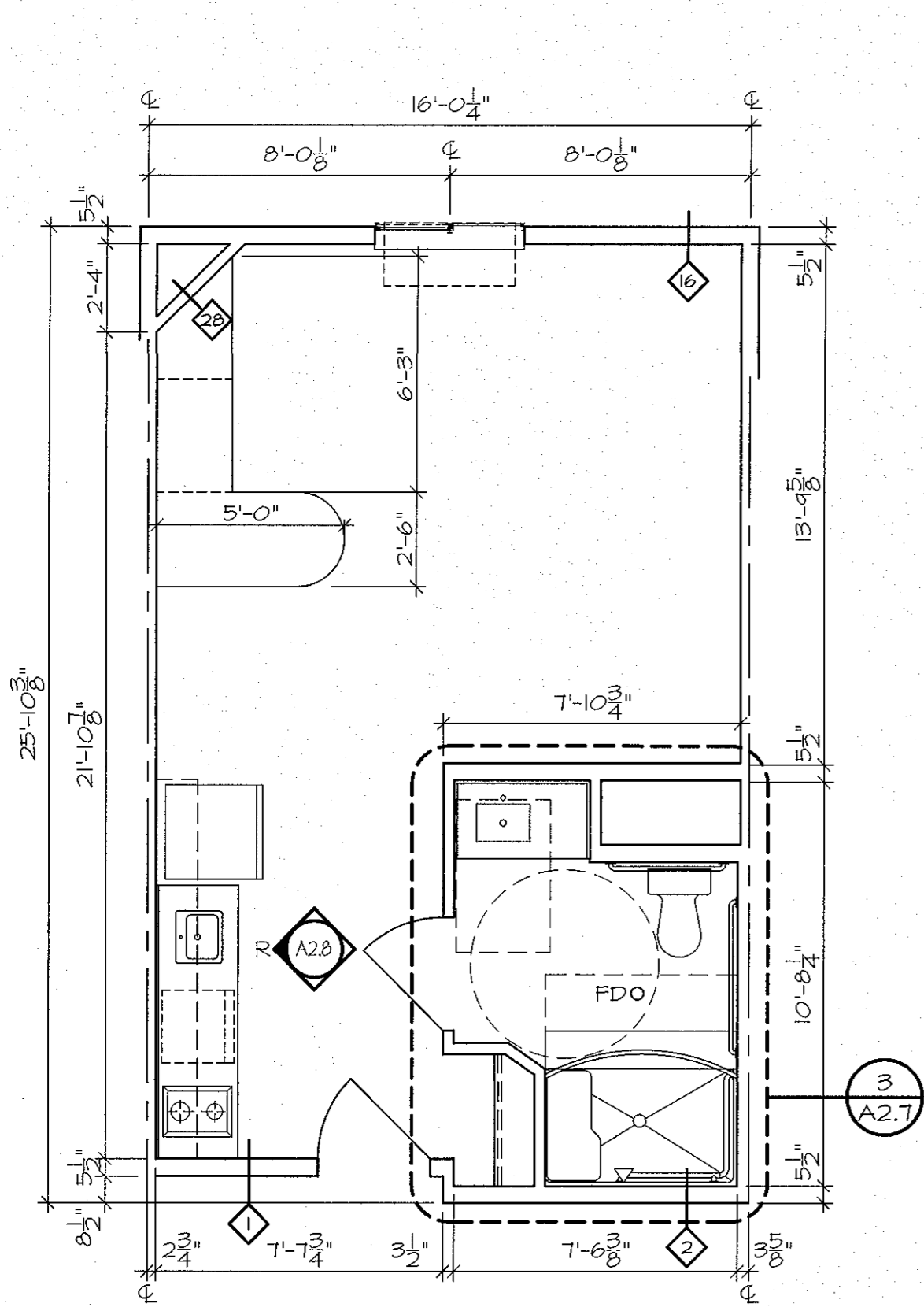


ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

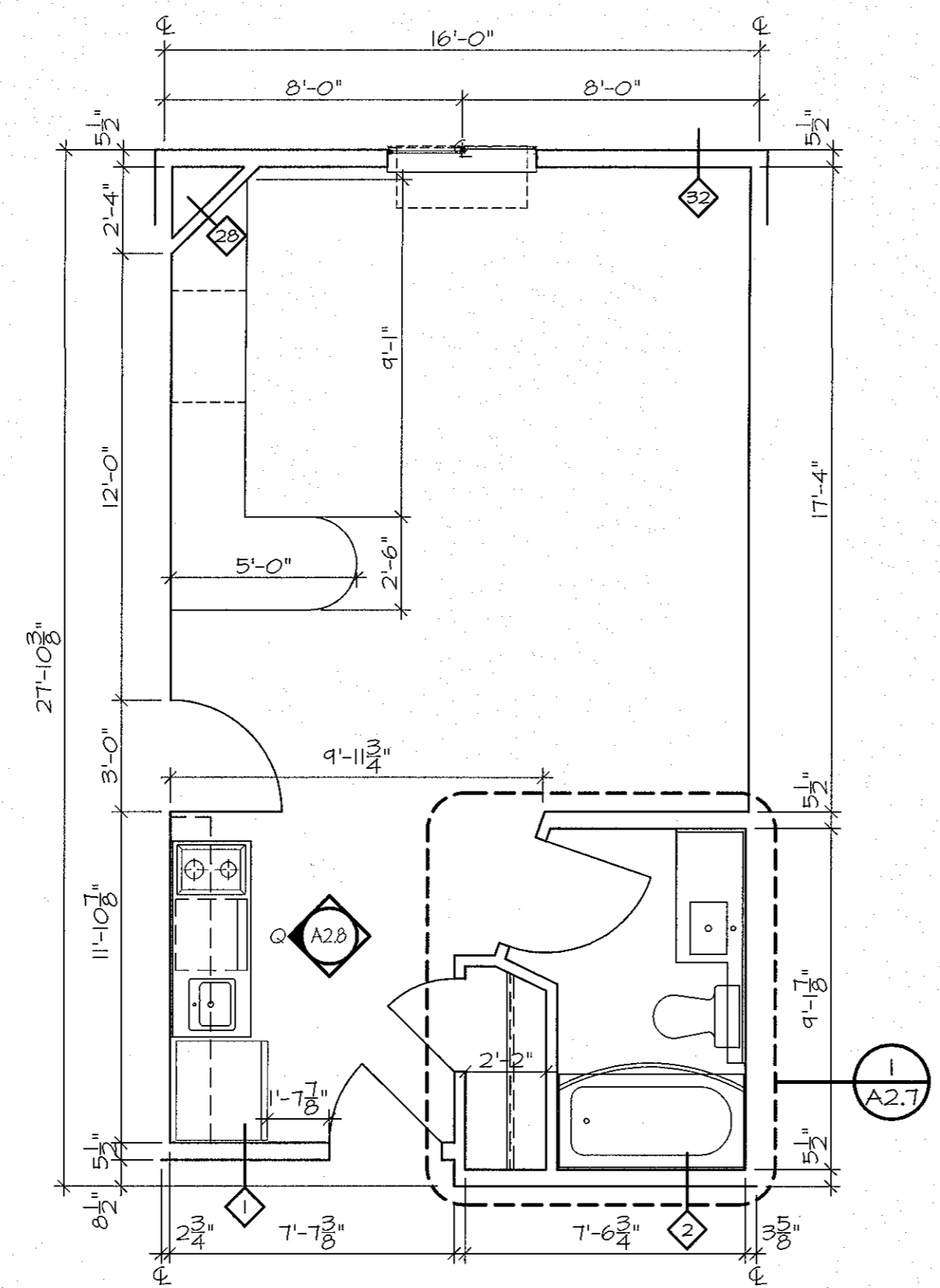
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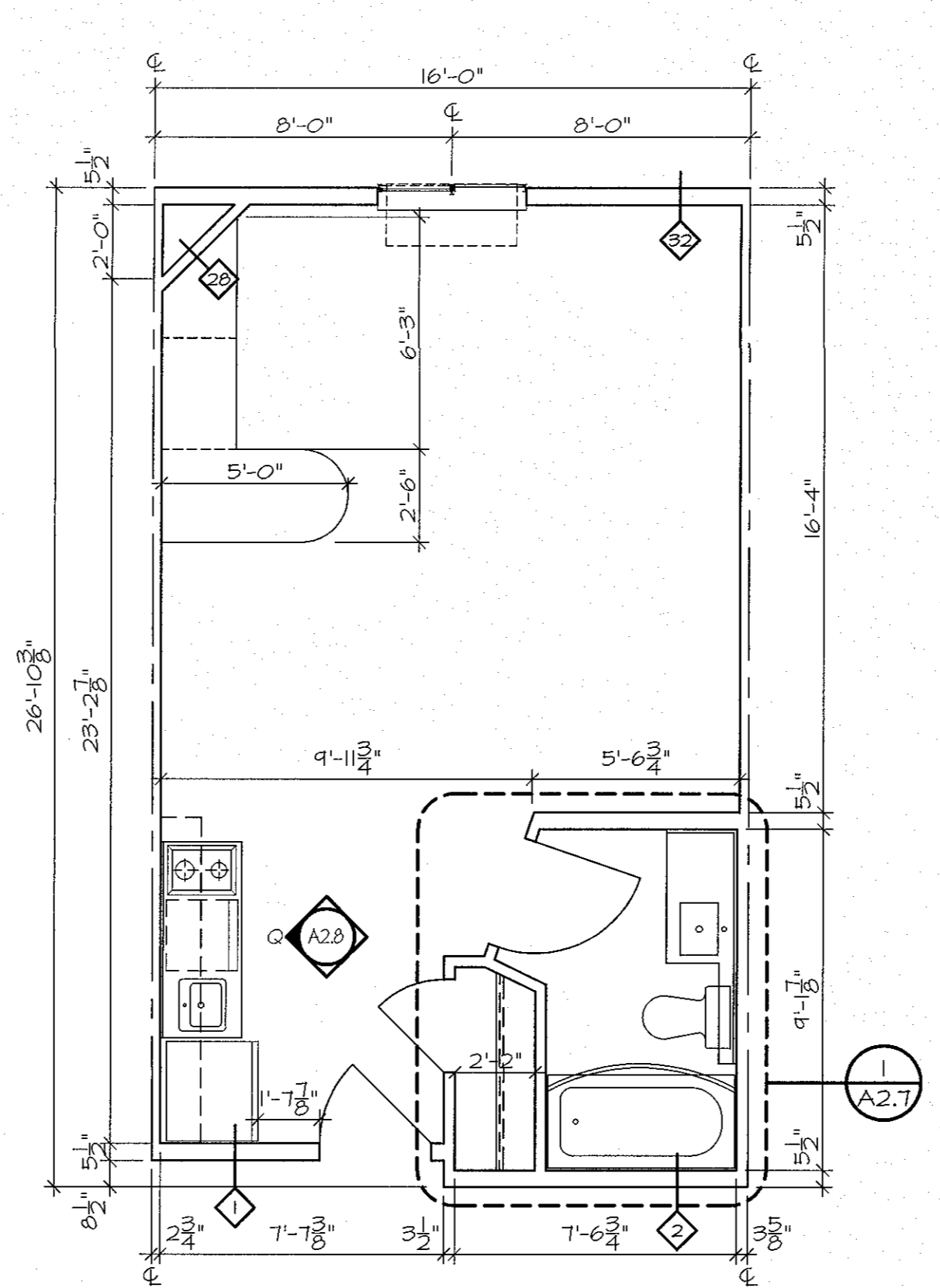
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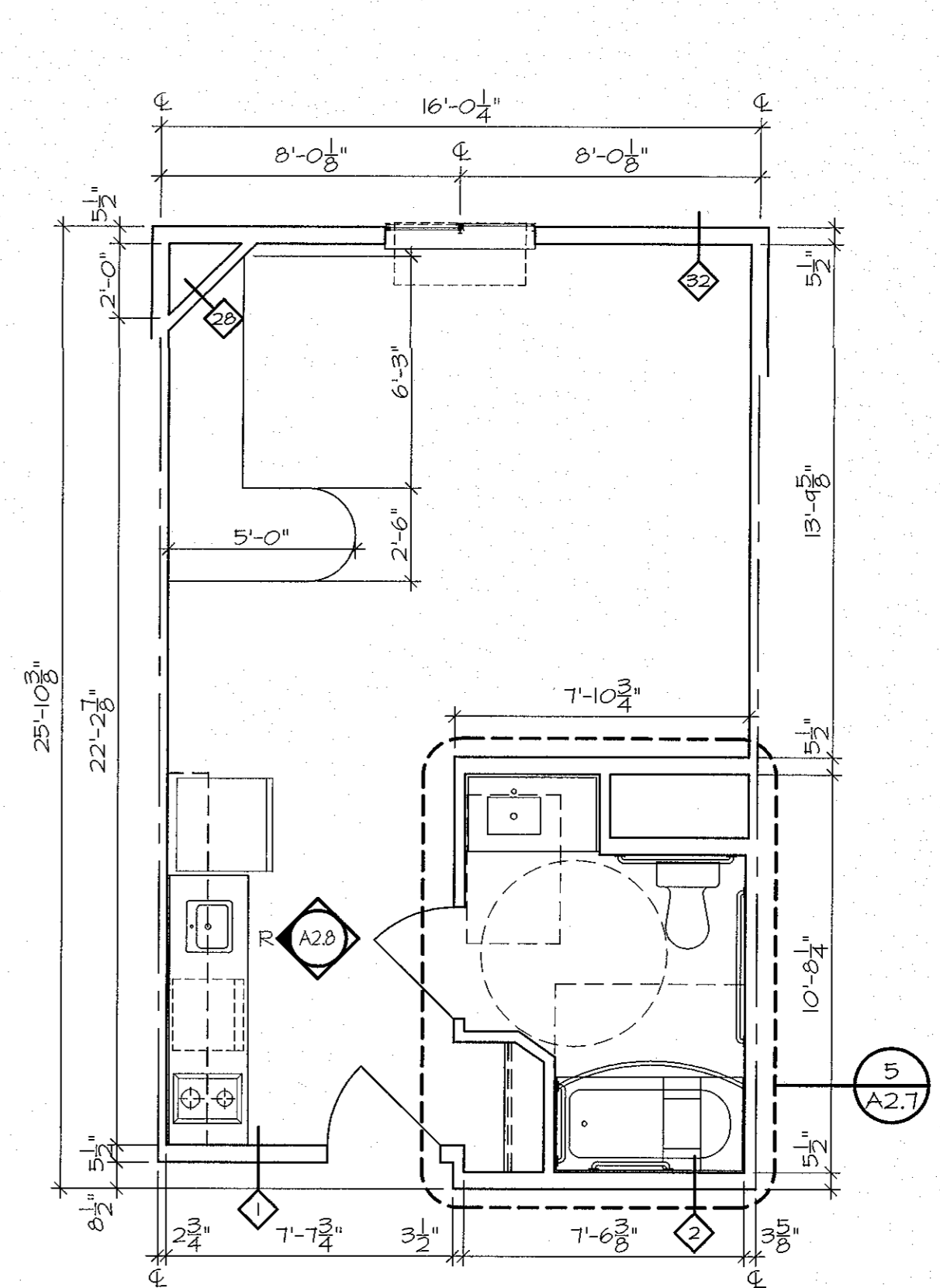
ENLARGED ROOM PLAN



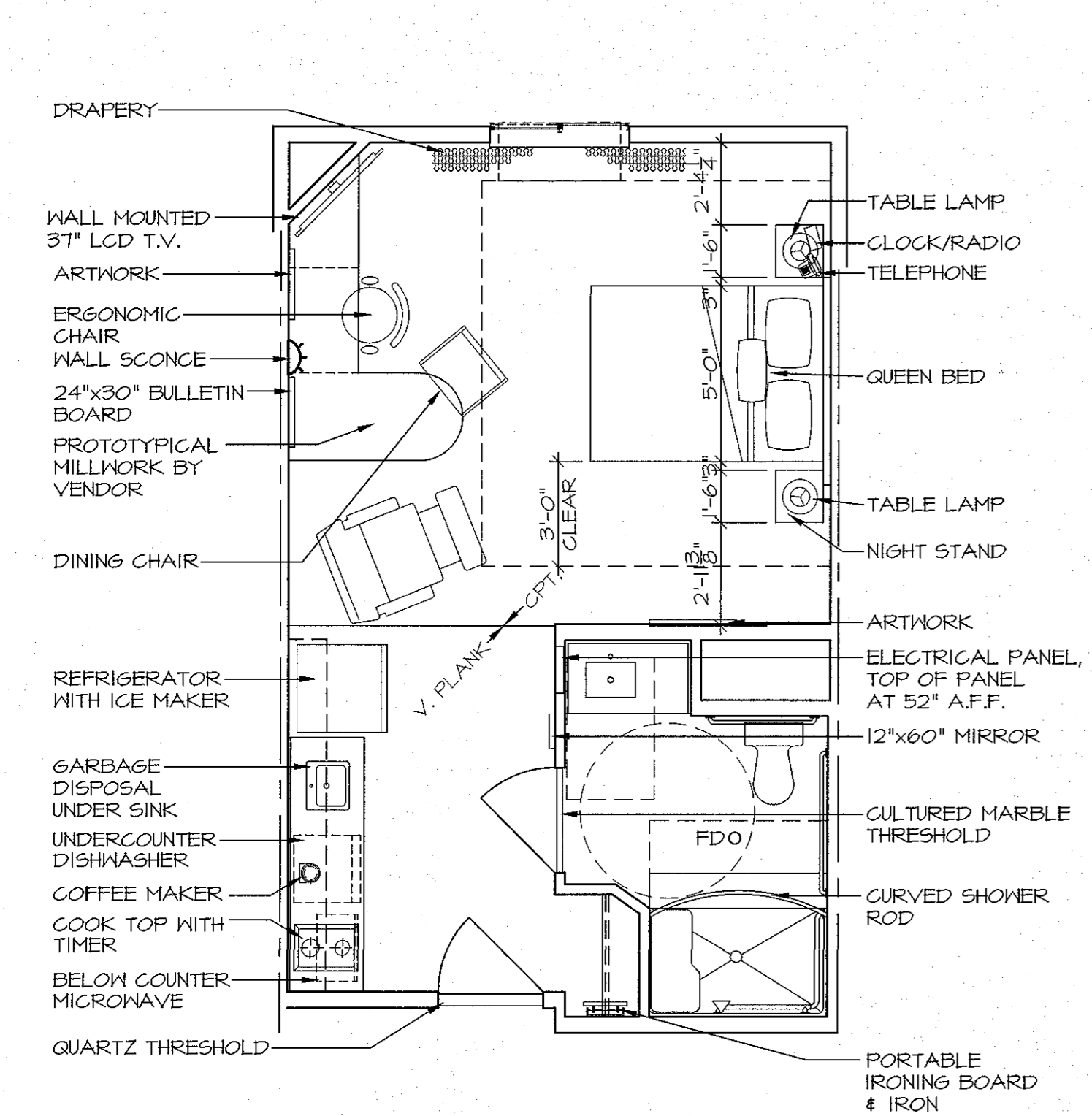
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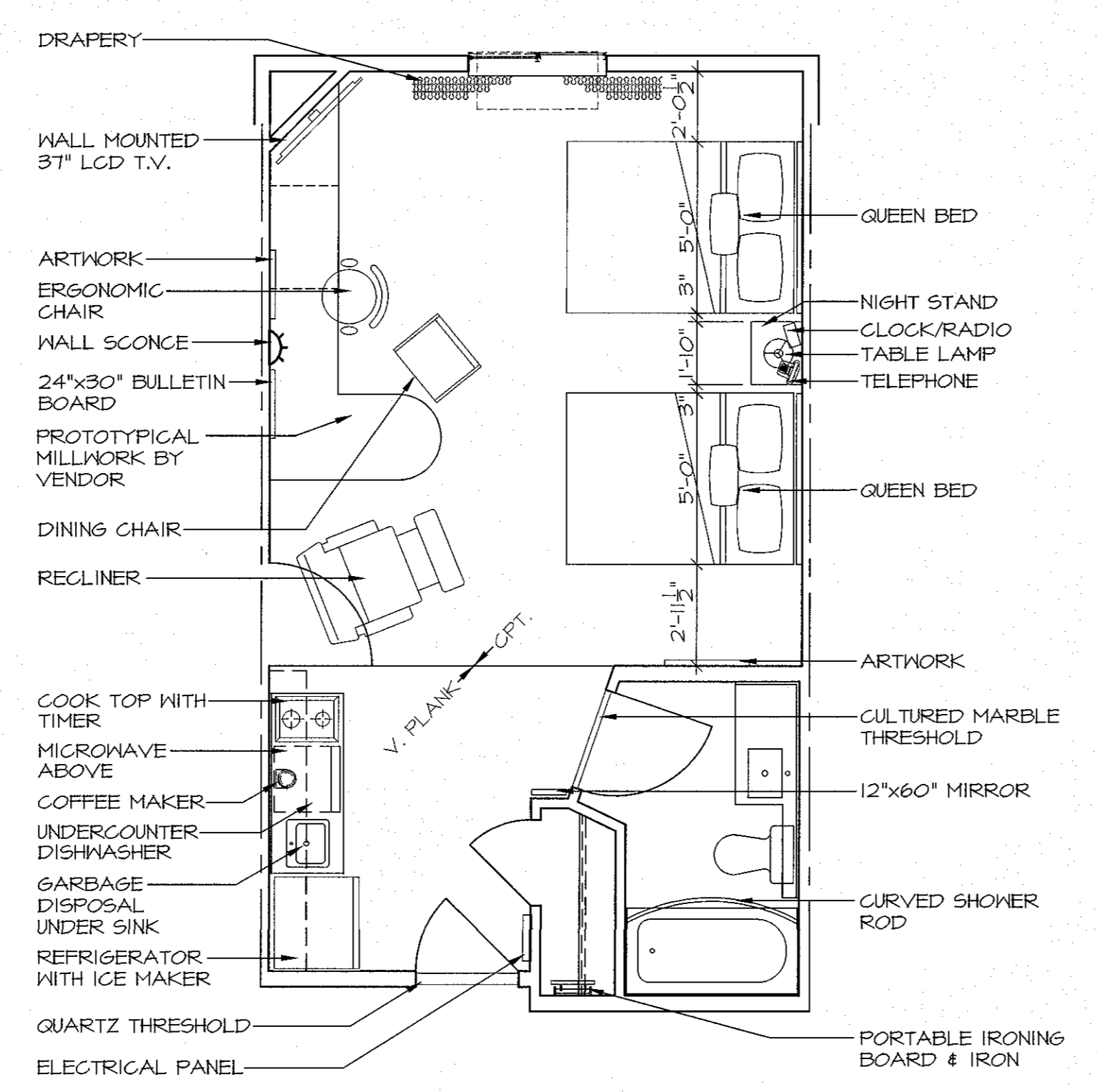
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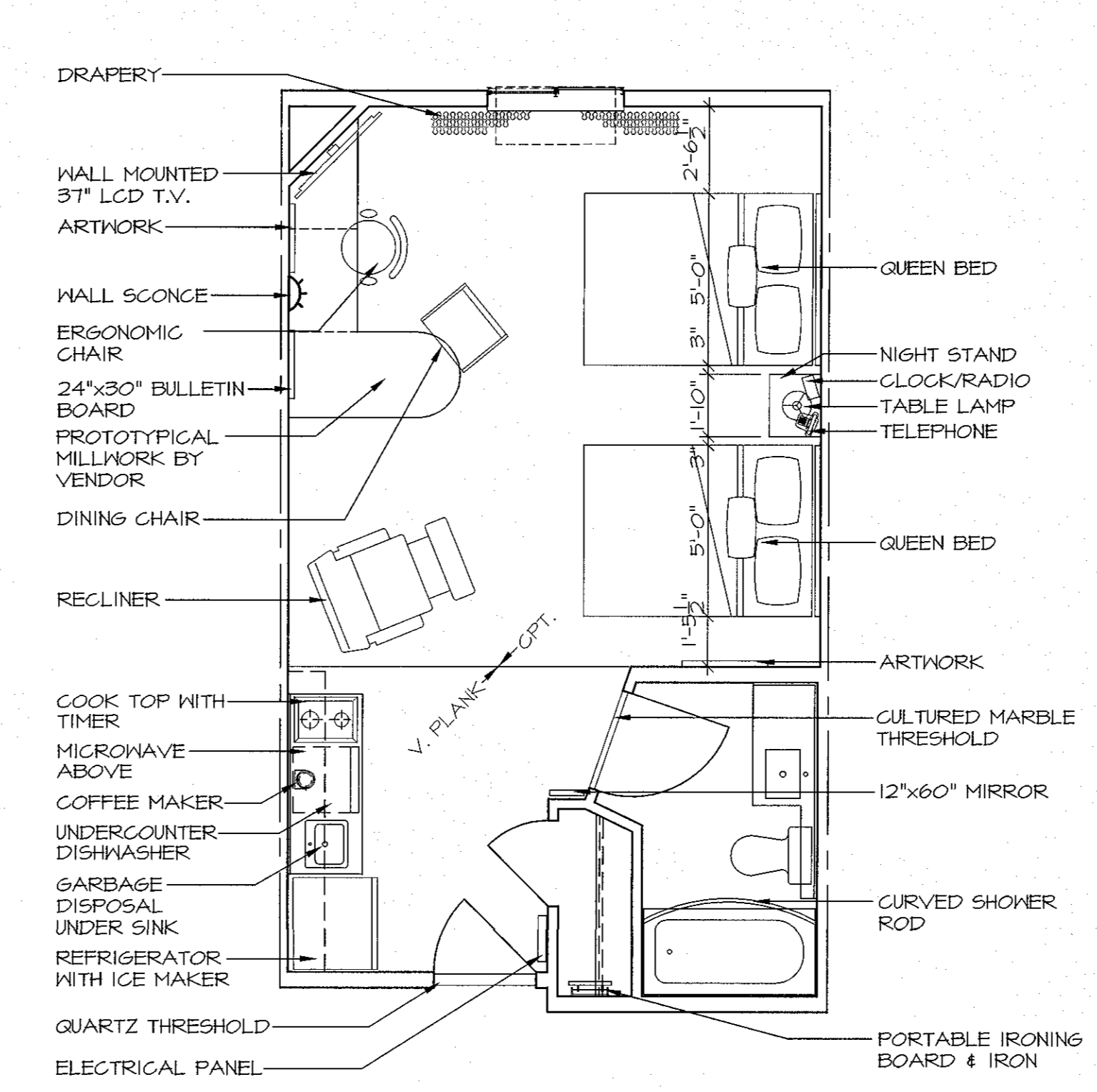
- GENERAL NOTES:**
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 2. CAULK CONTINUOUS ALL FOUR SIDES OF HVAC UNIT @ OPENINGS, BY TRADE CONTRACTOR.
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 8. PROVIDE CORNER GUARDS ON OUTSIDE CORNERS IN ROOMS EXCEPT BATHROOMS.



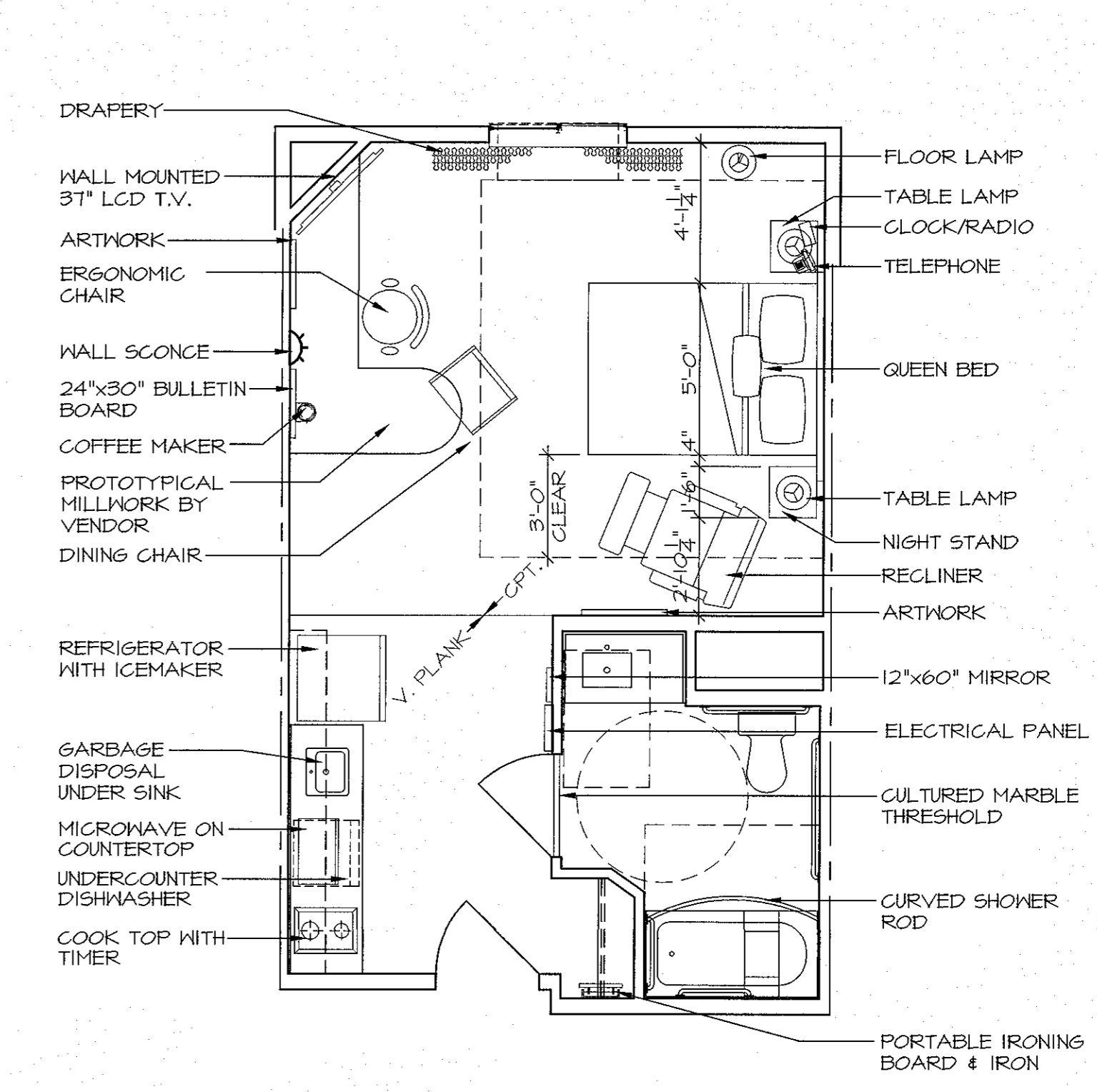
B1 ACCESSIBLE SINGLE QUEEN STUDIO
ROOM TYPE 'B1'
SCALE: 1/4" = 1'-0"



B2 DOUBLE QUEEN STUDIO ADJOINING
ROOM TYPE 'B2'
SCALE: 1/4" = 1'-0"



B3 DOUBLE QUEEN STUDIO
ROOM TYPE 'B3'
SCALE: 1/4" = 1'-0"

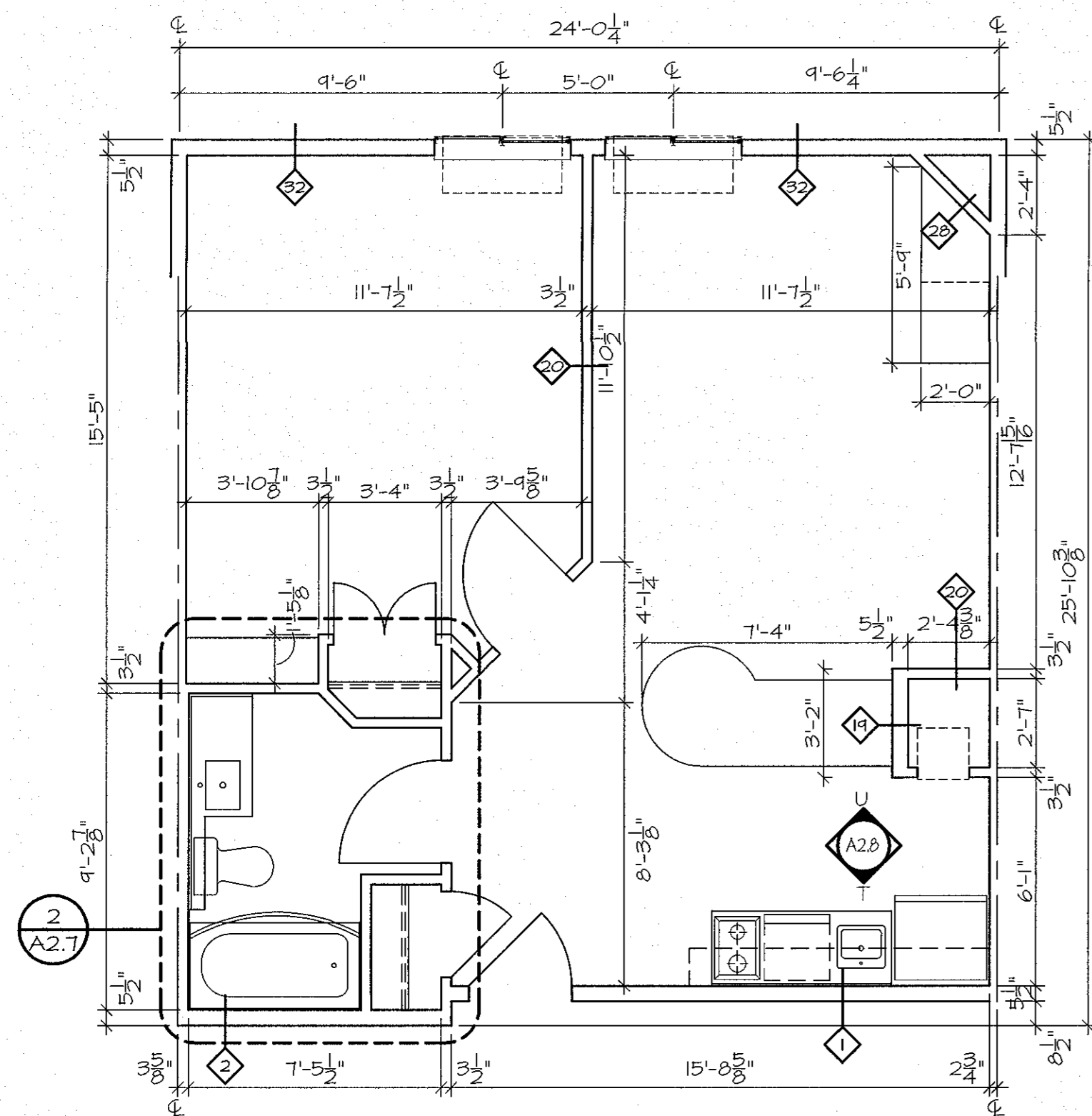


B4 ACCESSIBLE SINGLE QUEEN STUDIO
ROOM TYPE 'B4'
SCALE: 1/4" = 1'-0"

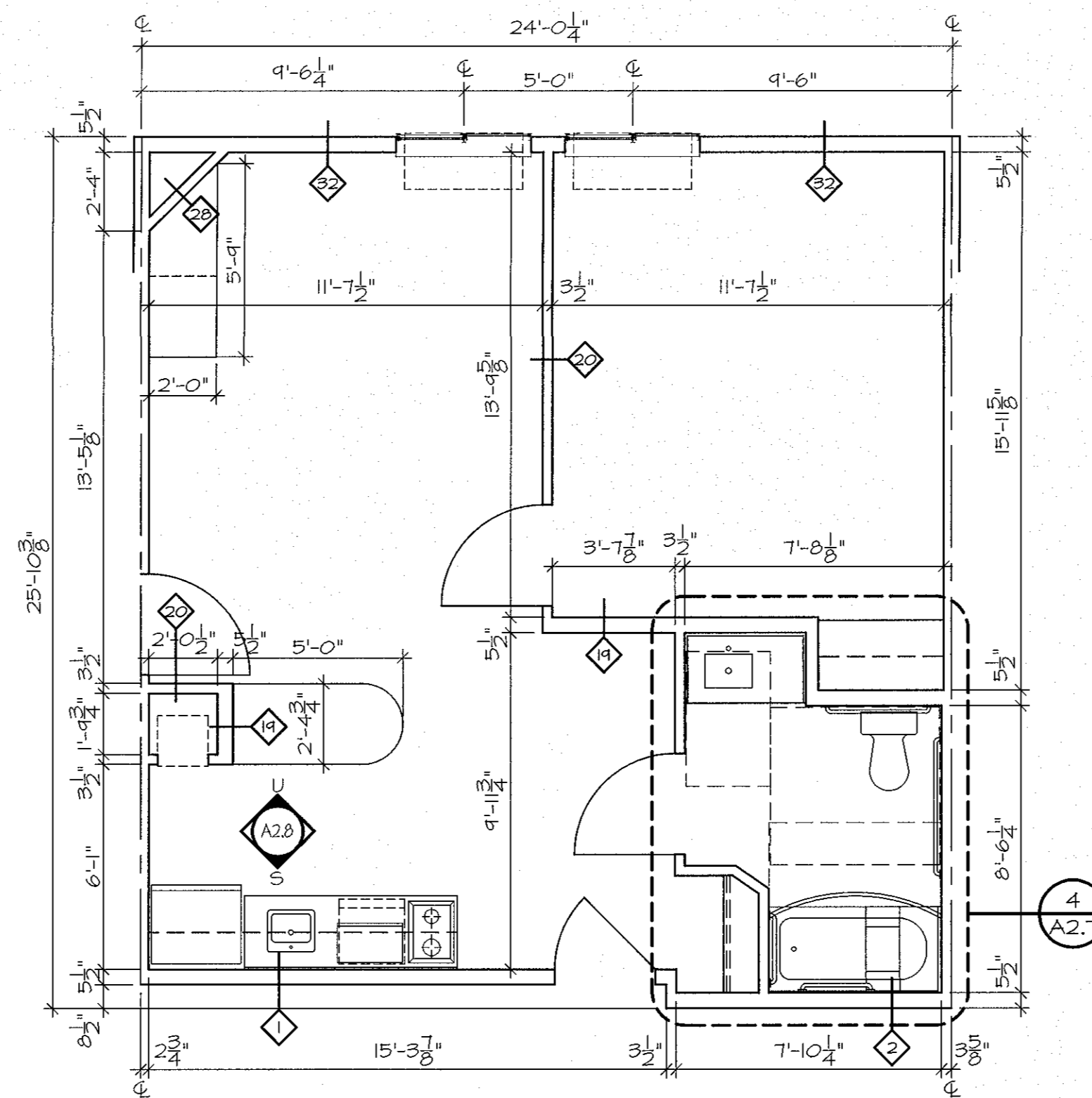
SHEET NAME:
Enlarged Room Types

PROJECT NO.
W16006
DRAWN BY:
CDS
CHECKED BY:
WLP
DATE:
10.26.2016

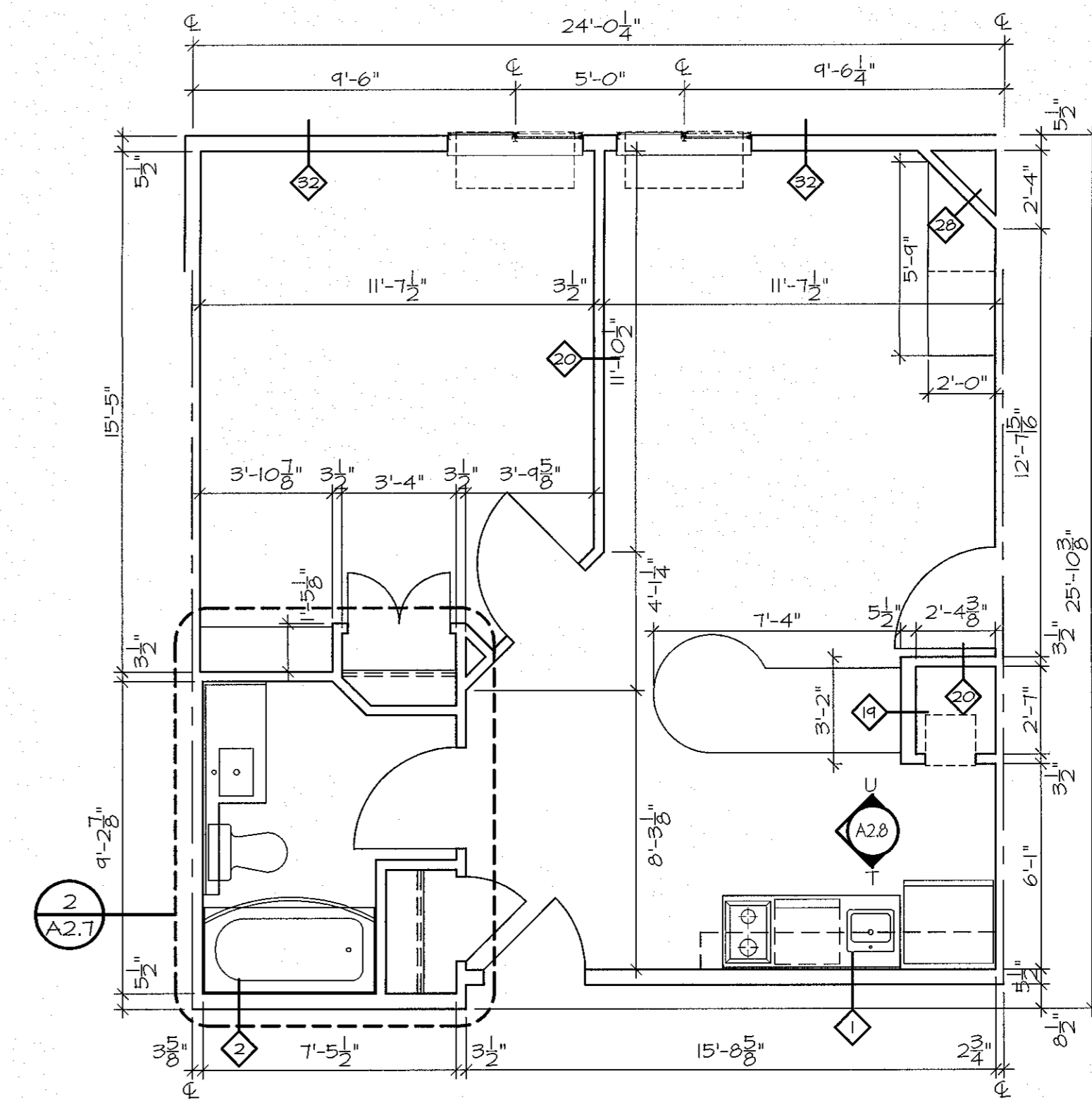
SHEET:
A2.4



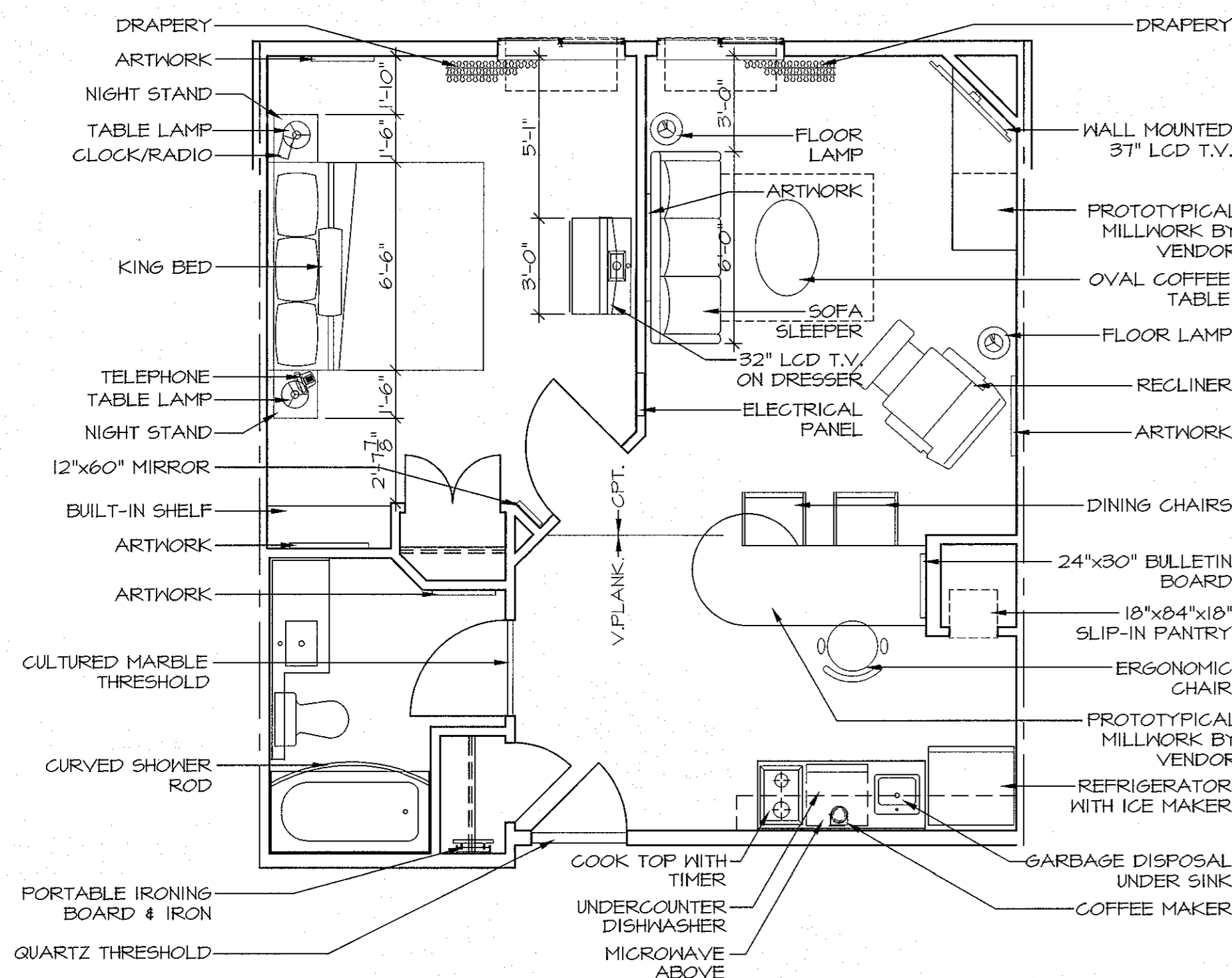
ENLARGED ROOM PLAN



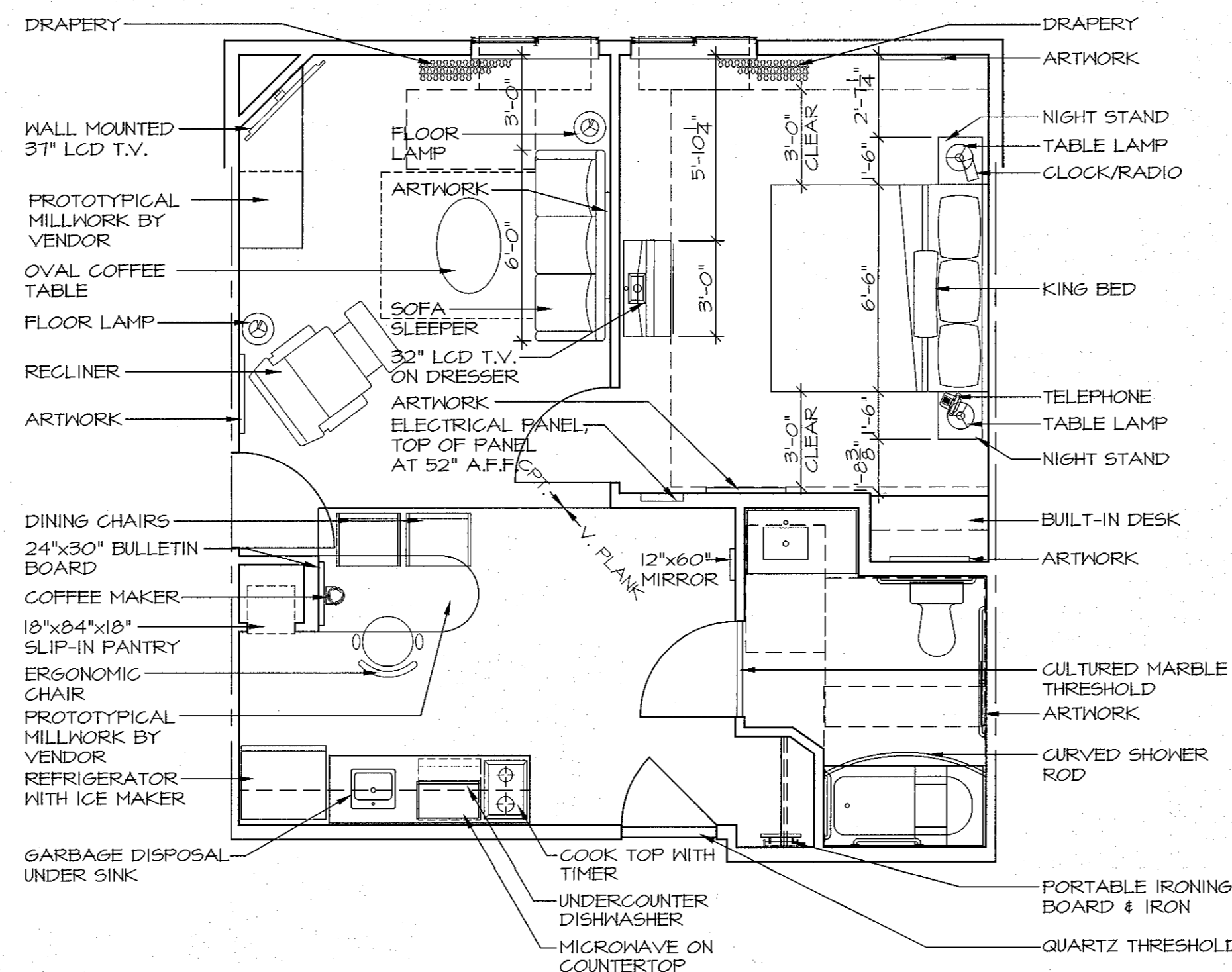
ENLARGED ROOM PLAN



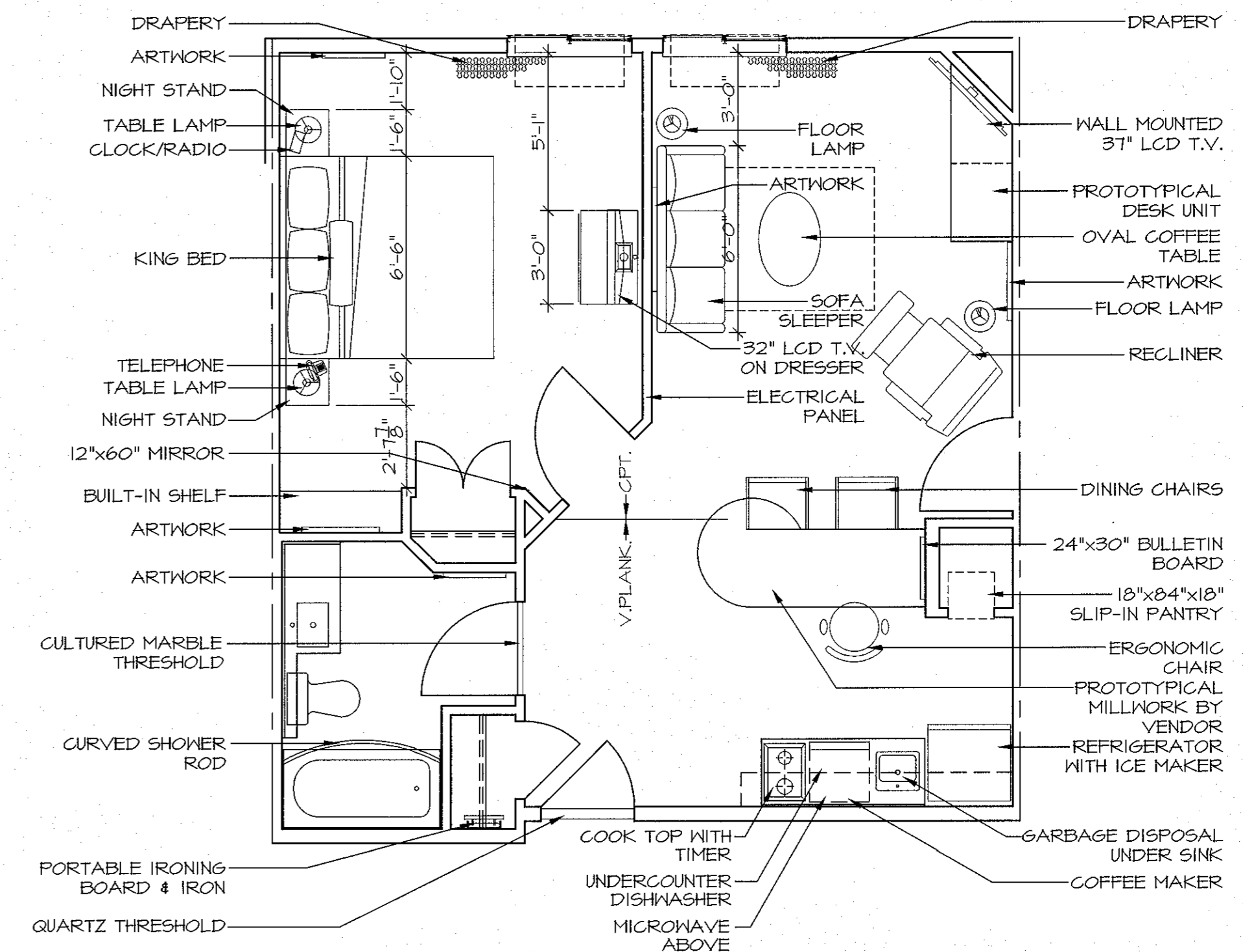
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 2. CAULK CONTINUOUS ALL FOUR SIDES OF HVAC UNIT @ OPENING, BY TRADE CONTRACTOR.
 3. BOTTOM OF DRAPES MUST HANG 1" ABOVE P.T.A.C. UNITS ALL FIRST FLOOR ROOMS MUST HAVE SHEERS WITH DRAPES.
 4. SUPERINTENDENT TO VERIFY ALL ROUGH-INS AND ROUGH-OPENINGS.
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 6. VERIFY ARTWORK SIZE AND LOCATIONS WITH OWNER AND FRANCHISE STANDARDS.
 7. VERIFY ALL OWNER SUPPLIED FURNITURE SIZES PRIOR TO CONSTRUCTION, COORDINATE ANY CHANGES WITH ELECTRICAL.
 8. PROVIDE CORNER GUARDS ON OUTSIDE CORNERS IN ROOMS EXCEPT BATHROOMS.



C1 SINGLE KING SUITE
 ROOM TYPE 'C1'
 SCALE: 1/4" = 1'-0"



C1 ACCESSIBLE SINGLE KING SUITE
 ROOM TYPE 'C1'
 SCALE: 1/4" = 1'-0"



C2 SINGLE KING SUITE ADJOINING
 ROOM TYPE 'C2'
 SCALE: 1/4" = 1'-0"

Enlarged Room Types

SHEET NAME:

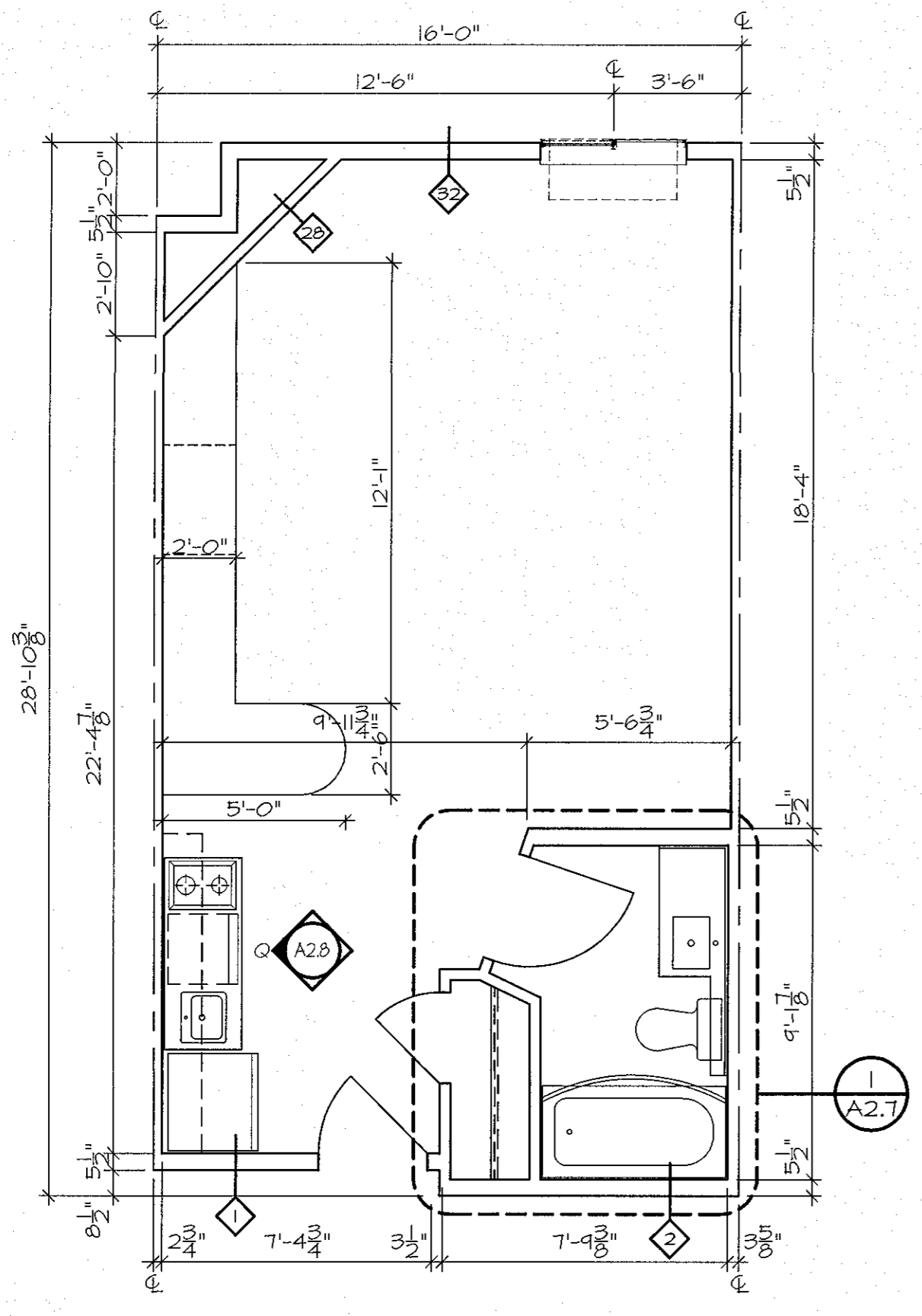
PROJECT NO.
W16006

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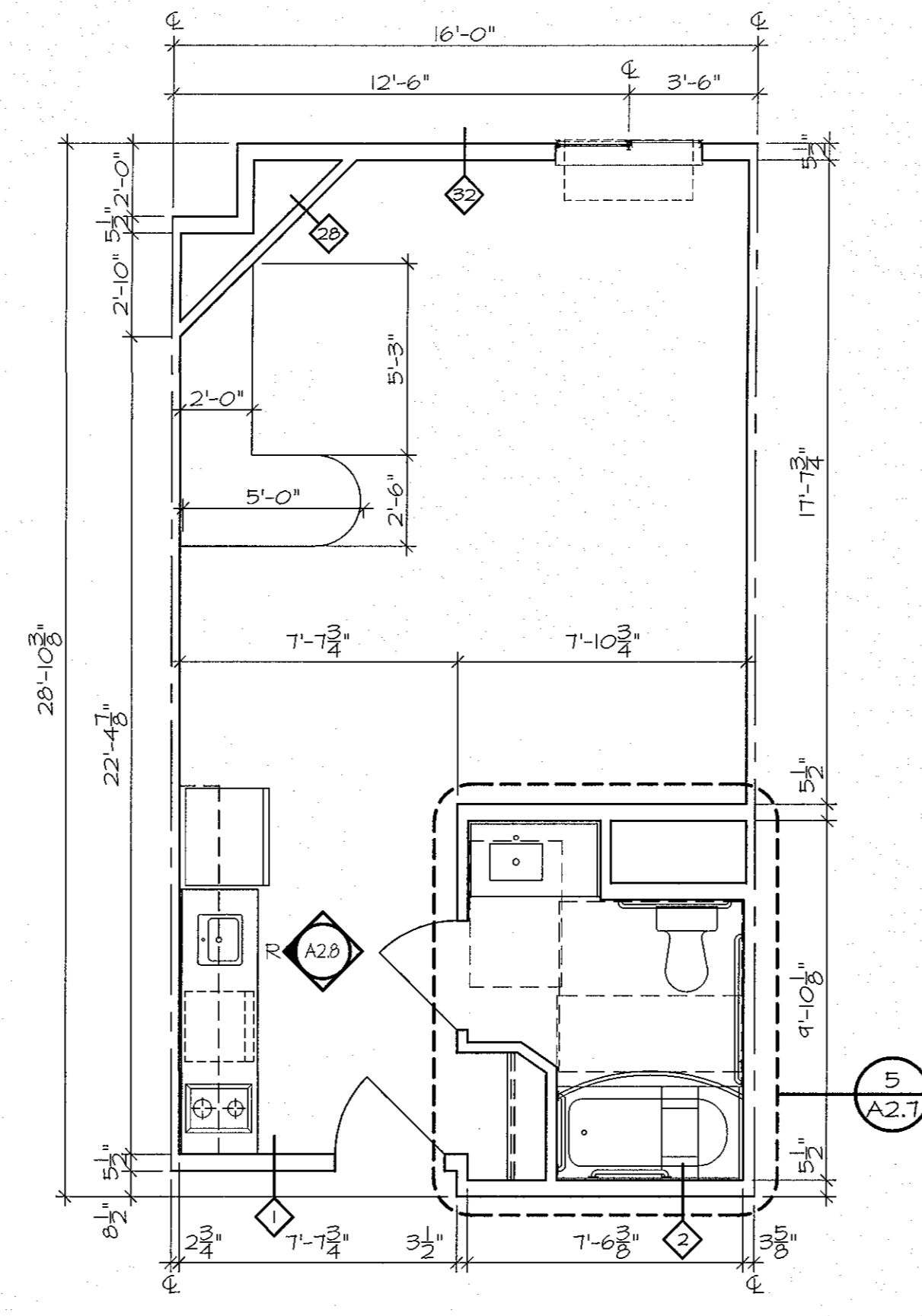
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DATE:
10.26.2016

SHEET:
A2.5

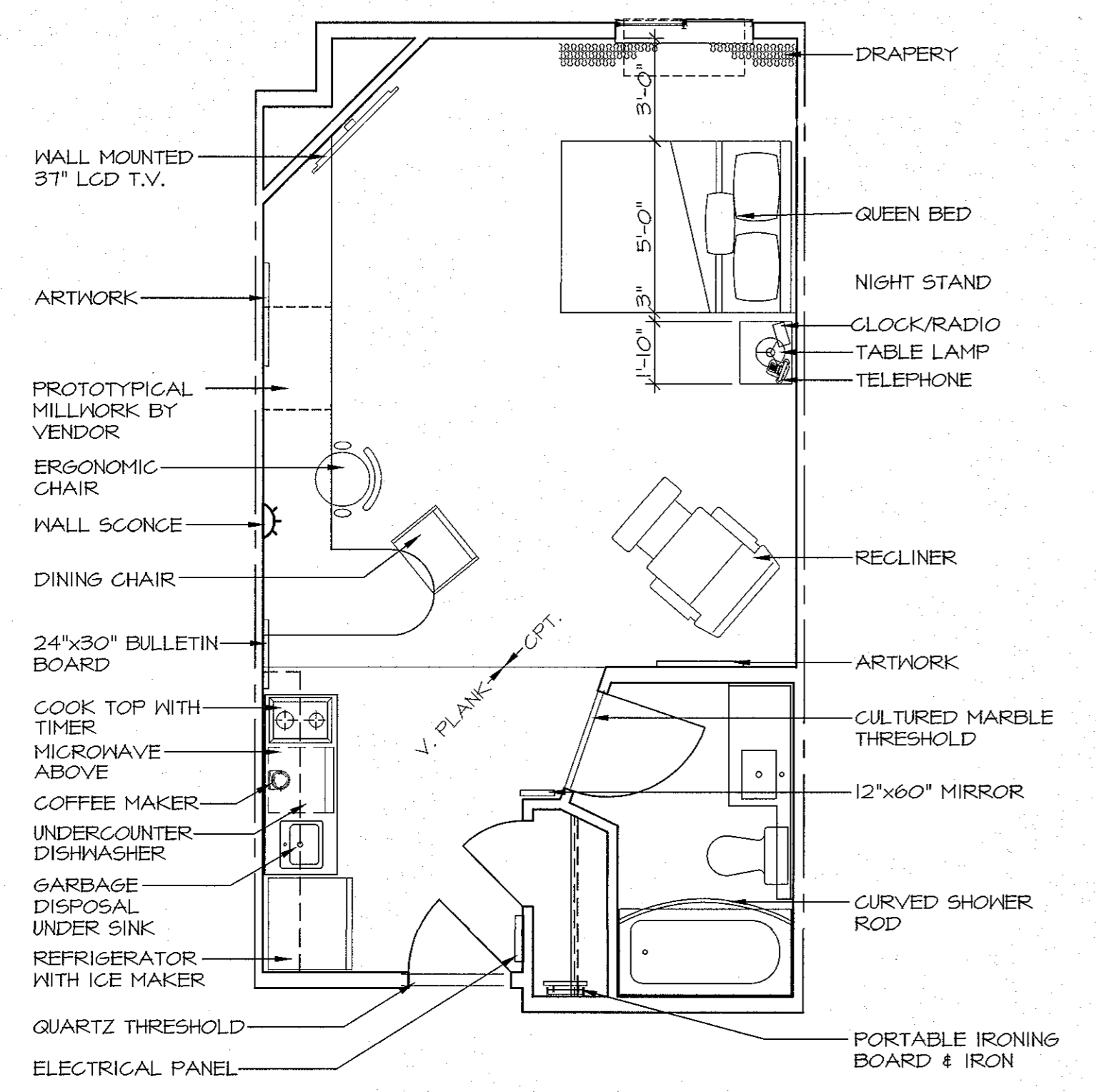


ENLARGED ROOM PLAN

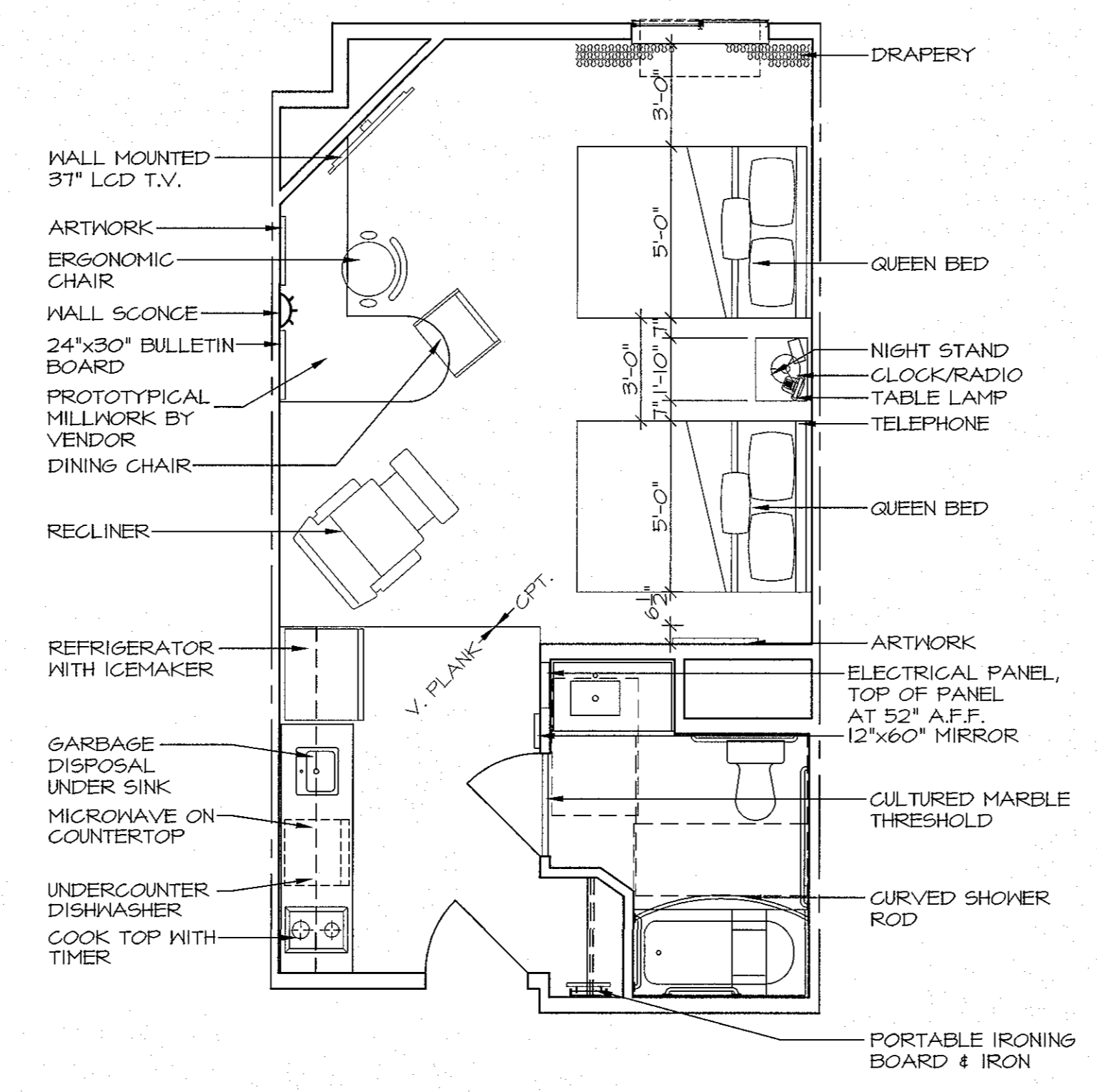


ENLARGED ROOM PLAN

- GENERAL NOTES:**
1. PROVIDE SOLID WOOD BLOCKING OR OTHER ATTACHMENT MATERIAL BEHIND GYPSUM BOARD PARTITIONS FOR ATTACHMENT OF ALL LIGHT FIXTURES & WALL MOUNTED ACCESSORIES, ETC. INCLUDING SHOWER HEADS & TUB FAUCETS VERIFY BACKING HEIGHTS & LOCATION OF ELECTRICAL, CABLE, AND TELEPHONE CABLES. BLOCKING PROVIDED BY FRAMER.
 2. CAULK CONTINUOUS ALL FOUR SIDES OF HVAC UNIT @ OPENINGS BY TRADE CONTRACTOR.
 3. BOTTOM OF DRAPES MUST HANG 1" ABOVE P.T.A.C. UNITS ALL FIRST FLOOR ROOMS MUST HAVE SHEERS WITH DRAPES.
 4. SUPERINTENDENT TO VERIFY ALL ROUGH-INS AND ROUGH-OPENINGS.
 5. PLUMBING AND ELECTRICAL LOCATIONS SHOWN SCHEMATICALLY ONLY. SUPERINTENDENT TO COORDINATE EXACT LOCATIONS WITH F.F. & E. AND SUB-CONTRACTORS.
 6. VERIFY ARTWORK SIZE AND LOCATIONS WITH OWNER AND FRANCHISE STANDARDS.
 7. VERIFY ALL OWNER SUPPLIED FURNITURE SIZES PRIOR TO CONSTRUCTION. COORDINATE ANY CHANGES WITH ELECTRICAL.
 8. PROVIDE CORNER GUARDS ON OUTSIDE CORNERS IN ROOMS EXCEPT BATHROOMS.

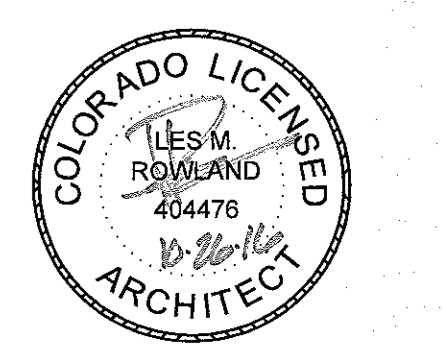


D' SINGLE QUEEN STUDIO
ROOM TYPE 'D'
SCALE: 1/4" = 1'-0"



D' ACCESSIBLE DOUBLE QUEEN STUDIO
ROOM TYPE 'D'
SCALE: 1/4" = 1'-0"

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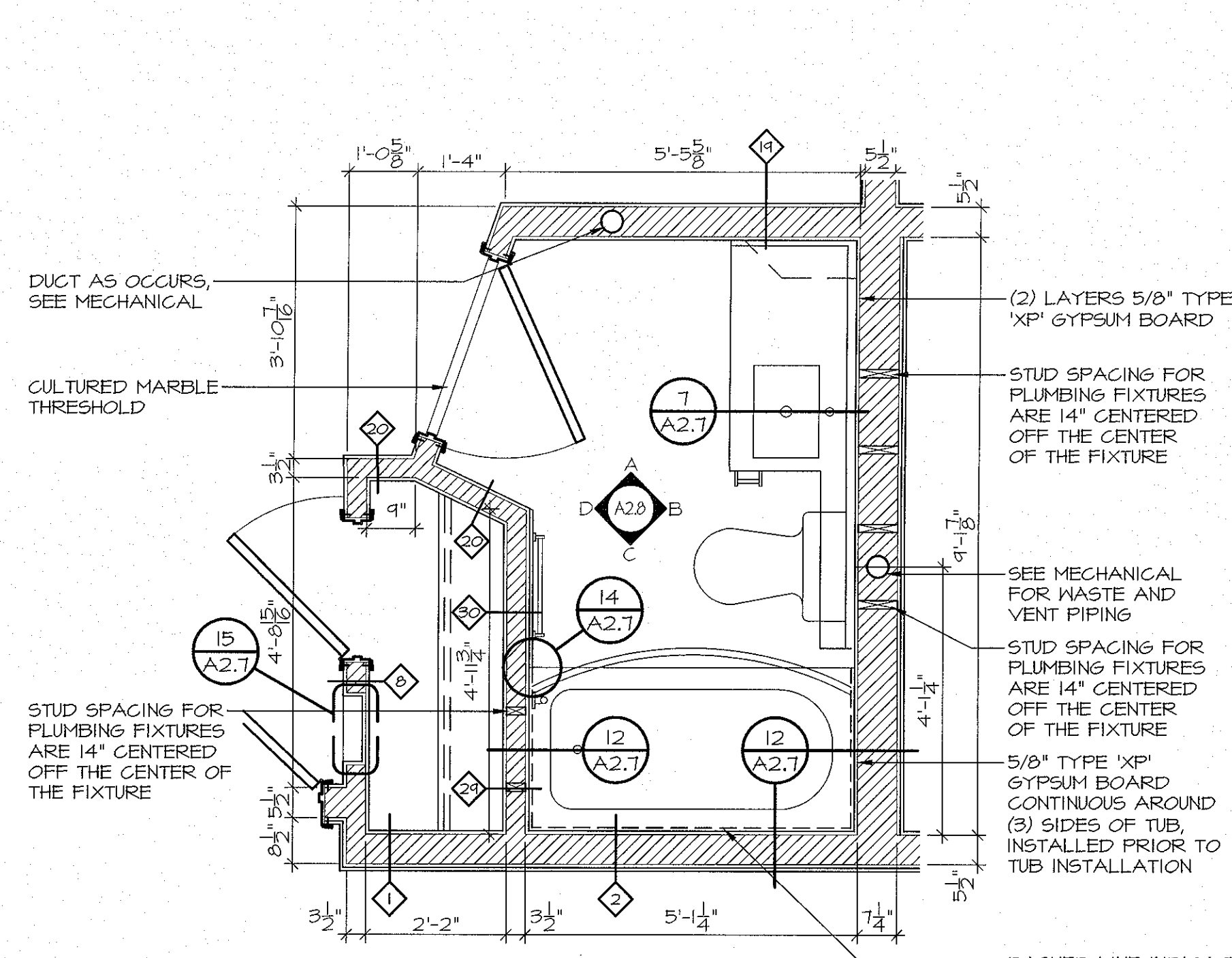


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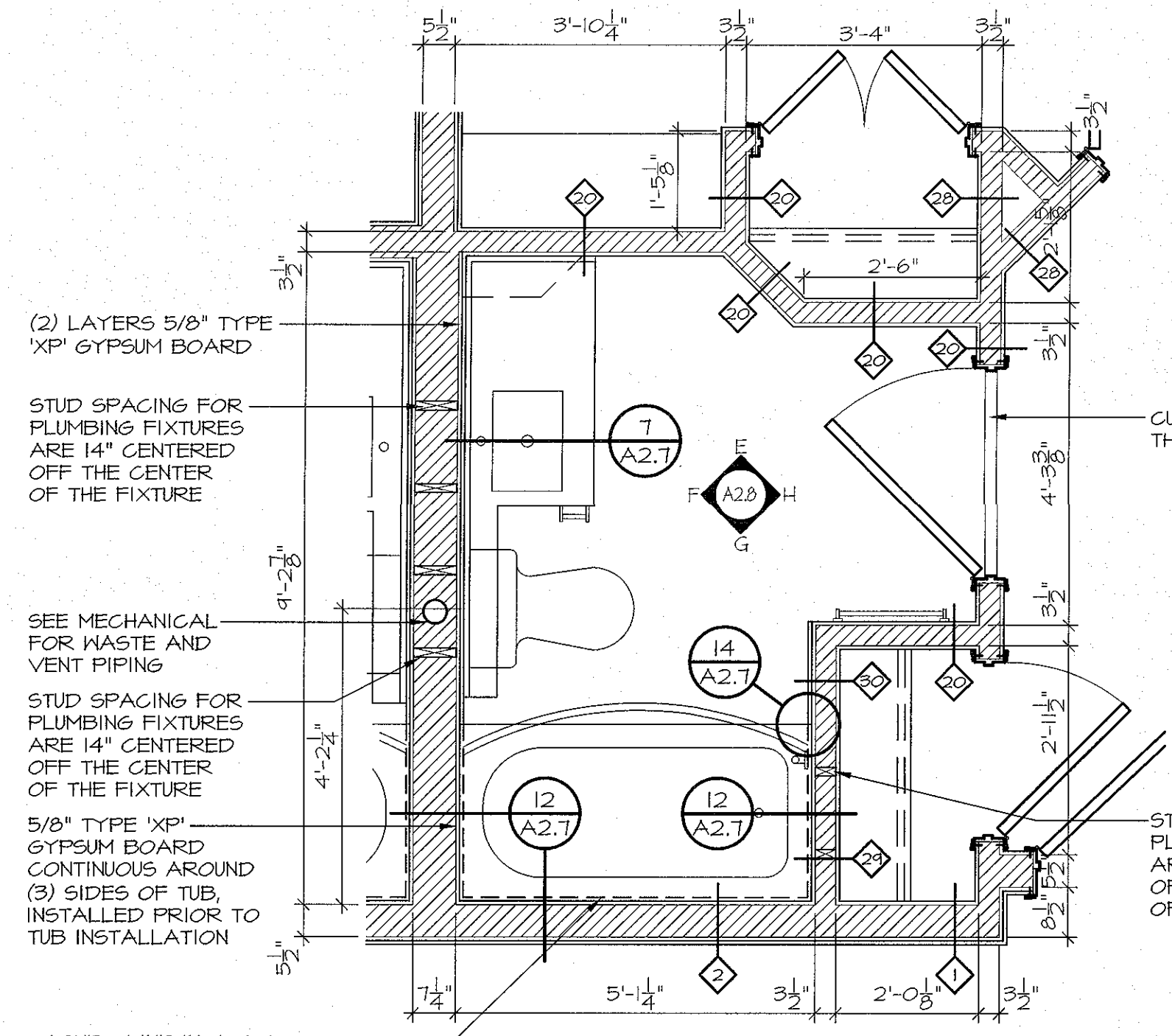
SHEET NAME:
Enlarged Room Types

PROJECT NO.
W16006
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DATE:
10.26.2016
SHEET:

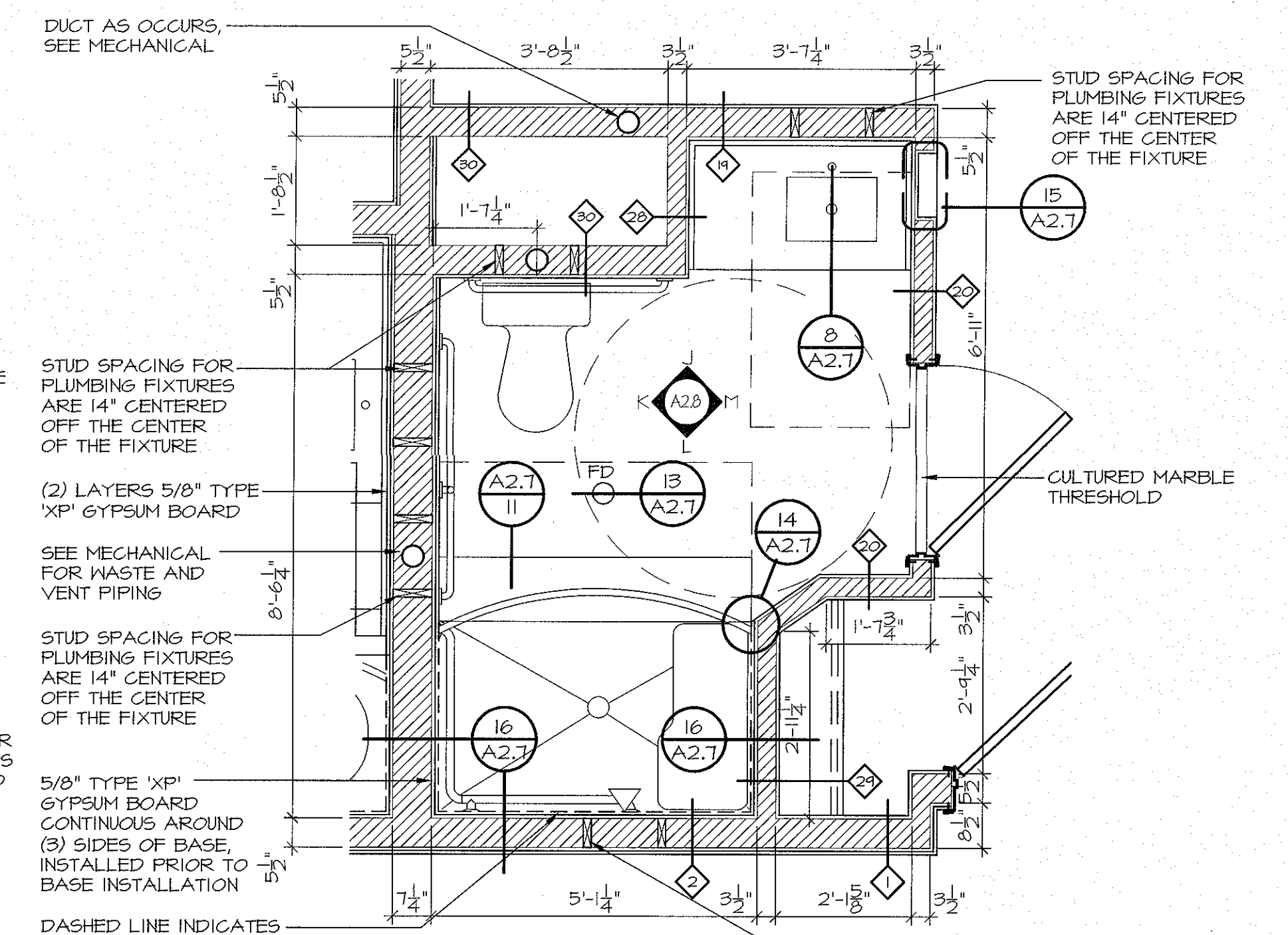
A2.6



1 BATHROOM PLAN - A, A1, A2, B, B2, B3, D
SCALE: 1/2" = 1'-0"



2 BATHROOM PLAN - C, C2
SCALE: 1/2" = 1'-0"



3 ACCESSIBLE BATHROOM PLAN - B1
SCALE: 1/2" = 1'-0"

- GENERAL NOTES:**
- PROVIDE SOLID WOOD BLOCKING OR OTHER ATTACHMENT MATERIAL BEHIND GYPSUM BOARD PARTITIONS FOR ATTACHMENT OF ALL LIGHT FIXTURES & WALL MOUNTED ACCESSORIES, ETC. INCLUDING SHOWER HEADS & TUB FAUCETS. VERIFY BACKING HEIGHTS & LOCATIONS OF ELECTRICAL CABLE AND TELEPHONE CABLES. FRAMER TO PROVIDE BLOCKING.
 - THE FOLLOWING ASSUMED BLOCKING REQUIREMENTS UNLESS GREATER LOADS ARE REQUIRED:
 - GRAB BARS - USE 350# CONCENTRATED LOAD.
 - WALL CABINETS - USE WEIGHT OF CABINET PLUS 100 LBS. PER FOOT OF SHELF.
 - COUNTERTOPS - USE WEIGHT OF COUNTER PLUS 50 LBS. PER FOOT OF COUNTER.
 - SOAP DISPENSER, MIRRORS, COAT HOOKS, TOWEL BAR, TOILET PAPER HOLDER, ETC. - USE 100 LBS.
 - SUPERINTENDENT TO VERIFY ALL ROUGH-INS AND ROUGH-OPENINGS PER CODE, PLUMBING AND ELECTRICAL LOCATIONS SHOWN SCHEMATICALLY ONLY.
 - SUPERINTENDENT TO COORDINATE EXACT LOCATIONS WITH F.F. & E. AND SUB-CONTRACTORS.

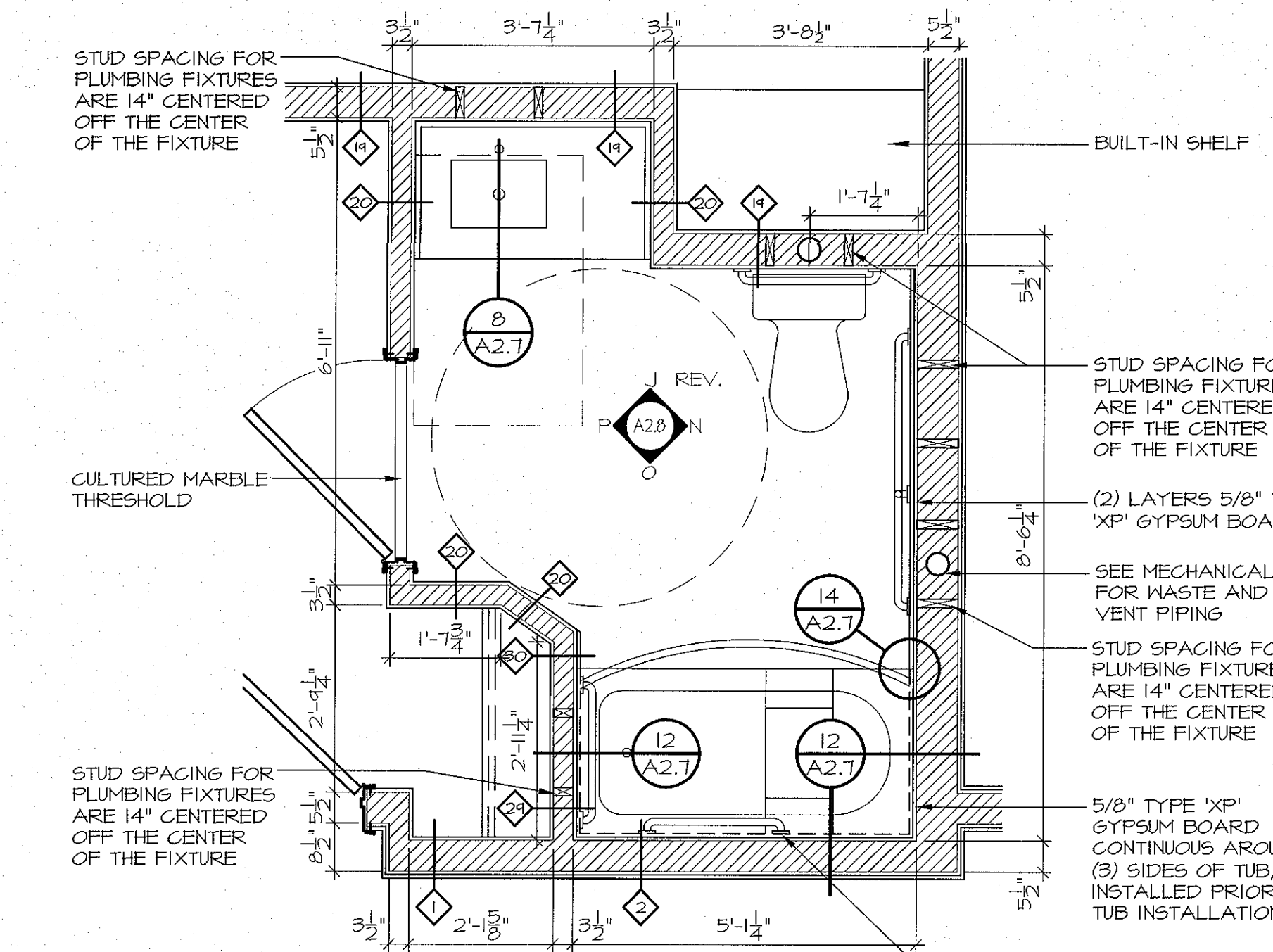
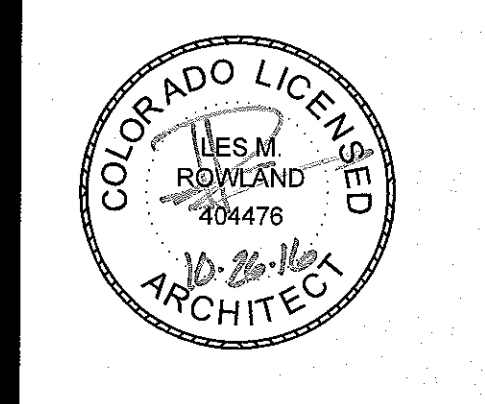
CANDLEWOOD SUITES
Pueblo, CO

PROJ. MGR.
PRO GROUP INC.
GENERAL CONTRACTORS

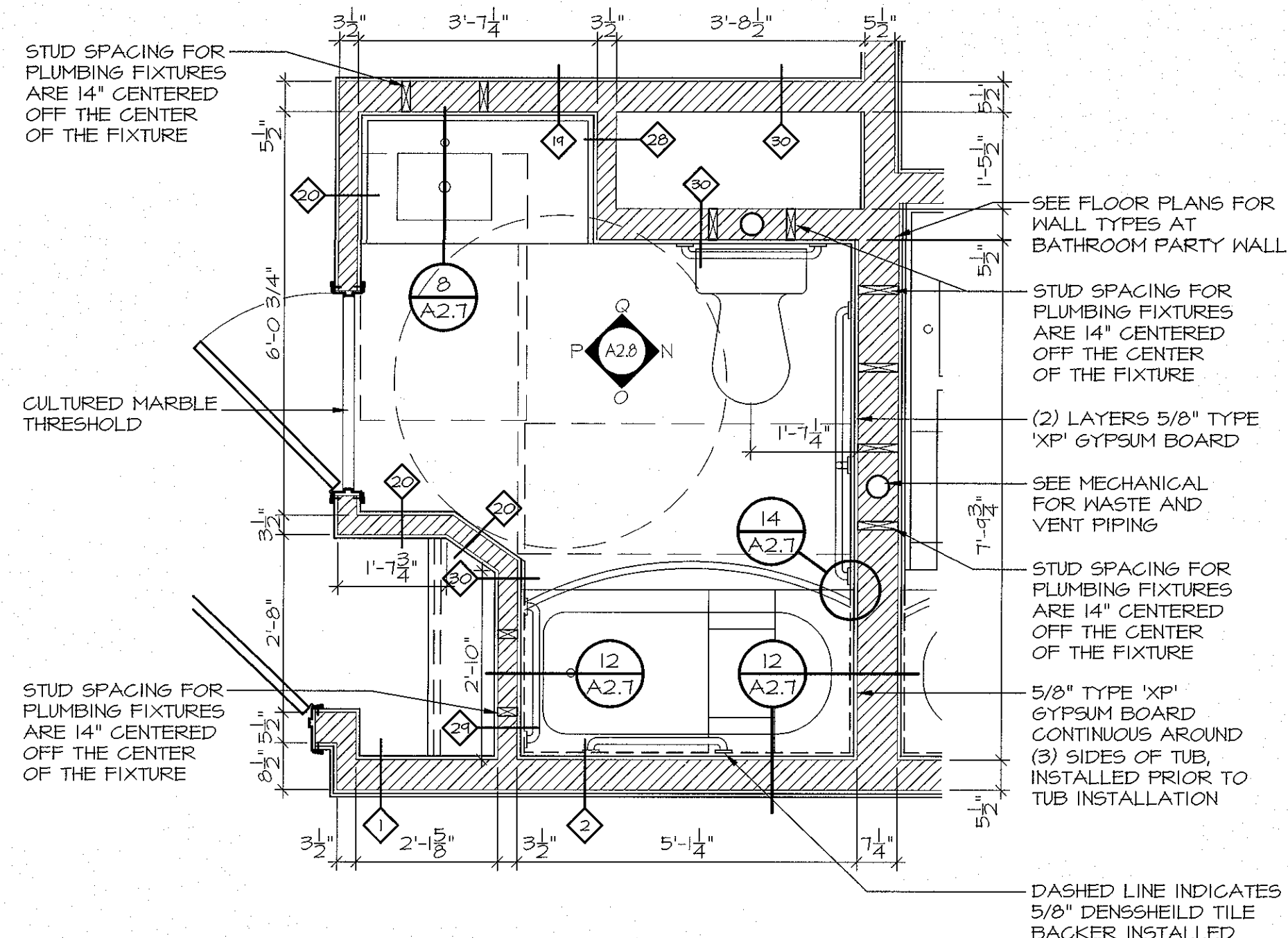
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Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

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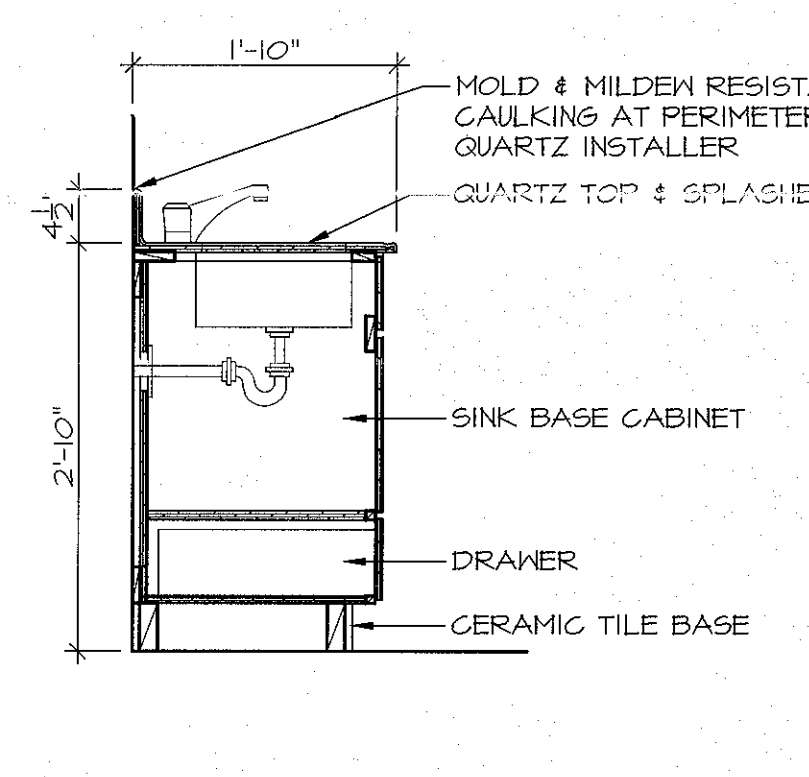
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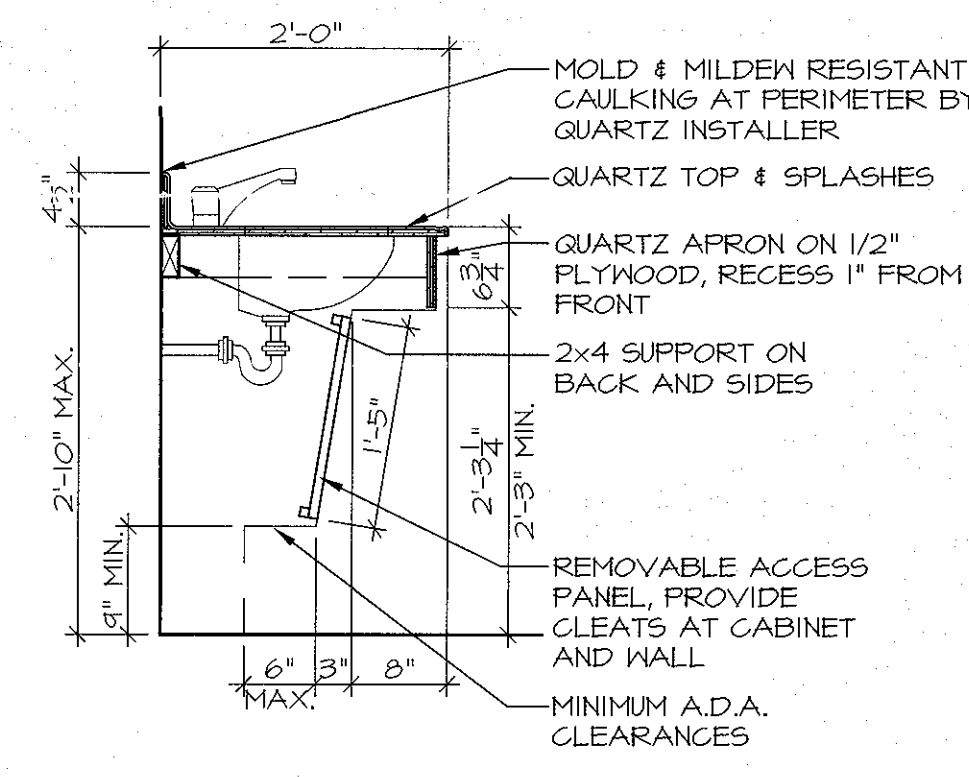
4 ACCESSIBLE BATHROOM PLAN - C1
SCALE: 1/2" = 1'-0"



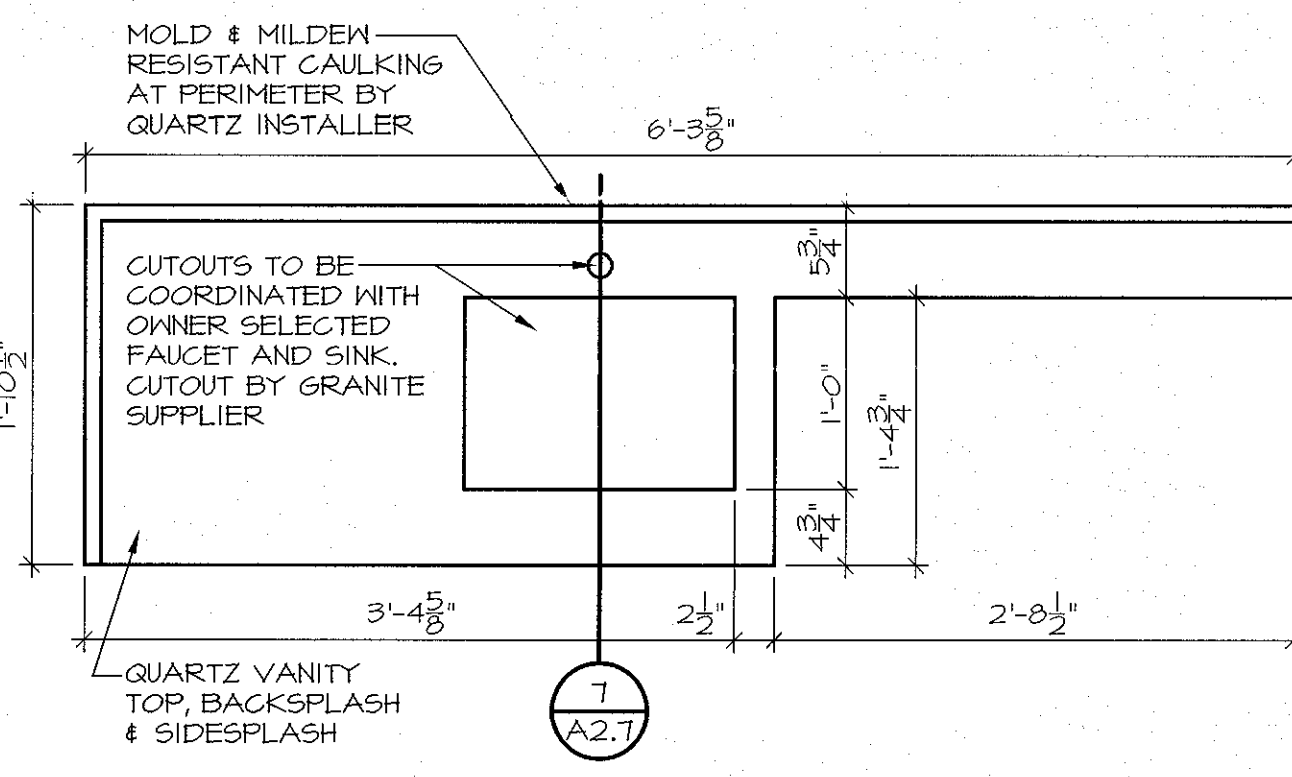
5 ACCESSIBLE BATHROOM PLAN - B4, D1
SCALE: 1/2" = 1'-0"



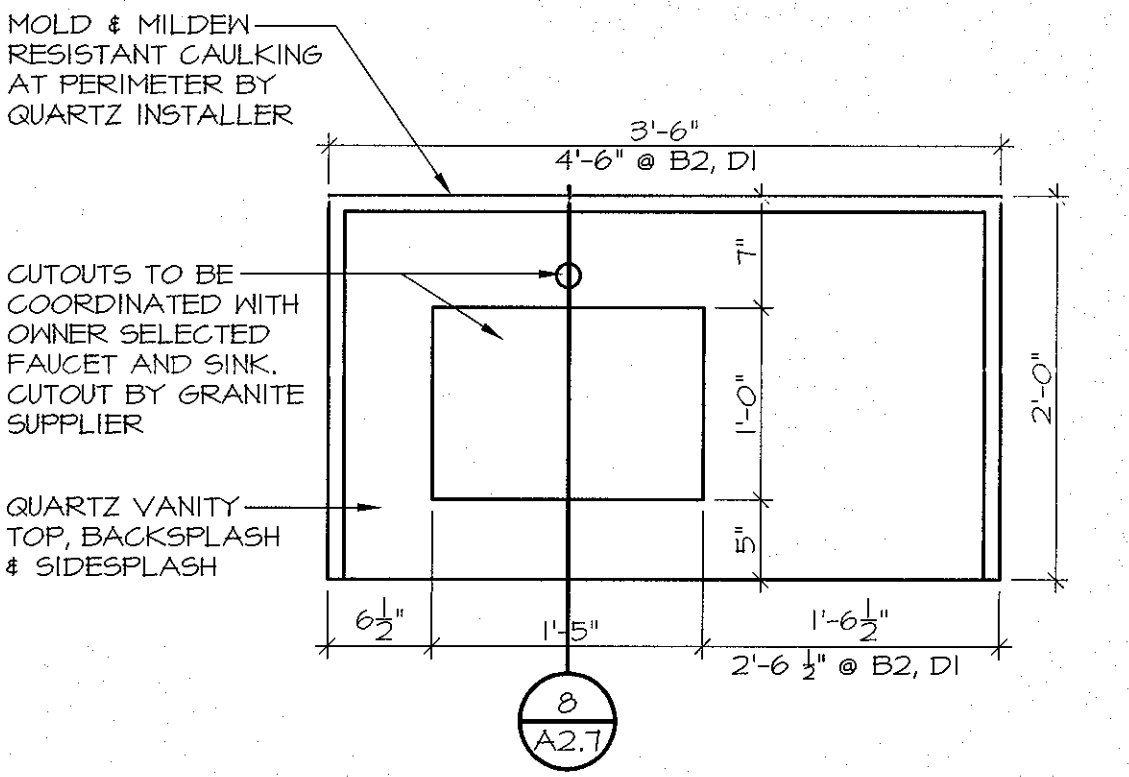
7 VANITY SECTION
SCALE: 3/4" = 1'-0"



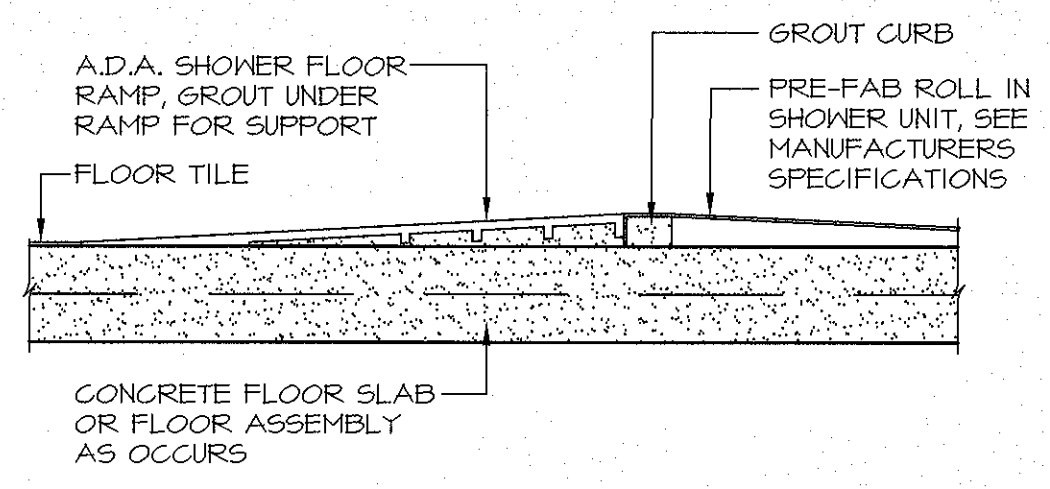
8 VANITY SECTION
SCALE: 3/4" = 1'-0"



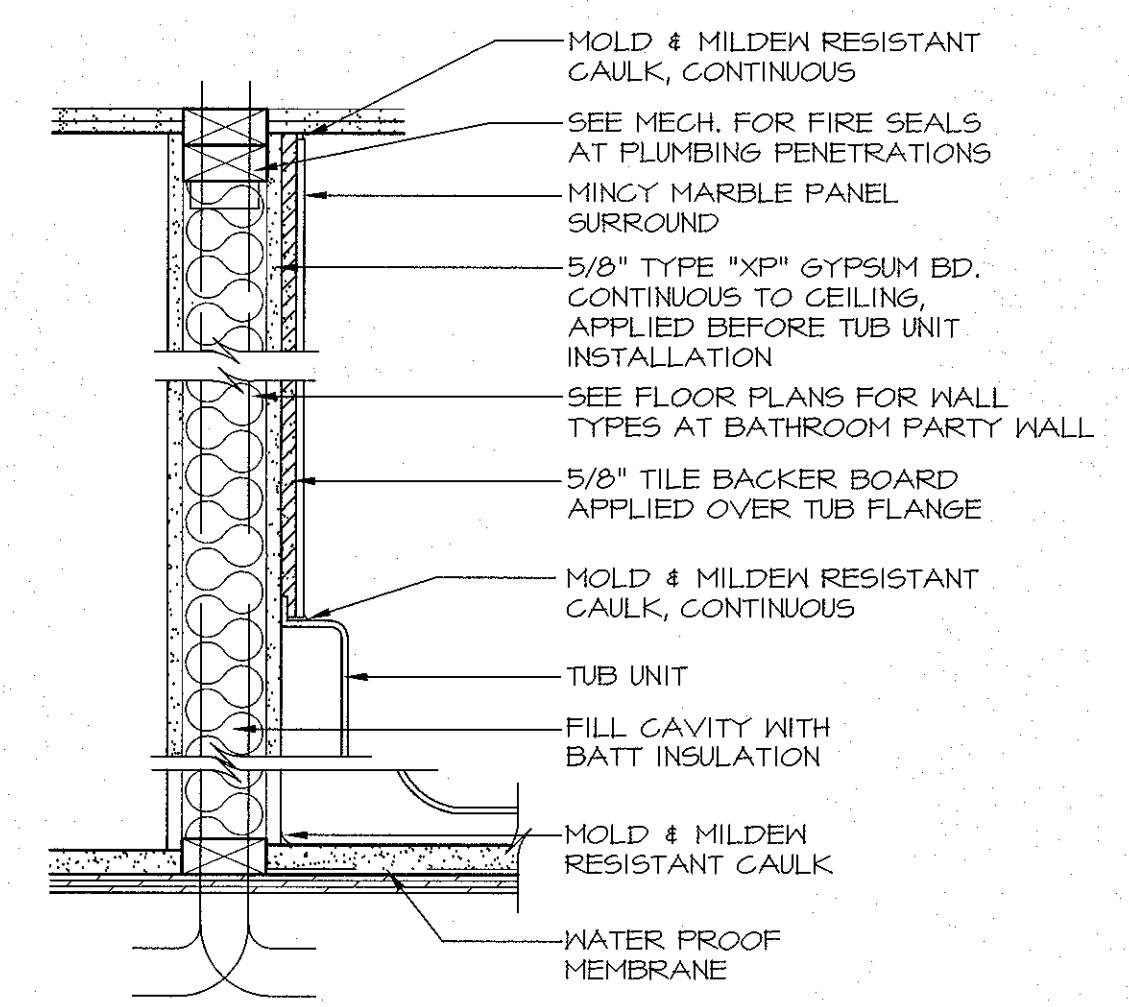
9 VANITY DETAIL
SCALE: 1" = 1'-0"



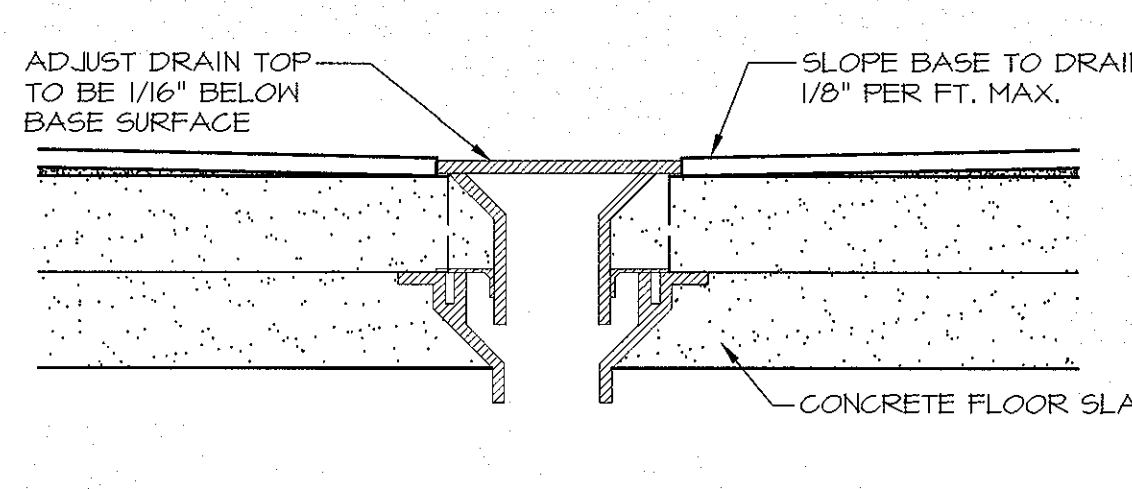
10 ACCESSIBLE VANITY DETAIL
SCALE: 1" = 1'-0"



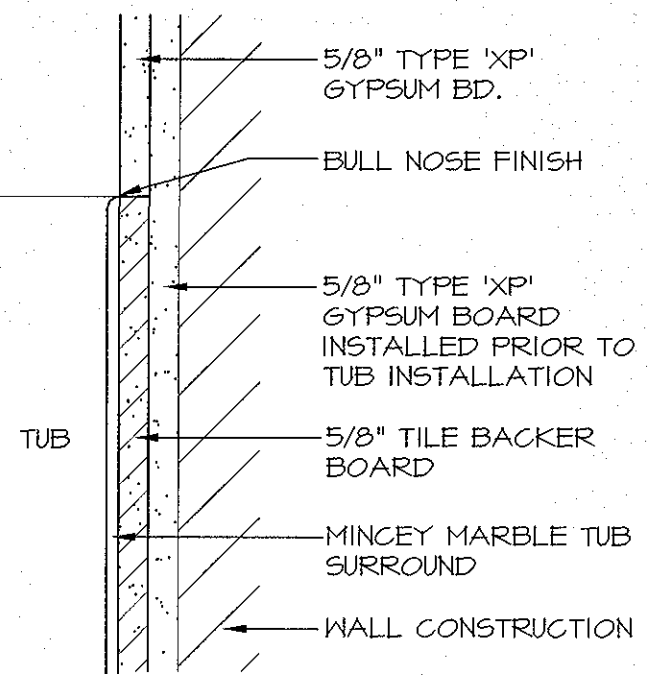
1 SHOWER RAMP DETAIL
SCALE: 1-1/2" = 1'-0"



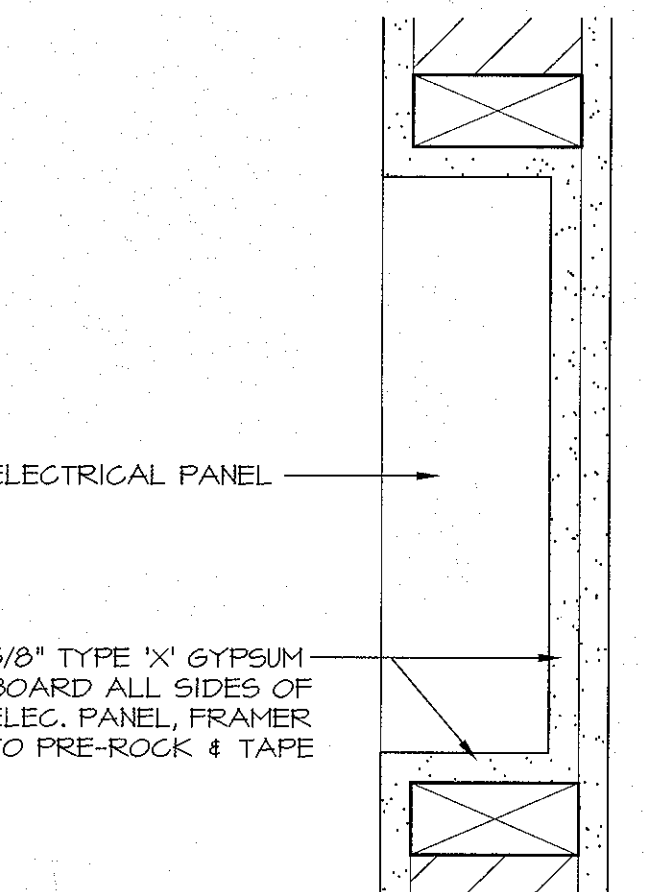
2 TUB WALL DETAIL
SCALE: 1-1/2" = 1'-0"



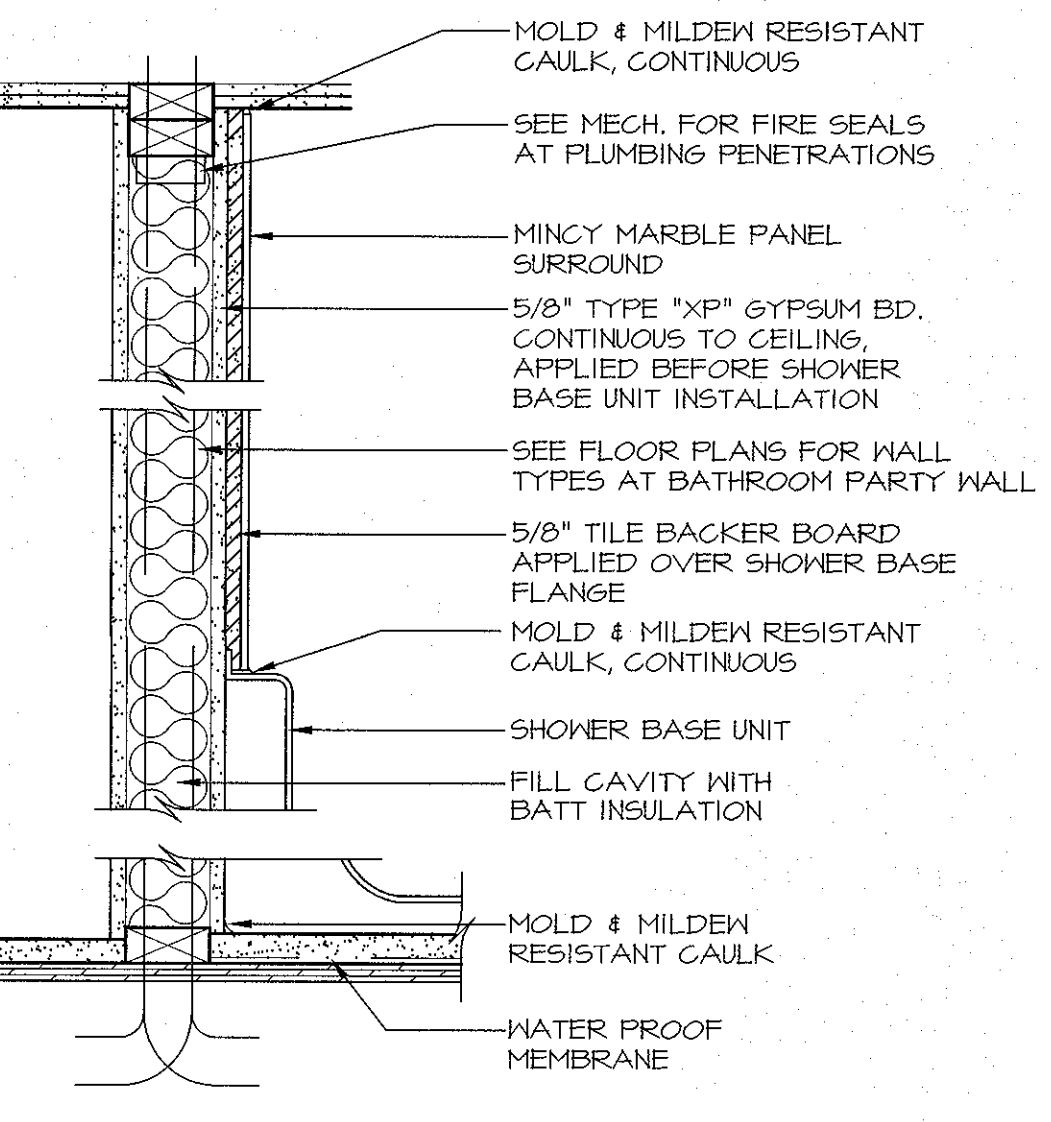
3 DRAIN DETAIL
SCALE: 3" = 1'-0"



4 TUB DETAIL
SCALE: 3" = 1'-0"



5 FRAMING DETAIL
SCALE: 3" = 1'-0"



16 SHOWER WALL DETAIL
SCALE: 1-1/2" = 1'-0"

Enlarged Guest Bathroom Plans and Details

PROJECT NO.
W16006

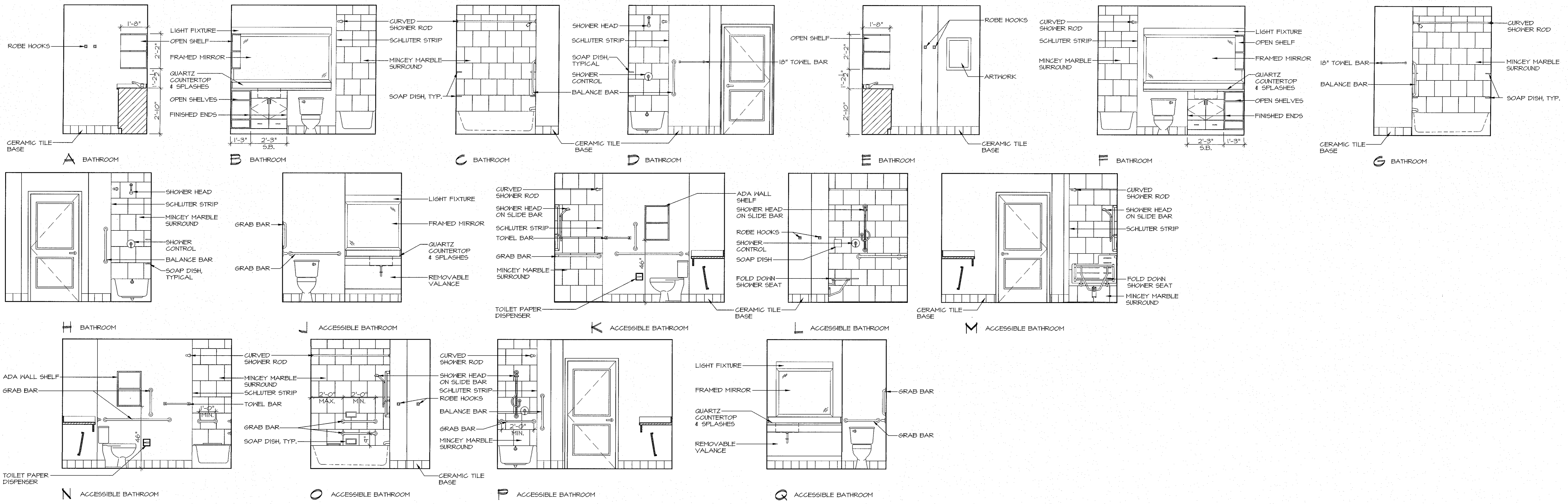
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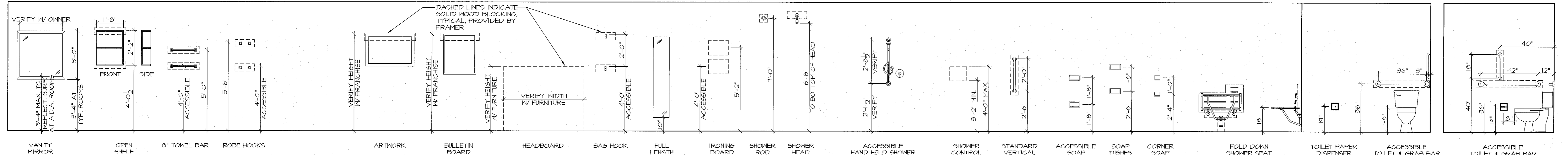
SHEET:

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BATHROOM ELEVATIONS

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

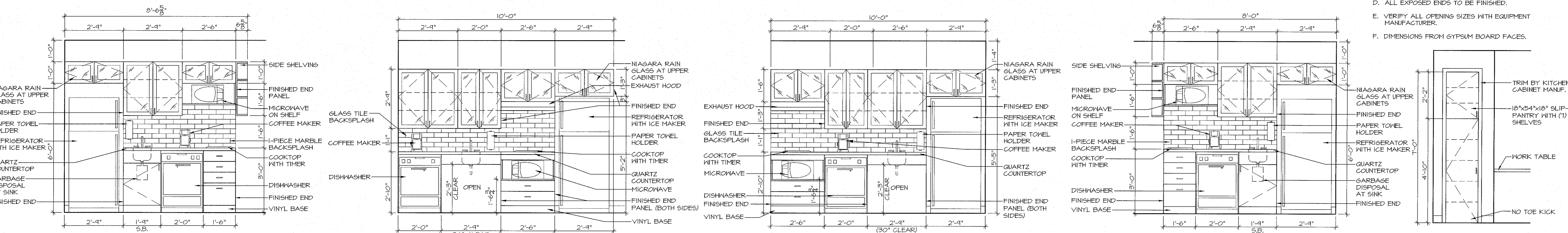


GENERAL NOTES:

- A. PROVIDE SOLID WOOD BLOCKING OR OTHER ATTACHMENT MATERIAL BEHIND GYPSUM BOARD PARTITIONS FOR ATTACHMENT OF ALL LIGHT FIXTURES & WALL MOUNTED ACCESSORIES, ETC. INCLUDING SHOWER HEADS & TUB FAUCETS. VERIFY BACKING HEIGHTS & LOCATIONS OF ELECTRICAL, CABLE AND TELEPHONE CABLES. FRAMER TO PROVIDE BLOCKING.
- B. THE FOLLOWING ASSUMED LOADS SHALL BE USED TO DETERMINE BLOCKING REQUIREMENTS UNLESS GREATER LOADS ARE REQUIRED.
 1. GRAB BARS - USE 350# CONCENTRATED LOAD
 2. WALL CABINETS - USE HEIGHT OF CABINET PLUS 100 LBS. PER FOOT OF SHELF.
 3. COUNTERTOPS - USE HEIGHT OF COUNTER PLUS 55 LBS. PER FOOT OF COUNTER.
 4. SOAP DISPENSER, MIRRORS, COAT HOOKS, TOWEL BAR, PAPER TOWEL DISPENSER, TOILET PAPER HOLDER, ETC. - USE 100 LBS.
 5. ACCESSIBLE SHOWER SEAT - SHALL SUPPORT A MAX. OF 350 LBS.
- C. SUPERINTENDENT TO VERIFY ALL ROUGH-INS AND ROUGH-OPENINGS PER CODE, PLUMBING AND ELECTRICAL LOCATIONS SHOWN SCHEMATICALLY ONLY.
- D. SUPERINTENDENT TO COORDINATE EXACT LOCATIONS WITH F.F. & E. AND SUB-CONTRACTORS.

TYPICAL MOUNTING HEIGHTS

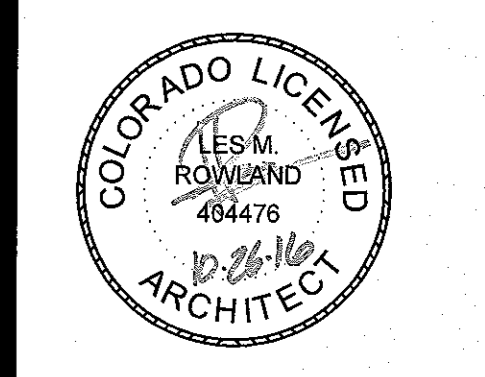
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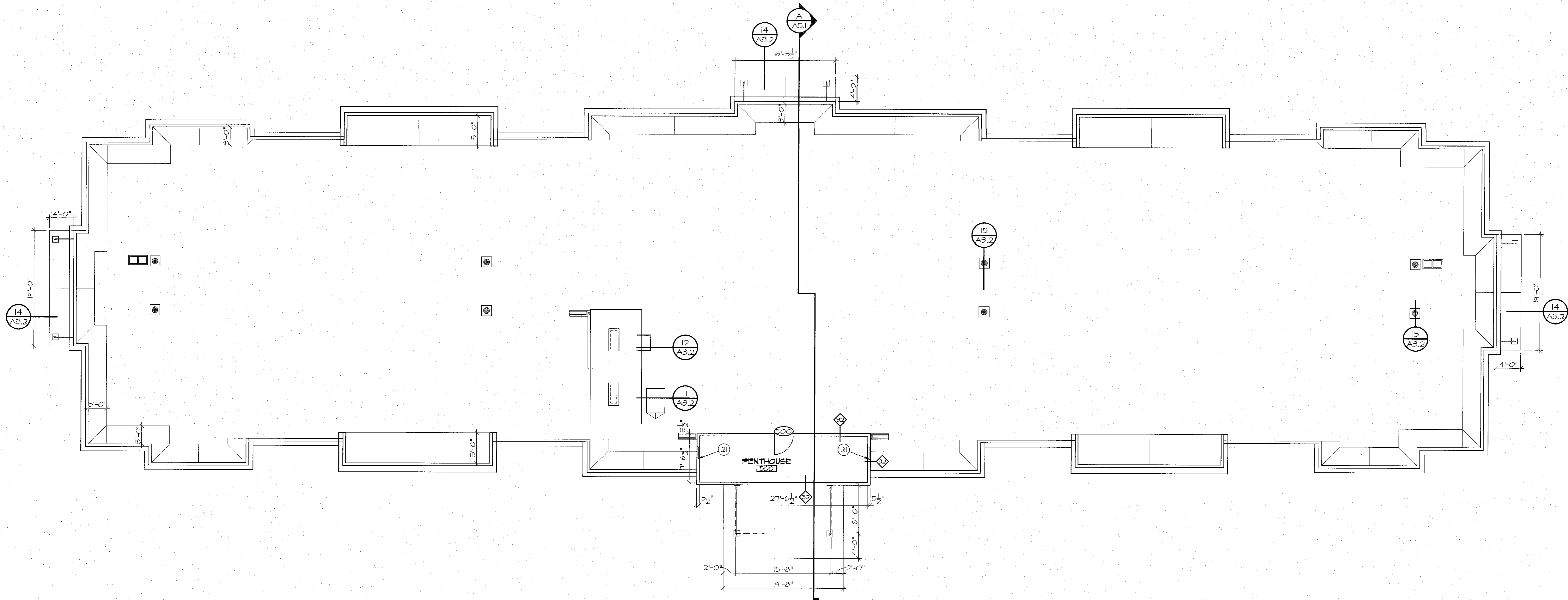


KITCHENETTE ELEVATIONS

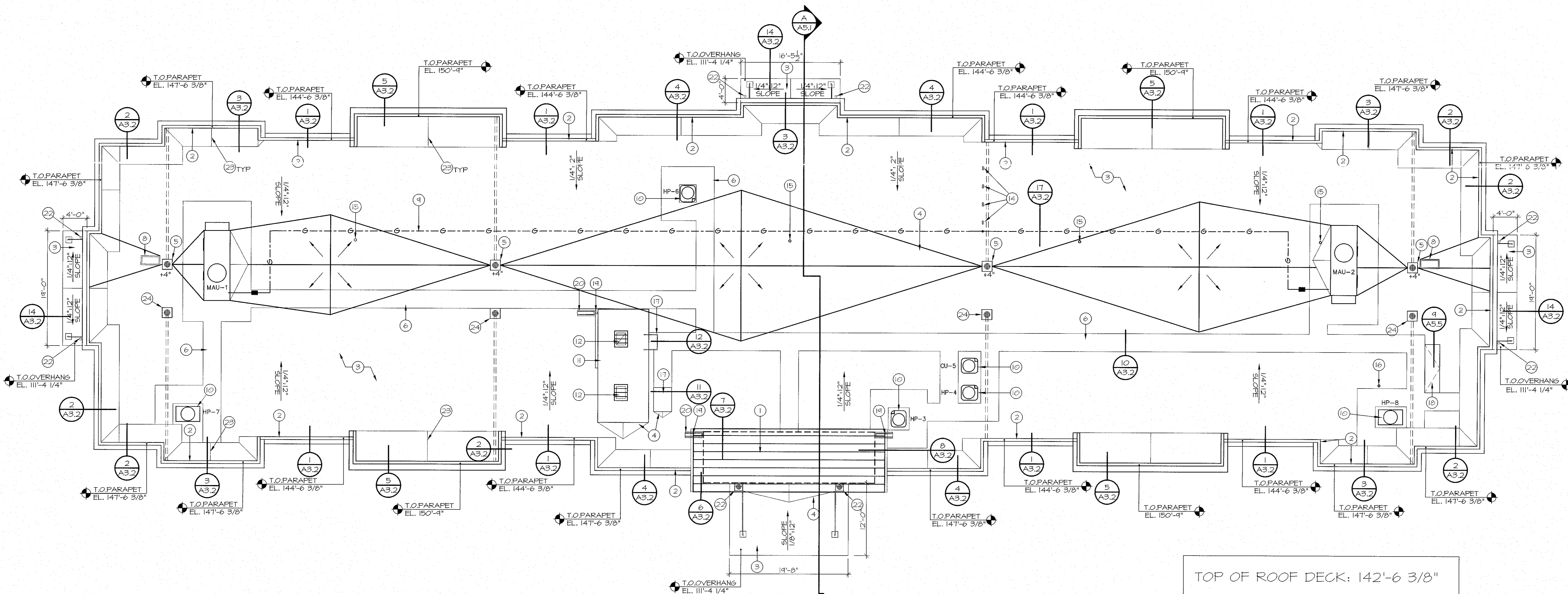
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PENTHOUSE PLAN
SCALE: 1/8" = 1'-0"



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

TOP OF ROOF DECK: 142'-6 3/8"

- GENERAL NOTES:**
- SEE FLOOR PLANS FOR BUILDING AND SECTION CUTS.
 - GENERAL CONTRACTOR TO COORDINATE ROOF PENETRATIONS WITH MECHANICAL AND STRUCTURAL. ALL PENETRATIONS SHALL FOLLOW MANUFACTURER STANDARD FLASHING DETAIL.
 - CONTRACTOR TO FOLLOW ARCHITECTURAL SHEET METAL MANUAL - TFM, ADDITION FOR ALL METAL FLASHINGS, STANDING SEAM ROOF, AND CAP FLASHINGS TO INCLUDE GUTTERS.
 - ROOFING SUBCONTRACTOR TO INSTALL T.P.O. EXPANSION JOINTS PER MANUFACTURER.
 - ROOF ASSEMBLY TYPES SEE SHEET A1.2.

- KEYED NOTES:** ①
- PRE-FINISHED METAL STANDING SEAM ROOF. PROVIDE GYPSUM BOARD CEILING AND HALLS IN CAVITY WITH DRY SPRINKLER SYSTEM. SEE ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
 - PRE-FINISHED METAL CAP.
 - ROOFING CONSTRUCTION CLASS 'B' 60 MIL RING BOND TPO ROOF MEMBRANE. 3 LAYERS CONSISTS OF 2" SECURE SHIELD POLYISOCYANURATE BOARD TAPER AT 1" STARTER AND 1 1/2" POLYISOCYANURATE BOARD AT BASE, R VALUE TO EXCEED R20.
 - TAPERED INSULATION ROOF CRICKET.
 - MAIN ROOF DRAIN.
 - 3" WIDE WALKWAY PADS. PLACE WALK PADS FROM ACCESS DOOR TO MECHANICAL EQUIPMENT ONCE SET.
 - ROOF TOP UNIT ON MECHANICAL CURB. BY MECHANICAL.
 - MECHANICAL DUCT PENETRATION OVER 2 HOUR SHAFT. ROOFING CONTRACTOR TO PROVIDE CURB & FLASHING AROUND OPENING. COORDINATE WITH MECHANICAL CONTRACTOR.
 - GAS PIPE SUPPLY, SEE MECHANICAL.
 - CONDENSING UNIT ON MECHANICAL PAD. PROVIDE ADDITIONAL LAYER OF TPO MEMBRANE UNDER PAD.
 - ELEVATOR SHAFT THROUGH ROOF.
 - ELEVATOR SHAFT VENT, SEE MECHANICAL.
 - ELEVATOR ROOF LADDER, SEE DETAILS 13 & 14/A3.2.
 - VENT STACK FOR WATER HEATER.
 - VENT STACK, VERIFY LOCATIONS & QUANTITY WITH MECHANICAL, SEE 17/A3.2.
 - FIRE DEPARTMENT STANDPIPE CONNECTION.
 - 3"x4" SATELLITE CURB MADE FROM 2"x10" FRAMING AND 3/4" TREATED PLYWOOD. COVER CURB WITH TPO ROOF MEMBRANE. ELECTRICAL TO PROVIDE (2) 2" CONDUIT, VERIFY LOCATION.
 - 30"x36" ROOF HATCH.
 - PRE-FINISHED ALUMINUM SEAMLESS GUTTER AND DOWNSPOUT SYSTEM. PROVIDED BY AND INSTALLED BY ROOFING SUB-CONTRACTOR. MATCH COLOR 'E'.
 - PRE-FABRICATED CONCRETE SPLASH BLOCK ON ADDITIONAL LAYER OF T.P.O. MEMBRANE. MEMBRANE TO BE 6" LARGER THAN SPLASH BLOCK ON ALL SIDES.
 - 24" X 24" AIR RELIEVE LOUVER IN PENTHOUSE SIDE WALL, SEE MECHANICAL.
 - 2" ROOF DRAIN ON LOWER ROOF.
 - PROVIDE PLYWOOD DRAFT STOPS AT WALL, CAN SUPPORT MAX 160 CUBIC FT.
 - OVERFLOW DRAIN 2" ABOVE ROOF DRAIN.

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Pueblo, CO

PROJ. MGR.
PRO GROUP INC.
PROFESSIONAL SERVICES

208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
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LES M. ROWLAND
484476
ARCHITECT

ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

SHEET NAME:
Penthouse and Roof Plans

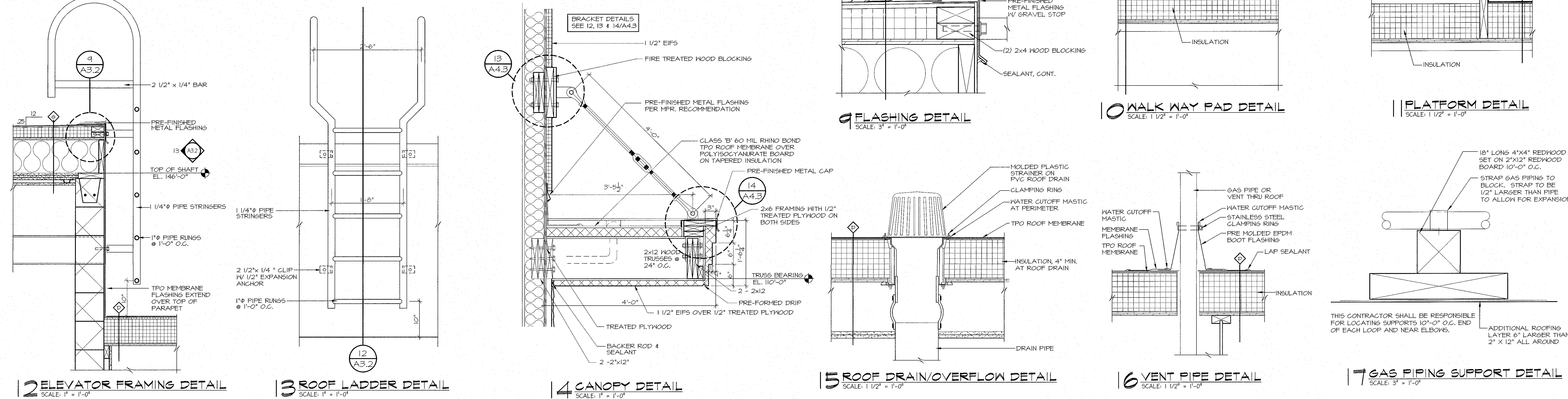
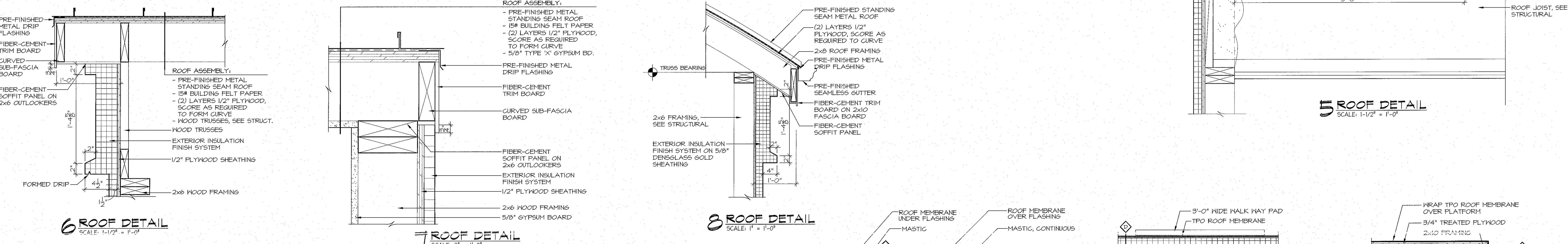
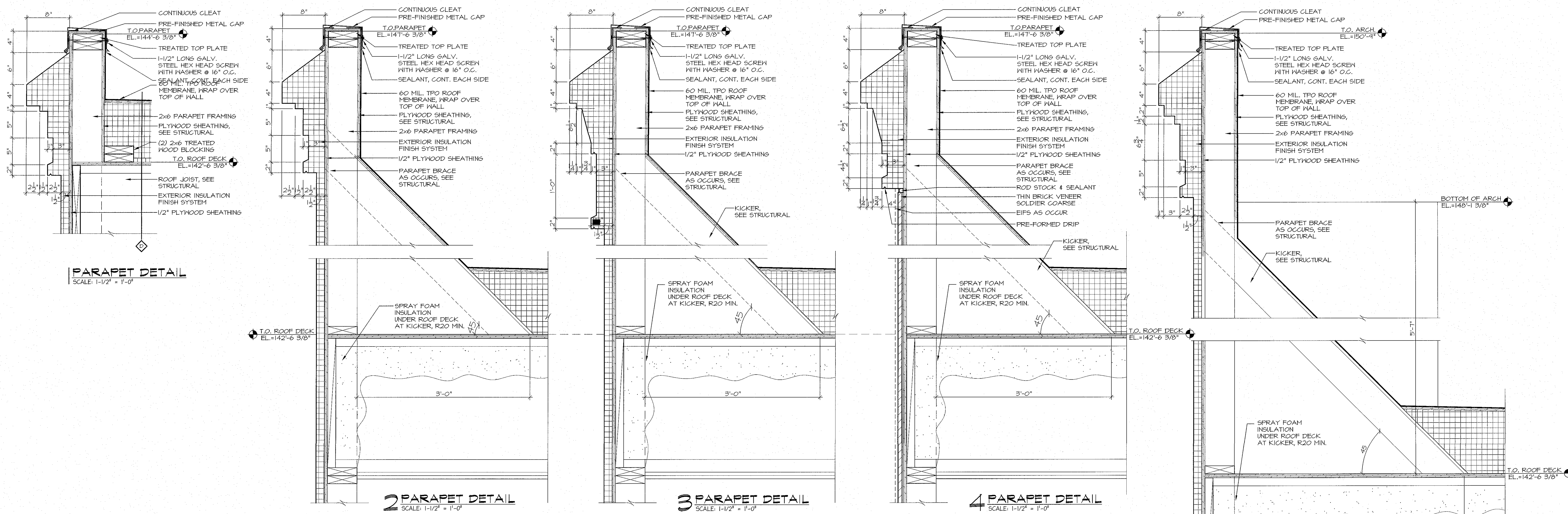
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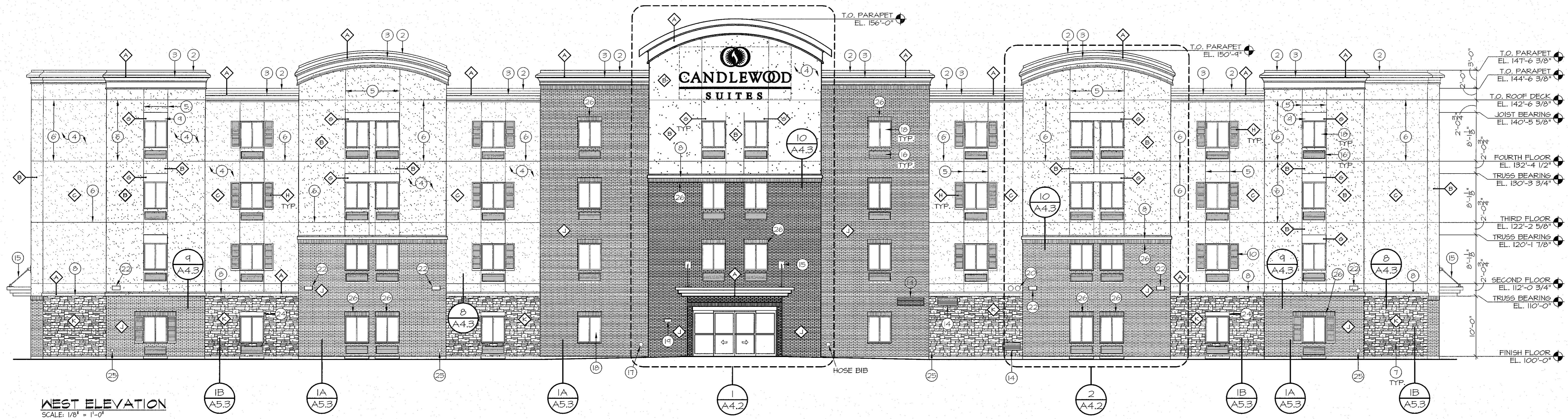
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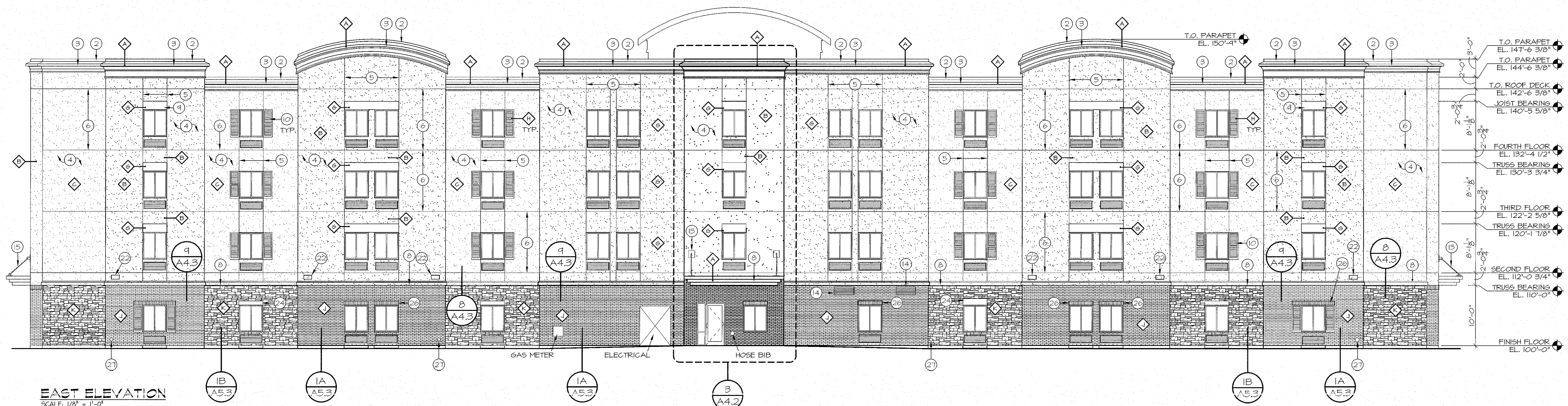
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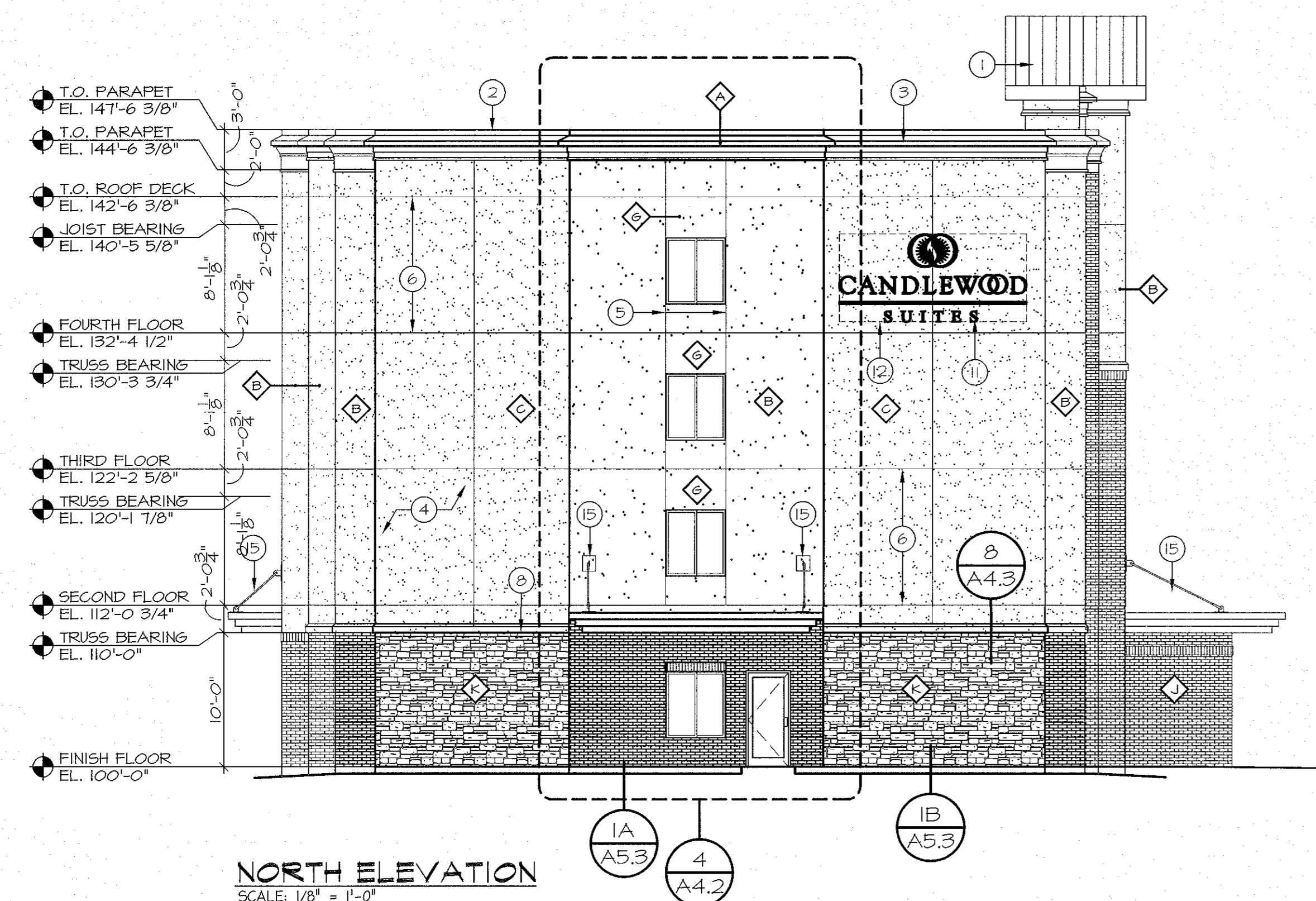




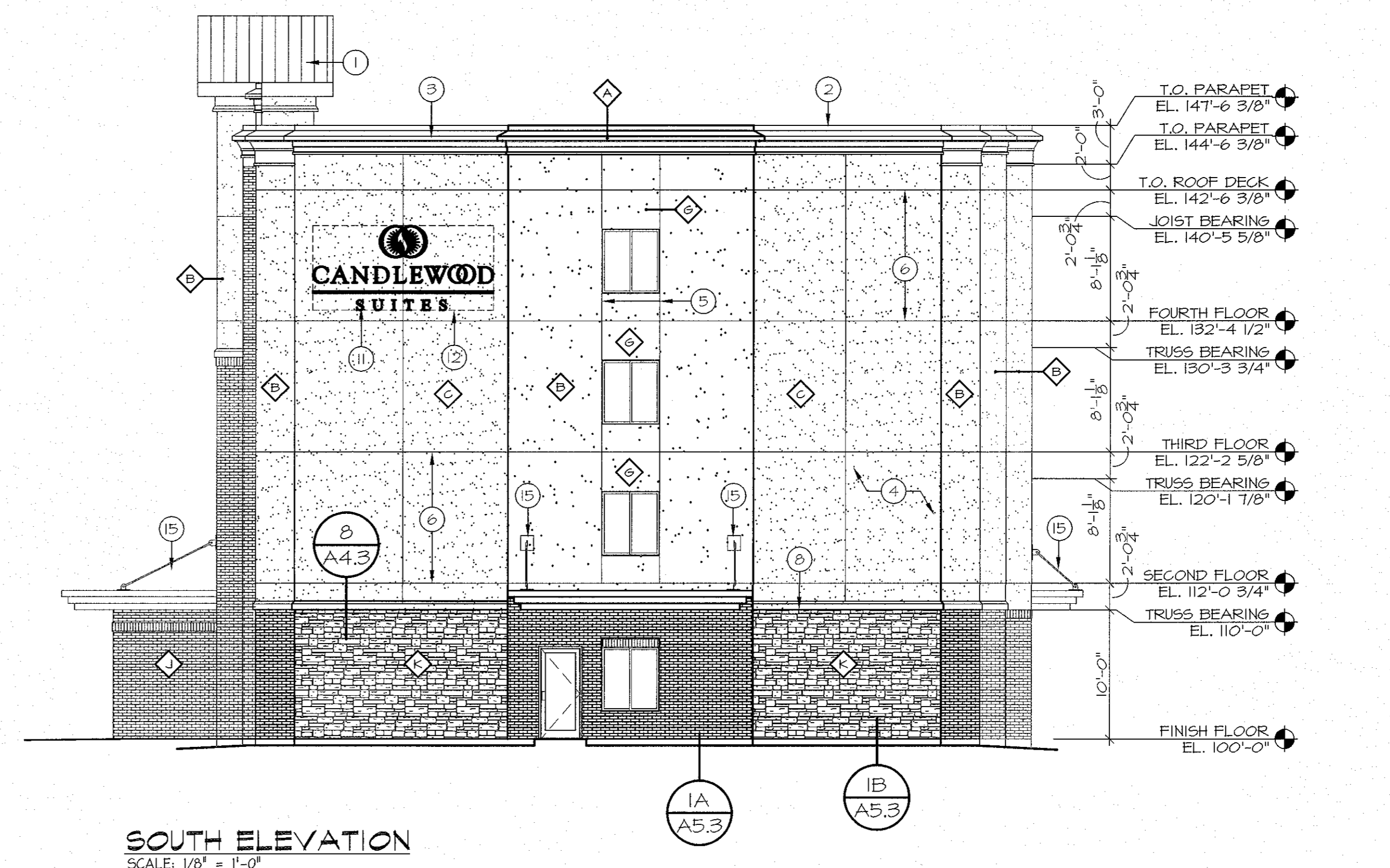
WEST ELEVATION
SCALE: 1/8" = 1'-0"



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



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



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

- COLOR LEGEND:**
- ◆ EXTERIOR INSULATION FINISH SYSTEM: COLOR: WHITE HERON, OC-57 SAND FINISH
 - ◆ EXTERIOR INSULATION FINISH SYSTEM: COLOR: WHITE SAND, OC-10 QUARZPUTZ FINISH
 - ◆ EXTERIOR INSULATION FINISH SYSTEM: COLOR: PROVIDENCE OLIVE, HC-49 QUARZPUTZ FINISH
 - ◆ EXTERIOR INSULATION FINISH SYSTEM: COLOR: LOG CABIN, BM 2163-10 QUARZPUTZ FINISH
 - ◆ EXTERIOR INSULATION FINISH SYSTEM: COLOR: VALLEY FORGE TAN, AC-35 QUARZPUTZ FINISH
 - ◆ PRE-FINISHED SHUTTERS: COLOR: BLACK
 - ◆ BRICK VENEER: CANYON STONE THIN BRICK VENEER COLOR: GRIMSON
 - ◆ STONE VENEER: CANYON STONE COLOR: OZARK MOUNTAIN
 - ◆ STANDING SEAM METAL ROOF: COLOR: BRONZE
- GENERAL NOTES:**
- A. SEE FLOOR PLANS FOR SECTION AND BUILDING CUT LOCATIONS.
 - B. SEE MECHANICAL FOR ALL PENETRATIONS.
 - C. VERIFY ALL COLORS WITH FRANCHISE REQUIREMENTS.
 - D. E.I.F.S. INSTALLER TO BE CERTIFIED BY MANUFACTURER AND INSTALL PRODUCTS PER MANUFACTURERS WARRANTY DETAILS.
 - E. ALL WALL CAPS, LOUVERS, VENTS AND DOWNSPUTS TO BE PAINTED TO MATCH ADJACENT COLOR UNLESS OTHERWISE NOTED. MUST BE AUTO BODY PAINTED.
 - F. SEAL ALL OPENINGS, PENETRATIONS, JOINTS AND SEAMS IN BUILDING ENVELOPE WITH APPROVED SEALANTS.
- KEYED NOTES:**
1. PRE-FINISHED STANDING SEAM METAL ROOF.
 2. PRE-FINISHED METAL CAP.
 3. EXTERIOR INSULATION FINISH SYSTEM FASCIA.
 4. 1/2" EXTERIOR INSULATION FINISH SYSTEM UNLESS OTHERWISE NOTED.
 5. 3/4" E.I.F.S. REVEAL, SEE DETAIL 6/A4.3.
 6. 3/4" E.I.F.S. EXPANSION JOINT, SEE DETAIL 5/A4.3.
 7. NOT USED
 8. EXTERIOR INSULATION FINISH SYSTEM BAND, SEE DETAIL 3/A4.3.
 9. E.I.F.S. KEYSTONE BLOCK, 1" THICKER THAN ADJACENT SURFACE.
 10. PRE-FINISHED METAL SHUTTER, MATCH WINDOW FRAME COLOR.
 11. SIGNAGE, VERIFY SIZE WITH OWNER AND FRANCHISE REQUIREMENTS. PROVIDE BLOCKING AND ELECTRICAL AS REQUIRED, SEE 19/A4.3.
 12. DASHED LINE INDICATES 5/8" FIRE TREATED PLYWOOD IN LIEU OF STANDARD SHEATHING.
 13. NOT USED.
 14. LOUVER, SEE MECHANICAL PLANS. PAINT BY MECHANICAL SUB CONTRACTOR, PAINT TO MATCH ADJACENT SURFACE.
 15. DECORATIVE 1" DIA. ROD AND PLATE, PAINT TO MATCH COLOR 'C'.
 16. DECORATIVE PTAC GRILLE, PAINT TO MATCH ADJACENT SURFACE.
 17. SIAMESE FIRE DEPARTMENT CONNECTION.
 18. SPANDREL GLASS.
 19. 4" HIGH BUILDING ADDRESS NUMBER WITH 1/2" MIN. STROKE WIDTH AND HAVE CONTRASTING BACKGROUND COLOR.
 20. DRYER VENTS, SEE MECHANICAL PLANS.
 21. THIN BRICK VENEER.
 22. LIGHT FIXTURE, SEE ELECTRICAL.
 23. NOT USED
 24. 8" HIGH PRECAST CONCRETE LINTEL.
 25. OVERFLOW ROOF DRAIN ESCUTCHEON SEE DETAIL 11/A6.1.
 26. THIN BRICK SOLDIER COURSE.
 27. ROOF DRAIN ESCUTCHEON SEE DETAIL 11/A6.1.
 28. EXPANSION JOINT IN BRICK.

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Pueblo, CO

PROJ. MGR.
PRO GROUP INC.
1020 16th Street, Suite 100
Pueblo, CO 81001

208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.338.8197
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COLORADO LICENSED ARCHITECT
LES M. ROWLAND
48476

ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

SHEET NAME: Exterior Elevations

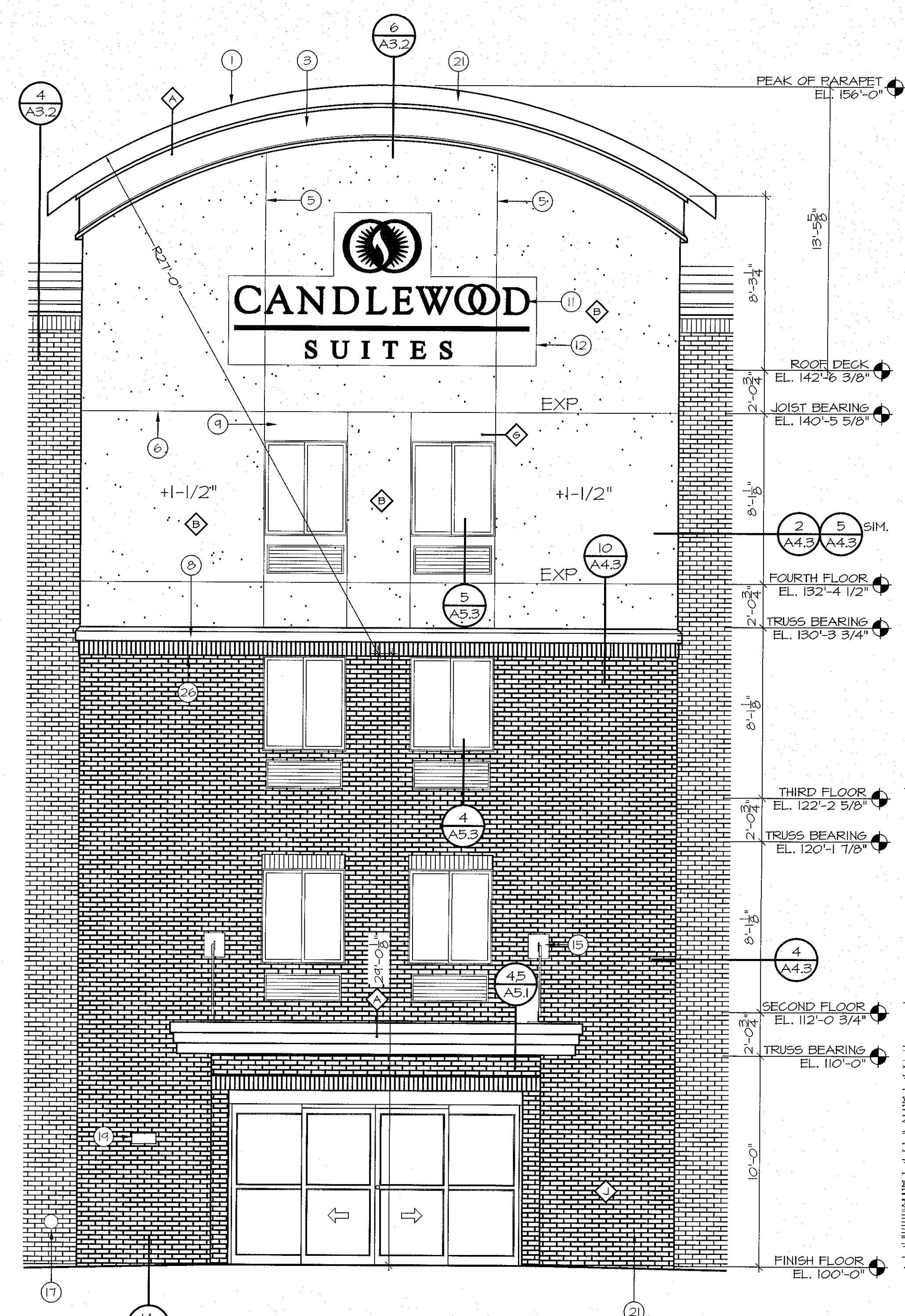
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W16006

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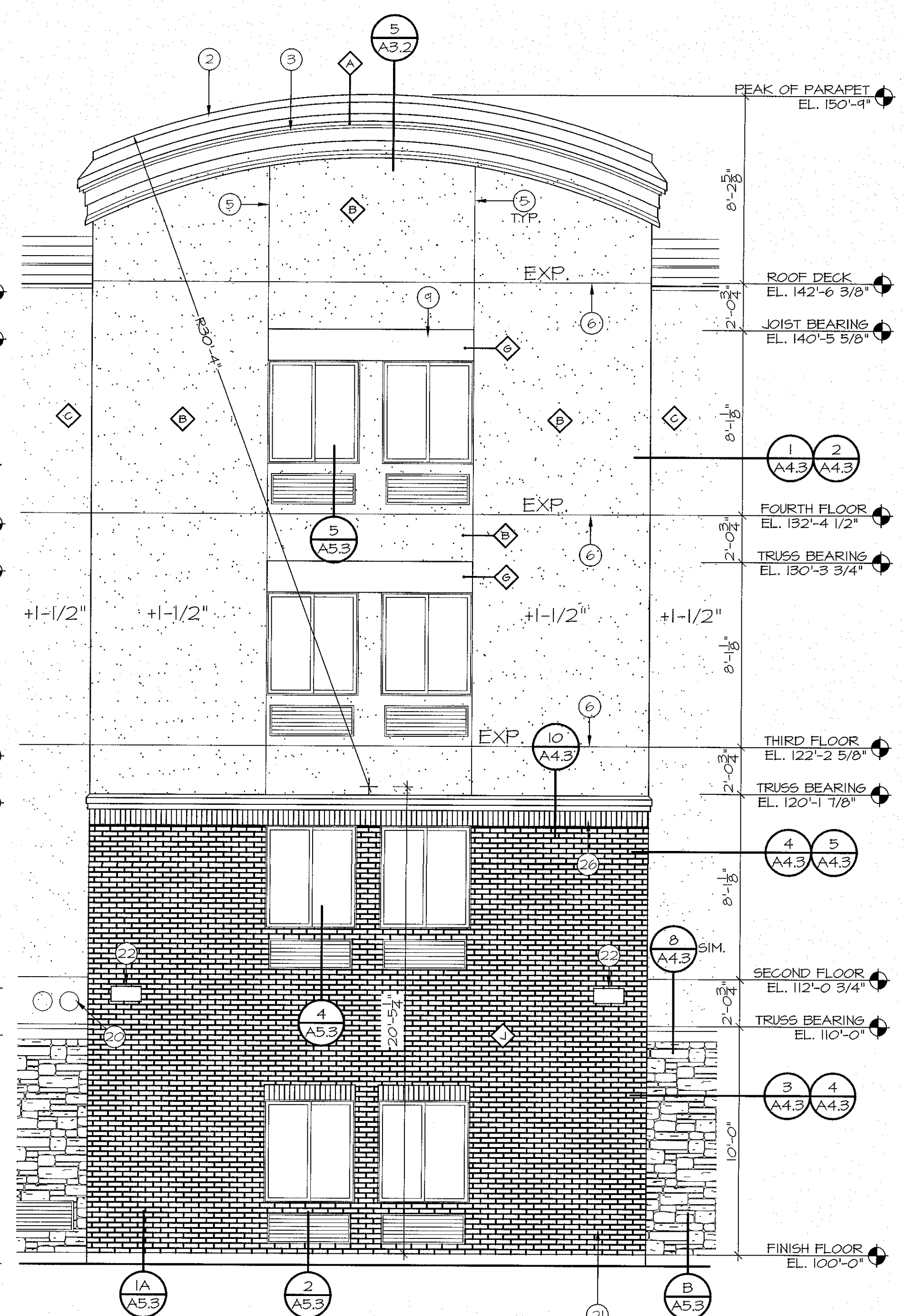
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DATE:
10.26.2016

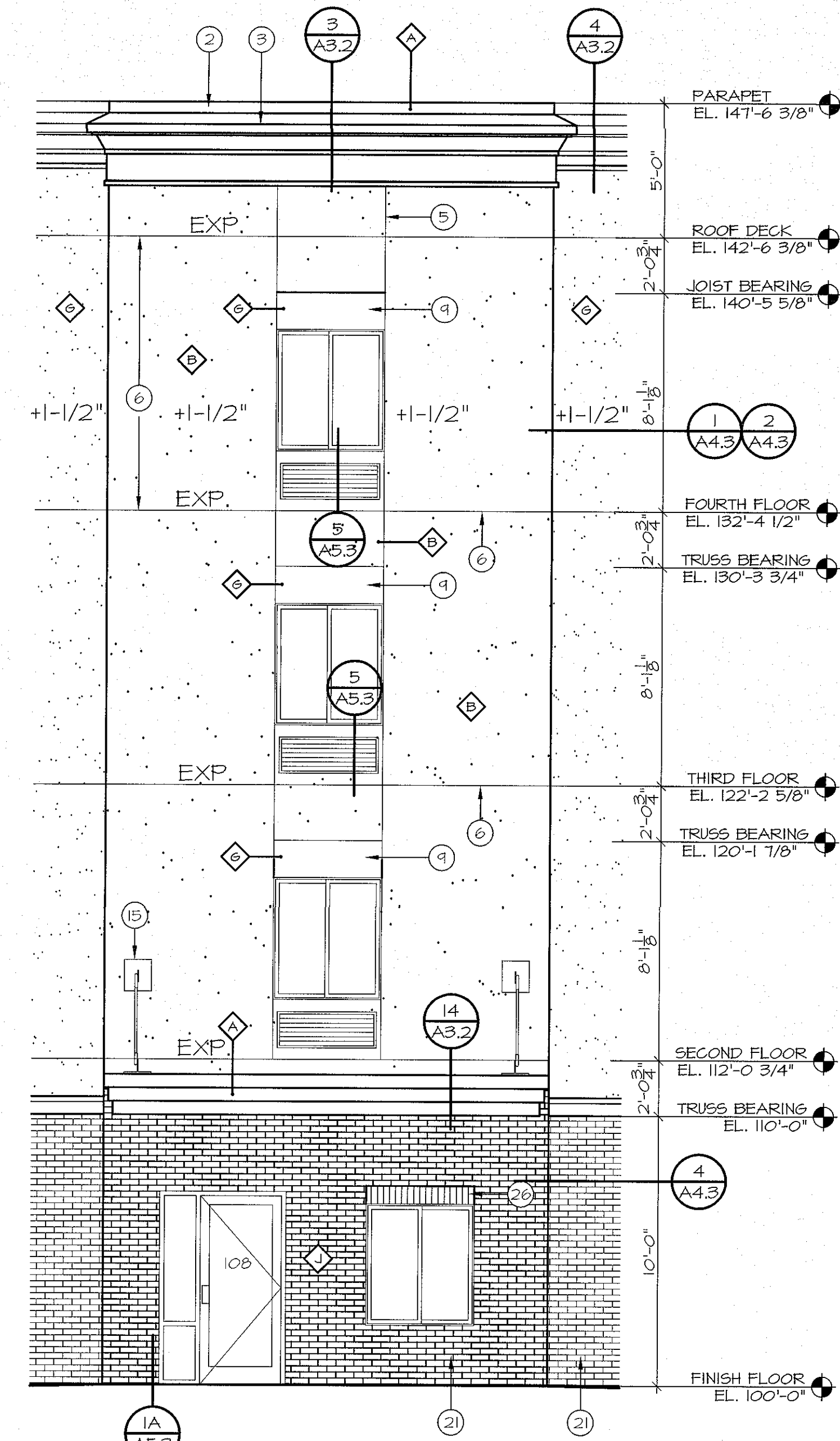
SHEET:
A4.1



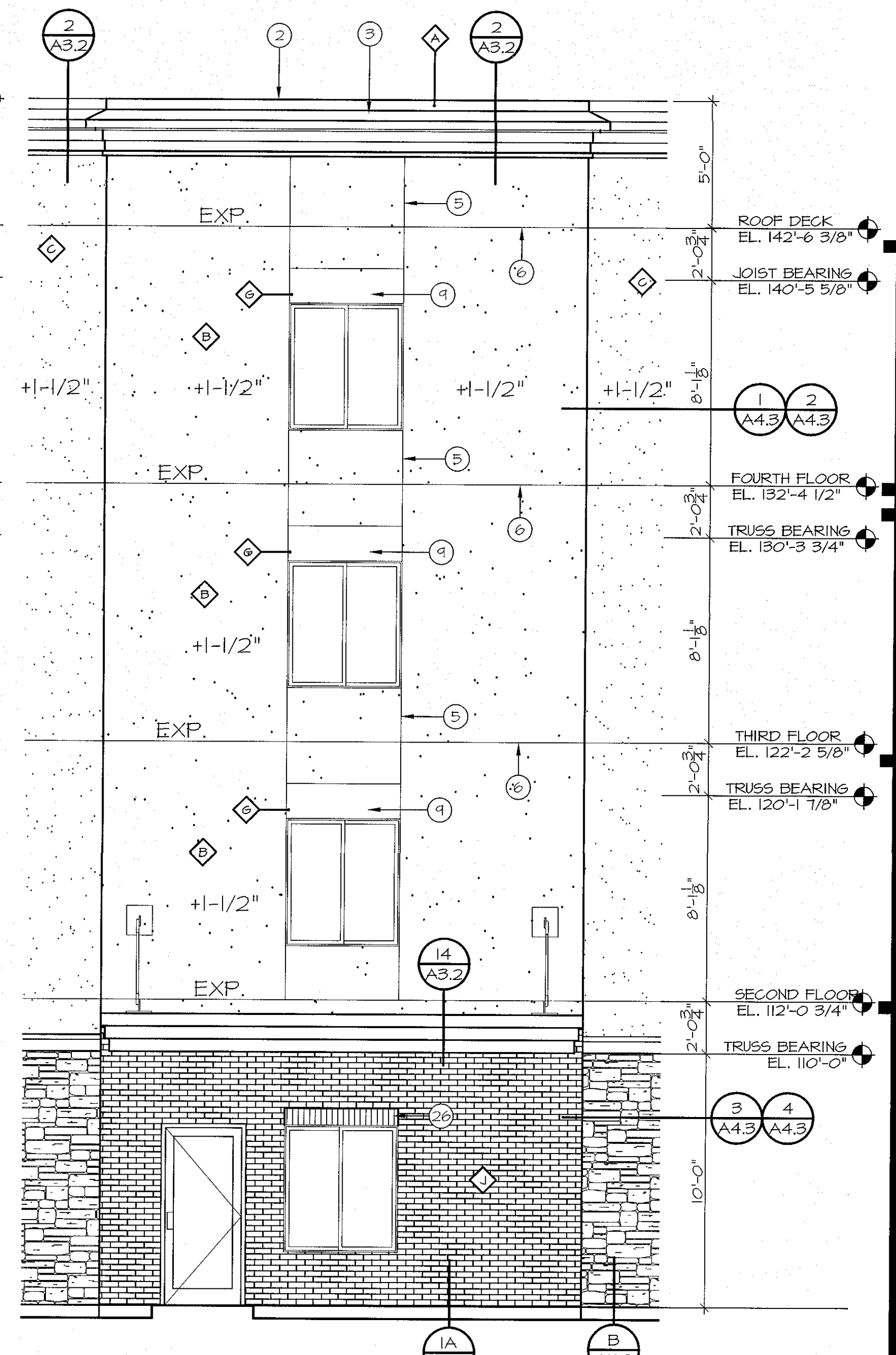
1 ENLARGED ELEVATION
SCALE: 1/4" = 1'-0"



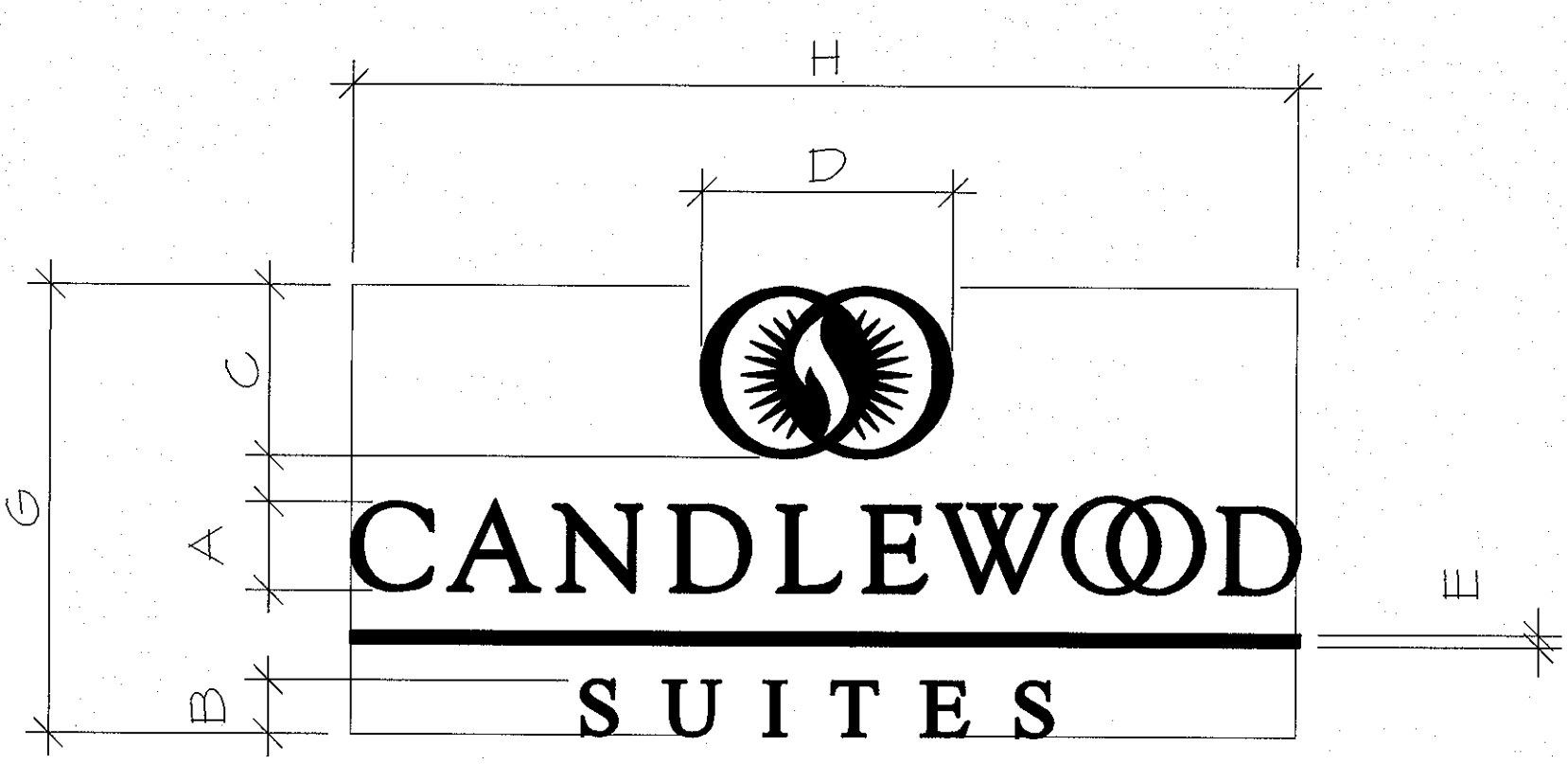
2 ENLARGED ELEVATION
SCALE: 1/4" = 1'-0"



3 ENLARGED ELEVATION
SCALE: 1/4" = 1'-0"



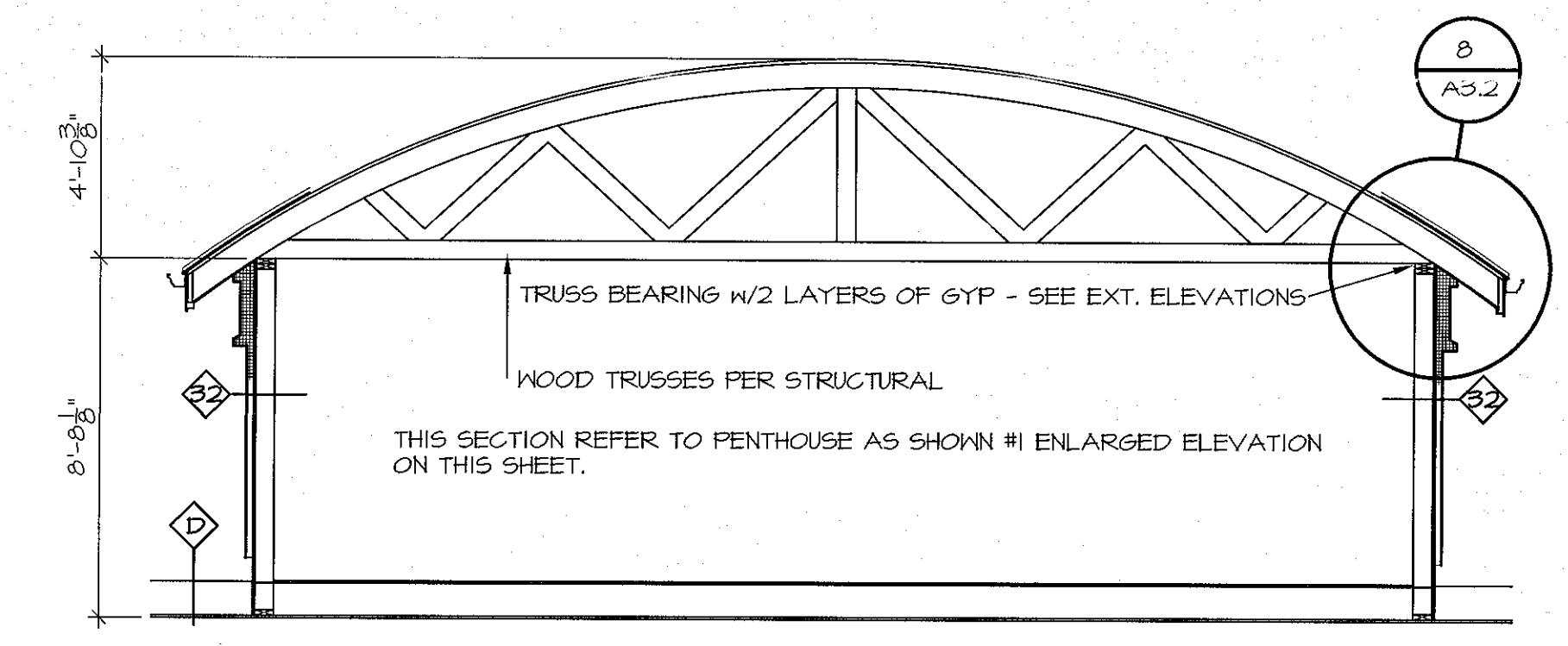
4 ENLARGED ELEVATION
SCALE: 1/4" = 1'-0"



SIGN "A"



SIGN "B"



5 PENTHOUSE SECTION
SCALE: 1/4" = 1'-0"

- GENERAL NOTES:**
- SEE FLOOR PLANS FOR SECTION AND BUILDING CUT LOCATIONS.
 - SEE MECHANICAL FOR ALL PENETRATIONS.
 - VERIFY ALL COLORS WITH FRANCHISE REQUIREMENTS.
 - E.I.F.S. INSTALLER TO BE CERTIFIED BY MANUFACTURER AND INSTALL PRODUCTS PER MANUFACTURERS WARRANTY DETAILS.
 - ALL HALL CAPS, LOUVERS, VENTS AND DOWNSPUTS TO BE PAINTED TO MATCH ADJACENT COLOR UNLESS OTHERWISE NOTED. MUST BE AUTO BODY PAINTED.
 - SEAL ALL OPENINGS, PENETRATIONS, JOINTS AND SEAMS IN BUILDING ENVELOPE WITH APPROVED SEALANTS.

- KEYED NOTES:**
- PRE-FINISHED STANDING SEAM METAL ROOF.
 - PRE-FINISHED METAL CAP.
 - EXTERIOR INSULATION FINISH SYSTEM FASCIA.
 - 1-1/2" EXTERIOR INSULATION FINISH SYSTEM UNLESS OTHERWISE NOTED.
 - 3/4" E.I.F.S. REVEAL, SEE DETAIL 5/A4.3.
 - 3/4" E.I.F.S. EXPANSION JOINT, SEE DETAIL 5/A4.3.
 - NOT USED.
 - EXTERIOR INSULATION FINISH SYSTEM BAND, SEE DETAIL 3/A4.3.
 - E.I.F.S. KEYSTONE BLOCK, 1" THICKER THAN ADJACENT SURFACE.
 - PRE-FINISHED METAL SHUTTER, MATCH WINDOW FRAME COLOR.
 - SIGNAGE, VERIFY SIZE WITH OWNER AND FRANCHISE REQUIREMENTS. PROVIDE BLOCKING AND ELECTRICAL AS REQUIRED, SEE 1/A4.3.
 - DASHED LINE INDICATES 5/8" FIRE TREATED PLYWOOD IN LIEU OF STANDARD SHEATHING.
 - NOT USED.
 - LOUVER, SEE MECHANICAL PLANS. PAINT BY MECHANICAL SUB CONTRACTOR. PAINT TO MATCH ADJACENT SURFACE.
 - DECORATIVE 1" DIA. ROD AND PLATE, PAINT TO MATCH COLOR 'C'.
 - SPANDREL GLASS.
 - 4" HIGH BUILDING ADDRESS NUMBER WITH 1/2" MIN. STROKE WIDTH AND HAVE CONTRASTING BACKGROUND COLOR.
 - DRYER VENTS, SEE MECHANICAL PLANS.
 - THIN BRICK VENEER.
 - LIGHT FIXTURE, SEE ELECTRICAL.
 - NOT USED.
 - 8" HIGH PRECAST CONCRETE LINTEL.
 - OVERFLOW ROOF DRAIN ESCUTCHEON.
 - THIN BRICK SOLDIER COURSE.
 - ROOF DRAIN ESCUTCHEON SEE DETAIL 11/A6.1.

- COLOR LEGEND:**
- ◇ EXTERIOR INSULATION FINISH SYSTEM, COLOR: WHITE HERON, OC-57 SAND FINISH
 - ◇ EXTERIOR INSULATION FINISH SYSTEM, COLOR: WHITE SAND, OC-10 QUARTZITE FINISH
 - ◇ EXTERIOR INSULATION FINISH SYSTEM, COLOR: PROVIDENCE OLIVE, 1G-48 QUARTZITE FINISH
 - ◇ EXTERIOR INSULATION FINISH SYSTEM, COLOR: LOG CABIN, BM 2163-10 QUARTZITE FINISH
 - ◇ EXTERIOR INSULATION FINISH SYSTEM, COLOR: VALLEY FORGE TAN, AC-35 QUARTZITE FINISH
 - ◇ PRE-FINISHED SHUTTERS COLOR: BLACK
 - ◇ BRICK VENEER, CANYON STONE THIN BRICK VENEER COLOR: CRIMSON
 - ◇ STONE VENEER, CANYON STONE COLOR: OZARK MOUNTAIN
 - ◇ STANDING SEAM METAL ROOF, COLOR: BRONZE

SIGN	MODEL NUMBER	DIMENSIONS								BOXED AREA
		LETTER "C" HEIGHT	LETTER "S" HEIGHT	LOGO HEIGHT	LOGO LENGTH	UNDERScore HEIGHT	UNDERScore LENGTH	OVERALL HEIGHT	OVERALL LENGTH	
		A	B	C	D	E	F	G	H	
SIGN "A"	CS-18-CL-4	18"	9 5/8"	2'-2 11/16"	3'-3 9/16"	2 3/16"	13'-9 3/4"	6'-11 3/16"	13'-11 1/4"	96.65 SQ. FT.
SIGN "B"	CS-24-CL-4	24"	1'-0 13/16"	2'-8"	3'-11 7/16"	2 15/16"	18'-4 15/16"	8'-8 1/16"	18'-7"	161.21 SQ. FT.

BUILDING SIGNAGE DETAILS
SCALE: 1/8" = 1'-0"

SHEET NAME: Exterior Elevations

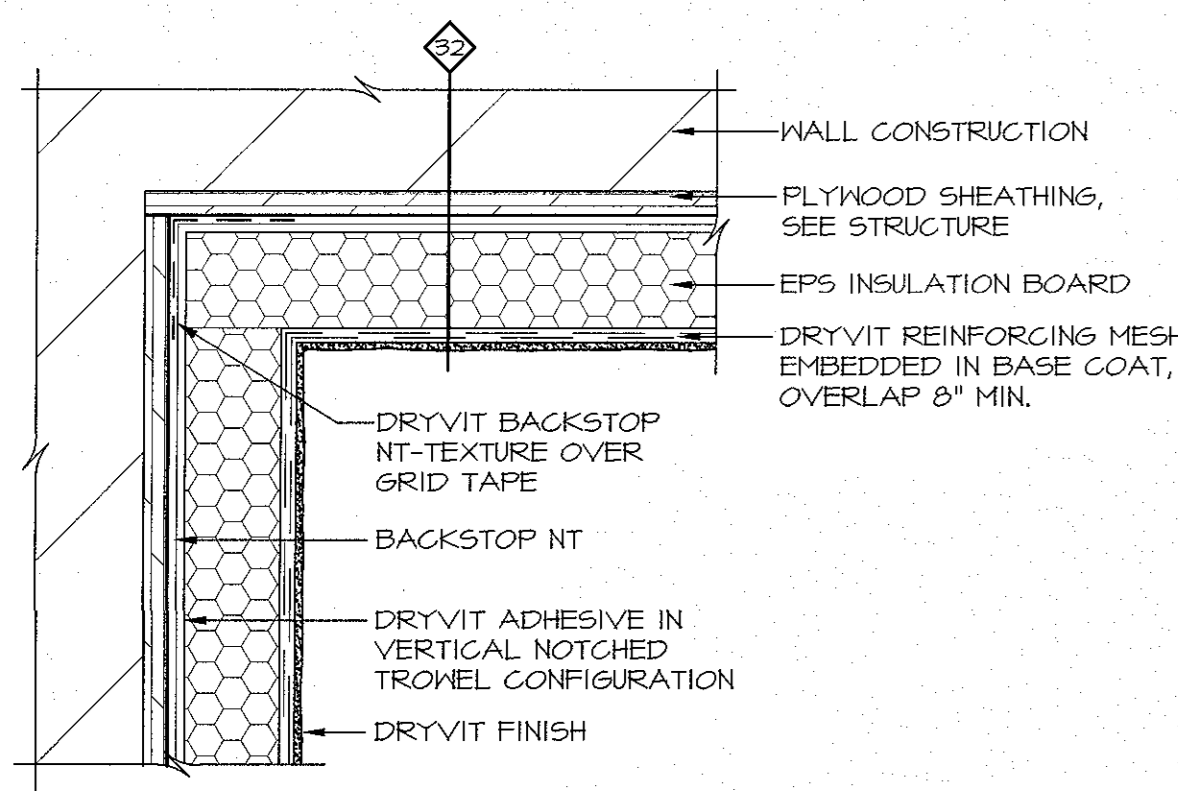
PROJECT NO.
W16006

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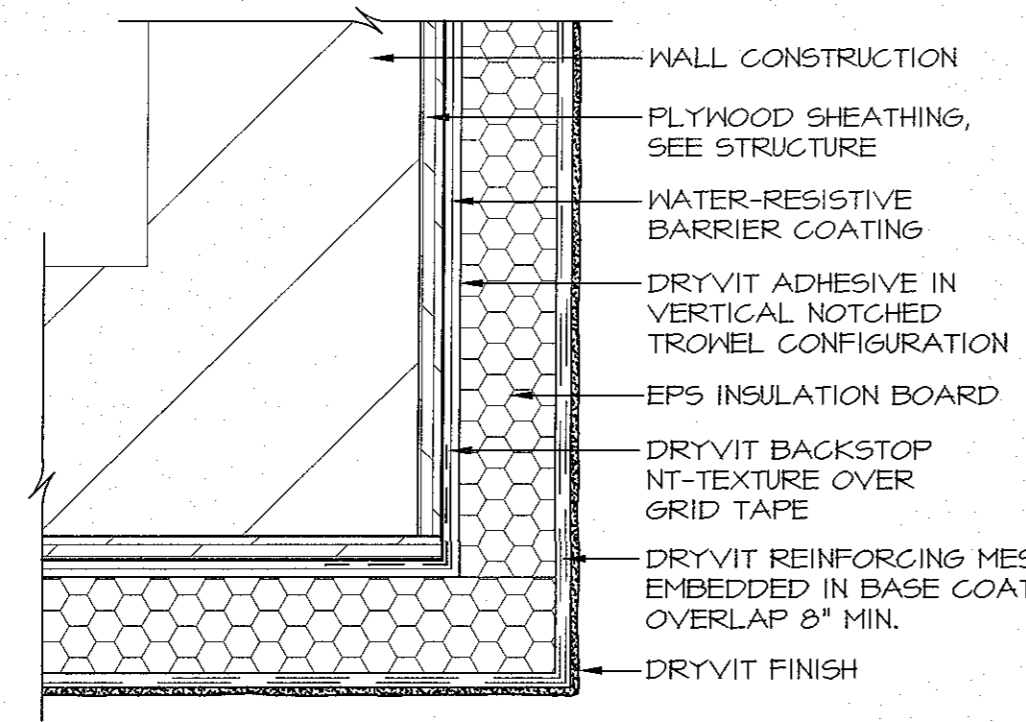
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DATE:
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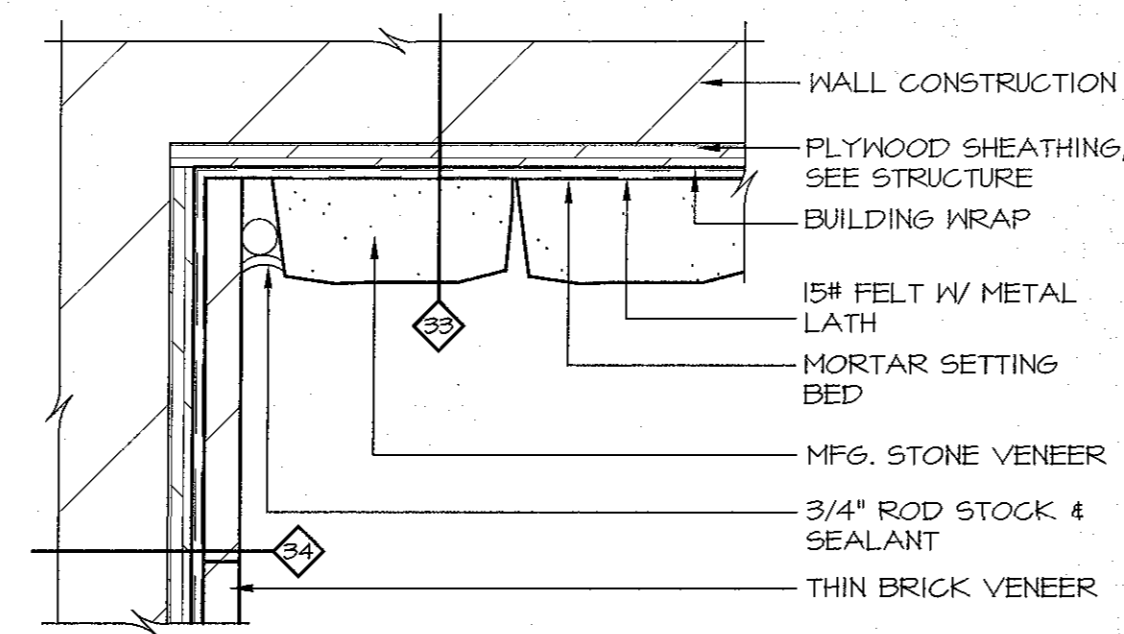
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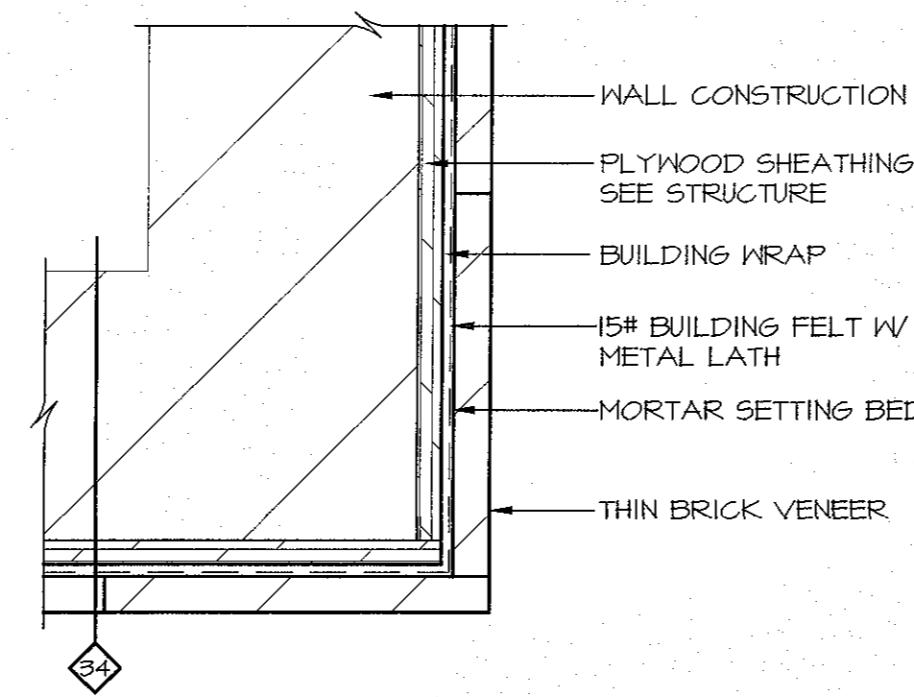
1 E.I.F.S. INSIDE CORNER DETAIL
SCALE: 3" = 1'-0"



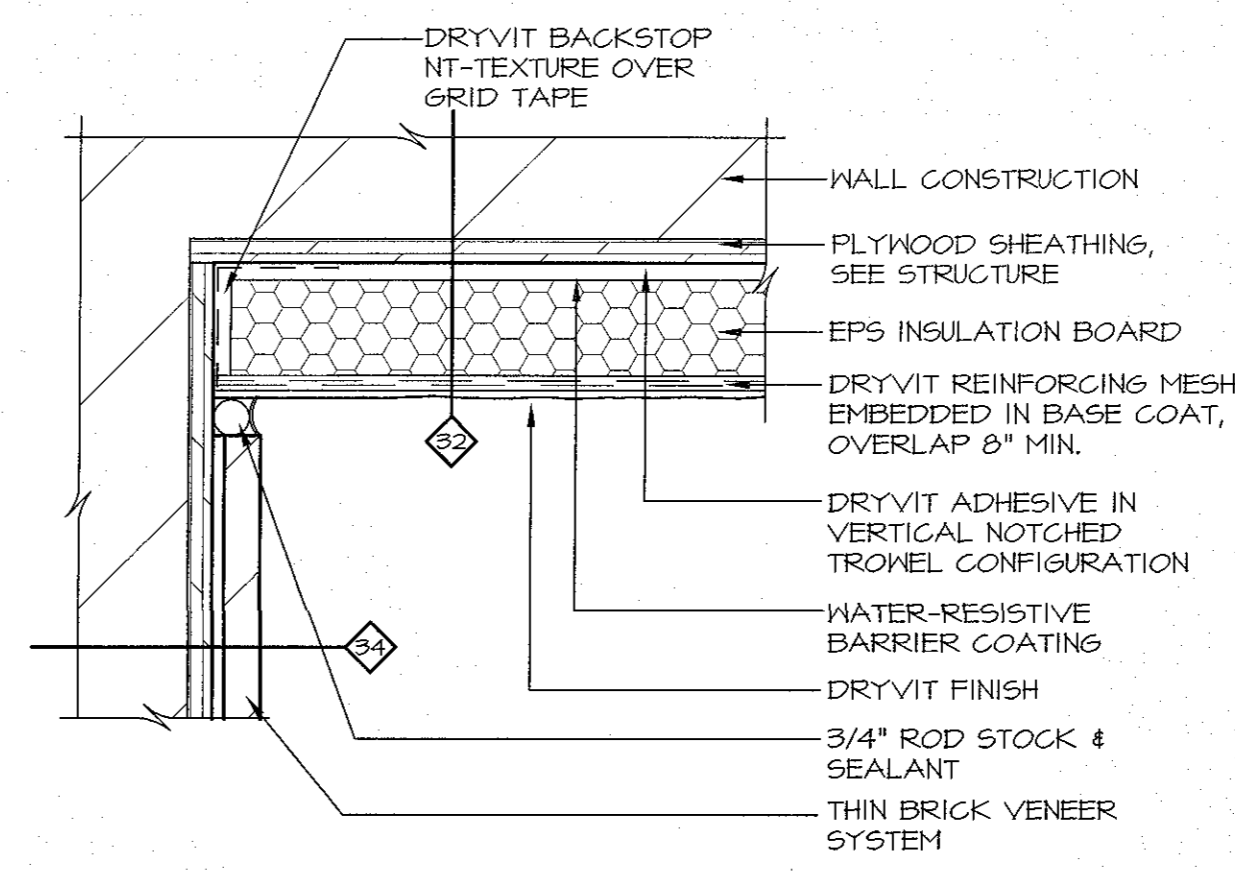
2 E.I.F.S. OUTSIDE CORNER DETAIL
SCALE: 3" = 1'-0"



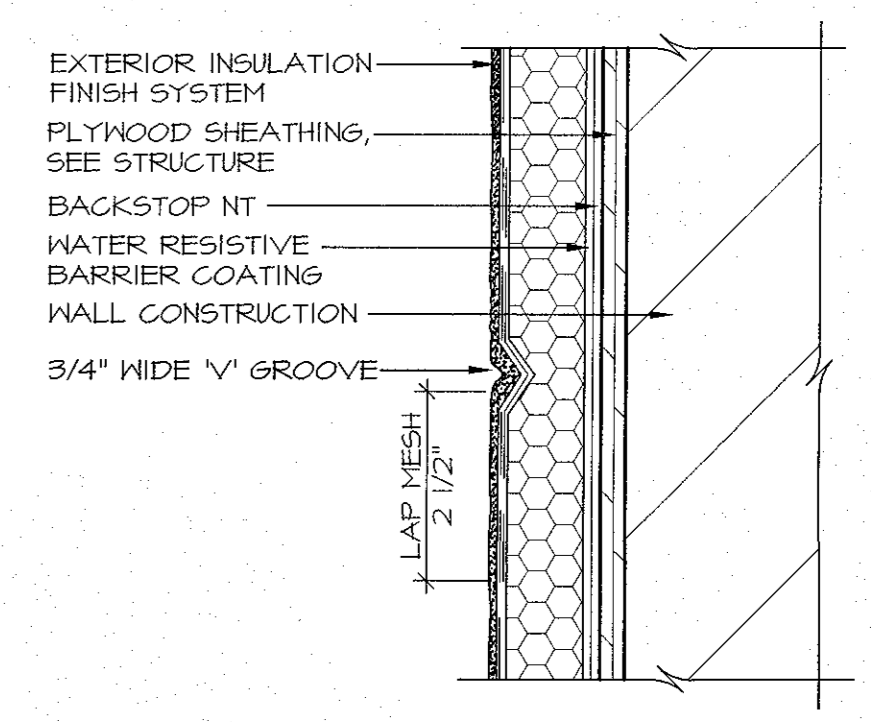
3 BRICK/STONE INSIDE CORNER DETAIL
SCALE: 3" = 1'-0"



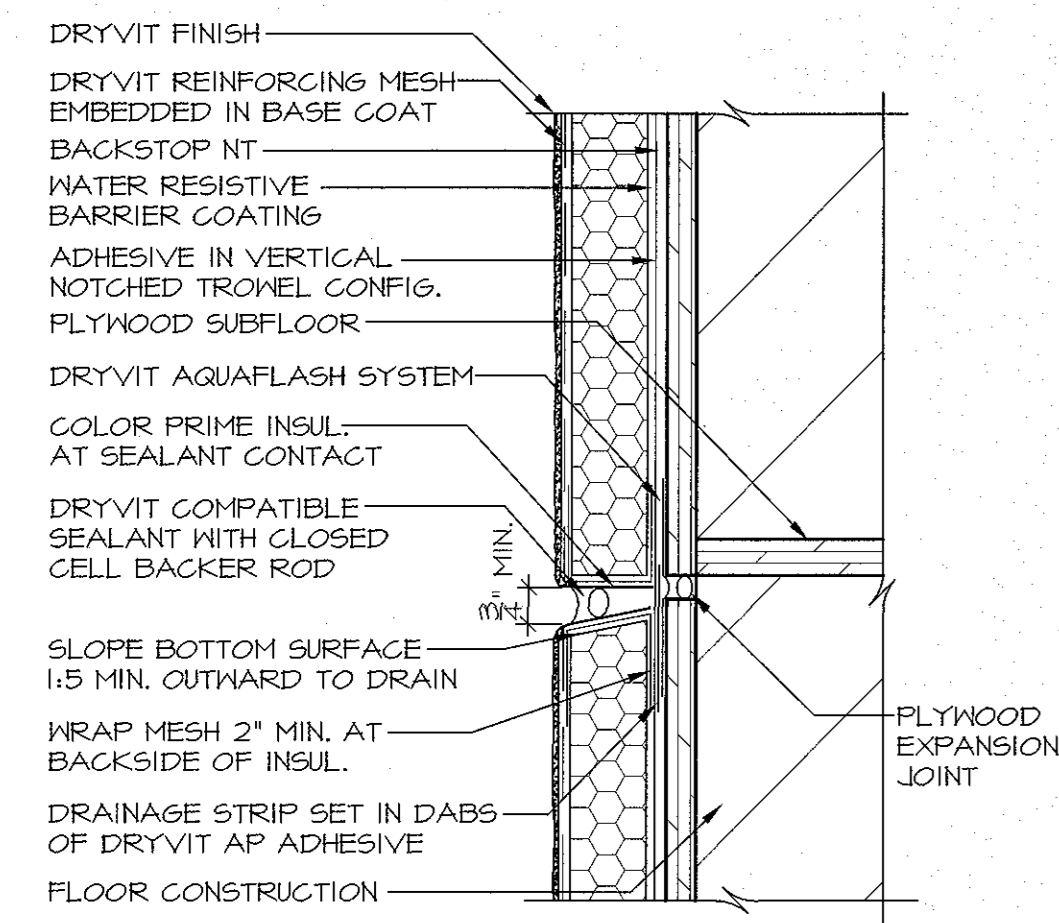
4 BRICK OUTSIDE CORNER DETAIL
SCALE: 3" = 1'-0"



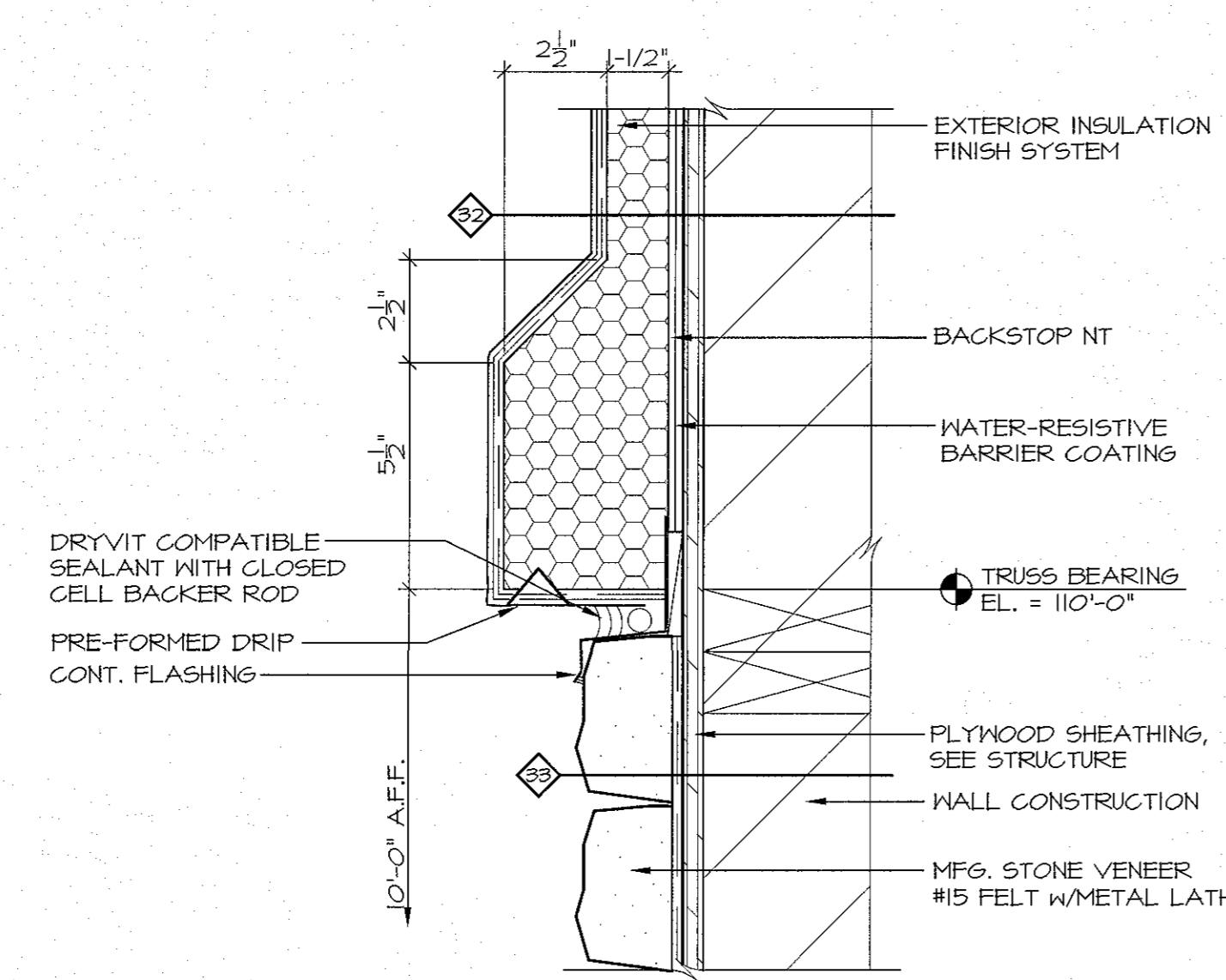
5 BRICK/E.I.F.S. INSIDE CORNER DETAIL
SCALE: 3" = 1'-0"



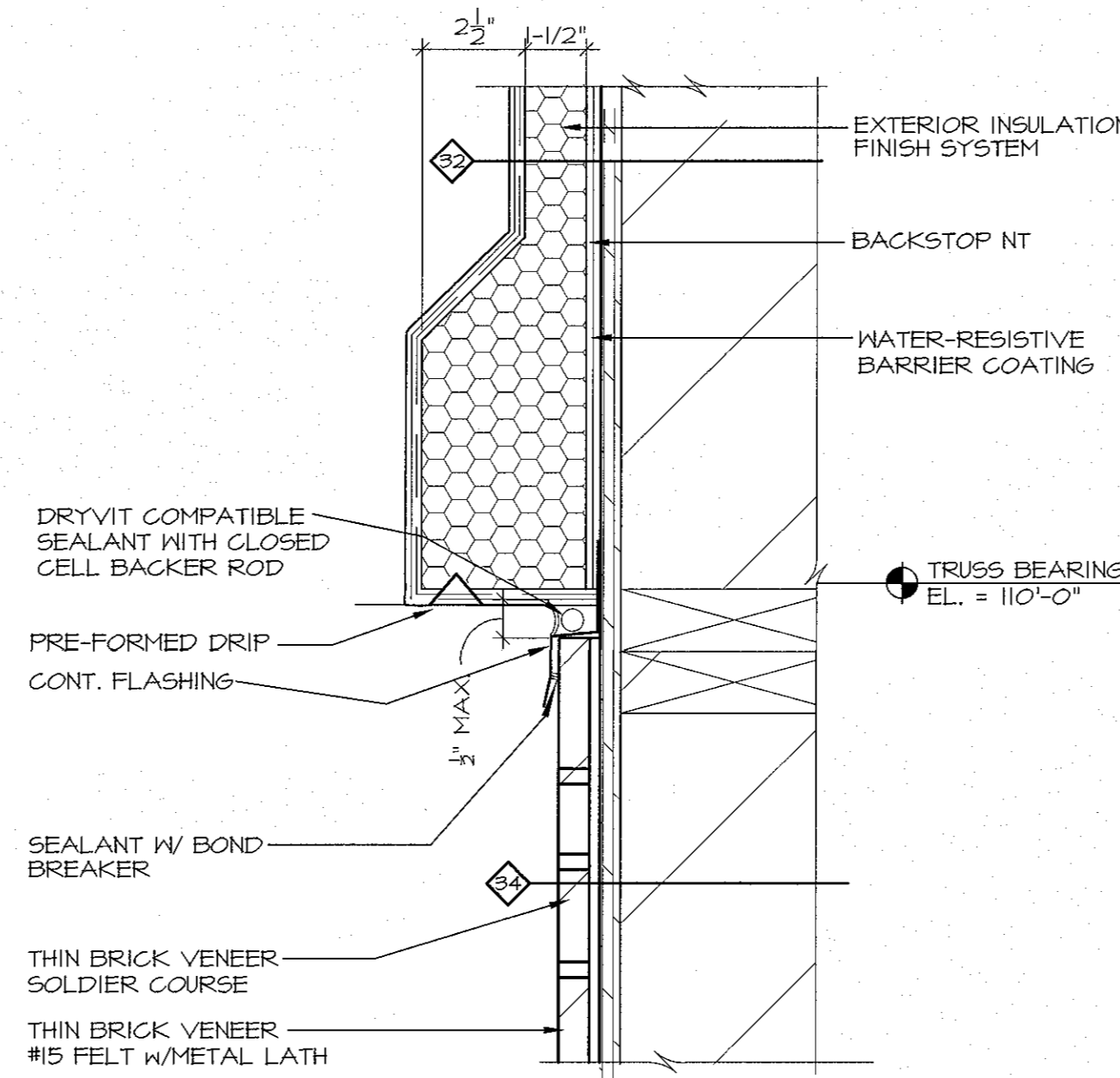
6 E.I.F.S. REVEAL JOINT
SCALE: 3" = 1'-0"



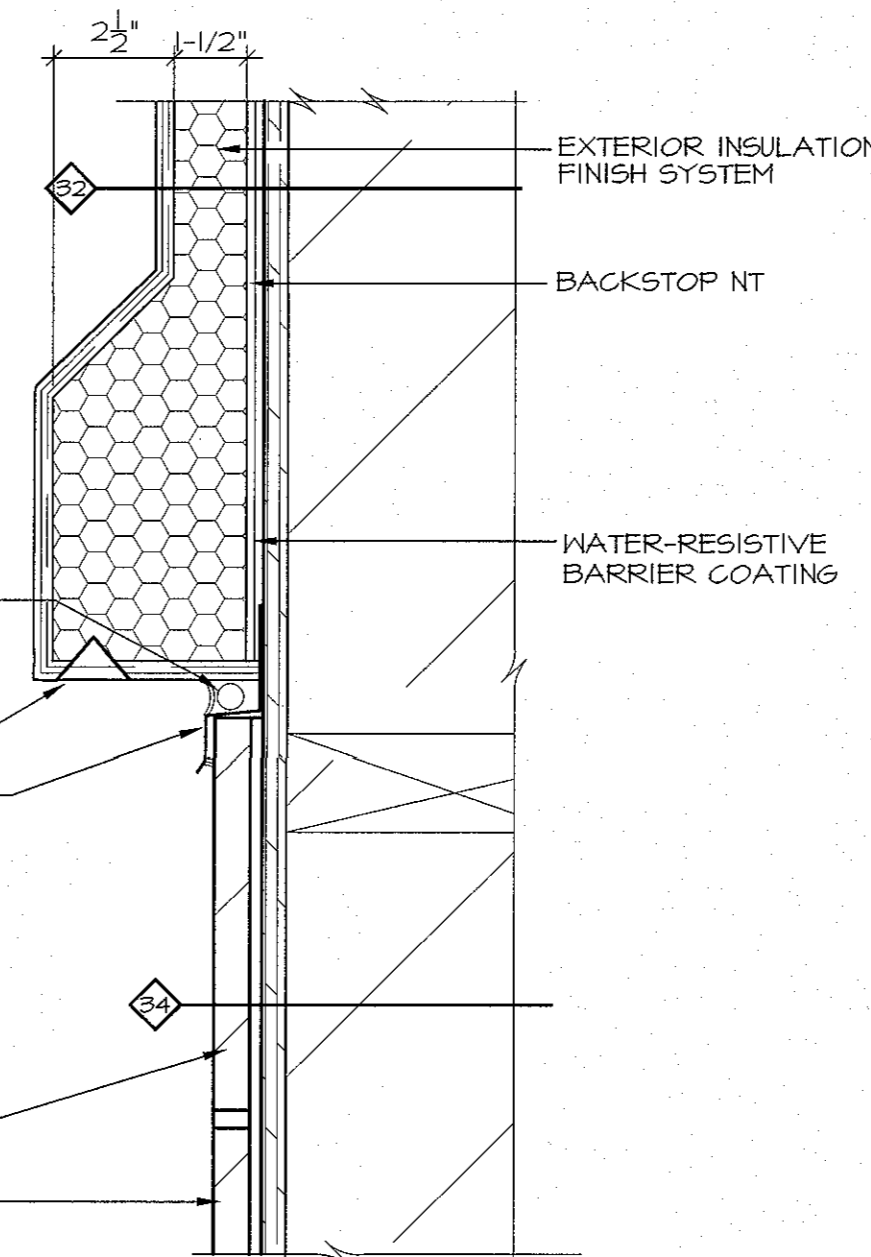
7 E.I.F.S. HORIZ. EXPANSION JOINT
SCALE: 3" = 1'-0"



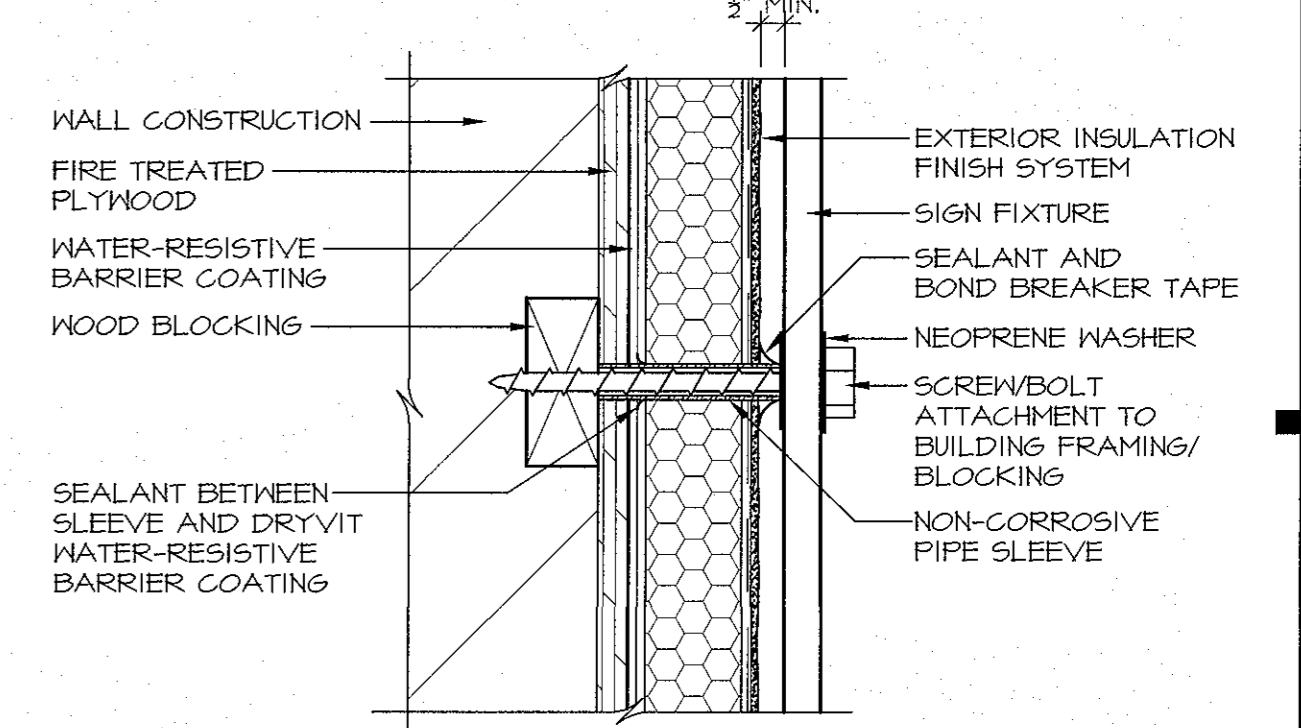
8 E.I.F.S. BAND DETAIL
SCALE: 3" = 1'-0"



9 E.I.F.S. BAND DETAIL
SCALE: 3" = 1'-0"

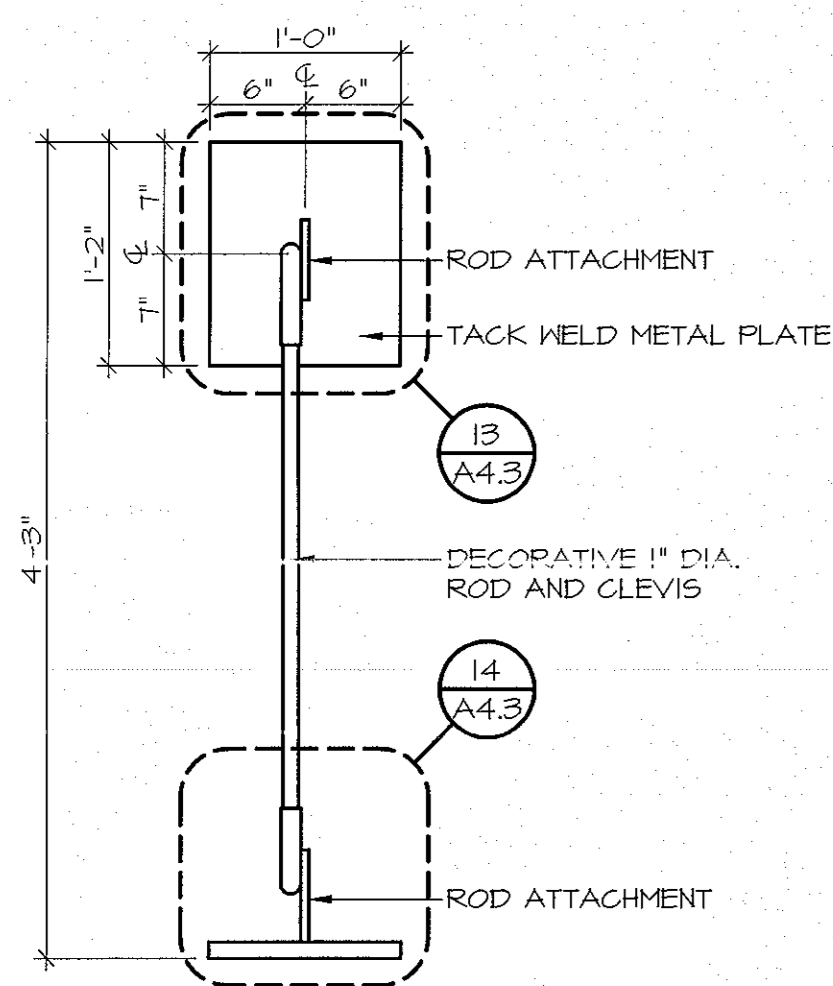


10 E.I.F.S. BAND DETAIL
SCALE: 3" = 1'-0"

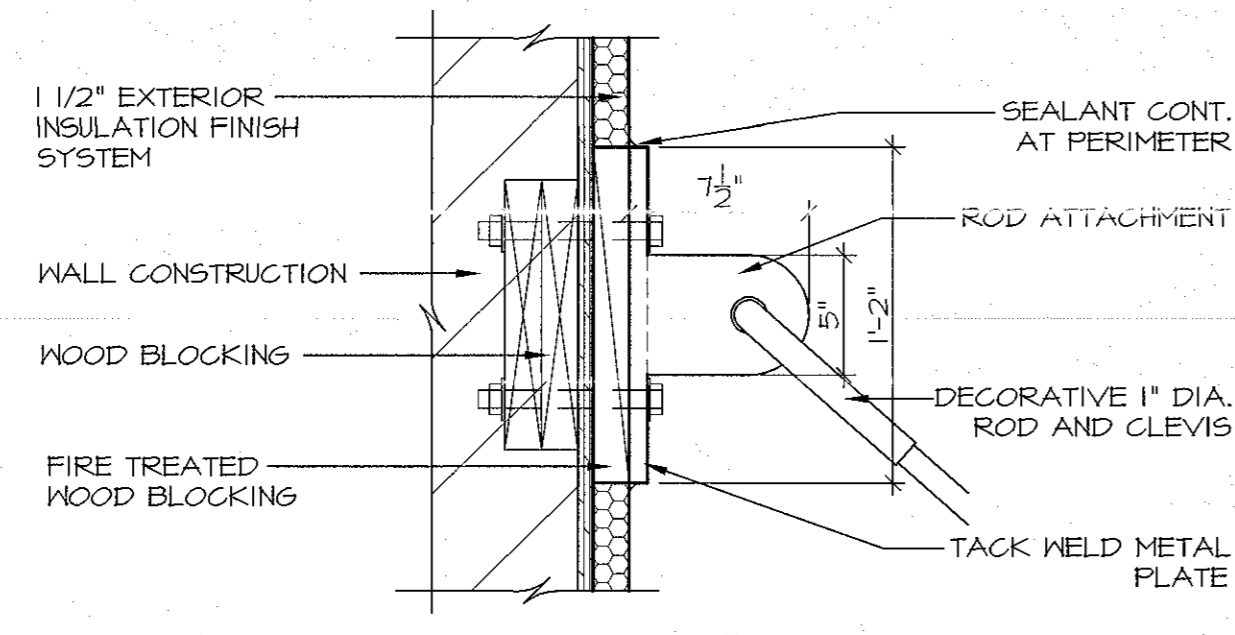


11 SIGNAGE DETAIL
SCALE: 3" = 1'-0"

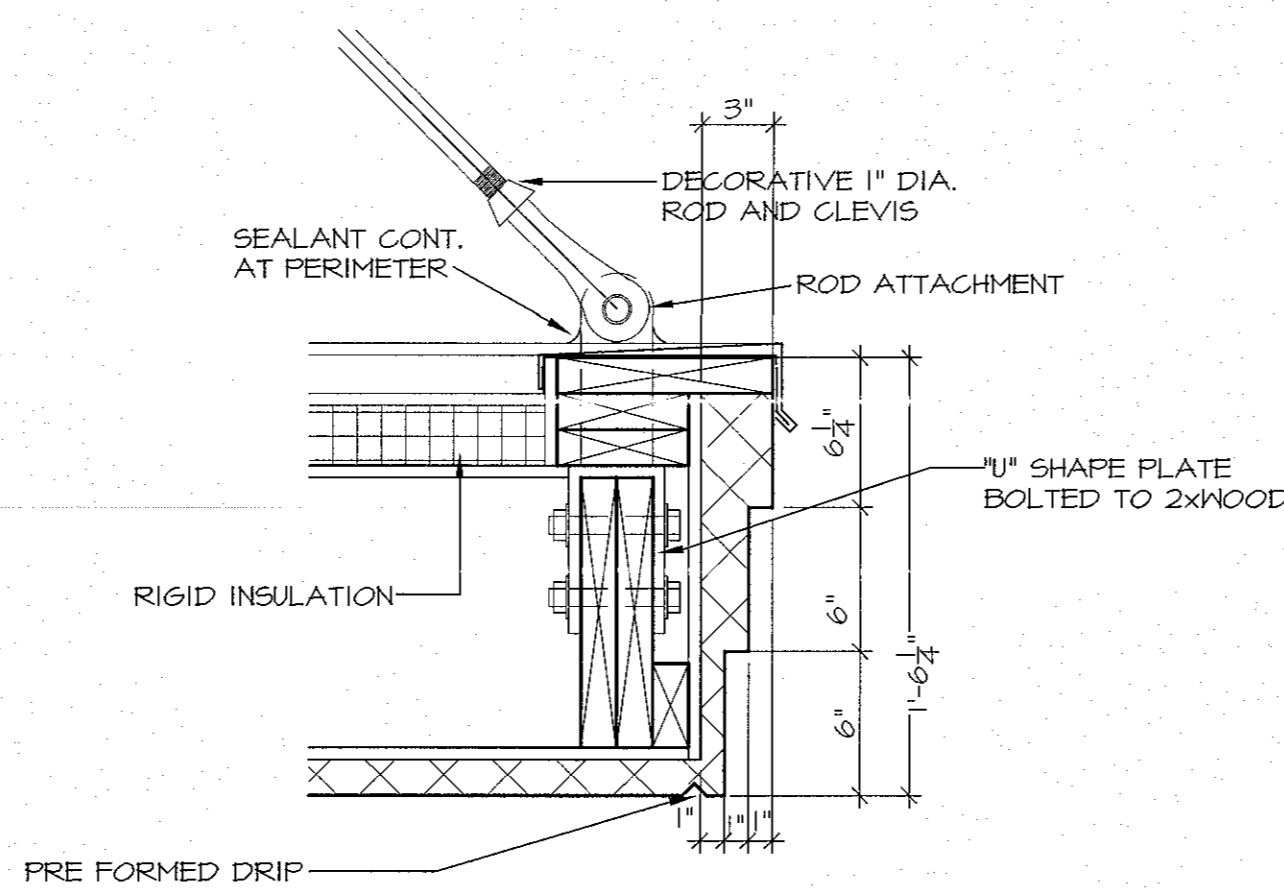
GENERAL NOTES:	
A.	DETAILS BASED ON DRYVIT OUTSULATION PLUS SYSTEM.
B.	G.C. TO VERIFY AND COORDINATE WITH E.I.F.S. MANUFACTURER, E.I.F.S. INSTALLER AND WALL TYPES.
C.	E.I.F.S. INSTALLER TO BE CERTIFIED BY MANUFACTURER.



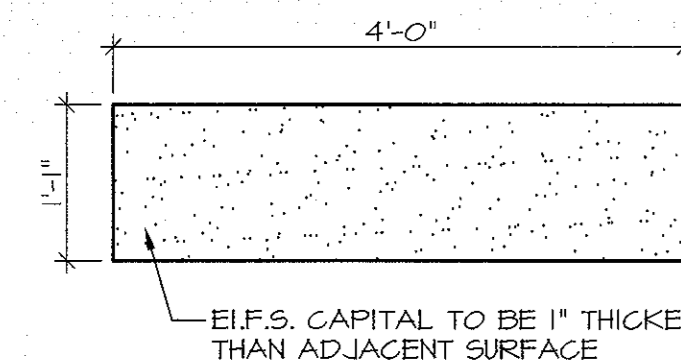
2 BRACKET DETAIL
SCALE: 1" = 1'-0"



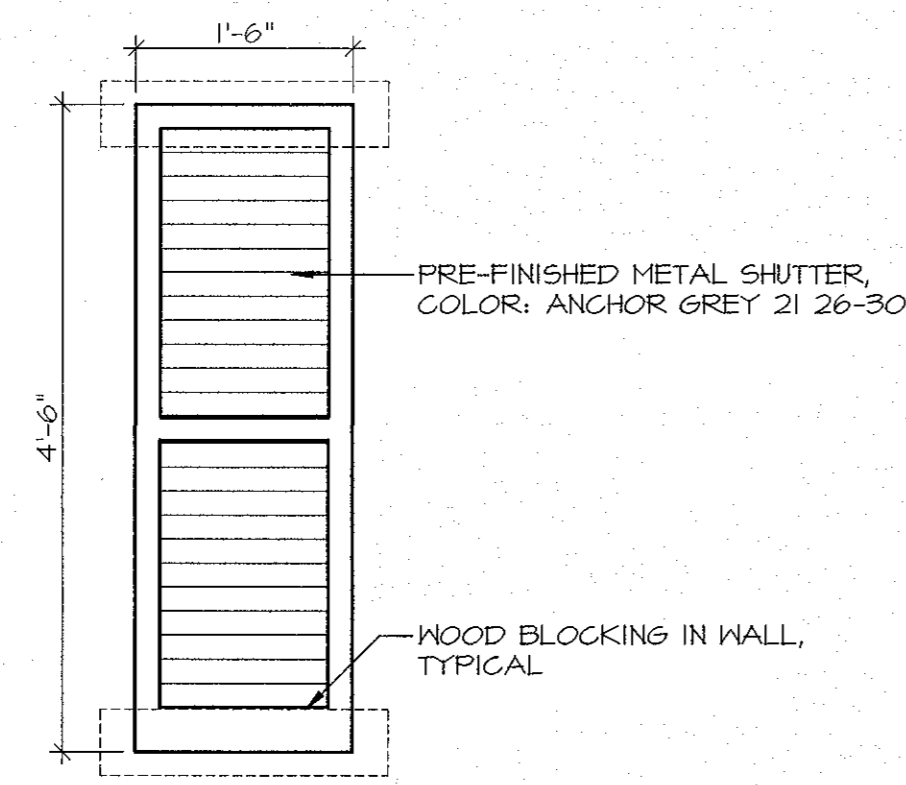
3 BRACKET DETAIL
SCALE: 1-1/2" = 1'-0"



4 BRACKET DETAIL
SCALE: 1-1/2" = 1'-0"



5 WINDOW CAPITAL
SCALE: 3/4" = 1'-0"



6 SHUTTER DETAIL
SCALE: 3/4" = 1'-0"

OPMD 0.05

STEP #1 APPLY DRYVIT AQUAFASH SYSTEM (SEE NOTES 1 AND 3)

STEP #2 INSTALL DRYVIT AQUAFASH SYSTEM AT HEADS (SEE NOTES 1 AND 3)

STEP #3 INSTALL DRYVIT AQUAFASH SYSTEM AT JAMBS (SEE NOTES 1 AND 3)

STEP #4 INSTALL DRYVIT AQUAFASH SYSTEM AT CORNERS (SEE NOTES 1, 3 AND 4)

Opening Preparation-AquaFlash® System Option

Outsulation®Plus MD System®

1. DRYVIT AQUAFASH SHALL EXTEND TO INTERIOR FACE OF OPENING.
2. REFER TO HEAD, SILL AND JAMB DETAILS FOR FLASHING INTEGRATION.
3. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LEU OF DRYVIT AQUAFASH SYSTEM.
4. INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS PER MANUFACTURER'S RECOMMENDATIONS, LOCAL REQUIREMENTS AND PROJECT DOCUMENTS.

APPROVED BY: [Signature] REV: [] DATE: []

OPMD 0.07

STEP #1 REFER TO OPMD 0.05, AND 0.06 FOR PREPARATION OF OPENING PRIOR TO FLASHING APPLICATION

STEP #2 APPLY DRYVIT AQUAFASH SYSTEM SILL LAPPING OVER LIP OF SILL PAN FLASHING (SEE NOTES 1 AND 2)

STEP #3 INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS AND APPLY DRYVIT AQUAFASH SYSTEM OVER VERTICAL LEGS OF FLASHING (SEE NOTES 1 AND 2)

Opening Flashing Integration

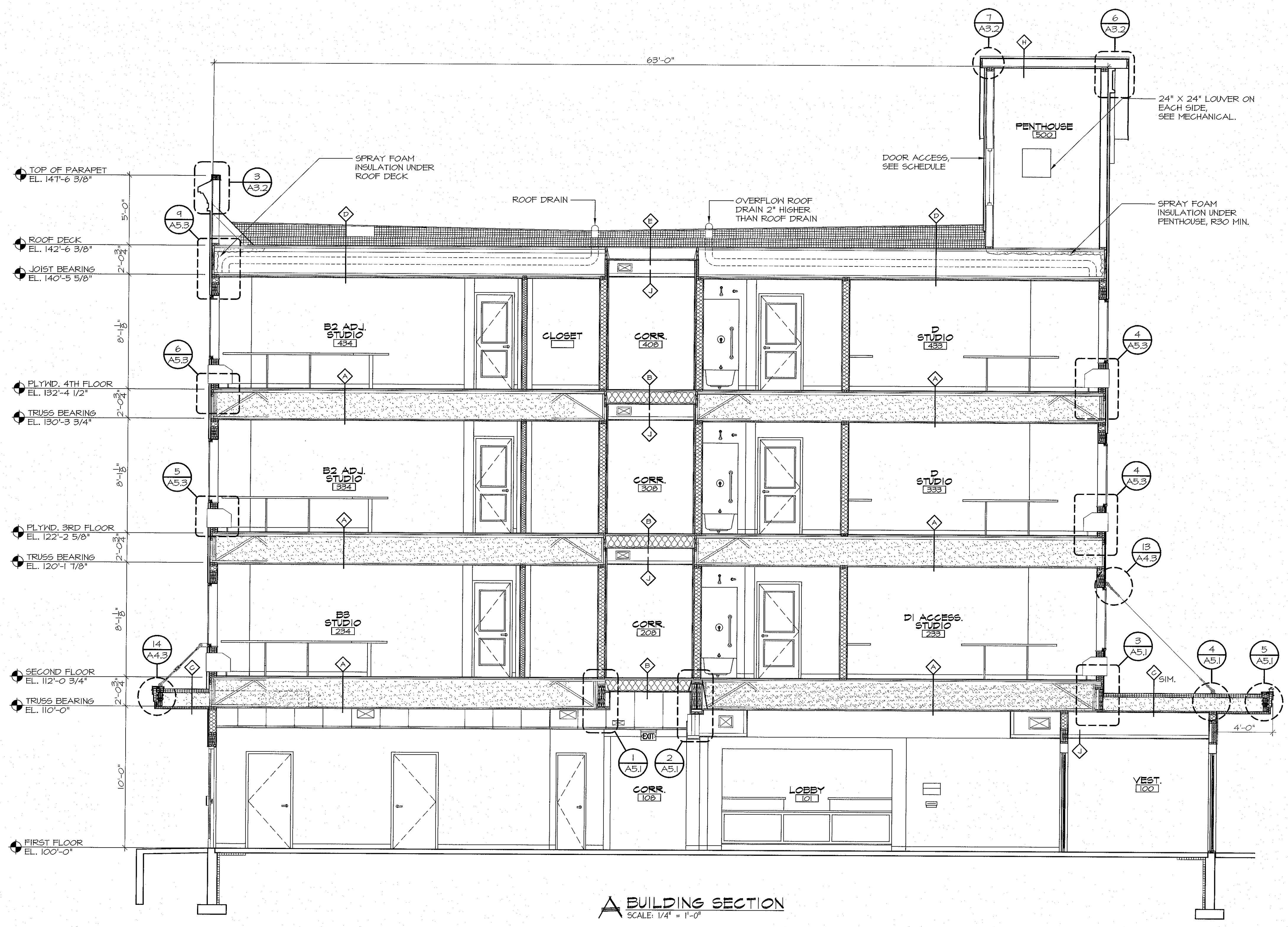
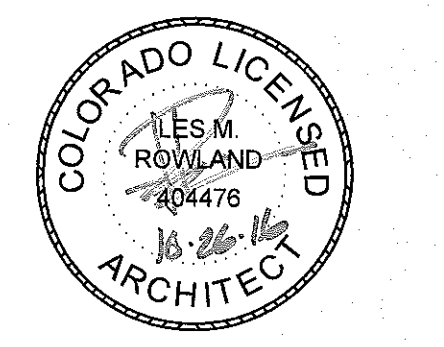
Outsulation®Plus MD System®

1. REFER TO OPMD 0.05, 0.06 FOR INTEGRATION OF FLASHING.
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LEU OF DRYVIT AQUAFASH SYSTEM.

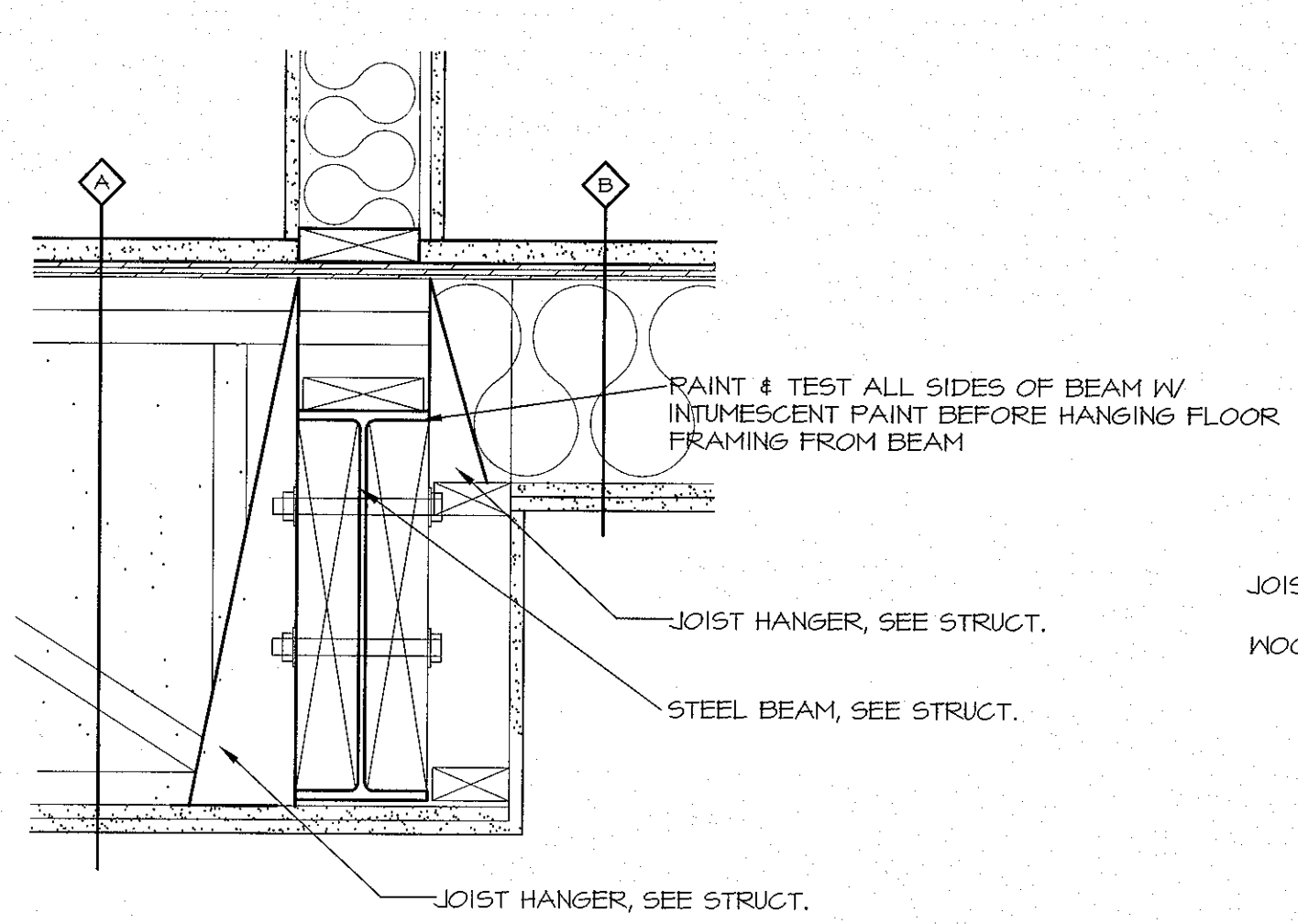
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7 STANDARD DRYVIT DETAILS
SCALE: 3" = 1'-0"

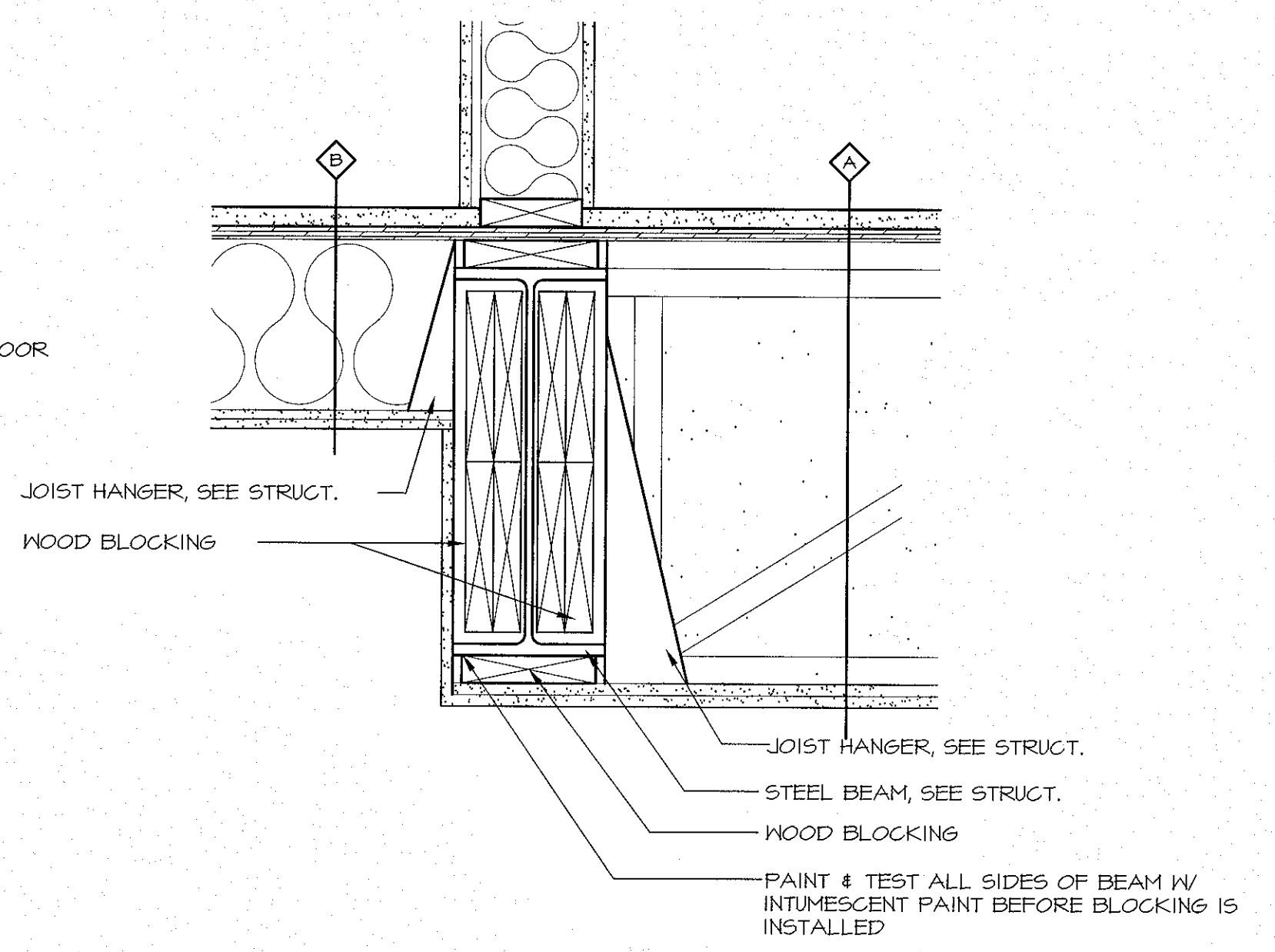
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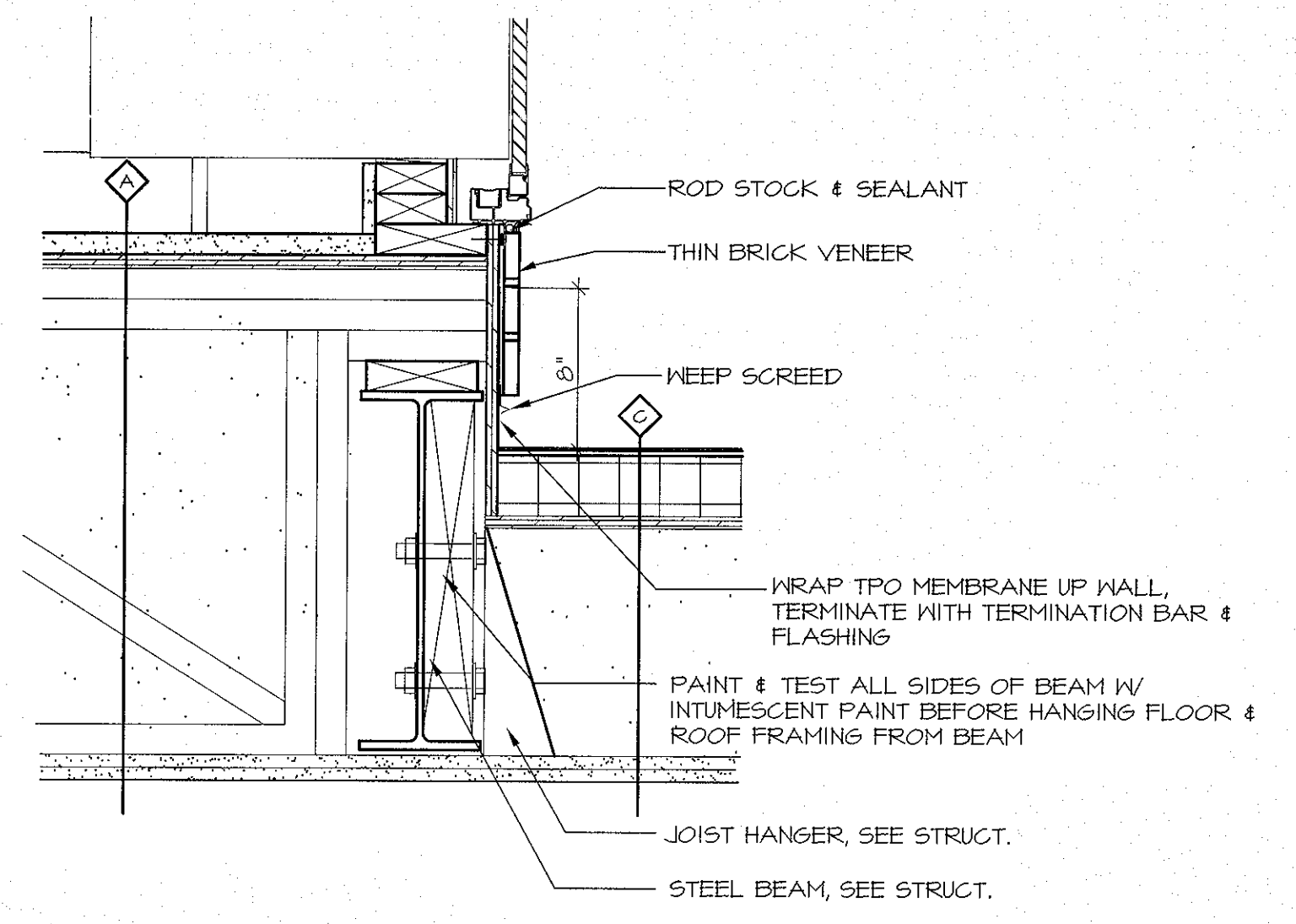
A BUILDING SECTION
SCALE: 1/4" = 1'-0"



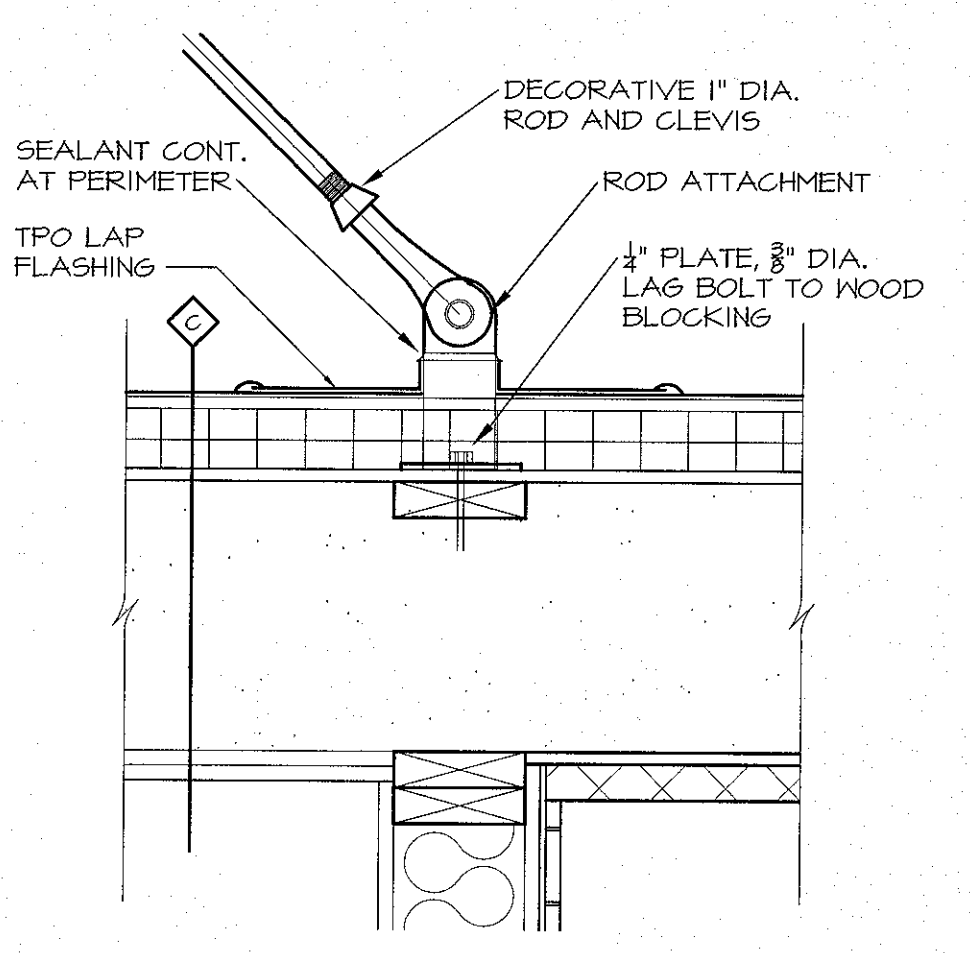
1 BEAM DETAIL
SCALE: 1 1/2" = 1'-0"



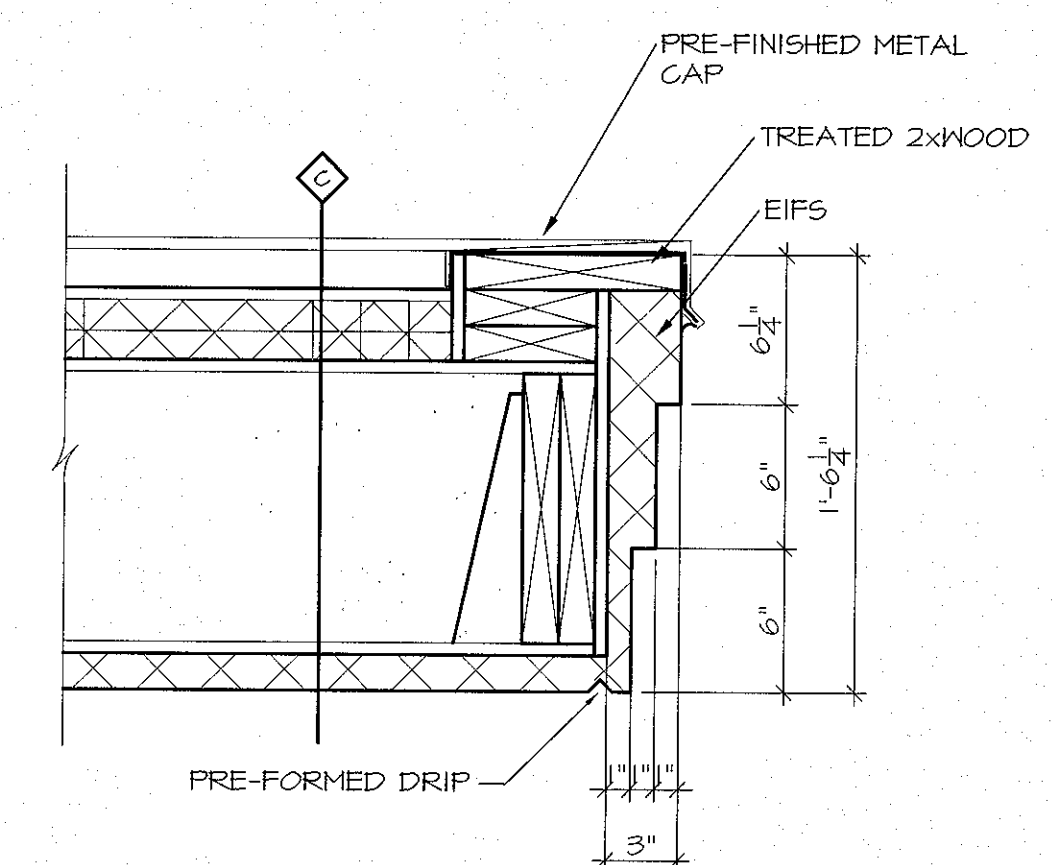
2 BEAM DETAIL
SCALE: 1 1/2" = 1'-0"



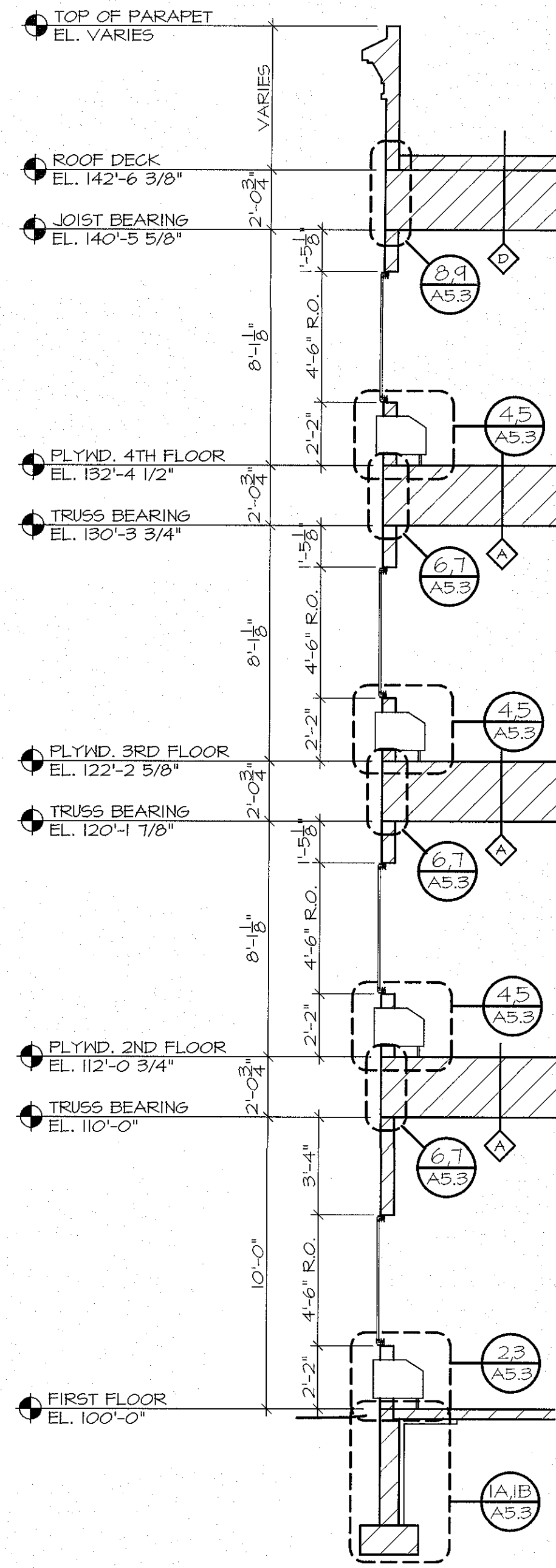
3 BEAM DETAIL
SCALE: 1 1/2" = 1'-0"



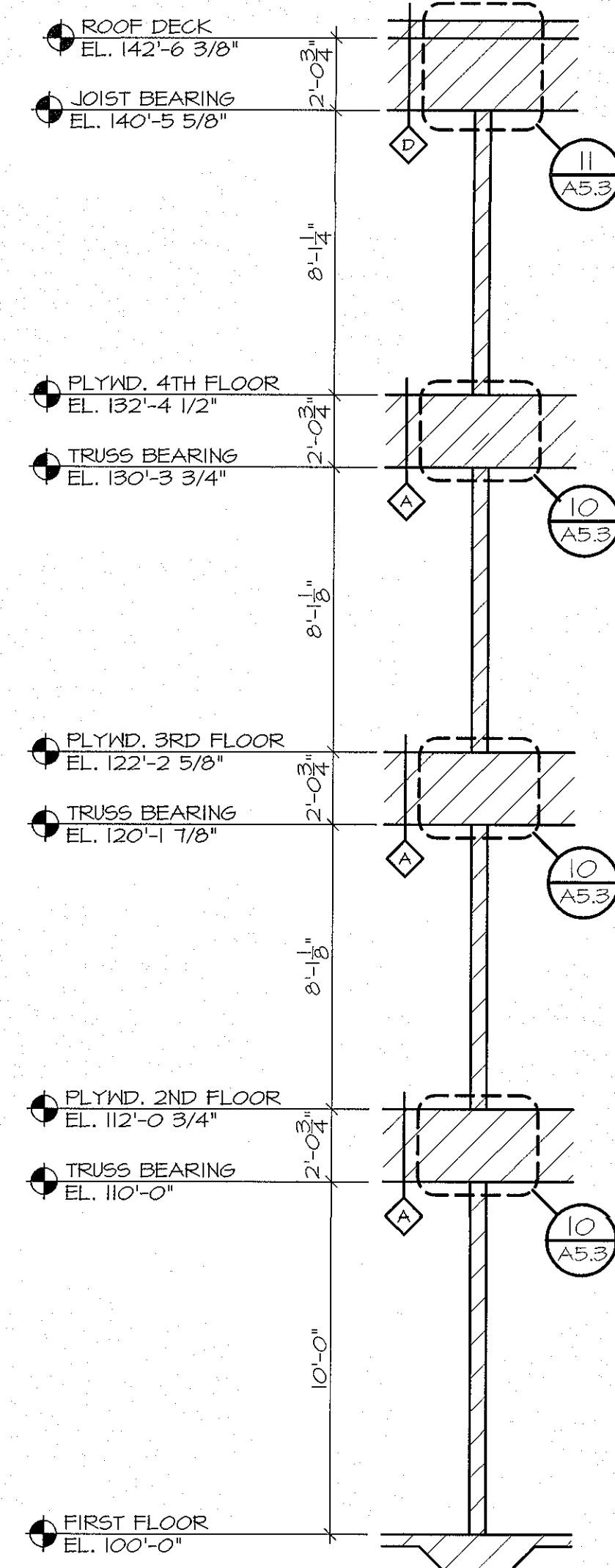
4 ANCHOR DETAIL
SCALE: 1 1/2" = 1'-0"



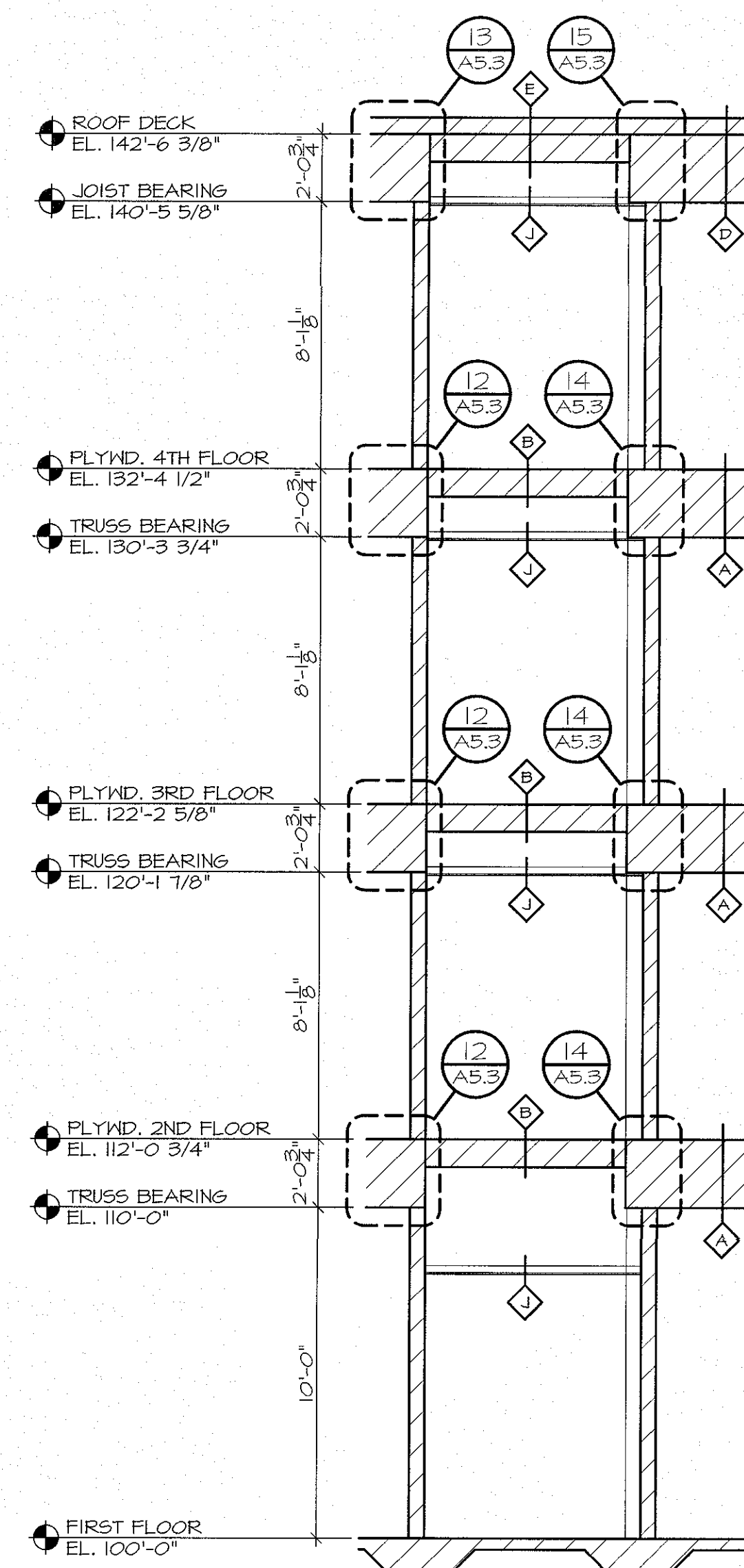
5 ROOF EDGE DETAIL
SCALE: 1 1/2" = 1'-0"



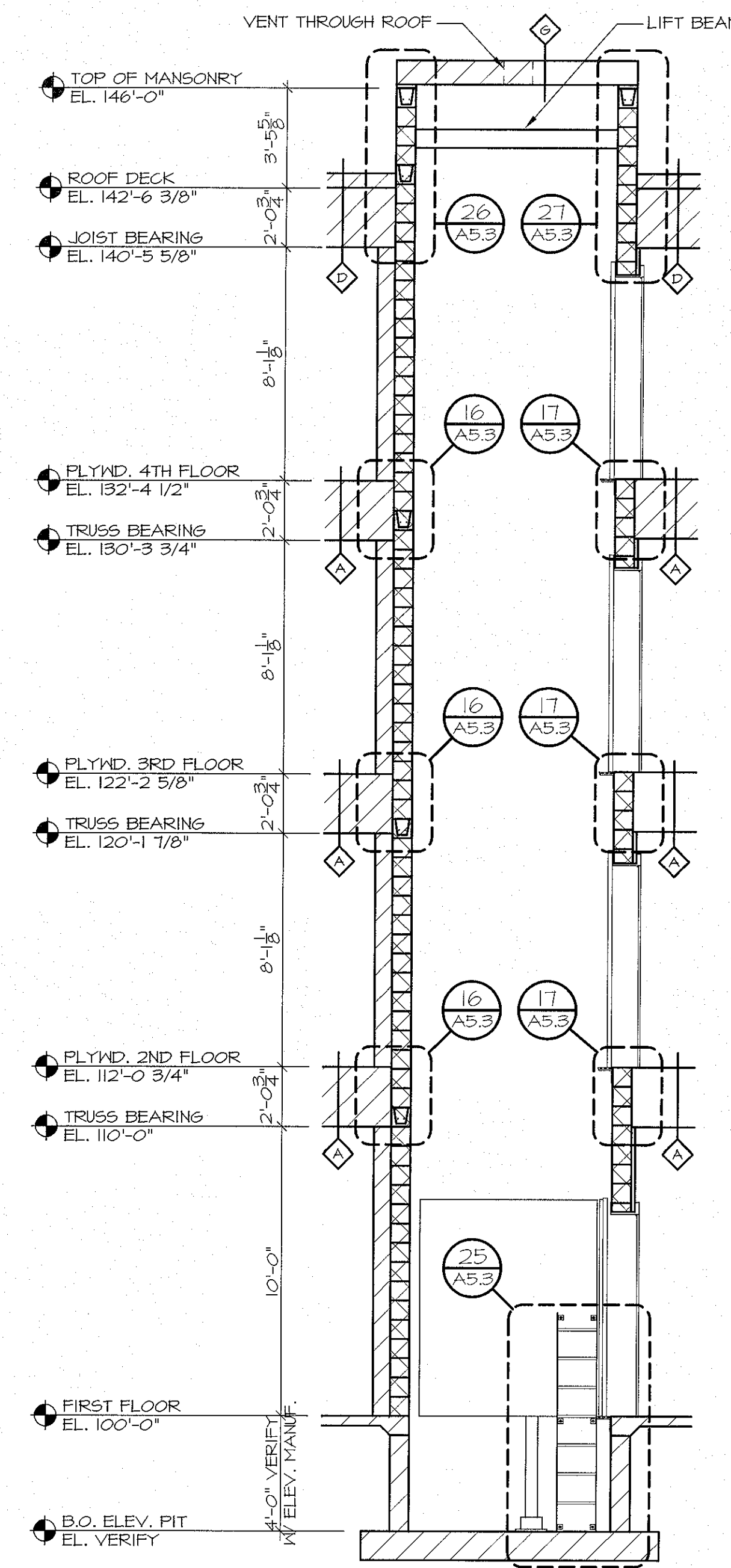
1 WALL SECTION
SCALE: 1/4" = 1'-0"



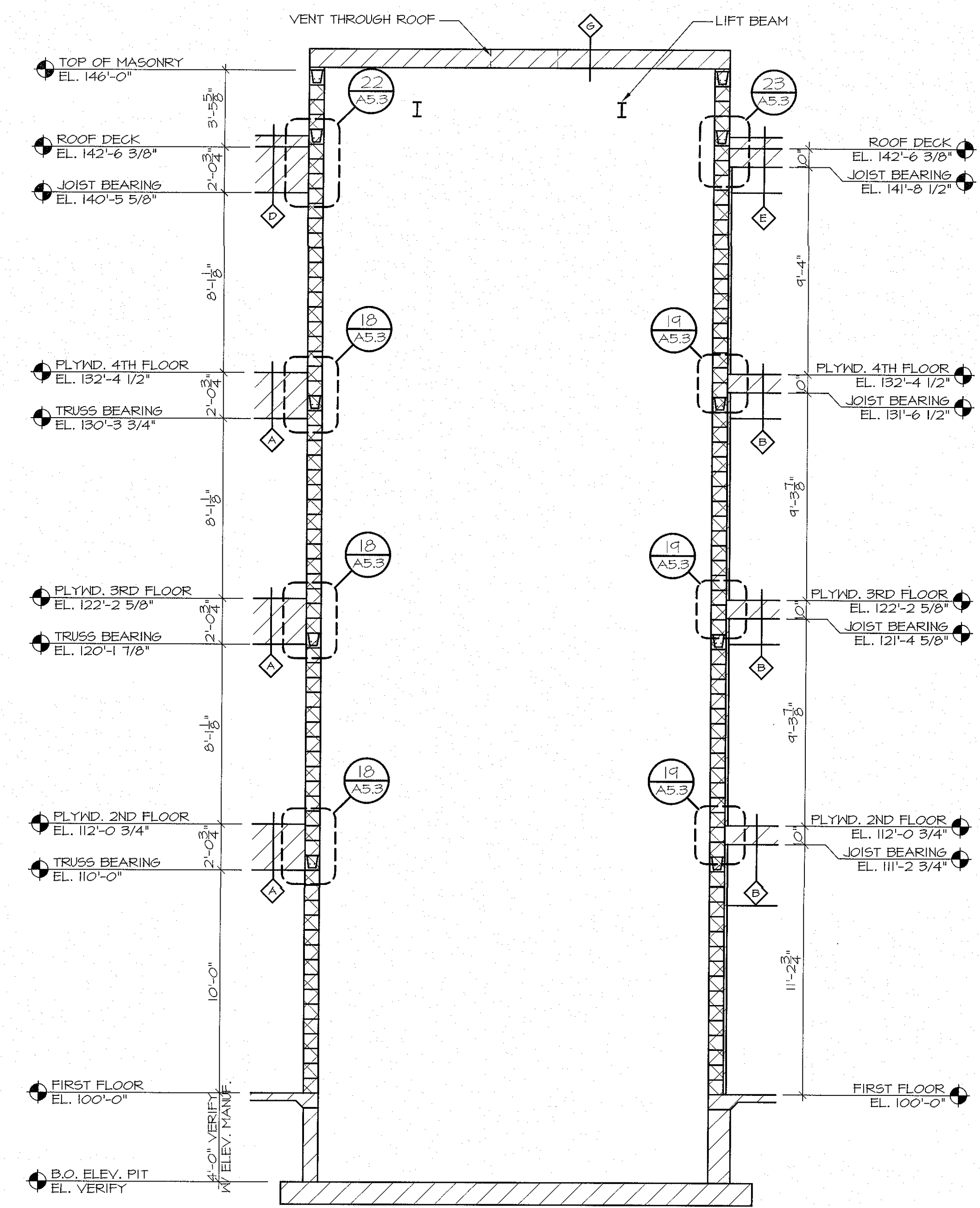
2 PARTY WALL SECTION
SCALE: 1/4" = 1'-0"



3 CORRIDOR SECTION
SCALE: 1/4" = 1'-0"



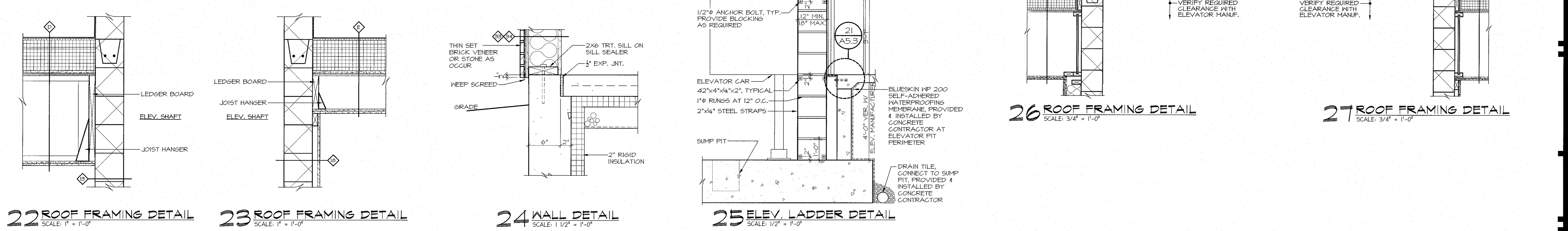
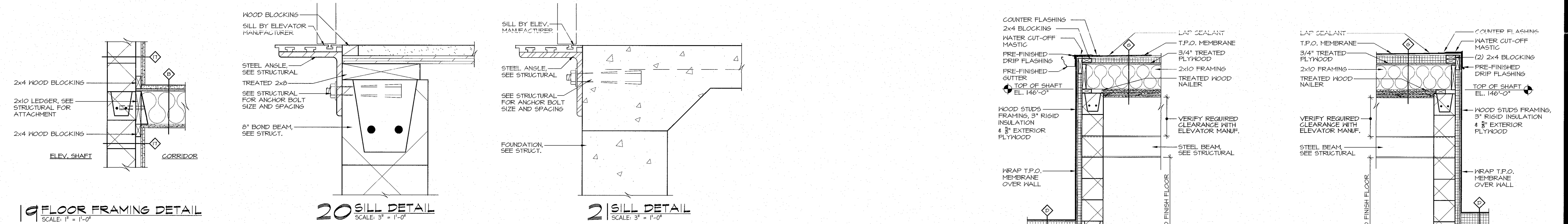
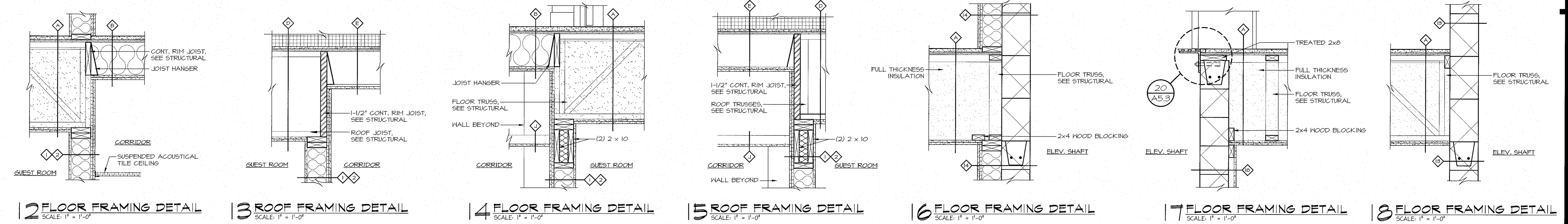
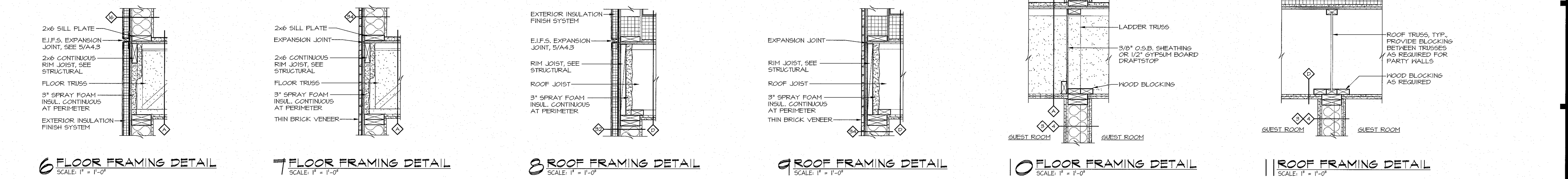
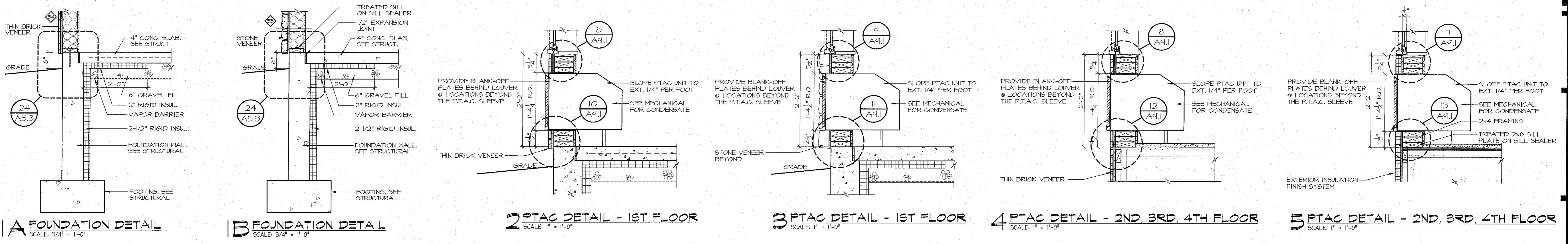
4 ELEVATOR SECTION
SCALE: 1/4" = 1'-0"



5 ELEVATOR SECTION
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- A. SEE SOILS REPORT FOR OVEREXCAVATION REQUIREMENTS AND ENGINEERED FILL DEPTH.



CANDLEWOOD SUITES
Pueblo, CO

PROJ. MGR.
PRO GROUP INC.

208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

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COLORADO LICENSED
LES M. ROWLAND
404478
ARCHITECT

ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

SHEET NAME: Wall Section Details

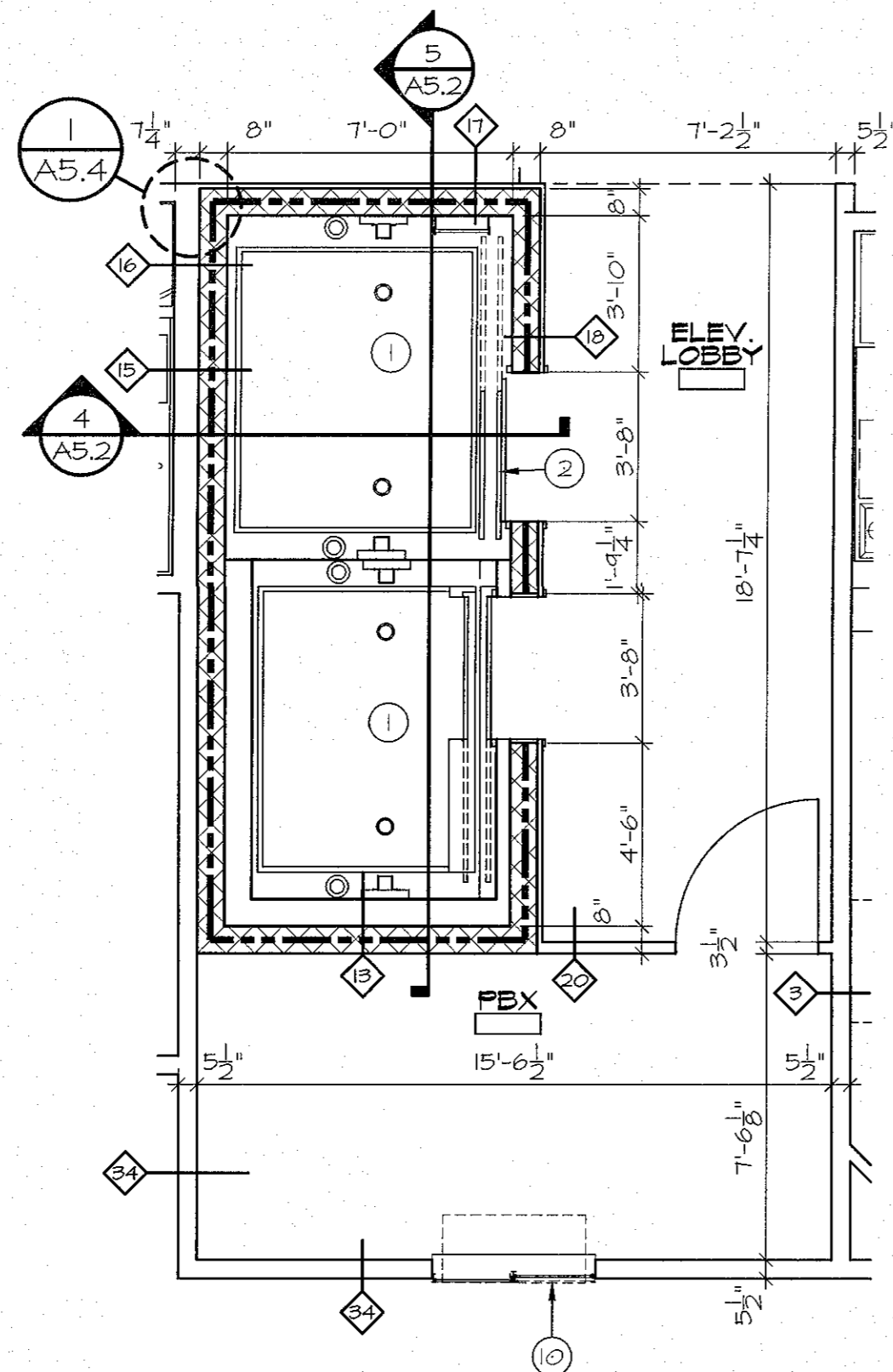
PROJECT NO.
W16006

DRAWN BY:
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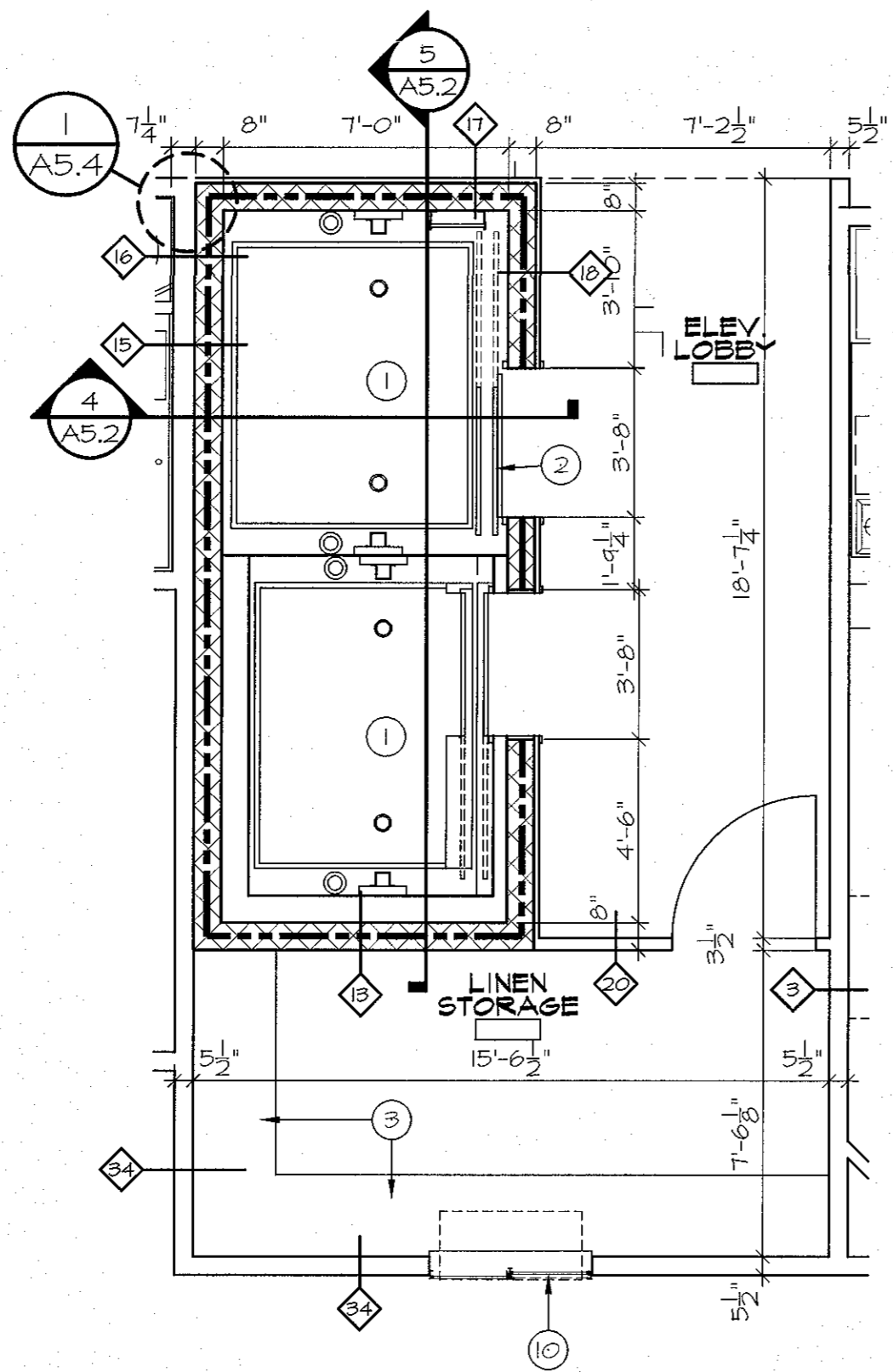
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WLP

DATE:
10.26.2016

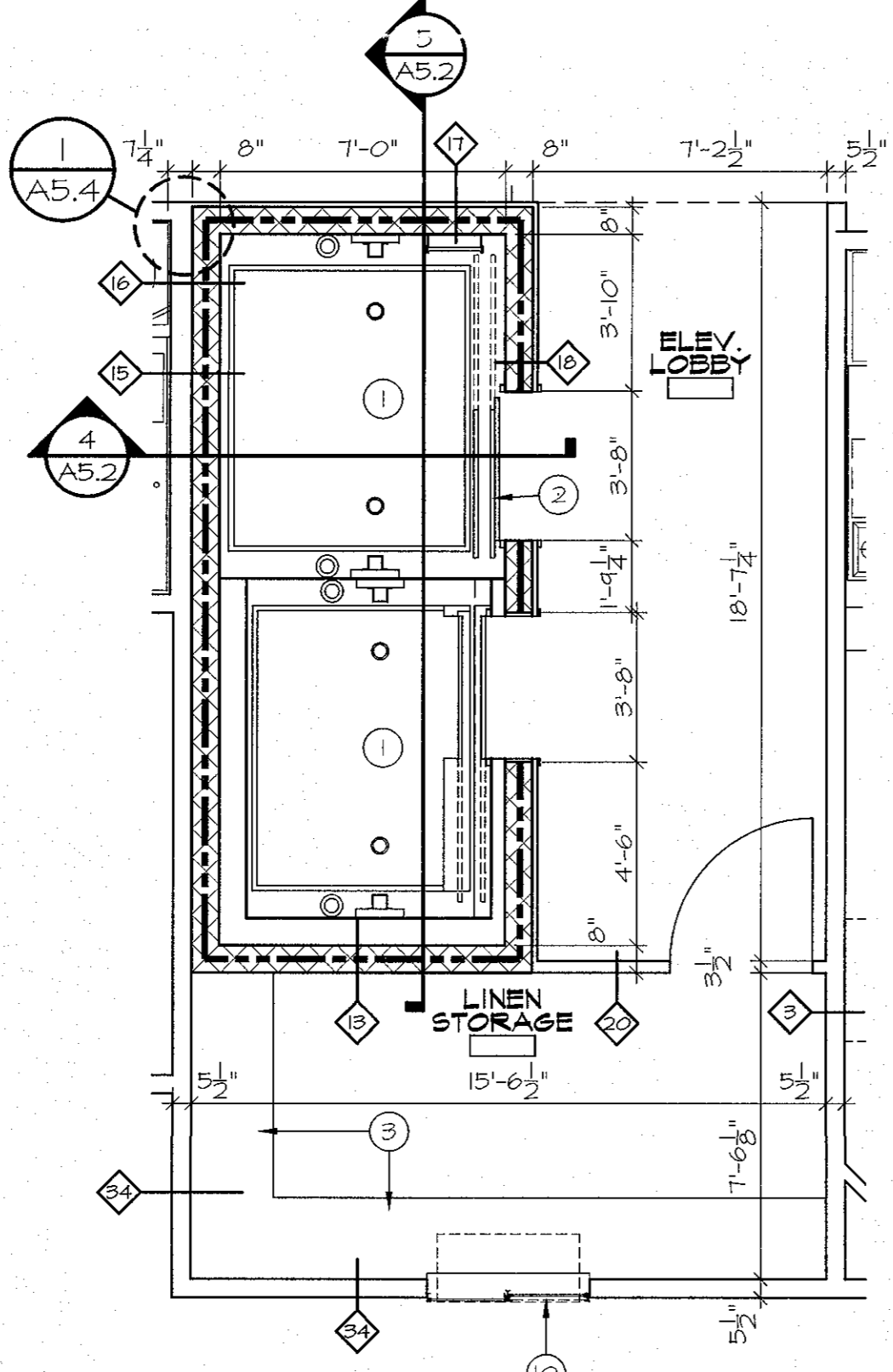
SHEET:
A5.3



A ENLARGED SECOND FLOOR ELEV. PLAN
SCALE: 1/4" = 1'-0"



B ENLARGED THIRD FLOOR ELEV. PLAN
SCALE: 1/4" = 1'-0"



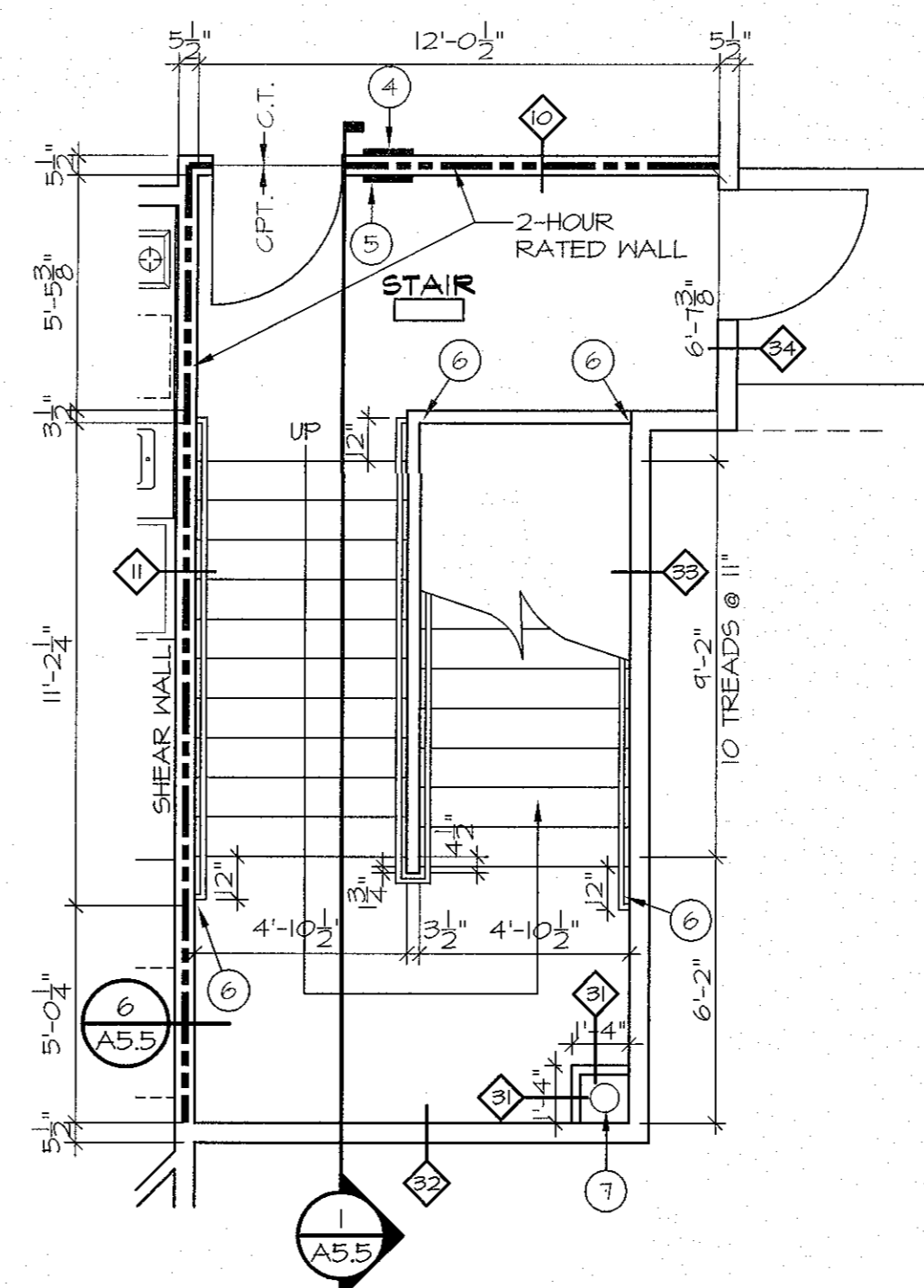
C ENLARGED FOURTH FLOOR ELEV. PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

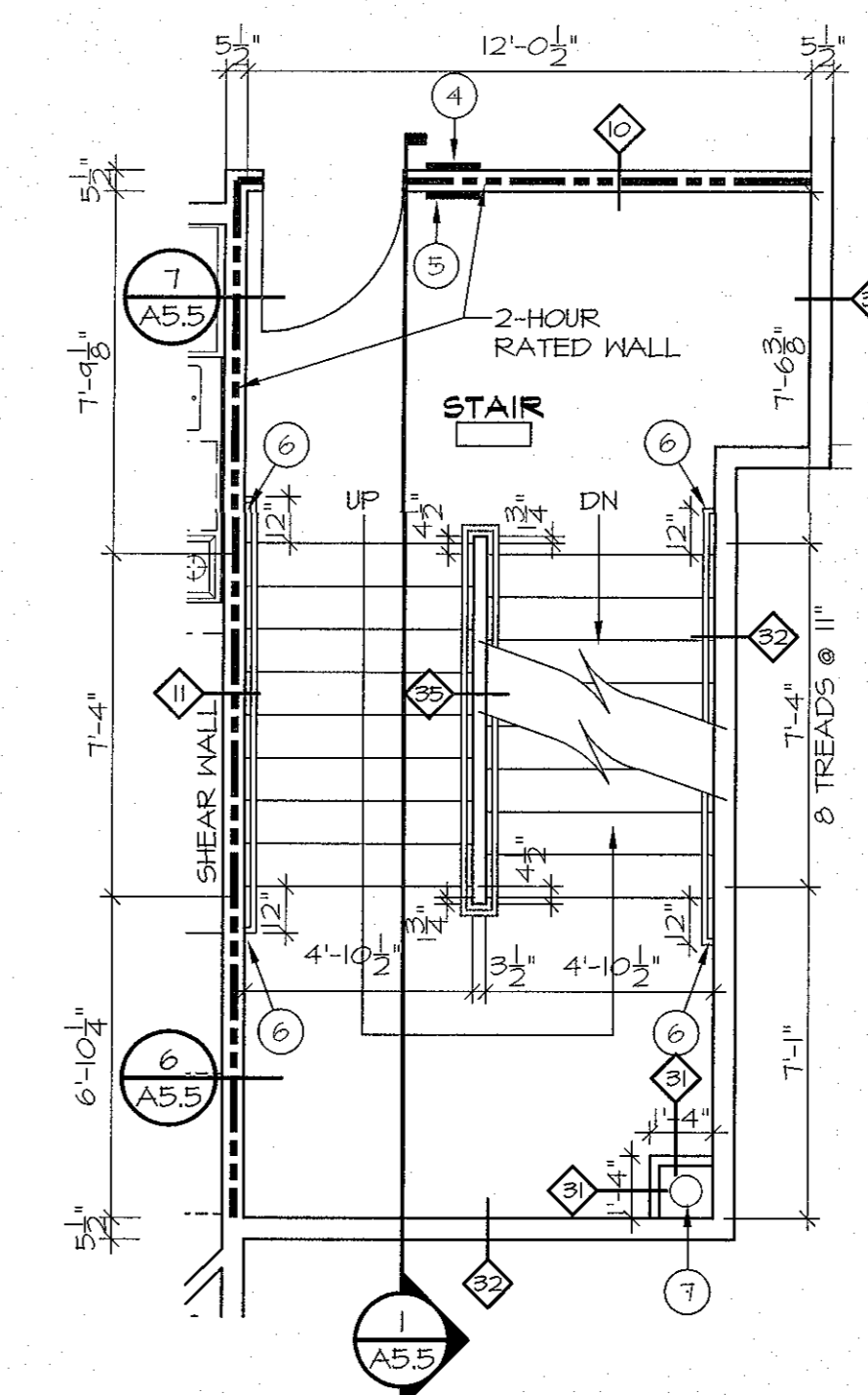
- A. SEE STRUCTURAL FOR LOCATION AND CONSTRUCTION OF SHEAR WALLS.
- B. ALL DIMENSIONS FROM STUD FACE TO STUD FACE UNLESS OTHERWISE NOTED.
- C. VERIFY ALL DIMENSION BEFORE CONSTRUCTION.
- D. IT IS THE RESPONSIBILITY OF THE JOB SUPERINTENDENT TO COORDINATE THE LOCATION OF ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, WIRING AND OPENINGS PRIOR TO INSTALLATION.
- E. SUPERINTENDENT TO VERIFY ALL ROUGH-INS AND ROUGH-OPENINGS.
- F. SUPERINTENDENT TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH ANY WORK.
- G. PROVIDE CORNER GUARDS ON ALL OUTSIDE CORNERS.

KEYED NOTES:

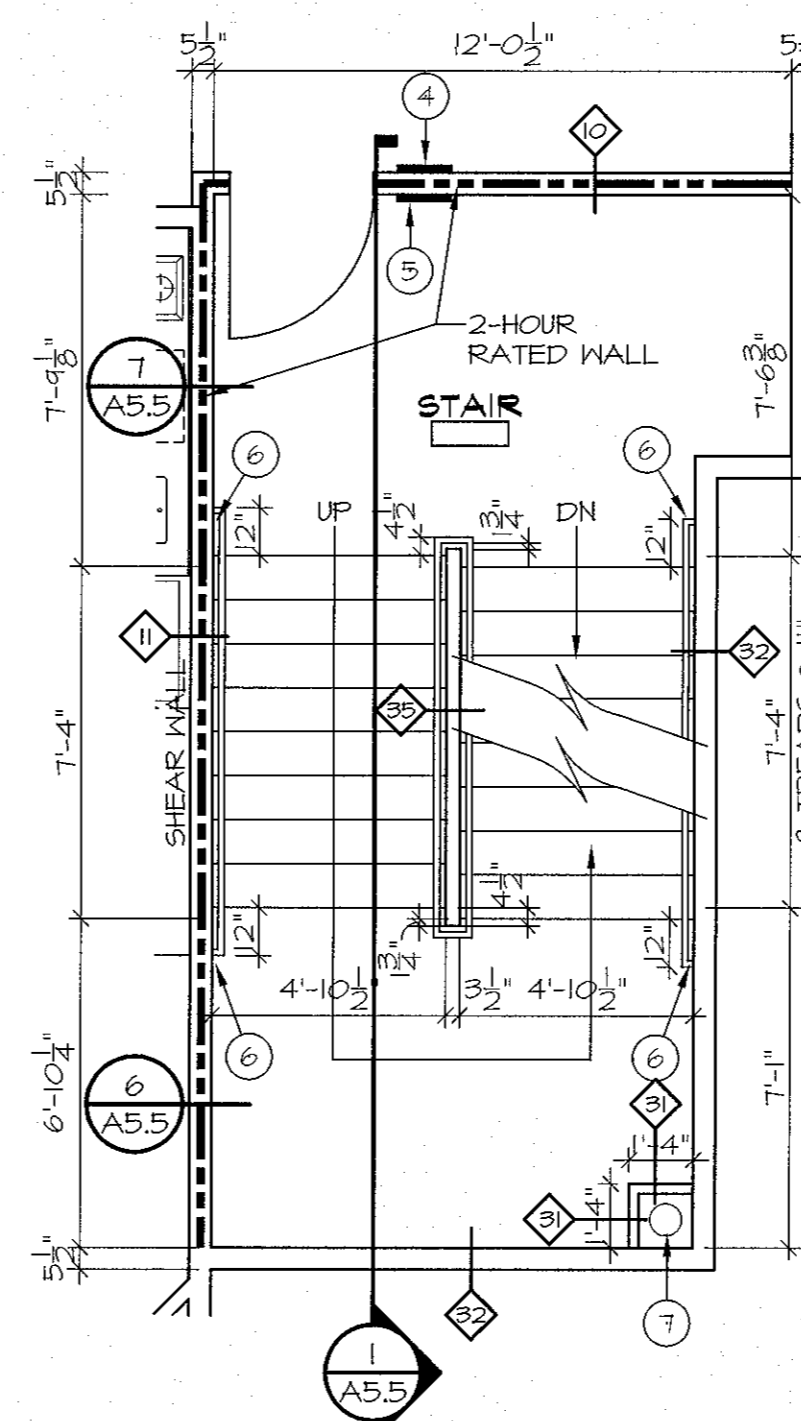
1. ELEVATOR DIMENSIONS ARE BASED ON OTIS 3500 LB. CAPACITY, EXPRESS DRAW, ISO F.P.H. VERIFY DIMENSIONS WITH SELECTED MANUFACTURER. IF DIFFERENT MANUFACTURER SELECTED, NOTIFY THE ARCHITECT OF RECORD.
2. ELEVATOR SUPPLIER TO FURNISH 90 MIN. RATED ELEVATOR DOORS AT ALL FLOOR LEVELS.
3. STORAGE SHELVING, SEE DETAIL 0/A6.1.
4. TACTILE EXIT SIGN.
5. STAIRWAY IDENTIFICATION SIGN.
6. RETURN HANDRAIL END TO THE WALL. PAINT HANDRAIL TO MATCH WALL COLOR.
7. ENCLOSED FIRE SPRINKLER STANDPIPE SYSTEM. VERIFY LOCATION WITH SPRINKLER SYSTEM SUPPLIER.
8. ALTERNATING TREAD DEVICE.
9. NOT USED.
10. SPANDREL GLASS.



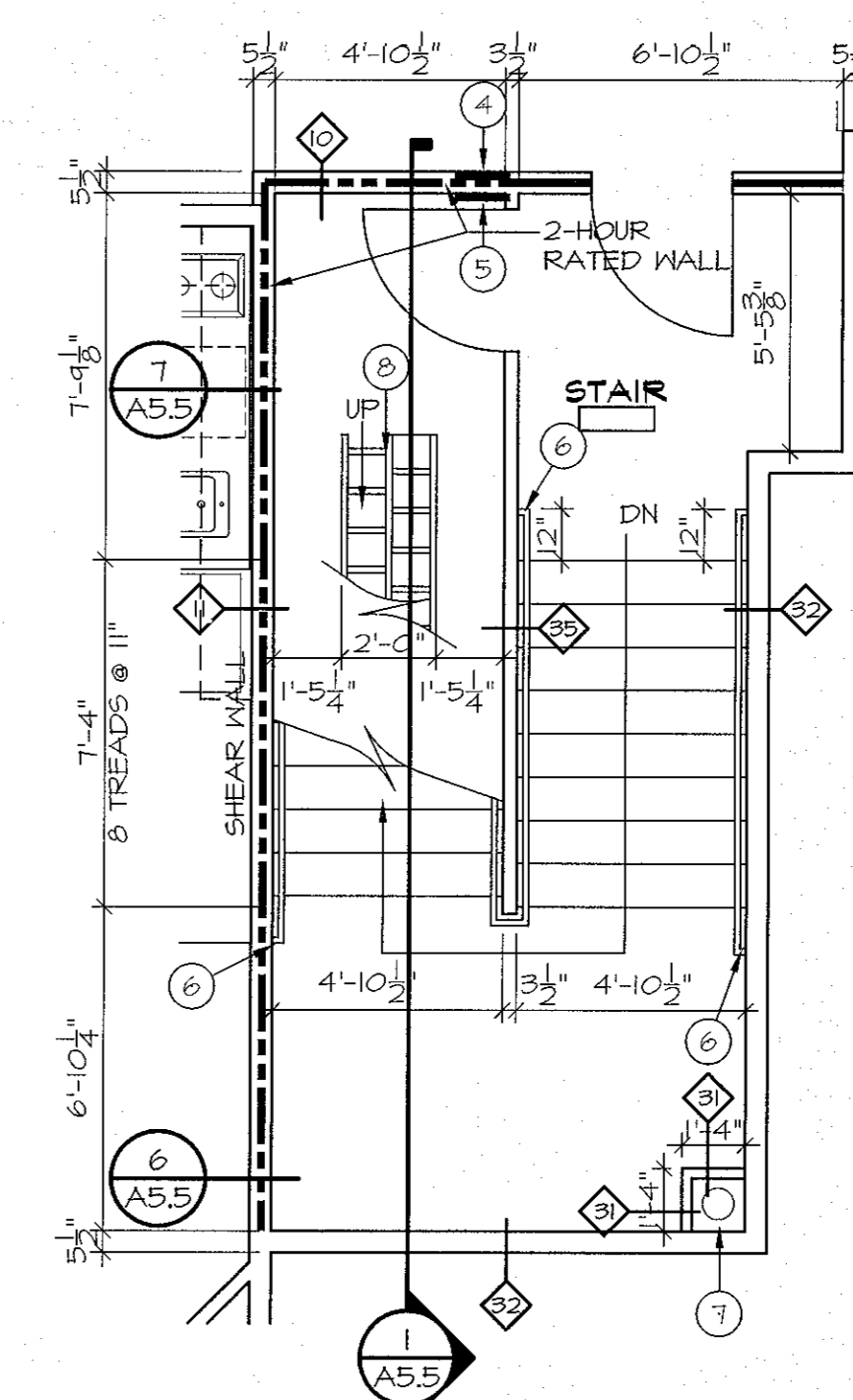
D FIRST FLOOR STAIR PLAN
SCALE: 1/4" = 1'-0"



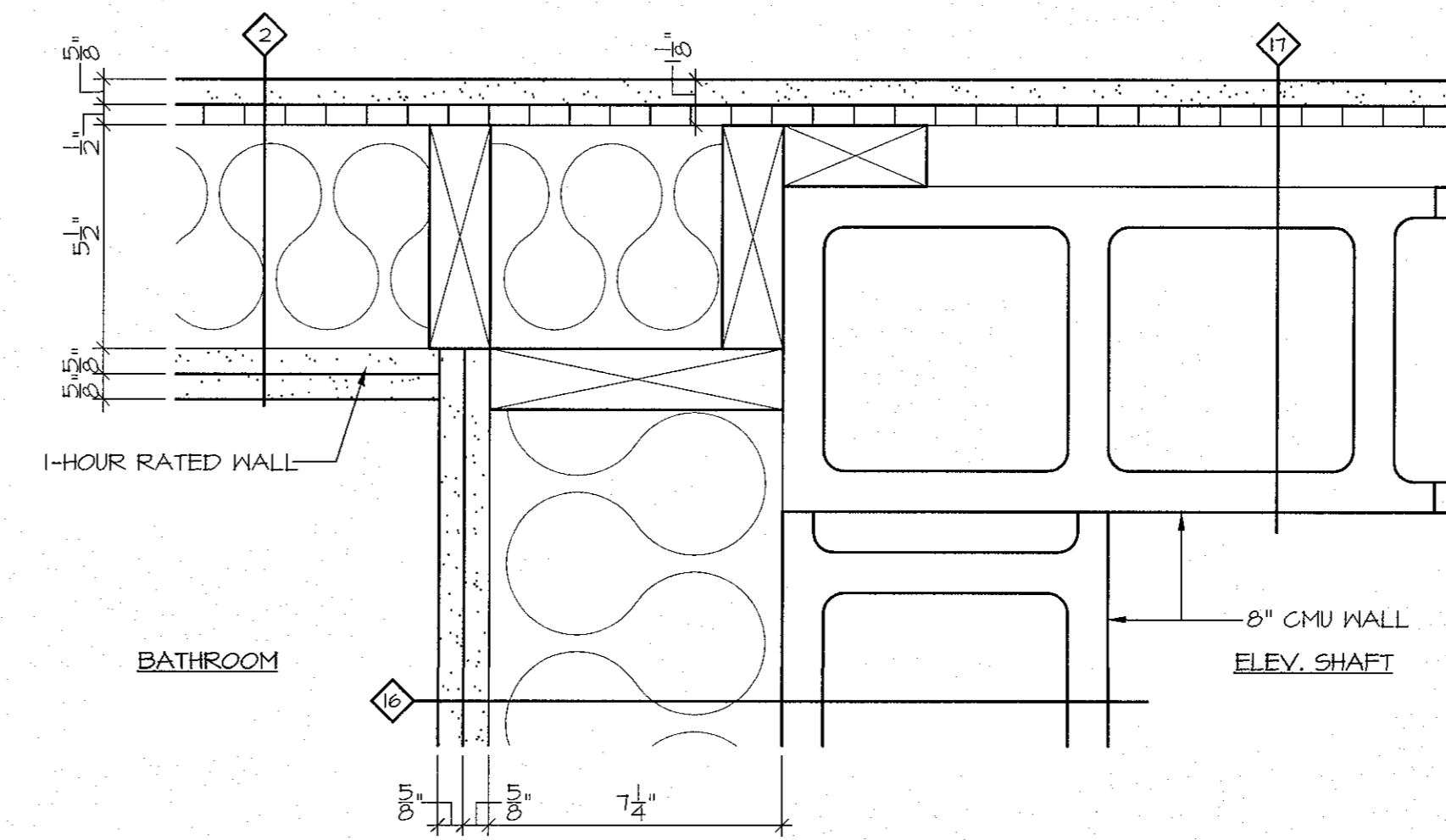
E SECOND FLOOR STAIR PLAN
SCALE: 1/4" = 1'-0"



F THIRD FLOOR STAIR PLAN
SCALE: 1/4" = 1'-0"

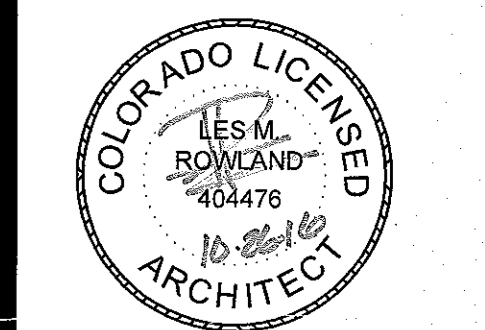


G FOURTH FLOOR STAIR PLAN
SCALE: 1/4" = 1'-0"



ELEV. WALL DETAIL
SCALE: 3" = 1'-0"

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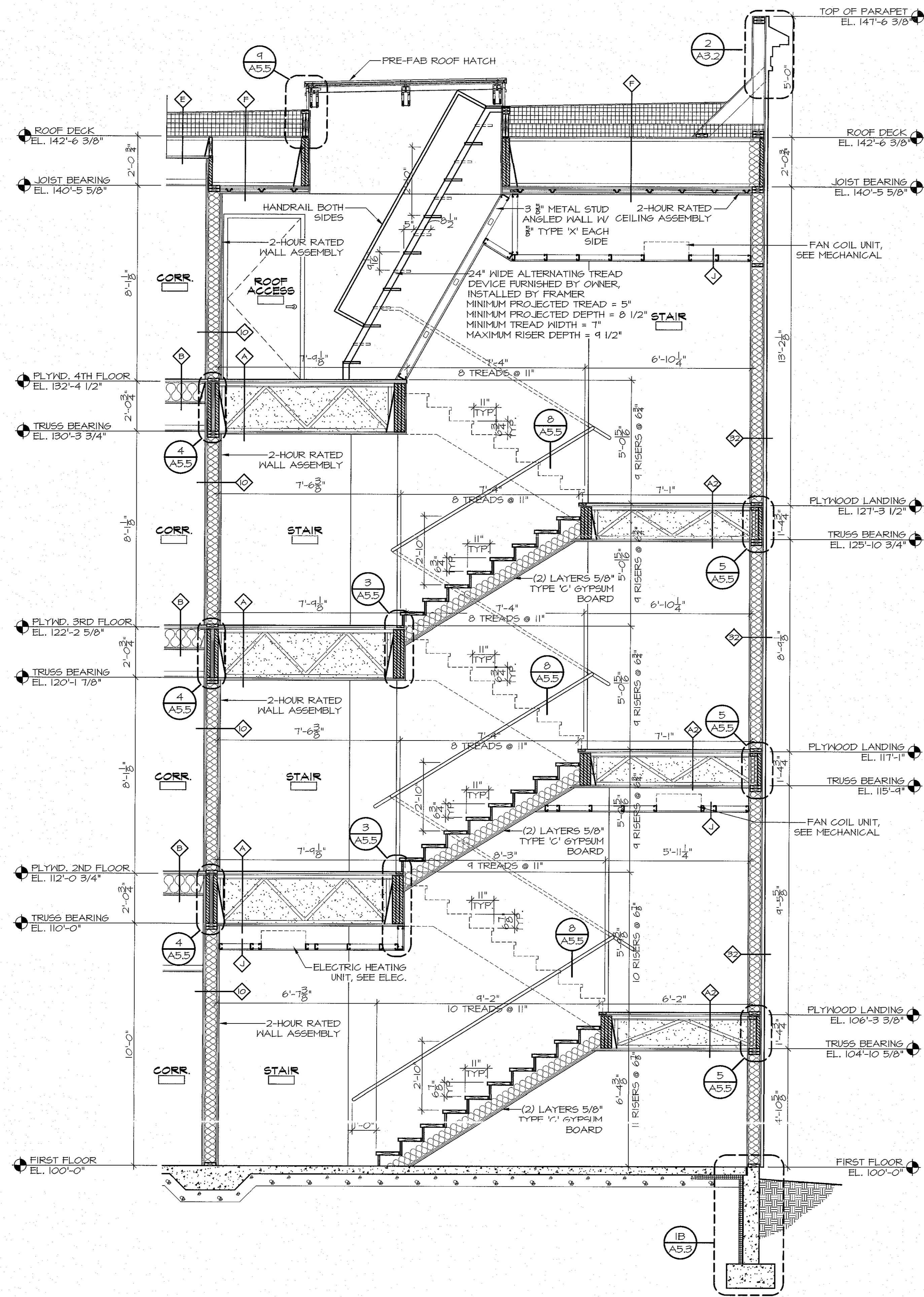


ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

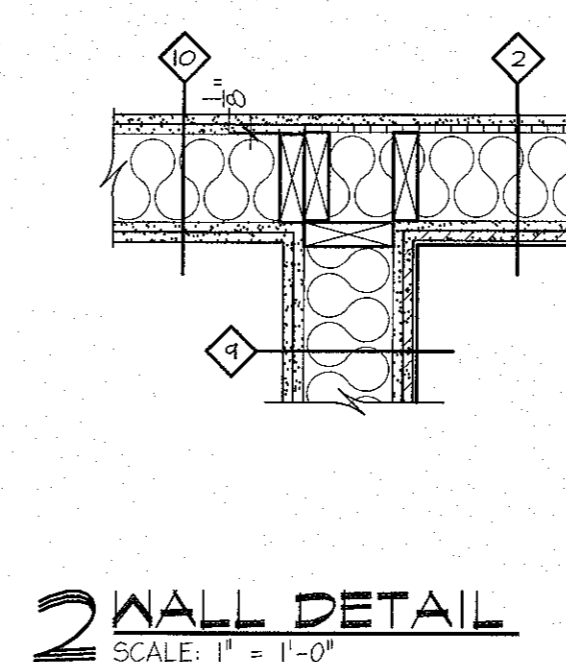
SHEET NAME:
Enlarged Elevator & Stair Plans

PROJECT NO.
W16006
DRAWN BY:
CDS
CHECKED BY:
WLP
DATE:
10.26.2016

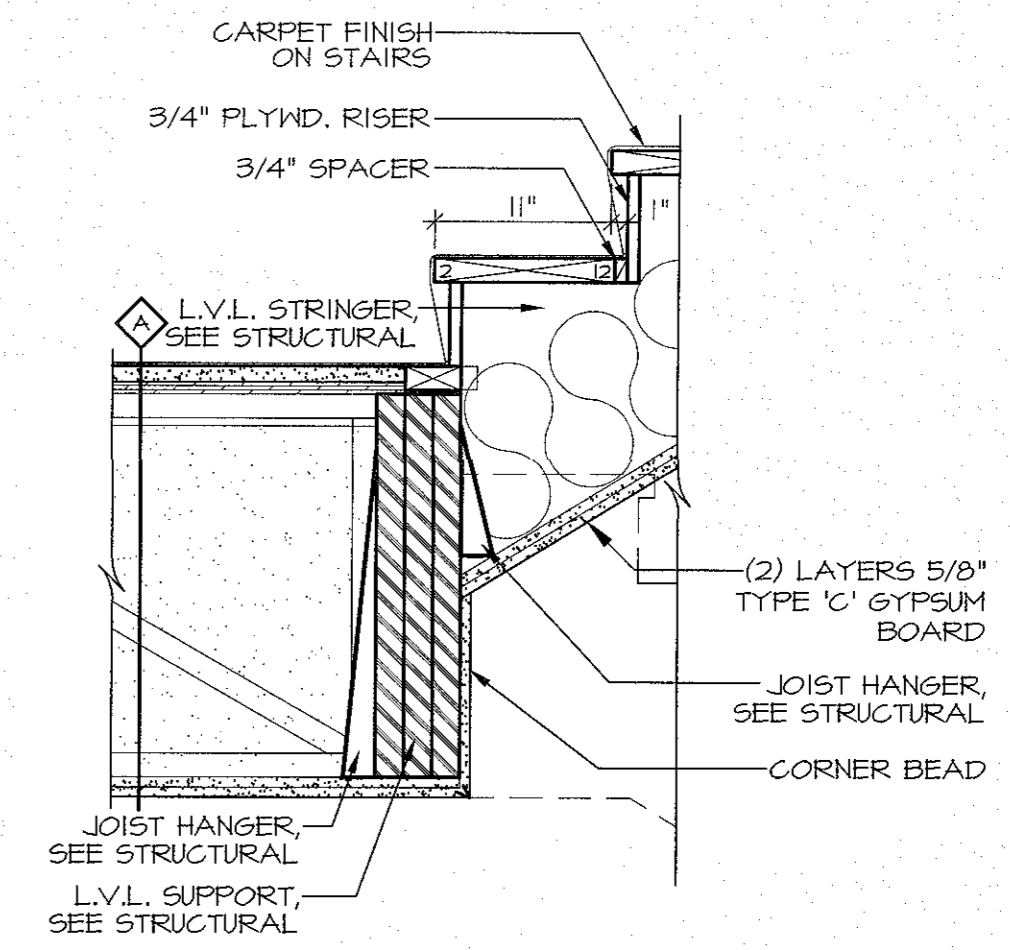
SHEET:
A5.4



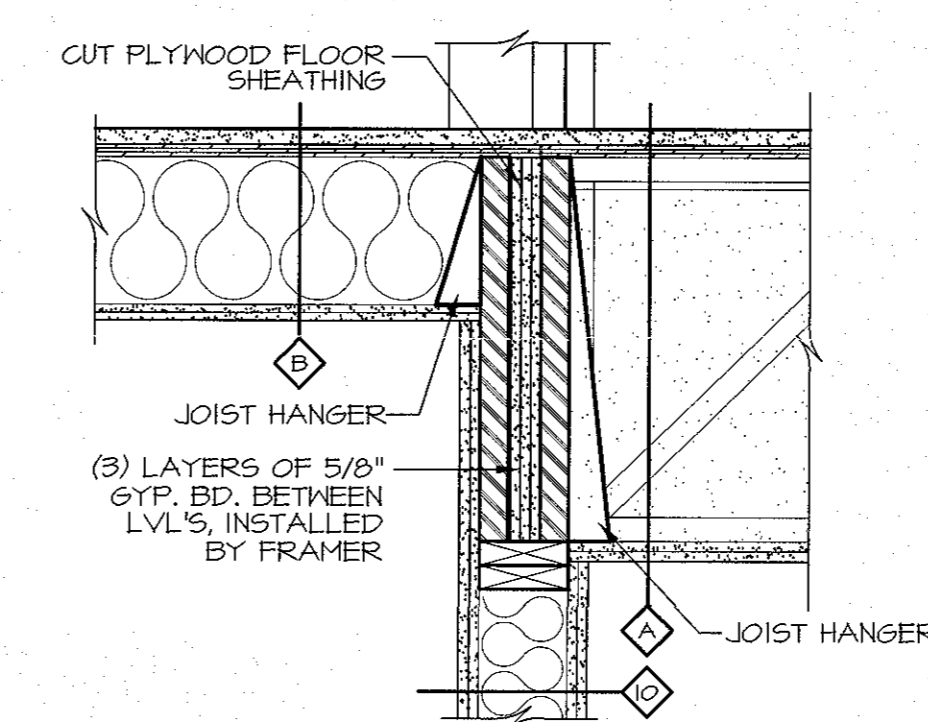
STAIR SECTION
SCALE: 3/8" = 1'-0"



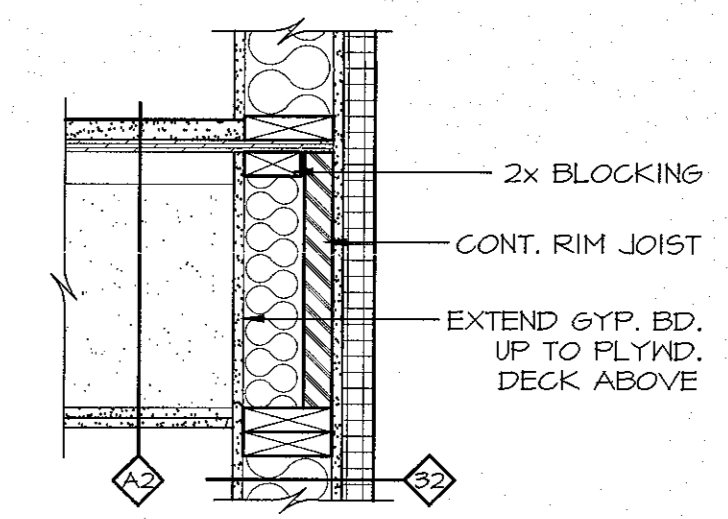
2 WALL DETAIL
SCALE: 1" = 1'-0"



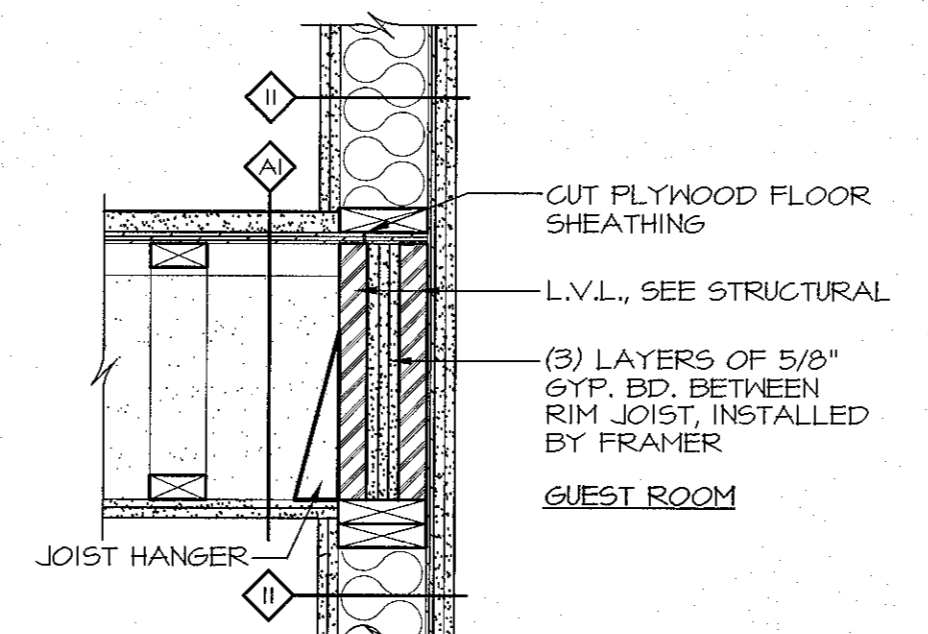
3 STAIR DETAIL
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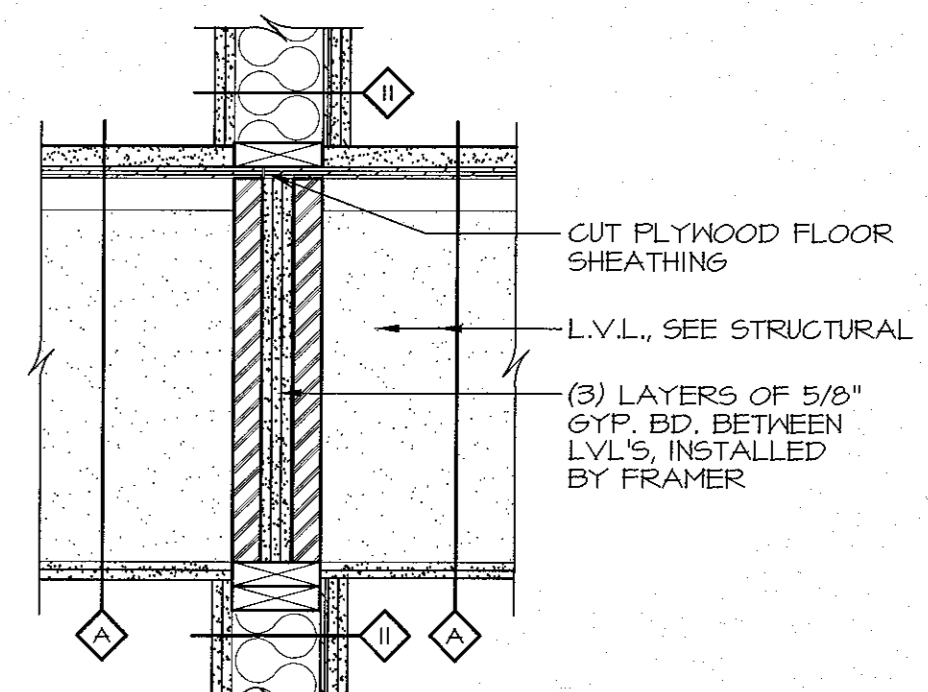
4 FRAMING DETAIL
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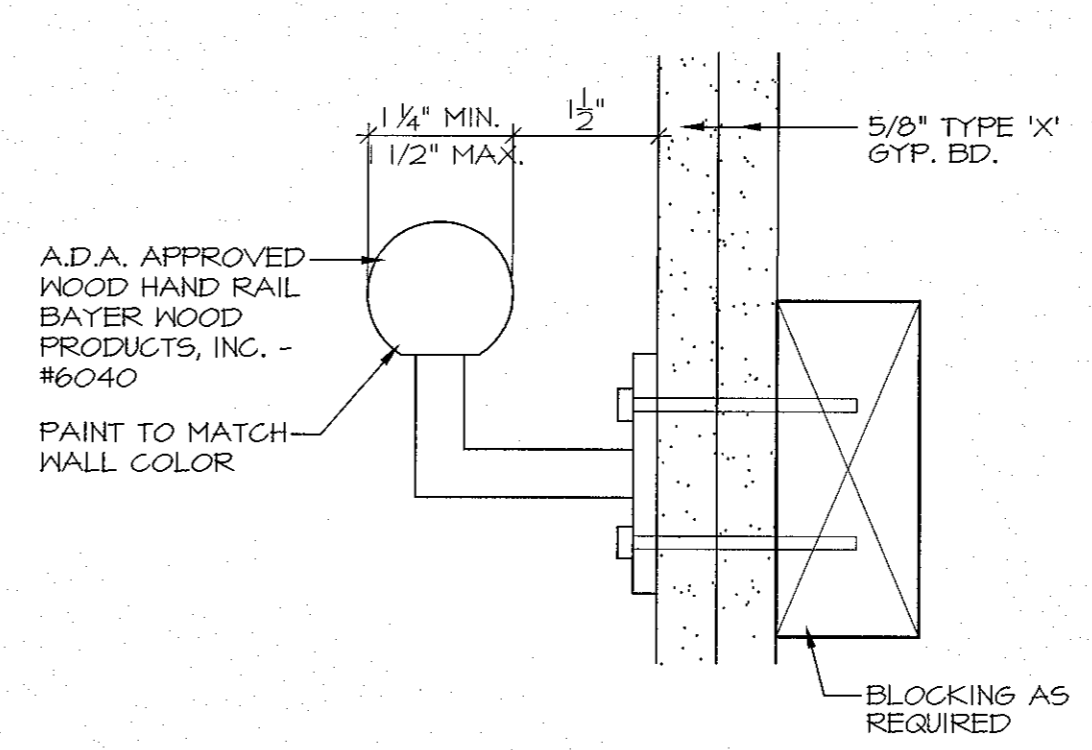
5 FRAMING DETAIL
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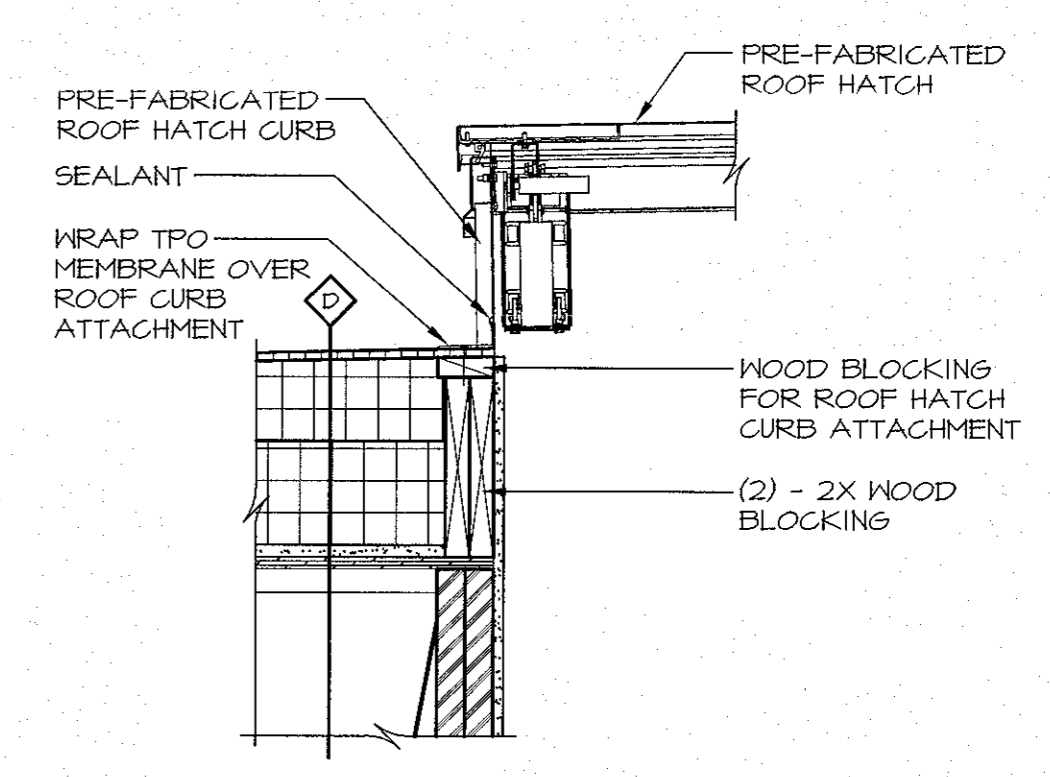
6 FRAMING DETAIL
SCALE: 1" = 1'-0"



7 FRAMING DETAIL
SCALE: 1" = 1'-0"

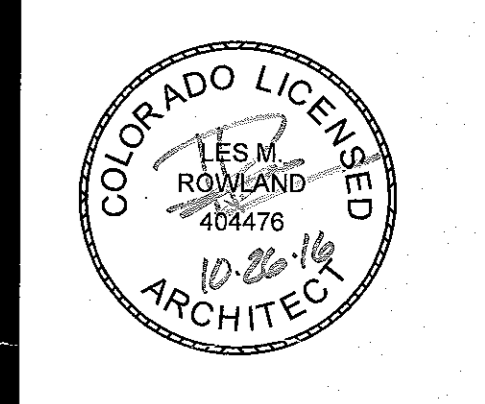


8 STAIR RAIL
SCALE: 6" = 1'-0"



9 ROOF HATCH DETAIL
SCALE: 1" = 1'-0"

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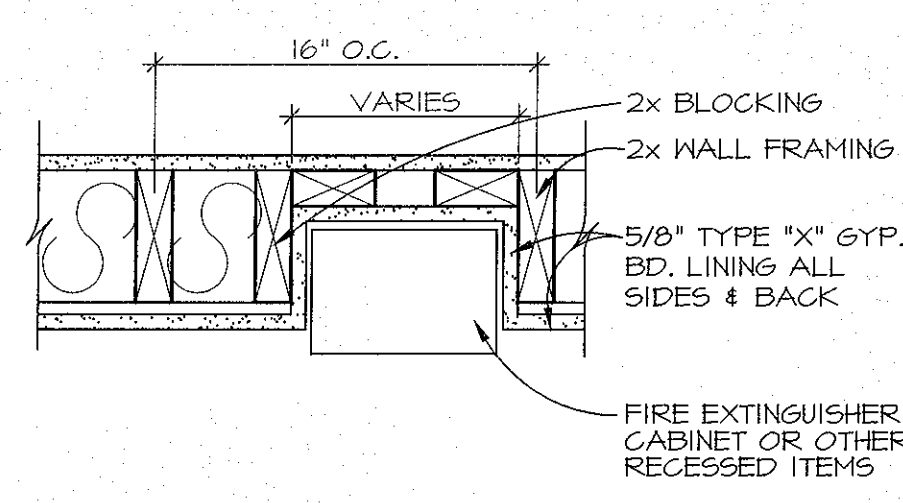


ARCHITECT:
LES M. ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

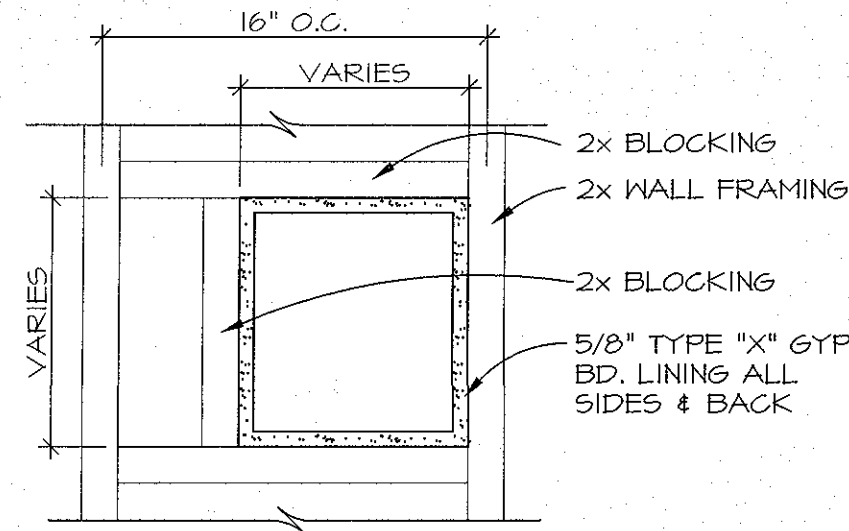
SHEET NAME:
Stair Sections and Details

PROJECT NO.
W16006
DRAWN BY:
CDS
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WLP
DATE:
10.26.2016

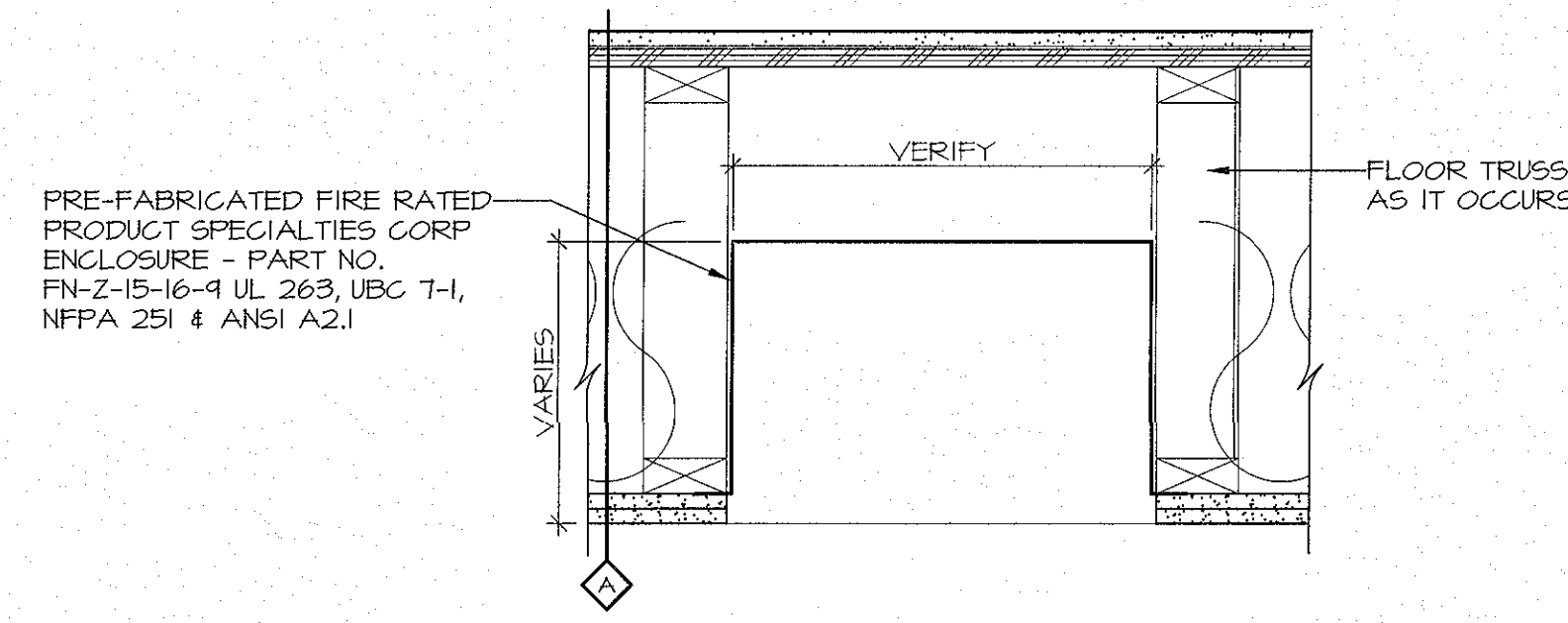
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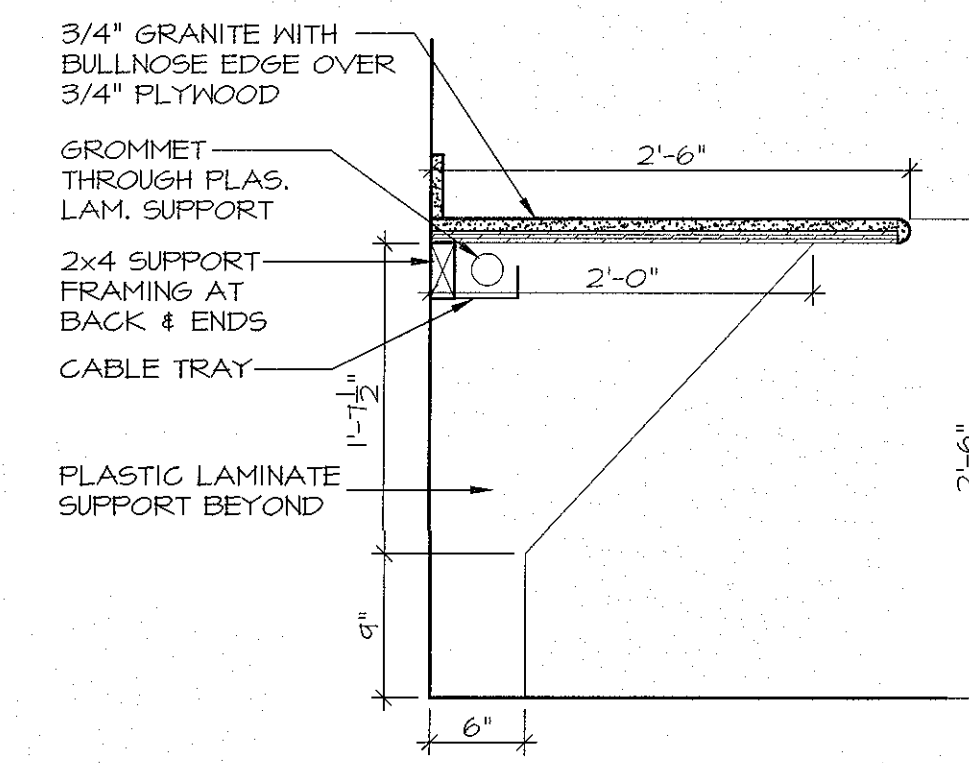
FRAMER TO PRE-ROCK
ONE HOUR RATED
WALL PENETRATIONS - PLAN
1 RATED RECESS
SCALE: 1/2" = 1'-0"



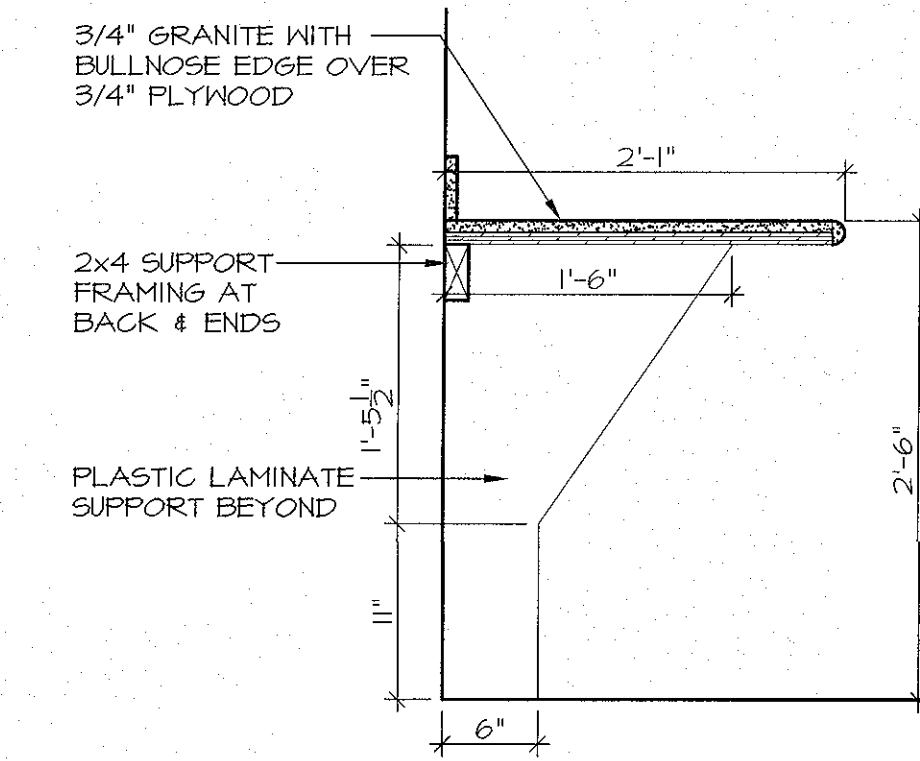
FRAMER TO PRE-ROCK
ONE HOUR RATED
WALL PENETRATIONS-ELEVATION
2 RATED RECESS
SCALE: 1/2" = 1'-0"



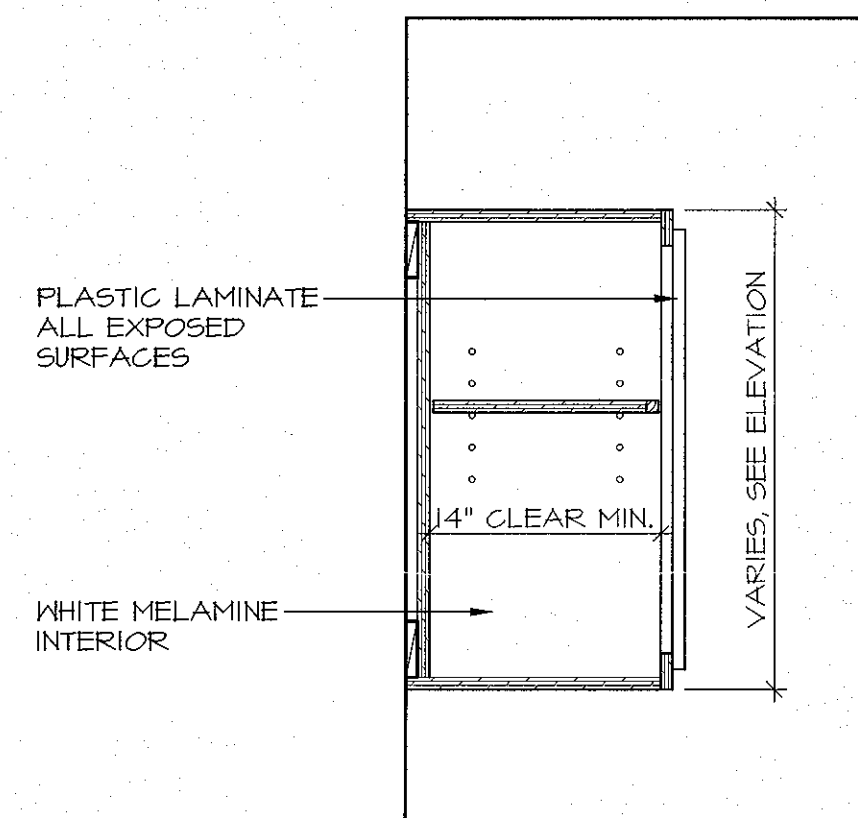
CEILING PENETRATIONS
3 RATED RECESS
SCALE: 1/2" = 1'-0"



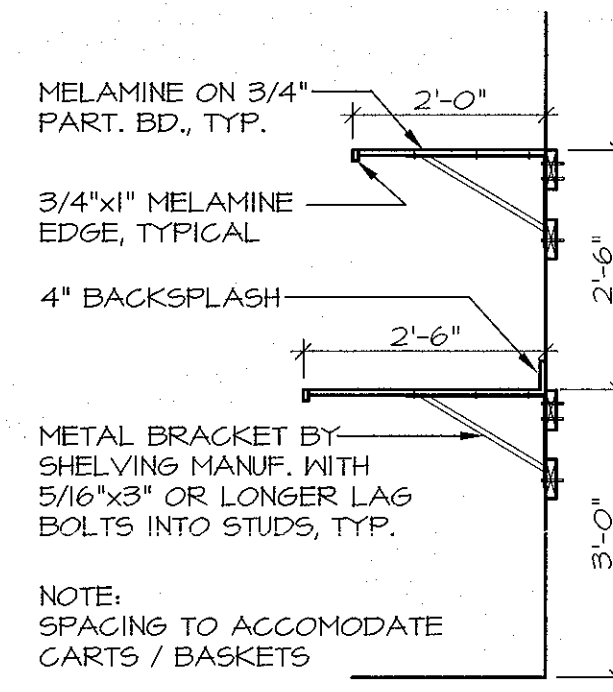
4 COUNTER SECTION
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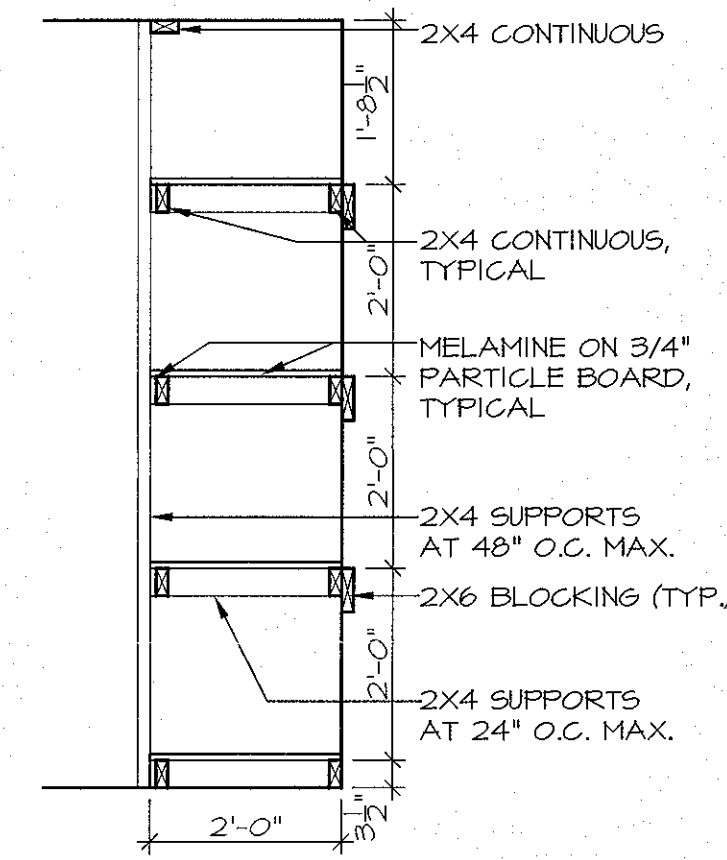
5 COUNTER SECTION
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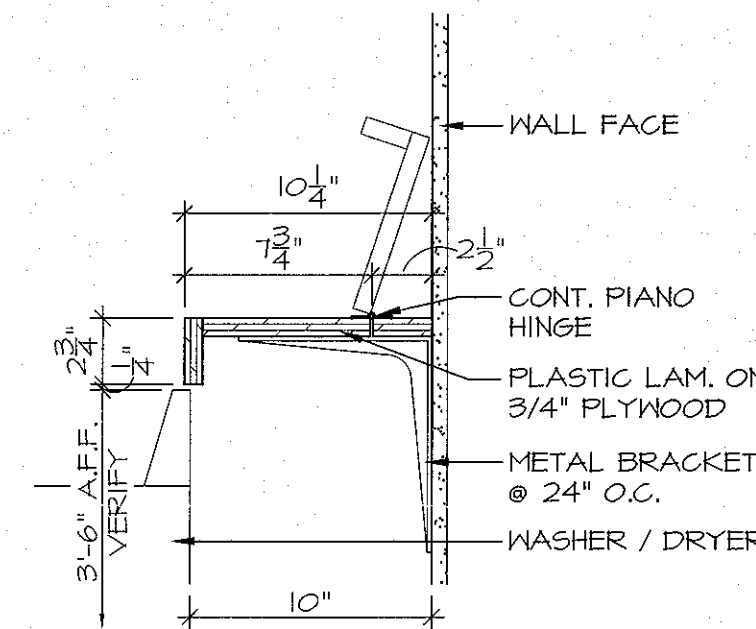
6 CABINET SECTION
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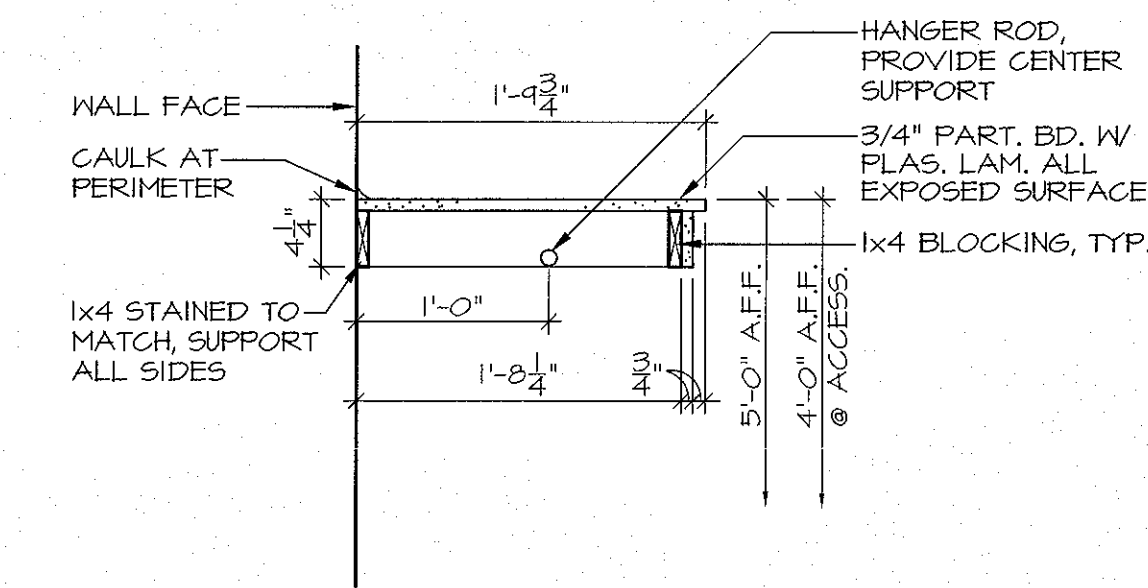
7 SHELVING SECTION
SCALE: 1/2" = 1'-0"



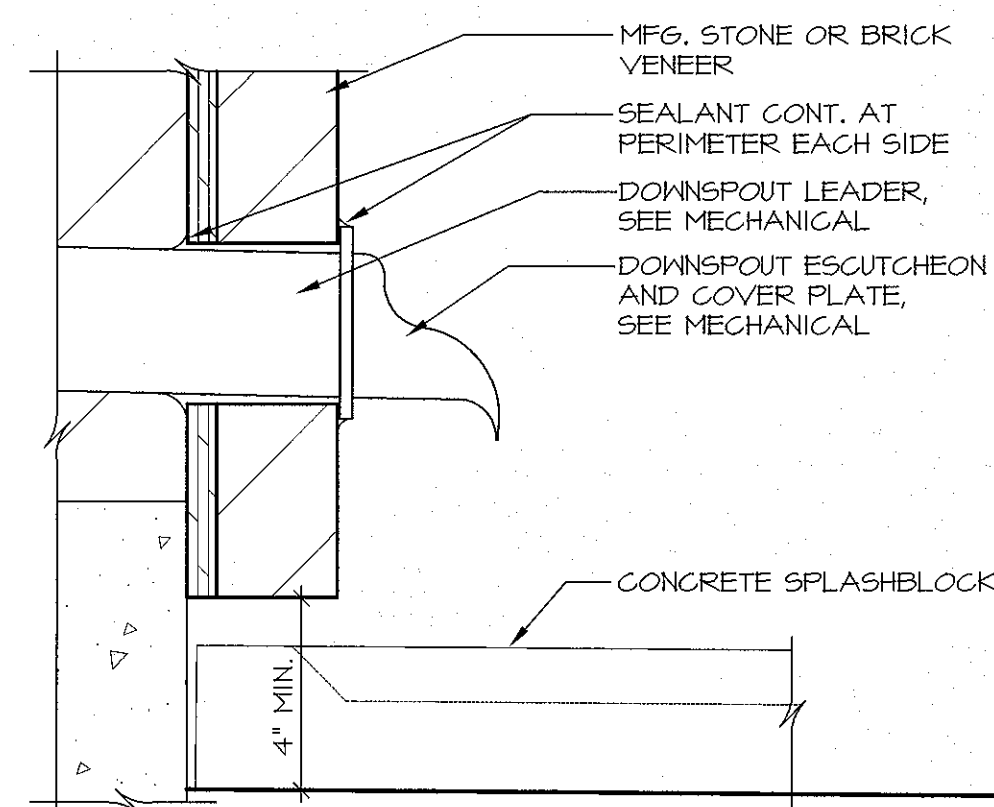
8 SHELVING SECTION
SCALE: 1/2" = 1'-0"



PROVIDE BLOCKING AS REQUIRED
9 SHELF DETAIL
SCALE: 1/2" = 1'-0"

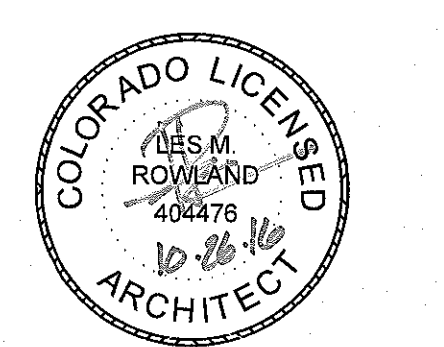


PROVIDE BLOCKING AS REQUIRED
10 SHELF DETAIL
SCALE: 1" = 1'-0"



11 ROOF DRAIN AND OVERFLOW NOZZLE DETAIL
SCALE: 3" = 1'-0"

CANDLEWOOD SUITES
Pueblo, CO
PROJ. MGR.
PRO GROUP INC.
209 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

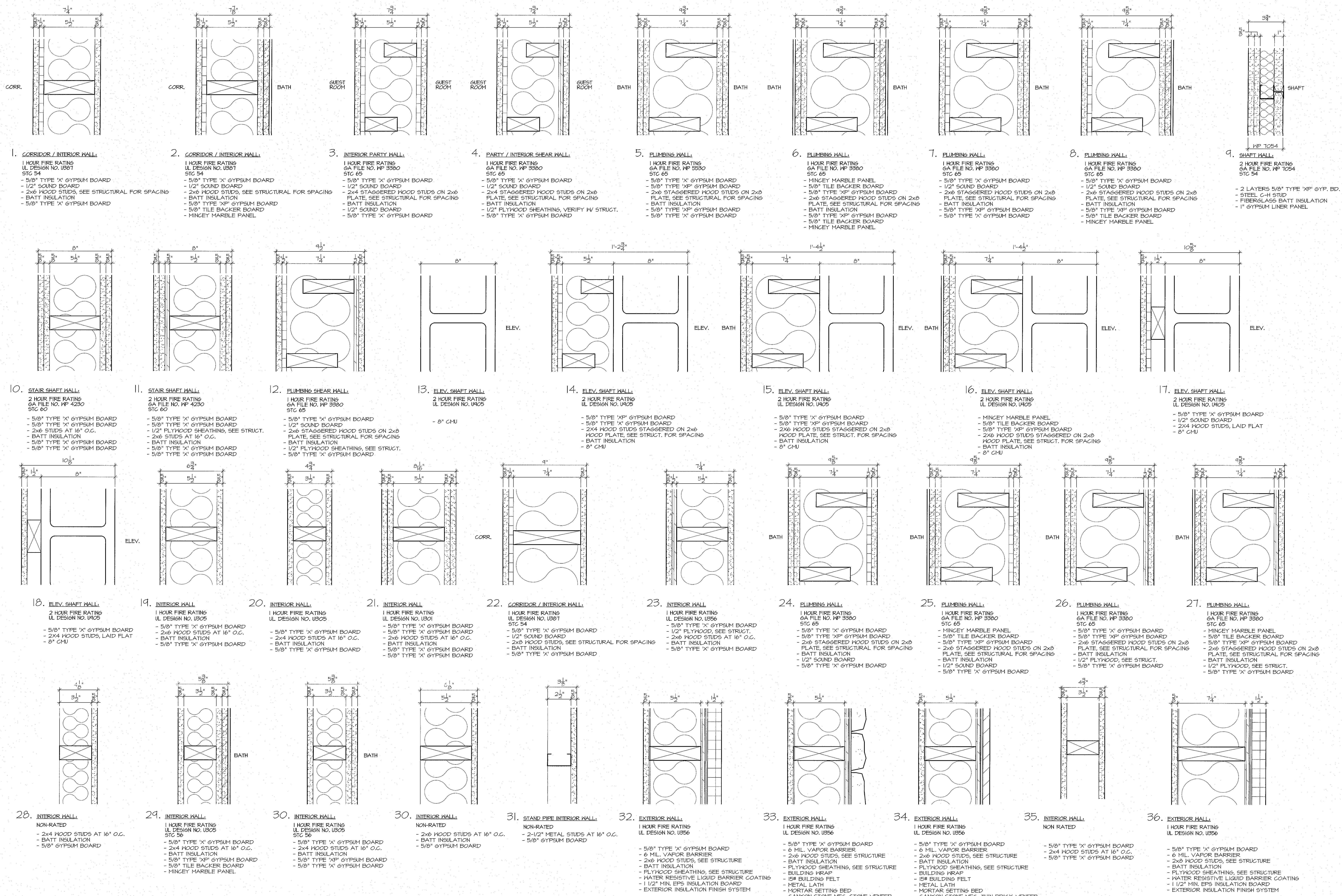


ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

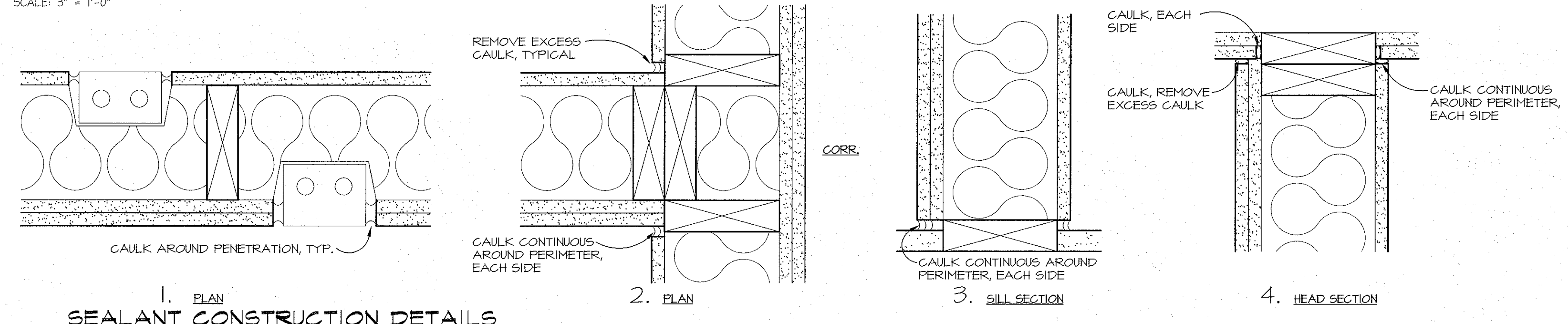
SHEET NAME:
Miscellaneous Details

PROJECT NO.
W16006
DRAWN BY:
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DATE:
10.26.2016
SHEET:

A6.1

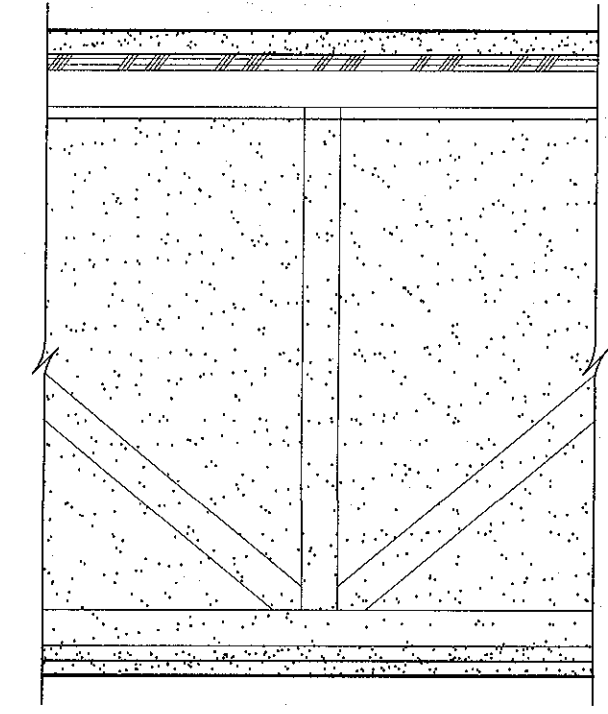


WALL TYPES
SCALE: 3" = 1'-0"



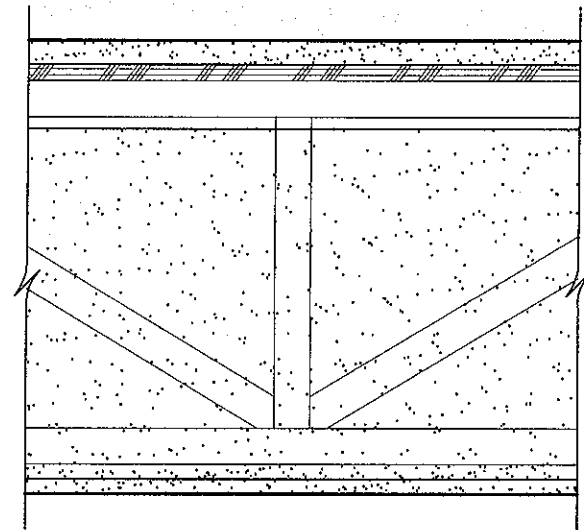
GENERAL NOTES:
1. USE TYPE 'XP' GYP. BD. AT BATHROOMS, RESTROOMS, LAUNDRY, GUEST LAUNDRY, MAIN MECHANICAL ROOM, AND JANITORS.
2. USE 5/8" TYPE 'X' DENSIFIED TILE BACKER SHEATHING AT CERAMIC TILE LOCATIONS.

PROJECT NO.
W16006
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WLP
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10.26.2016
SHEET:



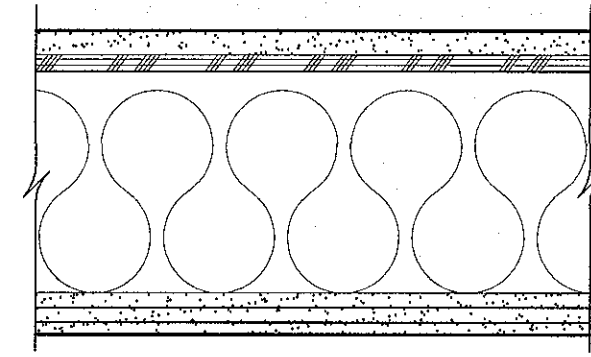
A. FLOOR / CEILING ASSEMBLY:

- 1 HOUR FIRE RATING
- 6A FILE NO. FC 5511
- STC 66
- 1" CEMENTITIOUS UNDERLAMENT
- 3/4" T&G PLYWOOD SUBFLOORING
- PRE-ENGINEERED FLOOR TRUSSES
- SEE STRUCT.
- FULL THICKNESS FIBERGLASS INSULATION
- 5/8" TYPE 'X' GYPSUM BOARD
- 5/8" TYPE 'X' GYPSUM BOARD



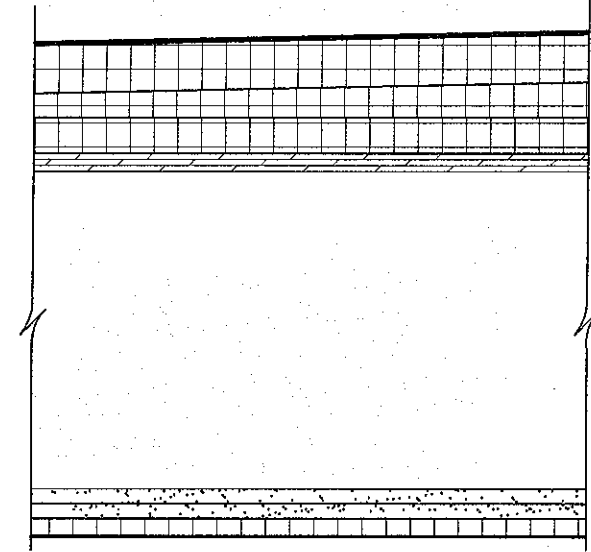
A2. STAIR LANDING FLOOR / CEILING ASSEMBLY:

- 1 HOUR FIRE RATING
- 6A FILE NO. FC 5511
- 1" CEMENTITIOUS UNDERLAMENT
- 3/4" T&G PLYWOOD SUBFLOORING
- PRE-ENGINEERED FLOOR TRUSSES
- SEE STRUCT.
- FULL THICKNESS FIBERGLASS INSULATION
- 5/8" TYPE 'X' GYPSUM BOARD
- 5/8" TYPE 'X' GYPSUM BOARD



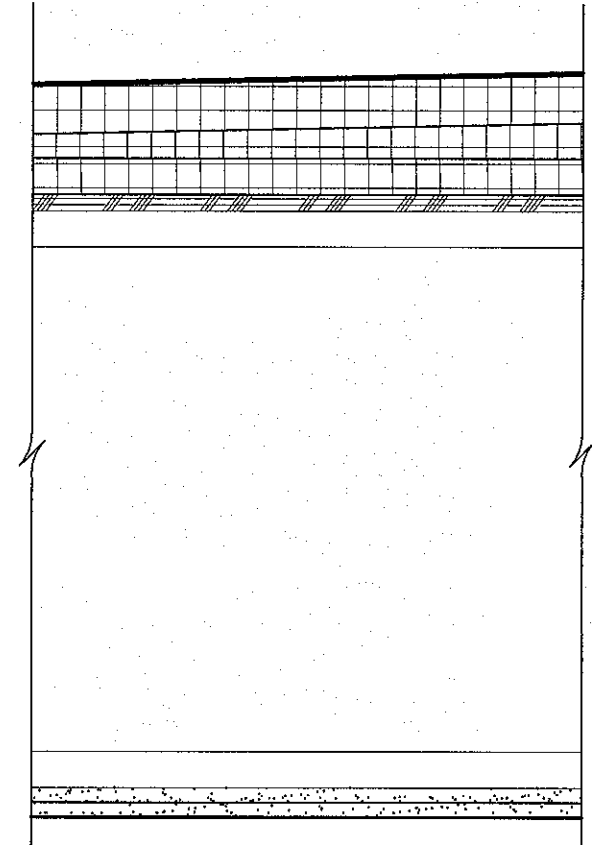
B. CORRIDOR / CEILING ASSEMBLY:

- 1 HOUR FIRE RATING
- 6A FILE NO. FC 5406
- STC 55-51
- 1" CEMENTITIOUS UNDERLAMENT
- 3/4" T&G PLYWOOD SUBFLOORING
- 2x10 FRAMING, SEE STRUCTURAL
- FULL THICKNESS BATT INSULATION
- 5/8" TYPE 'X' GYPSUM BOARD
- 5/8" TYPE 'X' GYPSUM BOARD
- 1/2" TYPE 'X' GYPSUM BOARD



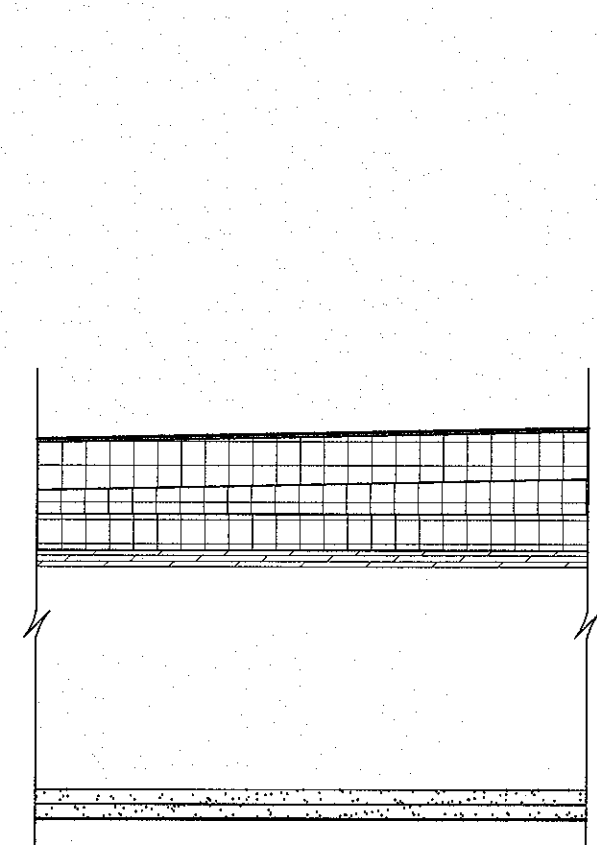
C. ROOF / CEILING ASSEMBLY:

- 1 HOUR FIRE RATING
- 6A FILE NO. RC 2601
- CLASS B ROOF ASSEMBLY
- 60 MIL. RHINO BOND T.P.O. ROOF MEMBRANE
- COMPOSITE ROOF INSULATION
- TOP LAYER: 2" SECURE SHIELD
- POLYISOCYANURATE BOARD
- MIDDLE LAYER: TAPERED POLYISOCYANURATE BOARD WITH 1/2" START
- BASE LAYER: 1 1/2" BASE POLYISOCYANURATE BOARD
- R VALUE TO EXCEED 20 AT DRAIN
- 3/4" CDX T&G PLYWOOD
- 2x12 FRAMING, SEE STRUCTURAL
- 5/8" TYPE 'X' GYPSUM BOARD
- 5/8" TYPE 'X' GYPSUM BOARD



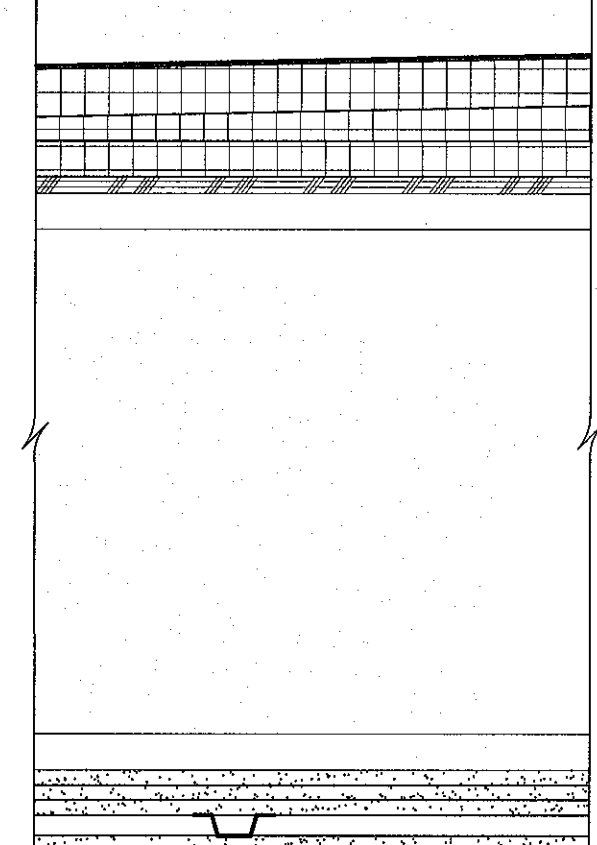
D. ROOF / CEILING ASSEMBLY:

- 1 HOUR FIRE RATING
- 2004 IBC, TABLE 1201(3) ITEM 2-H1
- CLASS B ROOF ASSEMBLY
- 60 MIL. RHINO BOND T.P.O. ROOF MEMBRANE
- COMPOSITE ROOF INSULATION
- TOP LAYER: 2" SECURE SHIELD
- POLYISOCYANURATE BOARD
- MIDDLE LAYER: TAPERED POLYISOCYANURATE BOARD WITH 1/2" START
- BASE LAYER: 1 1/2" BASE POLYISOCYANURATE BOARD
- R VALUE TO EXCEED 20 AT DRAIN
- 3/4" CDX T&G PLYWOOD
- PRE-ENGINEERED ROOF I-JOIST
- 5/8" TYPE 'X' GYPSUM BOARD
- 5/8" TYPE 'X' GYPSUM BOARD



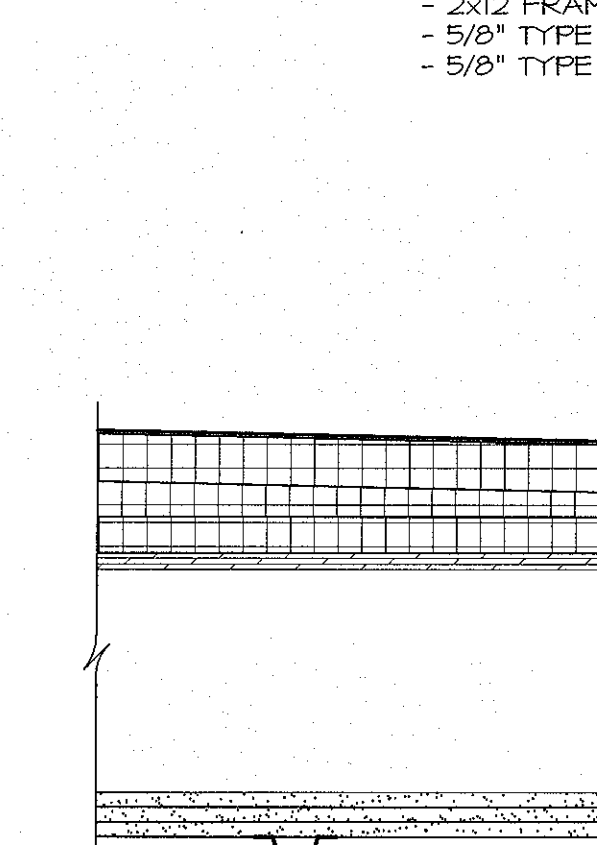
E. ROOF ASSEMBLY:

- 1 HOUR FIRE RATING
- 6A FILE NO. RC 2601
- CLASS B ROOF ASSEMBLY
- 60 MIL. RHINO BOND T.P.O. ROOF MEMBRANE
- COMPOSITE ROOF INSULATION
- TOP LAYER: 2" SECURE SHIELD
- POLYISOCYANURATE BOARD
- MIDDLE LAYER: TAPERED POLYISOCYANURATE BOARD WITH 1/2" START
- BASE LAYER: 1 1/2" BASE POLYISOCYANURATE BOARD
- R VALUE TO EXCEED 20 AT DRAIN
- 3/4" CDX T&G PLYWOOD
- 2x10 WOOD FRAMING, SEE STRUCTURAL
- 5/8" TYPE 'X' GYPSUM BOARD
- 5/8" TYPE 'X' GYPSUM BOARD



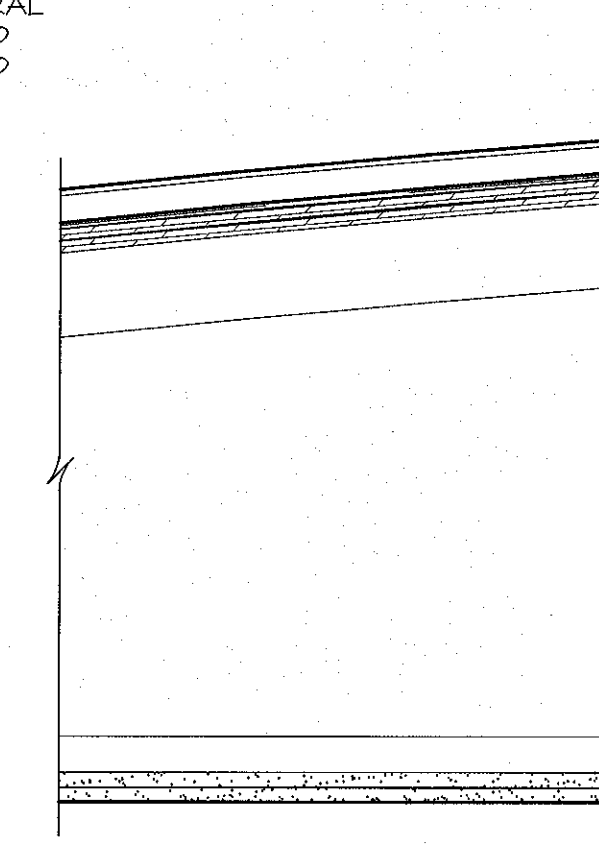
F. ROOF / CEILING ASSEMBLY:

- 2 HOUR FIRE RATING
- 6A FILE NO. RC 2780
- CLASS B ROOF ASSEMBLY
- 60 MIL. RHINO BOND T.P.O. ROOF MEMBRANE
- COMPOSITE ROOF INSULATION
- TOP LAYER: 2" SECURE SHIELD
- POLYISOCYANURATE BOARD
- MIDDLE LAYER: TAPERED POLYISOCYANURATE BOARD WITH 1/2" START
- BASE LAYER: 1 1/2" BASE POLYISOCYANURATE BOARD
- R VALUE TO EXCEED 20 AT DRAIN
- 3/4" CDX T&G PLYWOOD
- PRE-ENGINEERED ROOF I-JOIST
- 5/8" TYPE 'X' GYPSUM BOARD
- 5/8" TYPE 'X' GYPSUM BOARD
- HAT CHANNEL (25 GA. GALV.) @ 24" O.C.
- 5/8" TYPE 'X' GYPSUM BOARD



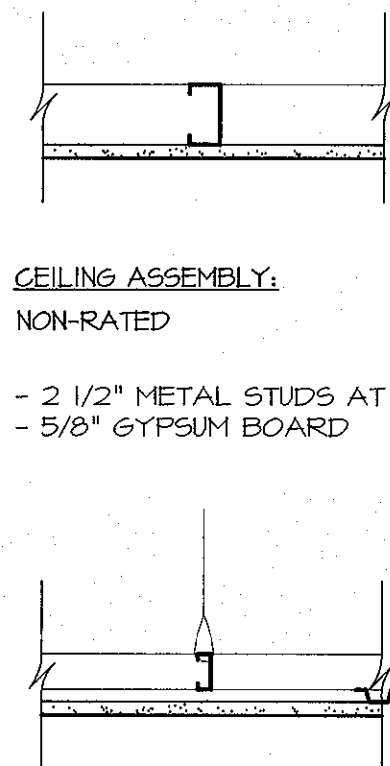
G. ELEV. SHAFT ROOF ASSEMBLY:

- 2 HOUR FIRE RATING
- 6A FILE NO. RC 2750
- CLASS B ROOF ASSEMBLY
- 60 MIL. RHINO BOND T.P.O. ROOF MEMBRANE
- COMPOSITE ROOF INSULATION
- TOP LAYER: 2" SECURE SHIELD
- POLYISOCYANURATE BOARD
- MIDDLE LAYER: TAPERED POLYISOCYANURATE BOARD WITH 1/2" START
- BASE LAYER: 1 1/2" BASE POLYISOCYANURATE BOARD
- R VALUE TO EXCEED 20 AT DRAIN
- 3/4" CDX T&G PLYWOOD
- PRE-ENGINEERED ROOF I-JOIST
- FULL THICKNESS FIBERGLASS BATT INSULATION
- 5/8" TYPE 'X' GYPSUM BOARD
- 5/8" TYPE 'X' GYPSUM BOARD
- HAT CHANNEL (25 GA. GALV.) @ 24" O.C.
- 5/8" TYPE 'X' GYPSUM BOARD



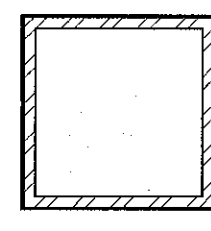
H. ROOF / CEILING ASSEMBLY:

- 1 HOUR FIRE RATING
- 6A FILE NO. RC 2601
- CLASS B ROOF ASSEMBLY
- PRE-FINISHED STANDING SEAM METAL ROOF
- 30 LB. FELT PAPER
- 1/2" CDX PLYWOOD, ROUTE BACKSIDE TO FORM CURVE
- 1/2" CDX PLYWOOD, ROUTE BACKSIDE TO FORM CURVE
- PRE-ENGINEERED ROOF TRUSSES
- 5/8" TYPE 'X' GYPSUM BOARD
- 5/8" TYPE 'X' GYPSUM BOARD



J. CEILING ASSEMBLY:

- NON-RATED
- 2 1/2" METAL STUDS AT 24" O.C.
- 5/8" GYPSUM BOARD

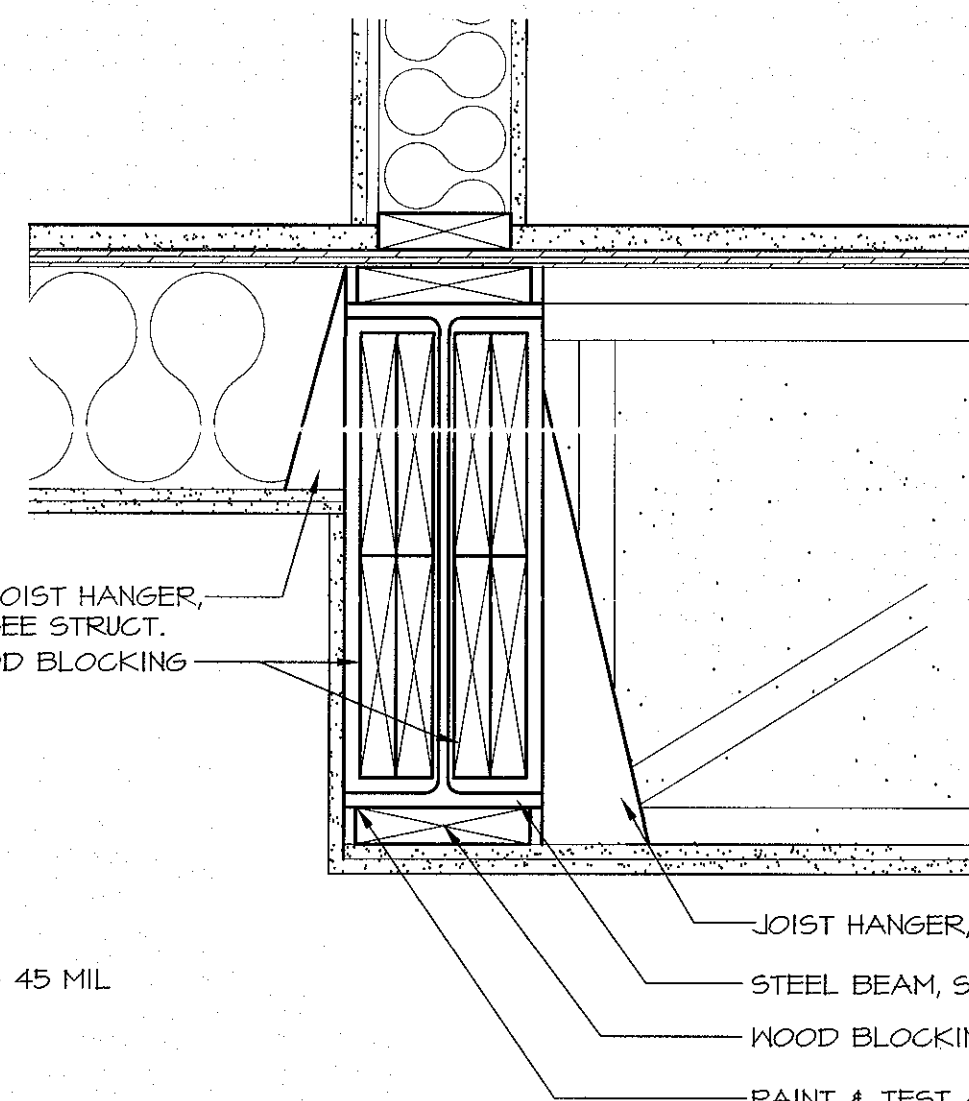


K. CEILING ASSEMBLY:

- NON-RATED
- SUSPENDED METAL CARRYING SYSTEM
- 5/8" GYPSUM BOARD

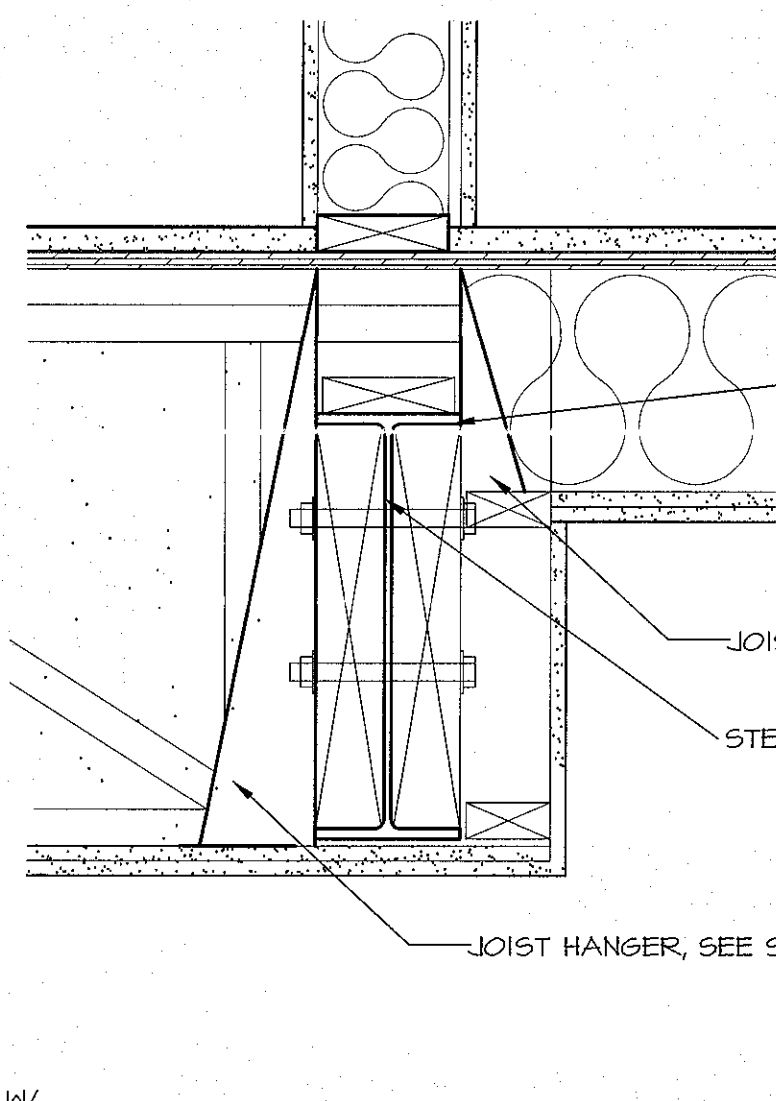
L. COLUMN COVER:

- 1 HOUR FIRE RATING
- TUBE STEEL COLUMN, SEE STRUCTURAL
- INTUMESCENT PAINT
- SOUTHWEST RESEARCH INSTITUTE REQUIRED INTUMESCENT MIL. THICKNESS - 45 MIL PER CONTEGO CALCULATIONS
- TEST BASED ON ASTM E114 & UL 263 (PER THE BLDG. CODE)



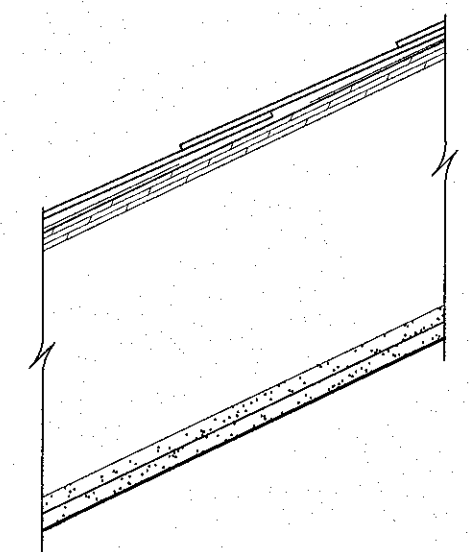
M. STEEL BEAM COVER:

- 1 HOUR FIRE RATING
- SOUTHWEST RESEARCH INSTITUTE REQUIRED INTUMESCENT MIL. THICKNESS - 20 MIL PER CONTEGO CALCULATIONS
- TEST BASED ON ASTM E114 & UL 263 (PER THE BLDG. CODE)



MI. STEEL BEAM COVER:

- 1 HOUR FIRE RATING
- SOUTHWEST RESEARCH INSTITUTE REQUIRED INTUMESCENT MIL. THICKNESS - 20 MIL PER CONTEGO CALCULATIONS
- TEST BASED ON ASTM E114 & UL 263 (PER THE BLDG. CODE)



N. GAZERO ROOF ASSEMBLY:

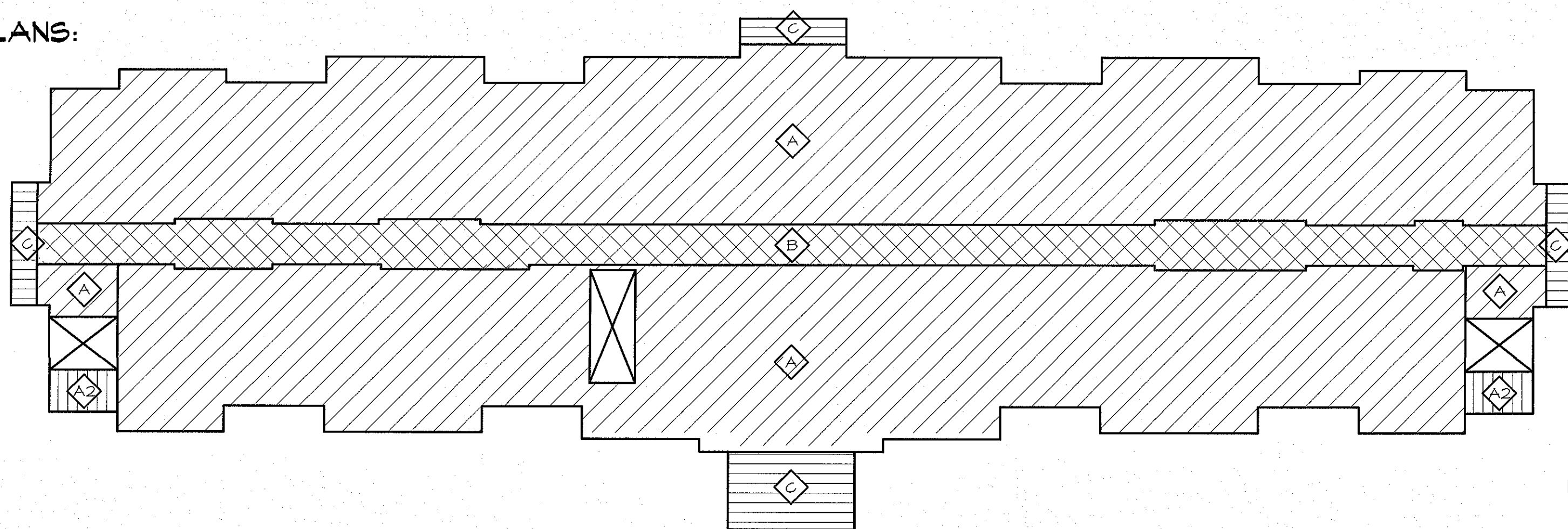
- 1 HOUR FIRE RATING
- 6A FILE NO. RC 2601
- ASPHALT SHINGLES ON 15# FELT PAPER
- 5/8" CDX T&G PLYWOOD OR 5/8" O.S.B. DECK
- 2x10 JOIST, SEE STRUCTURAL
- 5/8" TYPE 'X' GYPSUM BOARD
- 5/8" DENSGLASS GOLD SHEATHING
- EIFS FINISH

GENERAL NOTES:

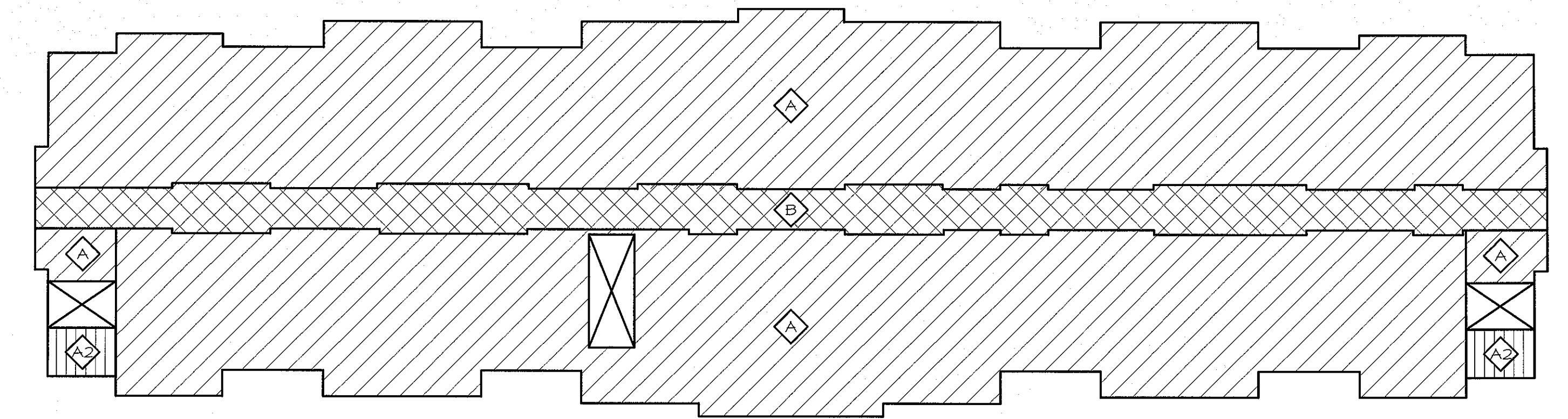
- CONTRACTOR AND SUPPLIER ARE RESPONSIBLE TO VERIFY ALL COMPONENTS OF TESTED ASSEMBLY LISTED.
- SUBCONTRACTORS ARE RESPONSIBLE TO SUPPLY ALL PENETRATION ASSEMBLIES TO ARCHITECT FOR APPROVAL.

ASSEMBLY PLANS:

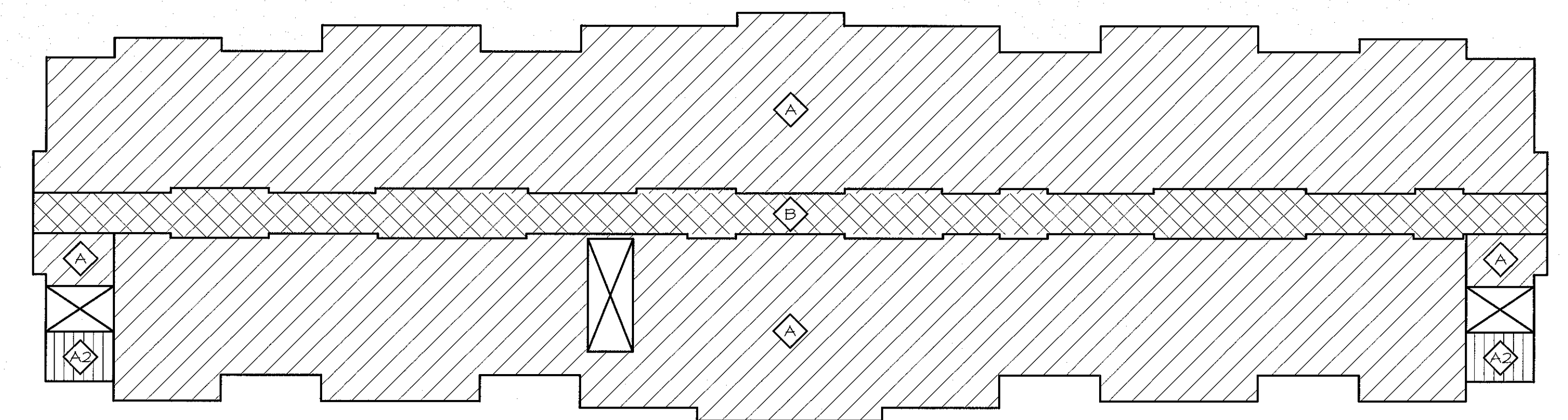
LEGEND	
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[Pattern]	TYPE A2 ASSEMBLY
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[Pattern]	TYPE H ASSEMBLY
[Pattern]	OPENING THROUGH CEILING ASSEMBLY



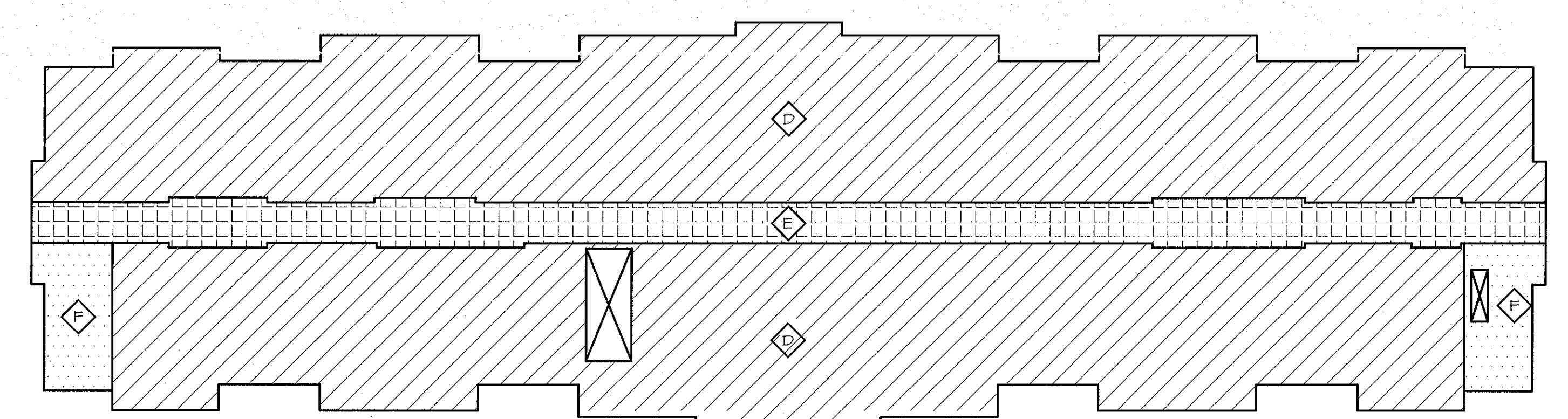
SECOND FLOOR ASSEMBLY PLAN
NOT TO SCALE



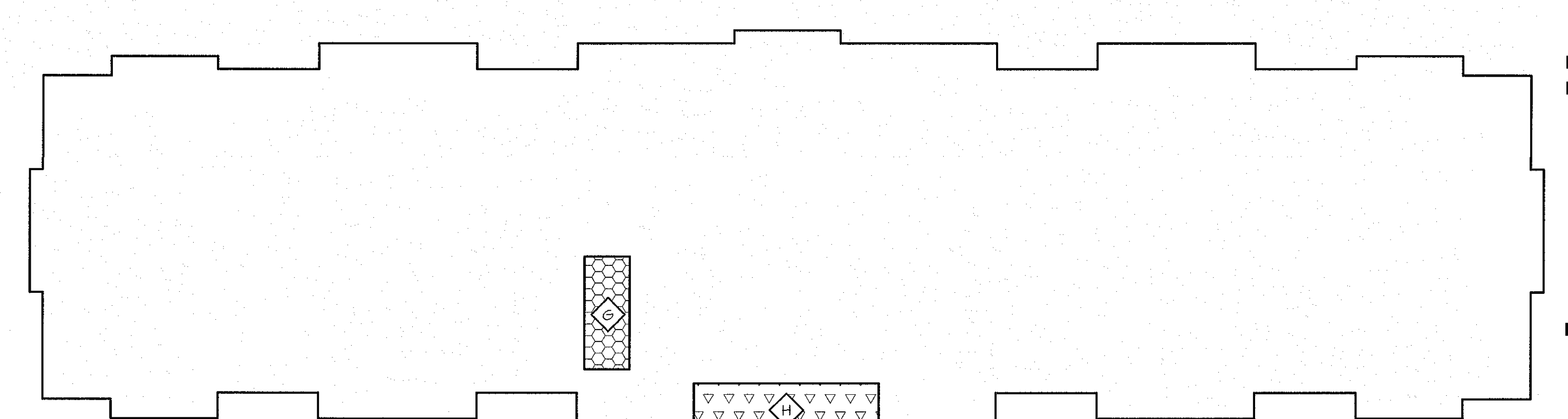
THIRD FLOOR ASSEMBLY PLAN
NOT TO SCALE



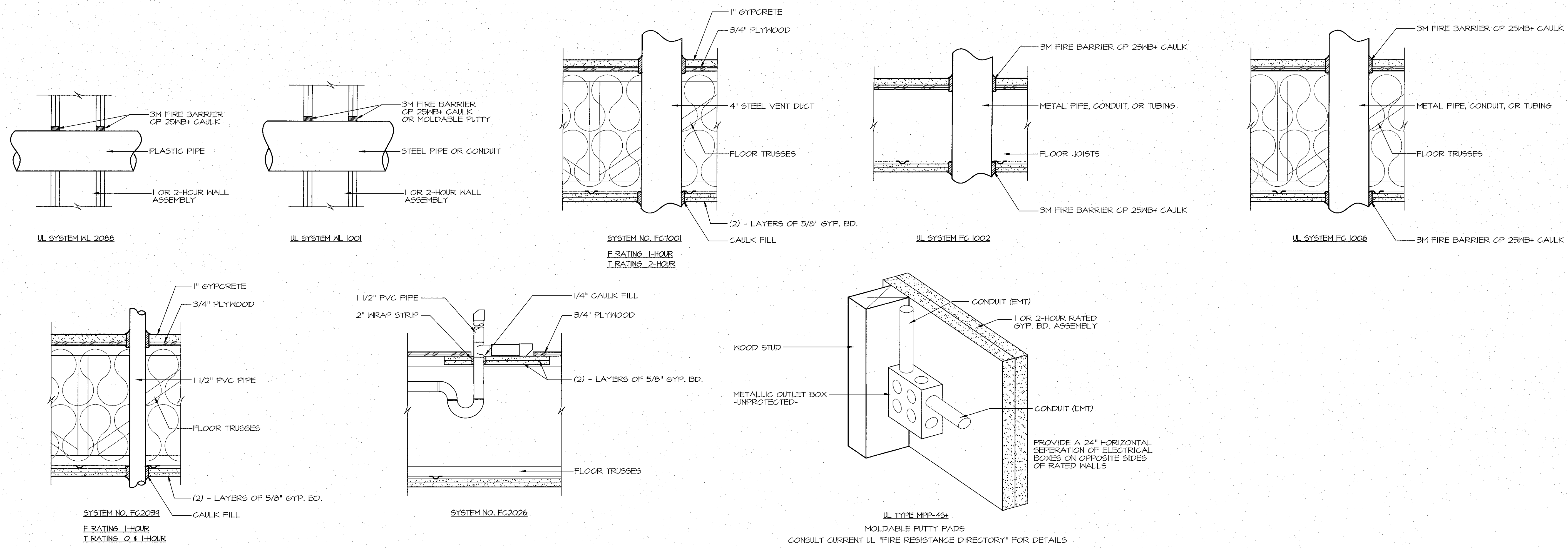
FOURTH FLOOR ASSEMBLY PLAN
NOT TO SCALE



ROOF ASSEMBLY PLAN
NOT TO SCALE

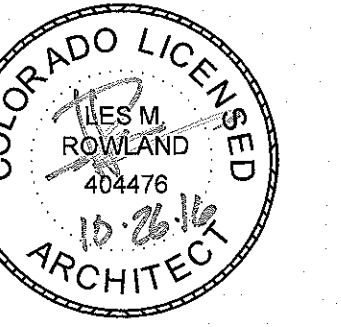


PENTHOUSE ASSEMBLY PLAN
NOT TO SCALE



PENETRATION ASSEMBLIES
SCALE: 1-1/2\"/>

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ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

SHEET NAME:

Fire Protection Assemblies

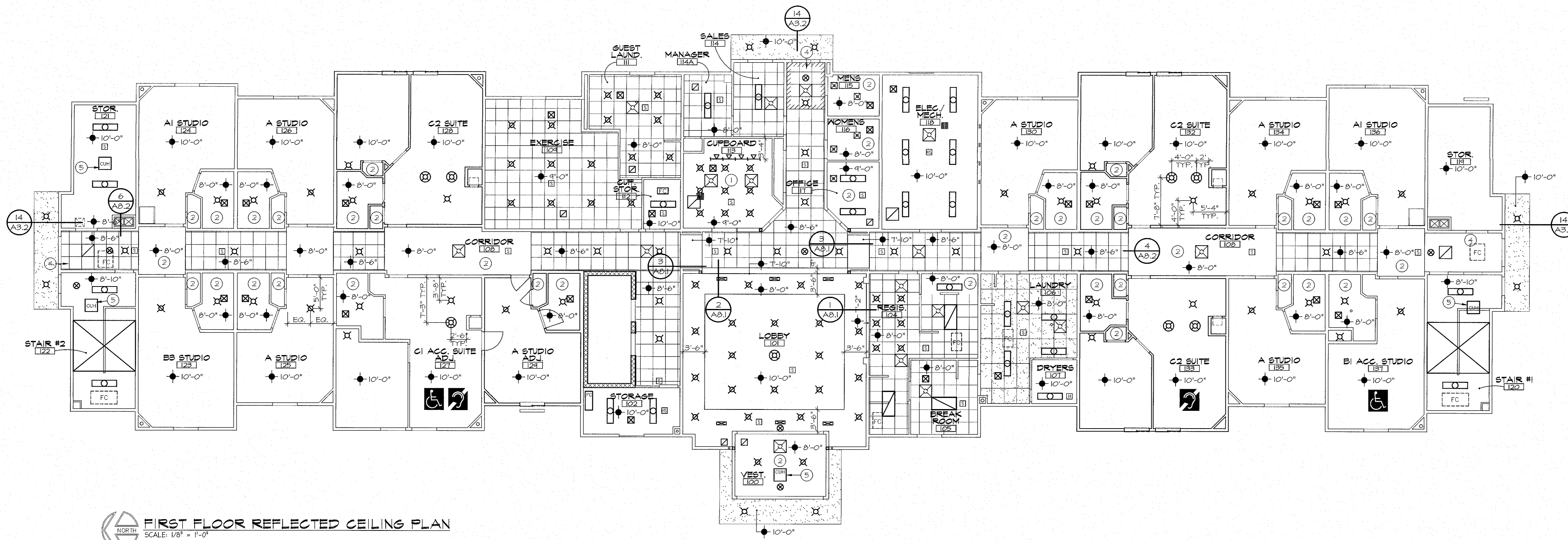
PROJECT NO.
W16006

DRAWN BY:
CDS

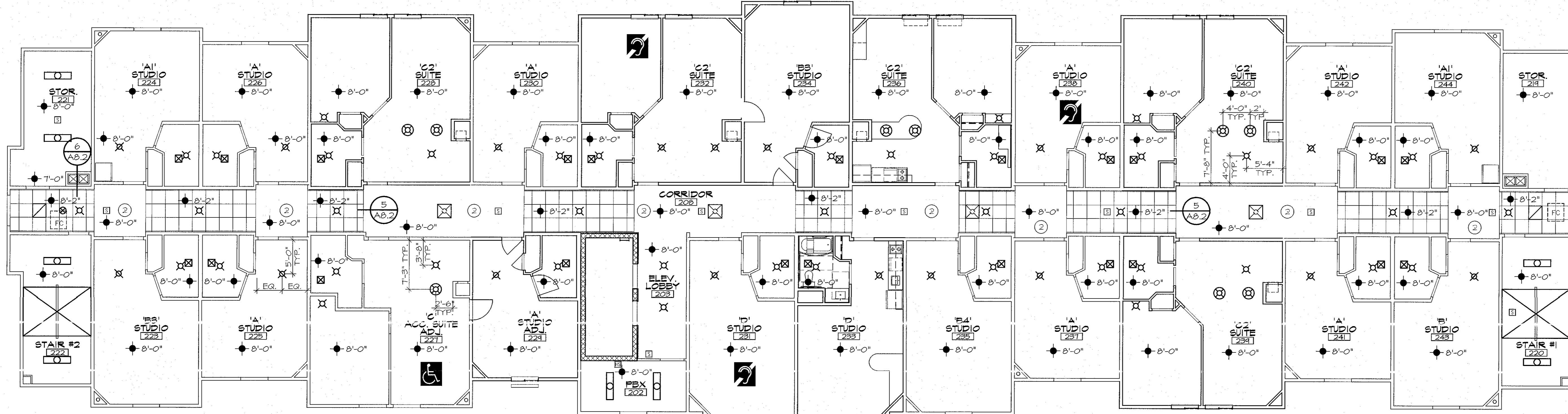
CHECKED BY:
WLP

DATE:
10.27.2016

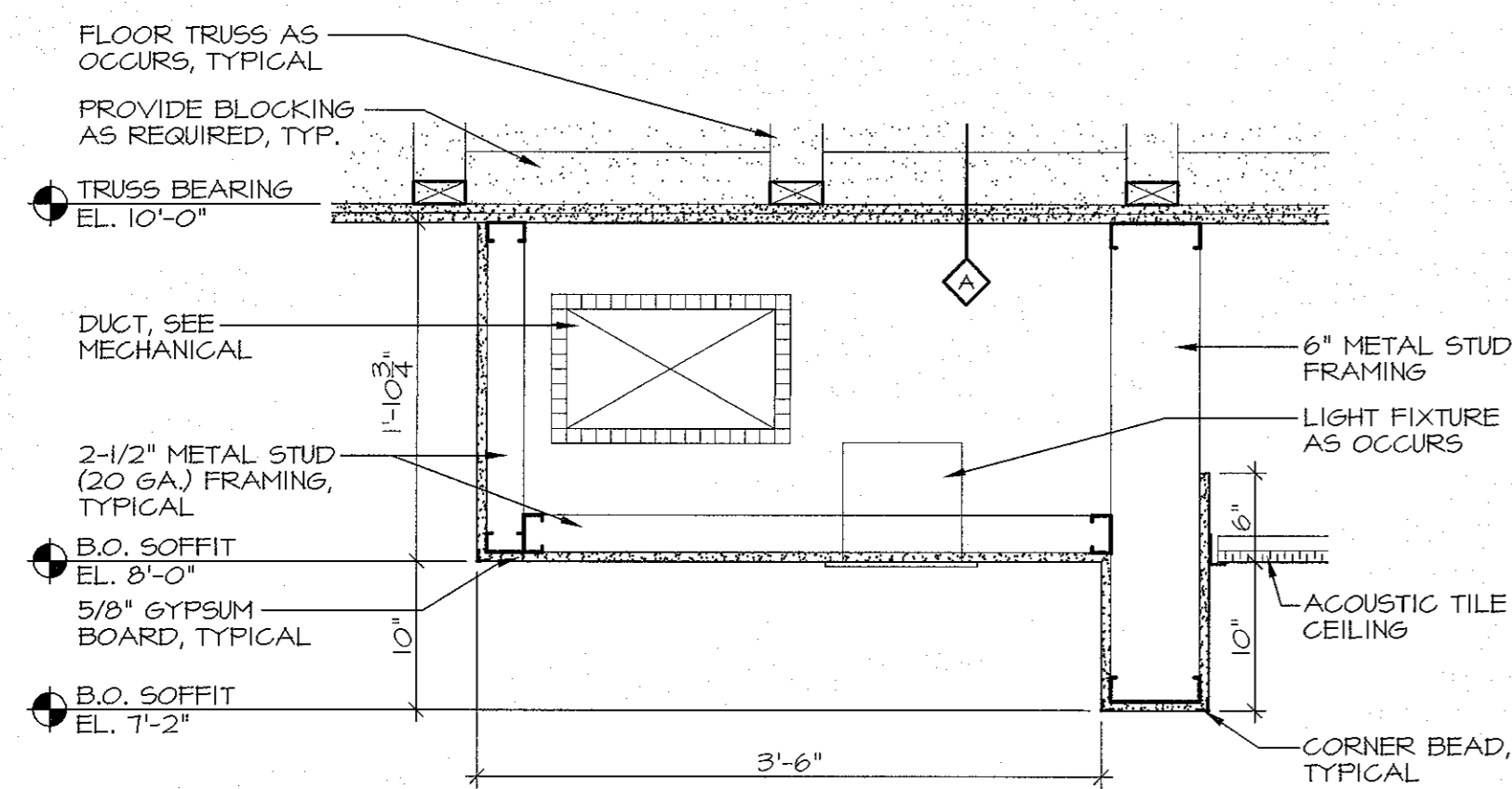
SHEET:



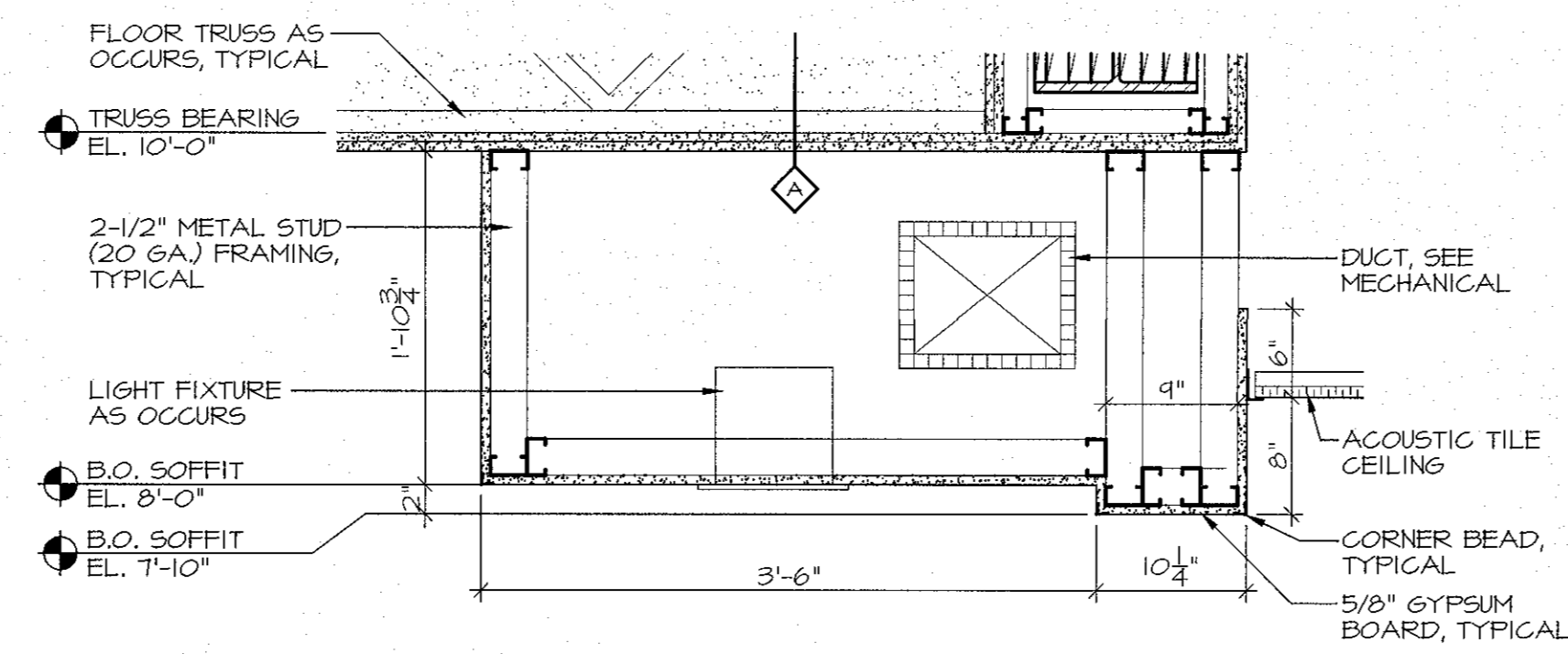
FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



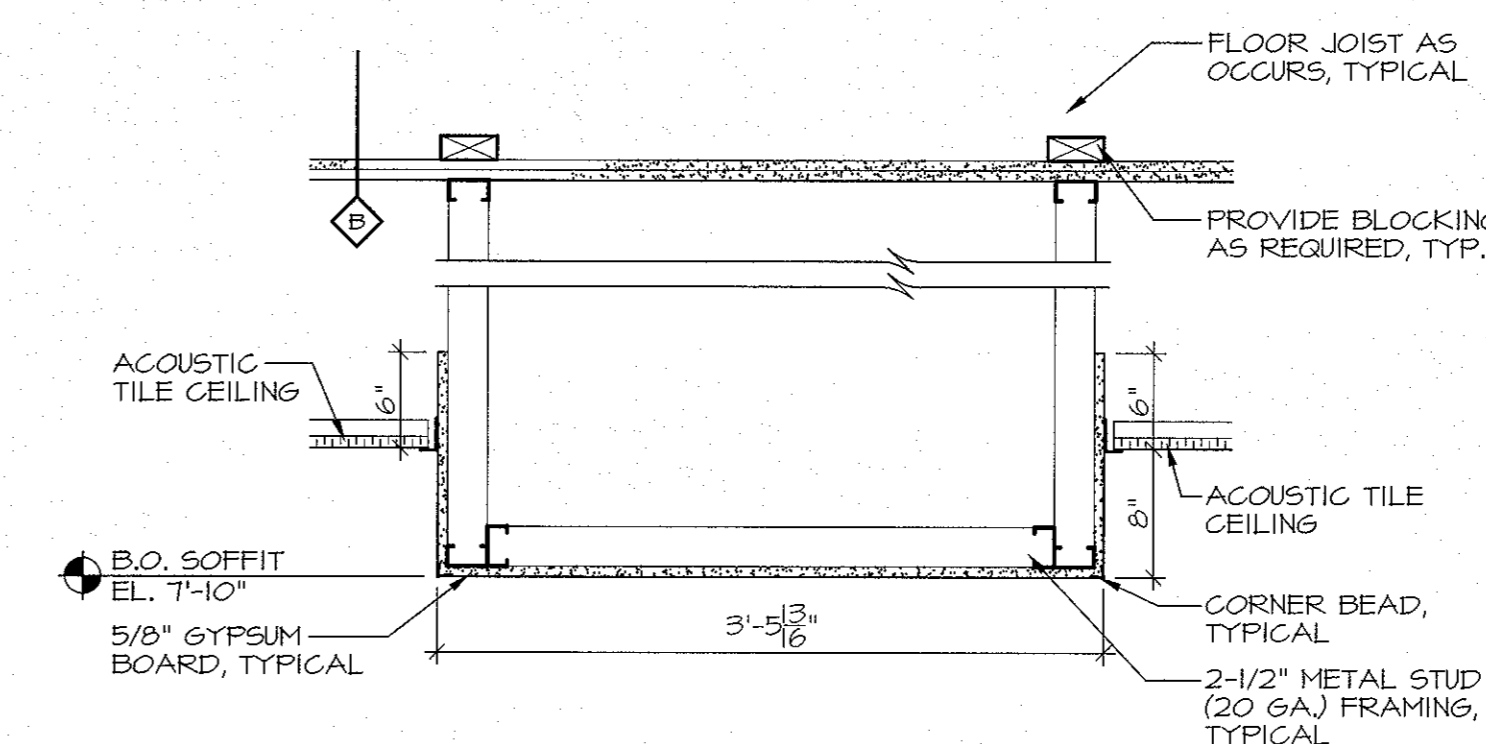
SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



1 SOFFIT DETAIL
SCALE: 1" = 1'-0"



2 SOFFIT DETAIL
SCALE: 1" = 1'-0"



3 SOFFIT DETAIL
SCALE: 1" = 1'-0"

GENERAL NOTES:
A. CENTER ALL DEVICES, GRILLS, ETC. IN CEILING GRID AS SHOWN.

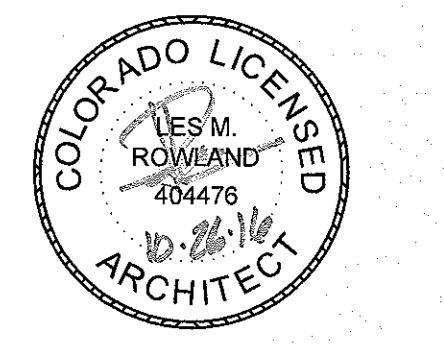
- KEYED NOTES:**
- SUSPENDED GYPSUM BOARD CEILING ON METAL CARRYING SYSTEM ASSEMBLY TYPE K.
 - FURRED GYPSUM BOARD CEILING ON METAL STUD FRAMING, ASSEMBLY TYPE J.
 - OMITTED.
 - INSTALL HOLD-DOWN CLIPS FOR ACOUSTICAL TILE.
 - CABINET UNIT HEATER, SEE MECHANICAL.

LEGEND:
NOTE: ELECTRICAL AND MECHANICAL ITEMS SHOWN SCHEMATICALLY. SEE MECH. & ELEC. PLANS FOR ADDITIONAL CEILING MOUNTED EQUIPMENT.

- INDICATES HEARING IMPAIRED ROOM, SEE ELECTRICAL.
- INDICATES ACCESSIBLE ROOM
- GYPSUM BOARD CEILING
- EIFS FINISH
- SUSPENDED ACOUSTICAL TILE - 2x2 ARMSTRONG #626 CIRRLS 15/16 REGULAR PRELUDE CLASSIC STEP
- SUSPENDED ACOUSTICAL TILE - 2x4 ARMSTRONG #608 CERAMAGUARD 15/16 GRID
- SHAFT OPENING THROUGH FLOOR / CEILING ASSEMBLY
- 8'-0" CEILING HEIGHT INDICATOR
- SURFACE MOUNT FLUORESCENT FIXTURE
- RECESSED FLUORESCENT FIXTURE
- RECESSED FIXTURE
- SURFACE MOUNT FIXTURE
- ACCESS PANEL
- SUPPLY REGISTER
- RETURN AIR
- 6x6 EXHAUST GRILL
- RECESSED PICTURE LIGHT
- PENDANT FIXTURE
- SPEAKER
- EXIT LIGHT FIXTURE
- SMOKE DETECTOR
- HEAT DETECTOR
- HEAT / SMOKE DETECTOR
- TRACK LIGHT FIXTURE

CANDLEWOOD SUITES
Pueblo, CO
PROJ. MGR.
PRO GROUP INC.
208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8187
Fax: 605.582.3894

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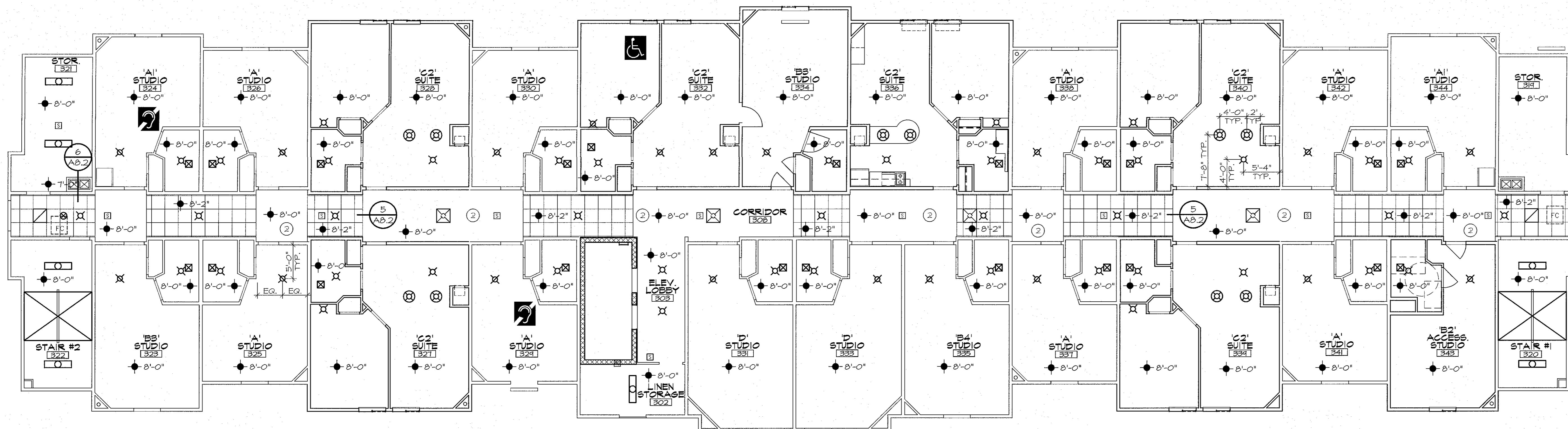


ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

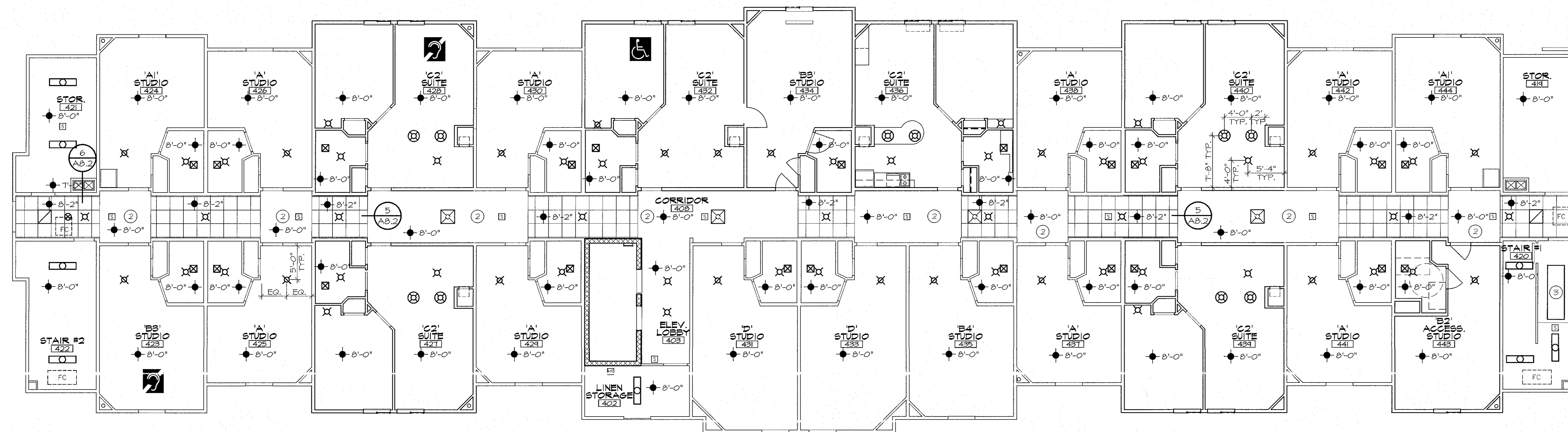
SHEET NAME:
First and Second Floor Reflected Ceiling Plans / Details

PROJECT NO.
W16006
DRAWN BY:
CDS
CHECKED BY:
WLP
DATE:
10.26.2016

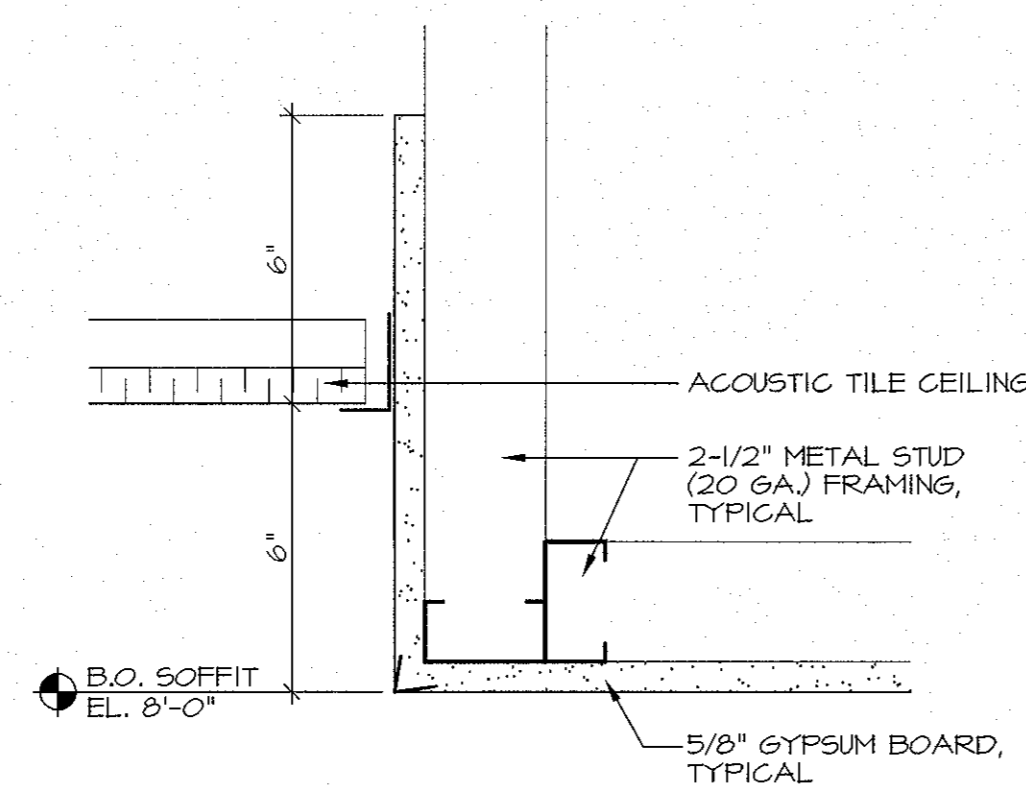
SHEET:
A8.1



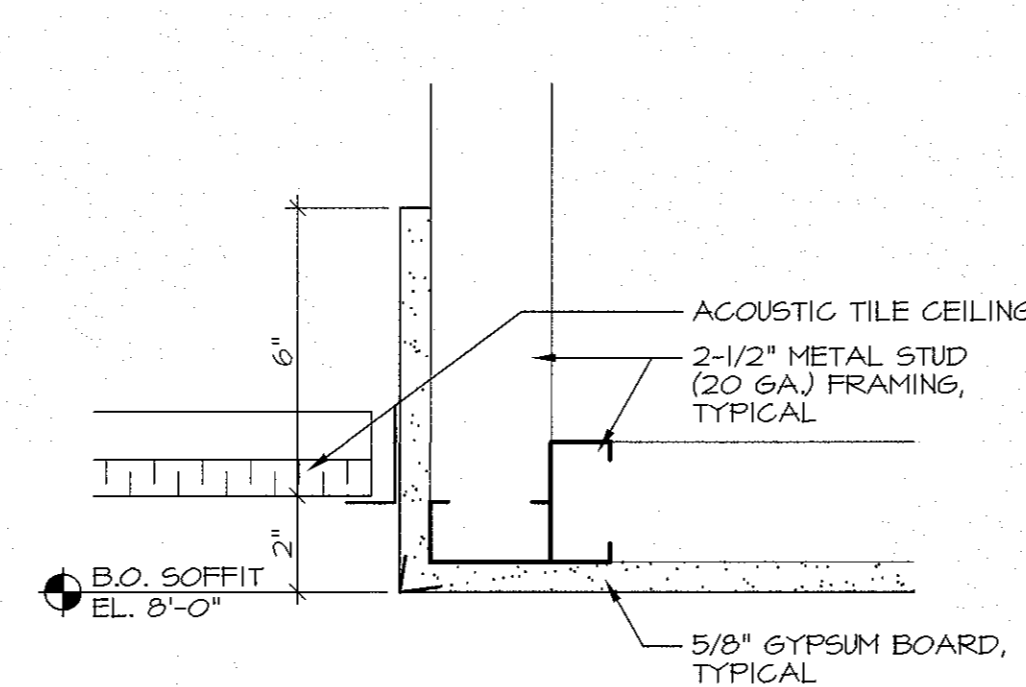
THIRD FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



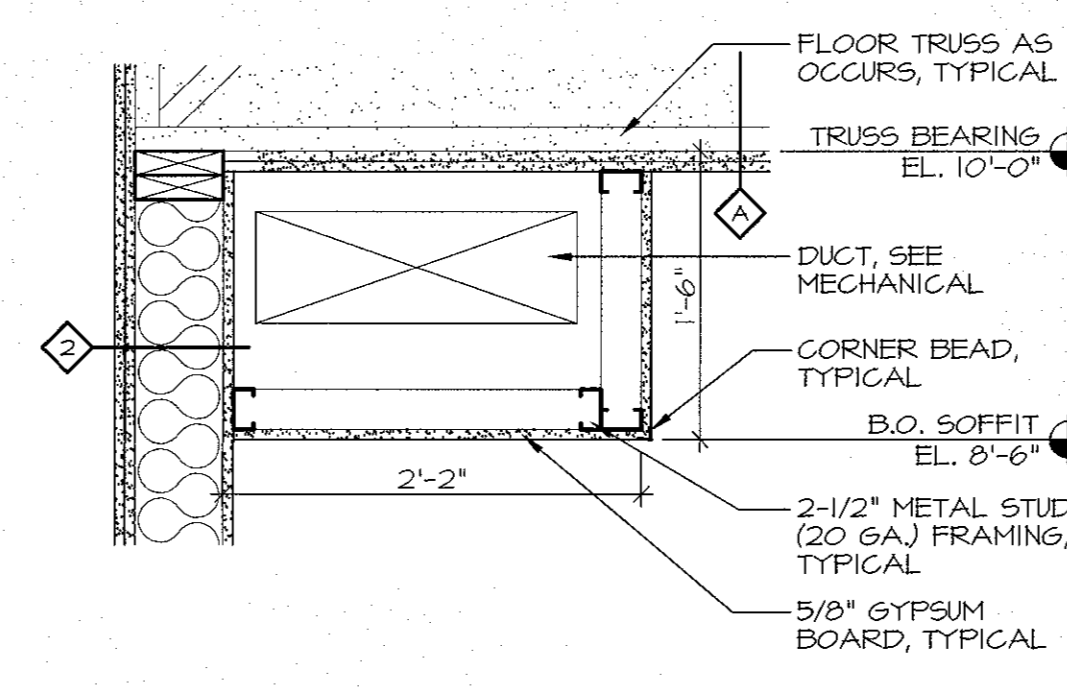
FOURTH FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



4 SOFFIT DETAIL
SCALE: 3" = 1'-0"



5 SOFFIT DETAIL
SCALE: 3" = 1'-0"



6 SOFFIT DETAIL
SCALE: 1" = 1'-0"

GENERAL NOTES:

A. CENTER ALL DEVICES, GRILLS, ETC. IN CEILING GRID AS ALLOWED.

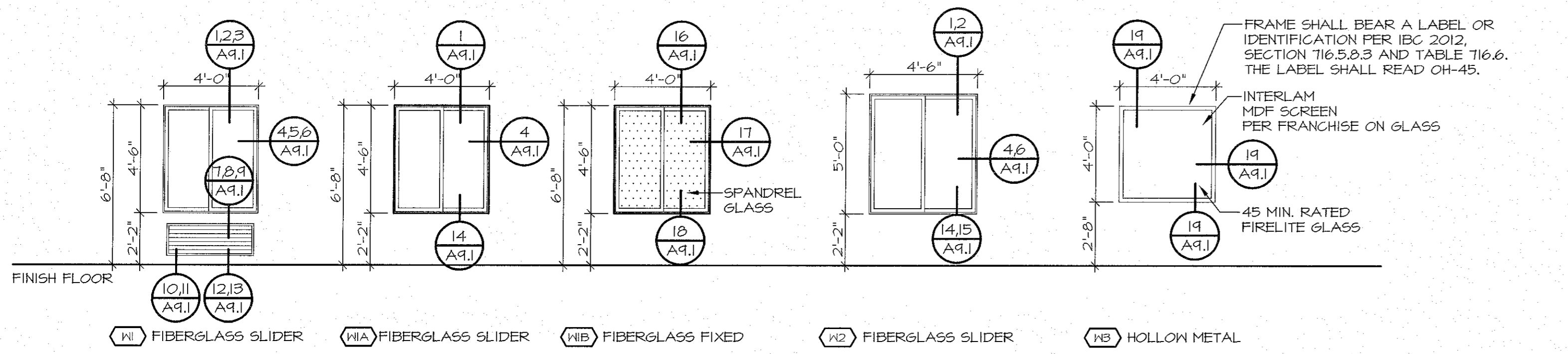
KEYED NOTES:

1. FAN COIL ACCESS DOOR, SEE MECHANICAL.
2. SUSPENDED GYP. BD. ON METAL STUD FRAMING, ASSEMBLY TYPE 'J'.
3. ROOF HATCH.

LEGEND:

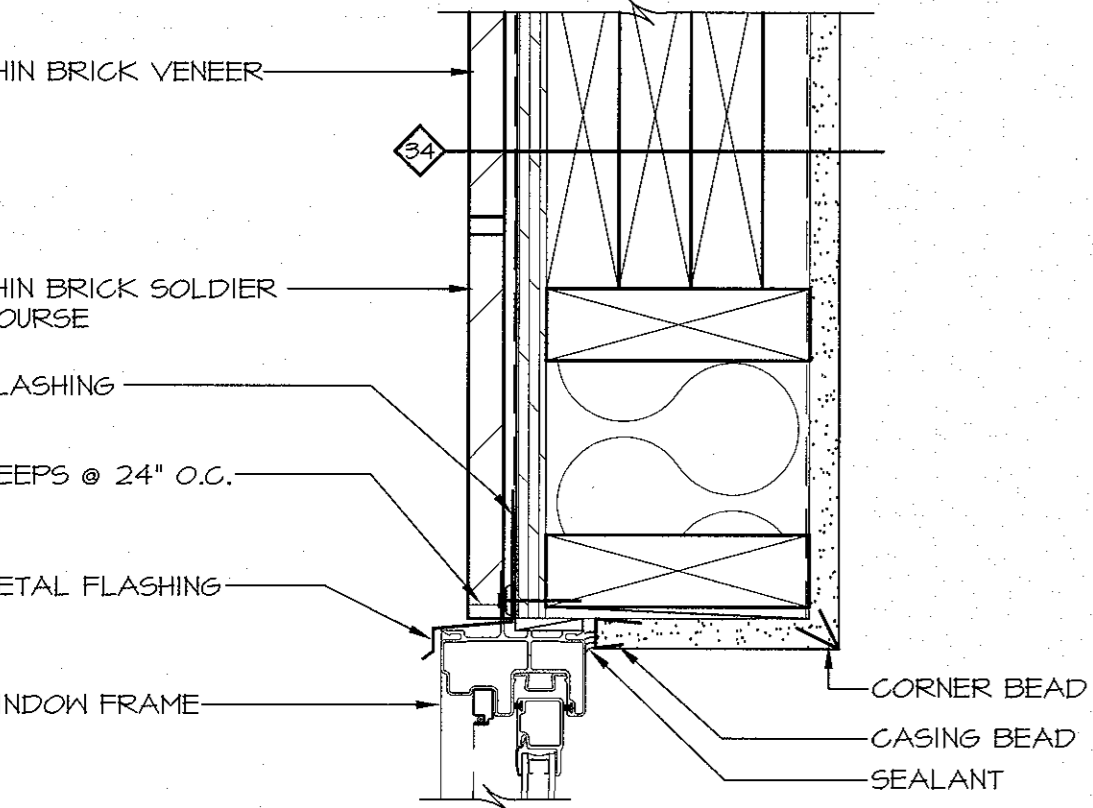
NOTE: ELECTRICAL AND MECHANICAL ITEMS SHOWN SCHEMATICALLY. SEE MECH. & ELEC. PLANS FOR ADDITIONAL CEILING MOUNTED EQUIPMENT.

- INDICATES HEARING IMPAIRED ROOM, SEE ELECTRICAL
- INDICATES ACCESSIBLE ROOM
- GYPSUM BOARD CEILING
- SUSPENDED ACOUSTICAL TILE - 2x2 AR-MSTRONG #626 CIRRUS 15/16 REGULAR PRELUDE CLASSIC STEP
- SHAFT OPENING THROUGH FLOOR / CEILING ASSEMBLY
- CEILING HEIGHT INDICATOR
- SURFACE MOUNT FLUORESCENT FIXTURE
- RECESSED FLUORESCENT FIXTURE
- RECESSED FIXTURE
- SURFACE MOUNT FIXTURE
- ACCESS PANEL
- SUPPLY REGISTER
- RETURN AIR
- 6x6 EXHAUST GRILL
- PENDANT FIXTURE
- EXIT LIGHT FIXTURE
- SMOKE DETECTOR
- HEAT DETECTOR

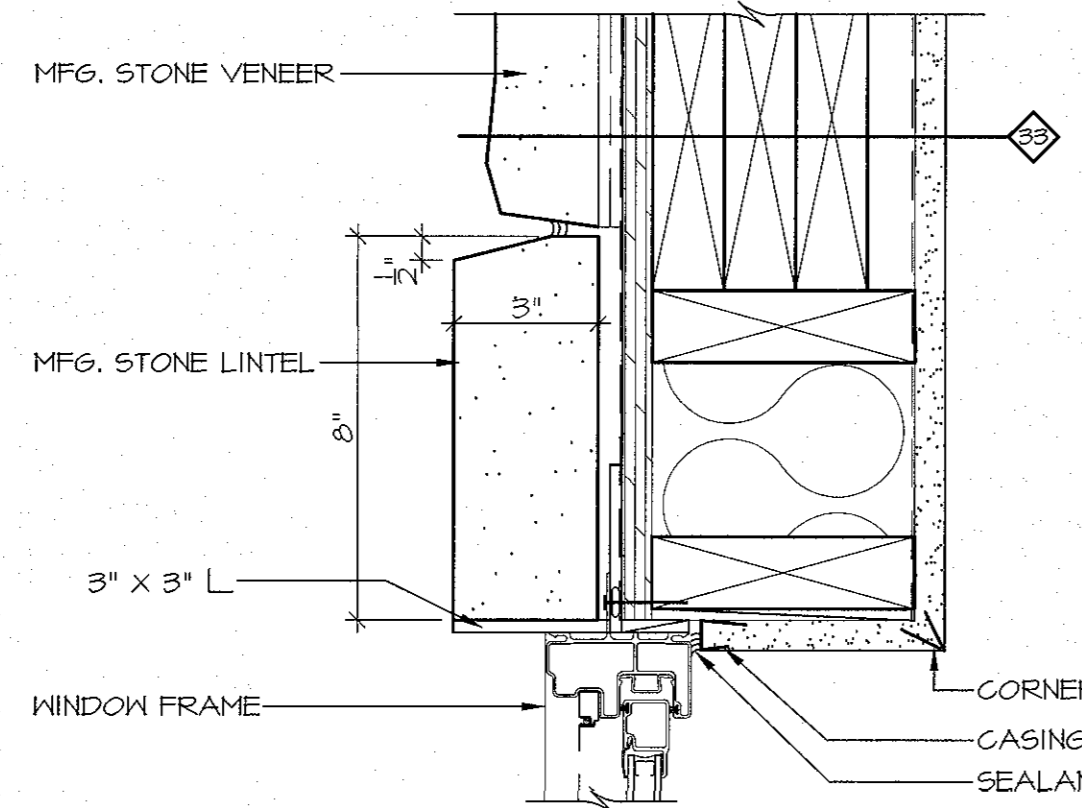


WINDOW ELEVATIONS

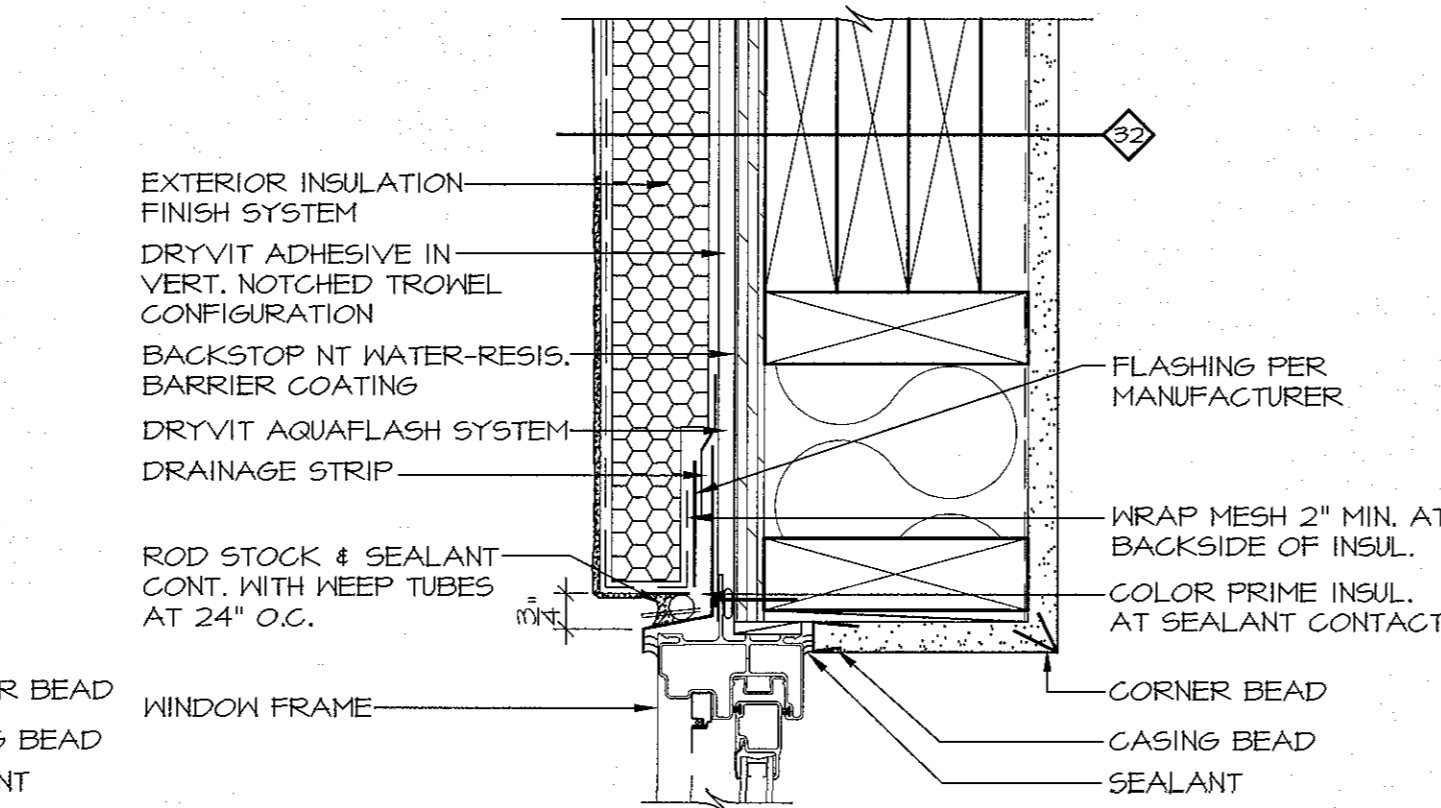
SCALE: 1/4" = 1'-0"



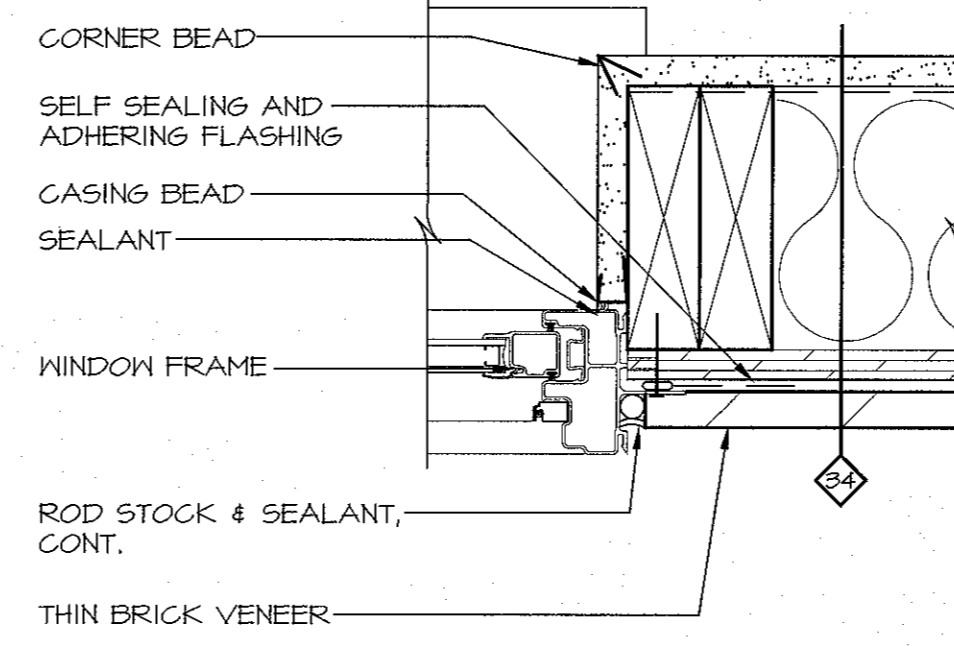
1 HEAD DETAIL - BRICK
SCALE: 3" = 1'-0"



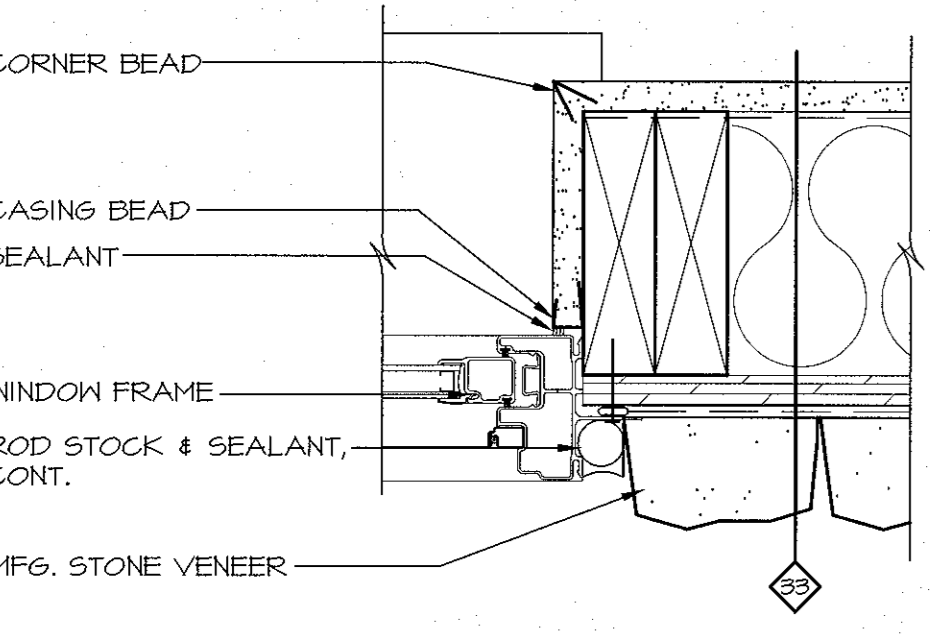
2 HEAD DETAIL - STONE
SCALE: 3" = 1'-0"



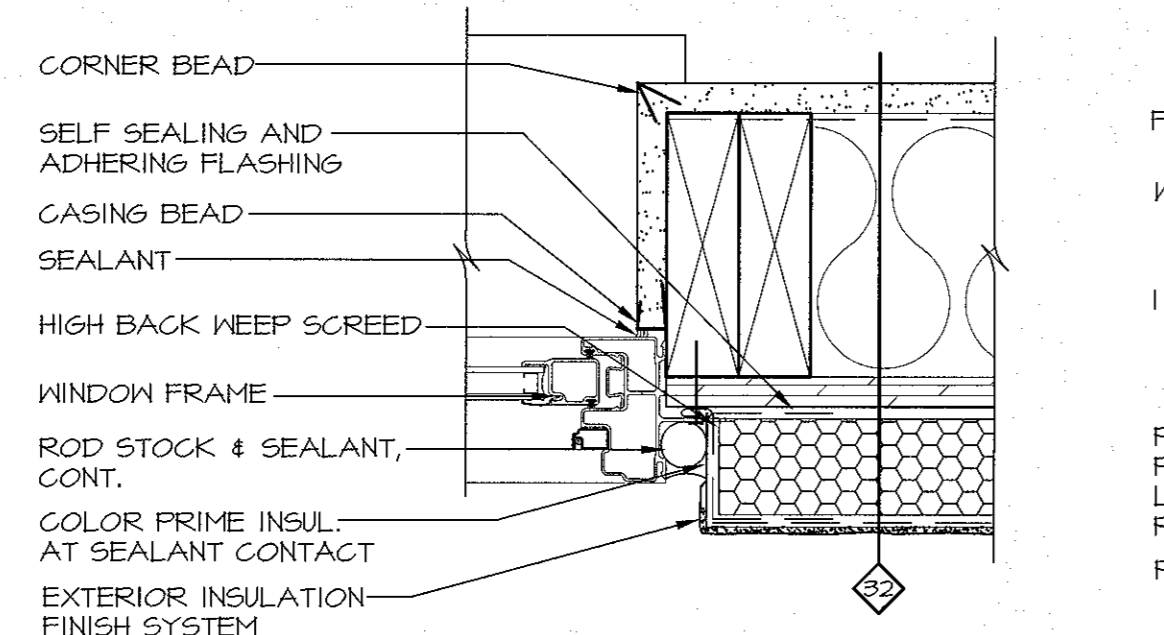
3 HEAD DETAIL - EIFS
SCALE: 3" = 1'-0"



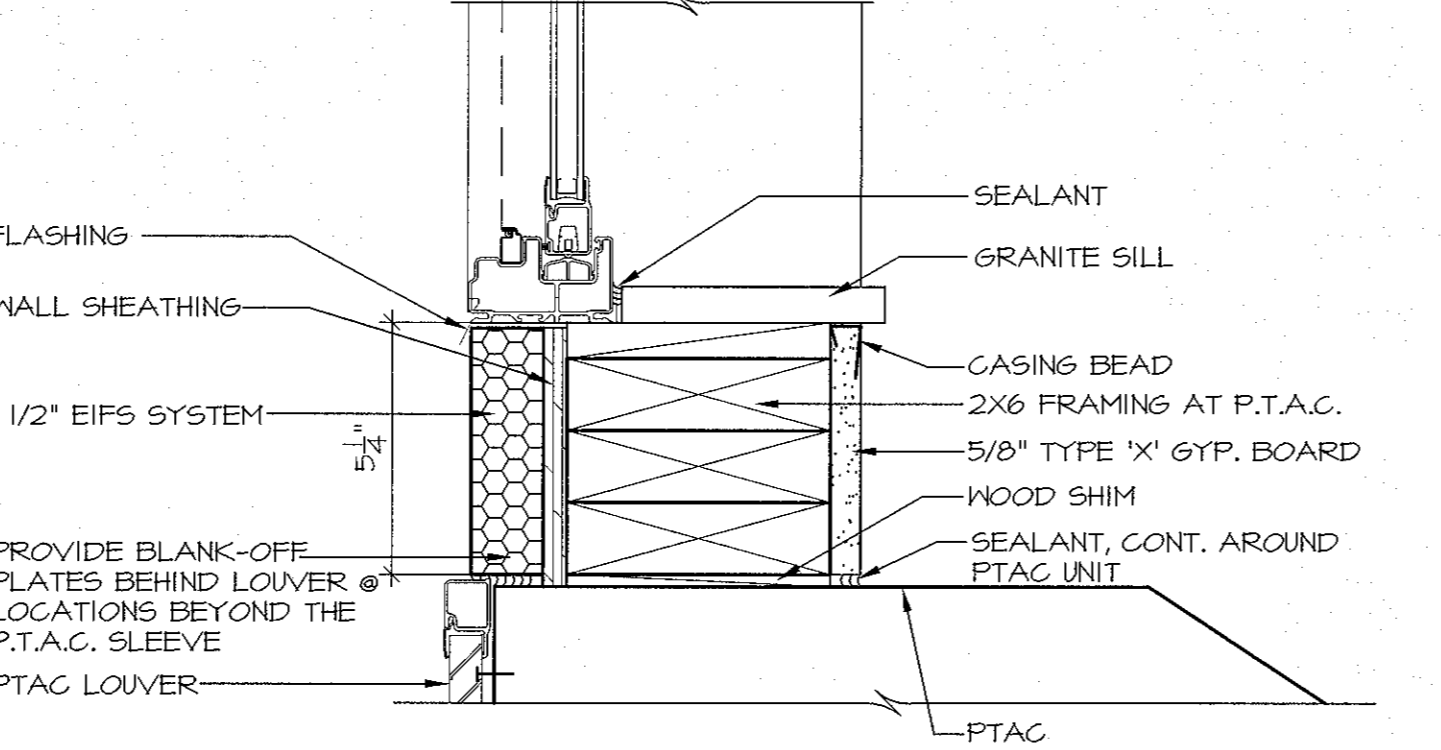
4 JAMB DETAIL - BRICK
SCALE: 3" = 1'-0"



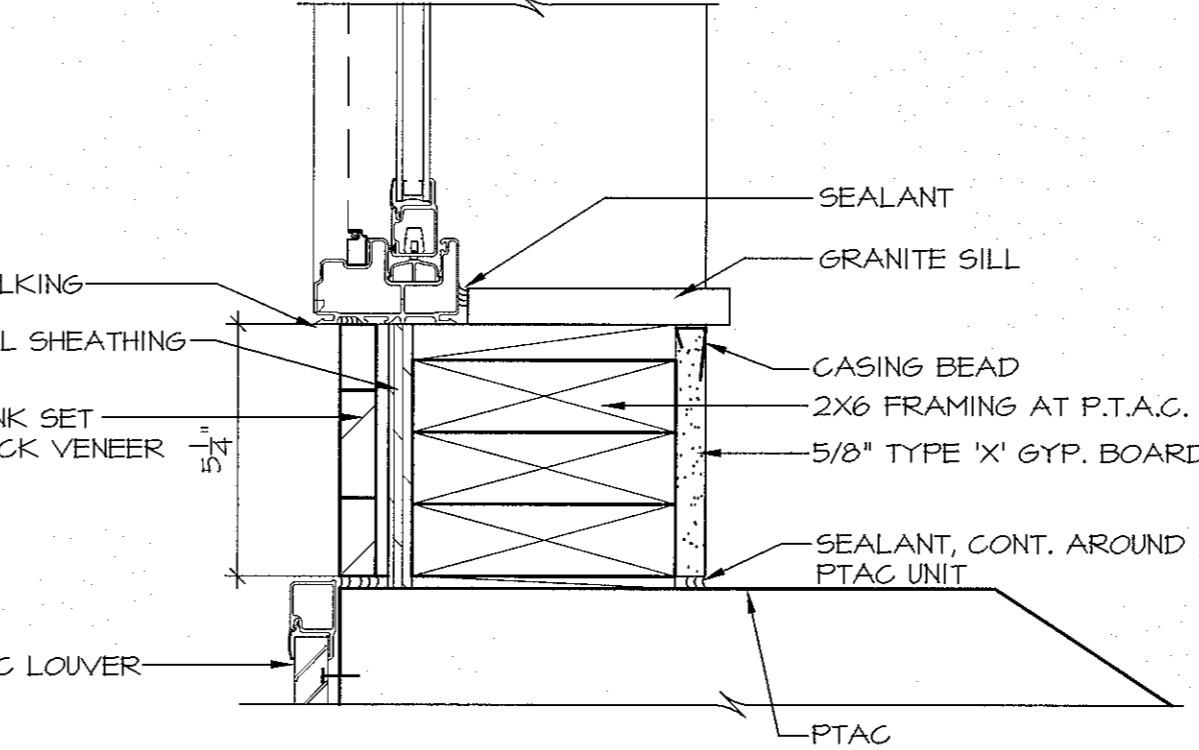
5 JAMB DETAIL - STONE
SCALE: 3" = 1'-0"



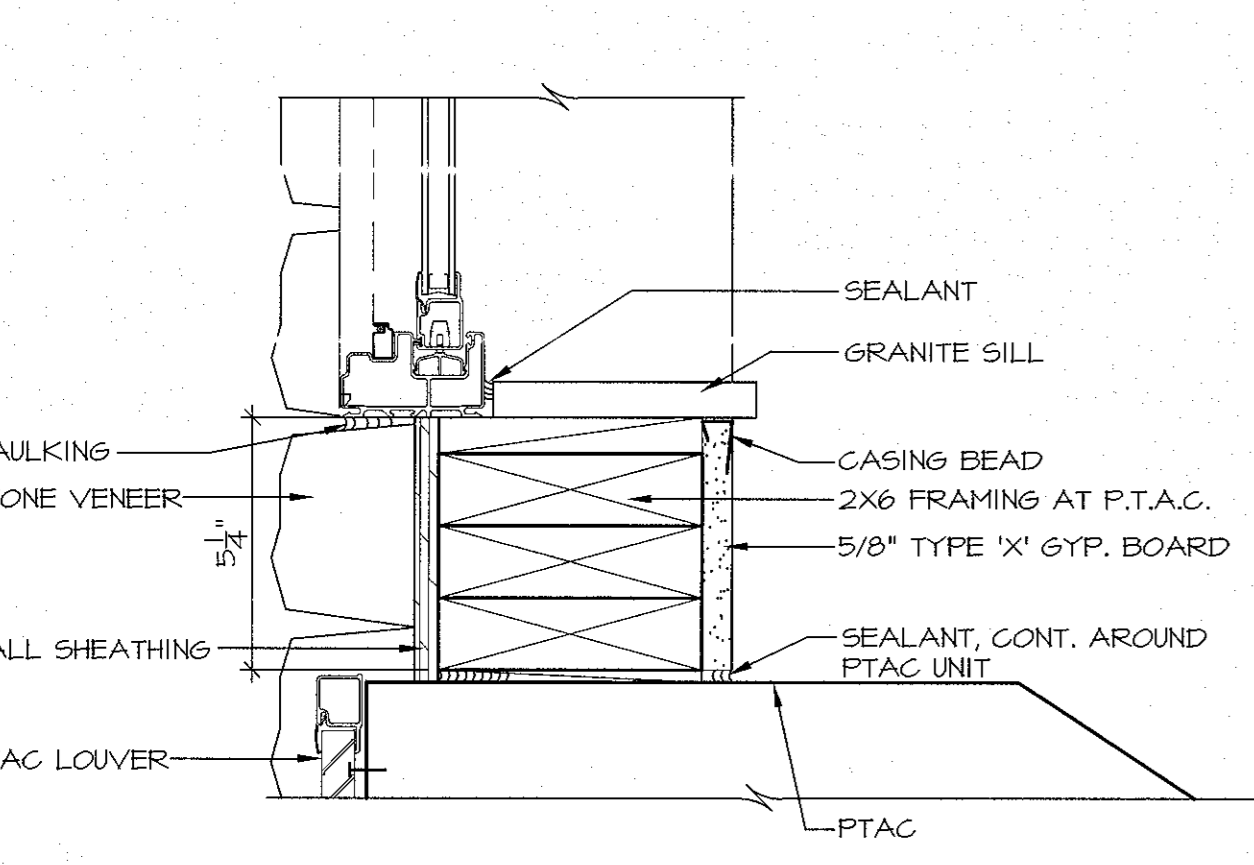
6 JAMB DETAIL - EIFS
SCALE: 3" = 1'-0"



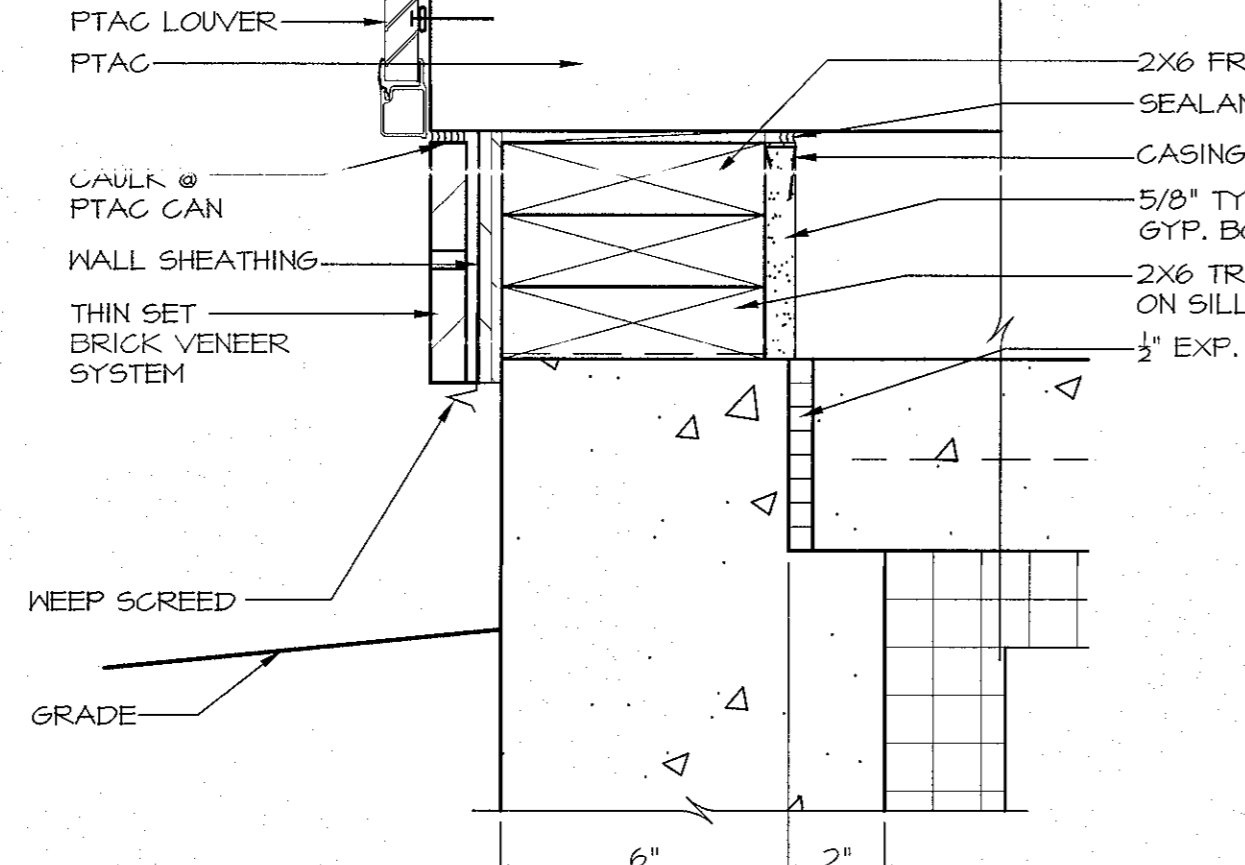
7 SILL DETAIL AT EIFS
SCALE: 3" = 1'-0"



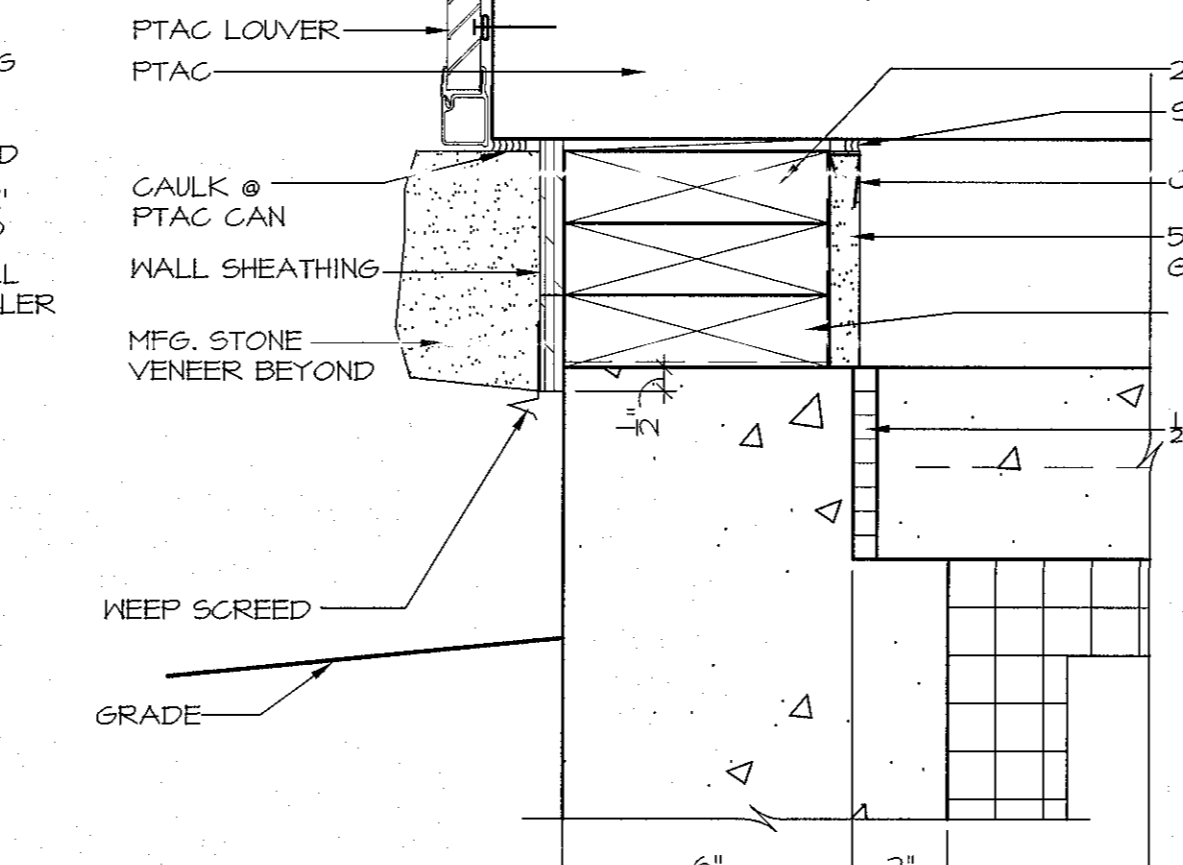
8 SILL DETAIL AT BRICK
SCALE: 3" = 1'-0"



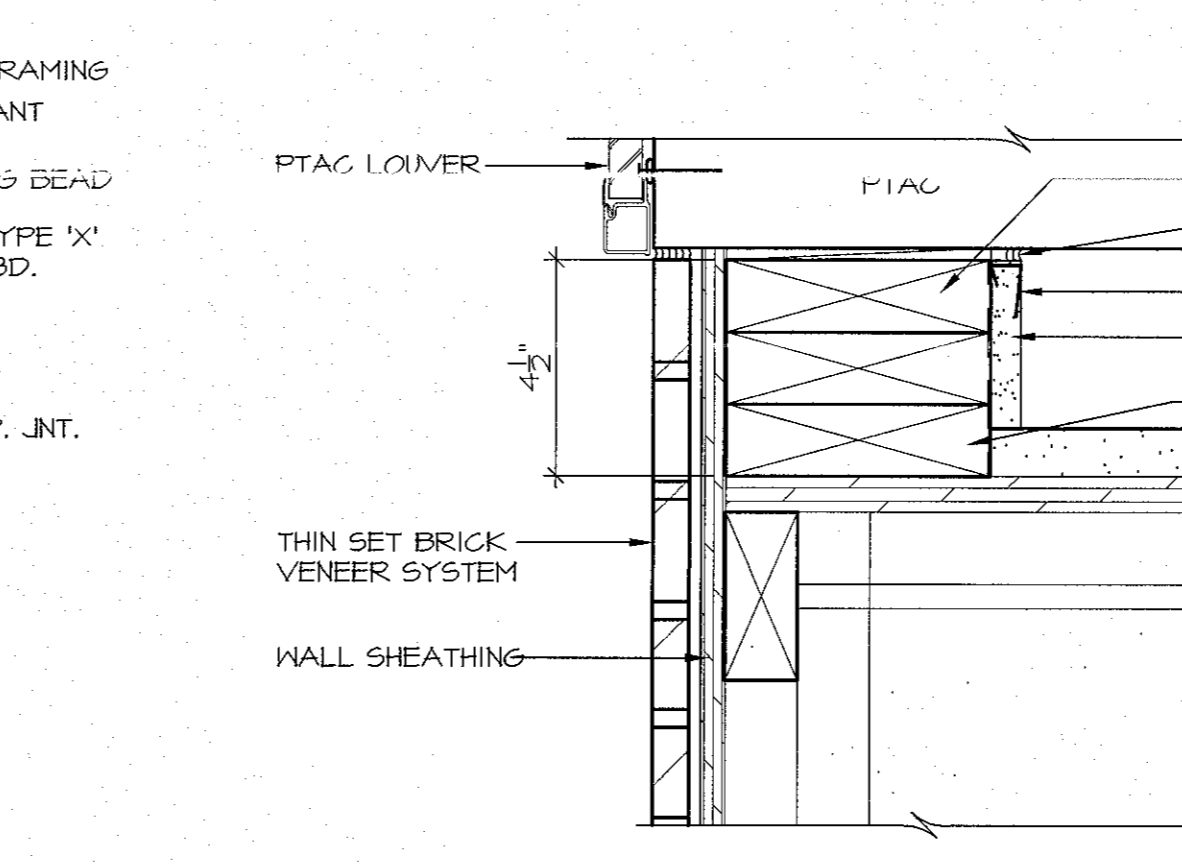
9 SILL DETAIL AT STONE
SCALE: 3" = 1'-0"



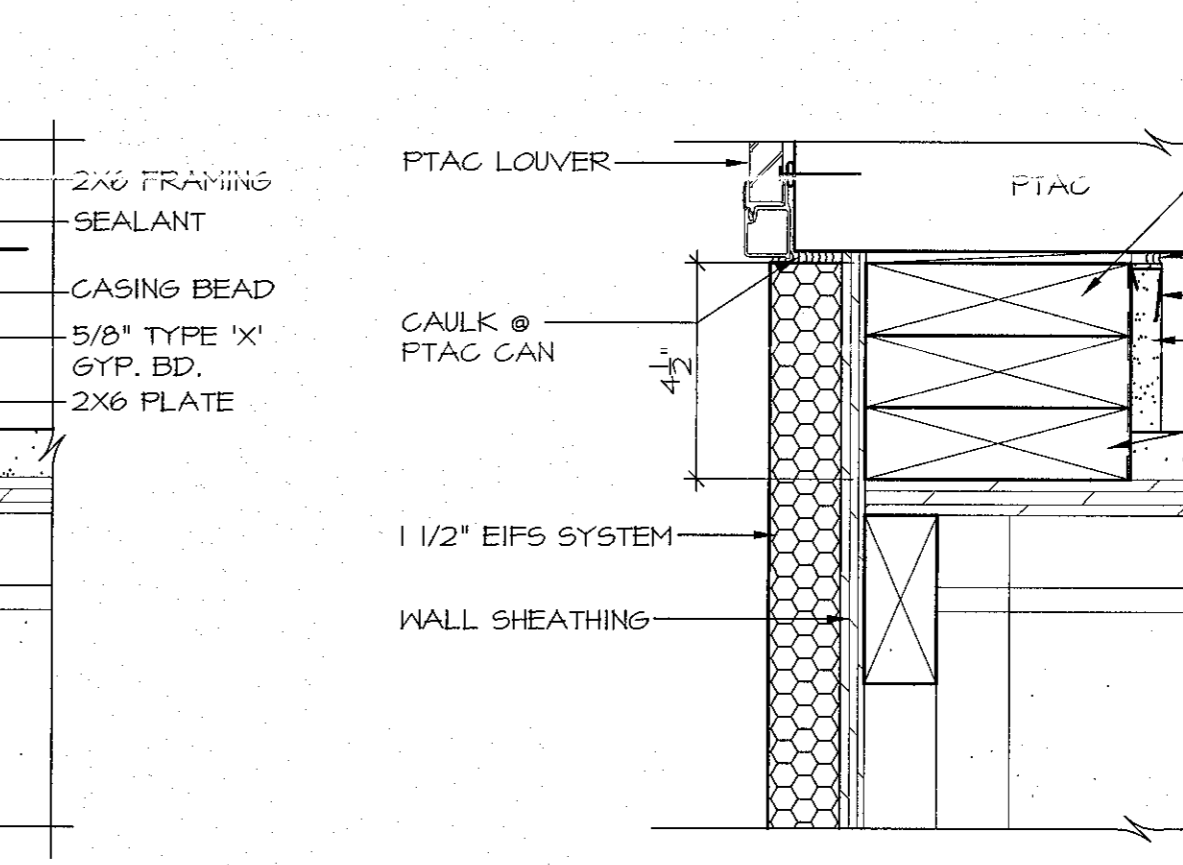
10 SILL DETAIL - BRICK
SCALE: 3" = 1'-0"



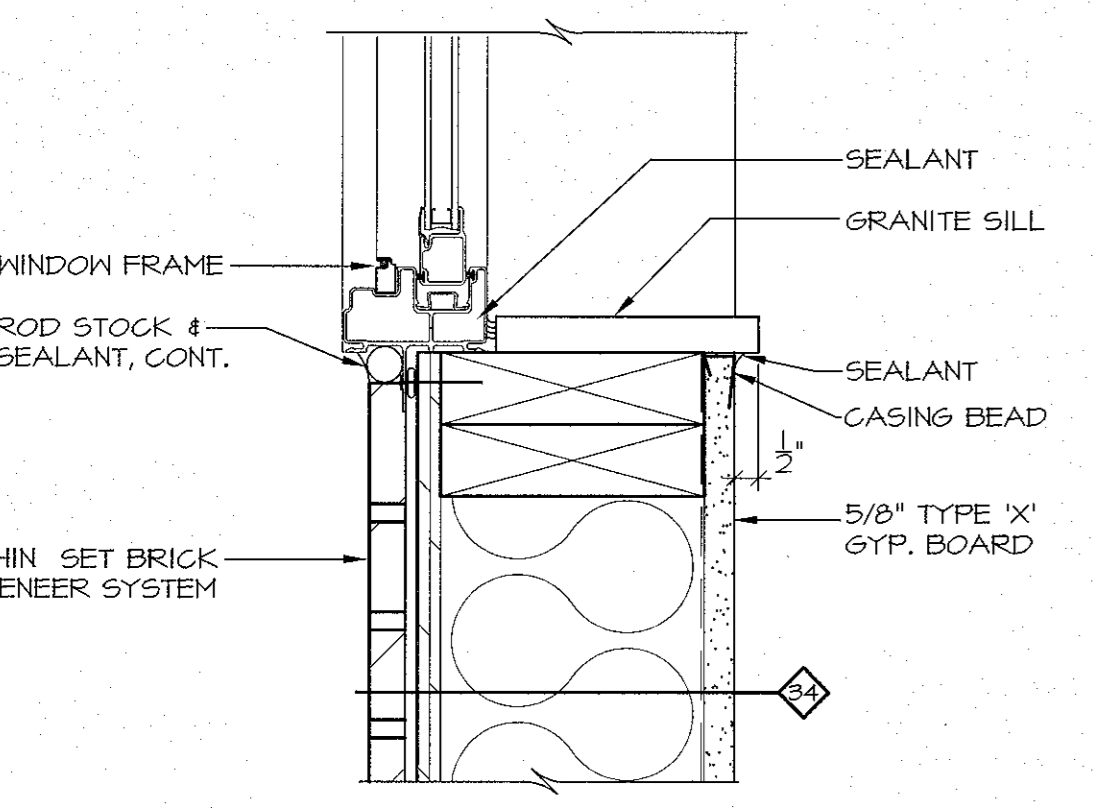
11 SILL DETAIL - STONE
SCALE: 3" = 1'-0"



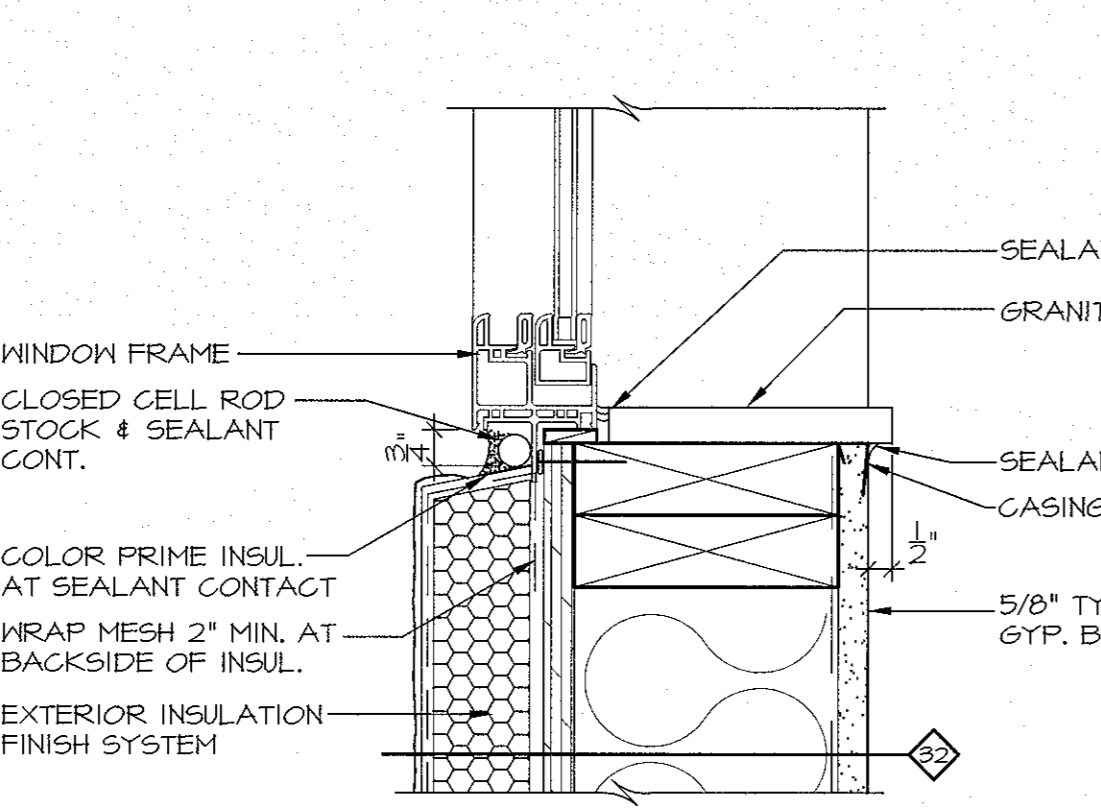
12 SILL DETAIL - BRICK
SCALE: 3" = 1'-0"



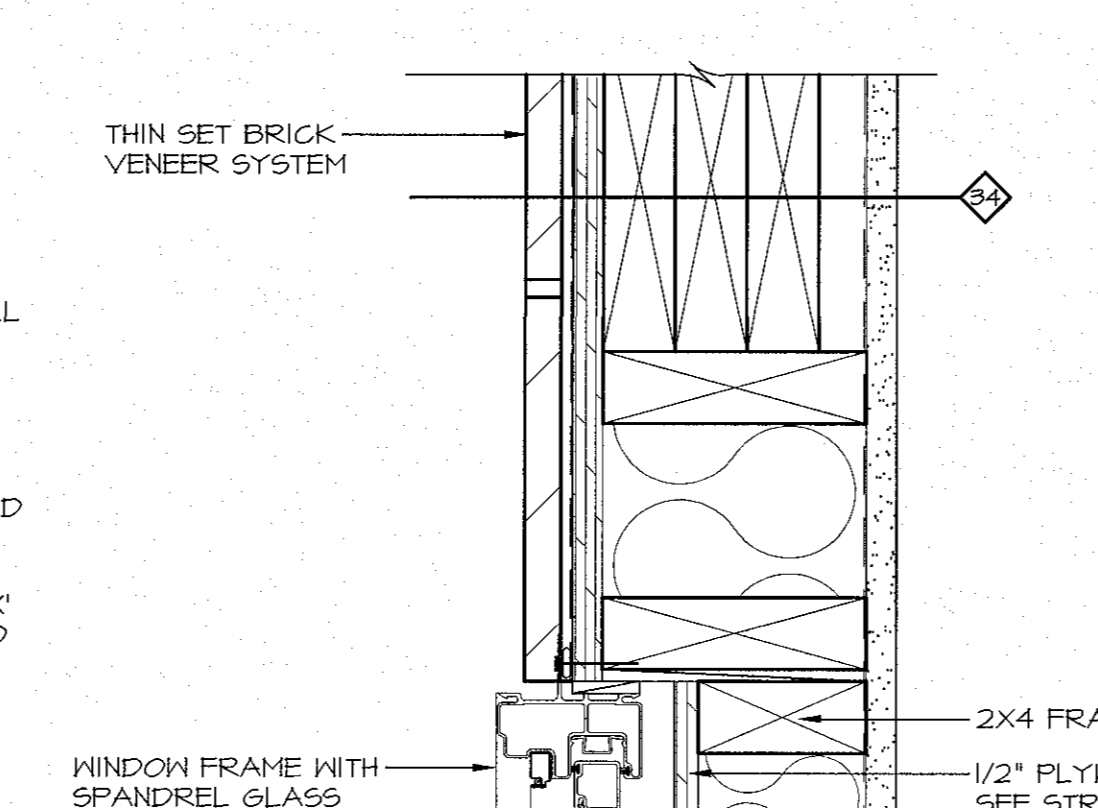
13 SILL DETAIL - EIFS
SCALE: 3" = 1'-0"



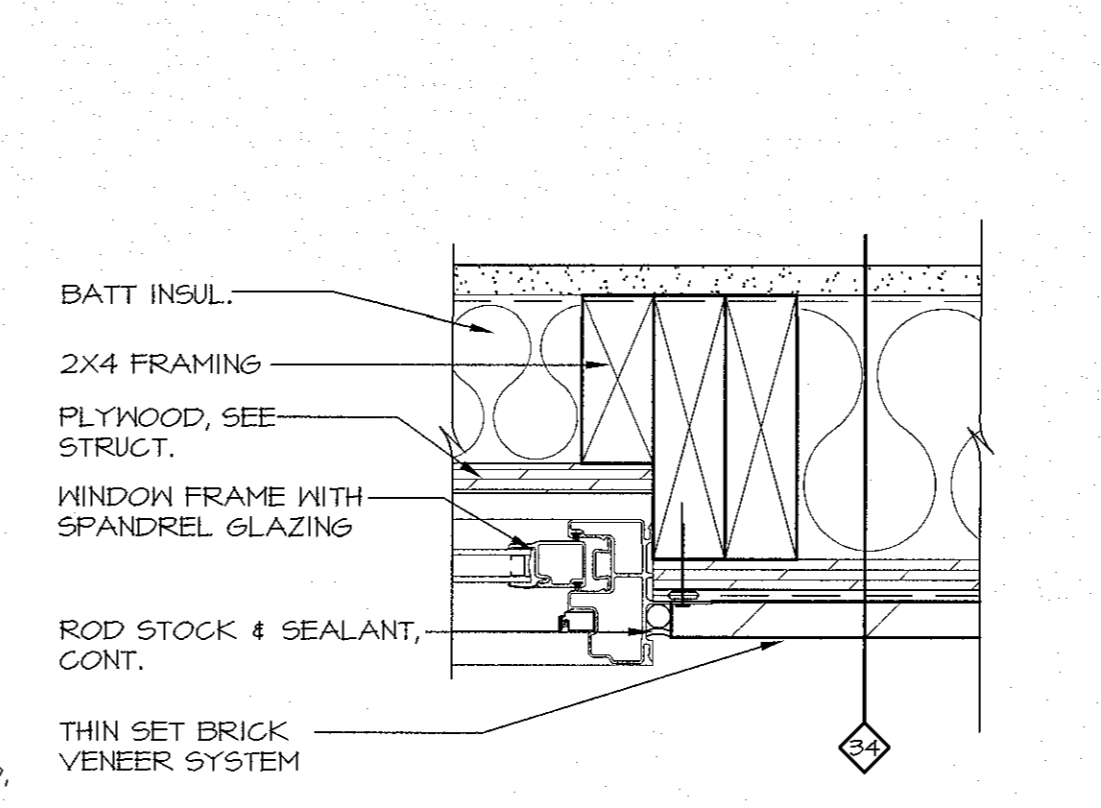
14 SILL DETAIL - BRICK
SCALE: 3" = 1'-0"



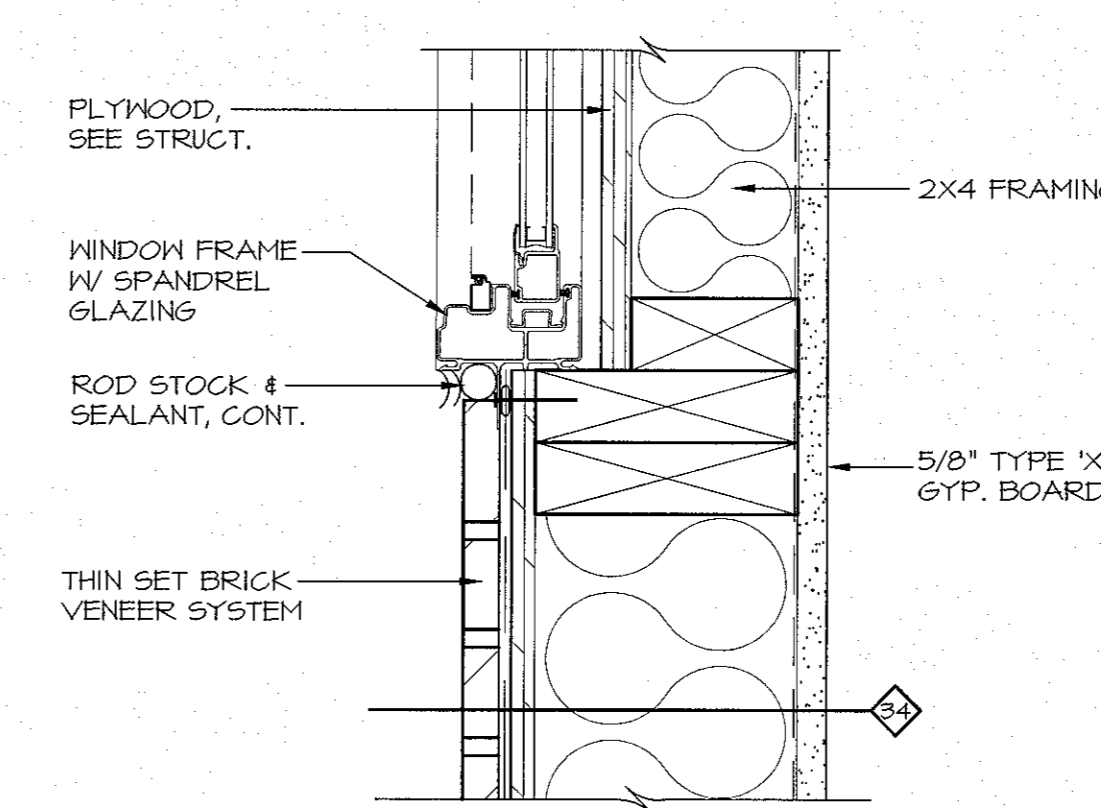
15 SILL DETAIL
SCALE: 3" = 1'-0"



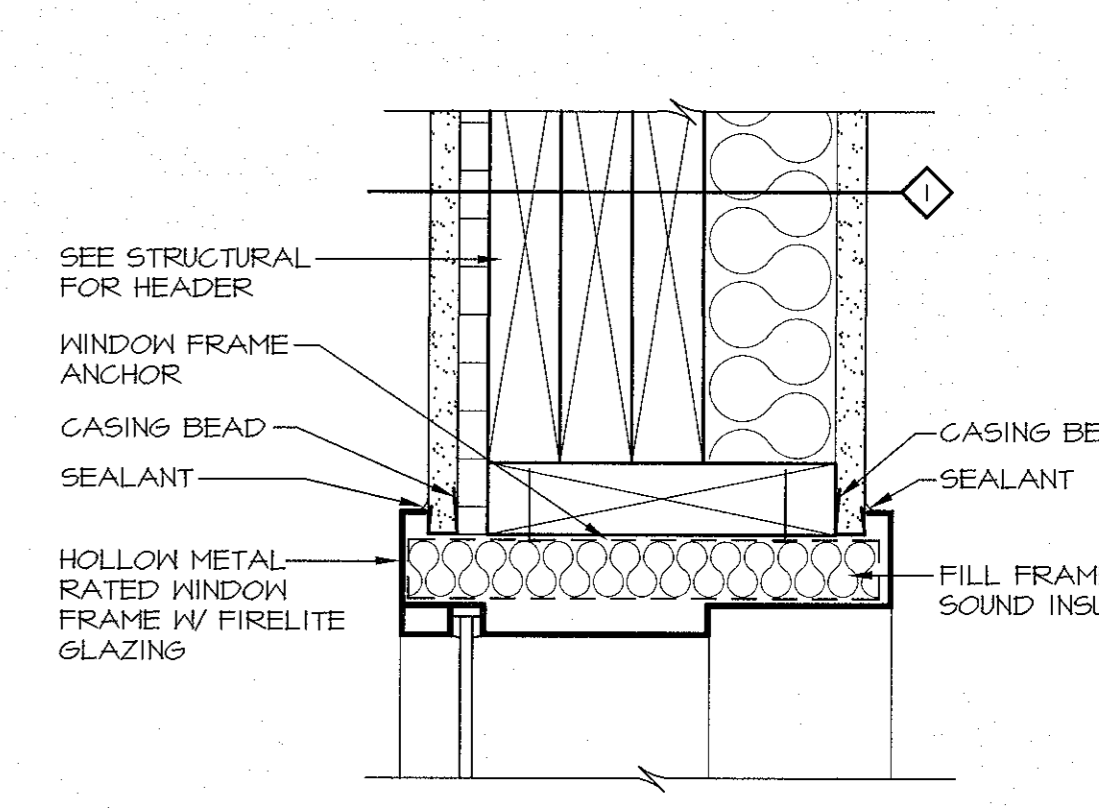
16 HEAD DETAIL - BRICK
SCALE: 3" = 1'-0"



17 JAMB DETAIL - BRICK
SCALE: 3" = 1'-0"



18 SILL DETAIL - BRICK
SCALE: 3" = 1'-0"



19 HEAD/JAMB/SILL DETAIL
SCALE: 3" = 1'-0"

WINDOW	SIZE	SQ. FT.	TYPE	FRAME	REMARKS
W1	4'-0" x 4'-6"	18	SLIDER	FIBERGLASS	NOTE 1, 2, 3, 6
W1A	4'-0" x 4'-6"	18	SLIDER	FIBERGLASS	NOTE 1, 2, 3, 6
W2	4'-0" x 4'-6"	18	FIXED	FIBERGLASS	NOTE 4, 5, 6
W2A	4'-0" x 4'-6"	18	FIXED	FIBERGLASS	NOTE 4, 5, 6
W3	4'-0" x 4'-6"	18	FIXED	FIBERGLASS	NOTE 1, 2, 3, 6

WINDOW SCHEDULE NOTES:
 1. SEE WINDOW SCHEDULE SAFETY/PLATE GLASS NOTES.
 2. LOW 'E' GLAZING.
 3. SPANDREL GLAZING.
 4. MANUFACTURER TO SUBMIT SPANDREL GLASS PANEL SAMPLE TO ARCHITECT FOR APPROVAL.
 5. BEFORE ORDERING.
 6. VERIFY ALL WINDOW SPECIFICATIONS WITH OWNER SUPPLIED ITEMS.

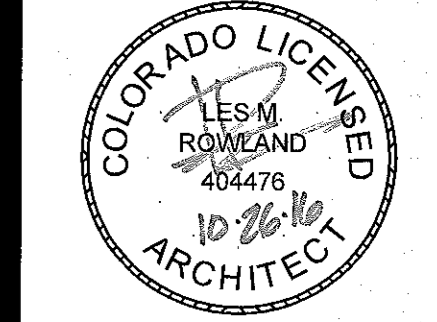
GENERAL NOTES:

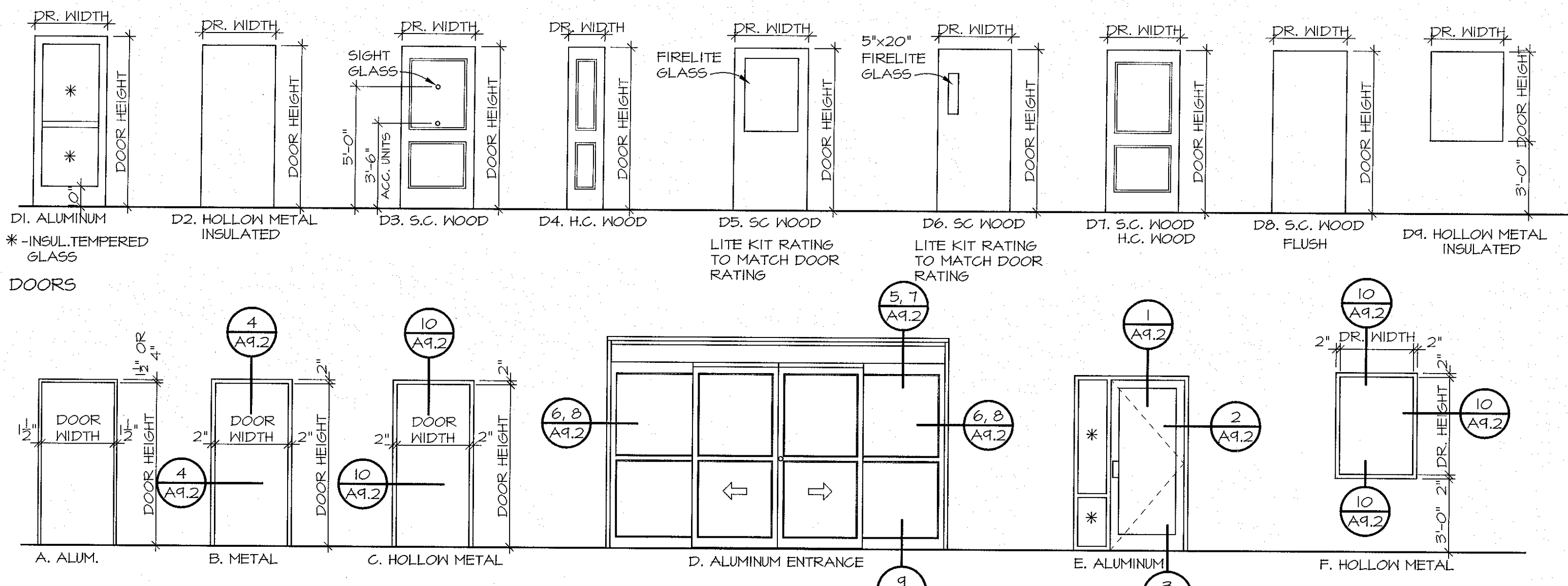
- DETAILS BASED ON DRYVIT OUTSULATION PLUS SYSTEM.
- G.C. TO VERIFY AND COORDINATE WITH EIFS MANUFACTURER, EIFS INSTALLER AND WALL TYPES.
- EIFS INSTALLER TO BE CERTIFIED BY MANUFACTURER.
- REFER TO EIFS DETAILS IN CONJUNCTION WITH WINDOW DETAILS.

ROOM	DESCRIPTION	FLOOR	BASE	WALLS	CEILING	HEIGHT	REMARKS
100	VESTIBULE	C.T.	C.T. / W/SP	PAINT S/K	MA.S.T.	8'-0"	
101	LOBBY	C.T. / CARPET	C.T.	PAINT S/K	MA.S.T.	VARIABLES	SEE REFLECTED CEILING PLAN
102	STORAGE	CONCRETE	VINYL	PAINT	PAINT S/K	10'-0"	
103	BLV. LOBBY	CARPET	CARPET	PAINT S/K	A.C.T.	8'-6"	
104	RECEPTION	CARPET	CARPET	PAINT S/K	MA.S.T. / A.C.T.	7'-2" / 8'-0"	SEE REFLECTED CEILING PLAN
104A	WORK ROOM	CARPET	CARPET	PAINT S/K	MA.S.T.	8'-0"	
104B	CLOSET	CARPET	CARPET	PAINT S/K	MA.S.T.	8'-0"	
105	BRK. ROOM	V.C.T.	VINYL	PAINT S/K	A.C.T.	8'-0"	
106	KITCHEN	V.C.T.	VINYL	*E.P. / PAINT	*A.C.T.	8'-0"	*HP LOCS. PER PLAN, INTJAC COVER, A.C.T.
107	OFFICE	CONCRETE	VINYL	PAINT	PAINT S/K	10'-0"	*SLICK CEILING FINISH WITH EGGSHELL S/K
108	CORRIDOR	CARPET / C.T.	CARPET / C.T.	PAINT S/K	PAINT S/K, A.C.T.	VARIABLES	SEE REFLECTED CEILING PLAN
109	EXERCISE	WOVEN VINYL / C.T.	VINYL / C.T.	PAINT S/K	A.C.T.	9'-0"	
11	GUEST LAUNDRY	C.T.	COVER CT	PAINT S/K	A.C.T.	8'-0"	
112	CLIPBOARD	V.C.T.	VINYL	PAINT S/K	MA.S.T.	10'-0"	
113	CLIPBOARD	C.T.	C.T.	PAINT S/K	MA.S.T.	9'-0"	
114	SALES OFFICE	CARPET	CARPET	PAINT	A.C.T.	8'-0"	
114A	MANAGER	CARPET	CARPET	PAINT	A.C.T.	8'-0"	
115	NEWS ROOM	C.T.	COVER CT	PAINT S/K / *E.P.	MA.S.T.	8'-0"	*4'-0" CT WAINCOT
116	BUSINESS TOLLET	C.T.	COVER CT	PAINT S/K / *E.P.	MA.S.T.	8'-0"	*4'-0" CT WAINCOT
117	NEWS CENTER	CARPET	CARPET	PAINT	MA.S.T.	9'-0"	
118	ELEC. / MECHANICAL	CONCRETE	VINYL	PAINT	PAINT S/K	10'-0"	*SLICK CEILING FINISH WITH EGGSHELL S/K
119	STORAGE	V.C.T.	VINYL	PAINT	PAINT S/K	10'-0"	*SLICK CEILING FINISH WITH EGGSHELL S/K
120	STAIR #1	CARPET	*CARPET	PAINT S/K	PAINT S/K	VARIABLES	*10" BASE ON STAIRS, 6" AT LANDINGS
121	STORAGE	V.C.T.	VINYL	PAINT	PAINT S/K	10'-0"	*SLICK CEILING FINISH WITH EGGSHELL S/K
122	STAIR #2	CARPET	*CARPET	PAINT S/K	PAINT S/K	VARIABLES	*10" BASE ON STAIRS, 6" AT LANDINGS
202	PKX	V.C.T.	VINYL	PAINT	PAINT S/K	8'-0"	
202A	BLV. LOBBY	CARPET	CARPET	PAINT S/K	PAINT S/K	8'-0"	
202B	CORRIDOR	CARPET	CARPET	PAINT S/K, A.C.T.	PAINT S/K	VARIABLES	SEE REFLECTED CEILING PLAN
219	STORAGE	V.C.T.	VINYL	PAINT	PAINT S/K	8'-0"	
220	STAIR #1	CARPET	*CARPET	PAINT S/K	PAINT S/K	VARIABLES	*10" BASE ON STAIRS, 6" AT LANDINGS
221	STORAGE	V.C.T.	VINYL	PAINT	PAINT S/K	8'-0"	
222	STAIR #2	CARPET	*CARPET	PAINT S/K	PAINT S/K	VARIABLES	*10" BASE ON STAIRS, 6" AT LANDINGS
302	LINEAR STORAGE	V.C.T.	VINYL	PAINT	PAINT S/K	8'-0"	
403	BLV. LOBBY	CARPET	CARPET	PAINT S/K	PAINT S/K	8'-0"	
403B	CORRIDOR	CARPET	CARPET	PAINT S/K	PAINT S/K, A.C.T.	VARIABLES	SEE REFLECTED CEILING PLAN
419	STORAGE	V.C.T.	VINYL	PAINT	PAINT S/K	8'-0"	
420	STAIR #1	CARPET	*CARPET	PAINT S/K	PAINT S/K	VARIABLES	*10" BASE ON STAIRS, 6" AT LANDINGS
421	STORAGE	V.C.T.	VINYL	PAINT	PAINT S/K	8'-0"	
422	STAIR #2	CARPET	*CARPET	PAINT S/K	PAINT S/K	VARIABLES	*10" BASE ON STAIRS, 6" AT LANDINGS
900	PENTHOUSE	PLYWOOD	N/A	PAINT	PAINT	VARIABLES	
125-156	TYPICAL	CARPET	CARPET	PAINT S/K	MA.S.T. OR S/K	10'-0" / 15'	
225-244	TYPICAL	CARPET	CARPET	PAINT S/K	MA.S.T. OR S/K	8'-0" / 24'	
325-344	TYPICAL	CARPET	CARPET	PAINT S/K	MA.S.T. OR S/K	8'-0" / 24'	
425-444	TYPICAL	CARPET	CARPET	PAINT S/K	MA.S.T. OR S/K	8'-0" / 24'	
125-156	TYPICAL RENTAL	VINYL PLANK	RUBBER	PAINT S/K	MA.S.T. OR S/K	10'-0" / 15'	
225-244	TYPICAL RENTAL	VINYL PLANK	RUBBER	PAINT S/K	MA.S.T. OR S/K	8'-0" / 24'	
325-344	TYPICAL RENTAL	VINYL PLANK	RUBBER	PAINT S/K	MA.S.T. OR S/K	8'-0" / 24'	
425-444	TYPICAL RENTAL	VINYL PLANK	RUBBER	PAINT S/K	MA.S.T. OR S/K	8'-0" / 24'	
125-156	TYP. RENTAL	C.T.	COVER CT	PAINT S/K	PAINT S/K	*8'-0"	*HURLED DOWN OP. BR., ASSEMBLY TYPE 'J' WATER RESIST. OP. BR. ON WALLS
225-244	TYP. RENTAL	C.T.	COVER CT	PAINT S/K	PAINT S/K	*8'-0"	
325-344	TYP. RENTAL	C.T.	COVER CT	PAINT S/K	PAINT S/K	*8'-0"	
425-444	TYP. RENTAL	C.T.	COVER CT	PAINT S/K	PAINT S/K	*8'-0"	
TYPE	W.S.T.	CT WAINCOT	V.C.C.	VINYL WALL COVERING	F.F.P.	FIBER GLASS REINFORCED PANEL	
ABOVE	C.T.	CERAMIC TILE	MA.S.T.	VINYL COMPOSITION TILE	S/K	SPATTER / KNOCKDOWN	
			MA.S.T.	MEDIUM AGGREGATE SPRAY TEXTURE	A.C.T.	ACOUSTICAL CEILING TILE	

ROOM FINISH SCHEDULE NOTES:
 1. RUBBER TRANSITION STRIPS TO BE USED AS IT OCCURS.
 2. CORNER GUARDS IN ALL PUBLIC AREAS, TO MATCH ADJACENT WALL FINISH.

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

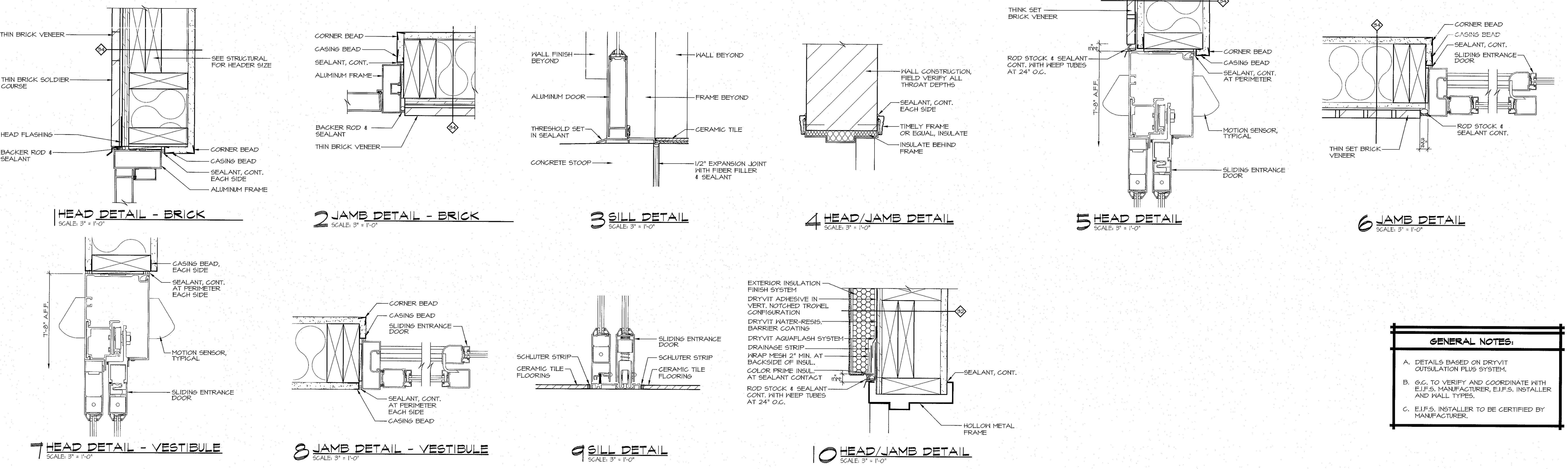
DOOR HARDWARE GROUPS

GROUP 1	GROUP 6.1	GROUP 12	GROUP 18
HINGE 4 1/2 X 4 1/2 CARDLOCK SUPPLIED - BY OTHERS CLOSER DOOR GUARD DOOR GUARD SHIM DOOR EDGE DOOR VIEWER DOOR VIEWER COVER STRAIGHT ROLLER STOP 3 FIN SMOKE GASKET BLACK RUBBER THRESHOLD VINYL DOOR SHOE DUST BOX	HINGE 4 1/2 X 4 1/2 CONNECTING LATCH CONNECTING DEADBOLT WALL STOP 3 FIN SMOKE GASKET VINYL DOOR SHOE UNNOTCHED	HINGE 4 1/2 X 4 1/2 PASSAGE LATCH WALL STOP SMOKE GASKET DUST BOX KICK PLATE	HINGE 4 1/2 X 4 1/2 NO CARDLOCK SUPPLIED CLOSER WALL STOP SMOKE GASKET DUST BOX KICK PLATE
GROUP 2	GROUP 7	GROUP 13	GROUP 19
HINGE 4 1/2 X 4 1/2 PRIVATE LOCK WALL STOP	HINGE 4 1/2 X 4 1/2 RIM EXIT DEVICE CLOSER MAGNETIC HOLD OPEN WALL STOP SMOKE GASKET KICK PLATE (10" X 40")	HINGE 4 1/2 X 4 1/2 LOCKSET CLOSER SMOKE GASKET WALL STOP	HINGE 4 1/2 X 4 1/2 RIM EXIT DEVICE CLOSER WALL STOP SMOKE GASKET KICK PLATE (10" X 40")
GROUP 3	GROUP 8	GROUP 14	GROUP 20
HINGE 4 1/2 X 4 1/2 LOCKSET CLOSER WALL STOP SMOKE GASKET STRAIGHT ROLLER STOP	HINGE 4 1/2 X 4 1/2 LOCKSET CLOSER SMOKE GASKET WALL STOP	HINGE 4 1/2 X 4 1/2 LOCKSET CLOSER SMOKE GASKET KICK PLATE (10" X 40")	HINGE 4 1/2 X 4 1/2 RIM EXIT DEVICE CLOSER WALL STOP SMOKE GASKET KICK PLATE (10" X 40")
GROUP 4	GROUP 9	GROUP 15	GROUP 21
HINGE 4 1/2 X 4 1/2 PRIVATE LOCK WALL STOP	HINGE 4 1/2 X 4 1/2 LOCKSET CLOSER SMOKE GASKET KICK PLATE (10" X 40")	HINGE 4 1/2 X 4 1/2 NO CARDLOCK SUPPLIED CLOSER WALL STOP SMOKE GASKET KICK PLATE (10" X 40")	MANUFACTURER STANDARD HINGES MAC LOCK FOR REMOTE CARD READER CLOSER RIM PANIC WEATHER STRIPPING THRESHOLD
GROUP 5	GROUP 10	GROUP 16	GROUP 22
HINGE 4 1/2 X 4 1/2 DUMMY TRIM MAGNETIC CATCH WALL STOP	HINGE 4 1/2 X 4 1/2 LOCKSET PASSAGE CLOSER SPRING HINGES WALL STOP SMOKE GASKET KICK PLATE	HINGE 4 1/2 X 4 1/2 LOCKSET CLASSROOM CLOSER WALL STOP SMOKE GASKET DUST BOX KICK PLATE (10" X 40")	HINGE 4 1/2 X 4 1/2 NO CARDLOCK SUPPLIED CLOSER WALL STOP SMOKE GASKET DUST BOX KICK PLATE (10" X 40")
GROUP 6	GROUP 11	GROUP 17	
SPRING HINGE 4 1/2 X 4 1/2 CONNECTING LATCH CONNECTING DEADBOLT WALL STOP 3 FIN SMOKE GASKET ADJUSTABLE BLACK THRESHOLD VINYL DOOR SHOE UNNOTCHED	HINGE 4 1/2 X 4 1/2 LOCKSET CLOSER WALL STOP SMOKE GASKET KICK PLATE	HINGE 4 1/2 X 4 1/2 NO CARDLOCK SUPPLIED CLOSER WALL STOP SMOKE GASKET DUST BOX KICK PLATE (10" X 40")	

DOOR / FRAME / HARDWARE SCHEDULE												
NO.	WIDTH	HEIGHT	FIN.	MAT'L.	FIN.	ELEV.	ELV.	MAT'L.	HEAD	ASSY.	FIN.	REMARKS
100A	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100B	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100C	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100D	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100E	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100F	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100G	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100H	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100I	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100J	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100K	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100L	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100M	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100N	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100O	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100P	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100Q	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100R	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100S	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100T	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100U	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100V	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100W	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100X	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100Y	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1
100Z	3'-0"	7'-0"	1	ALUM.	1	ALUM.	1	ALUM.	1	1	1	NOTE 1

- GENERAL NOTES:**
- ALL STAIR ENCLOSURE DOORS ARE REQUIRED TO MEET A MAX. TRANSMITTED TEMPERATURE AND POINT NOT TO EXCEED 450° F OVER AMBIENT TEMPERATURE AT 30 MINUTES.
 - ELECTRIC STRIKE REQUIRED FOR REMOTE CARD READER.
 - HARDWARE FOR ALUMINUM ENTRANCE, HINGES, CLOSERS, STOPS, THRESHOLD AND WEATHER STRIP BY DOOR MANUFACTURER. SEE SCHEDULE FOR EXIT HARDWARE. SEE SCHEDULE FOR DOORS WITH CARD READER. SLIDING DOORS TO HAVE BREAKAWAY EXIT.
 - EXTERIOR SLIDER DOOR 100A. PROVIDE TWO EACH CYLINDERS, BALANCE OF HARDWARE BY DOOR MANUFACTURER. SLIDING DOOR TO HAVE BREAKAWAY EXIT.
 - LOBBY / VESTIBULE SLIDER DOOR 100B. PROVIDE TWO EACH CYLINDERS, ONE EACH POWER SUPPLY WITH BATTERY BACKUP, ONE EACH CARD READER, ONE EACH INTERCOM SYSTEM, ONE EACH KEY SWITCH. BALANCE OF HARDWARE BY DOOR MANUFACTURER.
 - ELECTRIC CARD SWIPE SUPPLIER TO PROVIDE ALL REMOTE ACCESS KITS FOR REMOTE ENTRANCE DOORS CARD READERS.
 - CONTRACTOR AND DOOR SUPPLIER TO VERIFY ALL THROAT DEPTHS
 - MAGNETIC HOLD OPEN, TIED TO BUILDINGS FIRE ALARM SYSTEM.
 - GUESTROOM ENTRANCE DOORS SHALL HAVE A SOUND TRANSMISSION RATINGS OF NOT LESS THAN STC 26.
 - DOOR CLOSER TO OPEN 180°.
 - ANY DOOR THAT IS SANDED OR CUT OFF IS TO BE SEALED PRIOR TO INSTALLATION.
 - ALL DOORS WHICH NORMALLY SHOULD REMAIN CLOSED ARE TO HAVE DOOR CLOSERS.
 - THE THRESHOLDS AT THE MARBLE OR QUARRY FLOORS SHALL BE STANDARD MARBLE THRESHOLDS.
 - DOOR CLOSERS TO BE INSTALLED TO THE INSIDE OF THE DOOR & SCREWED INTO, NOT THROUGH THE DOOR.
 - ALL DOOR FRAME STOPS TO BE HELD 8" OFF THE FLOOR (TYPICAL).
 - EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
 - IN RATED CORRIDORS, PROVIDE TWENTY-MINUTE RATED DOOR ASSEMBLIES THAT MEET NFPA 252 OR UL-OC POSITIVE PRESSURE TESTING AND U.L. 1784 AS SMOKE AND DRAFT CONTROL DOORS WITH BOTTOM SEALS. THE LATTER WILL BE EVIDENCED WITH A TYPE S LABEL ON THE ASSEMBLY.
 - PROVIDE MAGNETIC CATCH AT DOOR HEAD OF GUEST ROOM CLOSERS.
 - ROOF ACCESS DOOR WITH KEYED LOCK. SEE ROOF PLAN FOR LOCATIONS.

GENERAL HARDWARE NOTES:	SAFETY PLATE GLASS NOTES:
1. HARDWARE SUPPLIER TO VERIFY HARDWARE GROUPS WITH THE OWNER VIA SHOP DRAWINGS.	IF CLOSEST EDGE OF GLASS IS WITHIN 24" OF DOOR, AND THE OTHER VIA SHOP DRAWINGS.
2. THE FOLLOWING LIST OF HARDWARE ITEMS IS ASSUMED TO BE COMPLETE. HOWEVER, THE OMISSION OF ANY ITEM(S) SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING ALL ITEMS REQUIRED FOR A COMPLETE HARDWARE PACKAGE, EXCEPT WHERE ITEMS ARE NOTED TO BE FURNISHED BY OWNER.	A. GLASS NEXT TO DOORS - BOTTOM EDGE OF GLASS IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE - ALWAYS USE SAFETY.
3. PROVIDE THRESHOLDS & WEATHER-STRIPPING FOR ALL EXTERIOR DOORS AND DOORS EXITING THE PREMISES.	B. GLASS BEYOND 24" FROM DOOR - SAFETY GLASS OR PERMANENT VISUAL BARRIER.
4. PROVIDE RUBBER SILENCERS (MUTES) AT ALL HOLLOW METAL DOOR FRAMES.	1. THE LOWEST EDGE OF GLASS IS LESS THAN 10" ABOVE THE WALKING SURFACE, AND
5. MASTERKEY ALL CYLINDER LOCKS AND FURTHER KEY ALL LOCKS AS DIRECTED BY OWNER.	2. THE GLASS IS LARGER THAN 9 SQ. FT., AND THERE IS A WALKING SURFACE ON
6. INSTALL DOOR CLOSERS SO THAT NO CLOSER, OR ARM, IS VISIBLE ON THE "SIGHT SIDE" OF THE DOOR, OR ON THE EXTERIOR OF THE BUILDING.	3. BOTH SIDES, EACH OF WHICH IS WITHIN 36" OF GLASS, AND THE HORIZONTAL
7. ALL DOORS TO RECEIVE LOCKING HARDWARE REQUIRED BY CODE.	4. PLANES OF SUCH WALKING SURFACES ARE WITHIN 12" OF EACH OTHER.
8. ALL CORRIDOR DOORS, INCLUDING THOSE DOORS IN THE LOBBY ON THE FIRST FLOOR, ARE REQUIRED TO BE SMOKE AND DRAFT CONTROL DOORS COMPLYING WITH UL 1784, SHALL BE LABELED, AND SHALL SHOW THE LETTER "S" ON THE FIRE RATING LABEL OF THE DOOR. THIS MARKING SHALL INDICATE THAT THE DOOR AND FRAME ASSEMBLY ARE IN COMPLIANCE WITH LISTED OR LABELED SMOKE GASKETING IS ALSO INSTALLED. SMOKE AND DRAFT CONTROL DOORS COMPLYING WITH UL 1784 SHALL BE LABELED AS SUCH. LABELS SHALL BE APPROVED AND PERMANENTLY AFFIXED. THE LABEL SHALL BE APPLIED AT THE FACTORY OR LOCATION WHERE FABRICATION AND ASSEMBLY ARE PERFORMED.	C. DOORS - ALL DOORS SHALL HAVE SAFETY PLATE GLASS
LOCKSET TYPES:	LOCKSET TYPES:
STOREROOM OR SERVICE: GUARDBOLT DEADLOCKS LATCHBOLT, LATCHBOLT BY INSIDE LEVER OR KEY, INSIDE LEVER RIGID AT ALL TIMES.	EXIT OR TRIM COMMUNICATING: GUARDBOLT DEADLOCKS LATCHBOLT, BLANK ROSE OUTSIDE, LATCHBOLT BY LEVER INSIDE, FOR 1 3/8" OR 1 3/4" THICK DOORS ONLY, MINIMUM CLEARANCE OF 1" REQUIRED BETWEEN DOORS.
ENTRANCE OR OFFICE: GUARDBOLT DEADLOCKS LATCHBOLT, LATCHBOLT BY EITHER LEVER, INSIDE LEVER IS LOCKED BY PUSH/BUTTON INSIDE LEVER. PUSH BUTTON IS RELEASED BY KEY OUTSIDE OR INSIDE. TURN BUTTON MUST BE RELEASED MANUALLY. KEY RETRACTS LATCHBOLT WHEN OUTSIDE LEVER IS LOCKED.	CLASSROOM: GUARDBOLT DEADLOCKS LATCHBOLT, LATCHBOLT BY EITHER LEVER, INSIDE LEVER IS LOCKED BY KEY. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATIVE.
PASSAGE: LATCHBOLT BY EITHER LEVER.	PRIVATE, BATHROOM OR BEDROOM: LATCHBOLT BY EITHER LEVER UNLESS OUTSIDE LEVER IS LOCKED BY KEY. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER. INSIDE LEVER ALWAYS OPERATIVE.
FIXED: BOTH LEVERS INOPERATIVE.	



GENERAL NOTES:

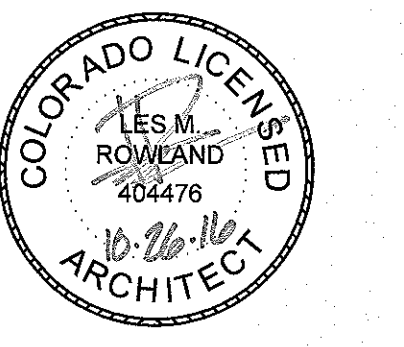
- DETAILS BASED ON DRYVIT OUTSULATION PLUS SYSTEM.
- 6.C. TO VERIFY AND COORDINATE WITH E.I.F.S. MANUFACTURER, E.I.F.S. INSTALLER AND WALL TYPES.
- E.I.F.S. INSTALLER TO BE CERTIFIED BY MANUFACTURER.

CANDLEWOOD SUITES
Pueblo, CO

PROJ. MGR.
PRO GROUP INC.
1017 W. 10th Ave. Pueblo, CO 81002

208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.9894

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ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

SHEET NAME: Door Schedule & Details

PROJECT NO.
W16006

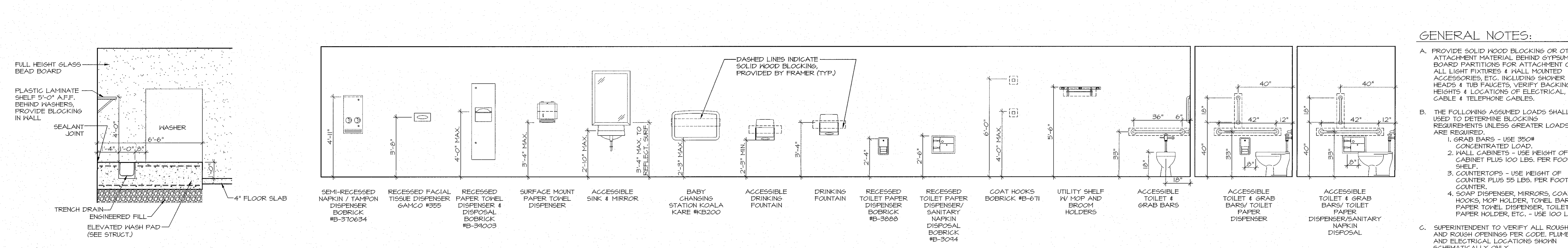
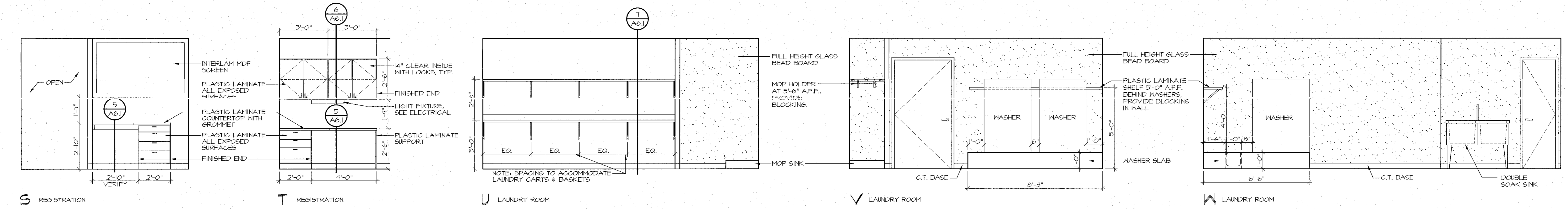
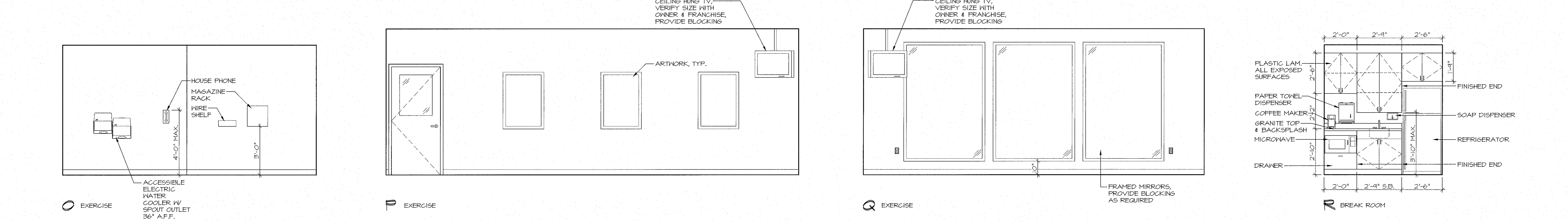
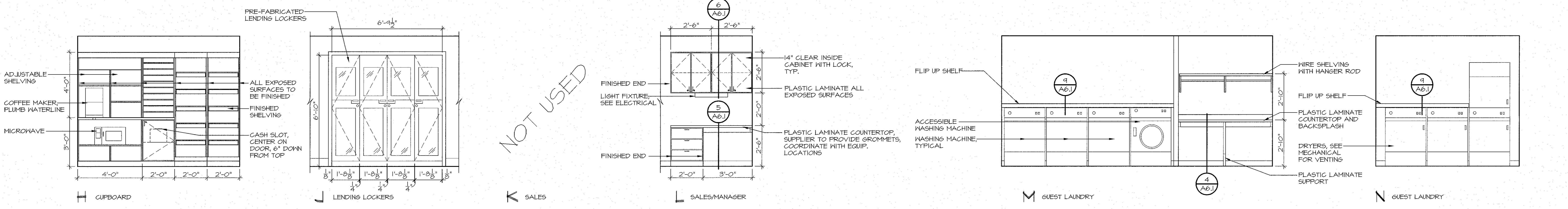
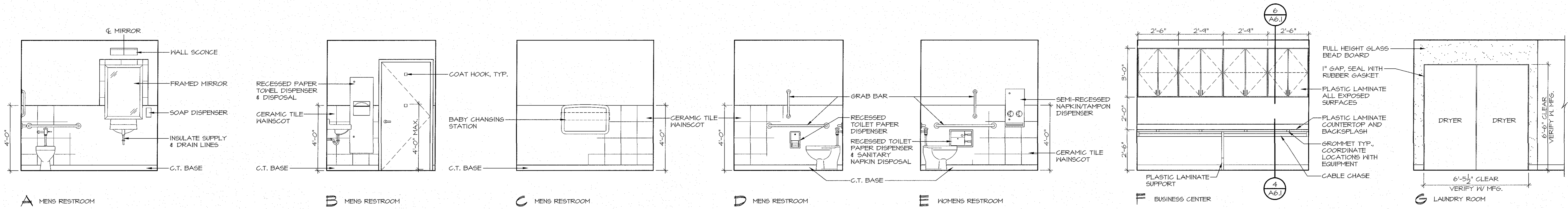
DRAWN BY:
CDS

CHECKED BY:
WLP

DATE:
10.26.2016

SHEET:

A9.2

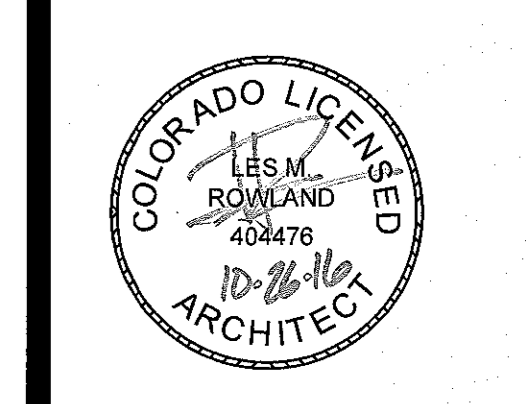


- GENERAL NOTES:**
- PROVIDE SOLID WOOD BLOCKING OR OTHER ATTACHMENT MATERIAL BEHIND GYPSUM BOARD PARTITIONS FOR ATTACHMENT OF ALL LIGHT FIXTURES & WALL MOUNTED ACCESSORIES, ETC. INCLUDING SHOWER HEADS & TUB FAUCETS, VERIFY BACKING HEIGHTS & LOCATIONS OF ELECTRICAL, CABLE & TELEPHONE CABLES.
 - THE FOLLOWING ASSUMED LOADS SHALL BE USED TO DETERMINE BLOCKING REQUIREMENTS UNLESS GREATER LOADS ARE REQUIRED.
 - GRAB BARS - USE 350# CONCENTRATED LOAD.
 - WALL CABINETS - USE HEIGHT OF CABINET PLUS 100 LBS. PER FOOT OF SHELF.
 - COUNTERTOPS - USE HEIGHT OF COUNTER PLUS 55 LBS. PER FOOT OF COUNTER.
 - SOAP DISPENSER, MIRRORS, COAT HOOKS, MOP HOLDER, TOWEL BAR, PAPER TOWEL DISPENSER, TOILET PAPER HOLDER, ETC. - USE 100 LBS.
 - SUPERINTENDENT TO VERIFY ALL ROUGH-IN AND ROUGH OPENINGS PER CODE, PLUMBING AND ELECTRICAL LOCATIONS SHOWN SCHEMATICALLY ONLY.
 - SUPERINTENDENT TO COORDINATE EXACT LOCATIONS WITH F.F.E. AND SUB-CONTRACTORS.

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

STANDARD MOUNTING HEIGHTS
SCALE: 3/8" = 1'-0"

CANDLEWOOD SUITES
Pueblo, CO
PROJ. MGR.
PRO GROUP INC.
208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894



ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

Interior Elevations

SHEET NAME:
PROJECT NO.
W16006
DRAWN BY:
CDS
CHECKED BY:
WLP
DATE:
10.26.2016
SHEET:

A10.1

- GENERAL DESIGN CRITERIA:
- CODES:
 - INTERNATIONAL BUILDING CODE, 2012
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION, LATEST EDITION
 - AMERICAN CONCRETE INSTITUTE, LATEST EDITION
 - AMERICAN WOOD COUNCIL, NATIONAL DESIGN SPECIFICATION, LATEST EDITION
 - COMPLY WITH ALL LOCAL CODES AND LAWS, INCLUDING DISA-REGULATIONS
 - LATERAL LOADS:
 - LATERAL SYSTEM- WOOD SHEARWALLS
 - BUILDING OCCUPANCY: II
 - SEISMIC:
 - SEISMIC DESIGN CATEGORY A
 - IMPORTANCE FACTOR $I_p = 1.00$
 - ACCELERATIONS: $S_{SI} = 0.17$ $S_{I1} = 0.062$
 - SITE CLASS: D
 - SPECTRAL: $S_{DS} = 0.182$ $S_{D1} = 0.099$
 - DESIGN BASE SHEAR $V = 39.2$ KIPS
 - SEISMIC RESPONSE COEFFICIENT $C = 0.08$
 - RESPONSE MODIFICATION FACTOR $R = 1.5$
 - ANALYSIS PROCEDURE:
 - EVALUATE LATERAL FORCE
 - WIND: BASIC WIND SPEED: 115 MPH
 - EXPOSURE: C
 - INTERNAL PRESSURE COEFFICIENT: ENCLOSED
 - COMPONENTS AND CLADDING:
 - WALLS (AREAS OF DISCONTINUITY): $4R = 4SFS$
 - WALLS (NON-DISCONTINUITY): $4R = 3RSPF$
 - ROOF (MAIN): $3RSPF$
 - ROOF (EDGE): $4RSPF$
 - ROOF (CORNER): $7RSPF$
- THIS ASSUMES AN INFLUENCE AREA OF 50 SQ. FT. INCREASE OF PRESSURE FOR OTHER INFLUENCE AREAS SHALL BE BY THE COMPONENT DESIGNER. THE USE OF ALTERNATE LOAD COMBINATIONS IN SECTION 1603.3.2 IS NOT ALLOWED.

- SUPERIMPOSED - DEAD LOADS:
 - ROOF:
 - TOP CHORD: 10PSF
 - BOTTOM CHORD: 10PSF
 - FLOOR:
 - TOP CHORD: 20PSF
 - BOTTOM CHORD: 10PSF
- LIVE LOADS:
 - GROUND SNOW LOAD: 20PSF
 - FLAT ROOF SNOW LOAD (MINIMUM) 14PSF
 - IMPORTANCE FACTOR $I_s = 1.00$
 - SNOW EXPOSURE FACTOR $e = 1.00$
 - THERMAL FACTOR $C_e = 1.10$
 - SNOW DRIFT LOAD: ASCE 7 (APPROPRIATE YEAR)
 - ROOF:
 - RESIDENCES: 20PSF
 - CORRIDOR & PUBLIC SPACES: 40PSF
 - STAIRS/EXITWAYS: 100PSF

- GENERAL:
- THE CONTRACT DRAWINGS REPRESENT THE COMPLETED STRUCTURE, AT TIME OF SUBSTANTIAL COMPLETION, UNLESS NOTED OTHERWISE, THEY DO NOT REPRESENT THE MEANS AND METHODS OF CONSTRUCTION, SEQUENCING AND MEANS-METHODS OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
 - TEMPORARY STRUCTURES AND SAFETY SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. TAKE ALL NECESSARY MEASURES TO KEEP THE STRUCTURE STABLE AND NOT IMPART EXCESS STRESSES. TEMPORARY MEASURES INCLUDE ALL TIMERS PRIOR TO SUBSTANTIAL COMPLETION, THESE SHALL INCLUDE, BUT ARE NOT LIMITED TO BRACING, GUYING, SHORING, PLACING, SCAFFOLDING, AND NETTING. PROTECT ALL WORKERS AND OTHER PERSONS DURING CONSTRUCTION. SITE OBSERVATION VISITS BY THE DESIGN TEAM WILL NOT INCLUDE REVIEW OF ANY TEMPORARY ITEMS.
 - FIELD VERIFY ANY EXISTING DIMENSIONS, SIZES, AND THICKNESSES SHOWN ON DRAWINGS. IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - DETAILS AND NOTES SHOWN ON THE STRUCTURAL DOCUMENTS ARE TYPICAL FOR SIMILAR SITUATIONS IN THE PROJECT.
 - OPTIONS, IF SHOWN, ARE FOR THE CONVENIENCE OF THE CONTRACTOR.
 - THE COST OF ADDITIONAL DESIGN WORK NECESSITATED BY SEQUENCING OR CONSTRUCTION ERRORS SHALL BE PAID BY THE CONTRACTOR.
 - AN ENGINEERING PROVIDED BY OTHERS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

- SPECIAL INSPECTION:
- THE OWNER SHALL EMPLOY SPECIAL INSPECTORS TO PERFORM SPECIAL INSPECTION. BASED ON IBC2012, SPECIAL INSPECTION WILL BE REQUIRED FOR THE FOLLOWING:
- SOIL TECHNICAL INVESTIGATIONS
 - CAST-IN-PLACE CONCRETE
 - STRUCTURAL STEEL

- FOOTING AND FOUNDATIONS:
- NET ALLOWABLE BEARING PRESSURE:
 - COLUMN FOOTINGS: 3000PSF
 - WALL FOOTING: 3000PSF
 - CENTER FOOTINGS UNDER WALLS AND COLUMNS, UNLESS NOTED OTHERWISE.
 - CONCRETE SHALL NOT BE CAST ON FROZEN GROUND OR GROUND CONTAINING STANDING WATER. OWNER'S SOILS CONSULTANT SHALL REVIEW SUBGRADE PRIOR TO CASTING OF FOOTINGS AND SLABS. PROTECT SOIL FROM FREEZING AFTER CASTING FOOTING.
 - UNLESS NOTED OTHERWISE, SLABS ON GRADE SHALL CONTAIN FIBERMESH REINFORCEMENT. SLAB SHALL BE PLACED OVER VAPOR BARRIER AND MINIMUM COMPACTED GRANULAR FILL. OWNER'S SOILS CONSULTANT SHALL VERIFY SUBGRADE PRIOR TO PLACEMENT OF ANY FILL BELOW SLABS.
 - PLACE REINFORCING IN ALL FOOTINGS PRIOR TO CASTING. FIBERING OR REINFORCING INTO FOOTINGS AFTER CASTING IS NOT PERMITTED. HOLD REINFORCING IN PLACE DURING CASTING OPERATIONS. CONSOLIDATE CONCRETE.
 - BASEMENT WALLS SHALL NOT BE BACKFILLED UNTIL LOWER LEVEL SLAB AND FIRST FLOOR STRUCTURE IS IN PLACE, UNLESS BRACING IS PROVIDED.
 - BACKFILL PLACED AGAINST FOUNDATION WALLS SHALL BE CLEAN, FINE DRAINING GRANULAR MATERIAL FOR A MINIMUM OF 2FT AGAINST WALL. COMPACT SOILS ADJACENT TO FOUNDATION WALLS USING HAND EQUIPMENT.
 - STEPS IN FOOTING, FOUNDATION WALLS, AND GRADE BEAMS SHALL BE COORDINATED WITH WALL FORMING SYSTEM.
 - SEE ARCHITECTURAL DRAWINGS FOR OTHER REVEALS, INSERTS, EMBEDS, AND BOLTS.
 - PIPING RUNNING BELOW FOOTING SHALL BE PLACED PRIOR TO FOOTING OPERATIONS AND THE HOLD FILLED WITH LEAN CONCRETE.

- CONCRETE:
- CONCRETE STRENGTHS: 145PCF CONCRETE DENSITY. MINIMUM 28-DAY CONCRETE STRENGTHS SHALL BE AS FOLLOWS:

TYPICAL UNLESS NOTED OTHERWISE:	4000PSI
FOOTINGS:	3500PSI
FOUNDATION WALLS:	3500PSI
SLABS ON GRADE:	4000PSI
PIER:	3500PSI
 - ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF ACI 301, 306, 308, 311, 315, 318 AND 347.
 - CONCRETE MIX DESIGN SHALL CONFORM TO ACI 303 AND 318. WATER SHALL NOT BE ADDED ON SITE, UNLESS CALLED OUT ON THE APPROVED MIX DESIGN.
 - CONCRETE SLABS ON GRADE SHALL HAVE CONSTRUCTION JOINTS OR CUT JOINT AT 12FT O.C. MAXIMUM IN EACH DIRECTION. CUT SLAB BETWEEN 4 AND 12 HOURS AFTER CASTING SLAB. ISOLATE COLUMNS, WALLS, AND PIERS FROM SLABS AS SHOWN ON DRAWINGS. DO NOT CUT SLABS ON DECK OR PRECAST TOPPING SLABS.
 - SEE ARCHITECTURAL DRAWINGS FOR SLAB DEPRESSIONS. FITCH SLAB TO DRAIN WITHOUT REDUCING THICKNESS OF CONCRETE SECTION.
 - PROVIDE CONSTRUCTION JOINTS IN EXPOSED WALLS AT A MAXIMUM SPACING OF 40FT. COORDINATE LOCATION OF JOINT WITH ARCHITECTURAL DRAWINGS. PROVIDE CONSTRUCTION JOINTS IN UNEXPOSED WALLS AT A MAXIMUM SPACING OF 60FT.
 - ALL JOINTS IN CONCRETE CONSTRUCTION SHALL BE MADE WITH A MINIMUM 24 HOUR PROPER CONSOLIDATE CONCRETE WHEN CASTING.
 - DO NOT PLACE CONDUIT, PIPES, OR DUCTS WITHIN COLUMNS, BEAMS, WALLS, OR SLAB SYSTEMS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER.

- REINFORCING BARS:
- BAR DETAILING SHALL CONFORM TO THE LATEST ACI DETAILING MANUAL. PROVIDE COVER TO REINFORCEMENT AS LISTED IN ACI 318.
 - STEEL SHALL BE AS FOLLOWS:
 - REBAR: ASTM A605- GR 60
 - WELDABLE REINFORCING: A706, GR 60
 - WELDED WIRE FABRIC: ASTM A185
 - ALL FIELD BENDING OF REINFORCING SHALL BE DONE COLD. DO NOT HEAT REINFORCEMENT.
 - BAR LAPS SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE. STAGGER SPICES OF REINFORCING BY 24 INCHES AT ALTERNATE BARS.
 - BEAMS/JOIST TOP AND BOTTOM BARS - 40D
 - COLUMN/WALL VERTICAL BARS - 40D
 - TIES - 30D
 - HOLD REINFORCING IN PLACE DURING CASTING OPERATIONS.

- MASONRY:
- HOLLOW CONCRETE MASONRY UNITS: NORMAL WEIGHT, PM-2000, MORTAR TYPE S, GROUT STRENGTH - 2000PSI.
 - MASONRY CONSTRUCTION SHALL CONFORM WITH THE LATEST EDITION OF ACI 530.1. SEE FIG. 2012 FOR HOT AND COLD WEATHER PROCEDURES.
 - CNTU SHALL BE Laid IN A RUNNING-BOND PATTERN.
 - PROVIDE BOND BEAMS WITH #4 AT ALL FLOOR LINES, ROOF LINES, TOP OF WALL AND AT 12" O.C. MAXIMUM SPACING IN WALL.
 - PROVIDE REINFORCING AT CENTER OF CMU CONSTRUCTION, OR AS INDICATED ON STRUCTURAL DRAWINGS. HOLD REINFORCING IN PLACE DURING GROUTING OPERATIONS. FILL ALL REINFORCED CELLS WITH GROUT. FILL ALL CMU CELLS BELOW GRADE. SEE DRAWINGS FOR OTHER GROUTING CONSOLIDATED GROUT.
 - GROUT CELLS FLOOR-TO-FLOOR AT JAMBS OF OPENINGS.
 - LAP BARS 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
 - PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. MAX SPACING PER SPECIFICATION.
 - HIGH LIFT GROUTING WILL NOT BE PERMITTED WITHOUT AN APPROVED WRITTEN PROCEDURE SUBMITTED THROUGH THE ARCHITECT.
 - USE GROUTED KEYWAYS OR PREMANUFACTURED JOINTS AT ALL CONTROL JOINTS.
 - DO NOT PLACE CONDUIT, CABLES, OR OTHER EMBEDDED ITEMS IN GROUTED CELLS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
 - LOCATE CONTROL JOINTS IN CMU AT A MAXIMUM SPACING OF 20FT, UNLESS NOTED OTHERWISE. LOCATE CONTROL JOINTS IN EXTERIOR MASONRY PER ARCHITECTURAL DRAWINGS.
 - CONTINUE REINFORCING THROUGH CONTROL JOINTS. WRAP REBAR WITH BOND-BREAKING TAPE 2" O.C. EACH SIDE OF JOINT. DO NOT SPLICE REINFORCING WITHIN 4FT OF JOINTS.

UNTELS:

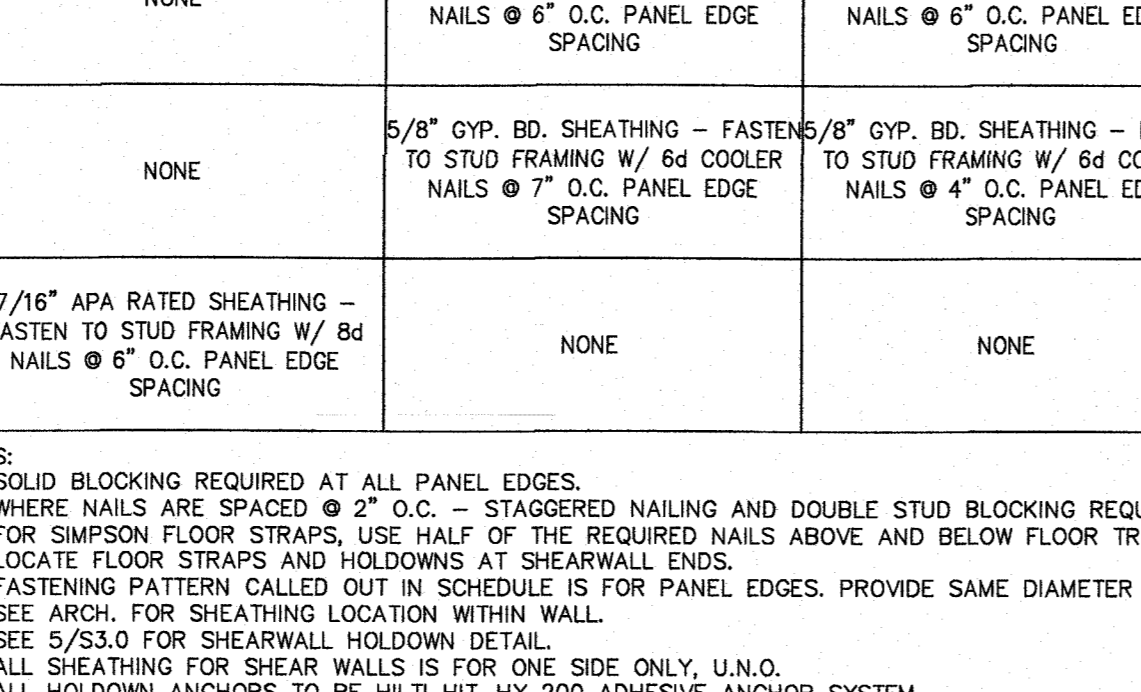
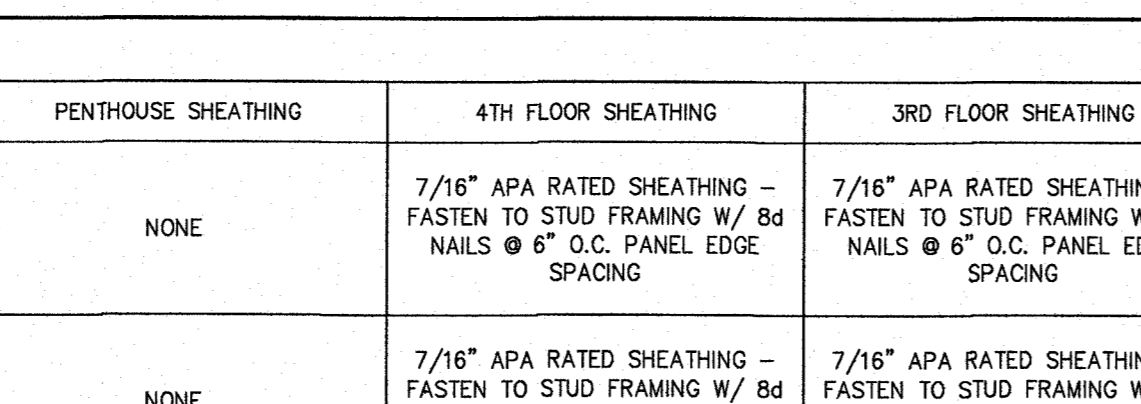
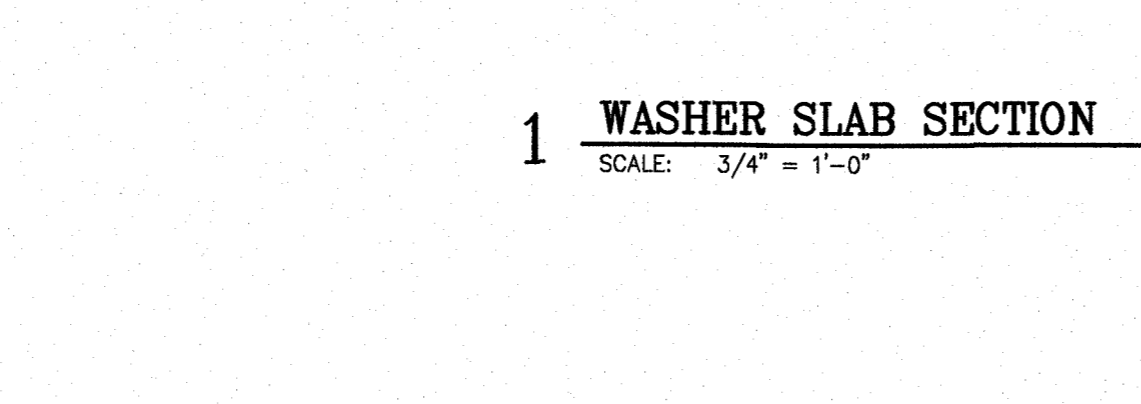
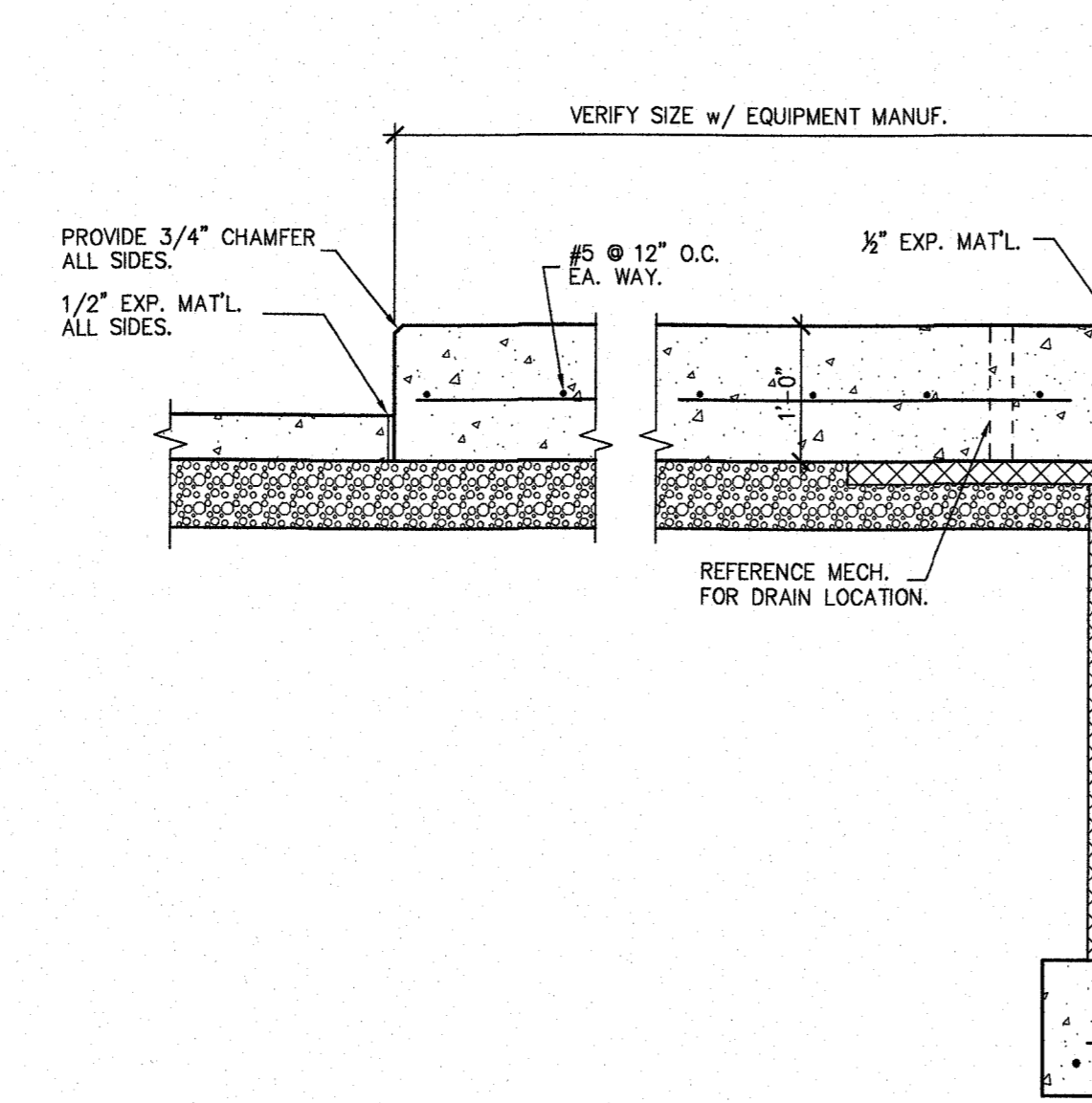
- UNTELS SHALL BE PLACED ABOVE ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION.
- UNTELS NOT SHOWN ON THE CONSTRUCTION DRAWINGS SHALL BE AS FOLLOWS, FOR EVERY 4IN NOMINAL THICKNESS OF MASONRY:

PIERS:	UNTEL:
0/2FT	1" PLATE, OR BOND BEAM WITH #4
2FT-4FT	1.5X3.5X1/4"
4FT-6FT	1.5X3.5X1/4" LVL
6FT-8FT	1.5X3.5X1/4" LVL
- BACK-TO-BACK ANGLES SHALL BE WELDED TOGETHER WITH 2" WELD AT 12" O.C.
- STEEL UNTELS SHALL HAVE A MINIMUM OF 6" BEARING ON FULLY GROUTED CELL.
- GROUT ALL CMU CORES SOLD UNDER UNTEL, BEARING, BEAMS AND BEARING PLATES.
- GALVANIZE ALL STEEL EXPOSED TO WEATHER.

STRUCTURAL STEEL:

- STEEL SHALL BE DETAIL, FABRICATED AND ERRECTED PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- HIGH STRENGTH BOLTS SHALL BE INSTALLED PER AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
- PROPERTIES:
 - ROLLED W SHAPED MEMBERS: ASTM A992
 - STEEL TUBES: ASTM A500, GRADE B
 - STEEL PIPES: ASTM A53, GRADE B
 - STEEL ANGLES, CHANNELS, PLATES: ASTM A36
- ANCHOR BOLTS: ASTM A307
- SHAKE SHEAR CONNECTIONS NOT FULLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE SELECTED BY THE STEEL FABRICATOR FROM APPROPRIATE AISC LOAD TABLES USING END REACTION SHOWN ON PLANS. DOUBLE ANGLE, SINGLE ANGLE, OR WELDED SHEAR PLATE CONNECTIONS SHALL BE USED. BOLTED CONNECTIONS SHALL USE A MINIMUM OF 3 BOLTS.
- ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE IN THAT TYPE OF JOINT. WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE. IN LIEU OF AWS WELDING CERTIFICATE, WELDERS EMPLOYED ON THE WORK MAY PROVIDE WELDING TESTS THAT HAVE BEEN PERFORMED WITHIN THE LAST 12 MONTHS.
- UNLESS NOTED OTHERWISE, WELDS SHALL BE 3/16" THROAT THICKNESS. ALL WELDS SHALL USE E70XX ELECTRODES.
- PAINT STEEL EXPOSED TO VIEW WITH MANUFACTURER'S STANDARD PRIMER. DO NOT PRIME STEEL RECEIVING FIRE PROOFING, OR AT WELDS, IF STEEL MEMBERS ARE NOT EXPOSED TO VIEW, CONTRACTOR MAY ELECT TO NOT PRIME THIS STEEL. GALVANIZE ALL STEEL EXPOSED TO WEATHER.
- HEADED STEEL STUDS SHALL BE PLACED ON BEAMS IN FIELD, ARE WELDED THROUGH METAL FLOOR DECK. SEE STUD REPLACEMENT DETAIL.
- DO NOT FIELD TOUCH UP HOLES OR NOTCHES IN STEEL MEMBERS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- BOLTS SHOWN ON STRUCTURAL DRAWINGS SHALL BE "N" DIAM, A325-N BOLTS UNLESS NOTED OTHERWISE. USE TWIST-OFF TYPE BOLTS FOR CONNECTIONS REQUIRING FULLY TIGHTENED CONDITIONS.
- TURNISH AND INSTALL OTHER MISCELLANEOUS STEEL AS CALLED OUT BY ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- PROVIDE 5000 PSI NON-SHRINK GROUT UNDER BASE PLATES AND BEARING PLATES WHERE INDICATED. ANCHOR BOLTS SHALL BE EMBEDDED 12" (DIAM OF BOLT) MEASURED TO UNDERSIDE OF HEAD.

- WOOD:
- WOOD CONSTRUCTION SHALL COMPLY WITH IBC 2012, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, AND THE AMERICAN WOOD COUNCIL.
 - MEMBERS PROPERTIES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
 - ROOF SHEATHING: 3/4" APA RATED PLYWOOD SHEATHING
 - FLOOR SHEATHING: 5/8" APA RATED PLYWOOD SHEATHING
 - WALL SHEATHING: 1/2" APA RATED PLYWOOD OR OSB SHEATHING
 - WALL SHEATHING: 15/32" APA RATED PLYWOOD OR OSB SHEATHING
 - ZM THROUGH 2X12: NO. 2, SPRUCE-PINE-FIR #1/#2 (OR EQUAL)
 - LAMINATED VENEER LUMBER (LVL): 5.1, 5.0, 5.0, 5.0 (PSF - 2400PSF)
 - DO NOT DRILL OR NOTCH STRUCTURAL ELEMENTS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
 - CONNECTIONS NOT SHOWN SHALL BE ESTABLISHED PER TABLE 2304.1 IN IBC 2012.
 - PLYWOOD INDICATED AS RATED SHEATHING, SHALL BEAR THE APPROPRIATE MARK OF THE AMERICAN PLYWOOD ASSOCIATION. ALL WOOD MEMBERS SHALL BEAR THE APPROPRIATE MARK OF THE APPROPRIATE ACCREDITING AGENCY.
 - HOLE FOR BOLTS SHALL BE MATCH DRILLED IN FIELD TO ENSURE PROPER ALIGNMENT. PROVIDE WASHERS AT ALL BOLT LOCATIONS.
 - NAIL SHEATHING FOR SHEAR WALLS WITH 100 MILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. IN THE FIELD. NAIL SHEATHING FOR FLOORS WITH 100 MILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. IN THE FIELD. PROVIDE BLOCKING AT PANEL EDGES, STAGGER EDGES OF PANELS.
 - PROVIDE 2 NAIL HEIGHT STUDS AT JAMBS OF OPENINGS, UNLESS NOTED OTHERWISE. PROVIDE 1 STUD UNDER JOIST BEARINGS AND 1 STUD UNDER TRUSS BEARINGS, UNLESS NOTED OTHERWISE.
 - CONNECT FRAMING MEMBERS WITH APPROVED LIGHT-GAUGE CONNECTORS FROM SIMPSON STRONG-TIE, OR EQUAL. CONNECT PER MANUFACTURER'S INSTRUCTIONS.
 - FOR MEMBERS EXPOSED TO WEATHER, NAILS, SCREWS AND BOLTS LESS THAN "N" DIAM SHALL BE STAINLESS STEEL. GREATER THAN "N" SHALL BE GALVANIZED OR STAINLESS STEEL.
 - PROVIDE BRIDGING AT 8FT O.C. FOR FLOOR MEMBERS 12IN NOMINAL OR GREATER. BRIDGING SHALL BE METAL OR L3X MEMBERS.
 - MINIMUM ANCHORAGE OF SHEAR WALLS SHALL BE WITH 1/2IN ANCHOR BOLT AT 2FT O.C.
 - DESIGN, FABRICATE, AND ERECT PLATE-CONNECTED WOOD TRUSSES TO WITHSTAND LOADS SHOWN IN (DESIGN CRITERIA), ACCORDING TO RULES ESTABLISHED BY TR:
 - SHOP DRAWINGS SHALL INCLUDE STRUCTURAL ANALYSIS STAMPED BY A LICENSED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED.
 - ALL TEMPORARY AND PERMANENT BRACING SHALL BE DESIGNED PER TR RECOMMENDATIONS.
 - STONE TRUSSES ON SITE IN A MANNER TO MINIMIZE WARPING.
 - DEFLECTION CRITERIA:
 - TOTAL LOAD: L/240
 - LIVE LOAD: L/360



HEADER SCHEDULE

MARK	SIZE	BRG STUDS	KING STUDS	REMARKS
H-1	(2) 2X10	1	2	
H-2	(2) 2X10	2	2	
H-3	(2) 2X10	2	3	
H-4	(3) 2X10	2	2	
H-5	(3) 2X12	2	2	
H-6	(3) 2X12	2	3	
H-7	(3) 1-3/4"x9-1/4"	2	2	1.9E MICROLLAM LVL
H-8	(3) 1-3/4"x9-1/4"	2	3	1.9E MICROLLAM LVL
H-9	(3) 1-3/4"x9-1/4"	2	4	1.9E MICROLLAM LVL
H-10	(3) 1-3/4"x11-1/4"	2	4	1.9E MICROLLAM LVL

NOTES:

- ALL 2X12 SAW LUMBER TO BE SPF SELECT STRUCTURAL (OR BETTER), ALL OTHER SAW LUMBER TO BE SPF #2 (OR BETTER) UNL.O.
- PROVIDE INSULATION BETWEEN HEADER PLYS IN EXTERIOR WALLS, TYP.
- UPSET HEADERS DON'T REQUIRE KING STUDS.
- KING & BRG STUDS TO MATCH SIZE/GRADE OF ADJACENT FRAMING.

FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F1	6'-0"x5'-0"x1'-0"	(6) #5x4'-6" E.W.
F2	4'-0"x4'-0"x1'-0"	(5) #5x3'-6" E.W.
F3	4'-0"x4'-0"x1'-0"	(5) #5x3'-6" E.W.

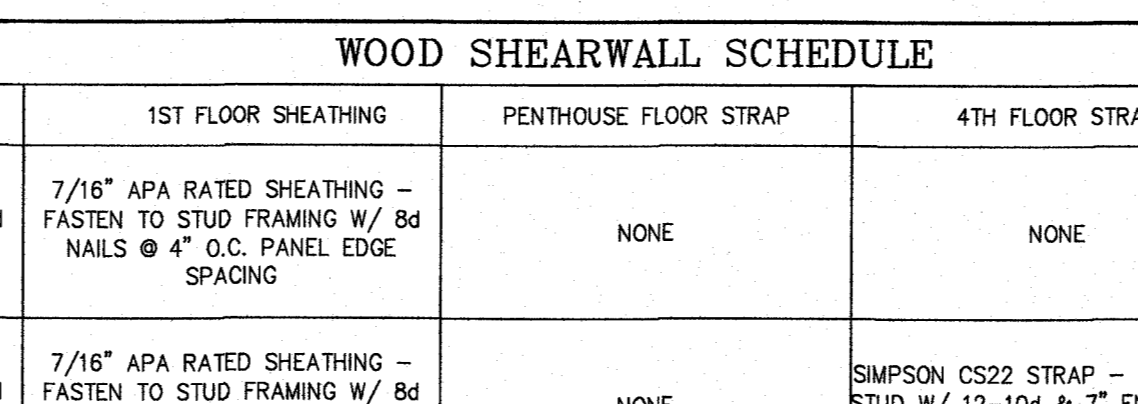
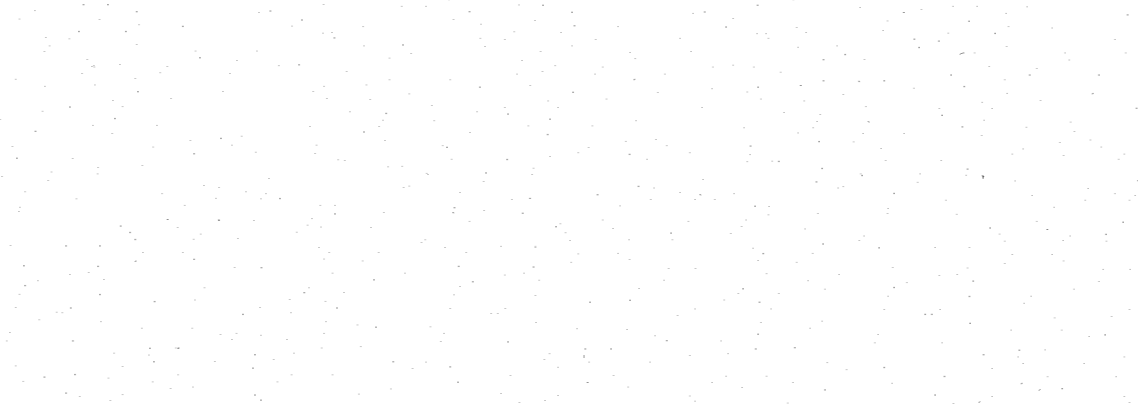
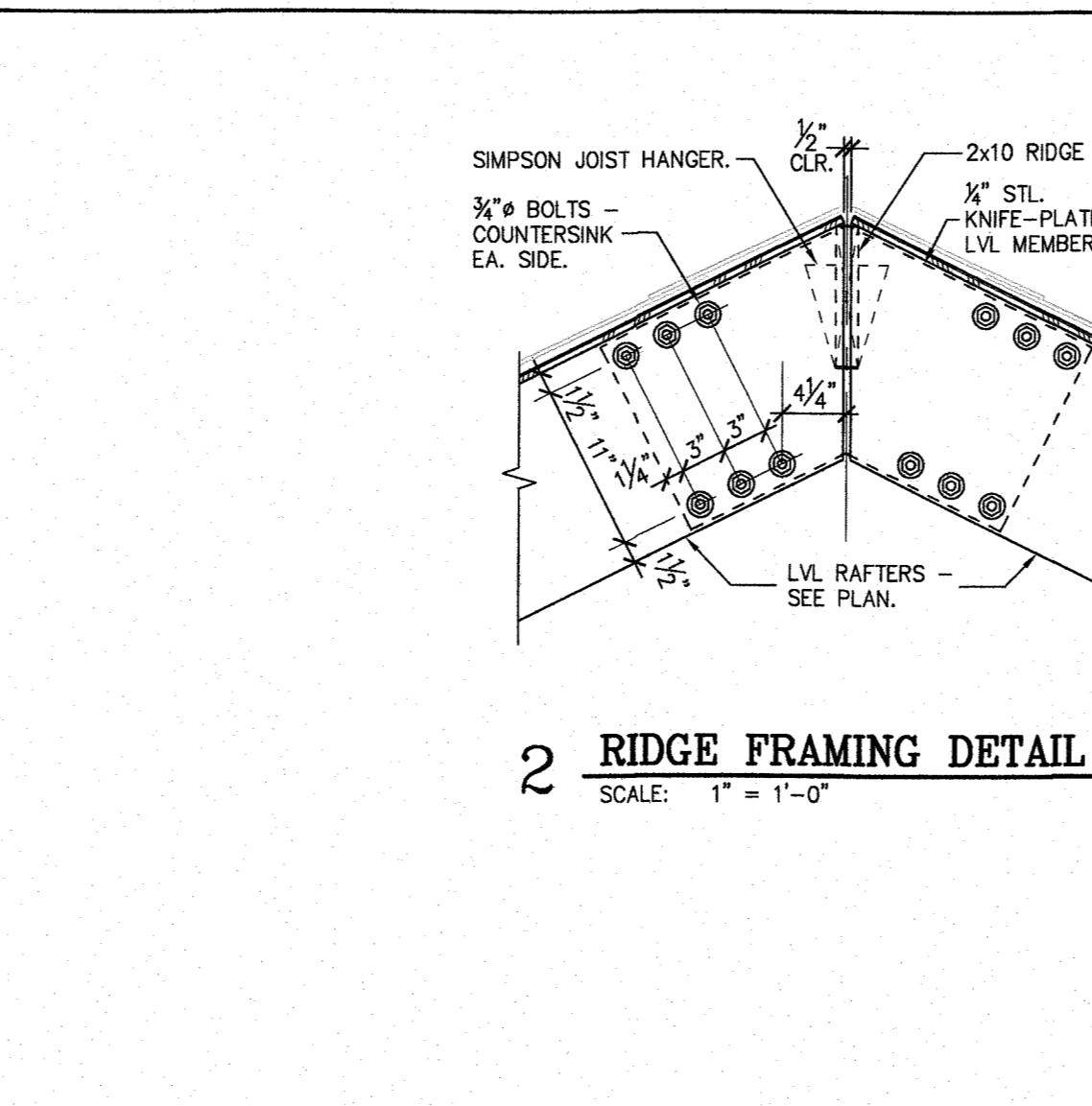
PIER SCHEDULE

MARK	SIZE	V. REINF.	TIES	TOP EL.	REMARKS
P1	16"x16"	4-#8	5-#4	99'-4"	

COLUMN SCHEDULE

MARK	SECTION	BASE PLATE		ANCHOR BOLTS	REMARKS
		SIZE	DETAIL		
C-1	HSS 5x5x1/4"	11"x11"	I	(4) 3/8" x 9" EMBED.	
C-2	HSS 4x4x1/4"	10"x10"	I	(4) 3/8" x 9" EMBED.	
C-3	HSS 4x4x1/4"	10"x3/4"x10"	II	(4) 3/8" x 9" EMBED.	

BASEPLATE TYPE:

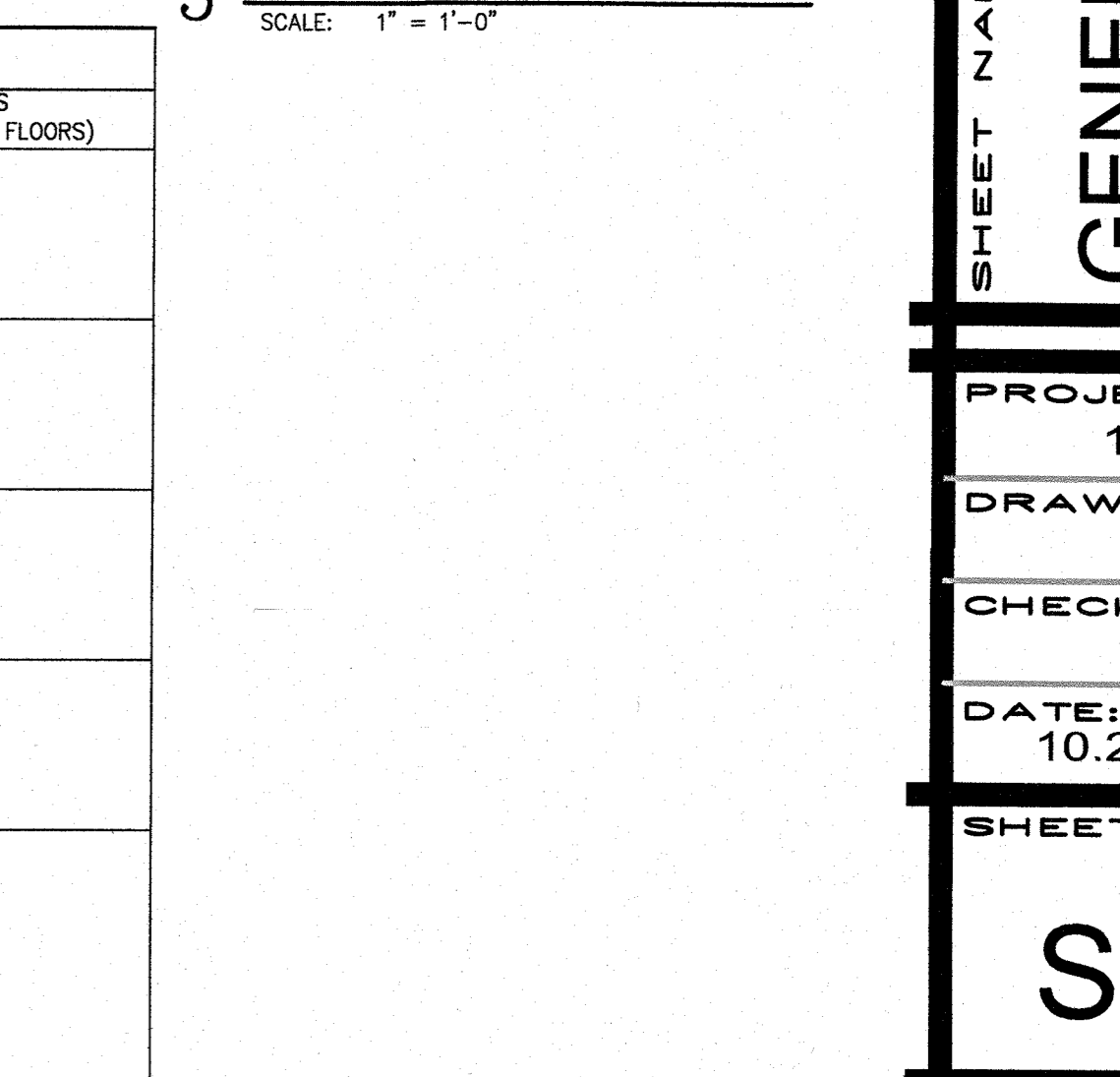
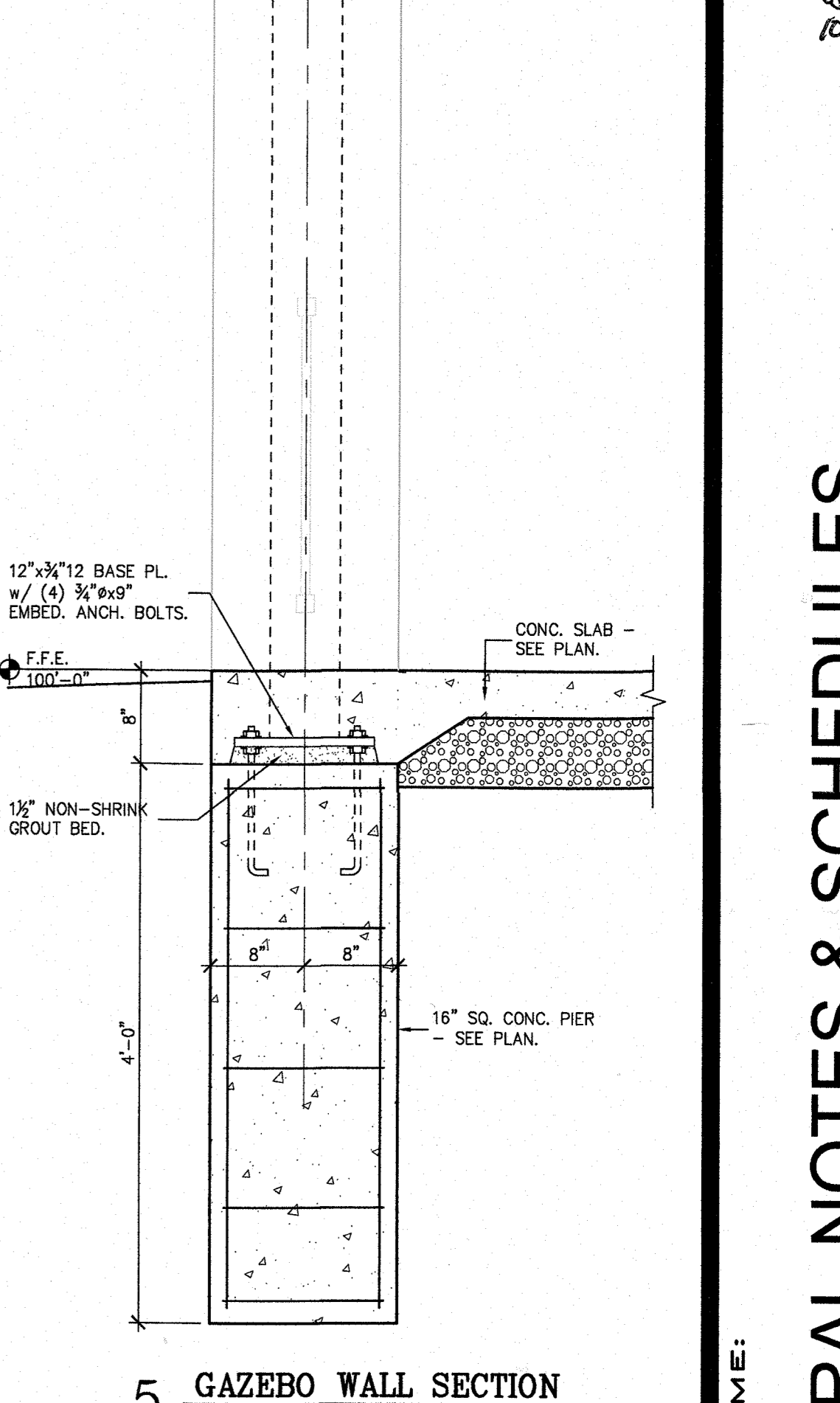
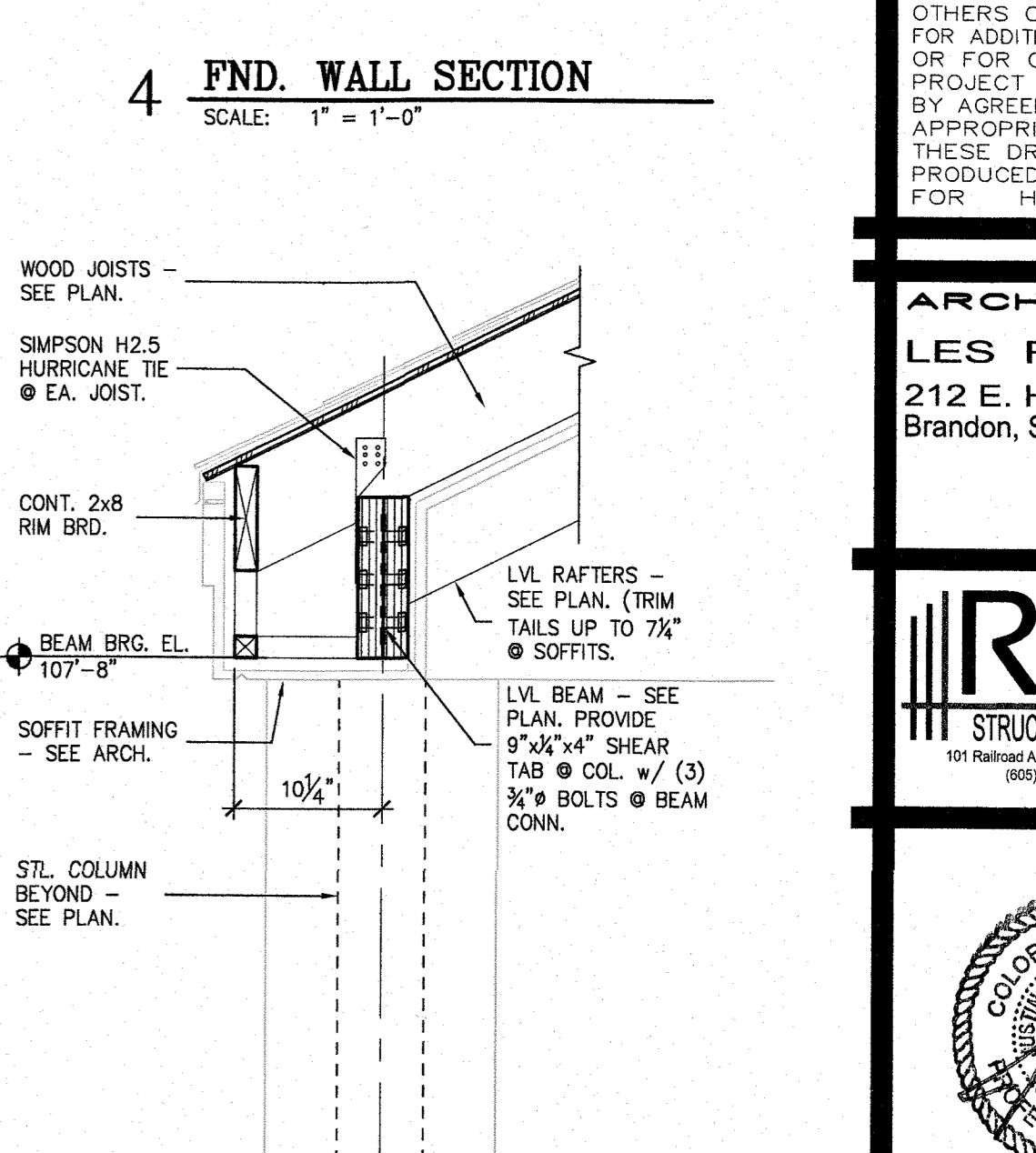
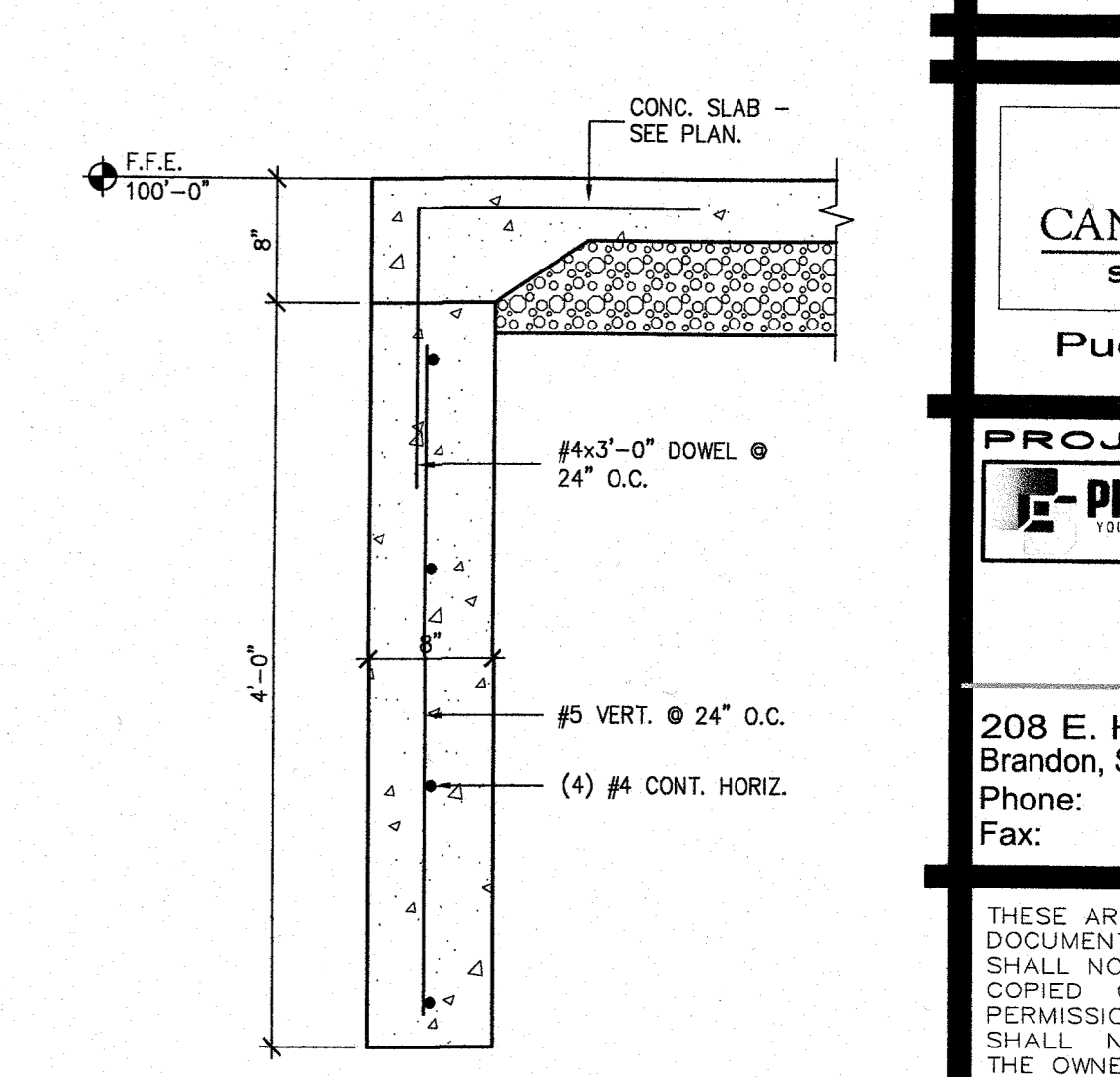
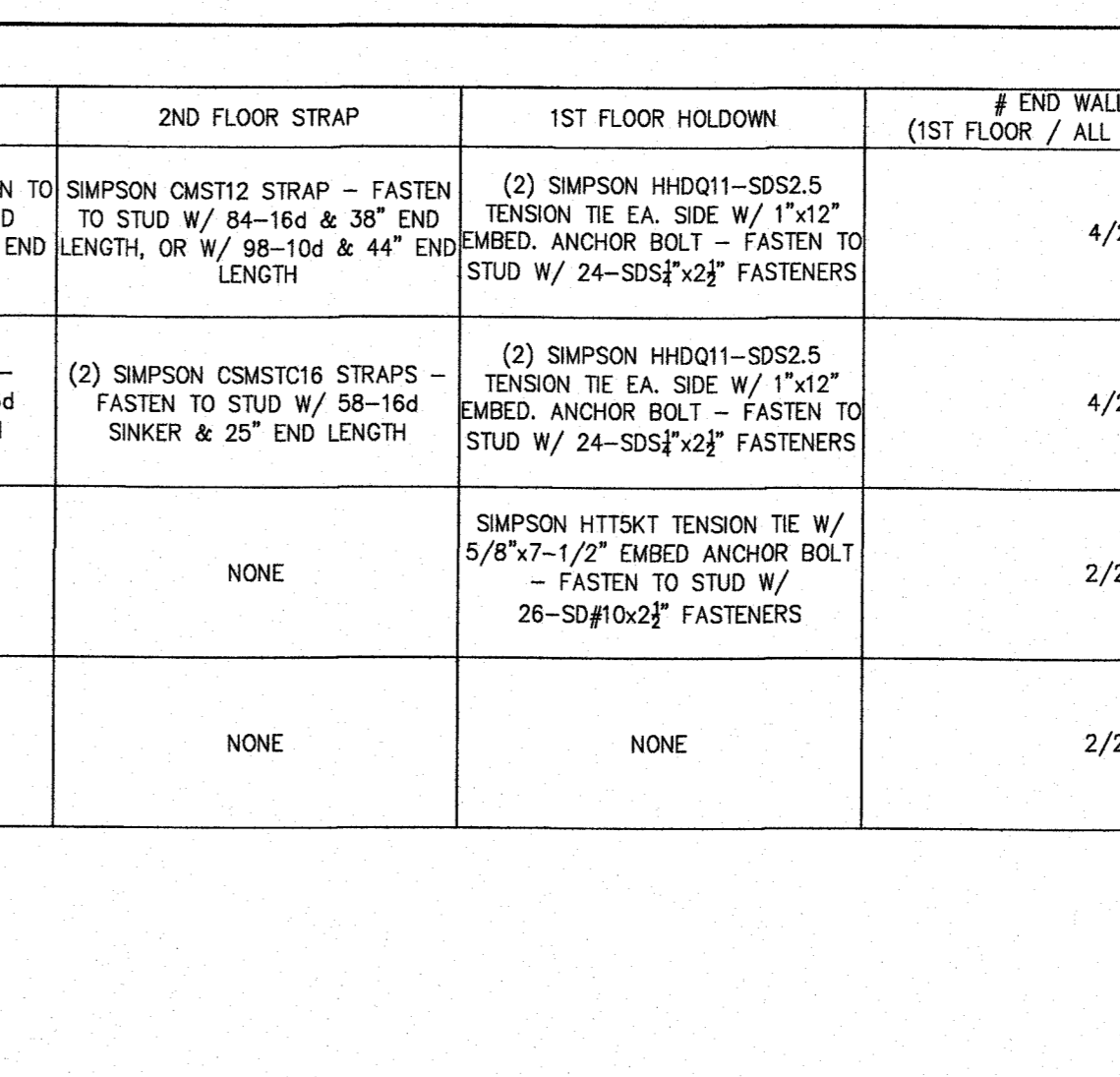
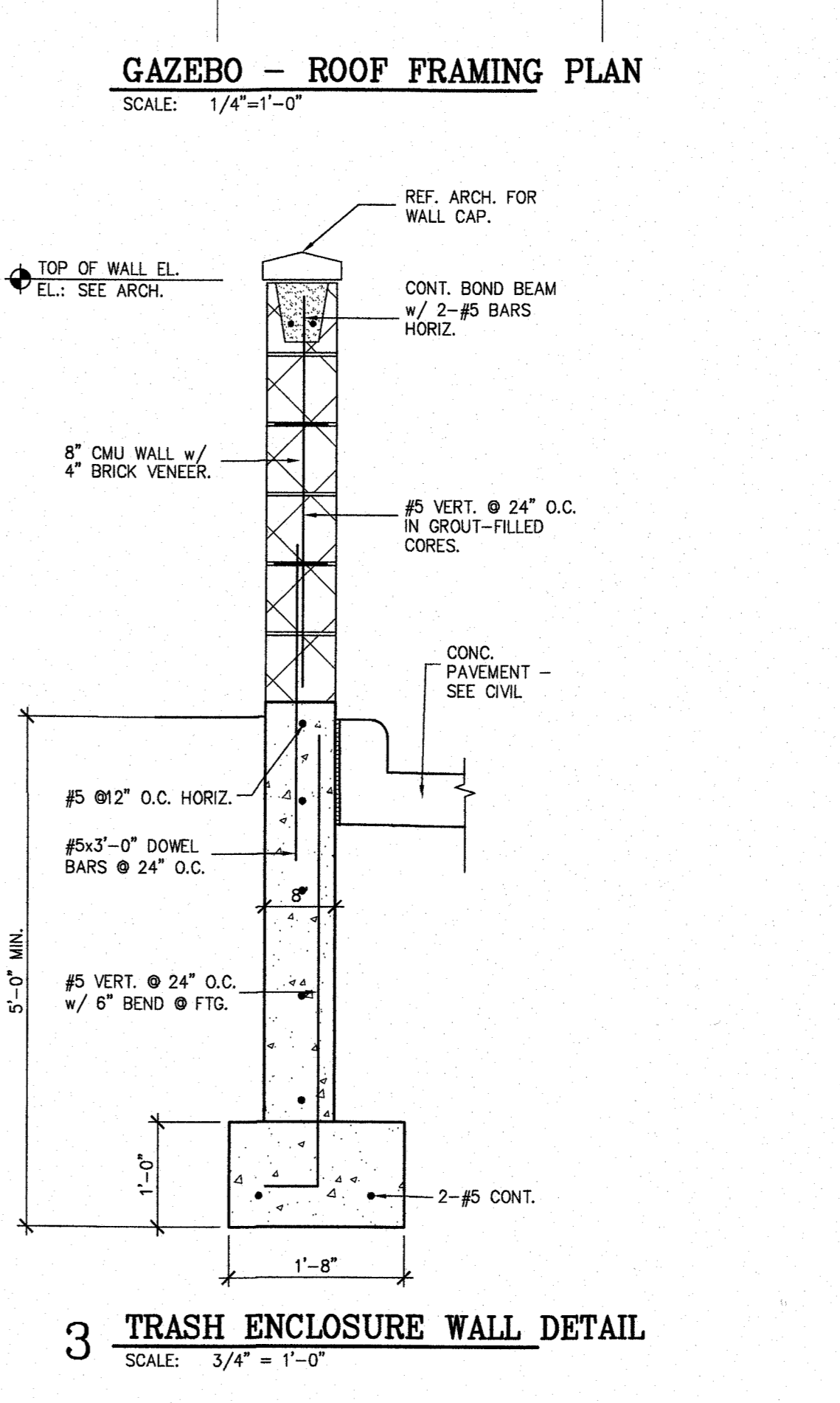
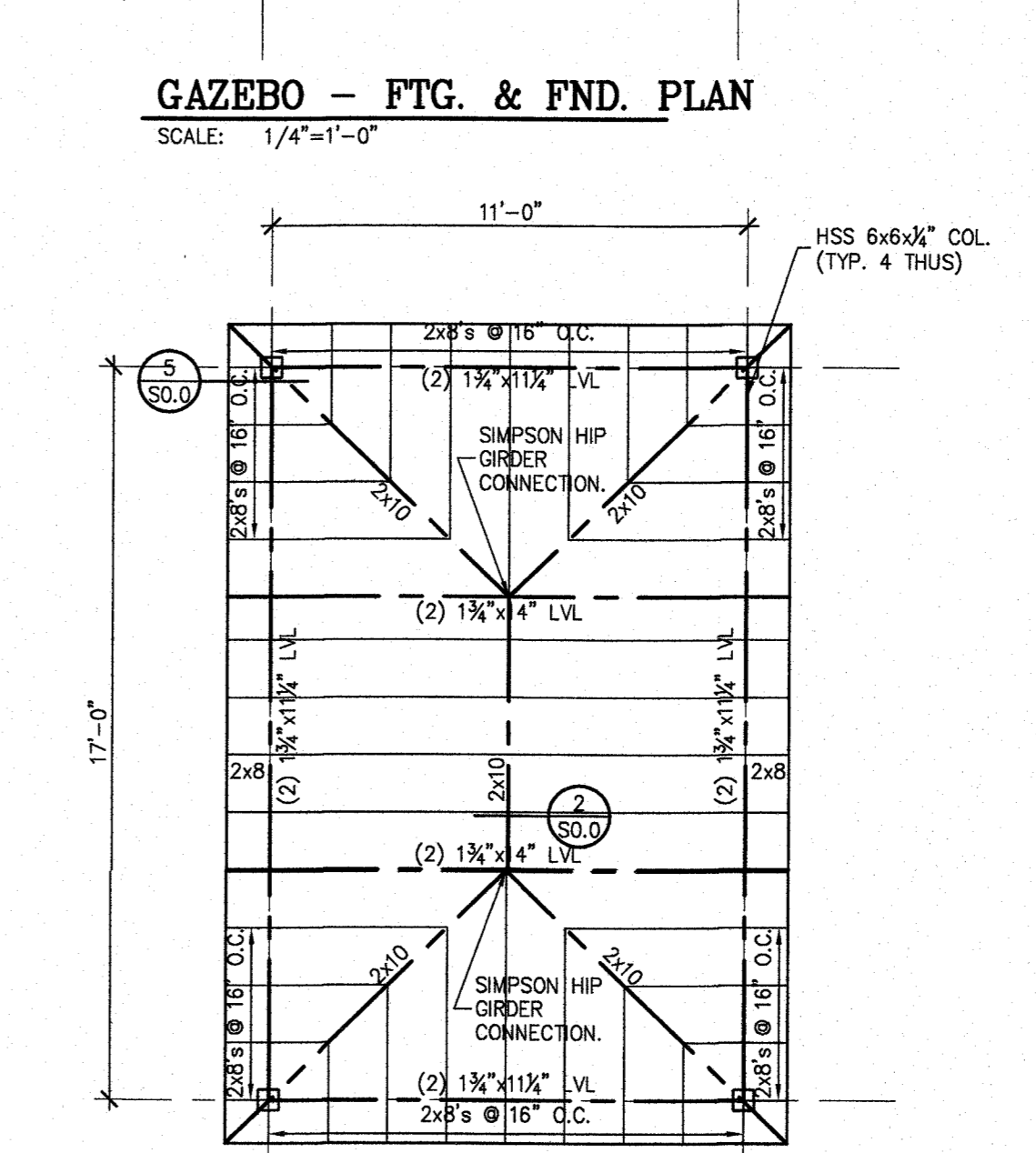
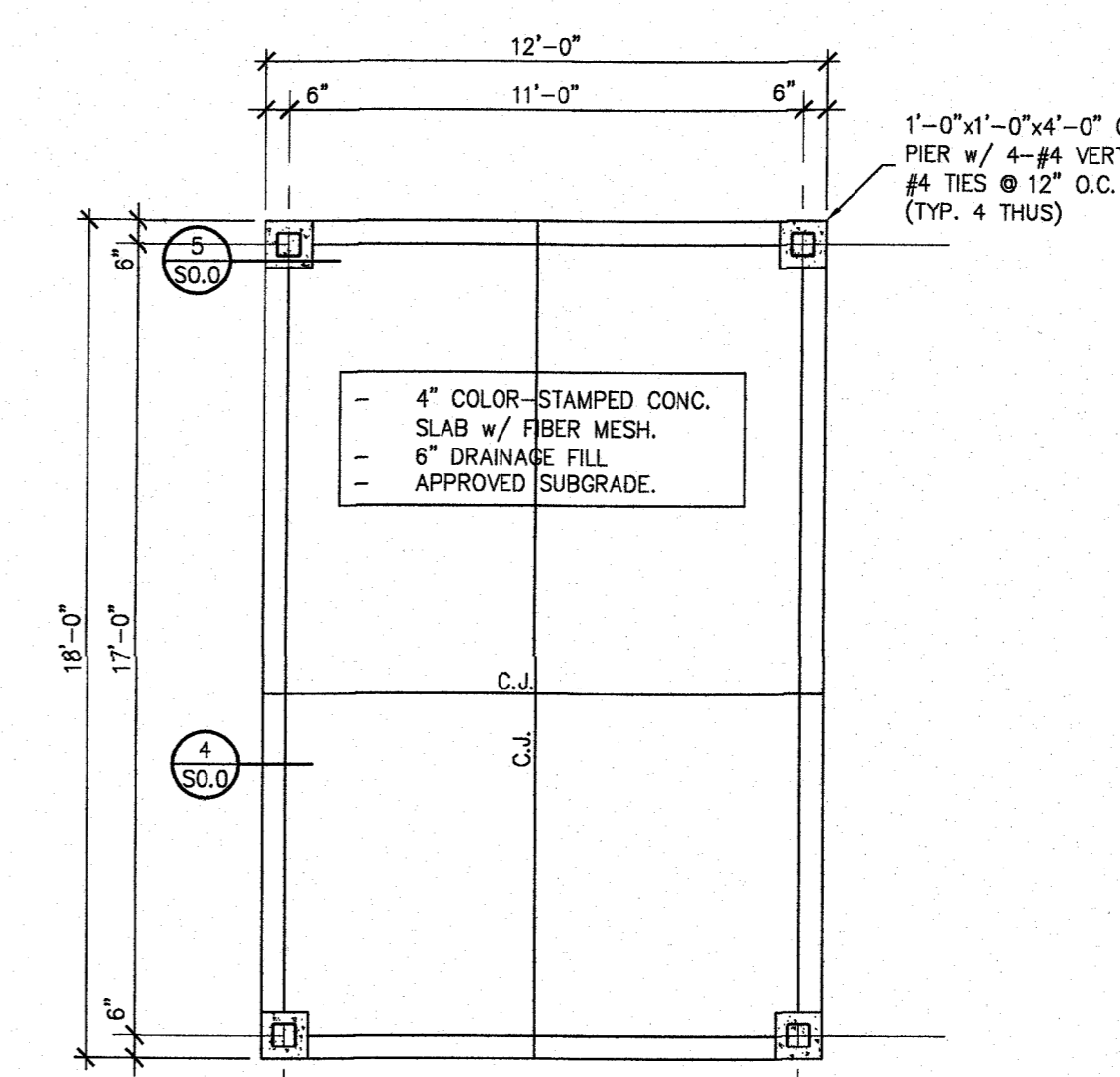


WOOD SHEARWALL SCHEDULE

MARK	PENTHOUSE SHEATHING	4TH FLOOR SHEATHING	3RD FLOOR SHEATHING	2ND FLOOR SHEATHING	1ST FLOOR SHEATHING	PENTHOUSE FLOOR STRAP	4TH FLOOR STRAP	3RD FLOOR STRAP	2ND FLOOR STRAP	1ST FLOOR HOLDOWN	# END WALL STUDS (1ST FLOOR / ALL OTHER FLOORS)
SW-A	NONE	7/16" APA RATED SHEATHING - FASTEN TO STUD FRAMING W/ 8d NAILS @ 6" O.C. PANEL EDGE SPACING	7/16" APA RATED SHEATHING - FASTEN TO STUD FRAMING W/ 8d NAILS @ 6" O.C. PANEL EDGE SPACING	7/16" APA RATED SHEATHING - FASTEN TO STUD FRAMING W/ 8d NAILS @ 6" O.C. PANEL EDGE SPACING	7/16" APA RATED SHEATHING - FASTEN TO STUD FRAMING W/ 8d NAILS @ 6" O.C. PANEL EDGE SPACING	NONE	NONE	SIMPSON CS14 STRAP - FASTEN TO STUD W/ 3/8-10d & 16" END LENGTH, OR W/ 3/8-8d & 19" END LENGTH	SIMPSON CM212 STRAP - FASTEN TO STUD W/ 9/16-10d & 30" END LENGTH, OR W/ 9/16-10d & 44" END LENGTH	(2) SIMPSON HBDQ11-SS52.5 TENSION TIE EA. SIDE W/ 1"x12" EMBED. ANCHOR BOLT - FASTEN TO STUD W/ 24-SS52x24" FASTENERS	4/2
SW-B	NONE	7/16" APA RATED SHEATHING - FASTEN TO STUD FRAMING W/ 8d NAILS @ 6" O.C. PANEL EDGE SPACING	7/16" APA RATED SHEATHING - FASTEN TO STUD FRAMING W/ 8d NAILS @ 6" O.C. PANEL EDGE SPACING	7/16" APA RATED SHEATHING - FASTEN TO STUD FRAMING W/ 8d NAILS @ 6" O.C. PANEL EDGE SPACING	7/16" APA RATED SHEATHING - FASTEN TO STUD FRAMING W/ 8d NAILS @ 3" O.C. PANEL EDGE SPACING	NONE	SIMPSON CS22 STRAP - FASTEN TO STUD W/ 1/2-10d & 7" END LENGTH, OR W/ 1/4-8d & 8" END LENGTH	SIMPSON CSM216 STRAP - FASTEN TO STUD W/ 5/8-16d SINKER & 25" END LENGTH	(2) SIMPSON CSM216 STRAPS - FASTEN TO STUD W/ 5/8-16d SINKER & 25" END LENGTH	(2) SIMPSON HBDQ11-SS52.5 TENSION TIE EA. SIDE W/ 1"x12" EMBED. ANCHOR BOLT - FASTEN TO STUD W/ 24-SS52x24" FASTENERS	4/2
SW-C	NONE	5/8" CYP. BD. SHEATHING - FASTEN TO STUD FRAMING W/ 8d COOLER NAILS @ 6" O.C. PANEL EDGE SPACING	8" CYP. BD. SHEATHING - FASTEN TO STUD FRAMING W/ 8d COOLER NAILS @ 4" O.C. PANEL EDGE SPACING	5/8" CYP. BD. SHEATHING - FASTEN TO STUD FRAMING W/ 8d COOLER NAILS @ 4" O.C. PANEL EDGE SPACING	5/8" CYP. BD. SHEATHING EA. SIDE - FASTEN TO STUD FRAMING W/ 6d COOLER NAILS @ 4" O.C. PANEL EDGE SPACING	NONE	NONE	NONE	NONE	SIMPSON HTTSTK TENSION TIE W/ 5/8"x7-1/2" EMBED ANCHOR BOLT - FASTEN TO STUD W/ 26-50#10x24" FASTENERS	2/2
SW-D	7/16" APA RATED SHEATHING - FASTEN TO STUD FRAMING W/ 8d NAILS @ 6" O.C. PANEL EDGE SPACING	NONE	NONE	NONE	NONE	SIMPSON CS16 STRAP - FASTEN TO STUD W/ 22-10d & 12" END LENGTH, OR W/ 26-8d & 14" END LENGTH	NONE	NONE	NONE	NONE	2/2

REMARKS:

- SOILD BLOCKING REQUIRED AT ALL PANEL EDGES.
- WHERE NAILS ARE SPACED @ 2" O.C. - STAGGERED NAILING AND DOUBLE STUD BLOCKING REQUIRED AT ALL PANEL EDGES.
- FOR SIMPSON FLOOR STRAPS, USE HALF OF THE REQUIRED NAILS ABOVE AND BELOW FLOOR TRUSS TO ACHIEVE NECESSARY CAPACITY. NAILS NOT REQUIRED IN FLOOR TRUSS.
- LOCATE FLOOR STRAPS AND HOLDOWNS AT SHEARWALL ENDS.
- FASTENING PATTERN CALLED OUT IN SCHEDULE IS FOR PANEL EDGES. PROVIDE SAME DIAMETER NAIL @ 12" O.C. REST OF FIELD, UNLESS NOTED OTHERWISE.
- SEE ARCH. FOR SHEATHING LOCATION WITHIN WALL.
- SEE 1/3x3 FOR SHEATHING HOLDOWN DETAIL.
- ALL SHEATHING FOR SHEAR WALLS IS FOR ONE SIDE ONLY, UNL.O.
- ALL HOLDOWN ANCHORS TO BE HELTI HIT-W/ 200 ADHESIVE ANCHOR SYSTEM



CANDLEWOOD SUITES
Pueblo, CO

PROJ. MGR.
PRO GROUP INC.
208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

RISE
STRUCTURAL ASSOCIATES INC.
107 Railroad Ave., P.O. Box 26, Hartington, SD 57033
605.336.8197

COUNCIL LICENSED
10/21/2016

GENERAL NOTES & SCHEDULES

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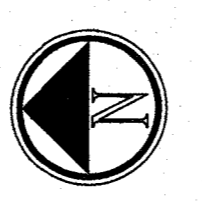
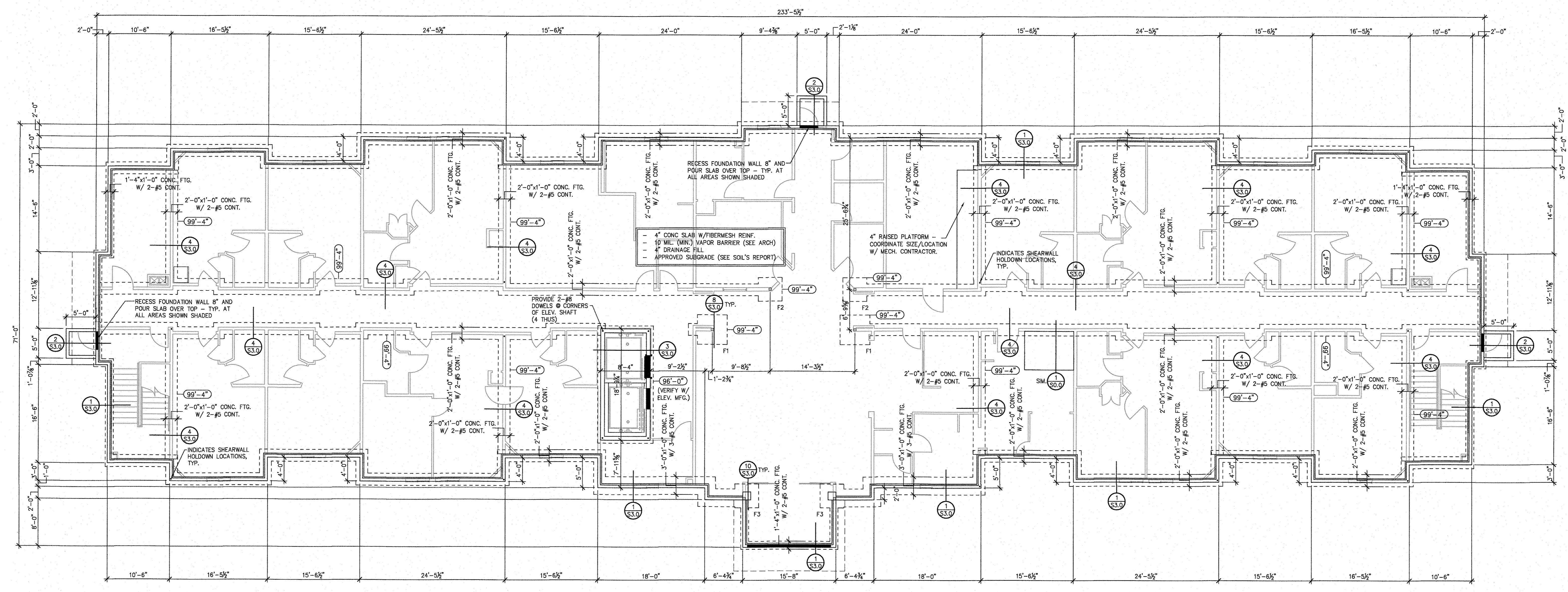
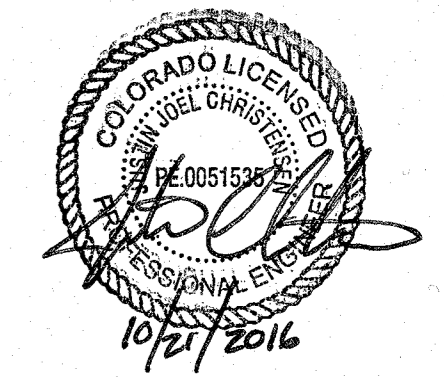
PROJECT NO. 16162

DRAWN BY: CJH

CHECKED BY: JJC

DATE: 10.21.2016

SHEET: S0.0



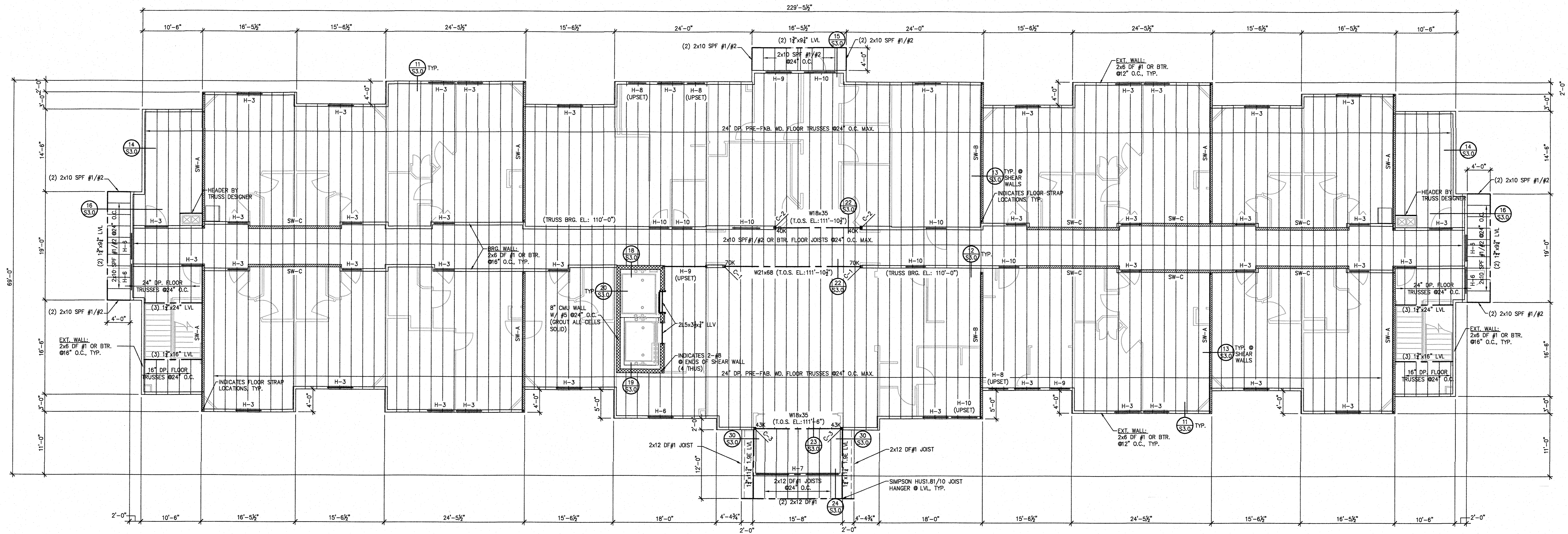
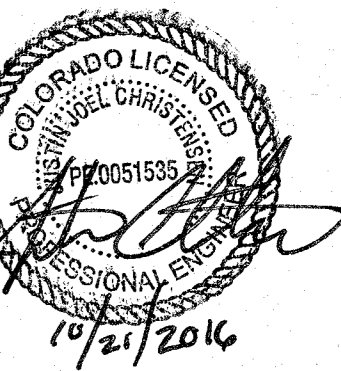
FOOTING & FOUNDATION PLAN
SCALE: 1/8" = 1'-0" FIN. FL. EL. = 100'-0"
1/FTG. EL. = 96'-0" U.N.O.

- NOTES:
- CONTRACTOR TO SUBMIT CONTROL JOINT LAYOUT FOR ARCH/ENGINEER APPROVAL. SEE STRUCTURAL NOTES FOR SIZE/SPACING LIMITATIONS. SEE 6/S3.0 AND 7/S3.0 FOR CONTROL JOINT DETAILS.
 - SEE 9/S3.0 FOR TYPICAL CORNER WALL REINFORCING DETAILS.
 - SEE GEOTECHNICAL ENGINEER'S SOILS REPORT FOR SUBGRADE PREPARATION AT AREAS BENEATH BUILDING FOOTPRINT.

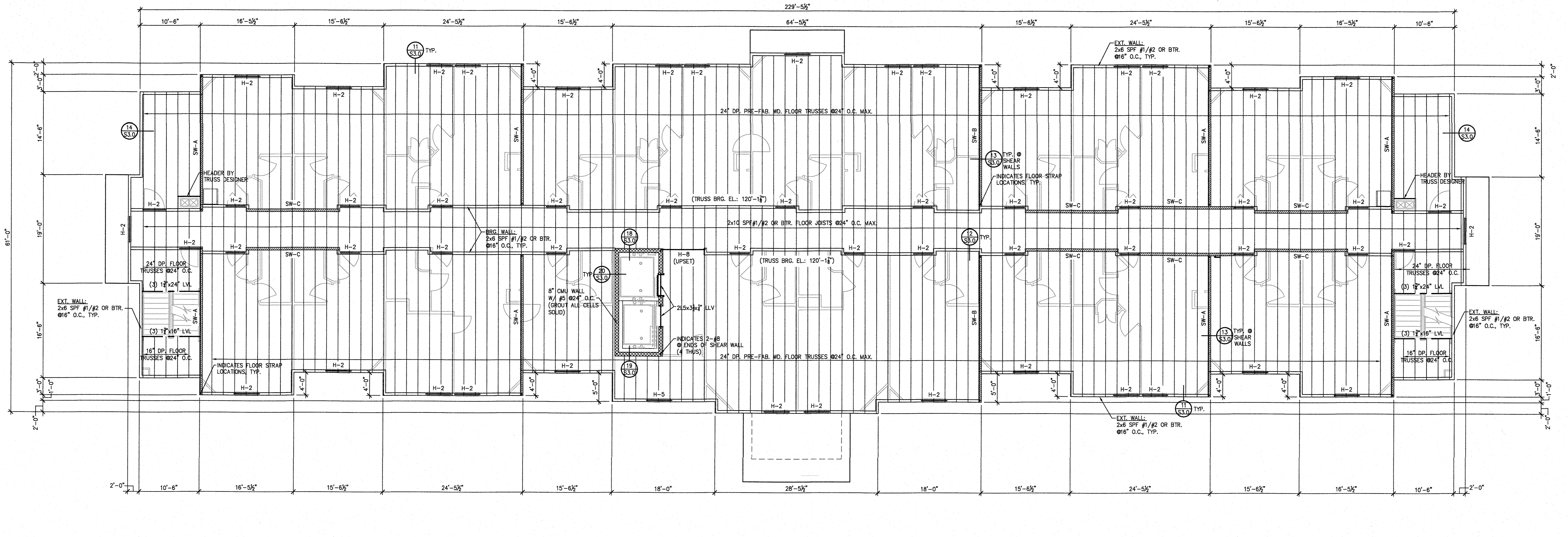
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PROJECT NO.	16162
DRAWN BY:	CJH
CHECKED BY:	JJC
DATE:	10.21.2016
SHEET:	S1.1

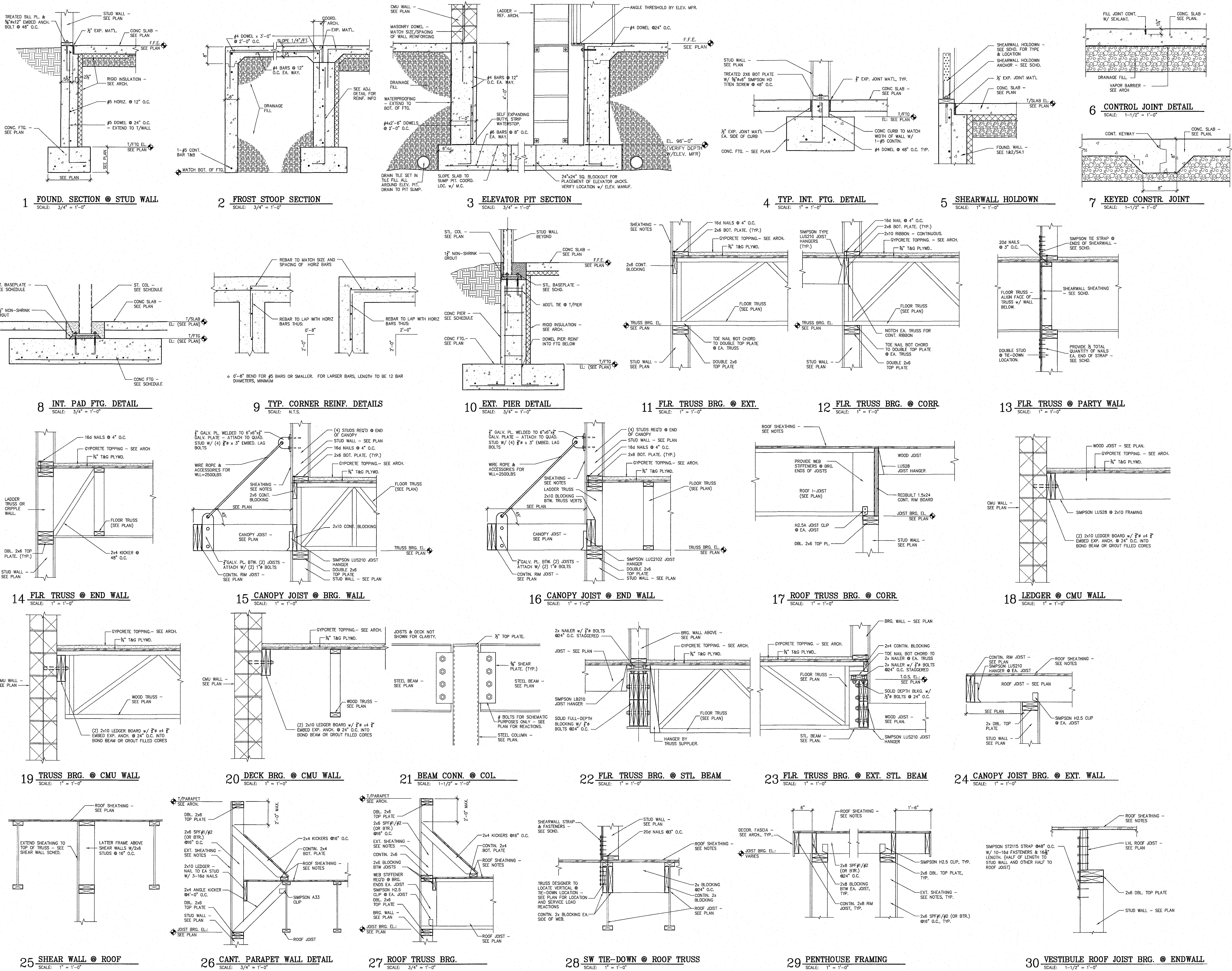
S1.1



SECOND FLOOR FRAMING PLAN
 SCALE: 1/8" = 1'-0"
 NOTES:
 - SEE 21/S3.0 FOR BEAM TO COL. CONNECTION



THIRD FLOOR FRAMING PLAN
 SCALE: 1/8" = 1'-0"



CANDLEWOOD SUITES
Pueblo, CO

PROJ. MGR.
PRO GROUP INC.

208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

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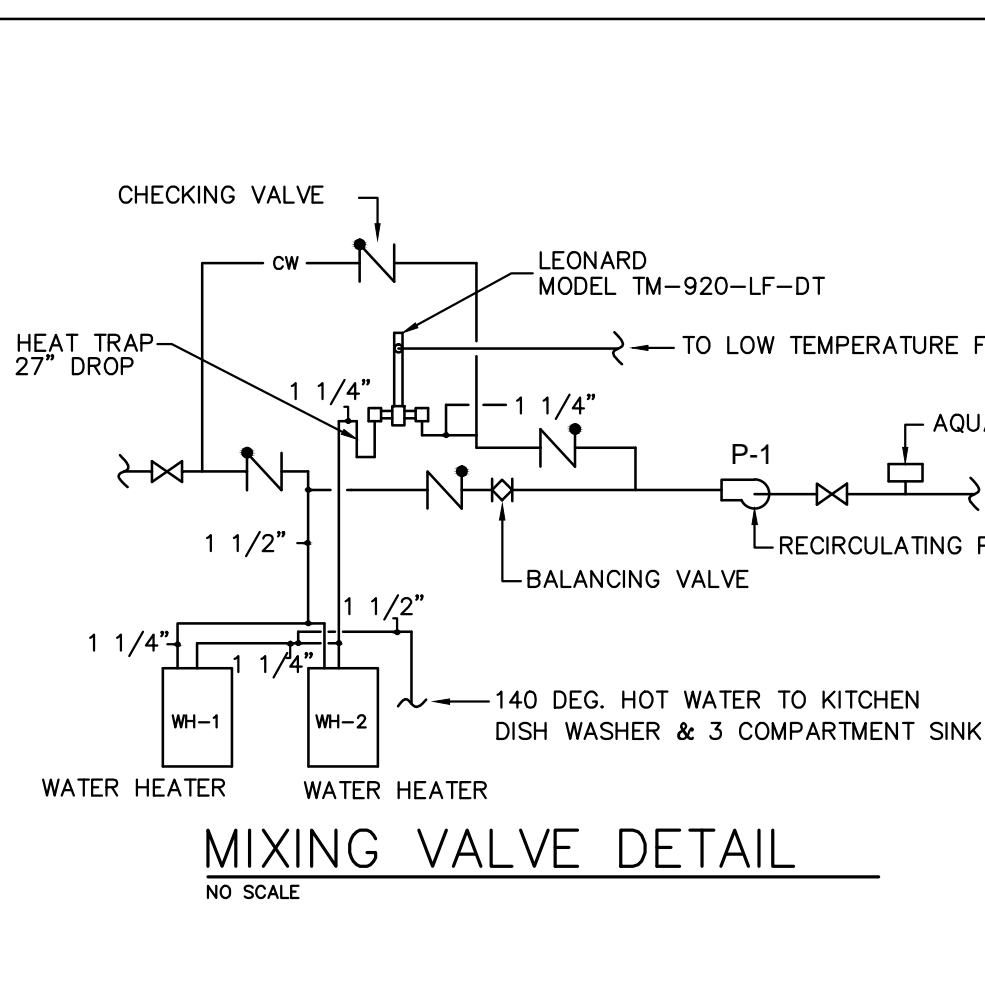
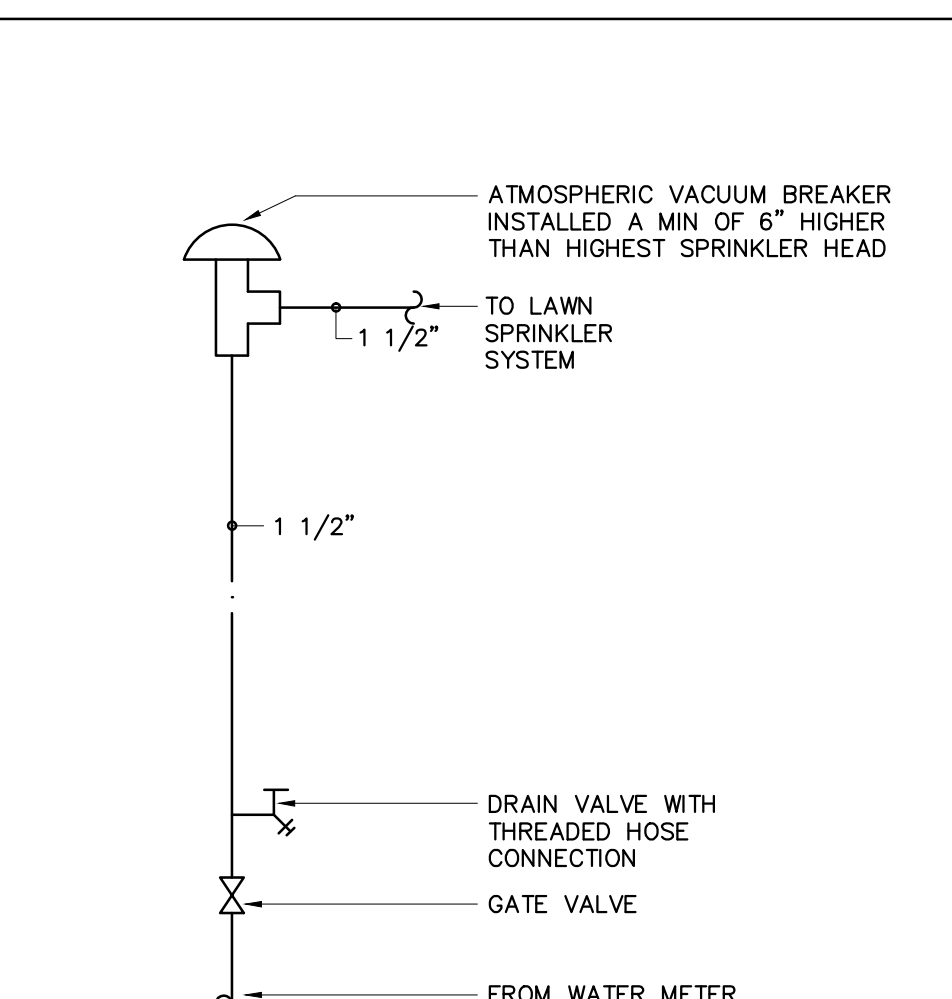
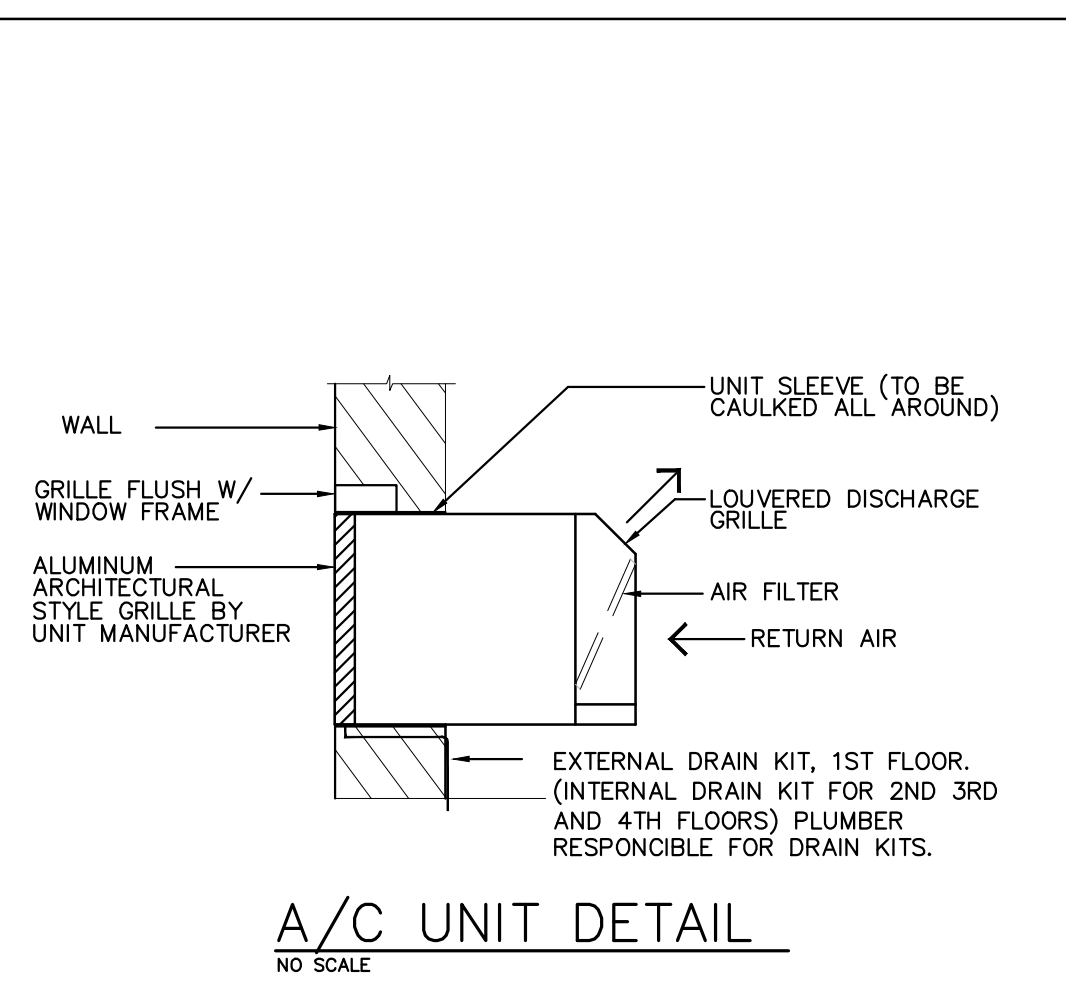
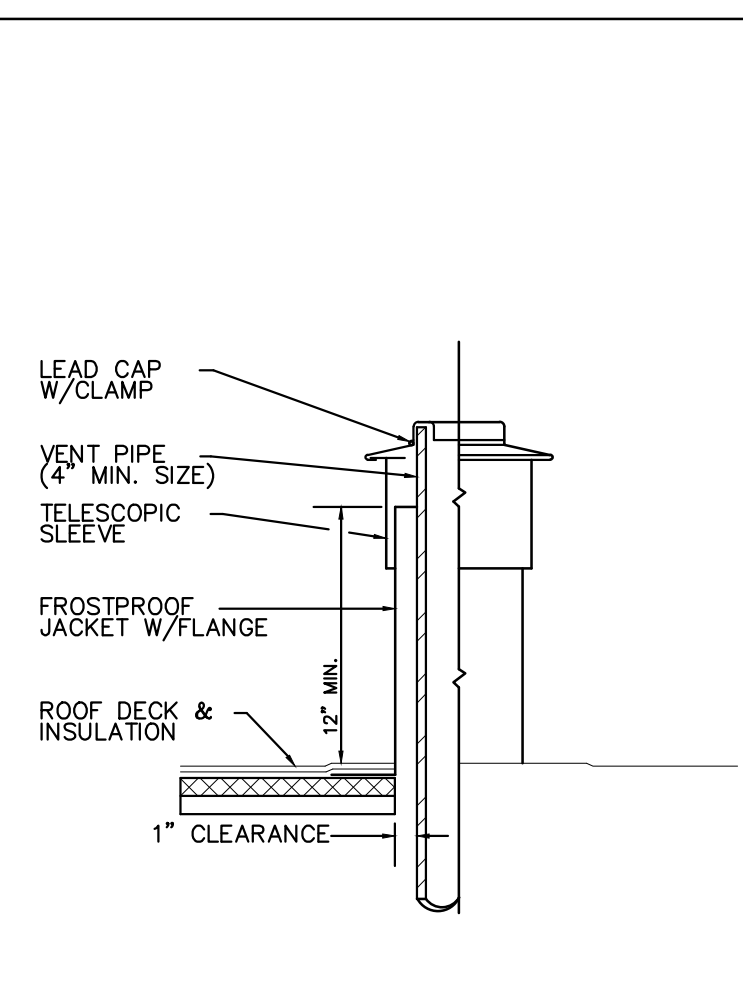
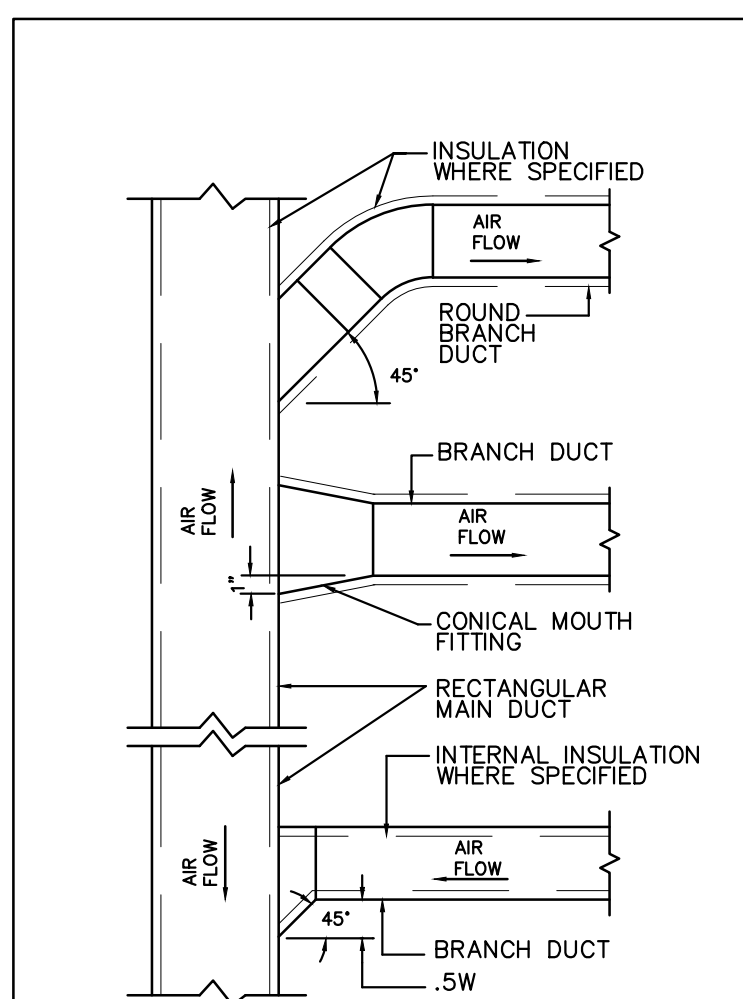
ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

RISE
STRUCTURAL ASSOCIATES INC.
101 Railroad Ave. - PO Box 39 - Hanksville, UT 84632
(801)242-2100 - fax:(801)242-2113

PROFESSIONAL ENGINEER
No. 15153
10/21/2016

STRUCTURAL DETAILS

PROJECT NO. 16162
DRAWN BY: CJH
CHECKED BY: JJC
DATE: 10.21.2016
SHEET: S3.0



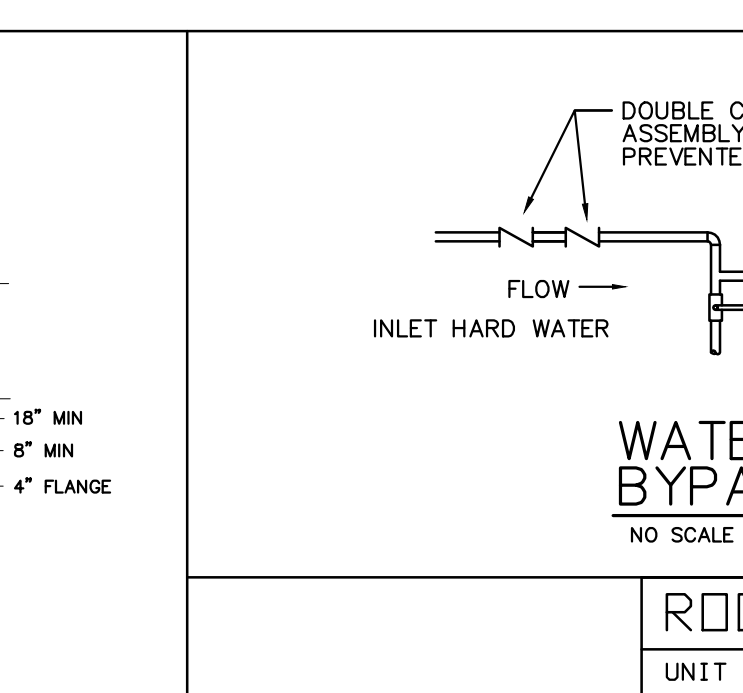
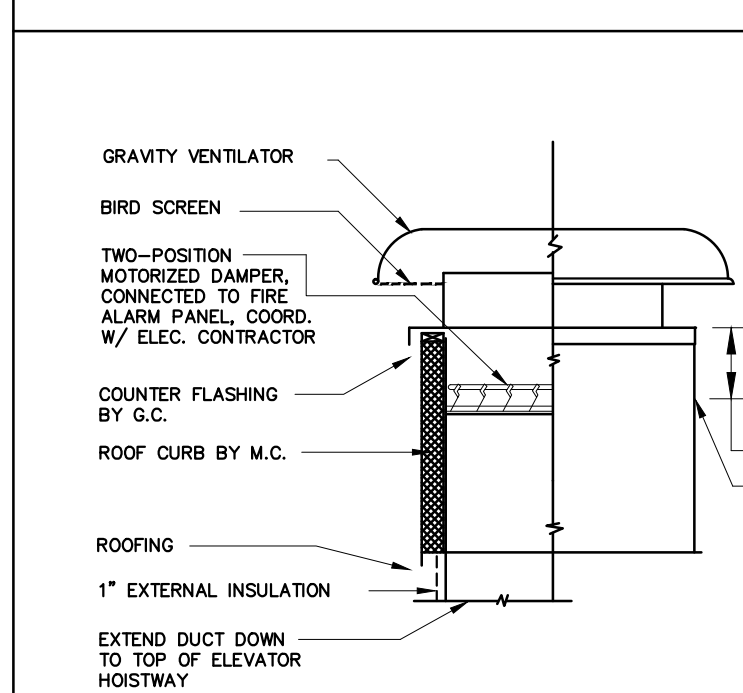
DUCT TAKE-OFF & CONNECTION
NO SCALE

PLUMBING VENT DETAIL
NO SCALE

A/C UNIT DETAIL
NO SCALE

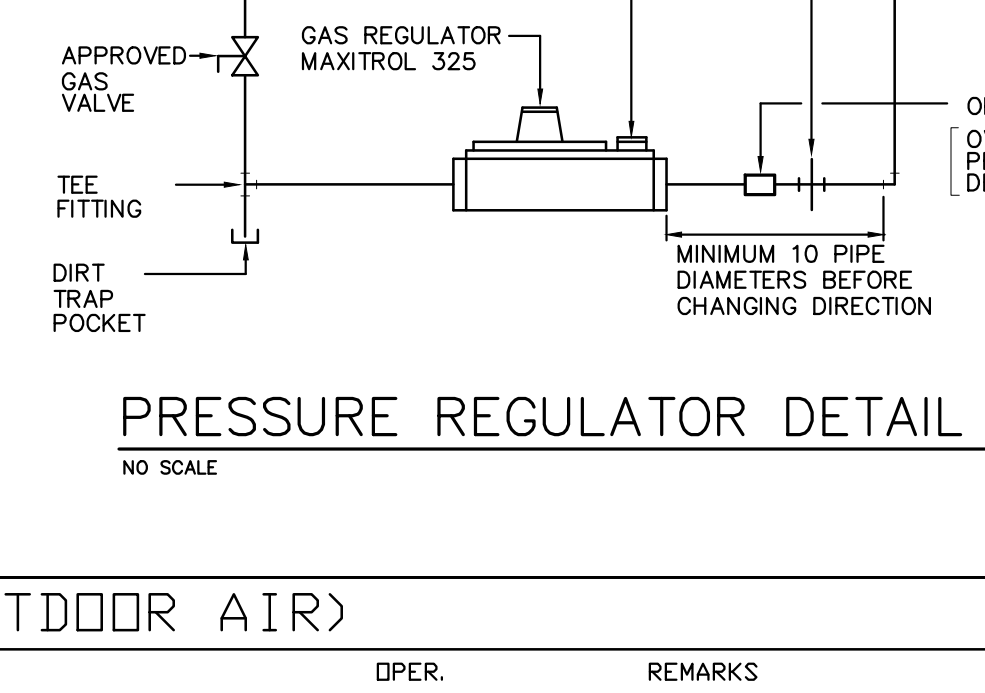
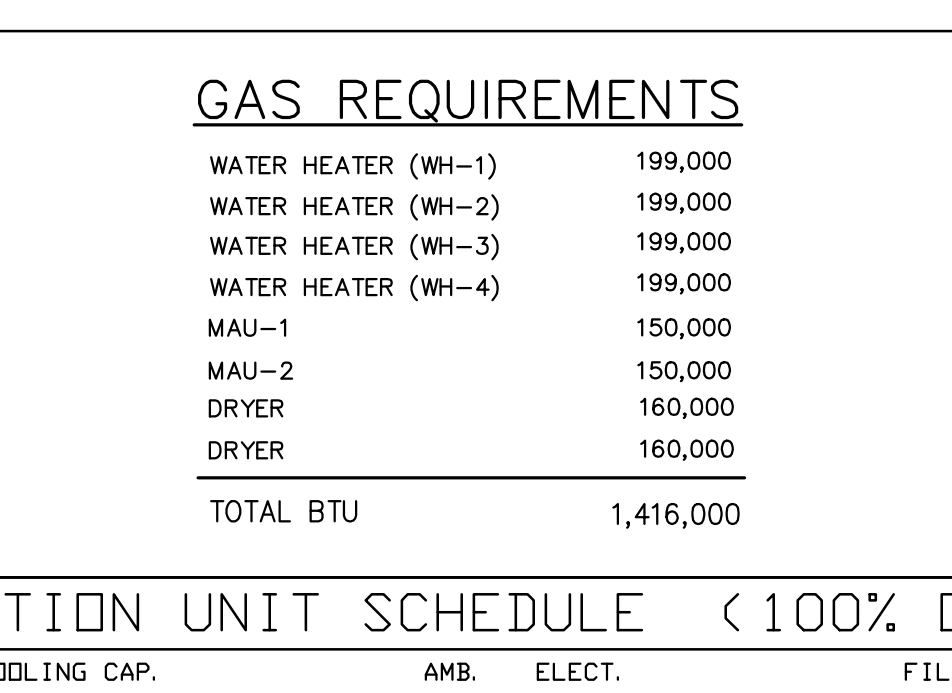
LAWN SPRINKLER PIPING DETAIL
NO SCALE

MIXING VALVE DETAIL
NO SCALE



GAS REQUIREMENTS

WATER HEATER (WH-1)	199,000
WATER HEATER (WH-2)	199,000
WATER HEATER (WH-3)	199,000
WATER HEATER (WH-4)	199,000
MAU-1	150,000
MAU-2	150,000
DRYER	160,000
DRYER	160,000
TOTAL BTU	1,416,000

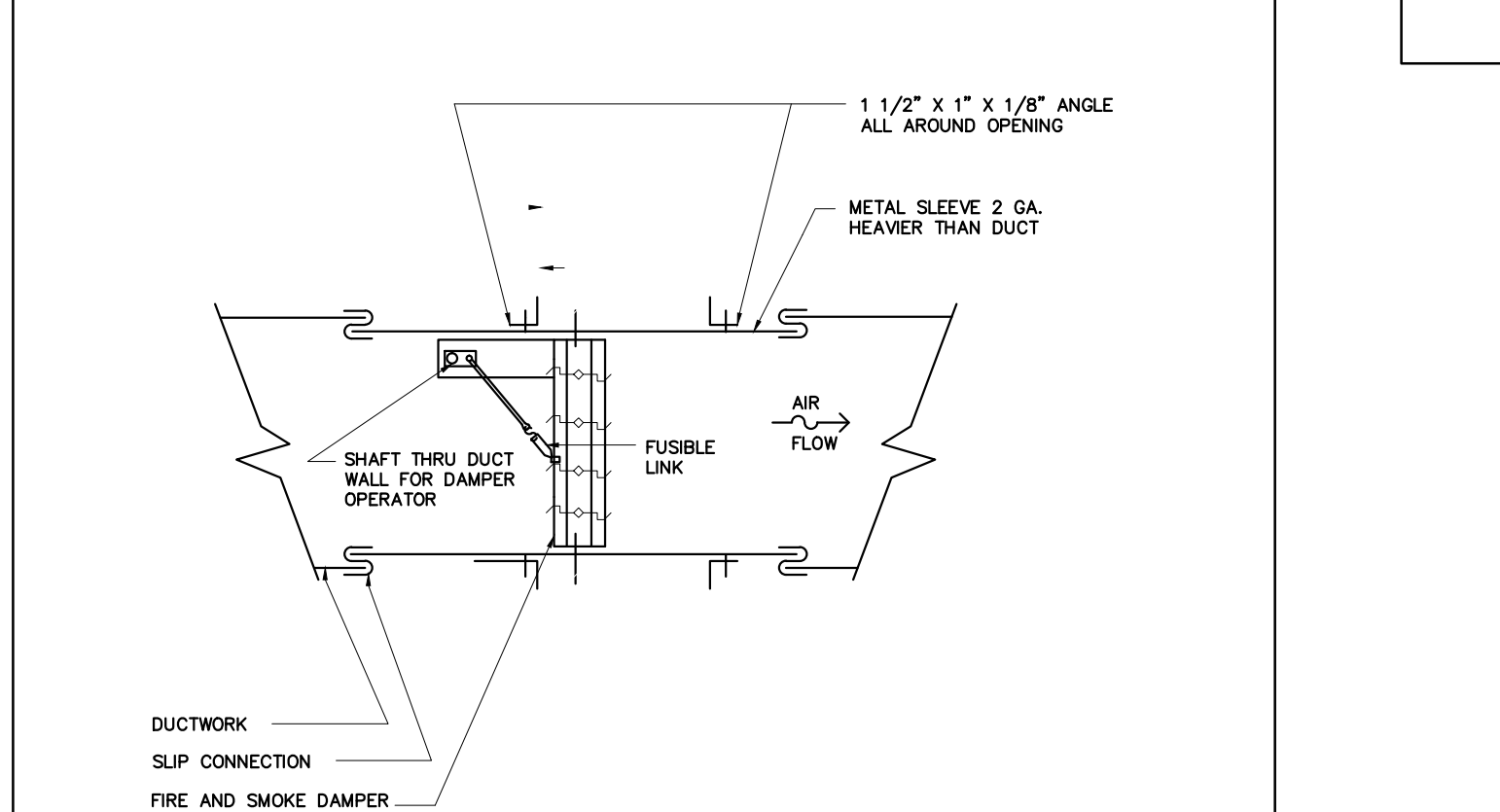


ELEVATOR HOISTWAY VENTILATOR DETAIL
NO SCALE

WATER SOFTENER BYPASS VALVE
NO SCALE

ROOFTOP HEATING & COOLING & VENTILATION UNIT SCHEDULE (100% OUTDOOR AIR)

PRESSURE REGULATOR DETAIL
NO SCALE



WATER HEATER SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	STORAGE CAPACITY	RECOVERY CAPACITY	ELECTRICAL KW	PHASE	ELEMENTS	INPUT MBH	REMARKS
WH-1	HTP - PHOENIX	PH199-119	119	216	115	1	---	199 5 AMP, 120 VOLT, CONCENTRIC VENT	
WH-2	HTP - PHOENIX	PH199-119	119	216	115	1	---	199 5 AMP, 120 VOLT, CONCENTRIC VENT	
WH-3	HTP - PHOENIX	PH199-119	119	216	115	1	---	199 5 AMP, 120 VOLT, CONCENTRIC VENT	
WH-4	HTP - PHOENIX	PH199-119	119	216	115	1	---	199 5 AMP, 120 VOLT, CONCENTRIC VENT	

PUMP SCHEDULE

PUMP DESCRIPTION	MANUF.	MODEL NO.	GPM	HEAD	ELECTRICAL MHP	BHP	VOLTS	PH	RPM	REMARKS
P-1 DWH-CIRC	GRUNDFOS	UP26-998F	10	26	1/6	---	120	1	---	2.15 AMP, BRONZE BODY
P-2 SUMP PUMP	STANCOR	SF-12	60	25	2.1A	---	120	1	---	FLOAT SWITCH

PACKAGED TERMINAL AIR CONDITIONER

UNIT NO.	MANU.	MODEL	ELECTRIC CAPACITY	AMB. AIR SUCT. TEMP.	ELECTRICAL KW	PH	MCA	HACR	MIN. WTR. WT. (LBS.)	OPER. WT. (LBS.)	REMARKS		
AC-1	FRIEDRICK	PDH07K	2.8	9.0	95	208	1	16.5	19.0	20	13.0	11.3	1.2, 3, 4, 5
AC-2	FRIEDRICK	PDH07K	4.1	11.7	95	208	1	23.6	28.0	30	12.1	11.9	1.2, 3, 4, 5
AC-3	FRIEDRICK	PDH07K	---	14.2	95	208	1	6.7	8.5	10	10.4	121	PBK, 1, 2, 3, 4, 5

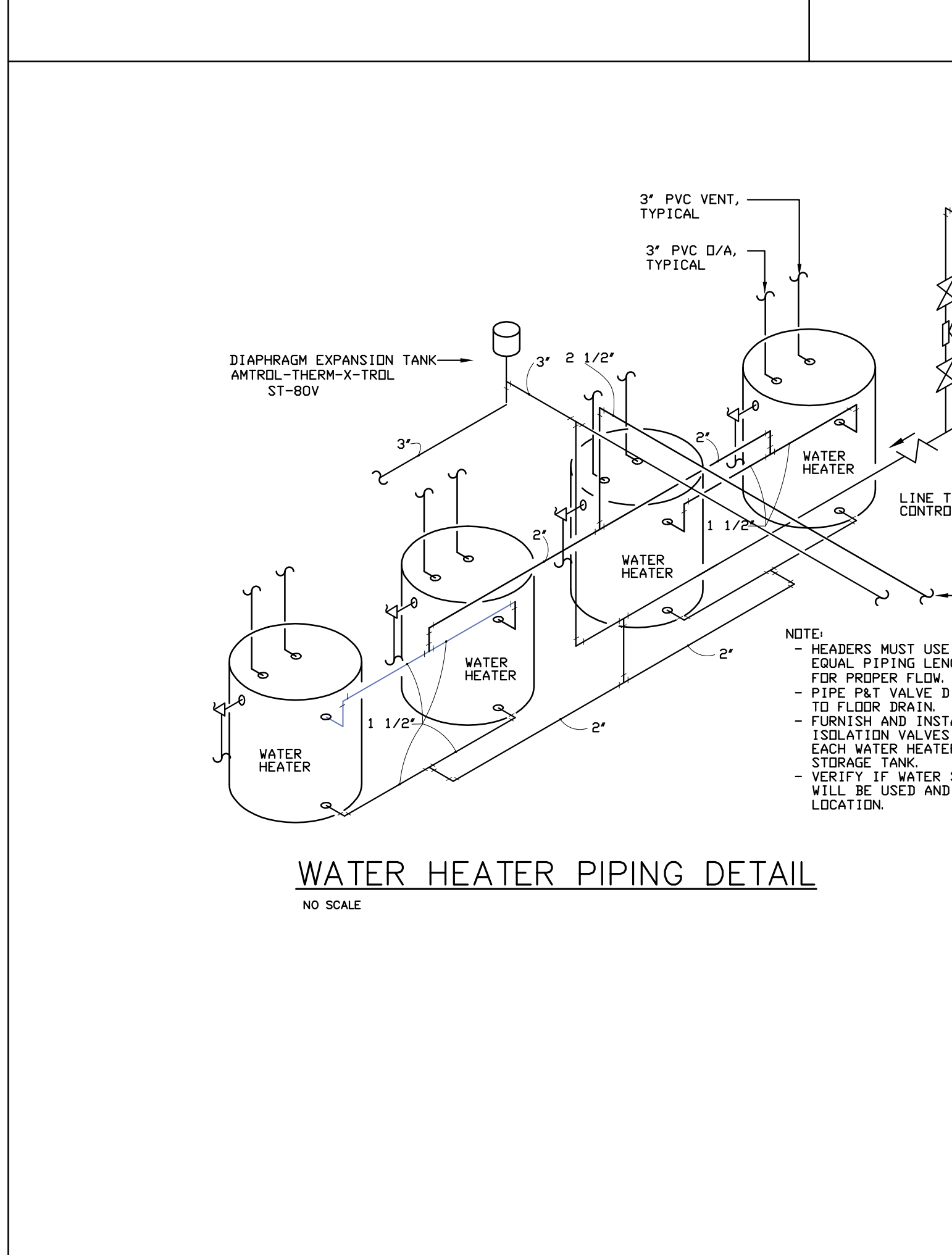
PLUMBING FIXTURE SCHEDULE

FIXTURE	TYPE	MANUF.	MODEL	TRIM	SUPPLIES	WASTE	REMARKS
WC-1	WATER CLOSET FLUSH TANK	AM. STD.	215CA 004	SC134	BRASS CRAFT	GCRC19C	OPEN FRONT SEAT, WITH CDVER, WITH CHECK HINGE, VERIFY RIGHT HAND FLUSH
WC-2	WATER CLOSET FLUSH TANK	AM. STD.	2403.012 or .800	SC134	BRASS CRAFT	GCRC19C	OPEN FRONT SEAT, WITH CDVER, WITH CHECK HINGE, VERIFY RIGHT HAND FLUSH
WC-3	WATER CLOSET FLUSH TANK	TOTO	CT705ELNG	SEAT SC534	SLDAN 8111-1, 6	BATTERY POWERED	OPEN FRONT SEAT, LESS COVER, WITH CHECK HINGE, PUBLIC TOILET ROOMS
BT-1	BATHTUB/SHOWER	KOHLER	61041120	MEN 62970	---	---	KOHLER 1.75 GPM SHOWER HEAD VERIFY RH, LH INSTALL. ADJ. TEMP. LIMIT STOPS 120°F
BT-2	BATHTUB/SHOWER	KOHLER	61041120	MEN 62970	AM HOTEL REGISTER	P308346	KOHLER 2.5 GPM HEAD, VESA TUB SEAT SLIDE BAR, HAND HELD SHOWER ADJ. TEMP. LIMIT STOP VAC. BRKR. BARRIER FREE, FURNISHED WITH ADA SHOWER SEAT
SH-1	CUSTOM ROLL-IN SHOWER BASE	MINCEY MARBLE	60"x36"	MEN 62970	HAND HELD	DN BACK WALL	KOHLER K-913E-CP 2.5 GPM SHOWER, GRAB BARS, 64700 STRAINER
L-1	LAVATORY	AMERICAN STANDARD	0610	MEN 6400	BRASS CRAFT	POP-UP DRAIN	P-TRAP, 1.5 GPM
L-2	LAVATORY	TOTO	LT191(G)	0	6400	FAUCET	POP-UP DRAIN P-TRAP, OFFSET WASTE, INSULATE WASTE & SUPPLIES.
L-3	LAVATORY	AMERICAN STANDARD	0395.012	MEN 6400	BRASS CRAFT	POP-UP DRAIN	P-TRAP, OFFSET WASTE, INSULATE WASTE & SUPPLIES.
SK-1	ONE COMPARTMENT STAINLESS STEEL GUEST RM. SINK	ELKAY	D11719	AM. STD. 4332.400	BRASSCRAFT	GCRC19C	BADGER 5\"/>

FIRE AND SMOKE DAMPER DETAIL
NO SCALE

PLUMBING FIXTURE SCHEDULE

WATER HEATER SCHEDULE

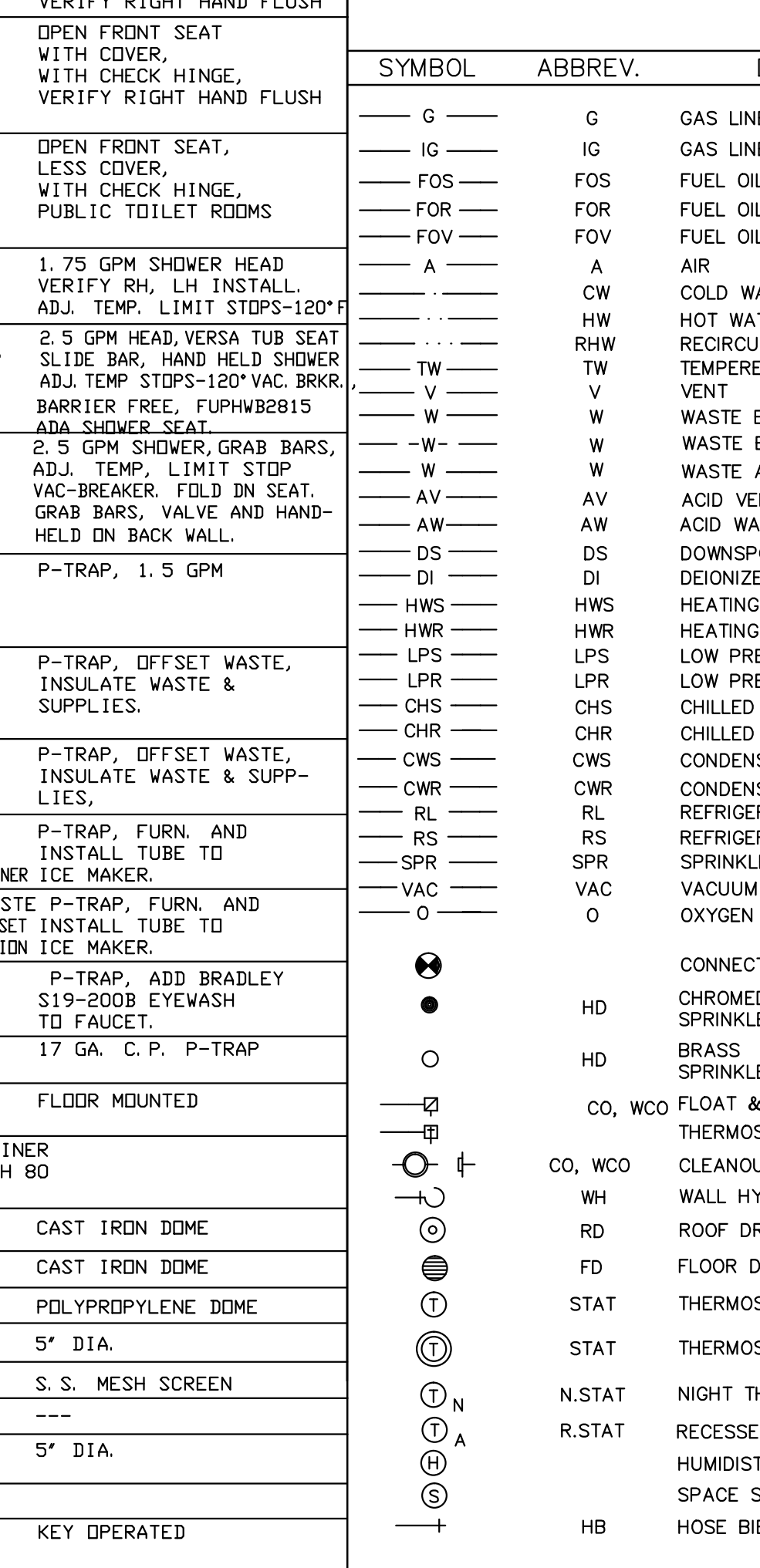


WATER HEATER PIPING DETAIL

UNIT NO.	MANUFACTURER	MODEL	TRIM	SUPPLIES	WASTE	REMARKS			
WH-1	HTP - PHOENIX	PH199-119	119	216	115	1	---	199 5 AMP, 120 VOLT, CONCENTRIC VENT	
WH-2	HTP - PHOENIX	PH199-119	119	216	115	1	---	199 5 AMP, 120 VOLT, CONCENTRIC VENT	
WH-3	HTP - PHOENIX	PH199-119	119	216	115	1	---	199 5 AMP, 120 VOLT, CONCENTRIC VENT	
WH-4	HTP - PHOENIX	PH199-119	119	216	115	1	---	199 5 AMP, 120 VOLT, CONCENTRIC VENT	

REGISTER GRILLE & DIFFUSER SCHEDULE

SYMBOL	MANUF.	MODEL	MAX. CFM	OVERALL SIZE	THRUDAT SIZE	NC	THROW	STATIC PD (IN. W.G.)	FRAME	PATTERN	REMARKS
D1	T&B	1300	210	24X24	8"	15	10'	.05	LAY-IN	4-WAY	RBD
D2	T&B	1300	210	24X24	8"	15	10'	.05	SURFACE	4-WAY	RBD
D3	T&B	1300	100	12X12	6"	15	4'	.02	SURFACE	4-WAY	---
D4	T&B	SVP5	165	24X6	8"	25	24'	.06	SURFACE	3-1/2" SLOTS	---
D5	H&C	210	170	16X6	14x4	19	24'	.02	FLOOR	---	---
D6	T&B	T54	300	9X23	7X21	---	15'	.03	SURFACE	D. DEFL.	---
D7	ALDES	CSRB-WS11	35	6X6	4"	---	---	---	WALL	---	STAIRWAYS, D/A, #1.
G1	T&B	CRE500	220	12X12	10X10	---	---	---	LAY-IN	---	---
G2	T&B	CRE500	2000	24X24	28X28	24	---	---	SURFACE	---	---
G3	T&B	CRE500	2000	24X24	28X28	24	---	---	LAY-IN	---	---
G4	T&B	CRE500	220	12X12	10X10	---	---	---	SURFACE	---	---
G5	ALDES	CSRB-DFS11	35	6X6	4"	---	---	---	CEILING	---	RAD. DAMP., #1
G6	T&B	CRE500	1170	38X12	4"	---	---	---	CEILING	---	---



WATER HEATER PIPING DETAIL
NO SCALE

PLUMBING FIXTURE SCHEDULE

WATER HEATER SCHEDULE

FIRE AND SMOKE DAMPER DETAIL
NO SCALE

PLUMBING VENT DETAIL
NO SCALE

LAWN SPRINKLER PIPING DETAIL
NO SCALE

MIXING VALVE DETAIL
NO SCALE

ELEVATOR HOISTWAY VENTILATOR DETAIL
NO SCALE

WATER SOFTENER BYPASS VALVE
NO SCALE

ROOFTOP HEATING & COOLING & VENTILATION UNIT SCHEDULE (100% OUTDOOR AIR)

PRESSURE REGULATOR DETAIL
NO SCALE

FIRE AND SMOKE DAMPER DETAIL
NO SCALE

PLUMBING VENT DETAIL
NO SCALE

LAWN SPRINKLER PIPING DETAIL
NO SCALE

MIXING VALVE DETAIL
NO SCALE

ELEVATOR HOISTWAY VENTILATOR DETAIL
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WATER SOFTENER BYPASS VALVE
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PLUMBING VENT DETAIL
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LAWN SPRINKLER PIPING DETAIL
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MIXING VALVE DETAIL
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ELEVATOR HOISTWAY VENTILATOR DETAIL
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WATER SOFTENER BYPASS VALVE
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ROOFTOP HEATING & COOLING & VENTILATION UNIT SCHEDULE (100% OUTDOOR AIR)

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FIRE AND SMOKE DAMPER DETAIL
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PLUMBING VENT DETAIL
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WATER SOFTENER BYPASS VALVE
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FIRE AND SMOKE DAMPER DETAIL
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WATER SOFTENER BYPASS VALVE
NO SCALE

ROOFTOP HEATING & COOLING & VENTILATION UNIT SCHEDULE (100% OUTDOOR AIR)

PRESSURE REGULATOR DETAIL
NO SCALE

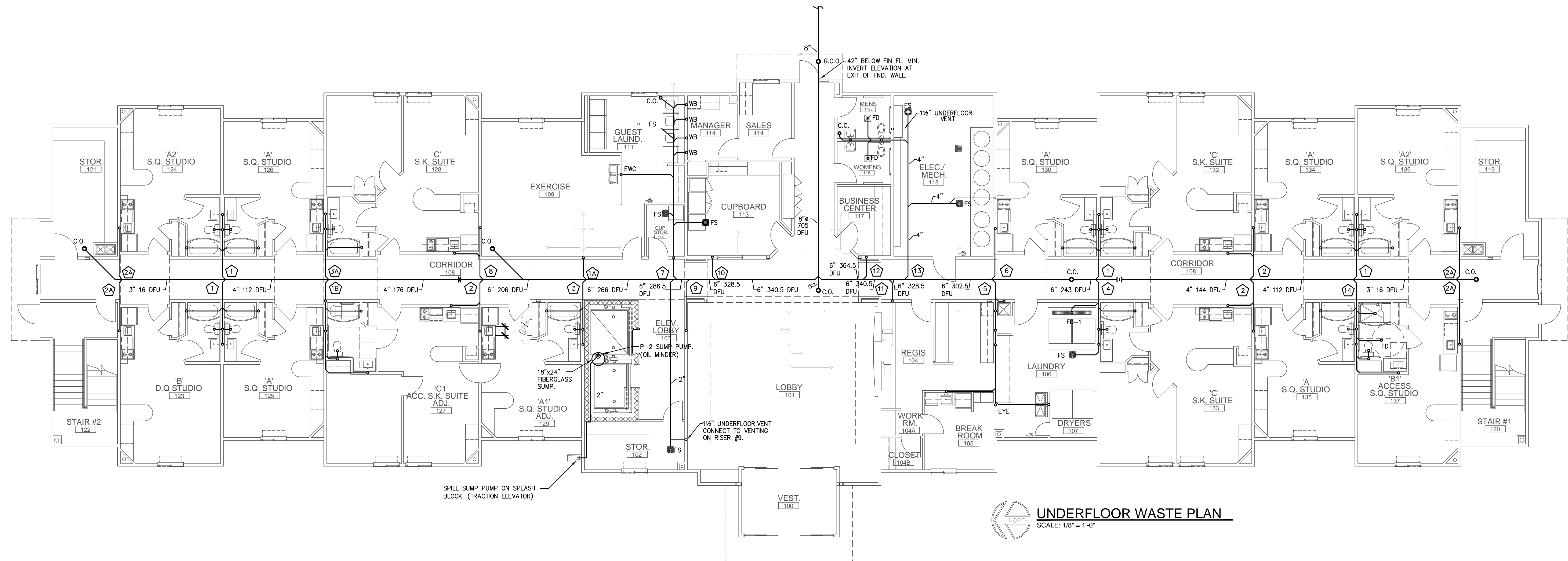
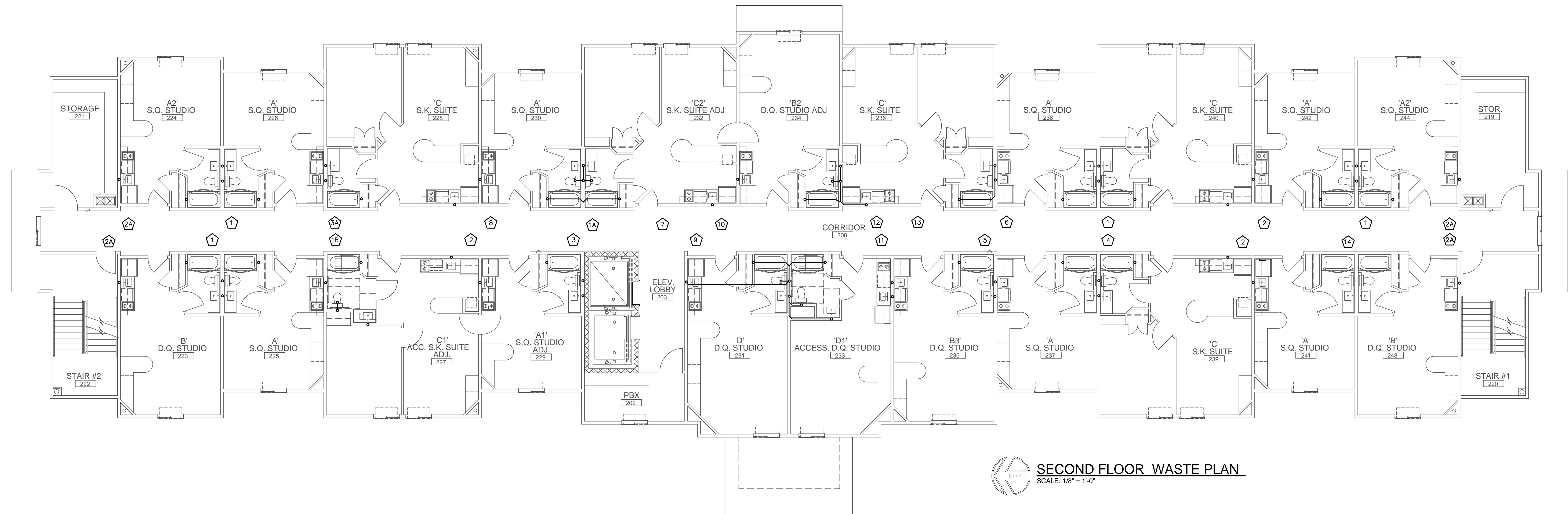
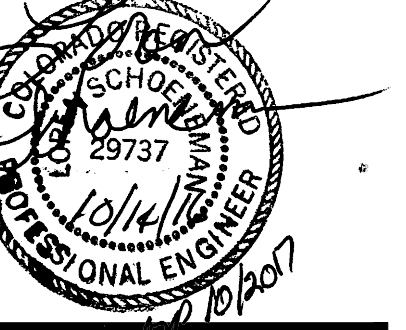
FIRE AND SMOKE DAMPER DETAIL
NO SCALE

PLUMBING VENT DETAIL
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LAWN SPRINKLER PIPING DETAIL
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MIXING VALVE DETAIL
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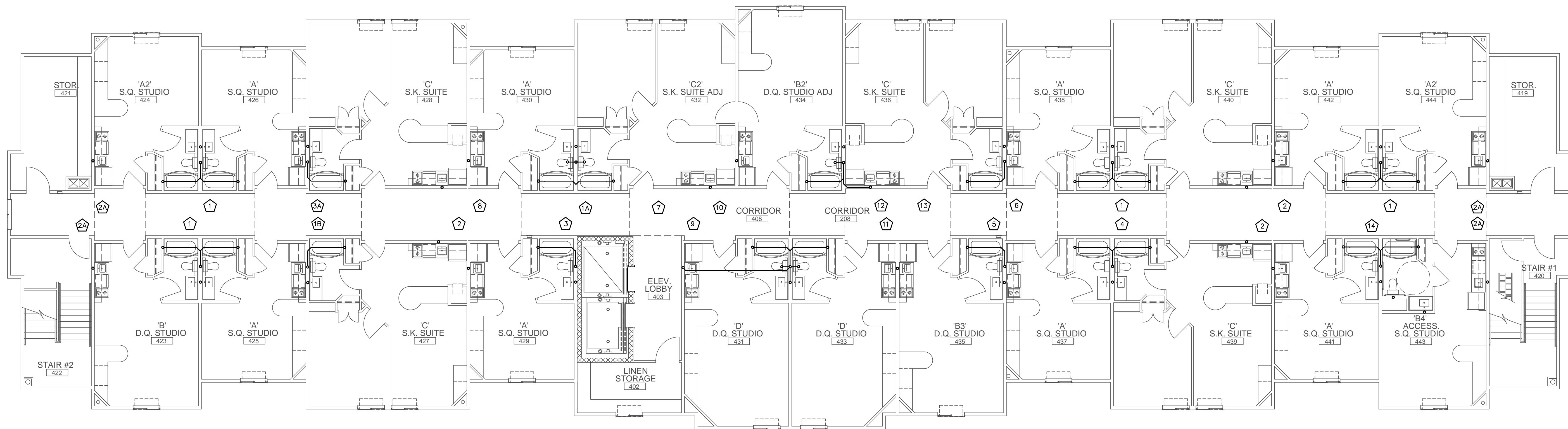
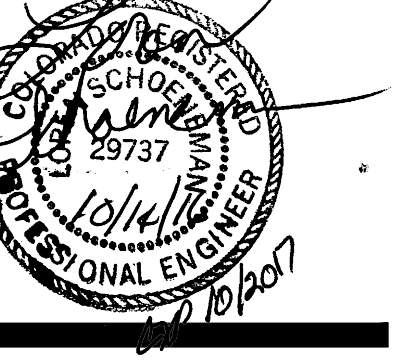
ELEVATOR HOISTWAY VENTILATOR DETAIL
NO SCALE



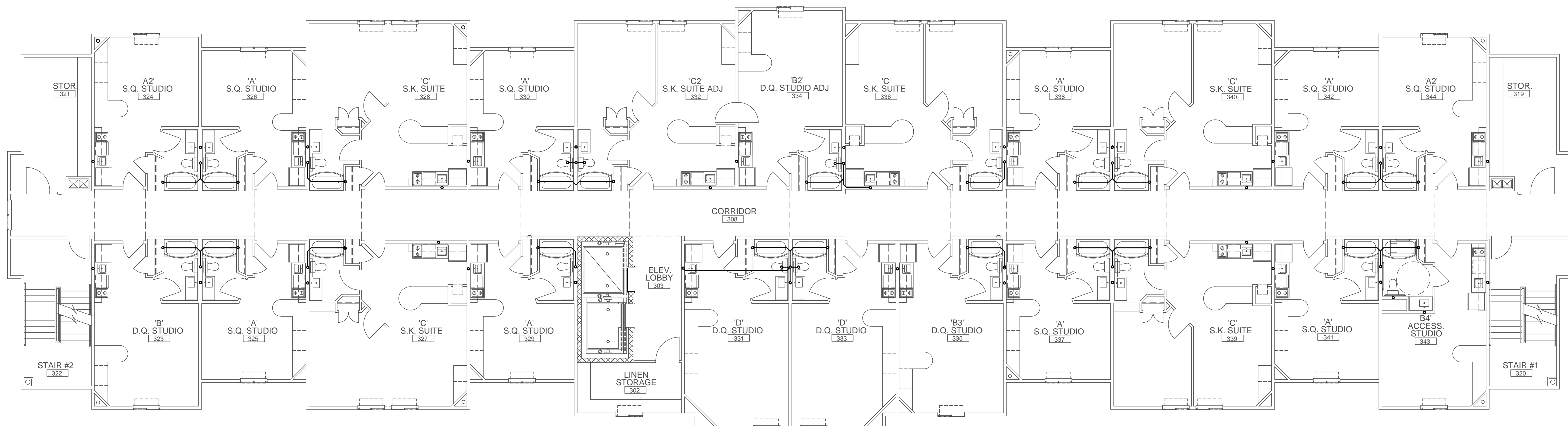
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UNDERFLOOR & SECOND FL. WASTE PLAN
PUEBLO, CO.

PROJECT NO.
PE1621
DRAWN BY:
CH/SG/DD
CHECKED BY:
DATE:
10.27.2016
SHEET:

M2.0



FOURTH FLOOR WASTE PLAN
SCALE: 1/8" = 1'-0"



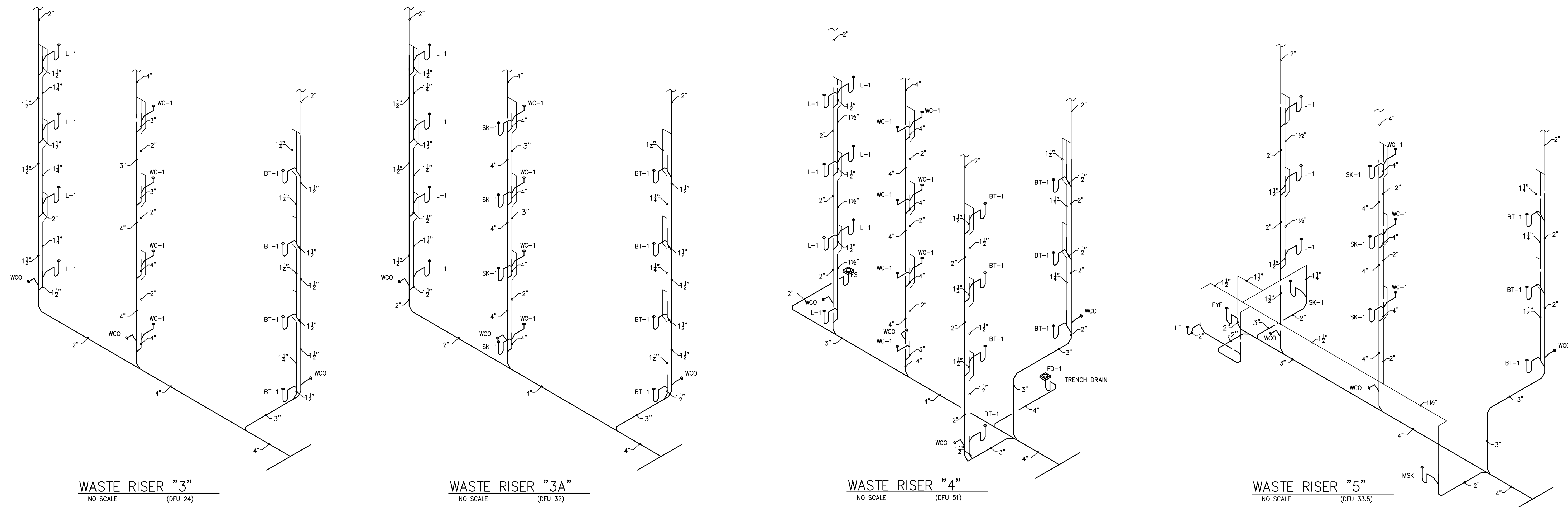
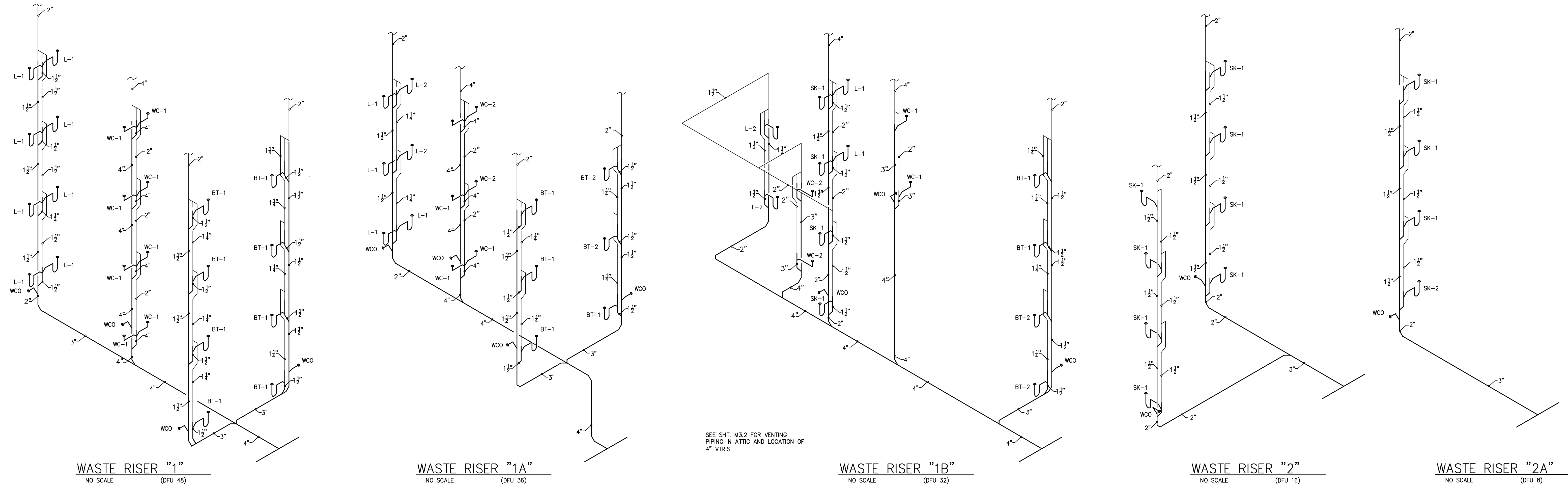
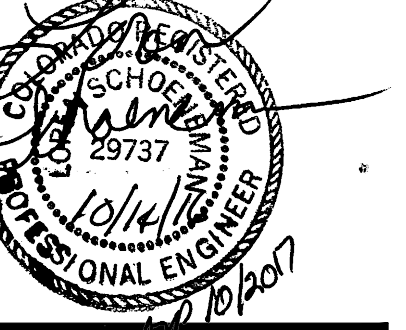
THIRD FLOOR WASTE PLAN
SCALE: 1/8" = 1'-0"

THIRD & FOURTH FLOOR WASTE PLAN
PUEBLO, CO.

SHEET NAME:
PROJECT NO. PE1621
DRAWN BY: CH/SG/DD
CHECKED BY:

DATE: 10.27.2016
SHEET:

M2.1



SHEET NAME:

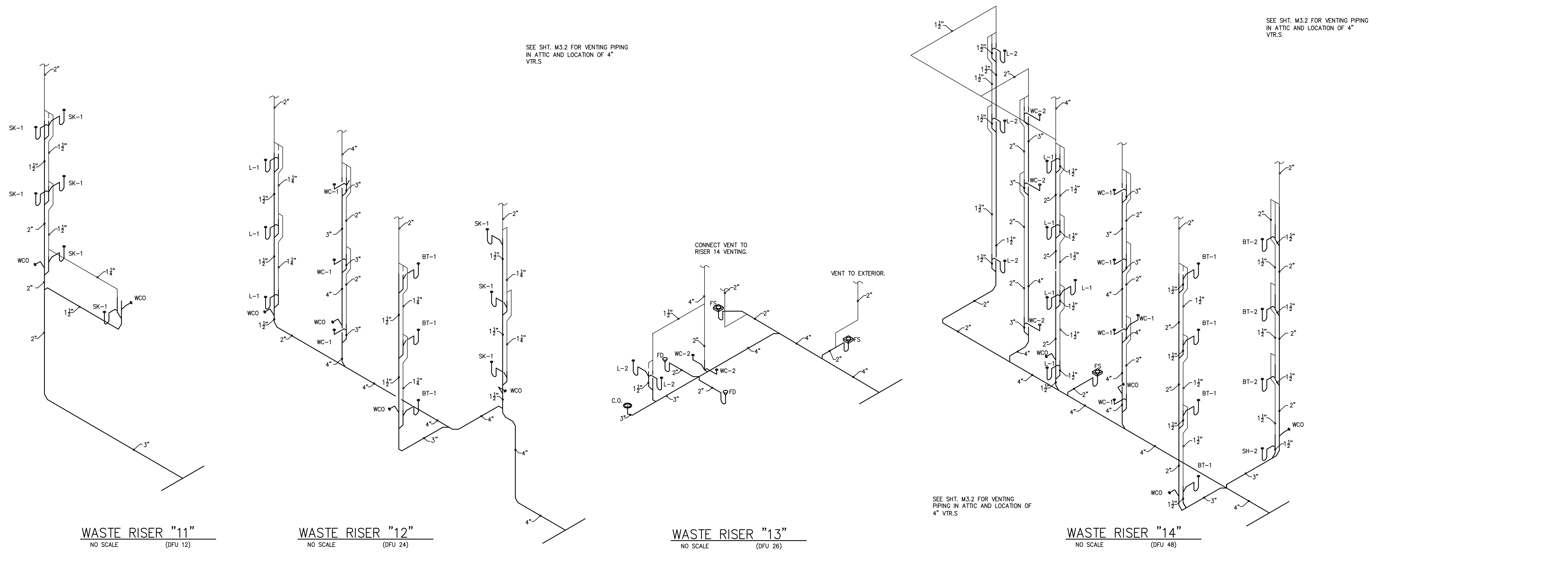
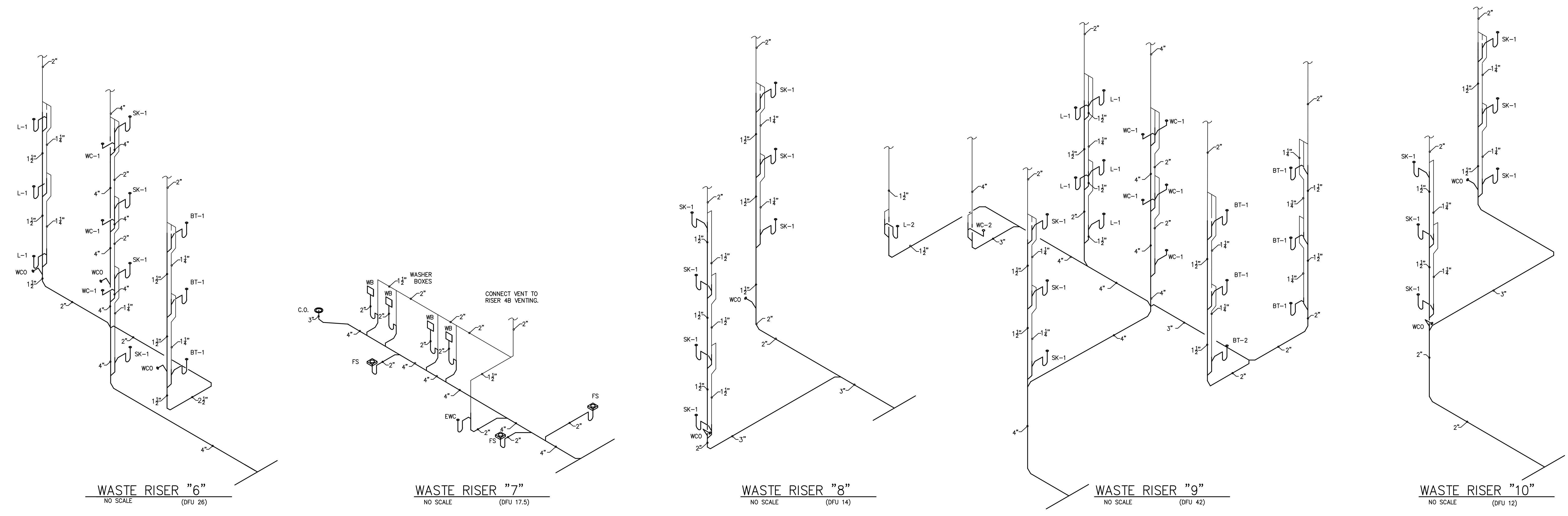
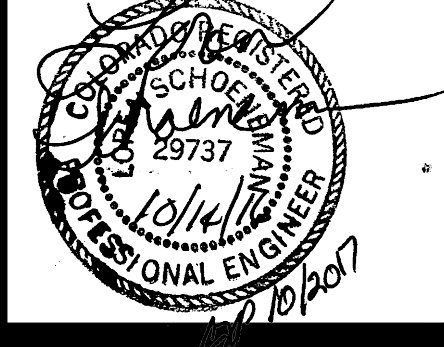
**WASTE RISERS
PUEBLO, CO.**

PROJECT NO.
PE1621
DRAWN BY:
CH/SG/DD
CHECKED BY:

DATE:
10.27.2016

SHEET:

M2.2



SEE SHT. M3.2 FOR VENTING PIPING IN ATTIC AND LOCATION OF 4" VTR.5

SEE SHT. M3.2 FOR VENTING PIPING IN ATTIC AND LOCATION OF 4" VTR.5

SEE SHT. M3.2 FOR VENTING PIPING IN ATTIC AND LOCATION OF 4" VTR.5

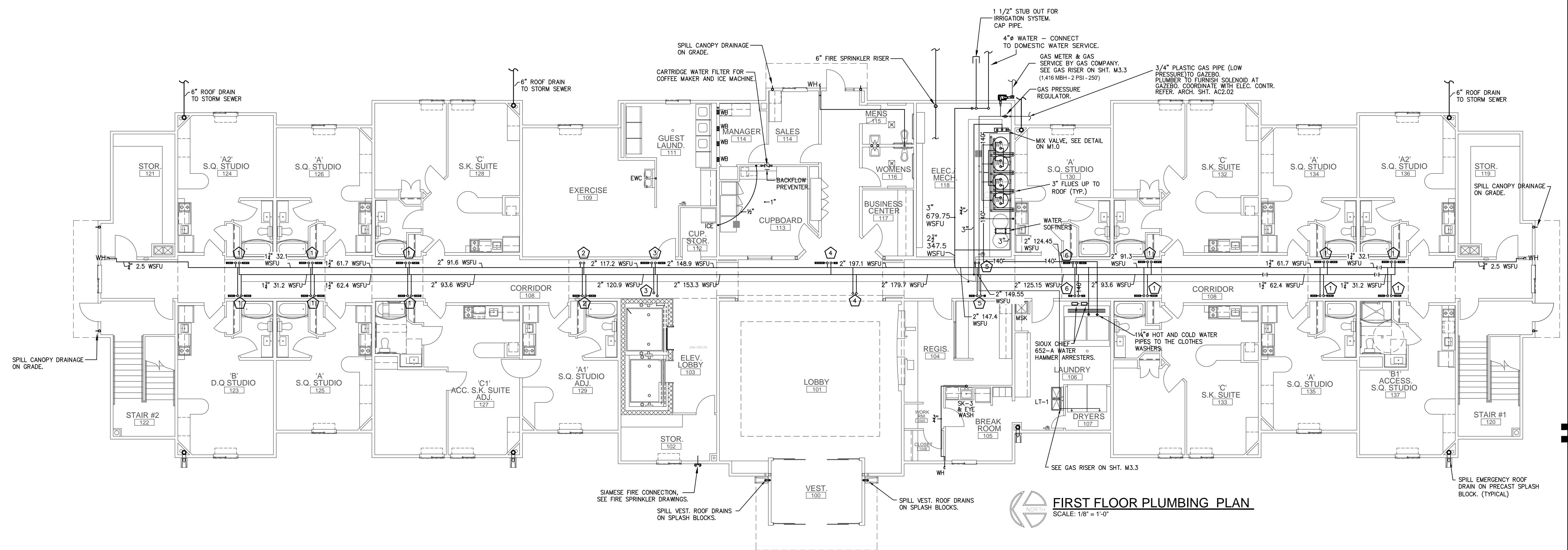
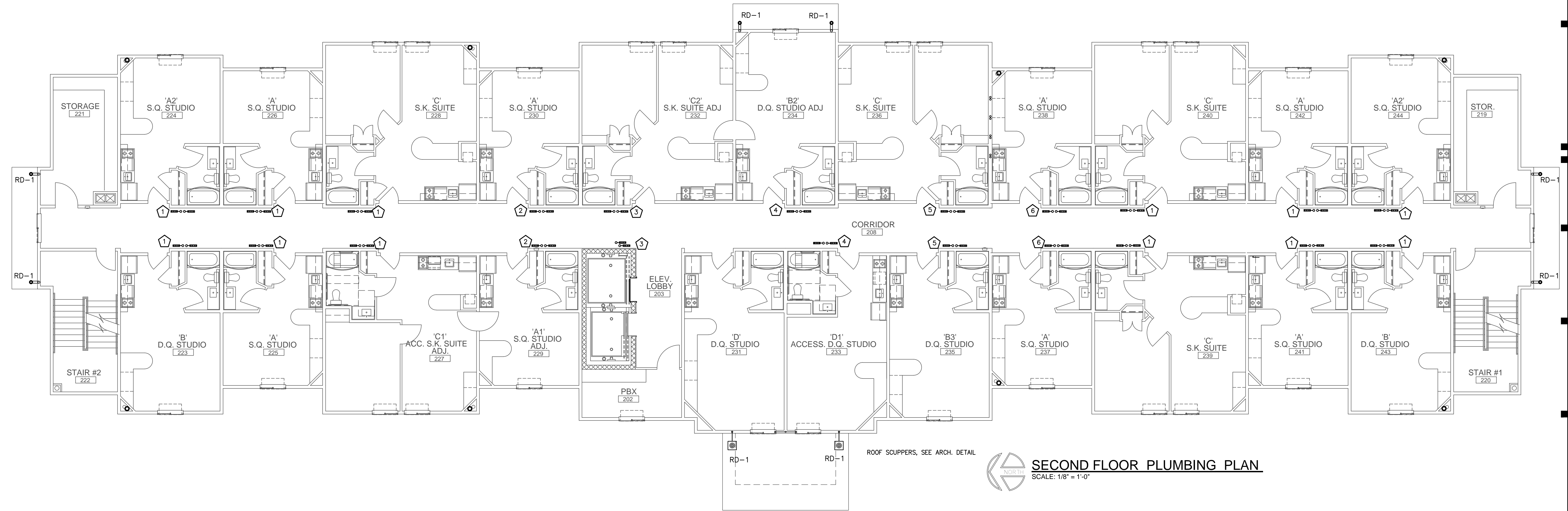
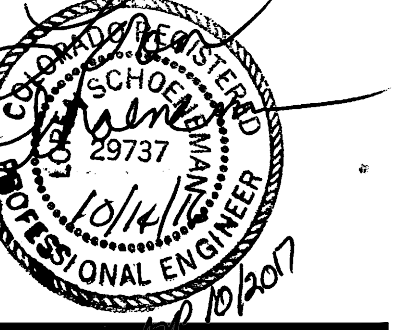
SHEET NAME:
**WASTE RISERS
PUEBLO, CO.**

PROJECT NO.
PE1621
DRAWN BY:
CH/SG/DD
CHECKED BY:

DATE:
10.27.2016

SHEET:

M2.3



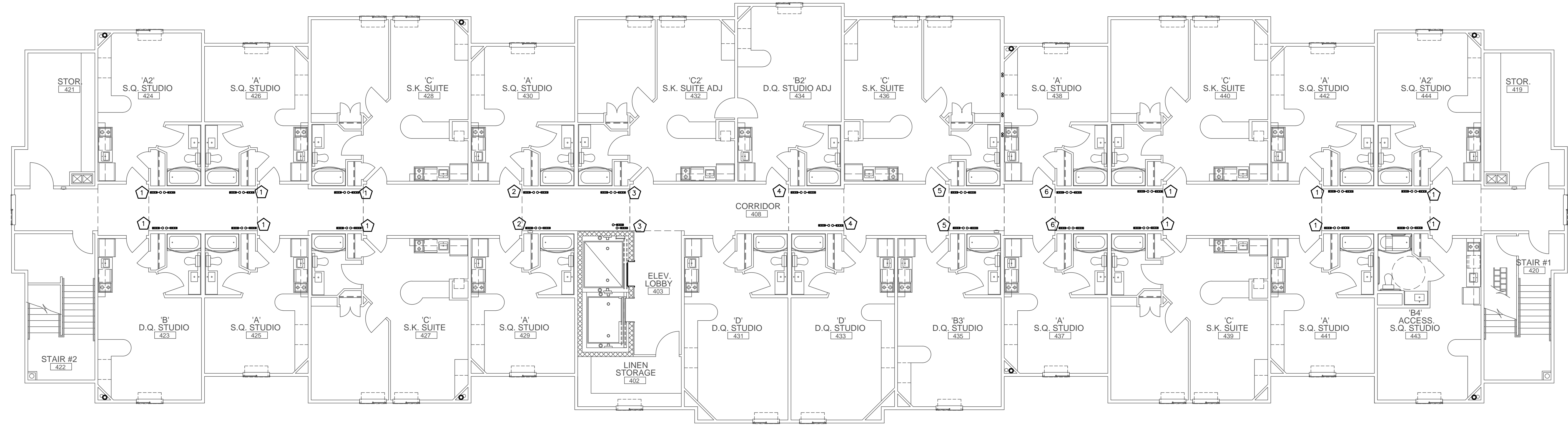
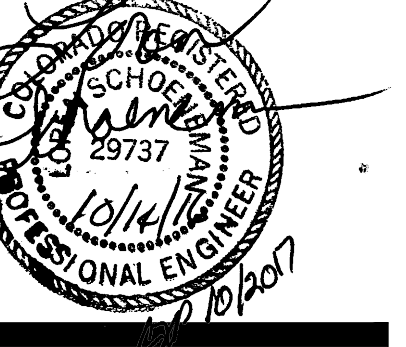
SHEET NAME:
FIRST & SECOND FLOOR PLUMBING PLAN
PUEBLO, CO.

PROJECT NO.
PE1621
DRAWN BY:
CH/SG/DD
CHECKED BY:

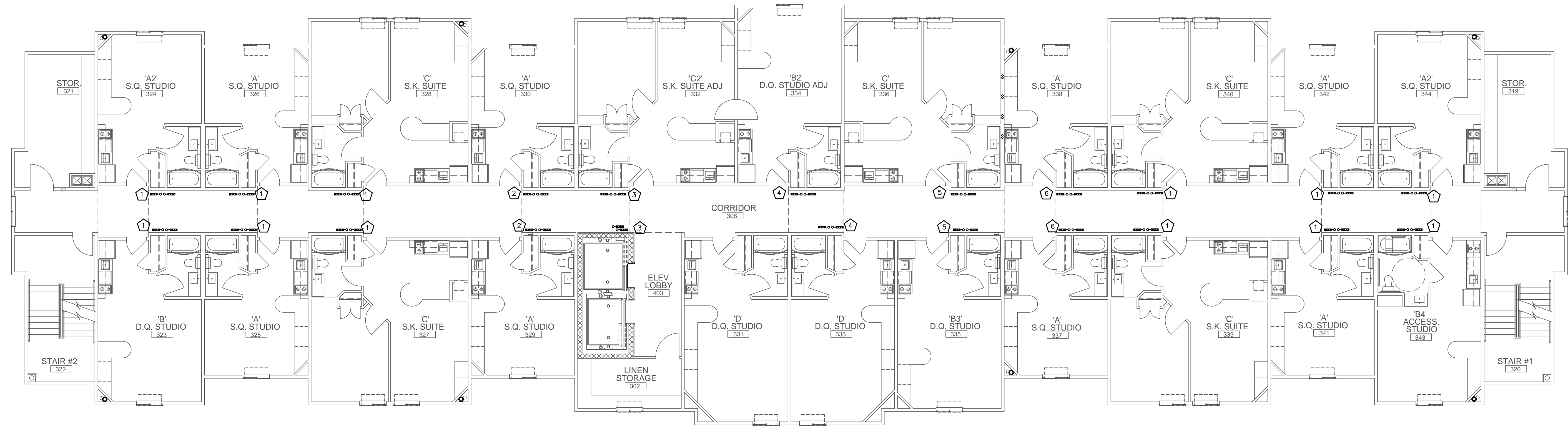
DATE:
10.27.2016

SHEET:

M3.0



FOURTH FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"



THIRD FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"

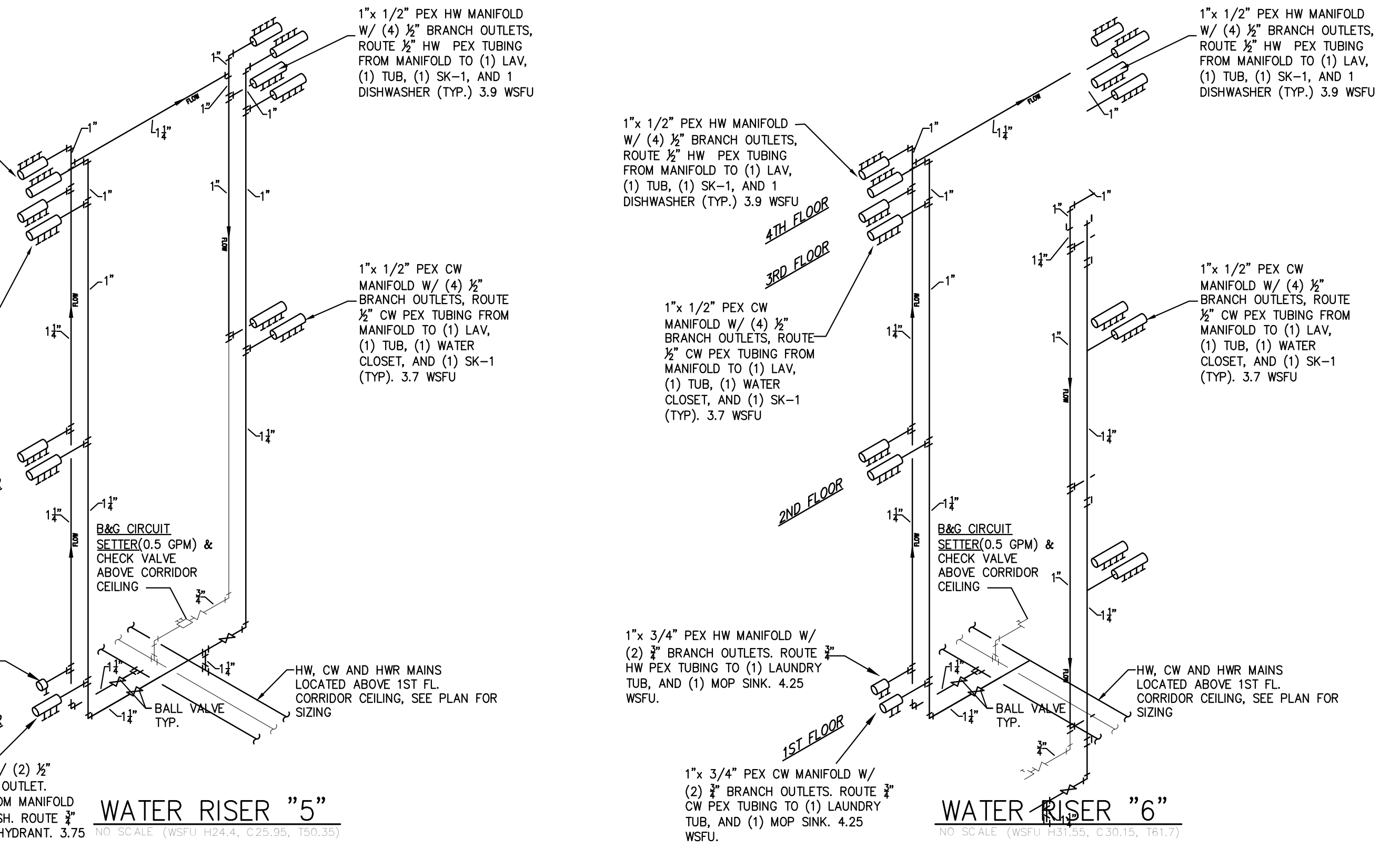
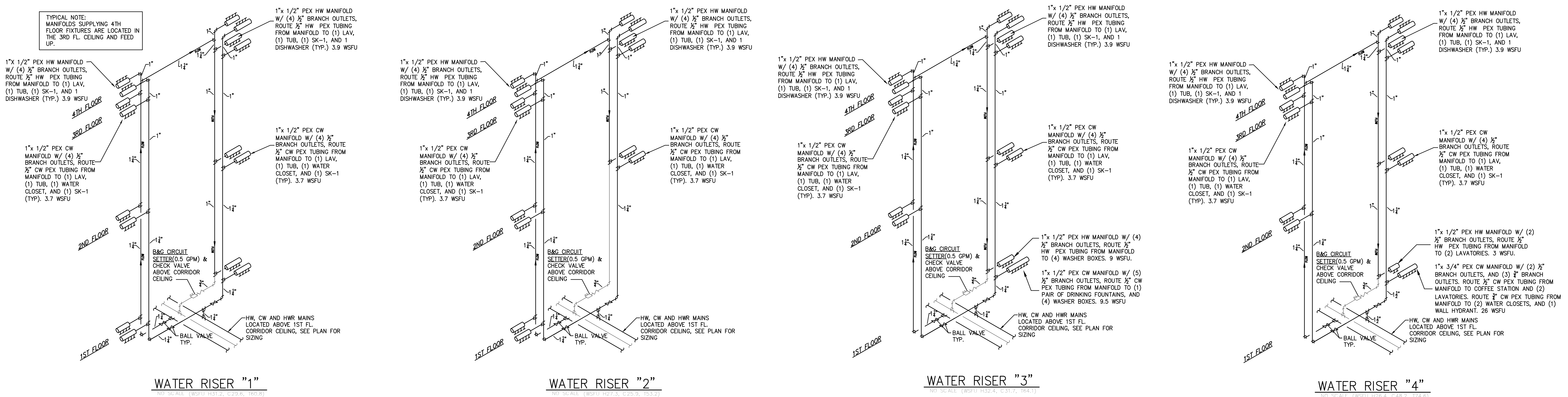
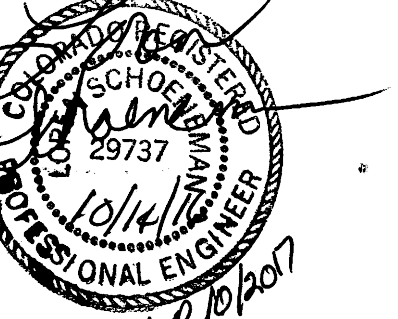
SHEET NAME:
THIRD & FOURTH FLOOR PLUMBING PLAN
PUEBLO, CO.

PROJECT NO.
PE1621
DRAWN BY:
CH/SG/DD
CHECKED BY:

DATE:
10.27.2016

SHEET:

M3.1



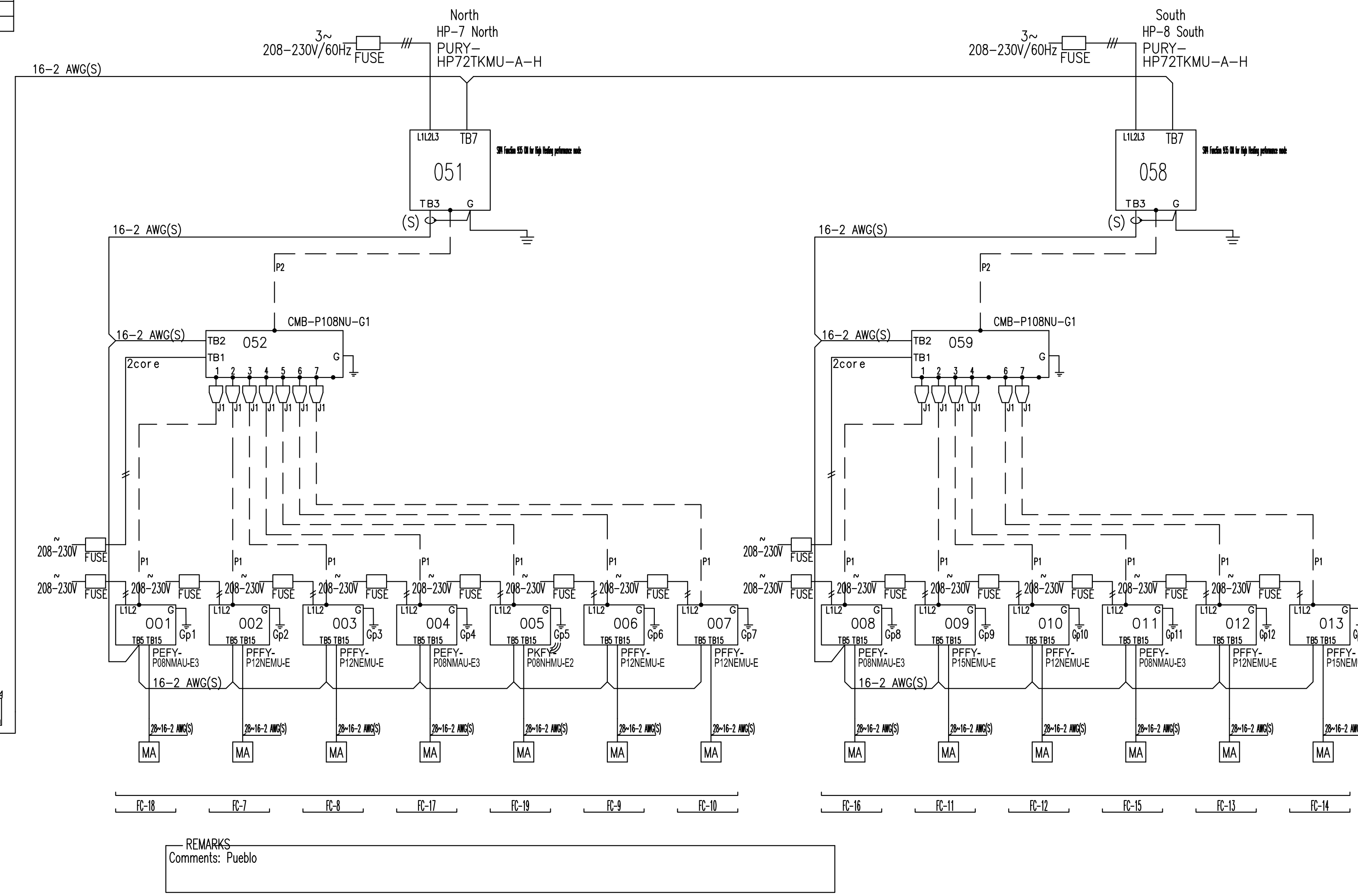
Pueblo

DIAGRAM SYMBOL	LEGEND	CONT.No	PAGE
---	POWER WIRE		
---	CONTROL WIRE		
---	TRC. PIPE		

PIPING LIST

SYMBOL	BRANCH PEX W/WT W/WT	Reduction	SYMBOL	TRC. PIPE	PEX SIZE
P1	1/4"	1/2"			
P2	5/8"	3/4"			

CITY MULTI SYSTEM SCHEMATIC DWG.



MITSUBISHI CITY MULTI VRF INDOOR UNIT SCHEDULE

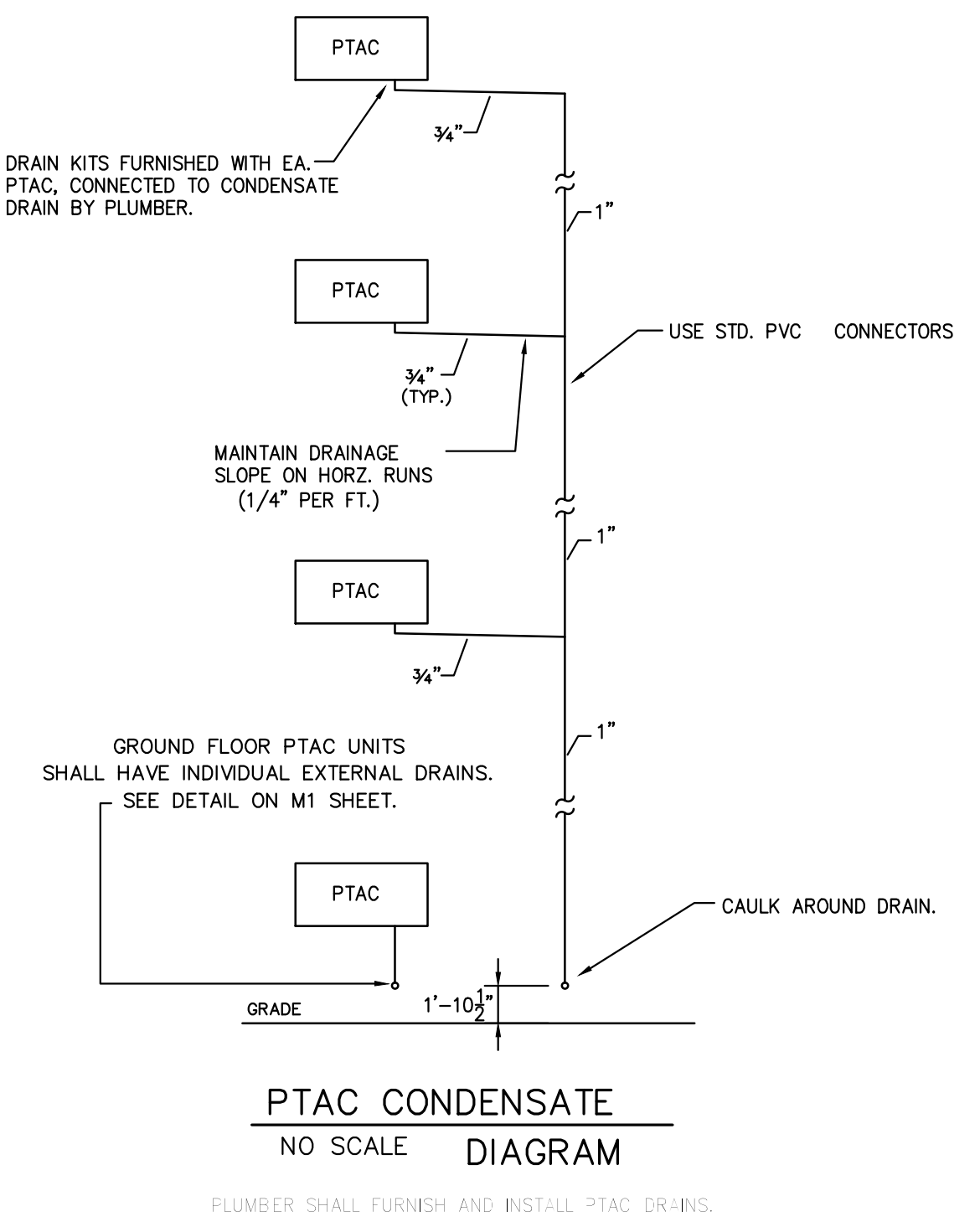
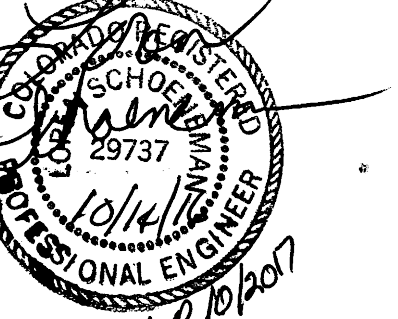
Tag Reference	Model	Cooling Design Entering Temp DBWB (°F)	Heating Design Entering Temp DBWB (°F)	Cooling Diversity Full/Partial (See Note 5, 6)	Cooling Sensible Capacity (BTU/h)	Heating Diversity Full/Partial (See Note 5, 6)	Heating Capacity (BTU/h)	Voltage / Phase	Electrical MCA/MPS	Notes / Options
FC-18	PEFY-P08NMU-E3	80.0/67.0	70.0	FULL DEMAND	6,725.0	5,940.8	6,503.2	208/230V/1-phase/30V/15	1.05/208V/1.05/2	
FC-7	PPFY-P12NMU-E	80.0/67.0	70.0	FULL DEMAND	9,954.9	7,228.7	9,723.1	208/230V/1-phase/340.38/15		
FC-8	PPFY-P12NMU-E	80.0/67.0	70.0	FULL DEMAND	9,883.8	7,200.0	9,705.8	208/230V/1-phase/340.38/15		
FC-17	PEFY-P08NMU-E3	80.0/67.0	70.0	FULL DEMAND	6,698.9	5,931.1	6,497.2	208/230V/1-phase/30V/15	1.05/208V/1.05/2	
FC-19	PEFY-P08NMU-E3	80.0/67.0	70.0	FULL DEMAND	6,394.8	6,218.0	6,422.5	208/230V/1-phase/30V/15	1.05/208V/1.05/2	
FC-8	PPFY-P12NMU-E	80.0/67.0	70.0	FULL DEMAND	9,813.3	7,171.7	9,688.5	208/230V/1-phase/340.38/15		
FC-10	PEFY-P08NMU-E3	80.0/67.0	70.0	FULL DEMAND	9,743.5	7,143.6	9,671.3	208/230V/1-phase/340.38/15	1.05/208V/1.05/2	
FC-16	PPFY-P12NMU-E	80.0/67.0	70.0	FULL DEMAND	6,725.5	5,941.0	6,503.2	208/230V/1-phase/30V/15		
FC-11	PPFY-P12NMU-E	80.0/67.0	70.0	FULL DEMAND	12,579.9	9,143.2	12,243.9	208/230V/1-phase/400.44/15		
FC-12	PPFY-P12NMU-E	80.0/67.0	70.0	FULL DEMAND	9,992.3	7,243.8	9,705.8	208/230V/1-phase/340.38/15		
FC-15	PEFY-P08NMU-E3	80.0/67.0	70.0	FULL DEMAND	6,725.5	5,941.0	6,497.2	208/230V/1-phase/30V/15	1.05/208V/1.05/2	
FC-13	PPFY-P12NMU-E	80.0/67.0	70.0	FULL DEMAND	9,922.1	7,215.5	9,688.5	208/230V/1-phase/340.38/15		
FC-14	PPFY-P12NMU-E	80.0/67.0	70.0	FULL DEMAND	12,315.8	9,037.2	12,178.6	208/230V/1-phase/400.44/15		

MITSUBISHI CITY MULTI VRF OUTDOOR UNIT SCHEDULE

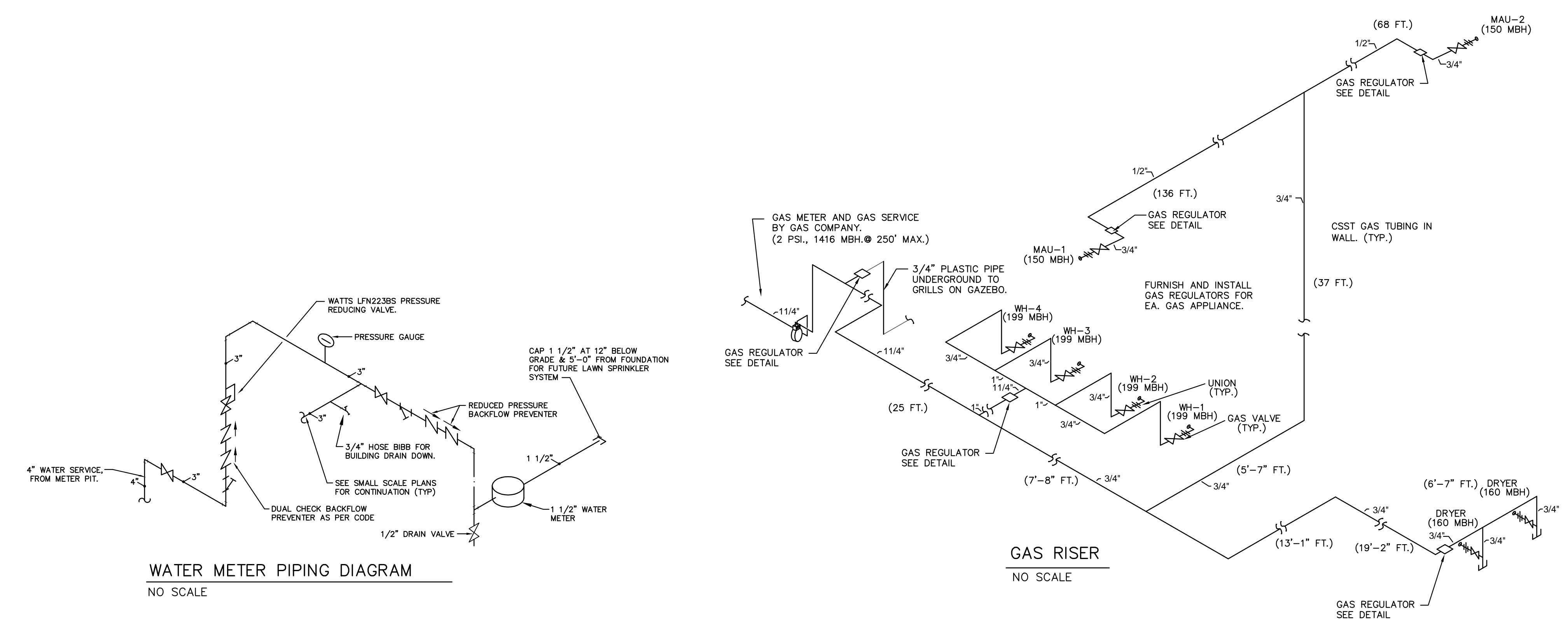
Tag Reference	Model Number	Cooling Efficiency IEER/EEER/SEER	Heating COP @ 47°F [HSFP]	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Voltage / Phase	Electrical-Per Module	Notes / Options
HP-7 North	PURY-HPZTKMLA-A-H	18.4/13	3.55	97.0	-7.6	59,214.2	58,211.4	208/230V/3-phase 3-wire	MCA 208/230 or 460V RFS MOCOP	1, 2
HP-8 South	PURY-HPZTKMLA-A-H	18.4/13	3.55	97.0	-7.6	58,260.1	56,817.1	208/230V/3-phase 3-wire	44/40 50 76/69	1, 2

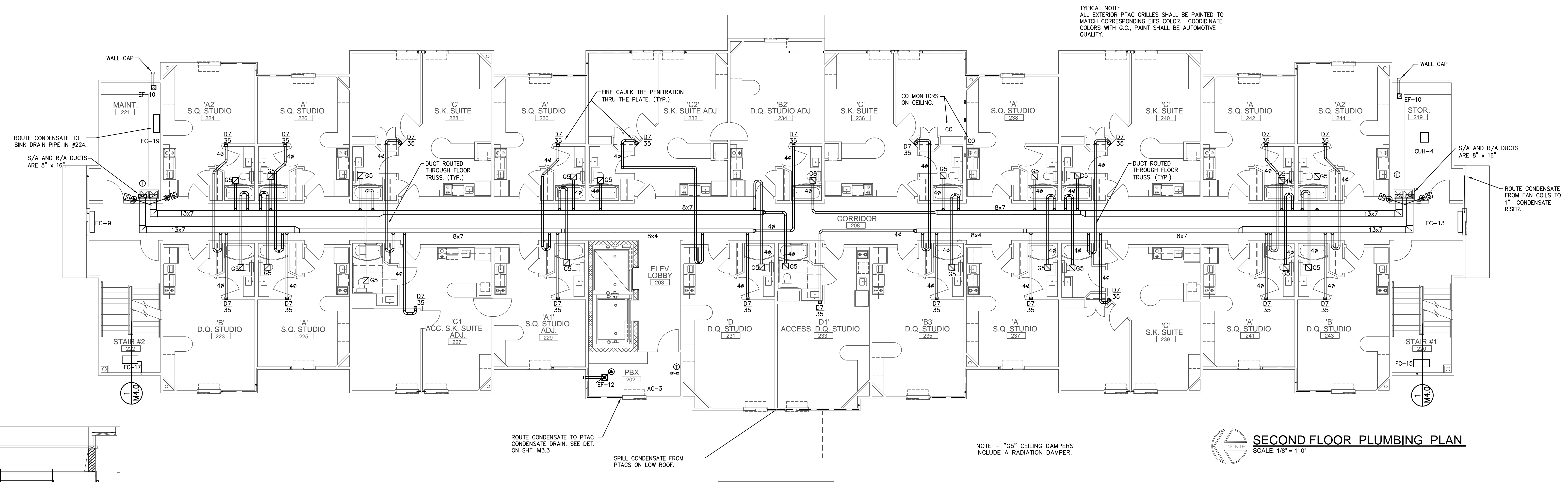
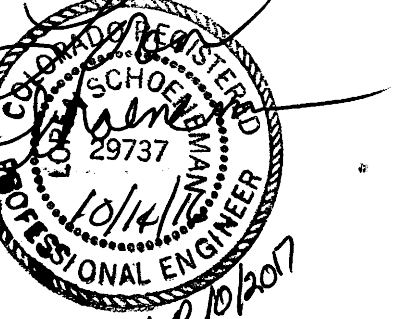
Notes & Options:
 1 Hyper-heating unit provides up to 83% heating capacity at -13F.
 2 Simultaneous cooling and heating possible down to -4F.

FOR REFERENCE ONLY

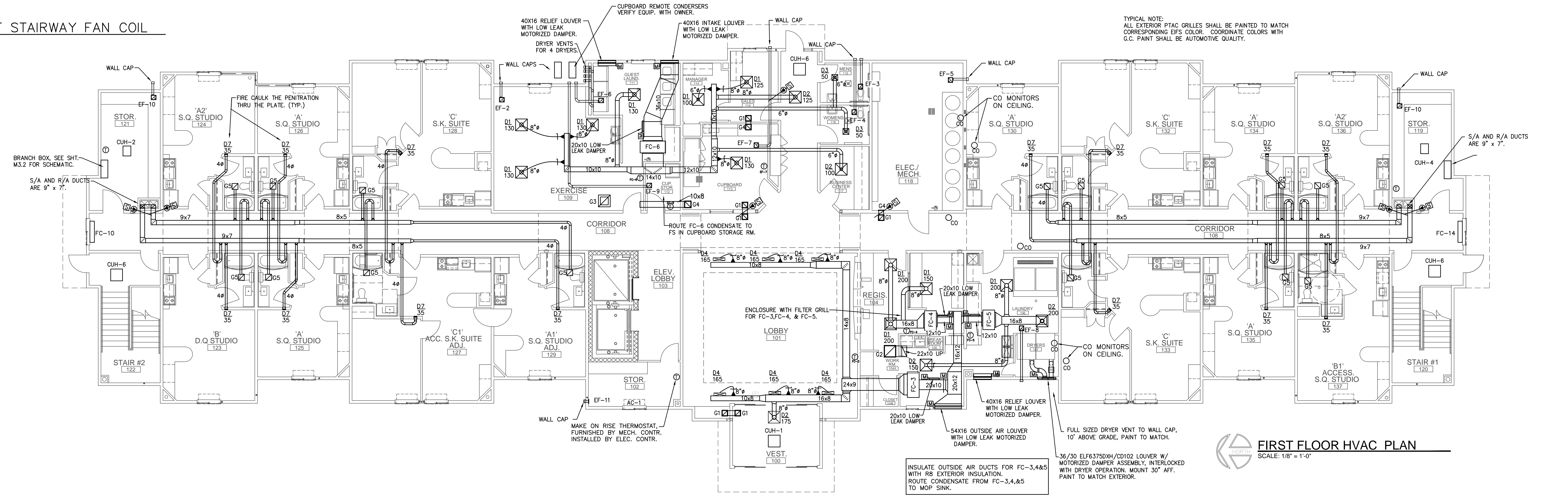


OUTDOOR AIR									
ROOM NAME	ROOM NUMBER	AREA SF	CFM/SF	PEOPLE/SF	CFM/PERSON	AREA CFM	PEOPLE CFM	TOTAL CFM	
VESTIBULE	100	148	0.06	0	0	9	0	9	
LOBBY	101	775	0.06	0.03	8	47	175	221	
STORAGE	102	115	0.12	0	0	14	0	14	
ELEV LOBBY	103	132	0.06	0.03	8	8	30	38	
REGISTRATION	104	257	0.06	0.005	5	15	6	21	
WORK ROOM	104A	26	0.06	0.005	5	2	1	7	
CLOSET	104B	32	0.12	0	0	4	0	4	
BREAK ROOM	105	130	0.06	0.03	8	8	29	37	
LAUNDRY	106	268	0	0.01	25	0	82	82	
DRYERS	107	52	0	0.01	25	0	13	13	
CORRIDOR	108	1708	0.06	0	0	102	0	102	
EXERCISE	109	450	0.06	0.01	20	27	90	117	
GUEST LAUNDRY	111	208	0	0.01	25	0	52	52	
CUP STORAGE	112	47	0.12	0	0	6	0	6	
CURBOARD	113	188	0.12	0	0	23	0	23	
MANAGER	114A	71	0.06	0.005	5	4	2	6	
SALES	114B	76	0.06	0.005	5	5	2	6	
BUSINESS CENTER	117	84	0.06	0.005	5	5	2	7	
ELEC/MECH	118	384	0.12	0	0	46	0	46	
STAIR 1	119	201	0.12	0	0	24	0	24	
STAIR 2	120	219	0.06	0	0	13	0	13	
STAIR 1 STORAGE	121	201	0.12	0	0	24	0	24	
STAIR 2 STORAGE	122	219	0.06	0	0	13	0	13	
B.D.O. STUDIO	123	323	0.06	0.01	5	19	16	35	
AZ S.O. STUDIO	124	292	0.06	0.01	5	18	15	33	
A S.O. STUDIO	125	261	0.06	0.01	5	16	13	29	
A S.O. STUDIO	126	261	0.06	0.01	5	16	13	29	
CT ACC. S.K. SUITE ADJ.	127	501	0.06	0.01	5	30	25	55	
C S.K. SUITE	128	512	0.06	0.01	5	31	26	56	
A1 S.O. STUDIO ADJ.	129	260	0.06	0.01	5	16	13	29	
A S.O. STUDIO	130	261	0.06	0.01	5	16	13	29	
C S.K. SUITE	132	512	0.06	0.01	5	31	26	56	
C S.K. SUITE	133	512	0.06	0.01	5	31	26	56	
A S.O. STUDIO	134	261	0.06	0.01	5	16	13	29	
A S.O. STUDIO	135	261	0.06	0.01	5	16	13	29	
AZ S.O. STUDIO	136	292	0.06	0.01	5	18	15	33	
B1 ACCESS S.O. STUDIO	137	261	0.06	0.01	5	16	13	29	
PBX	202	117	0.12	0	0	14	0	14	
ELEV LOBBY	203	132	0.06	0.03	8	8	30	38	
CORRIDOR	208	1588	0.06	0	0	95	0	95	
STORAGE	219	201	0.12	0	0	24	0	24	
STAIR 1	220	219	0.06	0	0	13	0	13	
STAIR 2	221	201	0.12	0	0	24	0	24	
STAIR 2 STORAGE	222	219	0.06	0	0	13	0	13	
B.D.O. STUDIO	223	323	0.06	0.01	5	19	16	35	
AZ S.O. STUDIO	224	292	0.06	0.01	5	18	15	33	
A S.O. STUDIO	225	261	0.06	0.01	5	16	13	29	
A S.O. STUDIO	226	261	0.06	0.01	5	16	13	29	
CT ACC. S.K. SUITE ADJ.	227	501	0.06	0.01	5	30	25	55	
C S.K. SUITE	228	512	0.06	0.01	5	31	26	56	
A1 S.O. STUDIO ADJ.	229	260	0.06	0.01	5	16	13	29	
A S.O. STUDIO	230	261	0.06	0.01	5	16	13	29	
D.B.O. STUDIO	231	361	0.06	0.01	5	22	18	40	
C2 S.K. SUITE ADJ.	232	510	0.06	0.01	5	31	26	56	
D1 ACCESS D.O. STUDIO	233	344	0.06	0.01	5	21	17	38	
B2 D.O. STUDIO ADJ.	234	323	0.06	0.01	5	19	16	35	
B3 D.O. STUDIO	235	389	0.06	0.01	5	23	19	43	
C S.K. SUITE	236	512	0.06	0.01	5	31	26	56	
A S.O. STUDIO	237	261	0.06	0.01	5	16	13	29	
A S.O. STUDIO	238	261	0.06	0.01	5	16	13	29	
C S.K. SUITE	239	512	0.06	0.01	5	31	26	56	
C S.K. SUITE	240	512	0.06	0.01	5	31	26	56	
A S.O. STUDIO	241	261	0.06	0.01	5	16	13	29	
A S.O. STUDIO	242	261	0.06	0.01	5	16	13	29	
B.D.O. STUDIO	243	323	0.06	0.01	5	19	16	35	
AZ S.O. STUDIO	244	292	0.06	0.01	5	18	15	32	
LINEN STORAGE	302	117	0.12	0	0	14	0	14	
ELEV LOBBY	303	132	0.06	0.03	8	8	30	38	
CORRIDOR	308	1588	0.06	0	0	95	0	95	
STORAGE	319	201	0.12	0	0	24	0	24	
STAIR 1	320	219	0.06	0	0	13	0	13	
STAIR 2	321	201	0.12	0	0	24	0	24	
STAIR 2 STORAGE	322	219	0.06	0	0	13	0	13	
B.D.O. STUDIO	323	323	0.06	0.01	5	19	16	35	
AZ S.O. STUDIO	324	292	0.06	0.01	5	18	15	32	
A S.O. STUDIO	325	261	0.06	0.01	5	16	13	29	
A S.O. STUDIO	326	261	0.06	0.01	5	16	13	29	
CT ACC. S.K. SUITE ADJ.	327	501	0.06	0.01	5	30	25	55	
C S.K. SUITE	328	512	0.06	0.01	5	31	26	56	
A1 S.O. STUDIO ADJ.	329	260	0.06	0.01	5	16	13	29	
A S.O. STUDIO	330	261	0.06	0.01	5	16	13	29	
D.B.O. STUDIO	331	361	0.06	0.01	5	22	18	40	
C2 S.K. SUITE ADJ.	332	510	0.06	0.01	5	31	26	56	
D.D.O. STUDIO	333	361	0.06	0.01	5	22	18	40	
B2 D.O. STUDIO ADJ.	334	323	0.06	0.01	5	19	16	35	
B3 D.O. STUDIO	335	389	0.06	0.01	5	23	19	43	
C S.K. SUITE	336	512	0.06	0.01	5	31	26	56	
A S.O. STUDIO	337	261	0.06	0.01	5	16	13	29	
A S.O. STUDIO	338	261	0.06	0.01	5	16	13	29	
C S.K. SUITE	339	512	0.06	0.01	5	31	26	56	
C S.K. SUITE	340	512	0.06	0.01	5	31	26	56	
A S.O. STUDIO	341	261	0.06	0.01	5	16	13	29	
A S.O. STUDIO	342	261	0.06	0.01	5	16	13	29	
B4 ACCESS STUDIO	343	308	0.06	0.01	5	18	15	34	
AZ S.O. STUDIO	344	292	0.06	0.01	5	18	15	32	

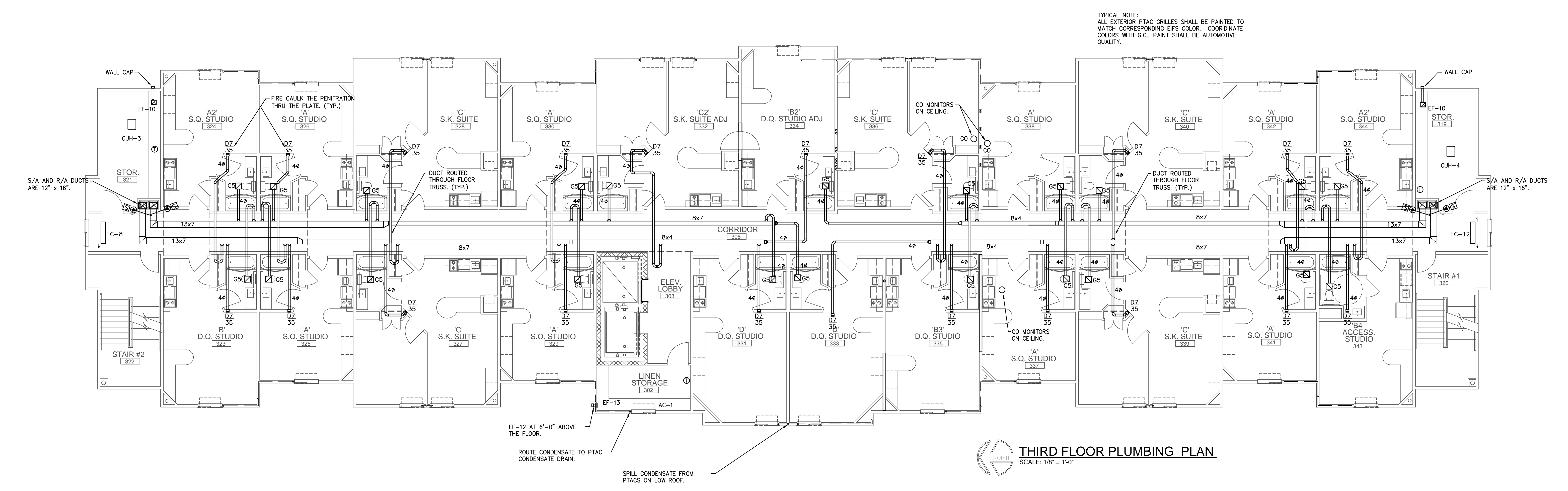
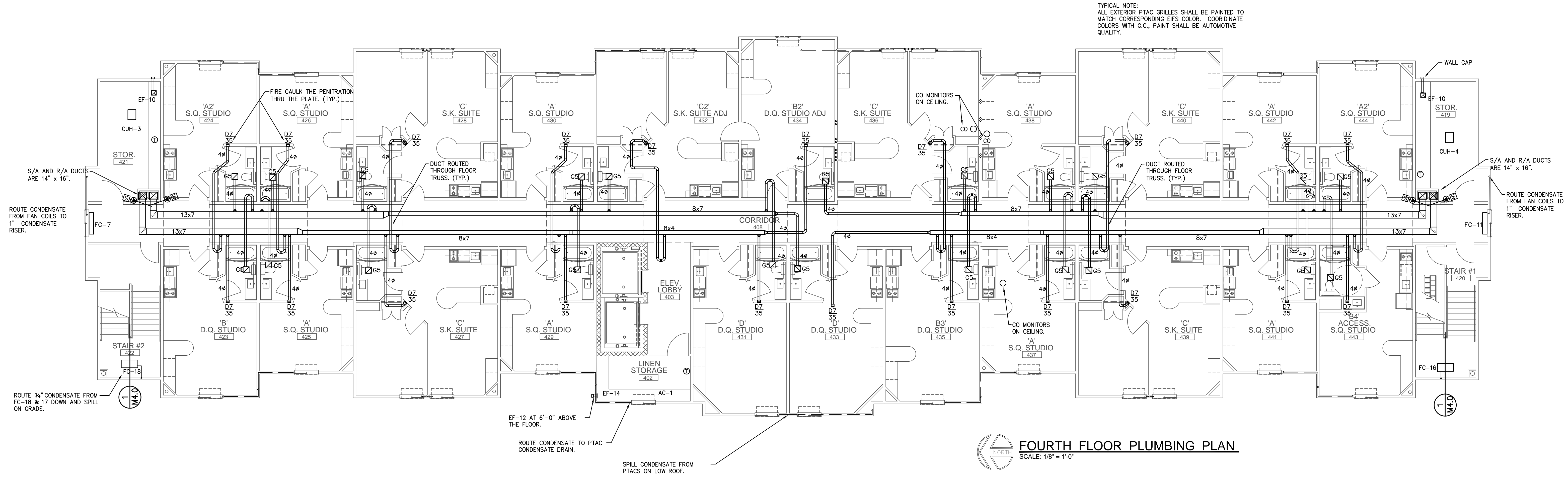
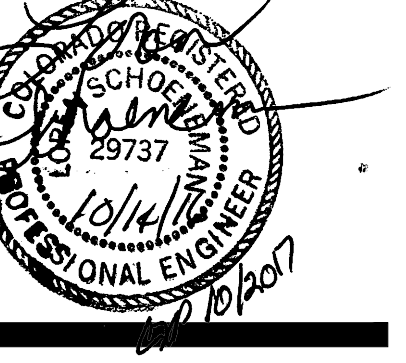




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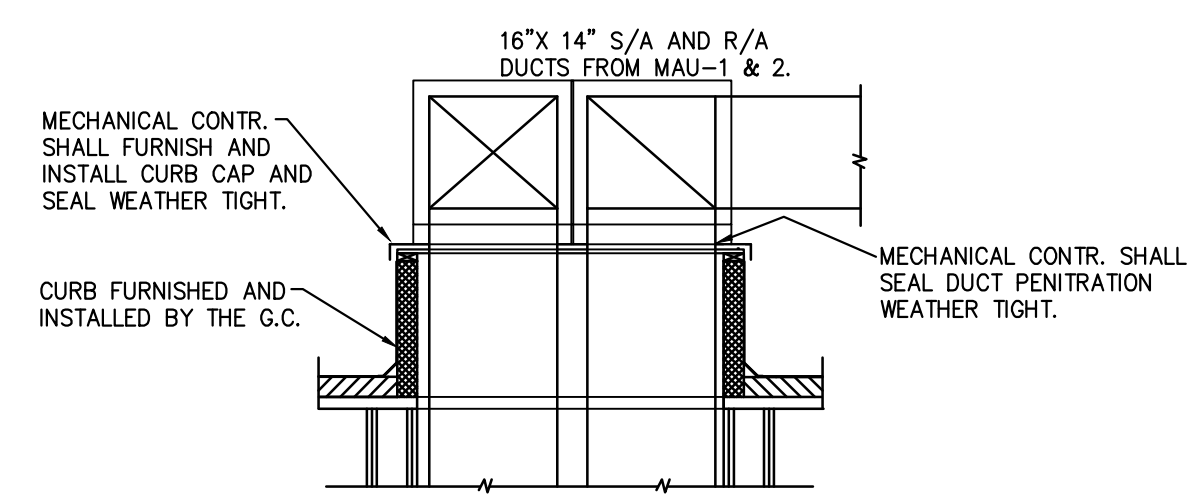
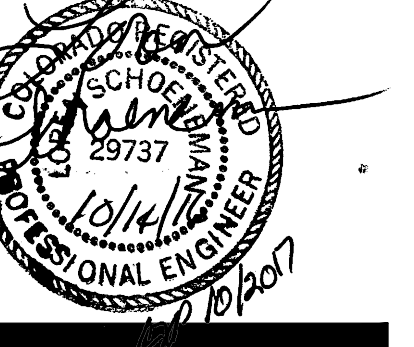
FIRST & SECOND FLOOR HVAC PLAN
PUEBLO, CO.



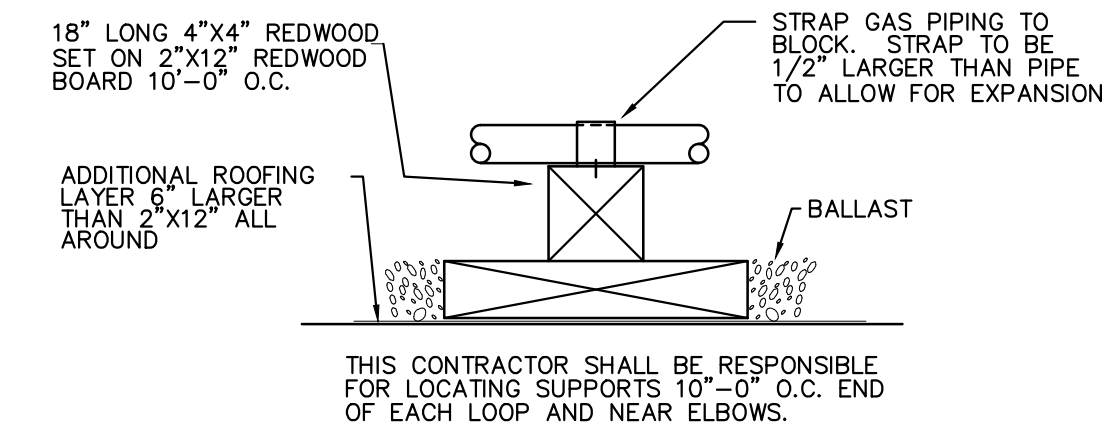
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PUEBLO, CO.

PROJECT NO. PE1621
DRAWN BY: CH/SG/DD
CHECKED BY:
DATE: 10.27.2016
SHEET:

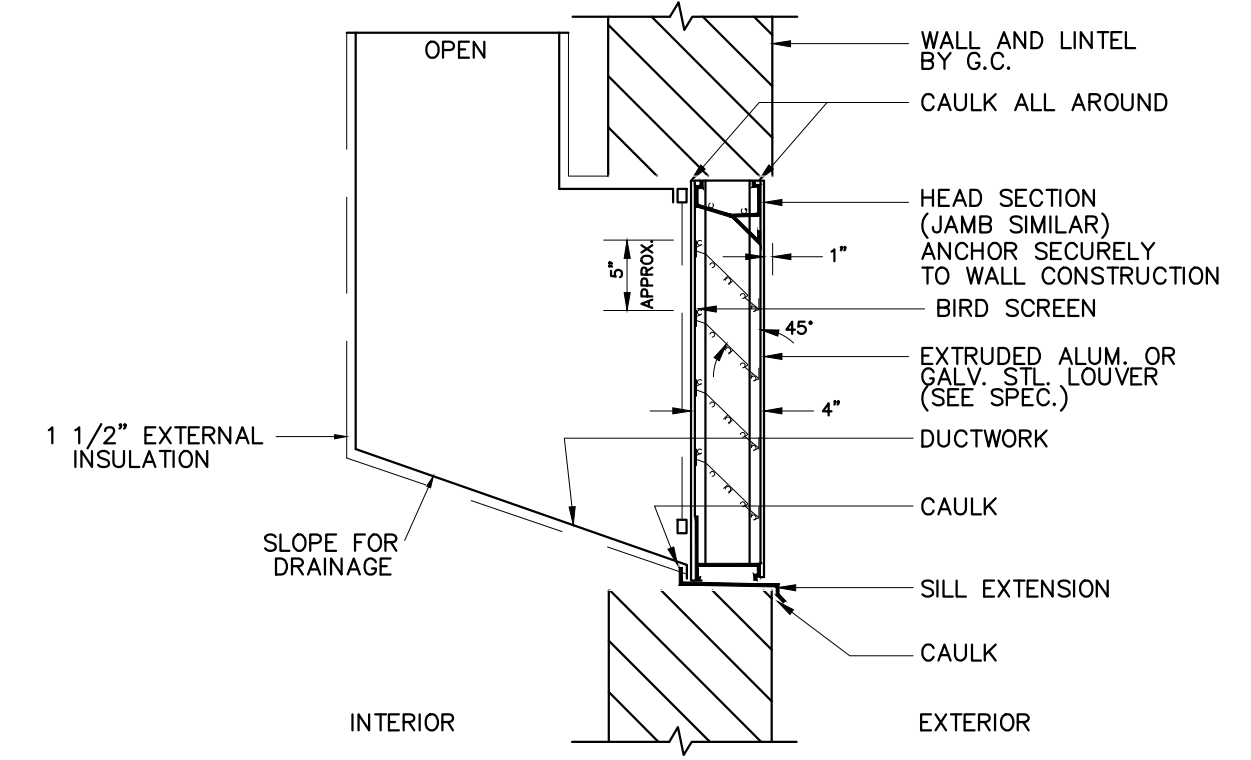
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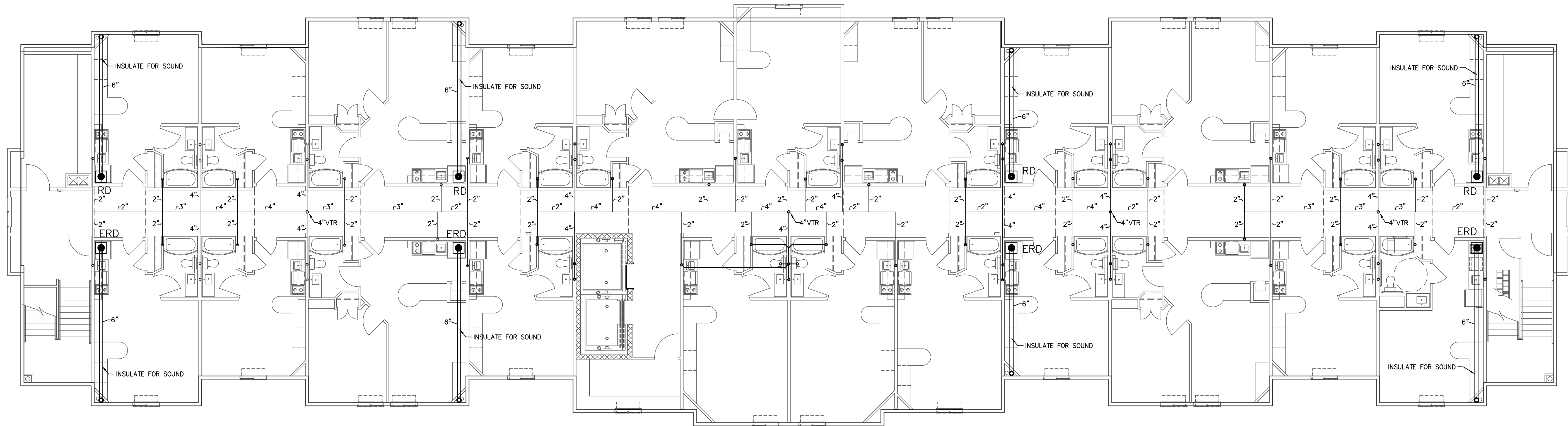
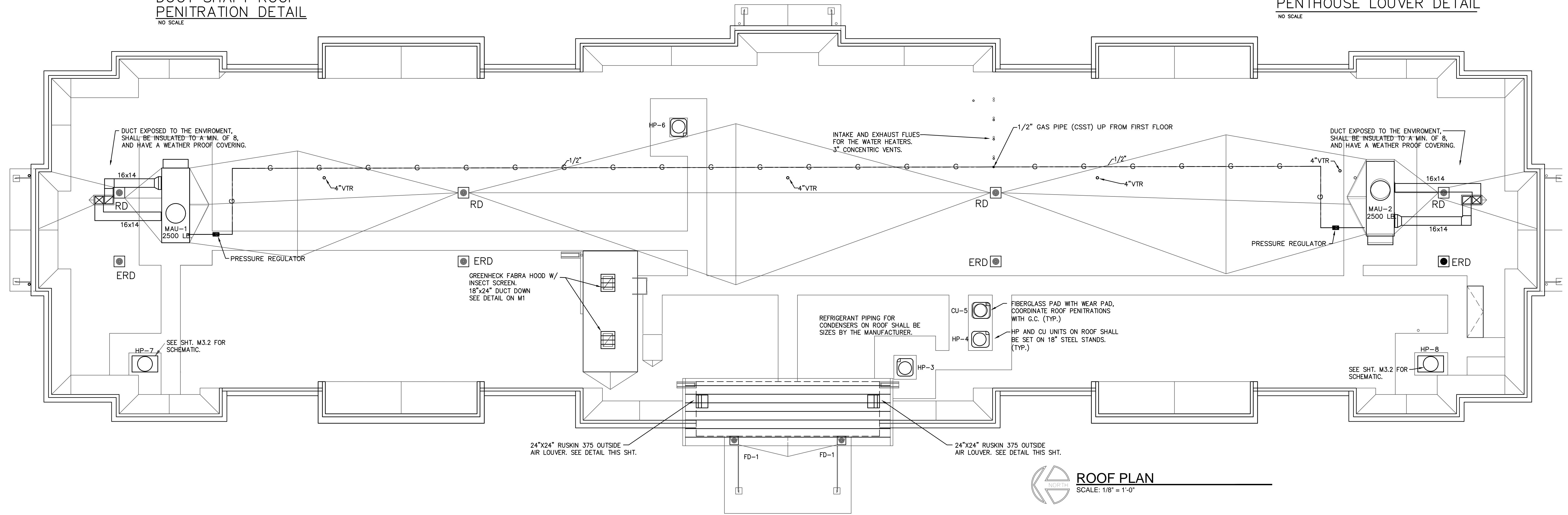
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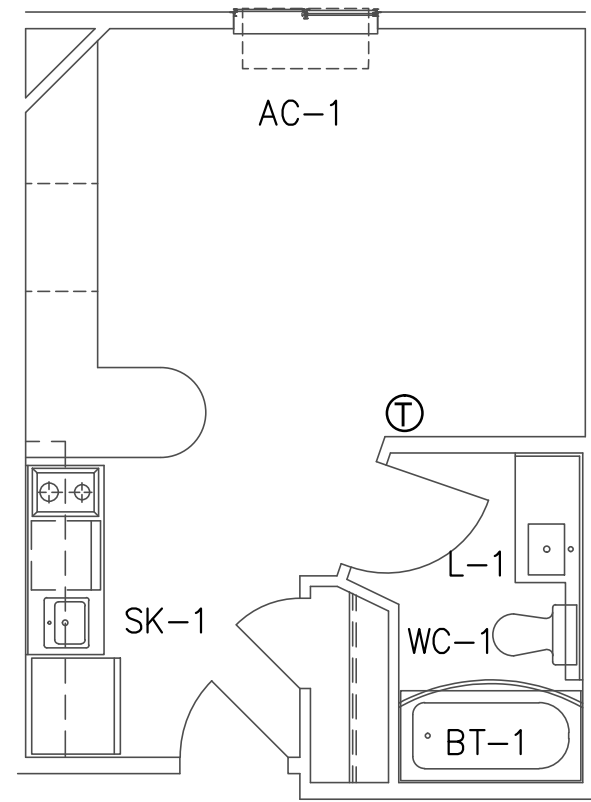
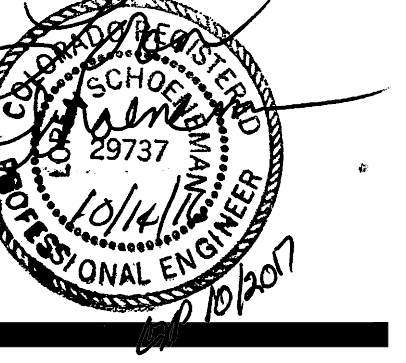
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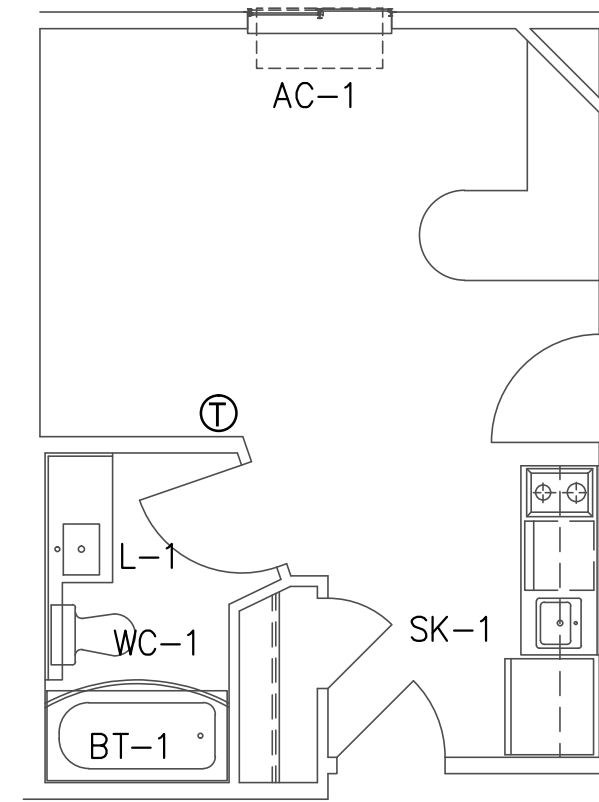
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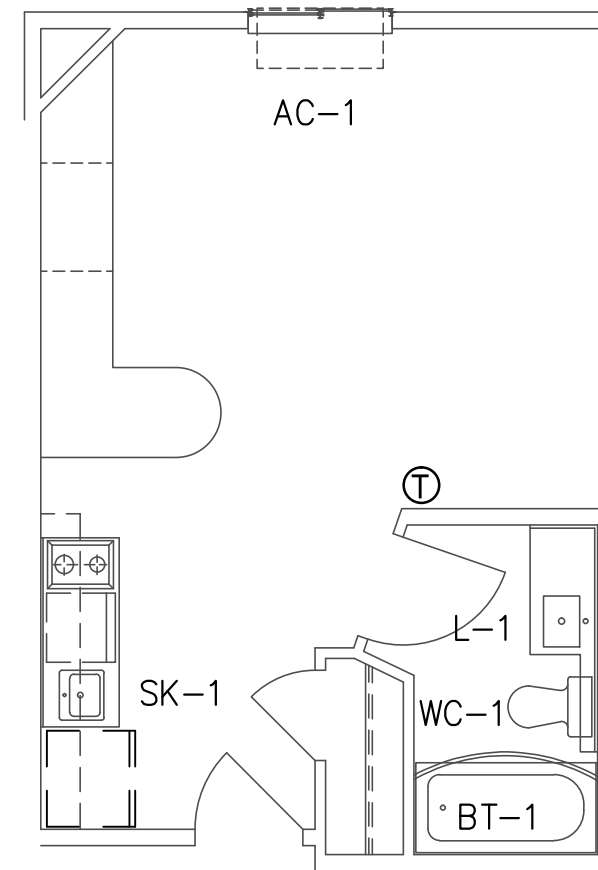
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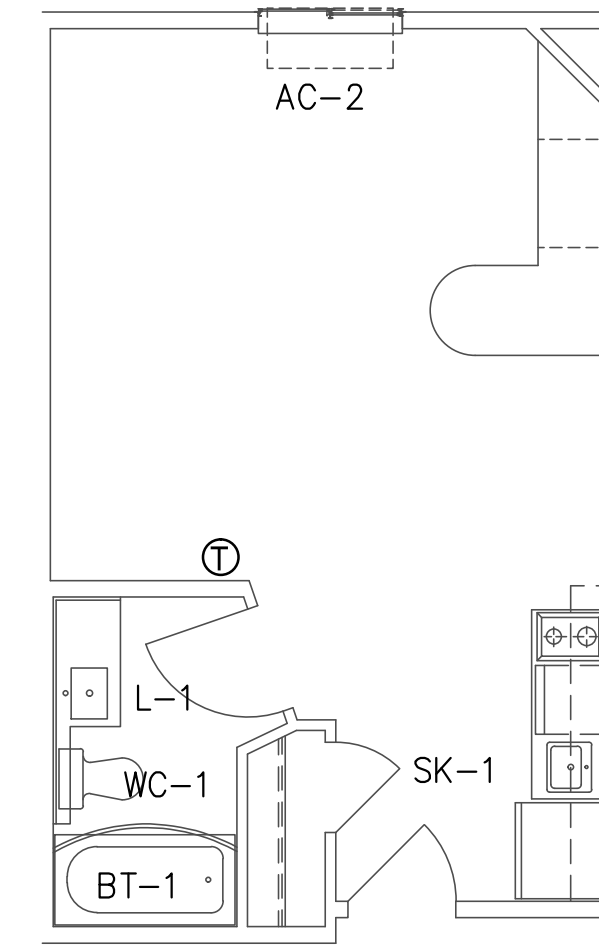
'A' S.Q. STUDIO



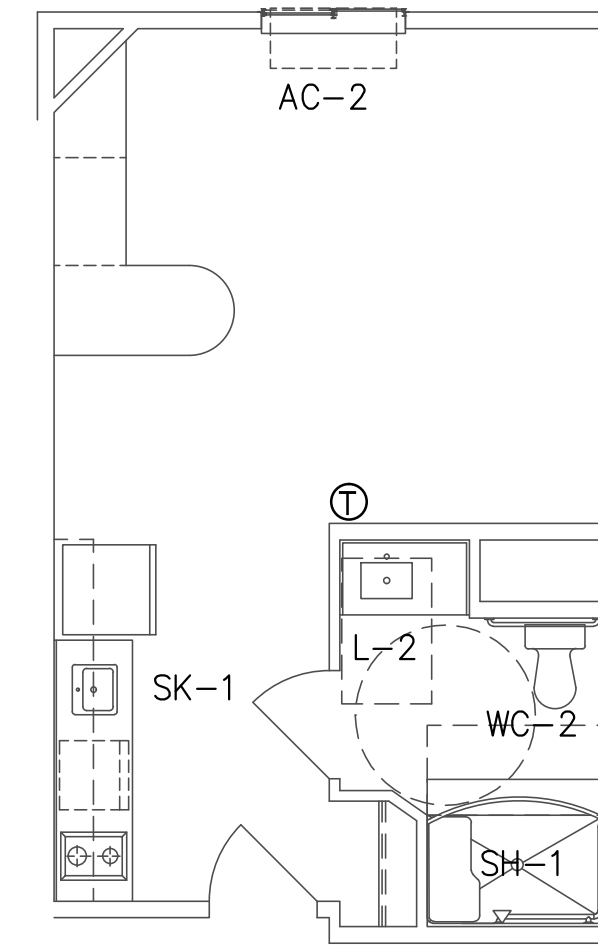
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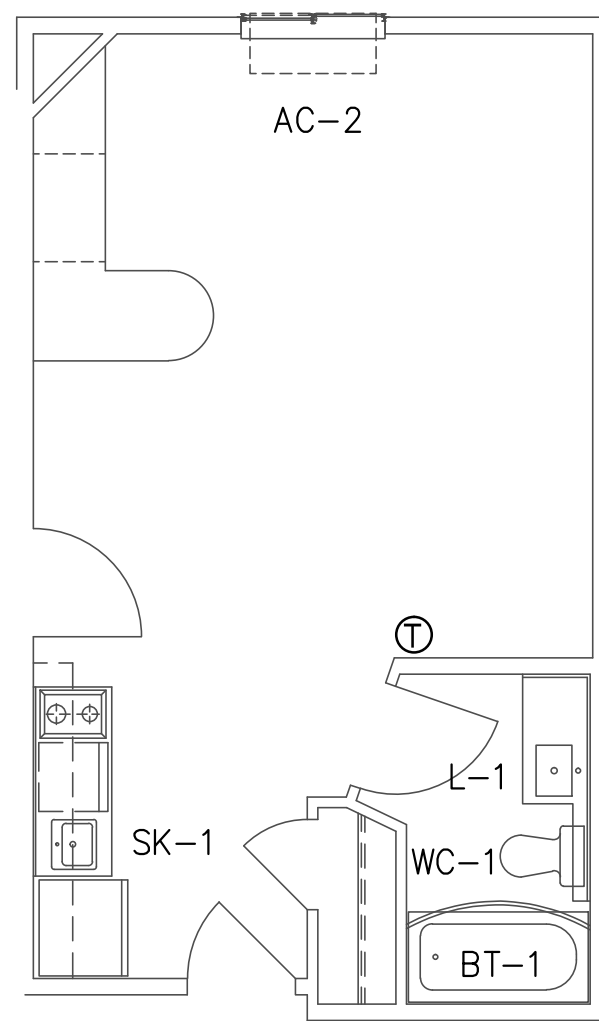
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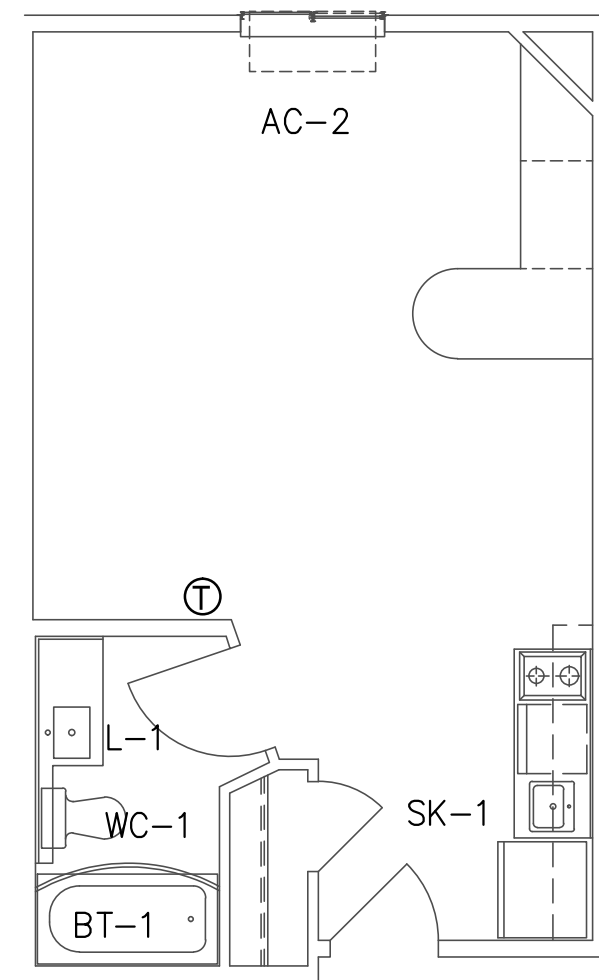
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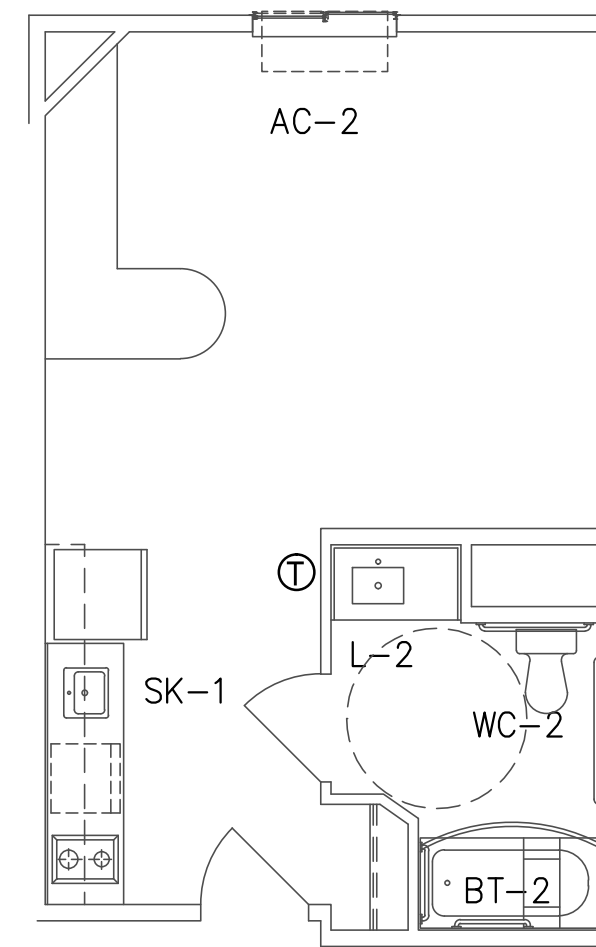
'B1' ACCESS. S.Q. STUDIO



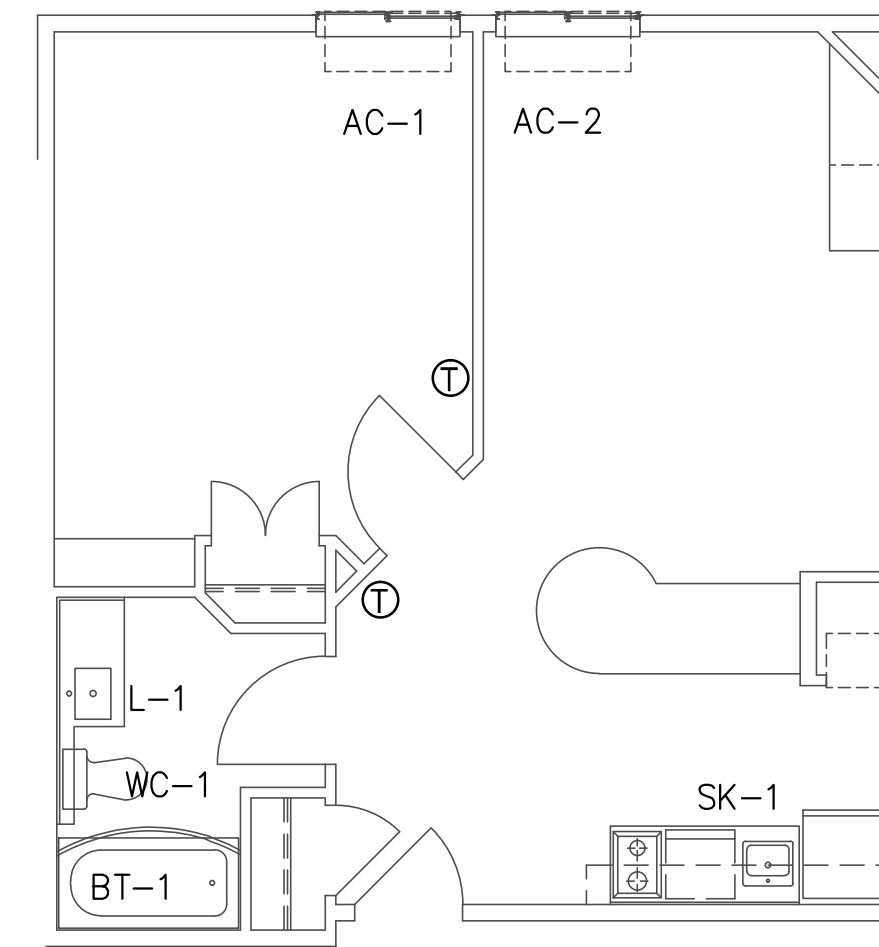
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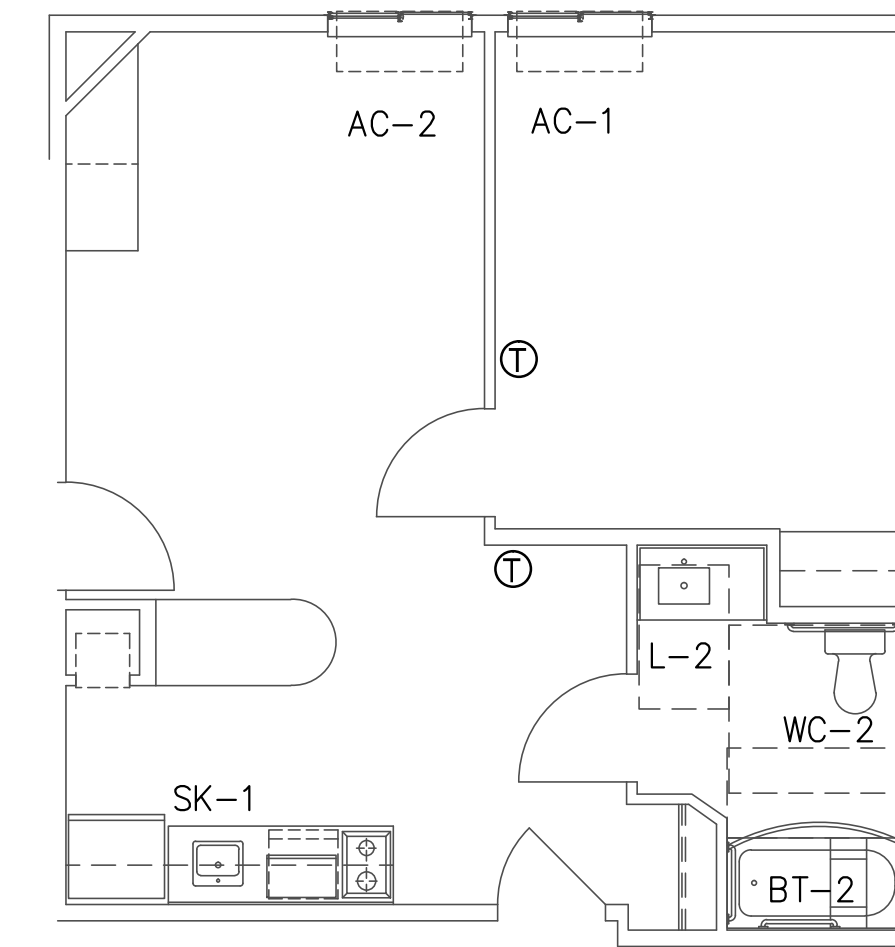
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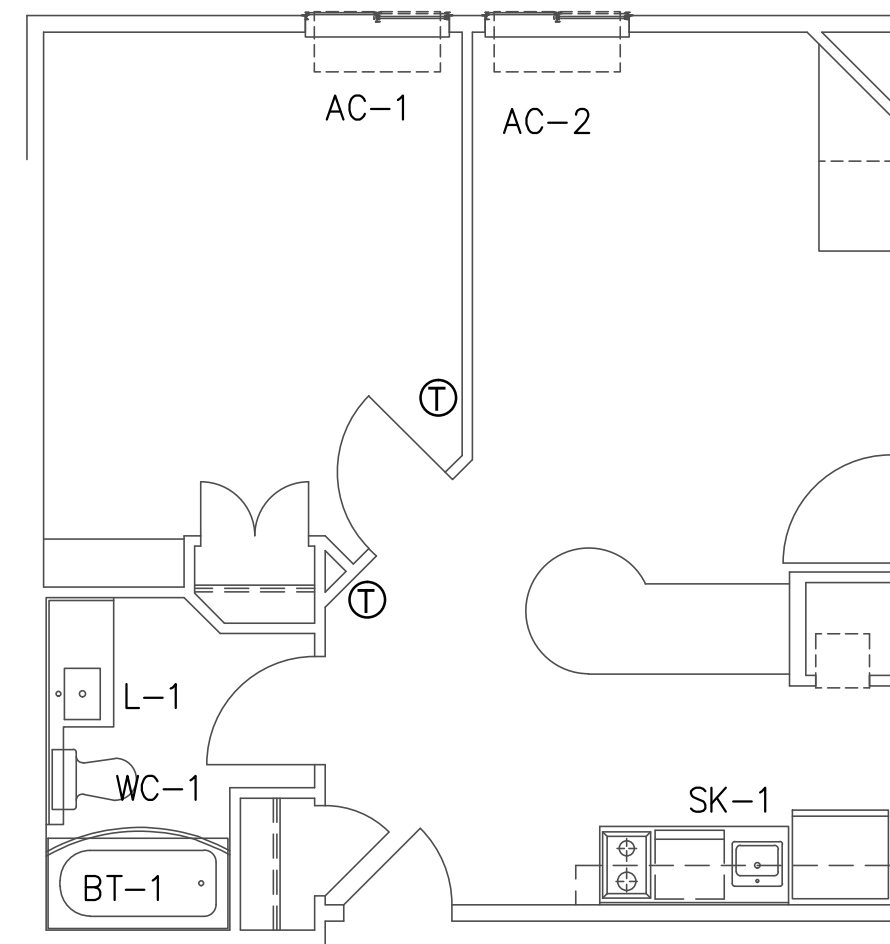
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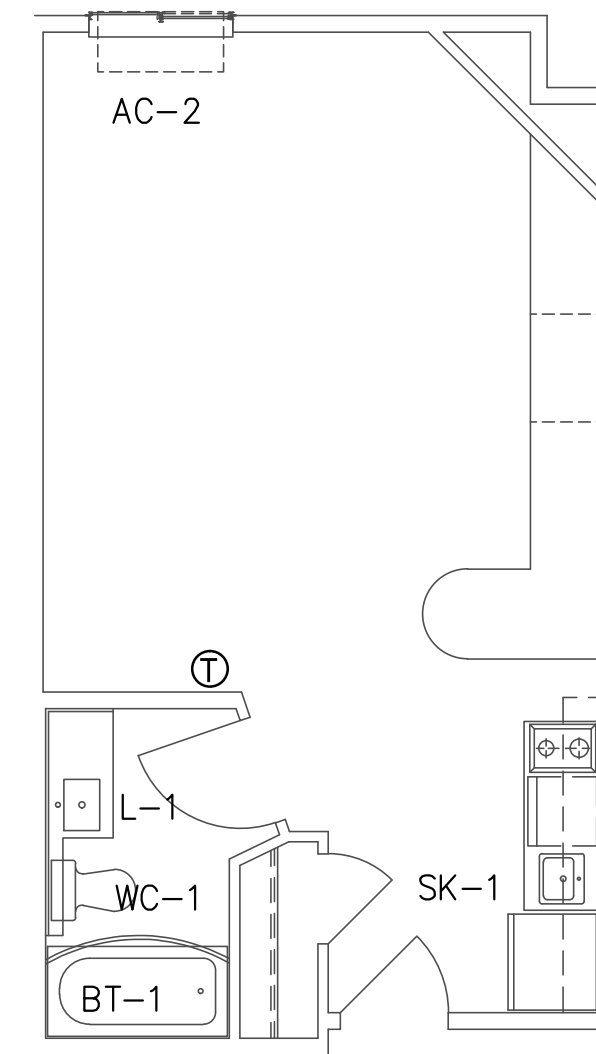
'C' S.K. SUITE



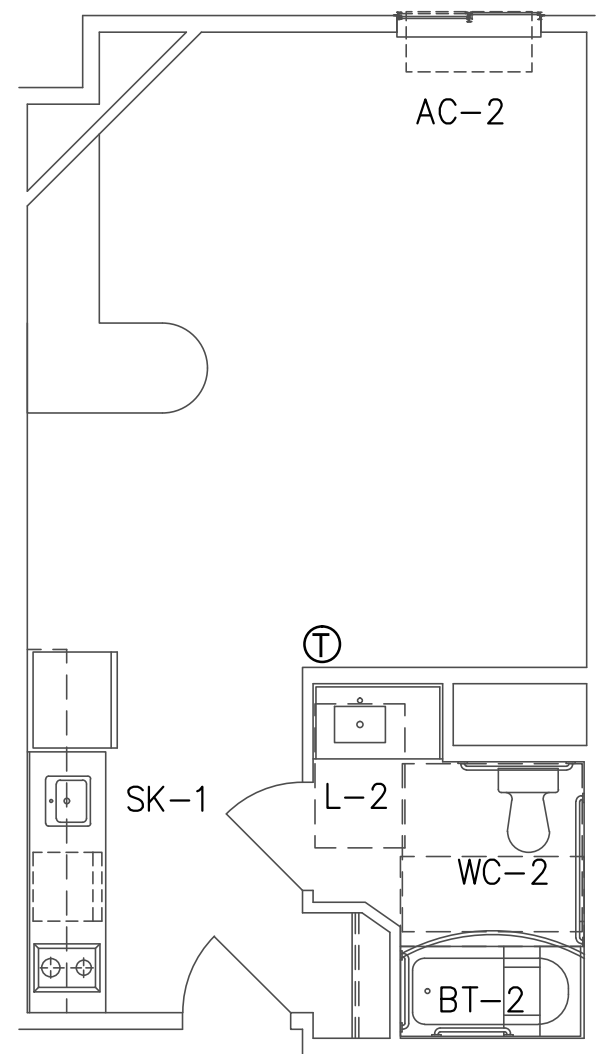
'C1' ACC. S.K. SUITE ADJ



'C2' S.K. SUITE ADJ



'D' D.Q. STUDIO



'D1' ACCESS. D.Q. STUDIO

SHEET NAME:

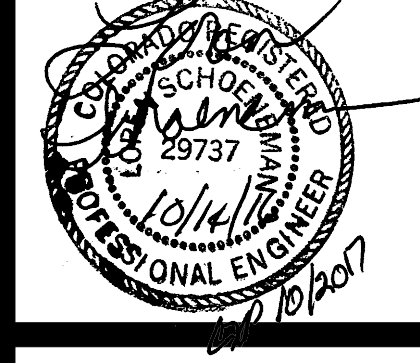
**UNIT PLANS
PUEBLO, CO.**

PROJECT NO.
PE1621
DRAWN BY:
CH/SG/DD
CHECKED BY:

DATE:
10.27.2016

SHEET:

M5.0



SECTION 15050 - General

A. Work Included:

- Special interface requirements for the mechanical, plumbing and fire protection systems including all supervision, labor, material, equipment, machinery and any and all other items necessary to complete the systems.
- Mechanical contractor shall be responsible for obtaining all required permits and paying permit fees.
 - All materials furnished and all work installed shall comply with all National Fire Codes, with the requirements of local utility companies, and the requirements of all governmental agencies having jurisdiction.
- All electrical material and equipment shall bear the label of, and be listed by the Underwriters Laboratories, Incorporated. All gas-fired equipment shall bear the label of and be listed by AGA.
- All fire alarm and sprinkler requirements shall conform to NFPA and the local Fire Department requirements, whichever is the most stringent.
- All materials and apparatus required for the work shall be new of first-class quality, and shall be furnished, delivered, erected, connected and finished in every detail, and shall be so selected and arranged as to fit properly into the building spaces.
- All equipment and materials shall be in accordance with the recommendations of the manufacturer.
 - Motor Starters: Shall be furnished by the mechanical contractor and installed and wired by the electrical contractor. All individual starters furnished shall be of one manufacturer. Each starter and its component and related parts shall be properly designed and coordinated to suite the characteristics of the motor it controls and the driven equipment. Starters provided with automatic control shall be capable of making as frequent starts as the control devices may demand. The theoretical starting time of each starter shall be not less than the rating of the motor it controls. Starters shall be in accordance with NEMA standards. Each starter shall be equipped with TwinBreak Type contacts to break each ungrounded line to the motor.
 - Quiet Operation and Vibration: All equipment and/or systems shall operate under all conditions of load without any sound or vibration which is obtrusive in quality.
 - Accessibility: Locate all equipment which must be serviced, operated, or maintained in fully accessible positions. Doors for access to electric heating coils shall have disconnect switch to break circuits as door is opened. Furnish all access doors/panels in accordance with Division 5 for each concealed valve, control, damper, or other device requiring service.
 - Waterproofing: Flashing for all penetrations of waterproof walls, slabs and roof shall be installed under Division 7.
- Electrical Connections to Equipment and Systems: All equipment wiring shall be provided under Division 16 including all temperature control wiring.
- Connections to Equipment and Fixtures: Provide all rough-in, make run outs and connections of water, gas, waste, vent, drain, air and ductwork to all equipment furnished. Connections shall include necessary traps, shutoff valves, etc. Rough-in work done incorrectly shall be relocated if required as determined by the Owner's Representative and at no expense to the owner.
- Painting and Cleaning: Painting shall be provided under Division 9, except Division 15 shall paint as stated herein: Material (pipe, steel, etc.) installed in earth or below vapor barrier shall be given two coats of black asphaltum. Material embedded in concrete need not be painted. Pipes protruding through concrete floors shall be bituminous coated at the point of breach.
- Operating Instructions: a) Upon completion of all work and all tests, furnish the necessary instructions in the operation, adjustment, and maintenance of all equipment installed. Provide a minimum of forty-eight hours notice to the Owner's Representative in advance of this task. a) Furnish four complete bound sets of the Owner's Representative of typewritten or blueprint instructions for the operation and maintaining all systems and equipment installed. All instructions shall be submitted in bound sets, prior to operation instruction described in 'A' for approval. Manufacturer's advertising literature or catalogs will not be acceptable for operating and maintenance instructions. The four bound sets shall include the following:
 - Maintenance Manuals and Instructions for operating and servicing all mechanical and electrical equipment and systems.
 - Characteristic curves of all equipment.
 - Date on all the mechanical and electrical equipment to include Item, Make, Model, Capacity, Electrical characteristics, and Maintenance Schedule.
- The name, address and phone number of each equipment supplier.

SECTION 15100 - VALVES

A. COMPONENTS

- Ball Valves: Bronze body and bonnet, two-piece construction, chrome-plated ball, standard port for 1/2-inch NPS (DN15) and smaller and conventional port for valves 3/4-inch NPS (DN20) and larger.
 - Swing Type, 2-1/2 inch NPS (DN65) and Smaller: Bronze body, Class 125 or 150, horizontal swing, with threaded or soldered connections.

SECTION 15145 - HANGERS AND SUPPORTS

A. COMPONENTS

- Hangers, Supports, and Components: Factory fabricated according to MSS SP-88.
- Thermal-Hanging Shear Pins: Waterproofed calcium silicate around entire circumference of pipes, encased with sheet-metal shield.
- Powder-Actuated Drive-Pin Fasteners: Pull-out strength and capacities appropriate for supported loads.
- Mechanical-Anchor Fasteners:
 - Heavy-duty steel trapezes.
 - Rods shall be screwed into or extended through frame construction (with washer and nut). Supports shall secure equipment in place, and shall prevent pipe vibration, maintain required grading by proper adjustment, provide for expansion and contraction and shall make neat appearance. Strap hangers or chains are not permitted.
- Hanger Spacing: Hangers shall be spaced on the following maximum centers, and not more than one foot on each side of every change in direction of piping.
 - Steel and copper: 3/4" diameter and smaller = 6 ft.
 - Steel and copper: 1" diameter = 8 ft.
 - Steel and copper: 1-1/4" diameter and larger = 10 ft.
- Provision for Hangering: Hangers shall be provided to distribute the load among two or more structural members when required or directed.
- Fire Sprinkler heads shall be the following minimum sizes:
 - 1/4" to 2" pipe = 3/8"
 - 2-1/2" to 3" pipe = 1/2"
 - 4" pipe = 5/8"

SECTION 15200 - PIPE INSULATION

A. QUALITY ASSURANCE

- Fire Performance Characteristics: Flame spread of 25; smoke developed of 50, according to ASTM E 84.
- Mockup of each type of pipe insulation.

B. MATERIALS

- Glass Fiber: Preformed: ASTM C 547, Class 1, rigid, jacketed and vapor-barrier coated.
- Flexible Elastomeric Cellular: Tubular, expanded, closed cell.
- Insulating Cements:
 - Mineral fiber.
 - Expanded or exfoliated vermiculite.
 - Mineral fiber, hydraulic-setting insulating cement.
 - Jacket: Polymer film.

C. APPLICATIONS

- Exposed Interior Piping Systems:
 - Domestic cold water.
 - Storm water (only roof drain bodies and horizontal rainwater leaders of storm water piping).
- Exposed Exterior Piping Systems:
 - Refrigerant suction.
- Concealed Interior Piping Systems:
 - Domestic cold water.
 - Storm water (only roof drain bodies and horizontal rainwater leaders of storm water piping).
 - Domestic hot water.
 - Recirculated hot water.
 - Refrigerant suction.
- Concealed Exterior Piping Systems:
 - Refrigerant suction.

SECTION 15290 - DUCT INSULATION

A. QUALITY ASSURANCE

- Fire Performance Characteristics: Flame spread of 25; smoke developed of 50, according to ASTM E 84.

B. MATERIALS

- Glass Fiber: All-purpose jacket; and vapor-barrier coated.
 - Board: ASTM C 612, Type 2.
 - Blanket: ASTM C 562, Type II, Class F-1.
 - Adhesive: UL classification nonflammable.
- Flexible Elastomeric Cellular: ASTM C 534, Type II.
- Insulating Cements:
 - Mineral fiber.
 - Expanded or exfoliated vermiculite.
 - Mineral fiber, hydraulic-setting insulating and finishing cement.
- Adhesives: ML-4-3316C, Classes 1 and 2, Grade A.
- Jackets: Polymer film.

C. APPLICATIONS

- Duct Systems:
 - Interior concealed supply, return, and outside air ductwork.
 - Interior exposed supply, return, and outside air ductwork.
 - Interior exposed and concealed supply fans, air handling unit casings and outside air plenums.
- Items Not Insulated:
 - Fibrous glass ducts.
 - Metal ducts with duct liner.
 - Factory-insulated flexible ducts.
 - Factory-insulated thermocouples, casings, terminal boxes, and filter boxes and sections.
 - Flexible connectors.
 - Vibration control devices.
- Testing laboratory labels and stamps.
 - Nameplates and data plates.
 - Access panels and doors in air distribution systems.

SECTION 15300 - WET-PIPE SPRINKLER SYSTEMS

A. SUMMARY

- Automatic sprinklers attached to piping system containing water and connected to water supply so that water discharges immediately from sprinklers when they are opened by fire.
- Sprinkler System Protection Limits: All spaces including closets, toilet and locker room areas, each landing of each stair, and special applications areas.
- The fire protection contractor shall be responsible for all Code Research, Design, Coordination, and Installation of a complete and functional hydraulically calculated sprinkler system (and standpipe system if required) that meets the requirements of and is in accordance with all applicable regulations and requirements of the following as further specified within:
 - The current editions of NFPA pamphlet #13, #13A, #14, and #20.
 - Factory Mutual.
 - Other applicable Codes.
 - Local Codes and Requirements.
 - Authorities having jurisdiction.
 - These specifications.
- The building shall be provided throughout with a complete, approved, operational sprinkler system with flow switches and tamper switches zoned by floor.
- Any design documents issued to the contractor are for information only. The contractor shall be responsible for the actual layouts, routing of piping, and additional sprinkler heads to meet all requirements.
- Alarm system devices including alarm valves, flow switches, pressure switches, tamper valves and coordination with Fire Alarm System Contractor.
- Access panels for service and access to valves in enclosed ceiling and walls. Provide placards to indicate valves and zones.

SECTION 15430 - PLUMBING SPECIALTIES

A. PRODUCTS

- Backflow Preventers: ASSE standard.
 - Pipe-applied, atmospheric-type vacuum breakers.
 - Hose-connection vacuum breakers.
 - Intermediate atmospheric-vent backflow preventers.
 - Reduced-pressure-principle backflow preventers.
 - Double-check backflow prevention assemblies.
 - Double-check detector assembly backflow preventers.
- Dishwasher air-gap fittings, deck mounted.
- Water Filters:
 - Wall-mounted type with plastic housing and activated-charcoal fiber filter media cartridge.
 - Clothes washer.
 - Quinex Boxes.
- Hydrants: Wall.
 - Trap seal primer valves.
- Miscellaneous Piping Specialties:
 - Water hammer arresters.
 - Leak test.
 - Flow-drain inlet fittings.
 - Vent terminals.
 - Expansion joints.
 - Downspout nozzles.

SECTION 15440 - PLUMBING FIXTURES

A. SUMMARY

- Plumbing fixtures, trim, fittings, accessories, appliances, appearances, equipment, and supports indicated on Plumbing fixture schedule.
- Plumber shall set and install owner supplied plumbing fixtures (Tubs etc. verify with G.C.)

SECTION 15453 - WATER DISTRIBUTION PUMPS

A. SUMMARY

- In-line circulators, in-line pumps, and end-suction pumps for water distribution.

B. PRODUCTS

- Compact, In-Line Circulator:
 - Cast-bronze casing.
 - Impeller: Overhung, single suction, nonmetallic.
 - Stainless-steel shaft and carbon-steel sleeves.
 - Single-speed motor.

SECTION 15457 - WATER SOFTENERS

A. SUMMARY

- Water softener equipment and accessories shall be owner furnished.

SECTION 15462 - FUEL-FIRED WATER HEATERS

A. SUMMARY

- Gas water heaters.
 - Standards for Performance Efficiency: ASHRAE 90.1 and ASHRAE 90.2.
- WARRANTY
 - Materials and Workmanship: Five years.
- PRODUCTS
 - Commercial, High-Efficiency, Gas Water Heaters:
 - Description: Sealed-combustion-chamber condensing configuration, with normal efficiency rating of not less than 93 percent.
 - Construction: ASME-labeled, 160-psig (1100-kPa) working pressure.
 - Burner: For natural gas.
 - Manual gas shutoff valve.
 - Pressure Regulator: Factory or field installed.
 - Automatic ignition.
 - Automatic damper.
 - ASME-labeled combination pressure and temperature relief valve.
 - Vacuum relief valve.
 - Consumption Tanks:
 - Steel, pressure-rated, with welded joints and with factory-installed, butyl-rubber diaphragm and air precharge.

SECTION 15496 - FURNACES

A. SUMMARY

- Furnaces and accessories with direct-expansion cooling coils.
 - Configuration: Upflow Downflow.
- WARRANTY
 - Furnaces: Five years.
- PRODUCTS
 - Electric Furnaces:
 - Standard: NFPA 70.
 - Heaters: Helix-wound, nickel-chromium wire, supported by porcelain insulators.
- Heater Control: Sequencer relay for each element to switch elements on/off with a delay between each element; and initiates, stops, or changes fan speed.
- Thermostats: 24-V ac, solid-state programmable
- Air Filters and Cleaners:
 - Filters: 1-inch (25-mm) thick, disposable fiberglass.
 - Air Cleaners: [High-efficiency, disposable filter] [Electronic packaged system]
- Humidifiers: [Steam] [Media-wheel bypass] [Pumped, fan-powered, wetted-pad] [Fan-powered, wetted-pad, continuous-drain] [Wetted-pad, continuous-drain, bypass] type.
- Cooling Features:
 - Evaporator Coil: ARI 210/240; match size of furnace.
 - Evaporator coil enclosure.
 - Refrigerant line kits.

SECTION 15610 - CONDENSING UNITS

A. SUMMARY

- Factory-assembled and -tested, air-cooled condensing units for use in air-conditioning systems.
- WARRANTY
 - Materials and Workmanship: Five years.
- PRODUCTS
 - Air-Cooled Units, 1 to 5 Tons (3.5 to 17.6 kW):
 - Compressor: Hermetically sealed and isolated with single-speed motor.
 - Condenser: Copper-tube, aluminum-fin coil with liquid subcooler.
 - Accumulator: Direct-drive, propeller.
 - Accessories: Low-voltage thermostats and subbase, precharged and insulated refrigerant tubing, low-ambient kit, crankcase heater, automatic reset timer, and P/E mounting base.
 - Casing: Steel.

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ELECTRICAL LEGEND	
GENERAL ELECTRICAL SYMBOLS	
	LIGHTING SWITCH, S.P.S.T. +48" AFF
	Ⓜ DIMMER SWITCH
	Ⓚ KEYSwitch, ALL SHALL BE ROTARY, KEYS ALIKE AND PROVIDE "ON-OFF-AUTOMATIC" CONTROL FOR OCCUPANCY SENSOR OVERRIDE.
	Ⓟ PILOT SWITCH
	Ⓜ MS MANUAL MOTOR STARTER, PADLOCKABLE
	Ⓜ MOTOR RATED SWITCH
	Ⓜ PC PULL CORD SWITCH
	Ⓜ MOTOR OUTLET
	Ⓜ EXHAUST FAN
	Ⓜ LIMIT SWITCH
	Ⓜ NATURAL GAS DETECTOR
	Ⓜ PUSH BUTTON
	Ⓜ TELEVISION OUTLET, BOTH CAT 6 AND RG6 CABLES AND CONNECTORS, U.O.N.
	Ⓜ TIME CLOCK
	Ⓜ AQUASTAT
	Ⓜ HUMIDISTAT
	Ⓜ CHIME W/ STROBE
	Ⓜ CHIME W/TRANSFORMER
	Ⓜ CARD READER
	Ⓜ POWER SUPPLY
	Ⓜ CLOCK OUTLET
	Ⓜ KEY PAD
	Ⓜ DOOR CHIME W/TRANSFORMER
	Ⓜ PUSH BUTTON
	Ⓜ SINGLE RECEPTACLE, 20A, 20BY 3-WIRE, WALL MT +18" AFF MT AS REQUIRED FOR HVAC UNITS W/SUBBASE CONNECTION.
	Ⓜ FLUSH FLOOR MOUNT RECEPTACLE, NEMA 5-20R, BRASS FLIP COVER, TRIM FOR COVERING
	Ⓜ NON FUSED SAFETY DISCONNECT SWITCH 30A 3P UON
	Ⓜ FUSED SAFETY DISCONNECT SWITCH, SIZE & NUMBER OF POLES AS NOTED, 30/20A, 30A-SWITCH, 20A-FUSE SIZE
	Ⓜ MOTOR STARTER, COMBINATION WITH MOTOR CIRCUIT PROTECTORS, 30A 3P UON
	Ⓜ CIRCUIT BREAKER DISCONNECT SWITCH RATED AS REQUIRED FOR THE ELEVATOR PROVIDED, 100A OR 200A WITH SHUNT TRIP IN NEMA 4 ENCLOSURE.
	Ⓜ MOTOR STARTER MAGNETIC, OR LIGHTING CONTACTOR.
	Ⓜ TRANSFORMER, DRY TYPE, SIZE AND RATING AS NOTED OR SCHEDULED
	Ⓜ CIRCUIT BREAKER PANEL BOARD, SURFACE MT, 600V MAX. (LOAD CENTERS ARE PANEL BOARDS)
	Ⓜ CIRCUIT BREAKER PANEL BOARD, FLUSH MOUNT, 600V MAX. (LOAD CENTERS ARE PANEL BOARDS)
	Ⓜ CONTROL PANEL
	Ⓜ DISTRIBUTION PANELBOARD SURFACE MOUNTED, 600V MAX.
	Ⓜ SPECIAL EQUIPMENT CABINET AS NOTED
	Ⓜ RACEWAY AND WIRING, CONCEALED IN WALL OR ABOVE CEILING EXCEPT IN UNFINISHED AREA
	Ⓜ END OF LINE RESISTOR
	Ⓜ UNDER FLOOR OR UNDER GROUND
	Ⓜ HOME RUN TO PANEL BOARD, CROSS MARKS INDICATE THE QUANTITY OF #12 AWG THIN CU CONDUCTORS, UNLESS WIRE SIZE IS NOTED, NO MARKS INDICATE (2) #12 AWG THIN/THIN IN 1/2 CONDUIT WHERE CONDUIT IS REQUIRED. ARROWHEAD INDICATES HOME RUN OF CIRCUIT(S), SOMETIMES VIA CONTROL DEVICES. LETTER(S) INDICATE THE PANEL AND NUMBERS INDICATE CIRCUIT BREAKER NUMBERS IN THE PANEL.
	Ⓜ MEASUREMENTS A.F.F. ARE TO TOP OF DEVICE, BOX, OR TOP OF LIGHT.
	Ⓜ SWITCHES, RECEPTACLES, AND COVER PLATES ARE NOTED. COORDINATE WITH OWNER.

ELECTRICAL ABBREVIATIONS	
A	AMPERS
ABC	ABOVE COUNTER ABOVE FINISHED FLOOR
AIC	AMPERS INTERRUPTING CAPACITY (MIN)
APPROX	APPROX
AWG	AMERICAN WIRE GAUGE
ANNUNCIATOR	ANNUNCIATOR AUTHORITY HAVING JURISDICTION
BC	BELOW COUNTER BUILDING
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCCT	CIRCUIT CONTINUATION
CM, C.M.	CONSTRUCTION MANAGER
DIA	DIAMETER
DM	DIMENSION
DH	DOOR HOLDER
DOWN	DOWN
DP	DISTRIBUTION PANEL DRAWING
EA	EACH
EC, E.C.	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
END	END OF LINE RESISTOR
EOL	ELECTRICAL METALLIC TUBING EXISTING TO REMAIN EQUIPMENT
ETR	EQUIPMENT
F	FUSED
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FASC	FIRE ALARM SYSTEM CONTRACTOR
FAS	FIRE ALARM SYSTEM CONTRACTOR
FBO	FURNISHED BY OTHERS
FBI	FURNISHED BY OTHERS
FLUOR	FLUORESCENT
GF, GF/CI	GROUND FAULT CIRCUIT INTERRUPTER OR PROTECTED BY GROUND FAULT CIRCUIT INTERRUPTER
GM, G.M.	GENERAL MANAGER
GND	GROUND
HD	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HV	HEARING/VISUALLY IMPAIRED
IC	ISOLATED GROUND INCANDESCENT
INCAN	JUNCTION
KMIL	THOUSAND CIRCULAR MILS
KVA	KILO-VOLT-AMPERE
KILOWATT	KILOWATT
LV	LOW VOLTAGE
LVC	LOW VOLTAGE CONTRACTOR
MATV	MASTER ANTENNA TELEVISION
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MPC	MINI POWER CENTER MOUNT (ED),(ING)
MTC	MOUNTING
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NON-FUSED	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT (ENERGIZED 24/7)
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P	POLE
PH	PHASE
PMS	PROPERTY MANAGEMENT SYSTEM
PANEL	PANEL
FURNISH AND INSTALL	FURNISH AND INSTALL
PS	POWER SUPPLY
PCB	POLYCHLORINATED BIPHENYLENE
RSCC	RIGID GALVANIZED STEEL CONDUIT
RSC	RIGID STEEL CONDUIT
RSCT	RAIN TIGHT
SM	SMALL
SS, S/S	STAINLESS STEEL
TEL, T	TELEPHONE
TL	TWIST LOCK
TRMR	TRANSFORMER
TYP	TYPICAL
UL	UNDERWRITER LABORATORIES
V	VOLT
WP/WPI	WEATHERPROOF/WEATHERPROOF WITH GFI

© LUMINAIRE SCHEDULE											
LETTER DESG.	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMPS		MOUNTING	FINISH TRIM	TOTAL WATTS	REMARKS	LOCATION	
				NO.	TYPE						
A	TRINITY LIGHTING	10 5	120	2	FP14/835	WALL	BRUSHED NICKEL	34	VANITY SCONCE CP-403	PUBLIC AREA BATHROOM	
B	TRINITY LIGHTING	10 5 7	120	1	F032/835	WALL, ABOVE MIRROR	POLISHED CHROME	32	VANITY SCONCE CG-400	GUEST ROOM BATHROOM	
B2	TRINITY LIGHTING	10 5 7	120	1	F136L/835	WALL, ABOVE MIRROR	POLISHED CHROME	36	VANITY SCONCE CG-410	ADA GUEST ROOM BATHROOM	
C	TRINITY LIGHTING	10 5 7 6 4	120	1	TOP 32040-3100K	CEILING	BRUSHED NICKEL	40	CEILING MOUNT CG-402	GUESTROOM KITCHEN	
CS	TRINITY LIGHTING	10 5 7 6 4	120	2	VERIFY W/ FRANCHISE	CEILING	VERIFY	?	SEE ARCHITECTURAL DETAIL	CORRIDOR	
D	TRINITY LIGHTING	10 5 7	120	1	CP-404	QUESTRM. CORRIDOR WALL	VERIFY	?	SEE ARCHITECTURAL DETAIL	CORRIDOR	
E	TRINITY LIGHTING	10 5 7	120	1	LED 18A21	WALL	BRUSHED NICKEL	18	SINGLE ARM SCONCE CG-407	GUESTROOM WALL AT DESK	
E	TRINITY LIGHTING	10 5 7 6 4	120	1	CP-400	VERIFY W/ FRANCHISE	VERIFY	21	SEE ARCHITECTURAL DETAIL	LOBBY	
E	TRINITY LIGHTING	10 5 7 6 4	120	1	CP-400	VERIFY W/ FRANCHISE	RECESSED IN SUSPENDED	VERIFY	21	SEE ARCHITECTURAL DETAIL	COMMUNITY ROOM, GUEST LAUNDRY
ES	PACIFIC COAST	89-5217-26EE	120	2	20W MR16	WALL	TITANIUM	40	WALL SCONCE EXT-410	EXTERIOR AT ENTRY	
F	LITHONIA	Z5P-4-32-FW-A12125-MULTIVOLT-1/4-GEBOIRS 13	120	4	F032/835	RECESSED	WHITE	112		OFFICES	
G	MILLER	ML-19875	120	1	100A19	OUTLET BOX	STANDARD	100	PROVIDE IN ATTIC SPACE WHEN ILLUMINATION OF ATTIC IS REQUIRED.	ATTIC	
H	TRINITY LIGHTING	10 5 7 6 4	120	1	TOP 32040-3100K	CEILING	BRUSHED NICKEL	40	CEILING MOUNT CG-401	GUEST ROOM BATHROOM	
J	JKNOWN	10 5	120	2	CF26	FLOOR LAMP	?	567	?	GUEST ROOM FLOOR	
K	TRINITY LIGHTING	10 5	120	2	TOP 32040-3100K	CEILING	BRUSHED NICKEL	40	CEILING MOUNT CP-400	LOBBY, CORRIDOR, ENTRY VESTIBULE	
L	COOPER LIGHTING	ME1-WSC232WUNVEB81U	120	2	F032/835	SURFACE	WHITE	60	8	STAIRS	
LP2	TRINITY LIGHTING	10 5	120	2	CF26W/G24q	LOBBY PENDANT		52		LOBBY CENTER	
N	COOPER LIGHTING	ME1-WN232AUNVEB81U	120	2	F032/835	CEILING	WHITE	60		OFFICES, FITNESS, GUEST LAUNDRY	
P	COOPER LIGHTING	ME1-SF132UNVEB81U	120	1	F032/835	CEILING/VALANCE	SILVER	35	SEE ARCH. FOR VALANCE MTG.	BACK OF HOUSE	
P1	COOPER LIGHTING	ME1-SF125UNVEB81U	120	1	F025/835	CEILING/VALANCE	WHITE	30	SEE ARCH. FOR VAL. MTG. CLOSET	CLOSET BY OFFICE	
P2	COOPER LIGHTING	ME1-SF232UNVEB81U	120	2	F032/835	CEILING	WHITE	60		BACK OF HOUSE	
Q	COOPER LIGHTING	ME1-OFCL21315E120VSWJ	120	2	F13T5/CW	UNDERCABINET	WHITE	30		UNDERCABINET IN OFFICES	
R	TRINITY LIGHTING	SAT-CH25811A40552 10	120	2	CF26DD/E/835	CEILING	BRUSHED SILVER	60	I.C. RATED	GUEST ROOM/OVER P-TOP TABLE	
R1	TRINITY LIGHTING	10 5 7 6 4	120	1	LED 12 (12A197)	CEILING	BRUSHED SILVER	12	2'-0" EXTENSION ROD	GUEST RM/OVER PENNSULA/DRESSING	
S	ELITE LIGHTING	HAL-LR304P	120	1	50R20	TRACK	WHITE	50	1	CUBBOARD LMIT 4' & 120 WATTS	
U	E-CONLIGHT	ECO-EMT4101G	120	1	150A21	WALL	STANDARD	150		ELEVATOR PIT	
W	QSSI LIGHTING	QSS-WN30M70QL	120	1	M70/J/MED	SURFACE	BRONZE	85		GAZEBO	
Z	HUBBELL	NRG-315	120	1	M50/C/U/MED	WALL ABOVE DOOR	DARK BRONZE	75		AUXILIARY DOORS	
A2	TABLE LAMP	10 5 ?	120	2	CF26	TABLE	?	56	GUEST ROOM TABLE/BEDSIDE	FLAG POLE	
DL	COOPER LIGHTING	PDS-PD6	120	1	32W CFL - 2700K	EXT SOFFIT AT ENTRY	STANDARD	32		ENTRY/JUNDER CANOPY	
EA	COOPER LIGHTING	SUR-CC5070RHW	120/6	2	9W-MR16 W/UNIT	WALL - 6" BELOW CLG.	WHITE	16			
EB	COOPER LIGHTING	SUR-UEL1WHSD	120/12	2	12W-MR16 W/UNIT	WALL 6" ABOVE DOOR	WHITE	11	EXTERIOR		
XA	COOPER LIGHTING	SUR-CX61RW	120	-	W/UNIT	CEILING	WHITE W/RED LTRS.	5	FACES AND ARROWS AS REQUIRED		
XB	COOPER LIGHTING	SUR-CX62RW	120	-	W/UNIT	CEILING	WHITE W/RED LTRS.	5	FACES AND ARROWS AS REQUIRED		
XC	COOPER LIGHTING	SUR-PHL 1 R	-	-	-	WALL	WHITE W/RED LTRS.	-	FACES AND ARROWS AS REQUIRED		
XD	COOPER LIGHTING	SUR-CX62RW	120	-	W/UNIT	CEILING	WHITE W/RED LTRS.	5	FACES AND ARROWS AS REQUIRED		

- PROVIDE 4'-0" TRACK No.LZR204P WITH POWER FEED & CANOPY No.LZR200P. INSTALL PER MFR. RECOMMENDATIONS.
- EXIT LIGHT TYPE 'XC' WHEN REQUIRED BY LOCAL CODE MUST BE LOCATED IN ACCORDANCE WITH NFPA 101, SECTION 5-10.1.5, NEAR FLOOR LEVEL. UNIT IS PHOTOLUMINESCENT
- THIS LUMINAIRE SCHEDULE WAS MODIFIED FROM THE PROTOTYPE DRAWINGS TO MEET THE CHANGES OF THE ihgdesignconnect.com LUMINAIRE SCHEDULE DATED 9.13.2013.
- POLE 30' ROUND TAPERED STEEL POLE FACTORY PAINTED DARK BRONZE, HUBBELL No.RTS-8306-M51 WITH RSD-04-1 DARK BRONZE ADAPTORS.
- LUMINAIRE IS OWNER FURNISHED, CONTRACTOR INSTALLED. LIGHTBULBS ARE PROVIDED BY THE CONTRACTOR. FIELD VERIFY ALL QUANTITIES, WATTAGES AND TYPES WITH LUMINAIRES DELIVERED TO THE SITE.
- ENSURE EMERGENCY LIGHTING INSTALLED PER CODE FOR ALL PUBLIC AREAS AND EMPLOYEES WORK AREAS INCLUDING THE LOBBY REGISTRATION WORK AREA, PUBLIC RESTROOMS, FITNESS ROOM, GUEST LAUNDRY, CORRIDORS, STAIRWELLS, ELEVATORS, HOUSEKEEPING AREA, MAINTENANCE SHOP, STORAGE ROOMS OVER 150 SQ. FEET AND OFFICES. IT IS RECOMMENDED BY THE FRANCHISE FOR THE OWNER TO PROVIDE ENERGY STAR RATED LED EMERGENCY LUMINAIRES IN LIEU OF THE FRANCHISE STANDARD.
- ADA ACCESSIBLE GUEST SUITES REQUIRE AN ADA ACCEPTABLE SWITCH.
- WITH METALUX EMERGENCY BATTERY PACK CATALOG No. FBP140X TO BE FIELD INSTALLED BY CONTRACTOR.
- ALL FIXTURES SHALL BE VERIFIED ON www.ihgdesignconnect.com.
- ALL SRD PACKAGE DECORATIVE FIXTURES SHALL BE VERIFIED ON www.ihgdesignconnect.com (FIXTURES ARE SUBJECT TO BE RESELECTED, DISCONTINUED, ETC. ONLY LUMINAIRES THAT ARE NOT MANDATED BY IHG BRAND DESIGN SPECIFICATIONS MUST BE SUBMITTED WITH CUT SHEETS AND MANUFACTURER'S SPECIFICATIONS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- THE FRANCHISE RECOMMENDS THE OWNER PROVIDE COMPACT FLUORESCENT LIGHT BULBS IN LIEU OF THE INCANDESCENT LIGHTING. WHEN USING FLUORESCENT LIGHTING IT IS IMPORTANT TO CONSIDER THE COLOR TEMPERATURE IN RELATION TO THE APPLICATION AND BRAND STANDARD.
- INDICATES "MASTER SWITCH" REQUIRED BY IECC 2009 EDITION, BUT NOT REQUIRED DUE TO EXCEPTION OF SECTION 505.1 DUE TO THE HIGH PERCENTAGE OF THE PERMANENTLY INSTALLED INTERIOR LIGHTING FIXTURES WHICH ARE FITTED WITH HIGH-EFFICACY LAMPS
- LUMINAIRE ADDED TO SCHEDULE AND NOT ORIGINAL WITH FRANCHISE PROTOTYPE.
- ALL RECESSED LUMINAIRES IN HARD CEILING SHALL HAVE ONE HOUR FIRE RATING. THIS NOTE APPLIES TO ALL RECESSED LUMINAIRES, NOT JUST LUMINAIRES TYPE C, E AND H. RECESSED LUMINAIRES SHALL BE FURNISHED WITH 1 HOUR RATED ENCLOSURES OR SHALL BE INSTALLED IN THE RATED ENCLOSURE SHOWN IN DETAIL ON DRAWING A6.1.
- PARKING LOT AND EXTERIOR AREA LIGHTING ARE SHOWN ON DRAWING E6.1 AND ARE NOT LISTED ON THIS SCHEDULE. REFER TO E6.1 FOR EXTERIOR AREA LUMINAIRE SCHEDULE.

REFER TO WEB SITE:
www.ihgdesignconnect.com FOR MANUFACTURER AND MODEL NUMBER FOR LIGHT FIXTURES.

REFER TO E6.1 FOR EXTERIOR LUMINAIRE SCHEDULE

GENERAL NOTES & SPECIFICATIONS FOR LUMINAIRES:

ALL LUMINAIRE ALTERNATE BRANDS ARE SUBJECT TO IHG APPROVAL. FIXTURE BRANDS NOT LISTED ARE SUBJECT TO APPROVAL PRIOR TO BID. LAMPS BY GE AND PHILLIPS ARE ACCEPTABLE.

FIXTURES WITH EMERGENCY BACKUP SHALL BE ABLE TO BE LOCALLY CONTROLLED WHEN NORMAL POWER IS AVAILABLE; UPON LOSS OF NORMAL POWER, THE FIXTURE SHALL AUTOMATICALLY LIGHT; EMERGENCY BATTERY BACKUP BALLASTS SHALL BE FACTORY INSTALLED. 1200 LUMEN MINIMUM OUTPUT FOR LINEAR FLUORESCENT LAMPS, 700 LUMEN MINIMUM FOR COMPACT FLUORESCENT LAMPS.

LAMPS SHALL BE PROVIDED AS INDICATED AND BE IN COMPLIANCE WITH ENERGY CODES & ORDINANCES. SPARES SHALL BE PROVIDED FOR EACH LAMP TYPE, 5% MINIMUM BUT NOT LESS THAN.

FIXTURE SUBMITTALS SHALL INCLUDE LAMP INFORMATION COMPLETE ENOUGH TO VERIFY LAMPS RECOMMENDED BY THE MANUFACTURER FOR EACH FIXTURE TYPE SPECIFIED. GENERIC TERMS FOR LAMP TYPES IS NOT ACCEPTABLE. PROVIDE SPECIFIC ANSI OR LAMP MANUFACTURER CATALOG NUMBERS.

HID BALLASTS SHALL BE HIGH POWER FACTOR. FLUORESCENT BALLASTS SHALL BE HIGH-FREQUENCY, ELECTRONIC, 0.8 BALLAST FACTOR MINIMUM UNLESS OTHERWISE NOTED.

EXIT SIGNS ABOVE DOORS SHALL BE CENTERED ON THE DOORWAY OPENING. EXIT SIGNS SHALL BE MOUNTED NOT LOWER THAN 7'6" AFF TO BOTTOM OF FIXTURE UNLESS OTHERWISE NOTED.

ALL AMBIABLE FIXTURES SUCH AS TRACK HEADS AND WALL WASH FIXTURES SHALL BE AIMED AS DIRECTED BY THE OWNER.

WHEN DUAL-LEVEL SWITCHING IS INDICATED FOR 3 OR 4 LAMP FIXTURES, OUTBOARD AND INBOARD LAMPS SHALL BE WIRED TO PERMIT SEPARATE CONTROL OF EACH SET OF LAMPS, RESPECTIVELY.

ELECTRICAL CONTRACTOR SHALL RECEIVE, INSPECT, ACCEPT, STORE, AND INSTALL ALL LUMINAIRES PROVIDED BY THE OWNER. THE EC SHALL BE RESPONSIBLE FOR CONDITION OF THE LUMINAIRES AFTER INSPECTION AND ACCEPTANCE.

IT IS REQUIRED THAT A COLOR TEMPERATURE OF 3000 KELVIN BE USED IN ALL GUEST SUITE BULBS. WITH THE EXCEPTION OF CERTAIN SPECIALTY FIXTURES SUCH AS MICROWAVE OVENS OR WHERE COMPACT FLUORESCENT BULBS ARE NOT FEASIBLE, NO INCANDESCENT LIGHT BULBS MAY BE USED IN GUEST SUITES.

ALL BULBS MUST OPERATE AT LIKE-NORMAL CONDITION; COMPACT FLUORESCENT BULBS MUST NOT EMIT A NOISE, INTERFERE WITH THE TELEVISION OR FLICKER.

LIGHTING MUST PROVIDE SUFFICIENT ILLUMINATION FOR WORKING, READING, DRESSING, AND GROOMING IN ALL ROOMS OF THE GUEST SUITE.

ELECTRICAL CORDS MUST BE CONCEALED FROM VIEW WHERE POSSIBLE.

FLUORESCENT BULBS MUST BE 1500 LUMEN MINIMUM IN ALL LAMPS.

FOR STANDARDIZED ROOM DECOR/LIGHTING:
STEPHANIE STIDSEN 770-804-3443
EMAIL: stephanie.stidsen@ihg.com

LIGHT FIXTURE PROPOSAL — DUE PRIOR TO INSTALLATION: A PROPOSAL CONSISTING OF SPECIFICATIONS AND PHYSICAL APPEARANCE OF ALL LIGHT FIXTURES PROPOSED FOR THE ENTIRE DEVELOPMENT (INTERIOR AND EXTERIOR) MUST BE SUBMITTED TO IHG FOR REVIEW. LIGHT FIXTURES MUST BE APPROVED BY IHG PRIOR TO INSTALLATIONS.

IT IS THE RESPONSIBILITY OF THE COMPANY FURNISHING THE LUMINAIRE TO ENSURE THAT THE LUMINAIRES AS INSTALLED MEET THE FRANCHISE FOOT CANDLE REQUIREMENTS OF THE VARIOUS ROOMS.

MINIMUM FOOTCANDLES FOR GUEST ROOMS

DESK/TABLE/VANITY: 40 FOOTCANDLES AT WORK SURFACE LEVEL DIRECTLY BENEATH THE FIXTURE (AT VANITY TOP ADJACENT TO MIRROR)

BEDSIDE: 40 FOOTCANDLES AT THE BASE OF THE FIXTURE OF 30 FOOTCANDLES IN THE MIDDLE OF THE NEAREST BED PILLOW.

LEISURE CHAIR/SOFA: 15 FOOTCANDLES AT THE BASE OF THE FIXTURE OR 30 FOOTCANDLES ON THE OP OF THE ARM OF THE CHAIR/SOFA.

ENTRANCE: 3 FOOTCANDLES AMBIENT LIGHTING UNDER THE FIXTURE

DRESSER: 25 FOOTCANDLES ON THE TOP SURFACE.

LUMINAIRE LEGEND	
REFER TO LUMINAIRE SCHEDULE FOR MORE SPECIFIC INFORMATION. UPPER CASE LETTER INDICATES LIGHT FIXTURE TYPE. LOWER CASE LETTER INDICATES SWITCHING.	
NL - "NL" NEXT TO A LABELED LUMINAIRE INDICATES THAT IT IS UNSWITCHED AND ILLUMINATED 24/7	
	RECESSED
	SURFACE MOUNT
	WITH EMERGENCY BATTERY PACK
	WALL MOUNT
	FLUORESCENT STRIP
	WALL MOUNTED
	CEILING MOUNT
	RECESSED
	WALL WASHER
	NIGHT LIGHT
	EXIT SIGN W/BATTERY PACK, DIRECTIONAL ARROW AS INDICATED. UNIVERSAL MOUNT, OPTIONAL SECOND FACE
	EMERGENCY FIXTURE WITH BATTERY PACK
	EXIT FIXTURE WITH BATTERY PACK & (2) EMERGENCY LIGHTS. UNIVERSAL MOUNT WITH OPTIONAL SECOND FACE.
	SPOT LIGHT/FLOODLIGHT
	TRACK LIGHT
	EMERGENCY LIGHT, RECESSED FLUSH MOUNT WITH DROP DOWN LAMPS.

NOTE: DEVICE LOCATIONS MAY NOT YET BE DETERMINED DUE TO NEW CASEWORK. COORDINATE ALL DEVICE LOCATIONS AT OR NEAR CASEWORK WITH OWNER AND INTERNATIONAL HOSPITALITY GROUP (IHG). THIS APPLIES TO ALL DEVICES AT CASEWORK WHETHER DIMENSIONED ON DRAWINGS, SHOWN ON ELEVATIONS, OR INDICATED AS "XC" OR "DC".

THE ELECTRICAL CONTRACTOR SHALL BID FROM A FULL SET OF BIDDING DOCUMENTS. HE SHALL REVIEW ALL OF THE DRAWINGS FOR CONFLICTS AND LOAD

OWNER SPECIAL REQUIREMENTS

- ALL TRADES ARE RESPONSIBLE FOR THEIR OWN CLEAN-UP EACH DAY. IF THE OWNER PROVIDES CLEAN-UP AFTER THE CONTRACTOR HAS BEEN WARNED, THE OWNER RESERVES THE RIGHT TO CHARGE THE CONTRACTOR FOR SUCH SERVICE. PROPERLY DISPOSE OF ALL TRASH. THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR ALL RACEWAY AND CABLE CIRCUITRY, MISCELLANEOUS MATERIALS, AND EQUIPMENT FOR SYSTEMS RATED ABOVE 50 VOLTS. THE LOW VOLTAGE CONTRACTOR (LVC) SHALL BE RESPONSIBLE FOR ALL CIRCUITRY, MISCELLANEOUS MATERIALS, AND EQUIPMENT FOR SYSTEMS RATED 50 VOLTS OR LESS. EACH CONTRACTOR SHALL CLOSELY WORK WITH THE OWNER FOR OWNER PROVIDED EQUIPMENT. EACH CONTRACTOR SHALL RECEIVE, STORE AND INSTALL THE OWNER PROVIDED EQUIPMENT FOR THEIR OWN SYSTEMS. REFER TO TI.5
- AT EACH FLOOR CORRIDOR, ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTS. E.C. SHALL PROVIDE 150 AMP PANELS & POWER & LIGHT STRINGS. COORDINATE LOCATIONS W/GENERAL CONTRACTOR.
- E.C. TO CONFIRM WITH UTILITY WHO BRINGS POWER FROM TRANSFORMER.
- REFER TO SHEET TI.2 FOR OTHER SPECIFIC REQUIREMENTS FOR THE ELECTRICAL CONTRACTOR AND THE LOW VOLTAGE CONTRACTOR.
- PRIOR TO SHEETROCK BEING INSTALLED BOTH THE EC AND THE LVC SHALL EACH VERIFY THAT ALL OF HIS OUTLETS & DEVICES ARE INSTALLED IN THE CORRECT LOCATION AND AT PROPER HEIGHT & DEPTH AS NOTED ON THE PLANS (BOTH ARCHITECTURAL PLANS AND ELECTRICAL PLANS) OR REQUIRED BY THE OWNER. ALL THIS MUST BE CONFIRMED IN WRITING TO THE CONSTRUCTION MANAGER.
- ALL ELECTRICAL DEVICES ON FLOORS THAT RECEIVE GYPCRETE MUST BE RAISED AN ADDITIONAL 1" OFF OF SUB-FLOOR TO ACCOMMODATE 1" GYPCRETE.
- ANY RECESSED ITEM IN A FIRE RATED BARRIER SHALL HAVE A FIRE RATED ROUGH OPENING PRIOR TO INSTALLATION OF ITEM. FIRE STOPPING FOR ELECTRICAL OPENINGS SHALL BE BY EC OR THE LVC DEPENDING ON THE SYSTEM. EACH IS RESPONSIBLE FOR HIS OWN SYSTEM. IF THE OWNER REQUIRES THAT THE EC PROVIDE ROUGH-IN OPENINGS FOR THE LVC'S DEVICES, THE SEALING OF THE OPENING FOR BOTH SOUND AND/OR FIRE SHALL BE RESPONSIBILITY OF THE CONTRACTOR OF THE SYSTEM BEING INSTALLED.
- ALL RECESSED ITEMS SHALL HAVE A FIRE RATED OPENING. ELECTRICAL CONTRACTOR SHALL PRE-ROCK OPENINGS FOR HIS EQUIPMENT (INCLUDING LUMINAIRES AND DEVICES) TO MAINTAIN FIRE RATING. ANY ROUGH-IN OPENING BY THE EC SHALL BE PRE-ROCKED BY THE EC. ANY ROUGH-IN OPENING BY THE LVC SHALL BE PRE-ROCKED BY THE LVC.
- THE ELECTRICAL CONTRACTOR AND THE LOW VOLTAGE CONTRACTOR SHALL PROVIDE FIRE CAULKING AND PUTTY PACKS FOR HIS OWN FIREWALL PENETRATIONS. NO BACK TO BACK OUTLETS. SEE BID ALTERNATES BELOW.
- ALL ELECTRICAL OPENINGS IN EXTERIOR WALLS OF BUILDING SHALL BE FIRE-BLOCKED BY THE CONTRACTOR OF MAKING THE OPENING, EC OR LVC.
- ALL DATA CABLES SHALL BE CAT. 6 WITH RJ45 TERMINATIONS. TELEPHONE CABLES SHALL BE CAT. 5E WITH RJ45 TERMINATIONS. TV CABLES SHALL BE CAT. 6 WITH RJ45 TERMINATIONS AT ALL DEVICE LOCATIONS.
- THE FIRE ALARM SYSTEM CONTRACTOR, WHETHER EC OR LVC, SHALL PROVIDE WIRING, INCLUDING RELAY AND ADDRESSABLE MODULE IF REQUIRED, FOR DUCT SMOKE DETECTORS AND/OR CARBON MONOXIDE DETECTORS.
- THE EC SHALL PROVIDE TIME CLOCK SYSTEM FOR EXTERIOR LIGHTS & SIGNS. THE TIME CLOCKS SHALL BE HUBBELL CXT SERIES. THE EC SHALL VERIFY THE CORRECT CATALOG NUMBER FOR THE CIRCUITS REQUIRED. PROVIDE FOR A MINIMUM OF TWO PARKING LOT CIRCUITS, A MINIMUM OF TWO CIRCUITS FOR THE MONUMENT SIGNS, A MINIMUM OF TWO CIRCUITS FOR THE BUILDING SIGNS WITH THE BRANDED LIGHTS ENERGIZED AT THE SAME TIME AS THE BUILDING SIGNS, AND A MINIMUM OF THREE CIRCUITS FOR THE WALL WASH LIGHTS. THERE SHALL BE NO EXPOSED CONDUIT AT BUILDING EXTERIOR. EXTERIOR CONDUIT SHALL BE PROTECTED FROM DAMAGE BY LIGHTING SHALL UTILIZE HUBBELL CXT SERIES TIME CLOCKS FOR CONTROLLING THREE ZONES: (1) THE UNDERWATER LIGHTS, WHICH ARE REQUIRED TO BE ON FOR A MINIMUM OF DUSK TO DAWN, (2) THE SOFTIT LUMINAIRES, AND (3) THE ROOM LIGHTS.
- ALL IN-FLOOR OUTLETS SHALL BE METALLIC. NO PLASTIC ALLOWED. OUTLETS TO BE INSTALLED IN THE EXERCISE ROOM BY EACH EXERCISE ROOM BY EACH EXERCISE ROOM LOBBY AREA WHERE FT#E WILL BE PLACED. PROVIDE TV CABLE PER CONTRACT REQUIREMENTS TO EACH EXERCISE MACHINE. FOR TV'S ON EQUIPMENT, CONFIRM DIMENSIONS FROM WALL.
- W/CONSTRUCTION MANAGER JUST PRIOR TO INSTALLATION, THE BOXES FOR THE TV CABLES AND POWER CABLES AT THE EXERCISE EQUIPMENT SHALL BE INSTALLED IN THE FLOOR TRENCH. IN-FLOOR BOXES SHALL BE STEEL CITY#664-5C WITH #664-CST-SW-ALM.
- MECHANICAL CONTRACTOR SHALL PROVIDE DUCT HEATERS - ELECTRICAL CONTRACTOR SHALL PROVIDE POWER & CONTROL CIRCUITRY.
- SECURITY SYSTEM: DIGITAL, COLOR, SPAT SCREEN SECURITY MONITORS, PROVIDED BY OWNER, ROUGH IN BY ELECTRICAL CONTRACTOR.
- SECURITY MONITOR AT FRONT DESK TO BE LOCATED BY ARCHITECT, VERIFY LOCATION WITH OWNER. SECURITY MONITOR ALSO IN GENERAL MANAGER'S OFFICE, REFER TO EA.1. VERIFY IF THERE ARE OTHER LOCATIONS WITH CM.
- WIRELESS TRANSCEIVERS FOR INTERNET - LVC SHALL PROVIDE PER BIDDING AND CONTRACT, CAT 6 CABLE TO EVERY 50' IN CORRIDORS. SEE DRAWINGS E3.1, E3.2, & E3.3 FOR LOCATIONS OF WIRELESS ACCESS POINT (TRANSCEIVERS) (WAP'S). NO PLASTIC COVERS ALLOWED.
- THE SOUND SYSTEM WILL BY BY OWNER AND LVC. E.C. SHALL PROVIDE ROUGH-INS.
- THE LOW VOLTAGE CONTRACTOR (LVC) SHALL PROVIDE TWO 2" CONDUITS REQUIRED BY UTILITY (VERIFY WITH OWNER) FROM PROPERTY LINE TO COMMUNICATION ROOM. TWO 2" CONDUITS FROM THE COMMUNICATION ROOM TO FRONT DESK, TWO 2" CONDUIT TO THE SERVER, ONE 1" CONDUIT FROM THE COMMUNICATION ROOM TO ABOVE CORRIDOR CEILING ON EACH FLOOR AND TWO 2" CONDUITS FROM THE COMMUNICATION ROOM TO SATELLITE DISH LOCATION. PROVIDE 2" CONDUITS AS REQUIRED FOR CABLES & PROVIDE ONE SPARE 2" CONDUIT WITH PULL WIRE IN EACH RUN TO THE SATELLITE DISH AND TO THE PROPERTY LINE. PROVIDE AN ADDITIONAL PULL BOX AT THE SERVER AND FROM THIS PULL BOX PROVIDE TWO 2" CONDUITS TO THE FRONT DESK.
- LVC SHALL PROVIDE (5) RG-11 CABLES FROM ROOF SATELLITE DISH LOCATION TO COMMUNICATION ROOM IN 2" CONDUITS.
- ALL RECESSED LIGHTS MUST BE THERMO PROTECTED.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ANY PICKUPS REQUIRED FOR WASHERS, DRYERS, VENDING, DISHWASHERS, GARAGE DISPOSALS, COOK RANGES, ICE MACHINES AND ANY OTHER EQUIPMENT REQUIRING PICKUPS.
- OUTLETS IN THE MANAGERS OFFICES, SALES OFFICES, ETC ARE ABOVE THE DESK HEIGHT. COORDINATE WITH FURNITURE LAYOUTS.
- ELECTRICAL CONTRACTOR SHALL VERIFY THAT THE ELECTRICAL AND MECHANICAL MATCHES ON ALL EQUIPMENT. CONTACT ARCHITECT IF A CONFLICT OCCURS.
- HEARING IMPAIRED AND ADA DOOR PUSHBUTTON DEVICES SHALL BE EDWARDS 7005 G-5 HOTEL ROOM ANNUNCIATOR KIT.
- ALL LABELING OF EQUIPMENT AND ELECTRICAL PANELS SHALL BE TYPED OUT - NO HAND WRITING WILL BE ALLOWED.
- FOR ALL SURFACE MOUNTED CIRCUIT BREAKER PANELS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE 20 GAUGE PRIMED AND PAINTED REMOVABLE METAL CHASES FROM FLOOR TO PANEL AND PANEL TO CEILING. CHASES SHALL BE SCREWED TO PANEL AND TO WALL STUDS. MATCH WANT TO WALL.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EXTERIOR LUMINAIRE/POLE CONCRETE BASES WHICH SHALL BE REINFORCED AS INDICATED IN DETAILS ON ARCHITECTURAL DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LUMINAIRE MOUNTING BRACKETS TO ALLOW THE PROPER MOUNTING OF THE LUMINAIRES.
- CUTTING OF STRUCTURAL MEMBERS IS NOT ALLOWED UNLESS AUTHORIZED BY ENGINEER. SHOULD THE CONTRACTOR CUT STRUCTURAL MEMBERS, HE SHALL BEAR THE BURDEN OF THE STRUCTURAL FIX.
- ELECTRICAL CONTRACTOR SHALL PROVIDE "QUIETSEAL" SOUND CAULK AT ALL ELECTRICAL OPENINGS IN GUEST ROOM PARTY WALLS PER "SOUND CONSTRUCTION DETAILS" ON ARCHITECTURAL DRAWINGS.
- UNLOAD ALL OWNER FURNISHED LUMINAIRES AND EQUIPMENT, STOCK INTO BUILDING AND REMOVE BOXES AND OTHER TRASH TO OWNER FURNISHED DUMPSTER.
- SHOP DRAWINGS OF EQUIPMENT, LUMINAIRES & MATERIALS SHALL BE SUBMITTED TO THE OWNER AND ACCEPTED BY HIM PRIOR TO THE E.C. ORDERING ANY EQUIPMENT, LUMINAIRES OR MATERIAL.
- PROVIDE TO THE OWNER AT SUBSTANTIAL COMPLETION (3) COPIES OF O&M MANUALS AND (3) COPIES OF ALL WARRANTIES.
- GRANITE SUPPLIER TO DRILL 2" HOLES FOR CABLING IN THE FRONT DESK, WORK ROOM, BUSINESS CENTER AND BREAKFAST BAR. VERIFY ALL HOLES WITH THE OWNER. GRANITE SUPPLIER TO DRILL HOLES IN UPPER COUNTER TOP OF RECEPTION DESK FOR LAMP CORDS.

NFPA & ADA CERTIFICATION (REQUIRED)
WRITTEN CERTIFICATION FROM A REGULATORY AUTHORITY, INDEPENDENT ARCHITECT, ENGINEER, OR LICENSED INSTALLER. ALL OF WHICH REQUIRE A PROPERLY INSTALLED LIFE SAFETY SYSTEM THAT IS FULLY OPERATIONAL AND MEETS ALL NFPA STANDARDS AND ALL GUIDELINES SPECIFIED BY THE ADA. CERTIFICATIONS MUST BE SUBMITTED WITHIN THIRTY (30) DAYS OF COMPLETING INSTALLATIONS.

GENERAL ELECTRICAL NOTES

- UNLESS OTHERWISE NOTED, HOMERUN ALL CAT 6 CABLES TO PBX ROOMS. COORDINATE WITH OWNER AS TO WHICH EQUIPMENT CABLE TYPE TO WHICH PBX ROOM AND VERIFY WHICH FLOOR TO WHICH PBX ROOM.
- EXTERIOR LIGHTS & SIGNAGE: COORDINATE LOCATION OF ALL EXTERIOR LIGHTS WITH ARCHITECTURAL DRAWINGS. BUILDING SIGNAGE: COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS, WITH GENERAL CONTRACTOR & WITH SIGN VENDOR. VERIFY CIRCUITRY REQUIRED W/SIGN VENDOR PRIOR TO ROUGH IN (TYPICAL ALL SIGNS), NO EXPOSED CONDUIT OR RACEWAY ALLOWED AT THE BUILDING FACE SIGN OR BUILDING MOUNTED LIGHTS. PROVIDE ONE SPARE CONDUCTOR TO EACH SIGN (NOT EACH LOGO OR LETTER) LOCATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIREWALLS W/DRAFT STOPS ABOVE.
- DOOR SECURITY. SEE DETAIL ON E1.3.
- EXITWAY LIGHTING DURING CIRCUIT DISRUPTION: EXITWAYS SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED, WITH LIGHT HAVING AN INTENSITY OF NOT LESS THAN ONE-FOOT CANDLE AT FLOOR LEVEL.
- SECURITY CAMERA OR MONITOR: RECEPTACLE NEEDED FOR MONITORS. VERIFY MOUNTING HEIGHTS WITH OWNER, CONNECT TO SECURITY CIRCUIT. A COMPLETE AND OPERABLE SECURITY SYSTEM SHALL BE PROVIDED BY OWNER. E.C. SHALL COORDINATE WITH CONSTRUCTION MANAGER. E.C. SHALL REPAIR SYSTEM AND SHALL INSTALL CABLES.
- REFER TO PANEL SCHEDULES AND SITE PLAN FOR PARKING LOT LIGHTING AND SIGNAGE.
- ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R, 4 OR 4X.
- RECEPTACLES WITH CIRCUITS INDICATING 'UP' OR 'DN' DENOTE INTERCONNECTION OF CIRCUITS BETWEEN FLOORS. RECEPTABLES MAY BE USED FOR CONSTRUCTION PURPOSES. REPLACE RECEPTABLES AND COVER PLATE IF DIRTY OR DAMAGED AT FINAL CLEANUP PRIOR TO FINAL PUNCH LIST. PROVIDE GFCI PROTECTION INCLUDING TESTING AS REQUIRED FOR CONSTRUCTION.
- DELETED
- ELECTRICAL CONTRACTOR SHALL PROVIDE 4" CONDUIT ONLY FOR EACH TELEPHONE, INTERNET AND CATV FROM POINT OF ORIGIN INTO DESIGNATED PBX ROOM IN BUILDING, COORDINATE WITH UTILITY IF SMALLER CONDUIT IS ALLOWED OR ADDITIONAL CONDUIT IS REQUIRED. OWNER PROVIDES ONE SPARE CONDUIT OF EACH TYPE WITH PULL WIRE. COORDINATE WITH CONSTRUCTION MANAGER.
- RATED ELECTRICAL OUTLET BOXES IN OCCUPANCY SEPARATION WALLS SHALL NOT EXCEED 100 SQ. INCHES PER 100 SQ FEET OF WALL & SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES WHEN ON OPPOSITE SIDES OF A WALL. UNLESS ALLOWED OTHERWISE BY JOIST CONSTRUCTION METHODS & APPROVED BY AHJ. PROVIDE FIRE BARRIER WHERE REQUIRED BY THE AHJ. REFER TO ARCHITECTURAL DRAWINGS FOR SEPARATION WALL DESIGNATIONS. E.C. MAY PROVIDE ADDITIONAL JOISTS TO CREATE ADDITIONAL JOIST SPACES IN ORDER TO ALLOW CLOSER SPACING OF BACK TO BACK OUTLETS. REFER TO BID ALTERNATE OF FIRE RATED JUNCTION BOXES.
- STOREFRONT CONTRACTOR TO SUPPLY 12 VOLT DC ELECTRIC STRIKES AT CARD READER LOCATIONS EXCEPT FRONT ENTRANCE. VERIFY W/VENDOR. E.C. SHALL PROVIDE LOW VOLTAGE CABLE, RECEPTACLE & POWER SUPPLY.
- WIRELESS INTERNET POINTS: DETAIL ON E1.3. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH DATA VENDOR.
- THE E.C. SHALL PROVIDE A REMOVABLE FORMED, PRIMED & PAINTED, 20 GAUGE METAL COVER FOR ALL SURFACE MOUNTED PANELS. PANELS IN THESE ROOMS SHALL BE FLUSH MOUNTED WHERE FEASIBLE. THE COVERS SHALL EXTEND FROM FLOOR AND FROM PANEL TO CEILING AND SHALL BE PRIMED & PAINTED TO MATCH THE WALLS. ALL PANELS, BOTH SURFACE OR FLUSH MOUNT, IN ANY LOCATION, SHALL HAVE LOCKABLE COVERS, KEYS ALIKE.
- MECHANICAL EQUIPMENT: VERIFY EXACT LOCATION, SIZE AND OPERATION WITH MECHANICAL CONTRACTOR. PROVIDE POWER AND CONTROL WIRING AS REQUIRED BY DIVISION 15 SPECIFICATIONS & NOTES ON E1.1 AND E1.2.
- ALL RECEPTABLES SERVING COUNTERTOPS WITH SINKS SHALL BE GFI OR GFCI PROTECTED. THIS INCLUDES RECEPTABLES LOCATED ABOVE AND BELOW THE COUNTERTOP. ALL RECEPTABLES THROUGHOUT THE BUILDING WITHIN 6' OF WATER SHALL BE GFI PROTECTED.
- ALL WIRING, RECESSED LIGHTING FIXTURES, RECEPTABLES, AND ELECTRICALLY OPERATED EQUIPMENT LOCATED WITHIN THE CEILING CAVITY SHALL MEET THE PLENUM REQUIREMENTS OF ARTICLE 300.22(C) OF THE NATIONAL ELECTRICAL CODE.
- CONDUCTORS IN VERTICAL RACEWAYS SHALL BE SUPPORTED IF THE VERTICAL RISE EXCEEDS THE VALUES LISTED IN TABLE 300.19 OF THE NATIONAL ELECTRICAL CODE. (NO VERTICAL RISERS ABOVE GREATER THAN 60' & 350 KCMIL, THEREFORE NOT REQUIRED).
- WHERE RECEPTABLES ARE SHOWN NEAR SCONES, THEY SHALL BE VERTICALLY ALIGNED BELOW SCONE.
- PROVIDE LUMINAIRES WITH DISCONNECTS AS REQUIRED PER NEC 410.73 (G) FOR DOUBLE ENDED FLUORESCENT LAMP/BALLASTS.
- E.C. SHALL PROVIDE CHANGES TO PRIMARY SERVICE AS REQUIRED BY ELECTRIC UTILITY. ALL DIRECT CHARGES TO BE PAID TO THE UTILITY SHALL BE PAID DIRECTLY BY THE OWNER. THE ELECTRIC METER SHALL REMAIN ACCESSIBLE AND UNOCCUPIED AFTER CONSTRUCTION.
- WHERE THE NATIONAL ELECTRICAL CODE IS CALLED OUT IT SHALL BE THE NATIONAL ELECTRICAL CODE AS AMENDED BY THE STATE ELECTRICAL CODE AND THE CITY ELECTRICAL CODE.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOP MATERIAL AT ALL ELECTRICAL PENETRATIONS OF FIRE RATED BARRIERS. HE SHALL PROVIDE FIRE PUTTY AT ALL DEVICES AND NON-FIRE RATED JUNCTION BOXES IN GUEST ROOM PARTY AND CORRIDOR WALLS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE LOCATIONS AND RATINGS OF FIRE WALLS AND CEILINGS.
- THE E.C. SHALL VERIFY ALL DOOR SWINGS WITH THE ARCHITECTURAL PLANS & THE C.M. PRIOR TO INSTALLATION OF SWITCH BOXES. ANY DISCREPANCY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER & ARCHITECT FOR RESOLUTION.
- THE ELECTRICAL CONTRACTOR SHALL USE FIRE RESISTIVE BOXES IN FIRE RATED CEILINGS AND WALLS IN ORDER TO MINIMIZE THE USE OF FIRESTOP PUTTY. THE E.C. SHALL PROVIDE "QUIETSEAL" SOUND CAULK AT ALL ELECTRICAL OPENINGS IN GUEST ROOM PARTY AND CORRIDOR WALLS PER "SOUND CONSTRUCTION DETAILS" ON SHEET A7.2. THE BOXES SHALL BE EQUAL TO ALIED MOLDED PRODUCTS, INC. FIRE RESISTIVE WALL AND CEILING BOXES. MANUFACTURER'S REPRESENTATIVE ARE BILL GRAVES OR DONNA SUI AT EAC/TSO, PHONE 303-623-8245. THE BOXES ARE AVAILABLE THROUGH CED, CRESCENT ELECTRIC OR OTHER MAJOR DISTRIBUTORS. THE BOXES SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. CITY BUILDING REGULATIONS AND UL LISTING CE7Y.R9379. INSTALLATION METHODS MUST HAVE PRIOR APPROVAL BY THE CITY.

NOTES ON THE LOW VOLTAGE WIRING:

- ALL DATA RUNS SHALL BE CAT-6 INCLUDING ALL HOMERUNS.
- ALL TV LOCATIONS HAVE BOTH RG-6 CABLE AND CAT-6 CABLE, INCLUDING ALL HOMERUNS.
- ALL PHONE LINES SHALL BE CAT-5E, HOMERUN TO THE PBX ROOM. THE EC MAY DAISS CHAIN PHONES IN THE SAME GUEST ROOM ONLY, NO DAISS CHAINS ALLOWED IN PUBLIC OR BACK OF HOUSE AREAS.
- ALL PUBLIC AREA PHONES SHALL BE CAT-5E HOMERUN TO THE PBX ROOM.
- POOL MECHANICAL ROOM SHALL HAVE A DATA, CAT 6 CABLE.
- PROVIDE (5) RG-11 CABLES FROM ROOF SATELLITE DISH LOCATION TO PBX ROOM.
- FRONT DESK COMPUTERS, WORK ROOM COMPUTER, OFFICE COMPUTER, AND 2 PRINTERS AT FRONT DESK AND PRINTER IN WORKROOM SHALL HAVE CAT-6 TO THE SERVER NEXT TO THE OFFICE. PHONES AT FRONT DESK, WORK ROOM, AND OFFICE SHALL HAVE CAT-6 CABLE TO PBX ROOM.
- INFORMATION BOARD IN LOBBY SHALL HAVE CAT-6 CABLE TO PBX ROOM.
- WIRELESS ACCESS POINTS (WAP) SHALL HAVE CAT-6 CABLE.

MECHANICAL EQUIPMENT CONNECTION

THE FIRE ALARM SYSTEM SHALL MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. THESE DOCUMENTS SHOW A MINIMUM ALLOWABLE SYSTEM. ALL DEVICES SHOWN ON THE DRAWINGS SHALL BE INSTALLED AND ANY REQUIRED ADDITIONAL SHALL BE INCLUDED IN THE FINAL DESIGN SUBMITTED TO THE AHJ AND SHALL RECEIVE HIS APPROVAL PRIOR TO BEGINNING INSTALLATION OF THE SYSTEM. THE SYSTEM SHALL ALSO MEET THE REQUIREMENTS OF THE ADA AND SHALL HAVE TEMPORAL AND SYNCHRONIZED ALARMS AND DEVICE MOUNTING HEIGHTS.

THE ELEVATOR LOBBY SMOKE DETECTORS SHALL PROVIDE SIGNALS TO PROPERLY RECALL THE ELEVATOR AS WELL AS PROVIDE AN ALARM SIGNAL TO THE FIRE ALARM SYSTEM. THE E.C. SHALL SUBMIT TO THE AHJ ALL DETAILS REQUIRED BY NFPA 72 & CITY ELECTRICAL 807.1. HE SHALL ALSO SUBMIT TO THE AHJ THE WIRING DIAGRAMS, VOLTAGE DROP AND BATTERY LIFE CALCULATIONS FOR THE FIRE ALARM SYSTEM AS WELL AS CUT SHEETS FOR ALL DEVICES AND EQUIPMENT AND WIRING, HANGING AND INSTALLATION METHODS PROPOSED.

ELECTRICAL CONTRACTOR AND LOW VOLTAGE CONTRACTOR SHALL REFER TO DRAWING TI.3 FOR THEIR SPECIFIC OWNER DESIGNATED RESPONSIBILITIES.

CONTRACTOR TO REVIEW ALL CONTRACT DOCUMENTS AND SPECIFICATIONS FOR PRICING AND SCOPE OF WORK.

FIRE ALARM LEGEND

- FIRE ALARM SYSTEM IS FULLY ADDRESSABLE FOR ENTIRE BUILDING INCLUDING THE GUEST ROOMS.
- ADDRESSABLE SMOKE DETECTOR CLG. MOUNT OR WALL MT. 12" BELOW CLG. SYSTEM BATTERY BACKUP, ONE IS REQUIRED WITHIN 6' OF FACP. SOUND BASE REQUIRED IN GUEST ROOMS. PROVIDE STROBE WHERE REQUIRED.
- MAGNETIC DOOR HOLDER
- MANUAL SWITCH, +48" AFF MAXIMUM TO TOP OF BOX
- MINI HORN, 75 dBA
- MINI HORN/STROBE, 75 dBA, 110 CANDELA
- HORN & STROBE, +75" AFF MINIMUM, 1 STROBE/SEC, 75/15 CANDELA 85 dB TYPICAL. ADA RATED AT 177 CANDELA, 100 dB IN H/V AREAS (HEARING/VISUALLY IMPAIRED).
- STROBE ONLY, 6" BELOW CLG, ADA BRIGHTNESS: 110 CANDELA, 2 STROBES/SEC MAXIMUM, 1 MINUTE
- EVAUATION ASSISTANCE COMMUNICATION DEVICE
- EVAUATION ASSISTANCE SIGNAL SYSTEM PANEL
- HEAT DETECTOR
- COMB. HEAT/SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- SMOKE DAMPER
- COMBINATION SMOKE/FIRE DAMPER
- TAMPER SWITCH
- FAN SWITCH
- FAN RELAY WITH MODULE
- FLAME DETECTOR
- CARBON MONOXIDE DETECTOR
- FACP
- FACP
- FSS
- PROVIDE ADDRESSABLE MODULES TO INTERFACE WITH NON-ADDRESSABLE EQUIPMENT AND DEVICES.

E.C. SHALL PROVIDE EQUIPMENT IN ACCORDANCE WITH IFC, 2009 EDITION.
E.C. SHALL PROVIDE CABLES & JACKS FOR EVACUATION PHONES, OWNER TO PROVIDE PHONE.
DOORBELL AUDIO/VISUAL DEVICE, TRANSFORMER & PUSHBUTTON FOR GUESTROOM ANNUNCIATOR SHALL BE AS MANUFACTURED BY EDWARDS, KIT #7004. PROVIDE ADDITIONAL AUDIO/VISUAL DEVICE WHERE SHOWN ON DRAWINGS. EDWARDS CATALOG #6536-FS.

FIRE ALARM NOTES

ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH INTERNATIONAL FIRE CODE (IFC), 2009 EDITION.

IF ANY DISCREPANCY IS NOTED IN THE PLANS AND/OR SPECIFICATIONS PRIOR TO BIDDING, IT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER. AFTER THE CONTRACT IS LET, IT IS THE RESPONSIBILITY OF THE EC TO PROVIDE RESOLUTION OF THE DISCREPANCY TO THE SATISFACTION OF THE OWNER, THE FRANCHISE, THE ENGINEER AND THE AHJ. NO WORK SHALL BE DONE ON THE SYSTEM UNTIL THE DISCREPANCY IS RESOLVED.

THIS FIRE ALARM SYSTEM SHALL BE FULLY ADDRESSABLE FOR THE ENTIRE BUILDING INCLUDING ALL GUEST ROOMS.

THE FIRE ALARM SYSTEM SHALL MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ), THE OWNER AND THE FRANCHISE. THESE DOCUMENTS SHOW A MINIMUM ALLOWABLE SYSTEM. ALL DEVICES SHOWN ON THE DRAWINGS SHALL BE INSTALLED AND ANY REQUIRED ADDITIONAL SHALL BE INCLUDED IN THE FINAL DESIGN SUBMITTED TO THE AHJ AND FRANCHISE. THE SYSTEM SHALL ALSO MEET THE REQUIREMENTS OF THE ADA AND SHALL HAVE TEMPORAL AND SYNCHRONIZED ALARM AND DEVICE MOUNTING HEIGHTS.

PROVIDE A FULLY ADDRESSABLE FIRE ALARM SYSTEM (FAS) APPROVED BY BOTH THE AHJ AND THE FRANCHISE. THE E.C. SHALL SUBMIT A COMPLETE SET OF PLANS TO THE AHJ WITHIN 30 DAYS OF THE CONTRACT LETTING FOR APPROVAL & RECEIVE WRITTEN APPROVAL FROM THE AHJ. THE PLANS SHALL INCLUDE ALL DETAILS REQUIRED BY THE IFC. HE SHALL ALSO SUBMIT TO THE AHJ THE WIRING DIAGRAMS, VOLTAGE DROP AND BATTERY LIFE CALCULATIONS FOR THE FAS AS WELL AS CUT SHEETS FOR ALL DEVICES AND EQUIPMENT, AND WIRING, HANGING AND INSTALLATION METHODS PROPOSED. AFTER AHJ APPROVAL, HE SHALL IMMEDIATELY SUBMIT A COPY OF THE APPROVED DRAWINGS TO THE ENGINEER FOR HIS REVIEW AND COMMENTS AND AT THE SAME TIME SUBMIT TO THE FRANCHISE FOR THEIR APPROVAL. ALL SUBMITTALS TO THE ENGINEER SHALL BE PAPER ONLY. NO DIGITAL FILES WILL BE ACCEPTED. IF THE FRANCHISE REJECTS OR AMENDS THE AHJ APPROVED DRAWINGS, THEY SHALL BE REVISED TO MEET THE FRANCHISE REQUIREMENTS AND RESUBMITTED TO THE AHJ, OWNER AND FRANCHISE. WRITTEN APPROVAL FROM THE AHJ AND FRANCHISE SHALL BE OBTAINED BEFORE ANY INSTALLATION OF MATERIALS & DEVICES IS DONE ON THE SYSTEM.

THE E.C. SHALL FULLY TEST THE FIRE ALARM SYSTEM. WRITTEN CERTIFICATION SHALL BE OBTAINED FROM THE REGULATORY AUTHORITY, INDEPENDENT ARCHITECT, ENGINEER, OR LICENSED INSTALLER TO SHOW THAT THE SYSTEMS REQUIRED HAVE BEEN INSTALLED ACCORDING TO THE APPROVED PLAN, IS FULLY OPERATIONAL, TESTED, MEETS ALL IFC STANDARDS AND ALL GUIDELINES SPECIFIED BY THE ADA AND IS APPROVED BY THE AHJ. CERTIFICATIONS MUST BE SUBMITTED, VIA THE OWNER, TO THE FRANCHISE WITHIN THIRTY (30) DAYS OF COMPLETING INSTALLATIONS.

FLOW SWITCHES & TAMPER SWITCHES AS REQUIRED BY CODE. PROVIDE CIRCUITRY FOR WARNING & ALARMS AS REQUIRED BY SPRINKLER SYSTEM ZONING. COORDINATE ALL LOCATIONS WITH THE SPRINKLER SYSTEM DRAWINGS. TAMPER SWITCHES ARE REQUIRED FOR BOTH FULL OPEN AND FULL CLOSED.

PROVIDE FACP, FAAP AS REQUIRED AND CABLE & OUTLET FOR AN EMERGENCY PHONE AT EACH FLOOR LANDING IN THE STAIRWELLS. THE EMERGENCY PHONE WILL CONNECT DIRECTLY TO THE FRONT DESK ONLY. INDIRECTLY REFERS TO DETECTION DEVICES UTILIZING A RELAY AND ADDRESSABLE MODULE FOR THE CO, FLOW, TAMPER SWITCHES AND SIMILAR DETECTORS.

MOTORIZED SMOKE AND COMBINATION SMOKE AND FIRE DAMPERS: E.C. SHALL PROVIDE EACH WITH A DISCONNECT SWITCH MOUNTED NEAR THE DAMPER BUT NOT IN PUBLIC VIEW. PROVIDE CONTROL FROM THE FACP VIA RELAY CONTACTS.

SYSTEM SMOKE DETECTORS SHALL BE HARDWIRED TO THE FACP AND HAVE SYSTEM BATTERY BACKUP AND SHALL COMPLY WITH LOCAL CODES. GUEST ROOM SMOKE DETECTORS SHALL BE HARDWIRED TO THE FACP AND HAVE BATTERY BACKUP INDIVIDUALLY OR BY THE SYSTEM BATTERY. ALL SMOKE, HEAT, CARBON MONOXIDE (CO), FLOW AND TAMPER SWITCHES SHALL BE DIRECTLY OR INDIRECTLY HARDWIRED TO THE FACP. INDIRECTLY REFERS TO DETECTION DEVICES UTILIZING A RELAY AND ADDRESSABLE MODULE FOR THE CO, FLOW, TAMPER SWITCHES AND SIMILAR DETECTORS.

APPROVED NOTIFICATION APPLIANCES FOR THE HEARING IMPAIRED SHALL BE INSTALLED IN THE FOLLOWING AREAS: RESTROOMS, CORRIDORS, LOBBIES, MEETING ROOMS, POOL, OCCUPIED ROOMS, WHEN AMBIENT NOISE IMPAIRS HEARING OF THE FIRE ALARM, OTHER AREAS FOR COMMON USE AND DESIGNATED GUEST ROOMS.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOP MATERIAL AT ALL ELECTRICAL PENETRATIONS OF FIRE RATED BARRIERS. HE SHALL PROVIDE FIRE PUTTY AT ALL DEVICES AND JUNCTION BOXES IN GUEST ROOM PARTY AND CORRIDOR WALLS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE LOCATIONS AND RATINGS OF FIRE WALLS AND CEILINGS. USE OF FIRE RATED BOXES WILL ELIMINATE THE NEED FOR PUTTY AT THE BOXES, BUT THE BOXES SHALL BE SEALED AT THE OPENING.

THE VARIOUS ELEVATOR LOBBY SMOKE DETECTORS SHALL PROVIDE SIGNALS TO PROPERLY RECALL THE ELEVATOR AS WELL AS PROVIDE AN ALARM SIGNAL TO THE FIRE ALARM SYSTEM.

SPECIAL BIDDING REQUIREMENTS

LOW VOLTAGE CABLING

- THERE MAY BE ITEMS IN THE DRAWINGS AND SPECIFICATIONS WHICH CONTRADICT THESE REQUIREMENTS. THESE REQUIREMENTS SUPERCEDE THOSE ITEMS.
- THE TELEPHONE CABLES SHALL BE CAT. 5E WITH RJ45 TERMINATIONS.
- THE TELEVISION CABLE SHALL BE BOTH COAX RG6 AND CAT. 6 WITH RG45 TERMINATIONS.
- ALL DATA CABLE SHALL BE CAT. 6 WITH RJ45 TERMINATIONS.
- INSTALLATION AND TESTING OF CABLES SHALL AS BE AS REQUIRED BY THE STANDARDS FOR THAT CABLE TYPE.
- THE UNDERGROUND ELECTRICAL CONDUITS WITHIN THE BUILDING ARE INSTALLED AND ARE NOT TO BE BID. ANY CHANGES REQUIRED WILL BE BY CHANGE ORDER.
- DUE TO NEW CASEWORK AND FURNITURE LAYOUTS, THE INDICATED QUANTITY AND APPROXIMATE LOCATIONS OF DEVICES SHALL BE USED FOR BIDDING. THE FINAL LOCATIONS SHALL BE DETERMINED BY THE OWNER AND FRANCHISE AND THE E.C. SHALL INSTALL THE DEVICES AS REQUIRED IN COORDINATION WITH THE OWNER AND FRANCHISE.
- THE E.C. SHALL INCLUDE IN HIS BID AND PAY ALL ASSOCIATED EXCISE TAXES AND PERMIT FEES.
- THE FOLLOWING SHALL BE BID AND INDICATED WITH PER UNIT INSTALLED COSTS:
- 1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SEPARATE LINE ITEM AMOUNT ON THE BID FORM FOR PROVIDING 18 GAUGE COAX CABLE FOR THE TELEVISION SYSTEMS.
- 2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SEPARATE LINE ITEM AMOUNT ON THE BID FORM FOR PROVIDING CAT. 6 CABLE FOR THE TELEVISION SYSTEM.
- 3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SEPARATE LINE ITEM AMOUNT ON THE BID FORM FOR PROVIDING CAT. 5E CABLE FOR THE TELEPHONE SYSTEM.
- 4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SEPARATE LINE ITEM AMOUNT ON THE BID FORM FOR PROVIDING CAT. 6 CABLE FOR THE DATA SYSTEM.
- THE DEFINITION OF "PROVIDE" IS TO "FURNISH AND INSTALL" WITH ALL ASSOCIATED MATERIAL REQUIRED IN ORDER TO CREATE A COMPLETE SYSTEM. "PROVIDE" FOR THE CABLES INCLUDES A PROPERLY TESTED CABLE SYSTEM WITH CERTIFIED TEST RESULTS DELIVERED TO THE OWNER. THE DATA SYSTEM SHALL BE TERMINATED ONLY AT THE LOAD END WITH EXTRA CABLE LENGTH AND CABLE LABELING AT THE SYSTEM END IN THE COMMUNICATION (PBX) ROOM. THE TERMINATIONS OF THE DATA SYSTEMS IN THE PBX ROOM SHALL BE BY THE DATA EQUIPMENT VENDOR.

THE ELECTRICAL CONTRACTOR SHALL USE FIRE RESISTIVE BOXES IN FIRE RATED CEILINGS AND WALLS IN ORDER TO MINIMIZE THE USE OF FIRESTOP PUTTY. THE E.C. SHALL PROVIDE "QUIETSEAL" SOUND CAULK AT ALL ELECTRICAL OPENINGS IN GUEST ROOM PARTY AND CORRIDOR WALLS PER "SOUND CONSTRUCTION DETAILS" ON SHEET A7.2. THE BOXES SHALL BE EQUAL TO ALIED MOLDED PRODUCTS, INC. FIRE RESISTIVE WALL AND CEILING BOXES. MANUFACTURER'S REPRESENTATIVE IS MICK FINN AT PETERSEN-FINN, PHONE 763-657-0529 AND THE BOXES ARE AVAILABLE THROUGH GRABYAR OR J.H.LARSEN. THE BOXES SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS, CITY BUILDING REGULATIONS AND UL LISTING CE7Y.R9379. INSTALLATION METHODS MUST HAVE PRIOR APPROVAL BY THE CITY.

FIRE ALARM NOTES

- SMOKE DETECTORS SHALL BE INSTALLED MINIMUM 3'-0" FROM HVAC SUPPLY AIR DIFFUSERS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED FIRE ALARM SYSTEM, INCLUDING ALL DEVICES AND WIRING LAYOUTS, TO THE FIRE MARSHAL FOR APPROVAL PRIOR TO SUBMITTING TO THE FRANCHISE AND TO ENGINEER FOR HIS REVIEW AND COMMENTS. ANY REVISIONS AND/OR ADDITIONS REQUIRED BY THE LOCAL JURISDICTION PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY ARE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NOT BE REASON FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR.
- CONNECT ALL FIRE/SMOKE DAMPERS TO CIRCUIT VIA FIRE ALARM RELAY. DAMPERS SHALL CLOSE UPON ACTIVATION BY BUILDING AUTHORITIES.
- (NOT APPLICABLE FOR THIS PROJECT) PROVIDE SMOKE DETECTION IN ATTIC SPACE WHEN REQUIRED BY LOCAL AUTHORITIES.
- VERIFY LOCATION OF THE FIRE ALARM CONTROL PANEL WITH THE LOCAL AUTHORITY HAVING JURISDICTION. LOCATION MUST BE ACCEPTABLE TO FRANCHISE.
- PROVIDE INTERLOCKS TO THE BUILDING FIRE ALARM SYSTEM TO PROVIDE AUTOMATIC SIGNALING TO AN APPROVED CENTRAL STATION WITH ADEQUATE DIALING AND COMMUNICATION SYSTEM TO ALERT THE LOCAL FIRE DEPARTMENT. A LEASED TELEPHONE LINE WILL BE PROVIDED BY THE OWNER.
- ALL JUNCTION BOXES AND COVER PLATES TO FIREALARM SYSTEM SHALL BE PAINTED RED FOR QUICK RECOGNITION.
- REFERENCE MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND FIRE/SMOKE DAMPERS.
- CONTRACTOR SHALL VERIFY THAT THE QUANTITY AND LOCATIONS SHOWN ON THE DRAWINGS SHALL PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM TO THE OWNER.
- FIRE ALARM DEVICES IN GUEST ROOMS AND IN THE REST OF THE BUILDING SHALL BE ADDRESSABLE.
- THE FIRE ALARM SYSTEM SHALL BE MONITORED BY A REMOTE CENTRAL STATION COMPANY WHICH COMPANY SHALL BE NATIONALLY RECOGNIZED AND SHALL MONITOR THE SYSTEM 7/24/365. THE COMPANY SHALL BE ACCEPTABLE TO THE AHJ.

FIRE ALARM SEQUENCE OF OPERATION:

- WHEN SMOKE IS SENSED IN A GUEST ROOM, SMOKE DETECTOR SHALL ACTIVATE ALARM DEVICES WITHIN THAT GUEST ROOM ONLY AND PROVIDE TROUBLE INDICATION IN THE FIRE ALARM CONTROL PANEL.
- AN ALARM (TROUBLE) SIGNAL SHALL BE SENT TO THE FIRE ALARM ANNUNCIATOR PANEL LOCATED AT FRONT DESK. FRONT DESK SHALL BE CONSTANTLY ATTENDED. EMERGENCY ACTION CAN BE INITIATED FROM THIS LOCATION. IF THE GUEST ROOM HAS MULTIPLE SMOKE DETECTORS, THE DEVICES SHALL BE LINKED TOGETHER SO THAT WHEN A DETECTOR GOES INTO ALARM ALL ALARM DEVICES IN THAT GUEST ROOM SHALL ACTIVATE AND ALL STROBES SHALL FLASH.
- FIRE ALARM CONTROL PANEL SHALL INDICATE WHICH ROOM IS IN ALARM (ADDRESSABLE)
- HEARING IMPAIRED DESIGNATED GUESTROOMS SHALL HAVE ADDITIONAL STROBES LOCATED AS SHOWN ON DRAWINGS. WHEN SMOKE DETECTORS ARE IN ALARM, ALL THE ALARM DEVICES SHALL SOUND AND ALL THE STROBES SHALL FLASH IN THE ENTIRE GUEST ROOM.

FIRE ALARM SEQUENCE OF OPERATION - SYSTEM ALARM

- WITH THE ACTIVATION OF ANY CORRIDOR, COMMON AREA, HEAT DETECTOR, SMOKE DETECTOR, HORN, FULL STATION OR SPRINKLER FLOW ALARM, THE FIRE ALARM SYSTEM SHALL AUTOMATICALLY GO INTO ALARM. ALL ALARM DEVICES SHALL ACTIVATE AND ALL SPEAKERS SHALL GIVE INSTRUCTION AS REQUIRED BY FIRE MARSHAL AND STROBES SHALL FLASH - THIS INCLUDES GUEST ROOMS.
- ELEVATOR SHUT VENT DAMPERS SHALL ACTIVATE UPON ALARM FROM ANY SMOKE/HEAT DETECTOR LOCATED IN ELEVATOR LOBBY OR ELEVATOR SHAFT. OPERATION OF ELEVATOR SHAFT VENT DAMPER SHALL BE AS REQUIRED BY THE FIRE MARSHAL.
- REFERENCE MECHANICAL CONTROL DRAWINGS FOR SEQUENCE OF OPERATION OF ALL MECHANICAL EQUIPMENT REQUIRED TO OPERATE (CEASES OPERATION) UPON ACTIVATION OF FIRE ALARM.

FIRESTOPPING OF ELECTRICAL CIRCUITRY IN FIRE BARRIER SURFACES.

- FIRESTOPPING INSTALLATION, MATERIALS AND METHODS FOR THE VARIOUS ELECTRICAL SYSTEMS PENETRATING FIRE RATED BARRIERS SHALL BE MADE PER THE REQUIREMENTS OF SECTION 714.4.1.1.2 OF THE IBC. ALL METHODS SHALL BE APPROVED BY THE AHJ PRIOR TO ANY INSTALLATION. ONLY PROPER METHODS SHALL BE BID. REFER TO ARCHITECTURAL DRAWING A10.2 FOR FIRESTOPPING SYSTEMS.

FAS BIDDING DOCUMENTS

THE ELECTRICAL CONTRACTOR SHALL PROVIDE A FULL SET OF BIDDING DOCUMENTS TO THE FIRE ALARM VENDOR. THEY SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FULL SET OF ELECTRICAL DRAWINGS & SPECIFICATIONS, INCLUDING ALL FIRE ALARM SYSTEM SPECIFICATIONS, THE MECHANICAL DRAWINGS TO SHOW FUEL USAGE EQUIPMENT, SMOKE & FIRE DAMPERS, DUCT SMOKE DETECTORS, CONTROL RELAYS FOR LARGE HVAC EQUIPMENT, MECHANICAL SPECIFICATIONS AND ANY CUT SHEETS SHOWING THE FUNCTIONAL CONNECTION OF MECHANICAL EQUIPMENT, AND THE REFLECTED CEILING PLANS SHOWING CEILING HEIGHTS. HE SHALL REVIEW ALL OF THE DRAWINGS AND NOTIFY THE ENGINEER OF ANY CONFLICTS.

FOR FIRE ALARM SYSTEM VENDORS: CAD DOCUMENTS WILL BE AVAILABLE UPON WRITTEN REQUEST, SPECIFY WHICH DOCUMENTS ARE NEEDED. DOCUMENTS WILL CONTAIN FIRE ALARM SYSTEM DEVICES AND CEILING EQUIPMENT. CONTACT ARCHITECT FOR FURTHER INFORMATION.

APPROVAL



Pueblo, CO

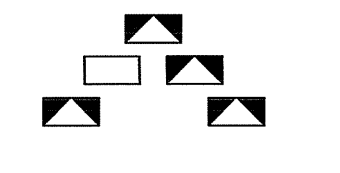


208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

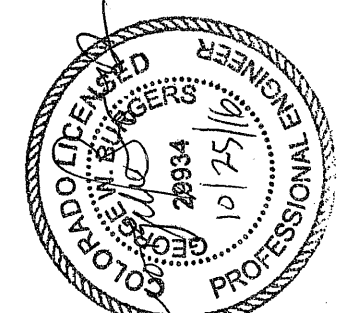
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ARCHITECT:

LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005



GEORGE W. BURGERS, P.E.
THE ELECTRICAL ENGINEER
449 W. LOOKOUT DR. PUEBLO, NEBR. 67501
PH: 719-647-1997



Electrical Special requirements, General Notes, & Fire Alarm Legend & Notes

PROJECT NO.
W16006

DRAWN BY:
jb

CHECKED BY:
GWB

DATE:
10.21.2016

SHEET:

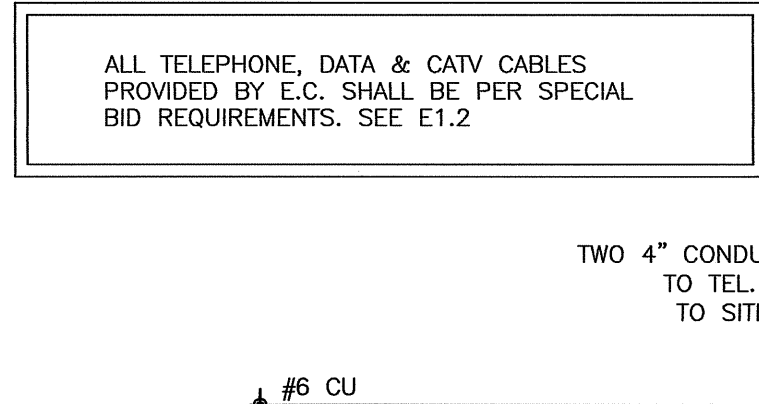
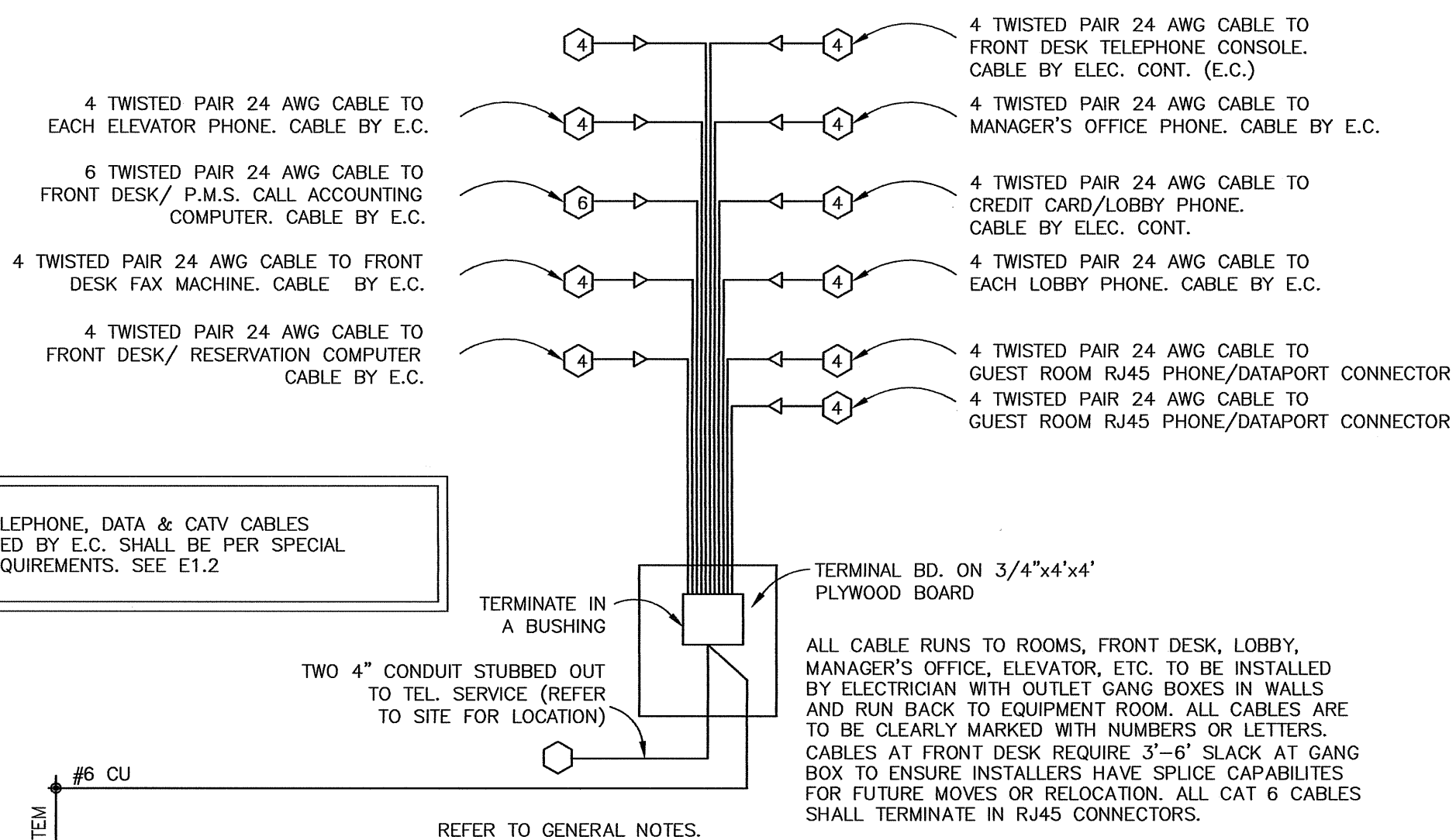
E1.2

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TELEPHONE CABLES SHALL BE CAT 5E WITH RJ45 TERMINATIONS.

COORDINATE CABLE REQUIREMENTS WITH CONSTRUCTION MANAGER PRIOR TO INSTALLATION OF CABLES. EACH GUEST ROOM TELEPHONE SHALL BE TWO LINE WITH DATAPORT. DATA CABLES SHALL NOT BE DAISSY CHAINED. TELEPHONE CABLES IN THE SAME GUEST ROOM UNIT MAY BE DAISSY CHAINED. CATV CABLES SHALL NOT BE DAISSY CHAINED.



TELEPHONE RISER

SCALE: N/A

TERMINAL BD. ON 3/4"x4"x4" PLYWOOD BOARD

ALL CABLE RUNS TO ROOMS, FRONT DESK, LOBBY, MANAGER'S OFFICE, ELEVATOR, ETC. TO BE INSTALLED BY ELECTRICIAN WITH OUTLET GANG BOXES IN WALLS AND RUN BACK TO EQUIPMENT ROOM. ALL CABLES ARE TO BE CLEARLY MARKED WITH NUMBERS OR LETTERS. CABLES AT FRONT DESK REQUIRE 3'-6" SLACK AT GANG BOX TO ENSURE INSTALLERS HAVE SPICE CAPABILITIES FOR FUTURE MOVES OR RELOCATION. ALL CAT 6 CABLES SHALL TERMINATE IN RJ45 CONNECTORS.

REFER TO GENERAL NOTES.

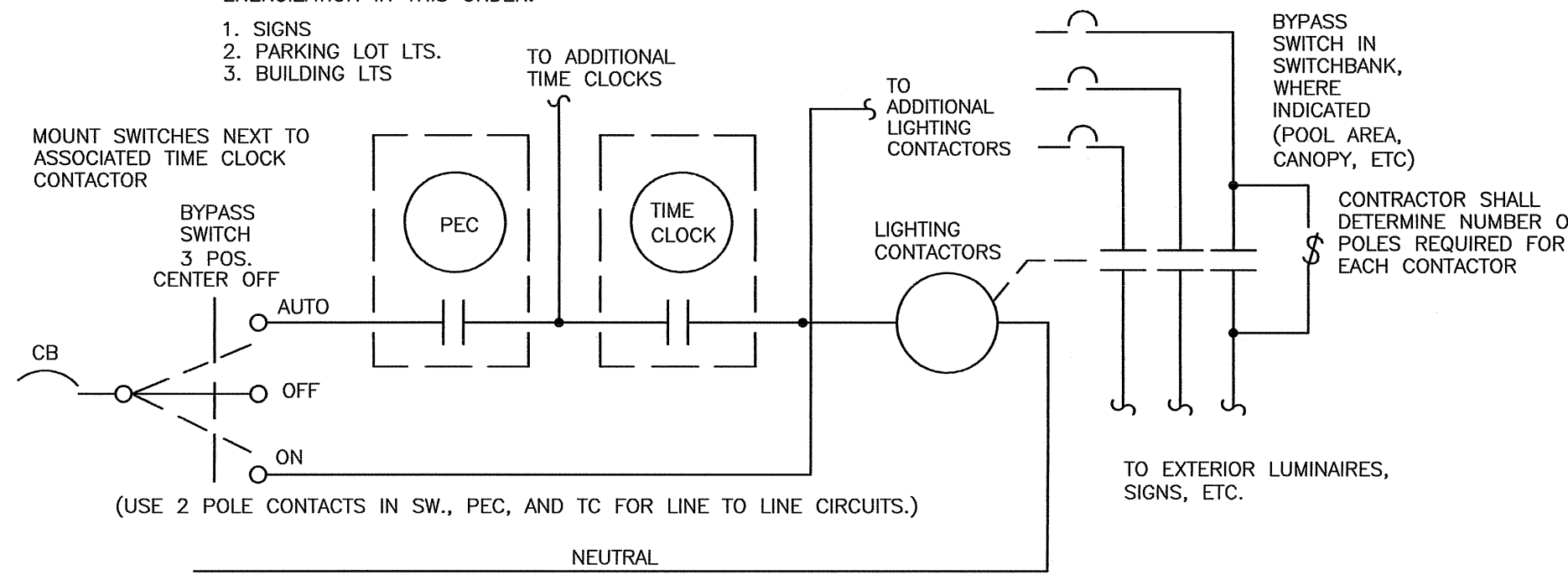
(2) 4" EMPTY PVC W/PULL LINE (SCHEDULE 40) DUCT FROM THE PROPERTY LINE (TELEPHONE PEDESTAL) TO BUILDING TELEPHONE BOARD. FIELD VERIFY PEDESTAL LOCATION W/TELEPHONE CO. & MINIMUM CONDUIT SIZE AND QUANTITY BEFORE BIDDING & PROCEEDING WITH THIS WORK. PROVIDE 3/4" -#6 COPPER GROUND FROM SWITCHGEAR GROUNDING BUS TO TELEPHONE SERVICE.

ELECTRICAL CONTRACTOR SHALL SUPPLY & INSTALL TELEPHONE COMPANY PULL BOX, DIRECTED BY TELEPHONE COMPANY & ALL RELATED CONDUIT FROM POINT OF ORIGIN TO DESIGNATED ROOM IN BUILDING.

TIME CLOCKS SHALL PROVIDE "ON" CONTROL FROM DUSK TO DAWN. PHOTO ELECTRIC CELL (PEC) SHALL PREVENT LUMINAIRE ENERGIZATION WHEN LIGHT LEVEL IS ABOVE 50 FC (NO SHUTTER ON PEC).

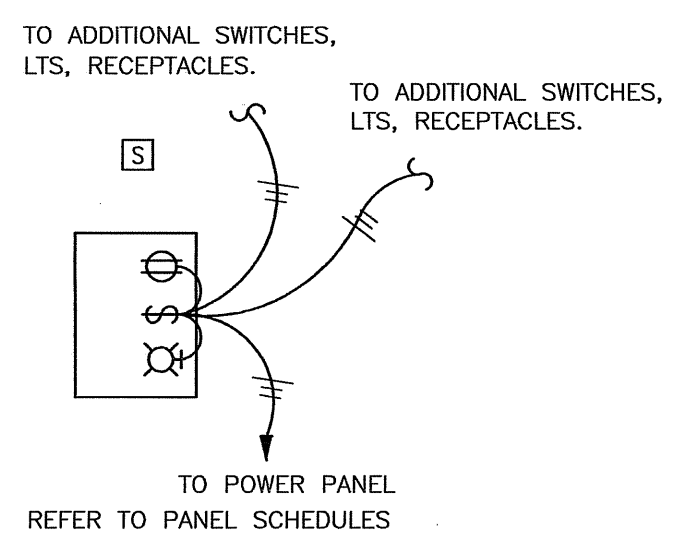
ELECTRICAL CONTRACTOR TO PROVIDE (3) SETS OF MICRO-PROCESSOR BASED ASTRONOMICAL TIME CLOCKS - PARAGON TIME SYSTEM - (WITH BATTERY BACKUP), CONTACTORS AND PHOTOCELLS. REFER TO OWNER'S NOTES ON E1.2. SET TIME CLOCKS FOR 15 MINUTES BETWEEN CIRCUIT ENERGIZATION IN THIS ORDER:

1. SIGNS
2. PARKING LOT LTS.
3. BUILDING LTS.



EXTERIOR LIGHTING CIRCUIT

SCALE: N/A



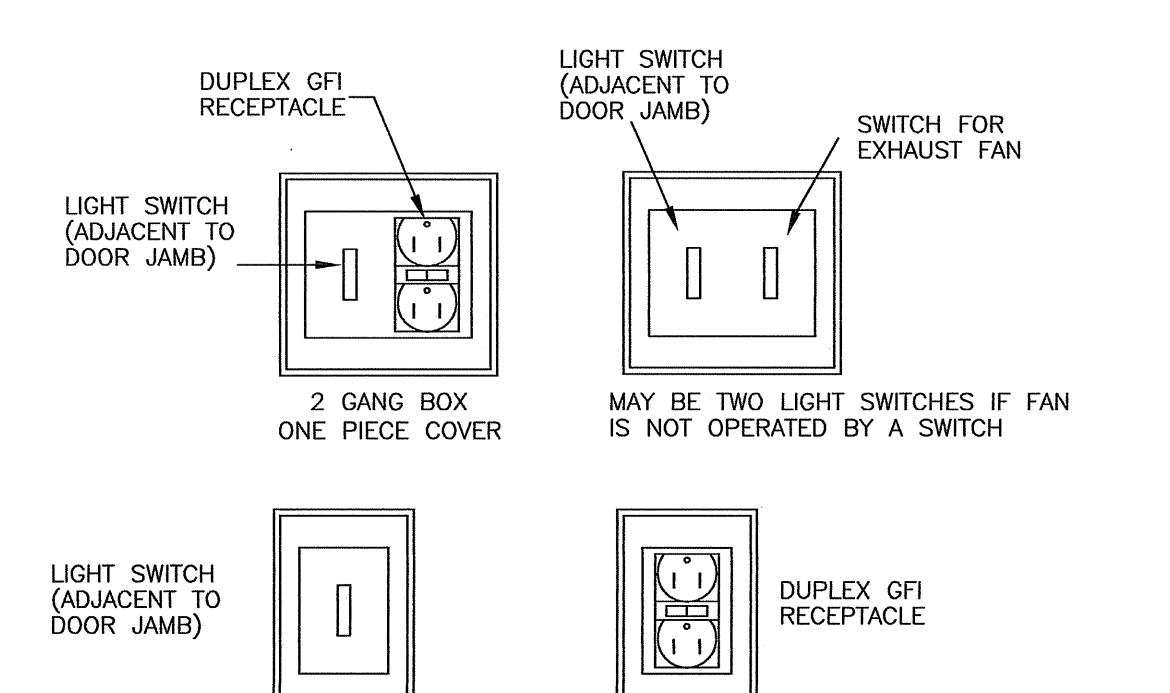
MOUNT SWITCH & RECEPTACLE IMMEDIATELY INSIDE & NEXT TO ATTIC ACCESS OPENING. LIGHT FIXTURE TO BE WALL MOUNTED ABOVE SWITCH ON DRAFT STOP WALL OR JOIST BRACING AT +7'-6" AFF OR 18" BELOW ROOF, WHICH EVER IS LOWER. MOUNT LIGHT & RECEPTACLE NEAR ALL MECHANICAL EQUIPMENT REQUIRING MAINTENANCE.

FIXTURE: VERIFY TYPE ON LUMINAIRE SCHEDULE.

REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

USE 3 & 4-WAY SWITCHING AS REQUIRED FOR PASSAGEWAY LIGHTING IN ATTIC SPACES.

REFER TO FIRE ALARM DIAGRAM THIS SHEET FOR FIRE ALARM SYSTEM DEVICES. PROVIDE SYSTEM SMOKE DETECTORS IN EACH DRAFT STOPPED SPACE AS REQUIRED BY AREA AND SPACING. USE COMBINATION HEAT/SMOKE DETECTORS AT AREAS W/MECHANICAL EQUIPMENT.



TYPICAL BATH WALL SWITCH/RECEPTACLE

SCALE: N/A

IF SMOKE/FIRE DAMPER IS 120 VOLT, POWER FROM NEAREST RECEPTACLE CIRCUIT THAT IS ENERGIZED 24/7/365

IF A RECEPTACLE CIRCUIT IS NOT READILY AVAILABLE, AND IF SMOKE/FIRE DAMPER IS 120 VOLT, POWER FROM NEAREST LIGHTING CIRCUIT THAT IS ENERGIZED 24/7/365

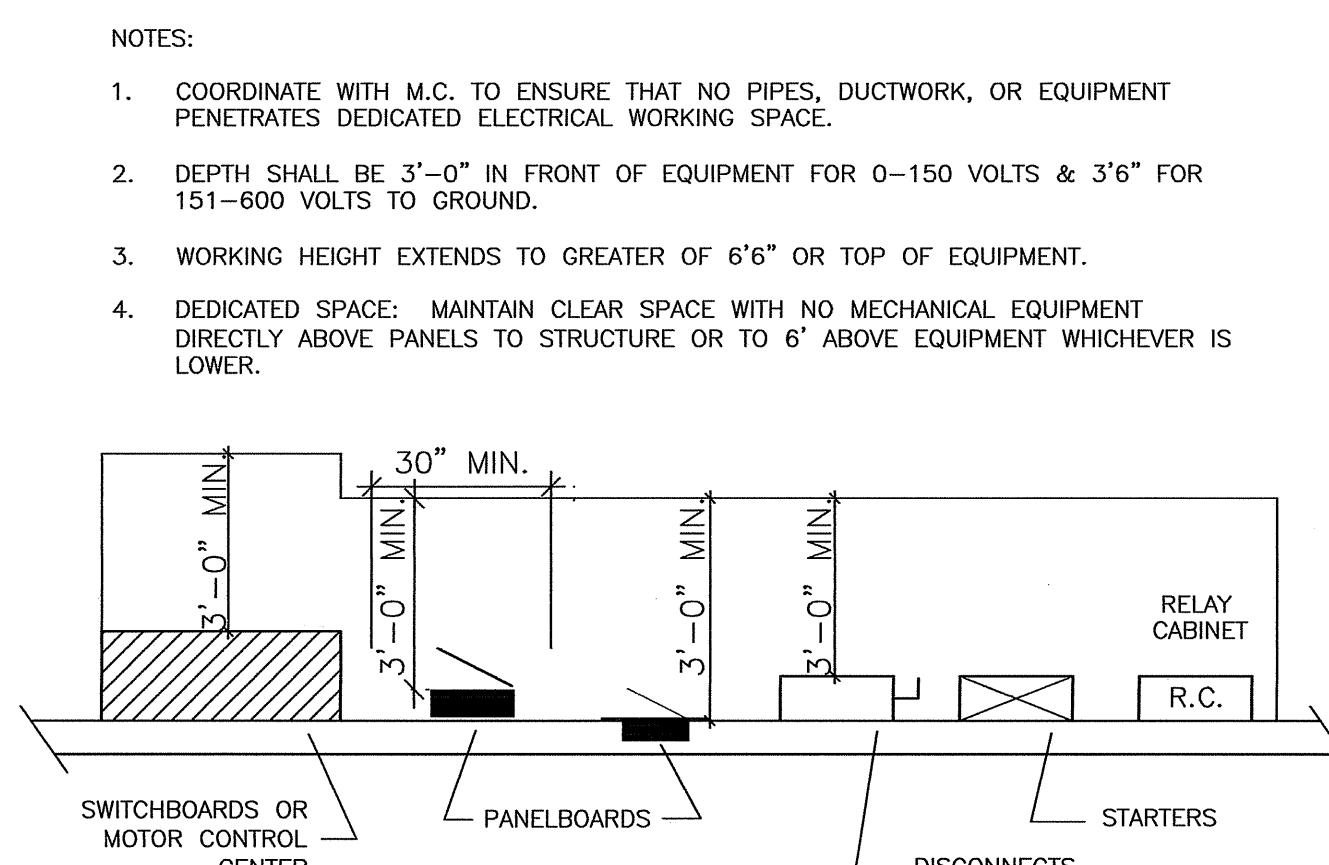
DAMPER IS POWERED OPEN. LOSS OF POWER ON ALARM CLOSSES THE DAMPER.

MOUNT DISCONNECT SWITCH IN ACCESS SPACES WITHIN 18" OF COMBINATION SMOKE/FIRE DAMPER CONTROL.

PROVIDE CONTROL RELAY. CONNECT COIL TO FACP ALARM CIRCUIT AND POWER FROM RECEPTACLE TO FACP ALARM TERMINAL

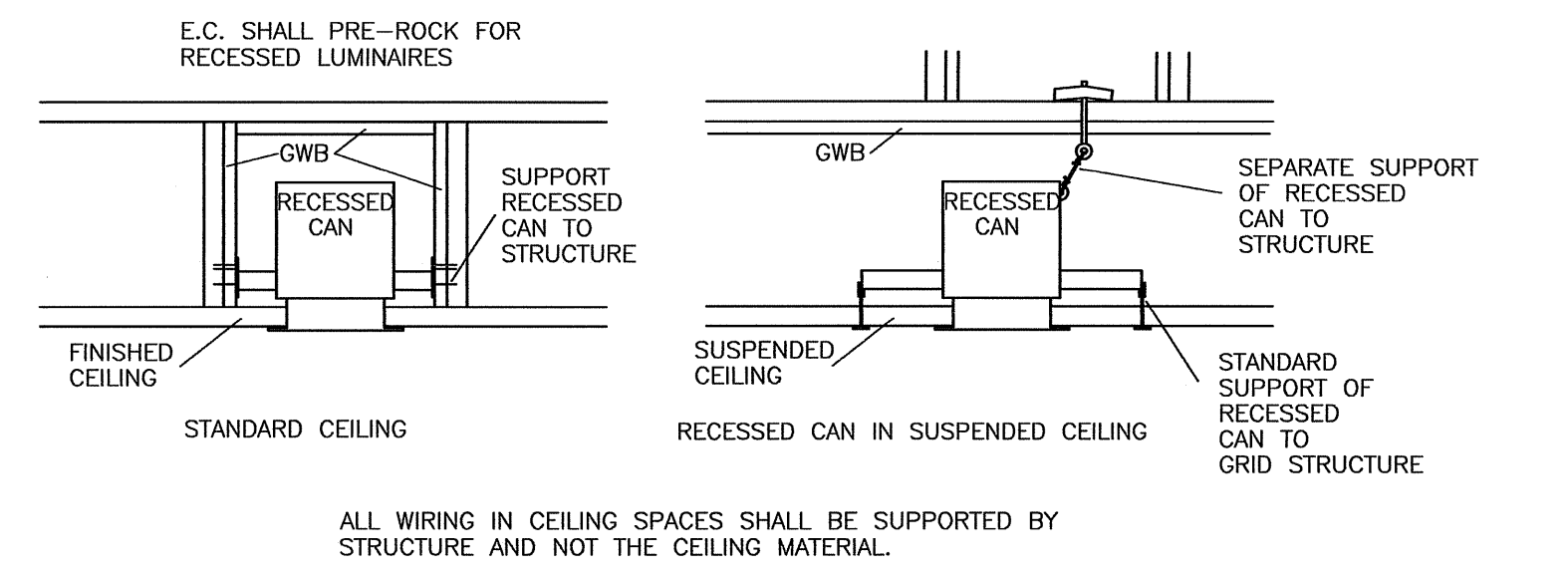
SMOKE/FIRE DAMPERS

SCALE: NOT TO SCALE



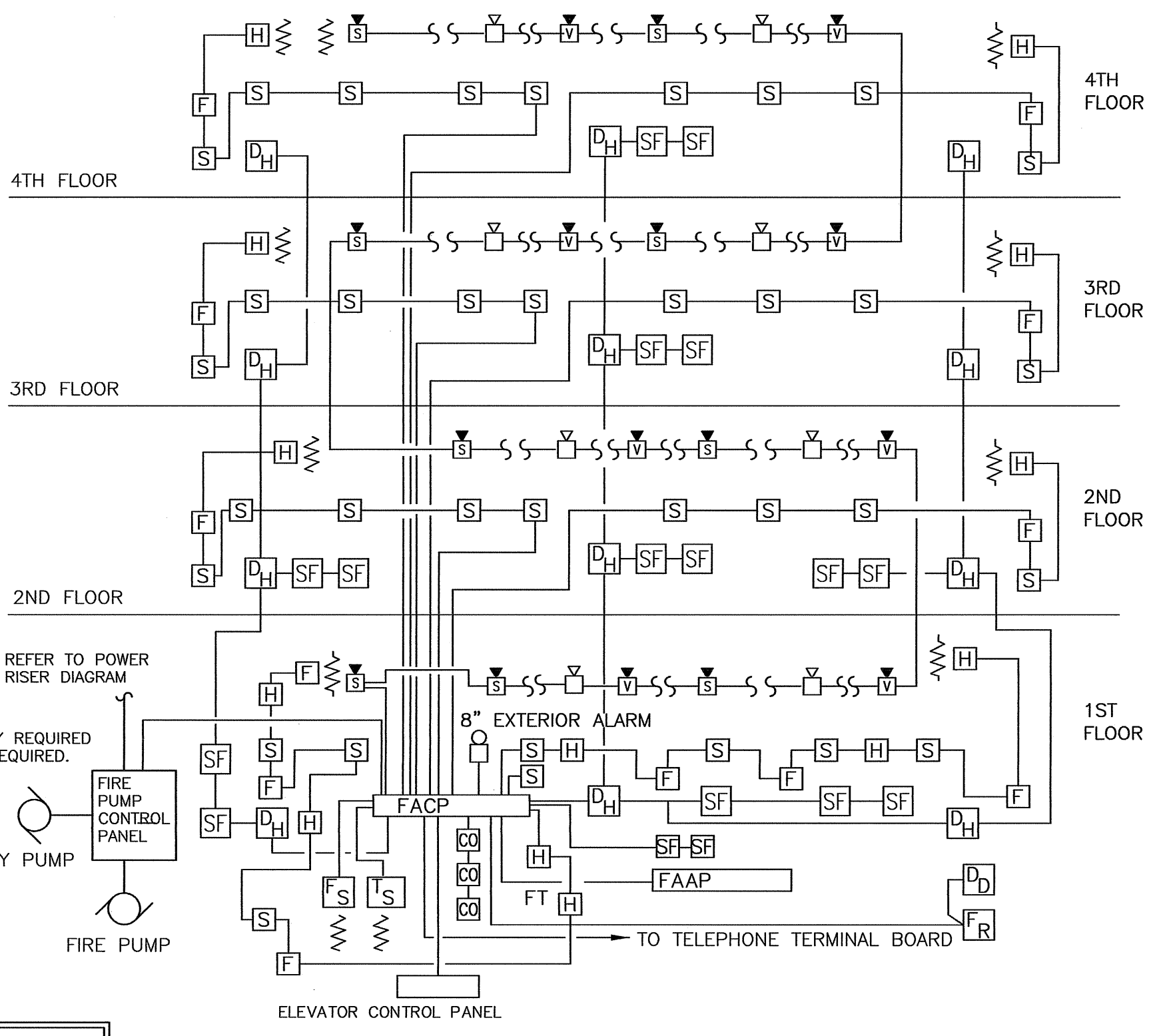
REQUIRED CLEARANCES

SCALE: N/A



LUMINAIRE SUPPORT

SCALE: N/A



TYPICAL FIRE ALARM DIAGRAM

SCALE: N/A

APPROVAL



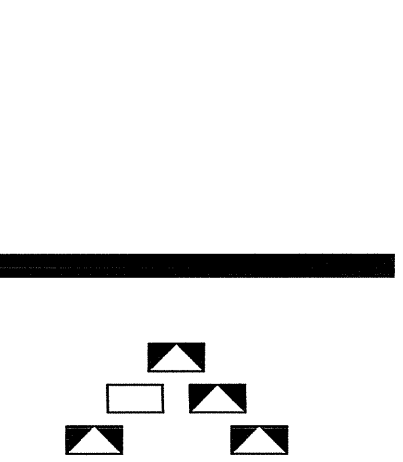
Pueblo, CO

PROJ. MGR. PRO GROUP INC.

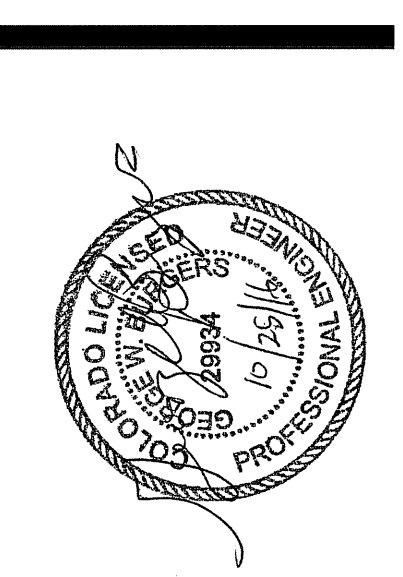
208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

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ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005



GEORGE W. BURGERS, P.E.
The ELECTRICAL ENGINEER
48 W. LOOKOUT RD. WEST, CO 80807
PH: 719-647-1987

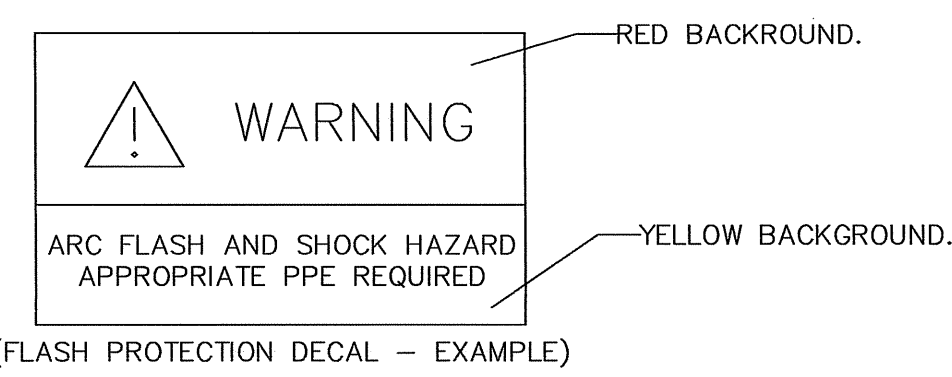


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Electrical Details

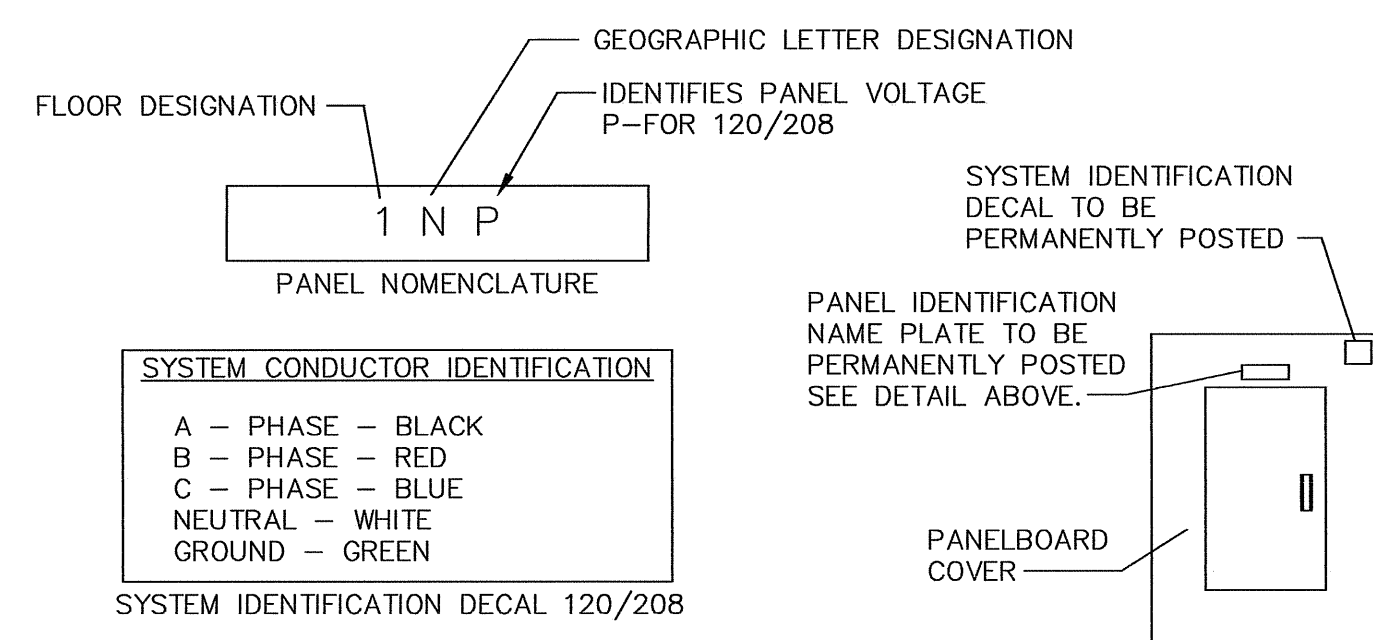
PROJECT NO. W16006
DRAWN BY: jb
CHECKED BY: GWB
DATE: 10.21.2016
SHEET:

E1.3



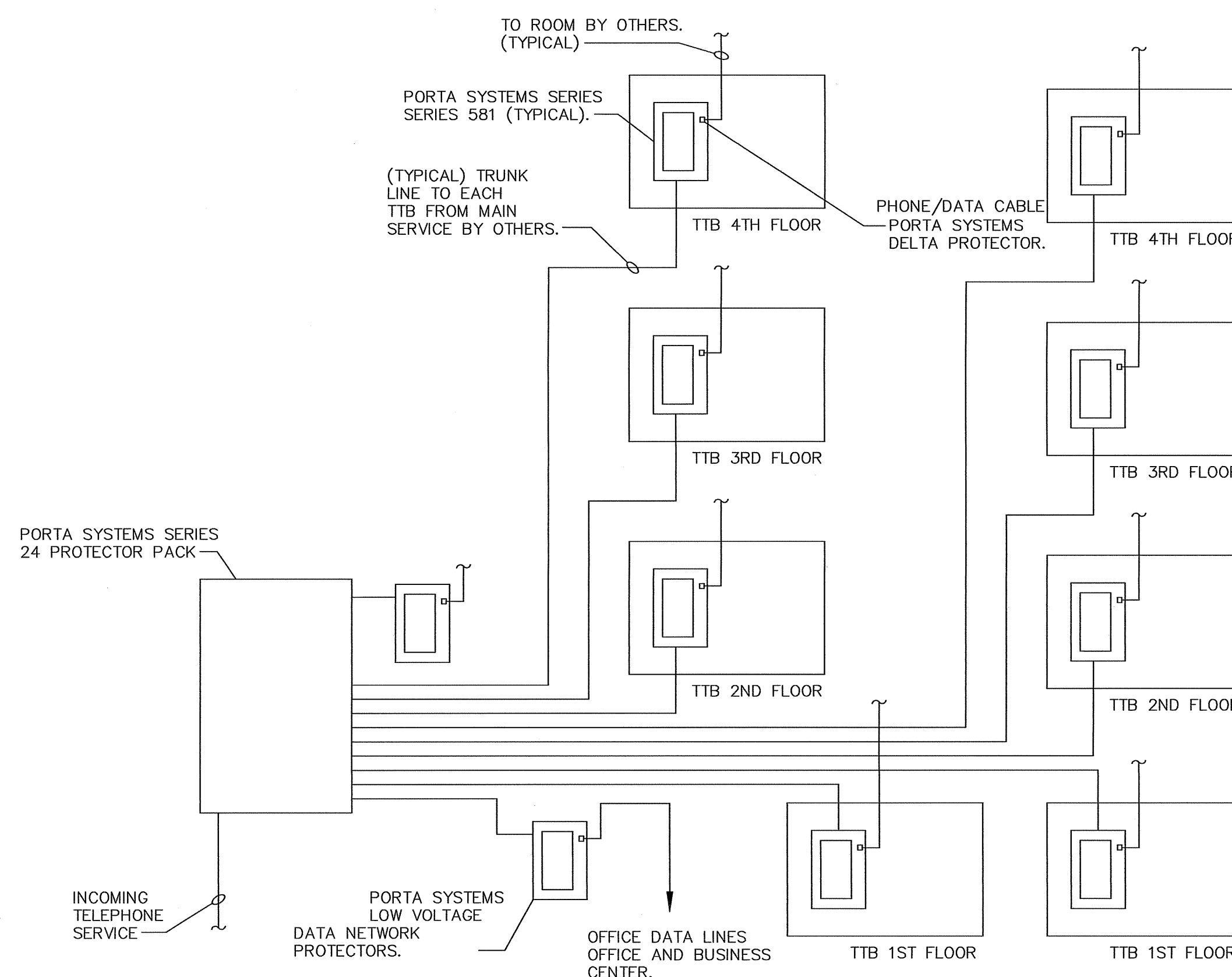
NOTE:
1. CONTRACTOR SHALL PROVIDE DECAL 1-1/2" x 2-1/2" WITH 3/16" LETTERING STATING THE ABOVE. DECAL SHALL BE LOCATED ON THE OUTSIDE OF ALL SWITCHBOARDS AND PANEL BOARDS IN OTHER THAN DWELLING OCCUPANCIES. DECAL SHALL BE RED AND YELLOW BACKGROUND WITH BLACK LETTERING WITH A CLEAR PLASTIC LAMINATE TOP COVER OVER DECAL.

FLASH PROTECTION DECAL
N.T.S.



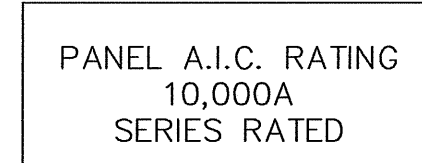
NOTES:
1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL PHENOLIC NOMENCLATURE NAME PLATES ON ALL ELECTRICAL PANELS. NAME PLATES SHALL BE 1" x 4" WITH 1/2" LETTERING, ENGRAVED LAMINATED PLATE, FURNISHED WHITE LETTERING ON A BLACK BACKGROUND.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SYSTEM CONDUCTOR IDENTIFICATION DECAL ON EACH PANEL. DECAL SHALL BE 2" x 3" WITH 1/8" LETTERING AS SHOWN ABOVE. DECAL SHALL BE WHITE BACKGROUND WITH BLACK LETTERING WITH A CLEAR PLASTIC LAMINATE TOP COVER OVER DECAL.

SYSTEM CONDUCTOR IDENTIFICATION AND PANEL NOMENCLATURE
N.T.S.



DATA/PHONE PROTECTION NOTES:
1. THE DESIGN IS GENERIC IN NATURE. THE EXACT QUANTITY OF COMPONENTS PER EACH SITE SHALL VARY FROM SITE TO SITE.
2. ALL OF THE COMPONENTS MAY BE INSTALLED IN THE SAME ROOM WITH THE APPROVAL OF THE OWNER.

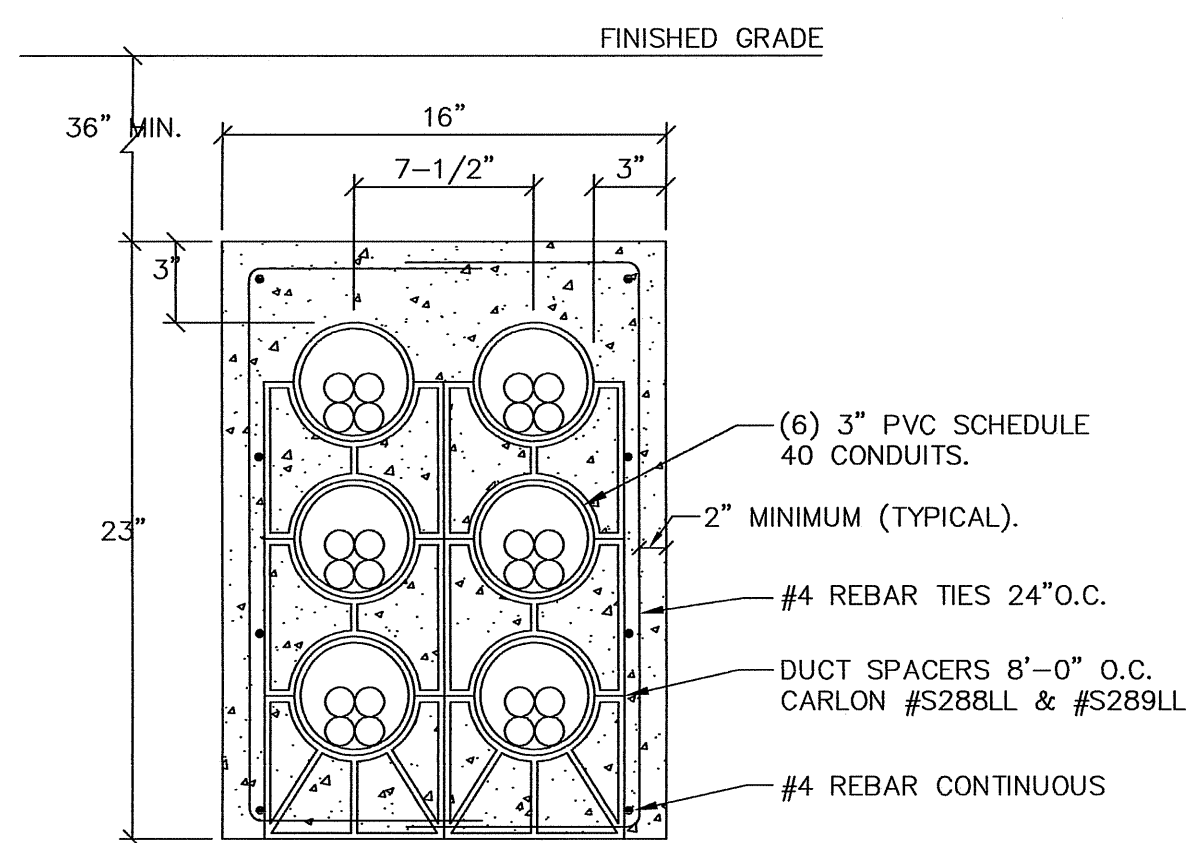
DATA/PHONE PROTECTION SYSTEM
N.T.S.



(A.I.C. DECAL - EXAMPLE)

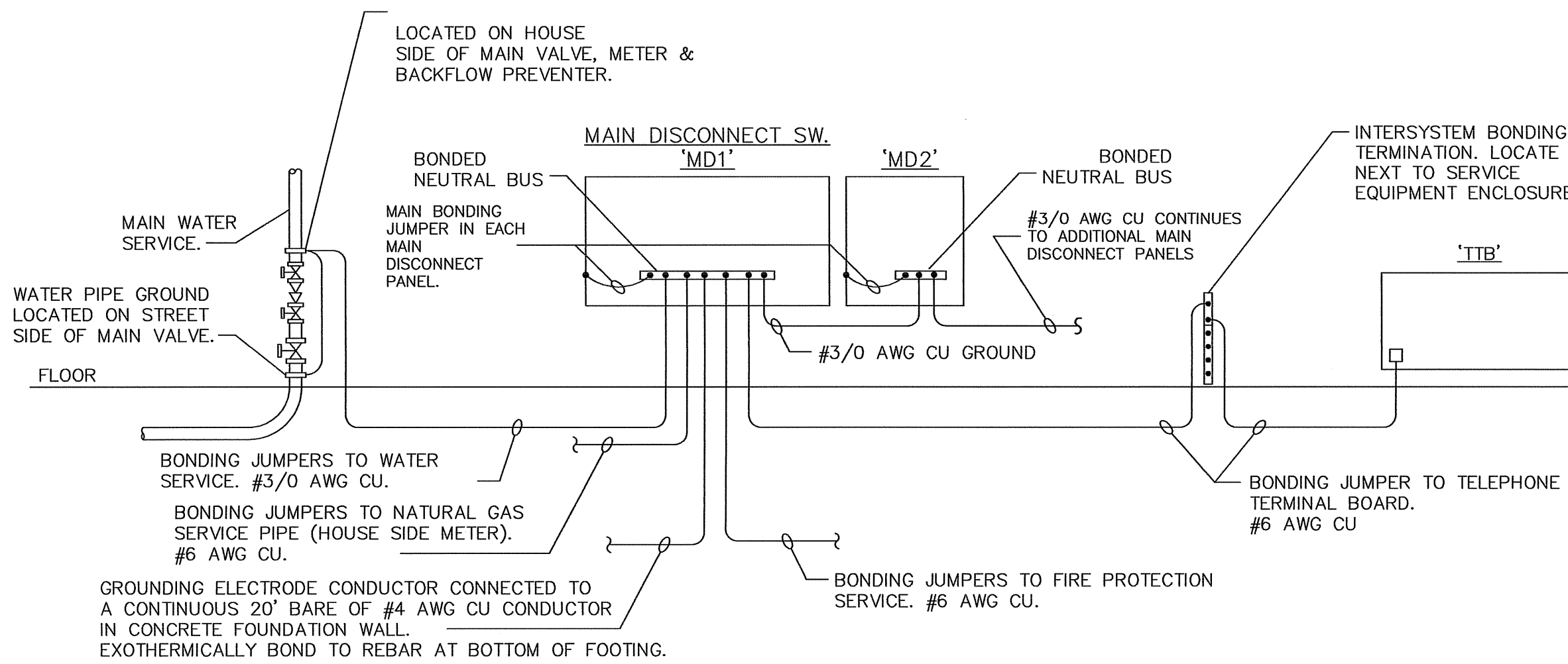
NOTE:
1. CONTRACTOR SHALL PROVIDE DECAL 1-1/2" x 2-1/2" WITH 3/16" LETTERING STATING THE A.I.C. RATING OF EACH PANEL AND WHETHER THE PANEL IS FULLY OR SERIES RATED. THIS DECAL SHALL BE LOCATED ON THE INSIDE OF PANEL DOOR. DECAL SHALL BE WHITE BACKGROUND WITH BLACK LETTERING WITH A CLEAR PLASTIC LAMINATE TOP COVER OVER DECAL.

A.I.C. IDENTIFICATION DECAL
N.T.S.

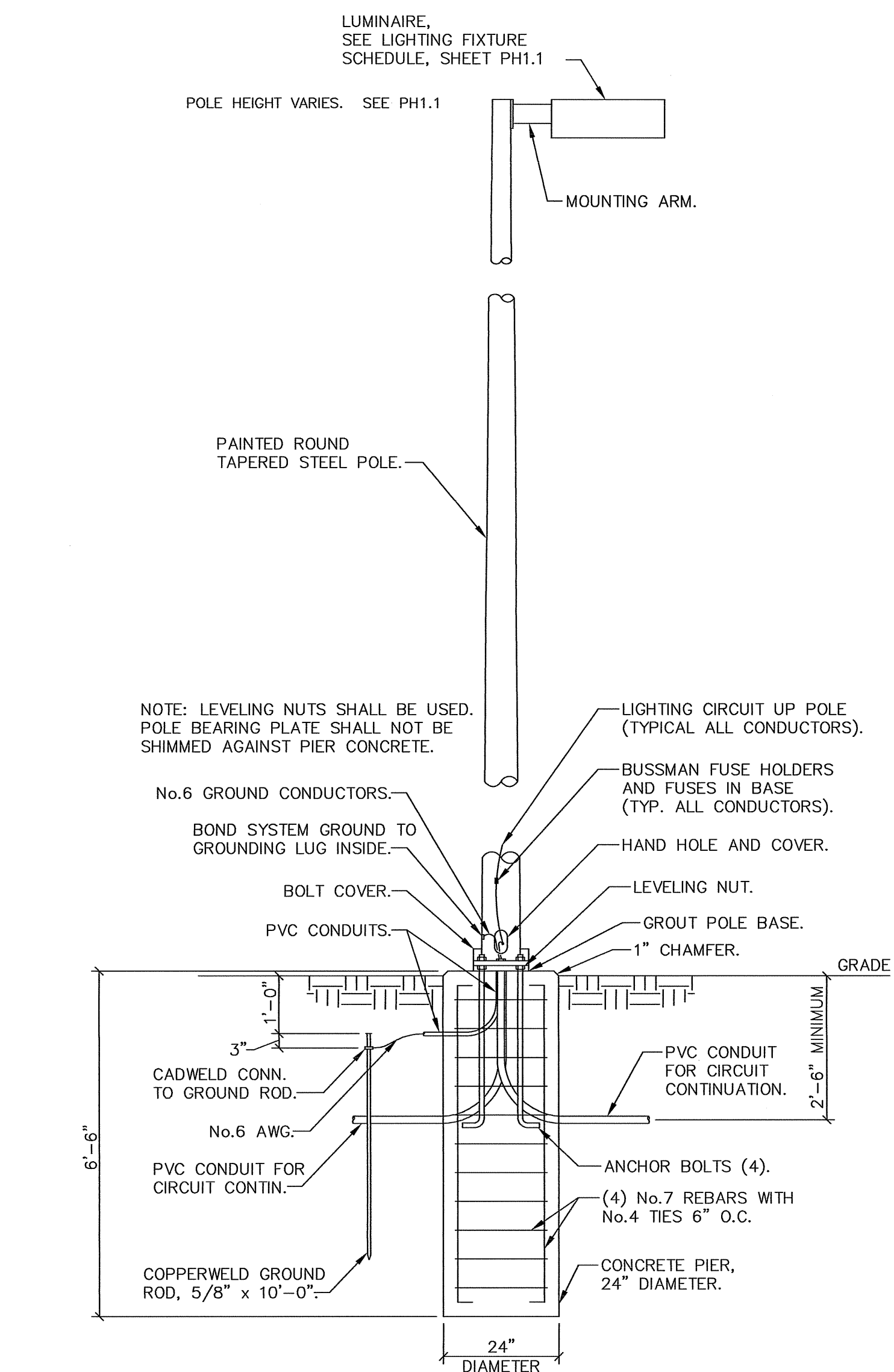


DUCT BANK NOTES:
1. CONDUITS MUST BE ANCHORED IN PLACE AT 8' INTERVALS BY SUITABLE MEANS TO KEEP CONDUITS FROM FLOATING IN CONCRETE AFTER POURING.
2. ALL MATERIALS REQUIRED FOR CONCRETE ENCASMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
3. INSTALL MARKER TAPE 1'-0" FROM THE TOP OF THE DUCT BANK FOR THE ENTIRE LENGTH OF THE BANK.
4. WHERE DUCT BANK RUNS UNDER SLAB, DEPTH SHALL BE MEASURED FROM UNDER SLAB.

TYPICAL SECONDARY DUCT BANK SECTION
N.T.S.

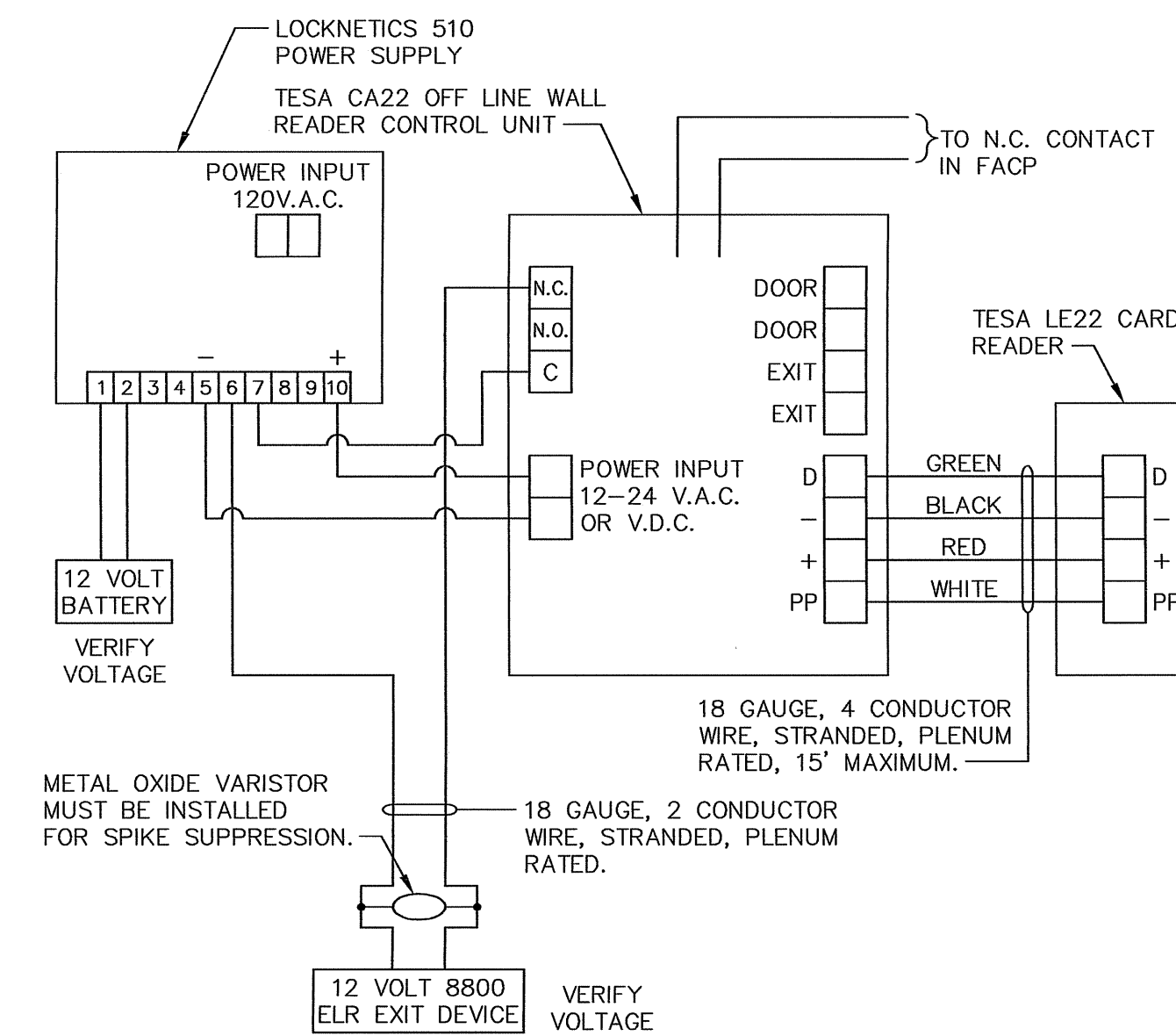


SYSTEM GROUNDING DETAIL
N.T.S.



POLE BASE DETAIL - FIXTURE FOR USE IN ISLANDS
FIXTURE TYPE 'B' & 'F'

EC SHALL VERIFY MANUFACTURER AND MODEL. CONNECT PER MANUFACTURER'S REQUIREMENTS.



NOTES:
1. FIELD VERIFY ALL REQUIREMENTS WITH EQUIPMENT SUPPLIER.

CARD READER WIRING DIAGRAM
N.T.S.

APPROVAL

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Pueblo, CO

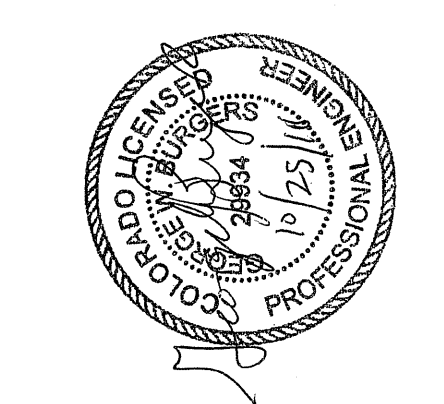


PROJ. MGR.
208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

ARCHITECT:
LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

GEORGE W. BURGERS, P.E.
THE ELECTRICAL ENGINEER
449 W. LOOKOUT DR. PUEBLO WEST, CO 81007
PH: 719-647-1997



Electrical Details

PROJECT NO.
W16006
DRAWN BY:
jb
CHECKED BY:
GWB
DATE:
10.21.2016
SHEET:

E1.4

PANEL SCHEDULE: A		1ST FLOOR					
225 AMPS	120/208 VOLT, 3 PH. 4 W. MLO		MOUNT: SURFACE				
CCT	LOAD	P AMPS	A B C AMPS P	LOAD	CCT		
1	SALES OFFICE REC	1	20	4.5112	2	STORAGE FREEZER	2
3	GM OFFICE REC	1	20		2	CUPBOARD FREEZER	4
5	CUPBD REC	1	20		2	2	8
7	RR REC	1	20	3 1.10	6 15.9	20 GFI	1
9	EXERCISE LIS	1	20		9 1.10	20 GFI	1
11	CUPBOARD FRIG	1	20		3.7110	20 GFI	1
13	COFFEE JKW	2	20	14.4110		20 GFI	1
15	CUPBOARD	1	20		14.4212	20 GFI	1
17	CUPBD MICROWAVE	1	20		12.0121	GFI	1
19	REC RM 112	1	20	3 2.12		30	2
21	ENR	1	20		6 12.12	GFI	1
23	EX MACHINE TYS	1	20		10 1.15	20	1
25	EXERCISE EQUIP	1	20	12 1.6		20	1
27	EXERCISE RM REC	1	20		7.5 1.6	20	1
29	EXERCISE HVAC AC2	2	30		20 1.3	20	1
31	MCA=27.5	1	20			20	1
33	GUEST DRYER	2	30		21.217.5	20	1
35	GFI	1	20			20	1
37	GUEST DRYER	2	30		21.21		36
39	MANG OFF REC	1	20		21.21		40
41	MANG OFF REC	1	20				42
ALL HVAC CIRCUIT BREAKERS SHALL BE HACR RATED				150.8	154.1	131.0	

PANEL SCHEDULE: L		1ST FLOOR					
225 AMPS	120/208 VOLT, 3 PH. 4 W. MLO		MOUNT: SURFACE				
CCT	LOAD	P AMPS	A B C AMPS P	LOAD	CCT		
1		1	20	17.918.3	2	(PER PROTOTYPE)	2
3	WASHER	3	40	17.918.3	20	3	DRYER
5	3 KW	1	20	17.918.3	20	3	DRYER
7	LAUNDRY REC	1	20	10.918.3			8
9	COFFEE	1	20		6.218.3	20	3
11	BK RM REC	1	20		12.918.3	20	3
13	MICROWAVE	1	20	10.8			14
15	DISPOSAL	1	20		7.51		16
17	FRIG	1	20		10 1		18
19	ICE	1	20		10 16.9		20
21	ICE	2	20			20	1
23		1	20		10 11.9	20	1
25	WORK AREA REC	1	20	7.51 3		20	1
27	WORK AREA REC	1	20		6 14.5	15	1
29	WORK AREA REC	1	20		6 11.5	20	1
31	WORK AREA REC	1	20	6 1 3		20	1
33	REC DESK REC	1	20		6 1 6	20	1
35	REC DESK REC	1	20		6 1 10	20	1
37	OFFICE REC	1	20	6 17.5		40	3
39	OFFICE REC	1	20	3 17.5		40	3
41	SECURITY	1	20		6 17.5	40	3
ALL HVAC CIRCUIT BREAKERS SHALL BE HACR RATED				116.9	107.7	115.1	

PANEL SCHEDULE: DP1		1ST FLOOR					
400 AMPS	120/208 VOLT, 3 PH. 4 W. MLO		MOUNT: SURFACE				
CCT	LOAD	P AMPS	A B C AMPS P	LOAD	CCT		
1	GUEST RM 123	2	90		70	2	GUEST RM 130
3	GUEST RM 124	2	90		70	2	GUEST RM 132
5	GUEST RM 125	2	90		70	2	GUEST RM 133
7	GUEST RM 126	2	90		70	2	GUEST RM 134
9	GUEST RM 127	2	90		70	2	GUEST RM 135
11	GUEST RM 128	2	90		70	2	GUEST RM 136
13	GUEST RM 129	2	90		70	2	GUEST RM 137
15	GUEST RM 130	2	90		70	2	GUEST RM 138
17	GUEST RM 131	2	90		70	2	GUEST RM 139
19	GUEST RM 132	2	90		70	2	GUEST RM 140
21	GUEST RM 133	2	90		70	2	GUEST RM 141
23	GUEST RM 134	2	90		70	2	GUEST RM 142
25	GUEST RM 135	2	90		70	2	GUEST RM 143
27	GUEST RM 136	2	90		70	2	GUEST RM 144
29	GUEST RM 137	2	90		70	2	GUEST RM 145
31	0.5A	2	15	10.3		15	2
33	FC CORR NO.	2	15		10.3	15	2
35	FC CORR NO.	2	15		10.3	15	2
37	FC CORR NO.	2	15		10.3	15	2
39	FC CORR NO.	2	15		10.3	15	2
41	FC CORR NO.	2	15		10.3	15	2
ALL HVAC CIRCUIT BREAKERS SHALL BE HACR RATED							

PANEL SCHEDULE: DP5		1ST FLOOR					
800 AMPS	120/208 VOLT, 3 PH. 4 W. MLO		MOUNT: SURFACE				
CCT	LOAD	P AMPS	A B C AMPS P	LOAD	CCT		
1	PANEL A	3	225	150.8		3	
3	PANEL B	3	225	154.1		3	
5	PANEL C	3	225	131.0		3	
7	PANEL D	3	150	69.5		3	
9	PANEL E	3	150	96.9		3	
11	PANEL F	3	150	38.9		3	
13	PANEL G	3	150	35.2		3	
15	PANEL H	3	200	116.9		3	
17	PANEL I	3	200	107.7		3	
19	PANEL J	3	200	115.1		3	
21	PANEL K	3	200			3	
23	PANEL L	3	200			3	
25	PANEL M	3	200			3	
27	PANEL N	3	200			3	
29	PANEL O	3	200			3	
31	PANEL P	3	200			3	
33	PANEL Q	3	200			3	
35	PANEL R	3	200			3	
37	PANEL S	3	200			3	
39	PANEL T	3	200			3	
ALL HVAC CIRCUIT BREAKERS SHALL BE HACR RATED				546	553.4	537.1	

PANEL SCHEDULE: B		1ST FLOOR					
400 AMPS	120/208 VOLT, 3 PH. 4 W. MLO		MOUNT: SURFACE				
CCT	LOAD	P AMPS	A B C AMPS P	LOAD	CCT		
1	SFARE	1	20	11.5		20	1
3	SFARE	1	20		1.3	20	1
5	STAR N HEAT CUH	2	20		14.4110	20	1
7	3 KW	1	20		14.4110	20	1
9	5 EXT HEAT	2	20		14.413	20	1
11	3 KW	1	20		14.413	20	1
13	SFARE	1	20		14.413	20	1
15	SFARE	1	20		14.6	15	2
17	VEST HEAT	2	20		19.614.6	HACR	1
19	4 KW	1	20		19.611.5	20	1
21	ELEC RM LITS	1	20		19.611.5	20	2
23	RR BUS. QNTR LITS	1	20		5 14.4	8.614.4	HACR
25	FC 3	2	60		44.9 4.6	15	2
27	MCA=49	1	20		44.9 4.6	HACR	1
29	FC 4	2	30		22.8 5.9	15	2
31	MCA=25	1	20		22.8 5.9	HACR	1
33	FC 5	2	30		27 10.8	20	2
35	MCA=30	1	20		27 10.8	HACR	1
37	FC 6	2	30		39 1	20	1
39	MCA=49	1	20		39 1	HACR	1
41	CORRIDOR REC	1	20		9 1 9	20	1
ALL HVAC CIRCUIT BREAKERS SHALL BE HACR RATED				175.8	170.3	173.5	

PANEL SCHEDULE: F2		2ND FLOOR					
225 AMPS	120/208 VOLT, 3 PH. 4 W. MLO		MOUNT: SURFACE				
CCT	LOAD	P AMPS	A B C AMPS P	LOAD	CCT		
1	CORRIDOR LITS	1	20	11.8112		20	1
3	CORRIDOR LITS	1	20	11.8112		20	1
5	CORRIDOR LITS	1	20	11.8112		20	1
7	CORRIDOR LITS	1	20	12.213.6		20	1
9	CORRIDOR LITS	1	20	11.71		20	1
11	ACT 3.4 KW	1	20		16.910.3	20	2
13	PBX REC	1	20	6 1		15	2
15	PBX REC	1	20		6 14.8	15	2
17	PBX REC	1	20		6 14.8	15	2
19	PBX REC	1	20		6 10.3	15	2
21	PBX REC	1	20		6 10.3	15	2
23	PBX REC	1	20		10.3	15	2
25	PBX REC	1	20		10.3	15	2
27	PBX REC	1	20		10.3	15	2
29	PBX REC	1	20		10.3	15	2
31	GUEST RM 223	2	90		70	2	GUEST RM 224
33	GUEST RM 225	2	90		70	2	GUEST RM 226
35	GUEST RM 227	2	90		70	2	GUEST RM 228
37	GUEST RM 229	2	90		70	2	GUEST RM 230
39	GUEST RM 231	2	90		70	2	GUEST RM 232
41	GUEST RM 233	2	90		70	2	GUEST RM 234
ALL HVAC CIRCUIT BREAKERS SHALL BE HACR RATED							

PANEL SCHEDULE: DP2		2ND FLOOR					
600 AMPS	120/208 VOLT, 3 PH. 4 W. MLO		MOUNT: SURFACE				
CCT	LOAD	P AMPS	A B C AMPS P	LOAD	CCT		
1	GUEST RM 229	2	90		70	2	GUEST RM 230
3	GUEST RM 231	2	90		70	2	GUEST RM 232
5	GUEST RM 233	2	90		70	2	GUEST RM 234
7	GUEST RM 235	2	90		70	2	GUEST RM 236
9	GUEST RM 237	2	90		70	2	GUEST RM 238
11	GUEST RM 239	2	90		70	2	GUEST RM 240
13	GUEST RM 241	2	90		70	2	GUEST RM 242
15	GUEST RM 243	2	90		70	2	GUEST RM 244
17	GUEST RM 245	2	90		70	2	GUEST RM 246
19	GUEST RM 247	2	90		70	2	GUEST RM 248
21	GUEST RM 249	2	90		70	2	GUEST RM 250
23	GUEST RM 251	2	90		70	2	GUEST RM 252
25	GUEST RM 253	2	90		70	2	GUEST RM 254
27	GUEST RM 255	2	90		70	2	GUEST RM 256
29	GUEST RM 257	2	90		70	2	GUEST RM 258
31	GUEST RM 259	2	90		70	2	GUEST RM 260
33	GUEST RM 261	2	90		70	2	GUEST RM 262
35	GUEST RM 263	2	90		70	2	GUEST RM 264
37	GUEST RM 265	2	90		70	2	GUEST RM 266
39	PANEL F2	3	225		125 3		PANEL G2
41	PANEL F2	3	225		125 3		PANEL G2
ALL HVAC CIRCUIT BREAKERS SHALL BE HACR RATED							

PANEL SCHEDULE: MP		2ND FLOOR					
2500 AMP	120/208 VOLT, 3 PH. 4 W. MLO		MOUNT: SURFACE				
CCT	LOAD	P AMPS	A B C AMPS P	LOAD	CCT		
1	DIST. PNL DP1	3	400	237			

MINIMUM FEEDER AMPACITY CALCULATIONS. Table with columns: PANEL, LOADS, RATE, DEMAND, GR, HOUSE, DP1. Includes subtotals for kVA (DEMAND), TOTAL LOADS (KW), MIN. FEEDER CIRCUIT AMP, and OVERCURRENT PROTECTION SIZE.

MINIMUM FEEDER AMPACITY CALCULATIONS. Table with columns: PANEL, LOADS, RATE, DEMAND, F2, G2, DP2 (TOTAL). Includes subtotals for kVA (DEMAND), TOTAL LOADS (KW), MIN. FEEDER CIRCUIT AMP, and OVERCURRENT PROTECTION SIZE.

MINIMUM FEEDER AMPACITY CALCULATIONS. Table with columns: PANEL, LOADS, RATE, DEMAND, F3, DP3 (TOTAL). Includes subtotals for kVA (DEMAND), TOTAL LOADS (KW), MIN. FEEDER CIRCUIT AMP, and OVERCURRENT PROTECTION SIZE.

MINIMUM FEEDER AMPACITY CALCULATIONS GUEST ROOM LOADS PER GUEST ROOM. Large table with columns for various room types (SO STUDIO, DQ STUDIO, SK SUITE, etc.) and load types (GENERAL LIGHTING, KITCHEN CIRCUITS, etc.).

MINIMUM FEEDER AMPACITY CALCULATIONS. Table with columns: PANEL, LOADS, RATE, DEMAND, F4, DP4 (TOTAL). Includes subtotals for kVA (DEMAND), TOTAL LOADS (KW), MIN. FEEDER CIRCUIT AMP, and OVERCURRENT PROTECTION SIZE.

MINIMUM FEEDER AMPACITY CALCULATIONS. Table with columns: PANEL, LOADS, RATE, DEMAND, A, B, C, L, H, DP5. Includes subtotals for kVA (DEMAND), TOTAL LOADS (KW), MIN. FEEDER CIRCUIT AMP, and OVERCURRENT PROTECTION SIZE.

MINIMUM FEEDER AMPACITY CALCULATIONS GUEST ROOM LOADS PER GUEST ROOM. Large table with columns for various room types and load types. Includes a detailed table for GUEST ROOM (GR) LOADS at the bottom right.

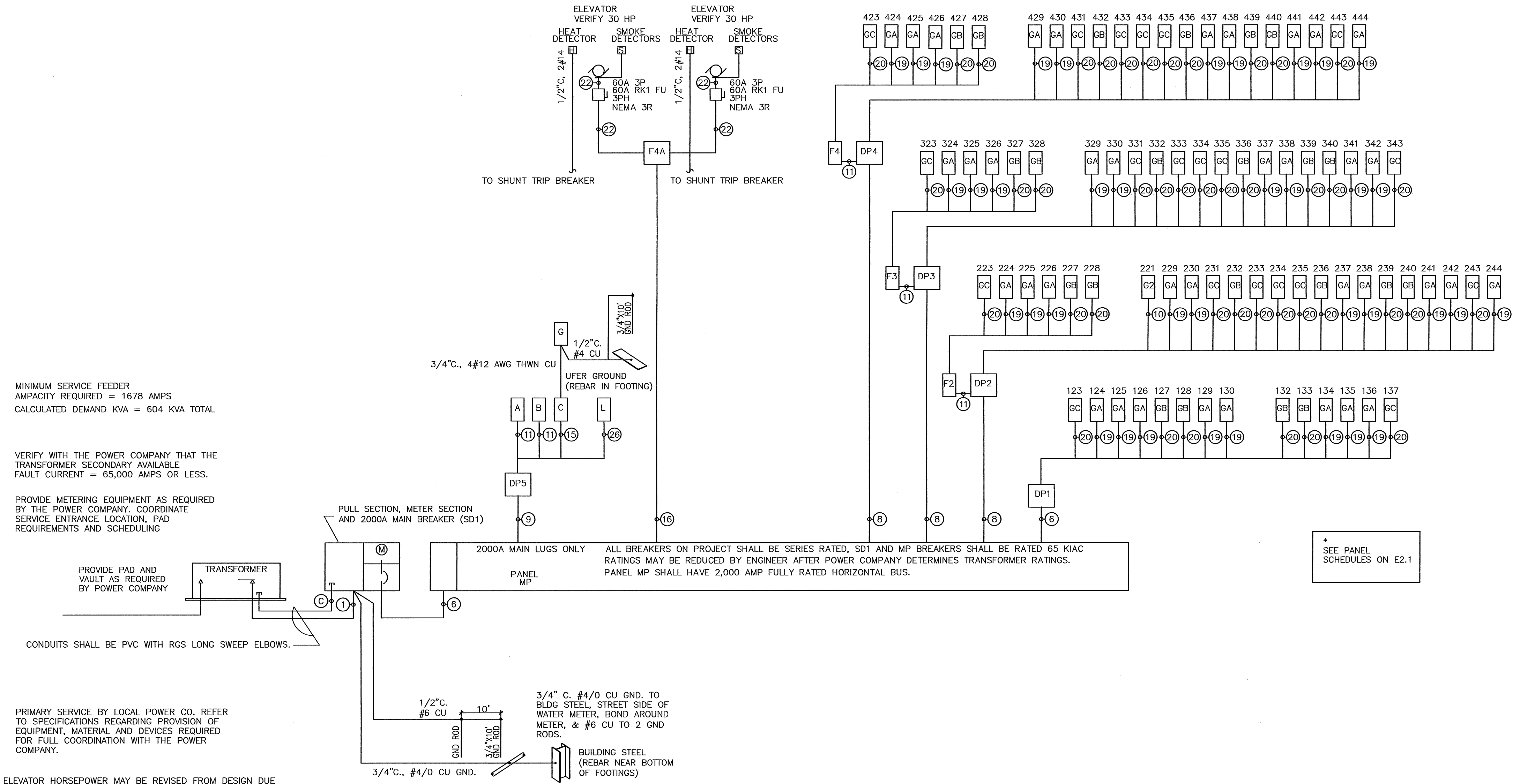
GUEST ROOM (GR) LOADS. Table with columns: BLDG TOTAL, TOTAL KW, # OF UNITS, DEMAND FACTOR, DEMAND KW, DEMAND AMPS.

MINIMUM FEEDER AMPACITY CALCULATIONS. Table with columns: PANEL, LOADS, RATE, DEMAND, DP1, DP5, DP2, DP3, DP4, F4A, TOT. BLDG MP. Includes subtotals for kVA (DEMAND), TOTAL LOADS (KW), MIN. FEEDER CIRCUIT AMP, and OVERCURRENT PROTECTION SIZE.

- NOTES: 1. E.C. TO PAY FOR ALL SERVICE CHARGES. 2. 7" CONCRETE PAD OR VAULT AS REQUIRED BY POWER CO. SHALL BE PROVIDED BY E.C. 3. METER & TRANSFORMER SUPPLIED BY LOCAL POWER CO. PROVIDE SERVICE EQUIPMENT, MATERIAL & LABOR REQUIRED TO MEET POWER COMPANY REQUIREMENTS. 4. GROUND PER N.E.C. BY CONNECTING THE SERVICE ENTRANCE GROUND TO THE WATER SUPPLY PIPING, AS REQUIRED, BUILDING STEEL VEA REBAR IN THE FOUNDATION USING #4/0 CU AND #6 CU TO (2) 10'X13/4" GROUND RODS SPACED 10' MINIMUM. 5. BRACE MAIN PANELS AT FAULT CURRENT, SUB PANELS FOR 50 KA MIN. PROVIDE SERIES RATED BREAKERS. BREAKERS RATED AT BREAKER PANELS TO BE RATED AT 65 KA MINIMUM. 6. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT DEPENDING ON LOCATION. NON-METALLIC IN AREAS OUTSIDE OF THE ASSEMBLY AREAS AND METALLIC IN THE ASSEMBLY AREAS (POOL AND COMMON AREA SEPARATED BY THE TWO HOUR FIRE BARRIERS). 7. LABEL MAIN DISCONNECTS: 'SERVICE DISCONNECT' AND INCLUDE THE NUMBER. 8. SYSTEM SHALL BE GROUNDED AT MAIN PANELS, NOT THE TRANSFORMER. 9. SERVICE ENTRANCE SHALL MEET REQUIREMENTS OF POWER COMPANY. 10. FULL SIZE NEUTRALS ARE SHOWN. REDUCED SIZE NEUTRALS MAY BE USED. 11. EQUIVALENT AMPACITY WIRE SIZES MAY BE USED. CONTACT ENGINEER WITH PROPOSED EQUALS, HYDRAULIC ACTUATED LUGS SHALL BE USED WITH ALUMINUM CONDUCTORS. 12. ELECTRICAL CONTRACTOR SHALL SUPPLY & INSTALL THE-IN TO MAIN BANK OF POWER COMPANY ALL CONDUIT REQUIRED AND ANY SLAB BOX AND/OR PAD REQUIRED BY POWER COMPANY. 13. ALL GROUNDING SHALL BE PER NEC 250. 14. VERIFY WITH POWER COMPANY TRANSFORMER SIZE AND FAULT CURRENT AVAILABILITY. EQUIPMENT RATINGS SHALL BE EQUAL TO APPROXIMATELY 125% OF AVAILABLE FAULT CURRENT. CONTACT ENGINEER WHEN INFORMATION IS DETERMINED. 15. COORDINATE WITH THE FRAMING CONTRACTOR AND PROVIDE STUD WIDTH 2X FIRE BACKING SUPPORT FOR ALL MOUNTING SCREWS FOR ALL 800 & 1000 AMP PANELS (MP SERIES AND M05) IN THE MAIN ELECTRIC ROOM.

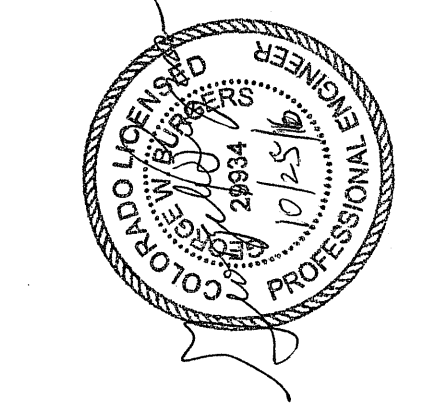
- FEEDER SCHEDULE (OR APPROVED EQUAL) CONDUCTORS SHALL BE INSTALLED ACCORDING TO ANY WIRING METHOD ACCEPTABLE TO NATIONAL AND LOCAL CODES AND ORDINANCES AND SHALL HAVE AHJ APPROVAL. COORDINATE WITH ENGINEER AND CM. ONE TIME LUGS SHALL BE USED WITH ALUMINUM CONDUCTOR UNLESS TYPE AA 8000 SERIES 2 ALUMINUM IS USED. WHERE MC CABLE IS USED IT SHALL BE ACCESSIBLE. USE RACEWAY FROM PANELS TO ACCESSIBLE AREA TO PROVIDE RACEWAY IN INACCESSIBLE WALLS. PROVIDE TUMESCENT FIRE STOP AT ALL PENETRATIONS OF FIRE BARRIERS. WHERE SEVERAL CABLES PASS THROUGH A FIRE BARRIER IN THE SAME LOCATION, PROVIDE FRAMED AND GWB COVERED OPENINGS WITH TUMESCENT FIRE STOP AROUND AND BETWEEN ALL CABLES. (1) 2,000 AMP BUS (2) 2,000 A. (6) 3" 3#500, 1#350 KCMIL XHHW AL, OR BUS (3) 175 A. 4#4/0 AWG AL W/GND MC CABLE (4) 135 A. 1-1/4" 3#1 AWG CU (EMT, IMT OR RGS) (5) 150 A. 1-1/2" 3#1/0 AWG THWN CU (EMT, IMC OR RGS) (6) 300 A. 4#500 KCMIL W/GND MC CABLE (7) 400 A. TWO 2-1/2" 4#250 KCMIL XHHW2 AL (EMT, IMC OR RGS) (8) 800 A. THREE 3" 4#400 KCMIL XHHW2 AL W/GND (IF PVC) OR (NO GND & EMT, IMC OR RGS) (9) 600 A. THREE 4#500 KCMIL AL W/ 2/0 AWG AL GND MC CABLE (10) 800 A. THREE 4#400 KCMIL XHHW2 AL AND 1#5/0 AWG AL GND MC CABLE (11) 125 A. 4#2/0 AWG AL W/ #4 AWG AL GND MC CABLE (12) 225 A. 4#300 KCMIL AL W/ #1 AWG AL GND MC CABLE (13) 1,000 A. FOUR 3" 4#350 KCMIL XHHW2 AL (EMT, IMC, RGS AS REQUIRED BY ROUTING) (14) 1,000 A. FOUR 3" PVC C. 4#350 KCMIL XHHW2 AL W/ 1#3/0 AWG AL GND (15) 1,000 A. FOUR 4#350 KCMIL AL W/GND MC CABLE (16) 150 A. 4#3/0 AWG AL W/ #4 AWG AL GND MC CABLE (17) 400 A. THREE 4#250 KCMIL AL W/ #1 AWG AL GND MC CABLE (18) FIRE PUMP CIRCUITRY TO BE DETERMINED ONLY IF FIRE PUMP IS REQUIRED. (19) 500 A. TWO 4#350 KCMIL AL W/GND MC CABLE (20) 70 A. 3#4 AWG AL W/ #3 AWG AL GND MC CABLE OR 3#6 AWG CU W/ #8 AWG CU GND MC CABLE (21) 90 A. 3#1 AWG AL W/ #1 AWG AL GND MC CABLE OR 3#2 AWG CU W/ #8 AWG CU GND MC CABLE (22) 200 A. 3#250 KCMIL AL W/1#4 AWG AL GND MC CABLE (23) 60 A. 4#6 AWG CU W/ #10 AWG CU MC CABLE (24) 90 A. 1-1/4" 3#1 AWG XHHW2 AL W/ 1#6 AL GND (EMT, IMC OR RGS) (25) 200 A. 2-1/2" 3#250 KCMIL AL W/1#4 AWG AL GND (EMT, IMC, RGS) (26) 150 A. 2" 3#1 AWG AL (EMT, IMC OR RGS) OR MC CABLE (27) NOT USED (28) TWO 4" CONDUIT ONLY, CAPPED BOTH ENDS. (29) MULTIPLE CIRCUITS AS REQUIRED BY THE CONNECTED PANELS (30) #3/0 AWG CU GROUND (31) 2" CONDUIT ONLY, PLUGGED BOTH ENDS, W/ PULL CORD (32) 2" CONDUIT ONLY, PLUGGED BOTH ENDS, TERMINATES IN GRADE BOX. (33) ONE 3" CONDUIT ONLY, PLUGGED BOTH ENDS, TERMINATES IN GRADE BOX.

MINIMUM FEEDER CALCULATIONS SCALE: NO SCALE



RISER DIAGRAM SCALE: NOT TO SCALE

Vertical sidebar containing project information: PROJECT NO. W16006, DRAWN BY: jb, CHECKED BY: GWB, DATE: 10.21.2016, SHEET: E2.2. Includes logos for CANDLEWOOD SUITES, PRO GROUP INC., and GEORGE W. BURGERS, P.E. THE ELECTRICAL ENGINEER.



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ELECTRICAL NOTES

ALL NOTES ON E1.1, E1.2, E1.3 & E1.4 APPLY.

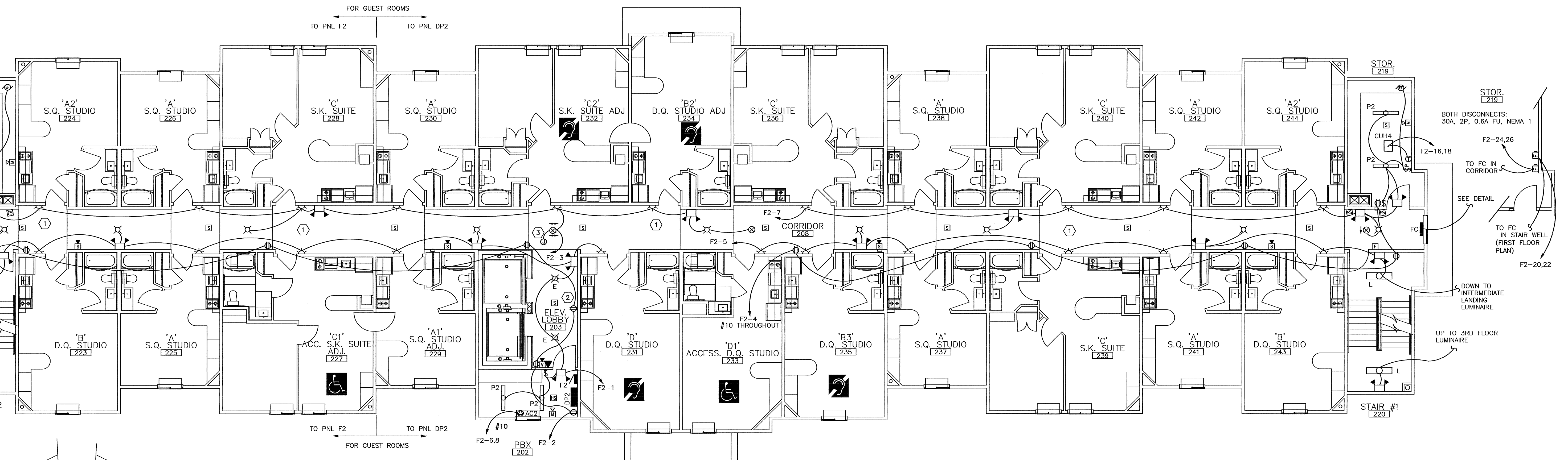
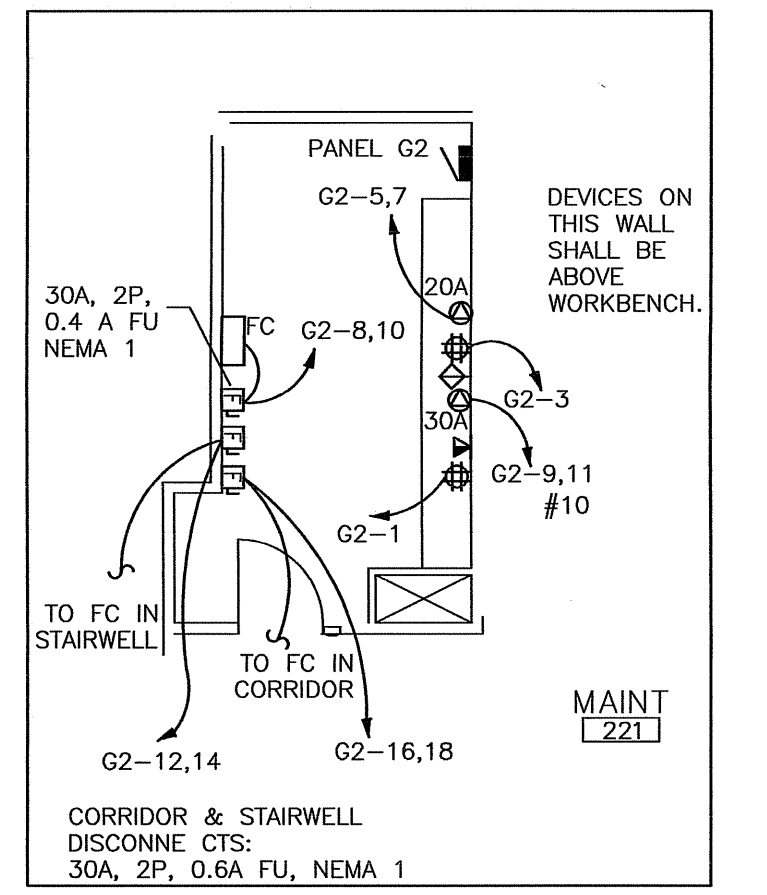
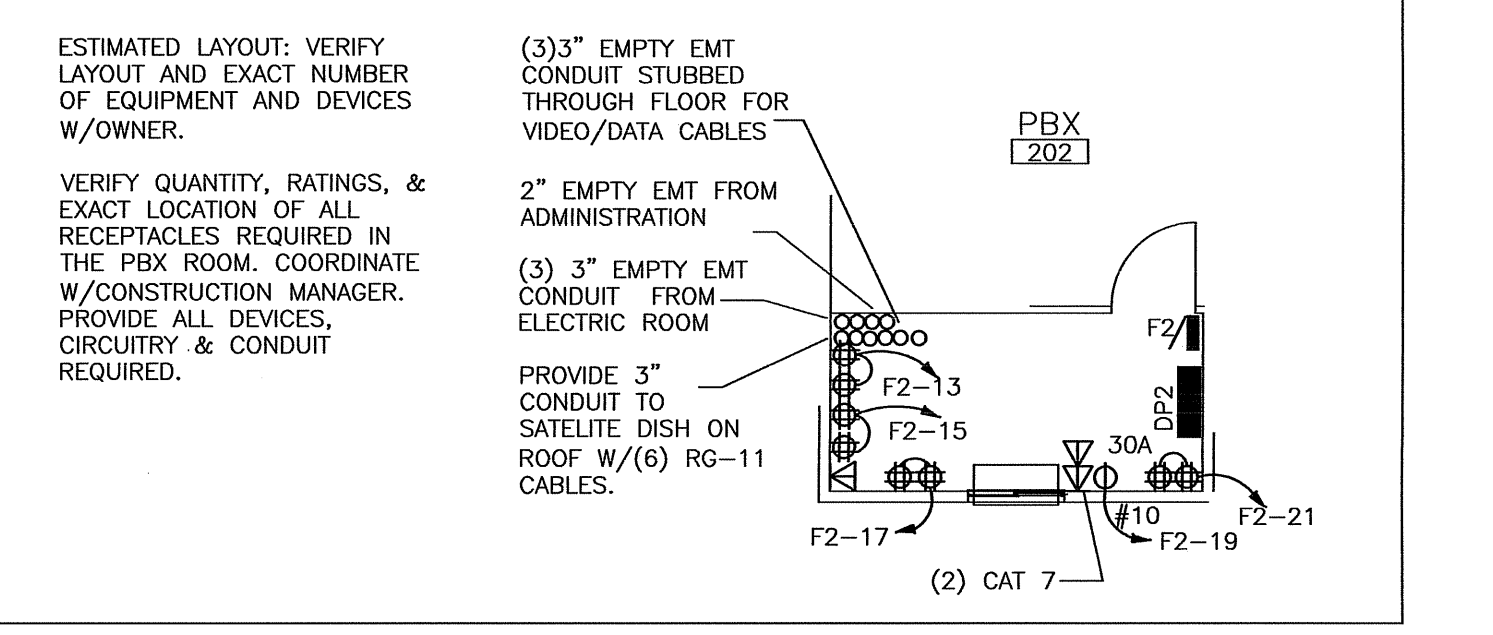
1. TYPES "K" CEILING SURFACE LUMINAIRE IN CORRIDOR. TYPE "CS" SCONCE IN CORRIDORS. PROVIDE RELAY TO RECALL ELEVATORS.
2. CEILING MOUNTED ELEVATOR SIGN.
3. SEE DOOR SECURITY DETAIL E1.3
4. REFER TO MECHANICAL EQUIPMENT SCHEDULES ON MECHANICAL DRAWINGS TO DETERMINE WHICH EQUIPMENT HAS SWITCHES FURNISHED BY OTHERS. PROVIDE ALL ADDITIONAL SWITCHES NECESSARY TO EQUIPMENT. LOCATE EQUIPMENT PER MECHANICAL DRAWINGS.
5. WIRELESS AIR PORT (WAP) IN SPACE ABOVE ACCESSIBLE CEILING. REFER TO GENERAL NOTES E1.2 & DETAIL E1.3. VERIFY SPACING, NUMBER OF DEVICES & LOCATIONS WITH VENDOR. PROVIDE NECESSARY DEVICES AND MATERIAL. CONNECTION CAN SHARE ACCESSIBLE SPACE WITH OTHER TRADES. COORDINATE WITH GENERAL CONTRACTOR. VERIFY CABLE TYPE W/VENDOR. PROVIDE CAT 6 CABLE UNLESS OTHERWISE REQUIRED AND ONLY IF APPROVED IN WRITING BY OWNER. OWNER REQUIRES SPACING OF NOT MORE THAN 50' BETWEEN WAP LOCATIONS.
6. TSTATS, TIME CLOCKS & CONTROL CIRCUITRY FOR HVAC CONTROL PROVIDED BY HVAC CONTRACTOR, WITH THIS EXCEPTION - THE ELECTRIC DUCT HEATERS (ELECTRIC COILS) SHALL HAVE THE CONTROL WIRING BY THE ELECTRICAL CONTRACTOR.

EXIT SIGNS

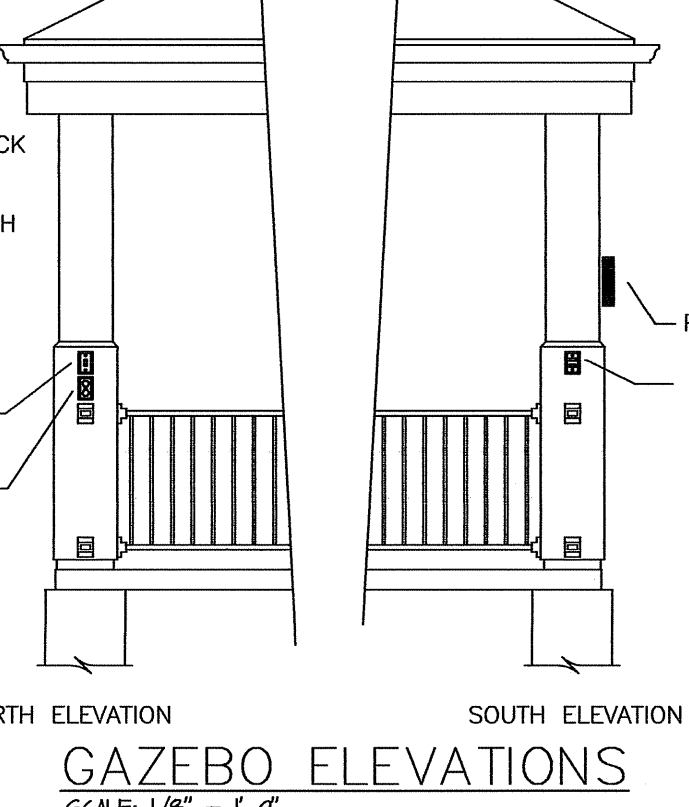
FOR ALL EXIT WAYS: WHERE AN UPPER LEVEL EXIT SIGN IS INDICATED THERE SHALL ALSO BE PROVIDED A LOWER LEVEL EXIT SIGN. ALL EXIT SIGNS SHALL CONTAIN A BATTERY PACK.

UPPER LEVEL SIGN

LOWER LEVEL SIGN. CONNECT CIRCUIT TO THE UPPER EXIT SIGN. BOTTOM OF SIGN SHALL BE BETWEEN 10" AND 12" FROM THE FLOOR SIGN SHALL HAVE A DIRECTIONAL ARROW POINTING TO THE EXITWAY.



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



LABEL THE TWO CIRCUIT BREAKERS AS "SERVICE DISCONNECT 1" AND "SERVICE DISCONNECT 2". PROVIDE TWO 1/2"X8" COPPERCLAD GROUND RODS AT NORTHEAST AND SOUTHWEST CORNERS OF THE GAZEBO. EXOTHERMICALLY BOND WITH #10 AWG CU AND BOND THE GROUND TO NEUTRAL OF PANEL G AS WELL AS #4 AWG CU TO THE REBAR (UFER GROUND) OF THE FOUNDATIONS OF THE GAZEBO. REFER TO AC1.1 FOR LOCATION OF GAZEBO.

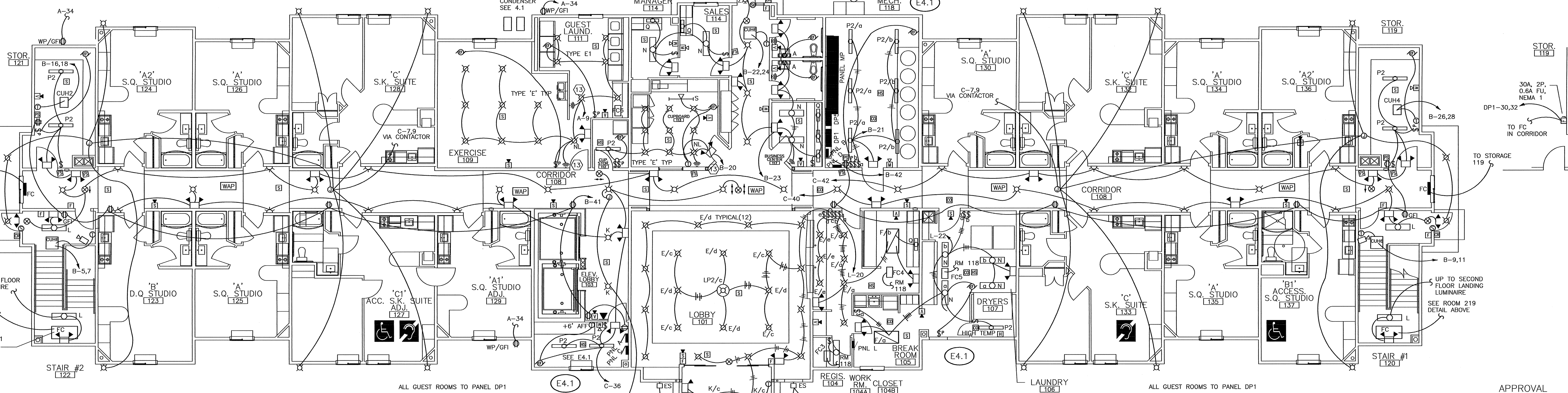
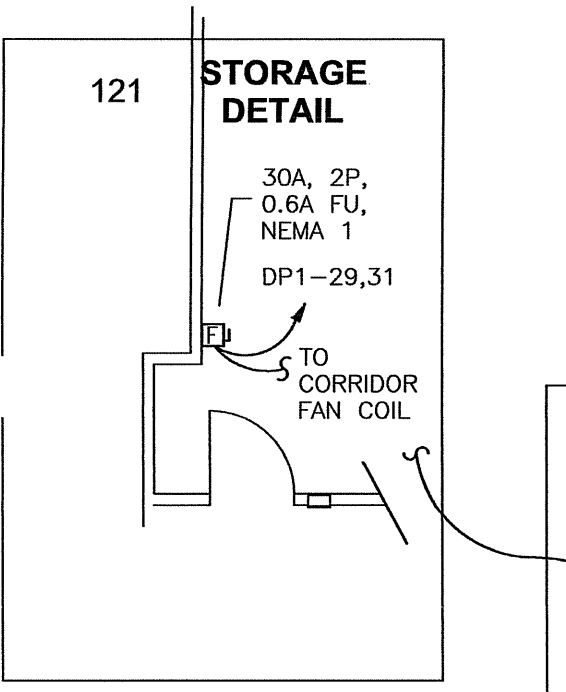
GAZEBO PLAN
SCALE: 1/8" = 1'-0"

CARBON MONOXIDE DETECTION SHALL BE PROVIDED ON THE CEILING OF THE ELEC/MECH ROOM 118, THE DRYER ROOM 107, THE LAUNDRY ROOM 106, THE BREAK ROOM 105 AND THREE IN THE CORRIDOR 108. THE DETECTORS SHALL BE MOUNTED IN THE CORRIDOR BETWEEN THE DOORS OF THE ROOMS 118 AND 106 AND THE ENTRY DOOR OF ANY GUEST ROOM. THE DETECTORS SHALL BE LISTED AS COMPLYING WITH UL 2705. THEY SHALL BE INSTALLED AND CONNECTED AS REQUIRED BY THE MANUFACTURER'S DIRECTIONS.

ALL COMMON AREA CARBON MONOXIDE (CO) DETECTORS SHALL BE CONNECTED TO A CONTROL PANEL. THE CONTROL PANEL SHALL BE THE FACP IF IT IS RATED AND CAPABLE OF MONITORING, PROVIDING THE LOCATION OF THE DEVICE IN ALARM AND PROVIDING A WARNING ALARM WHEN ANY COMMON AREA DETECTOR DETECTS CARBON MONOXIDE. PROVIDE A SEPARATE CO CONTROL PANEL IF THE FACP CANNOT PERFORM THESE FUNCTIONS.

ALL LUMINAIRE MOUNTED EXTERIOR OF THE BUILDING SHALL BE PEC CONTROLLED FOR DUSK TO DAWN OPERATION WITH ELECTRONIC ASTRONOMIC TIME CLOCK CONTROL PREVENTING OPERATION FROM 1 HOUR AFTER DAWN UNTIL ONE HOUR PRIOR TO SUNSET.

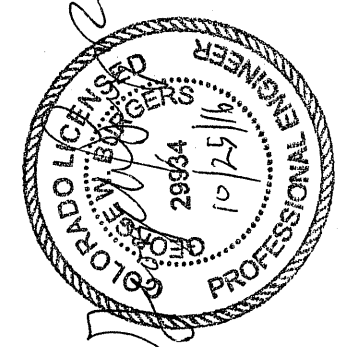
ALL EXTERIOR BUILDING MOUNTED LUMINAIRE ARE CALLED OUT AND DEFINED ON DRAWINGS EB.1 AND PH.1.1.



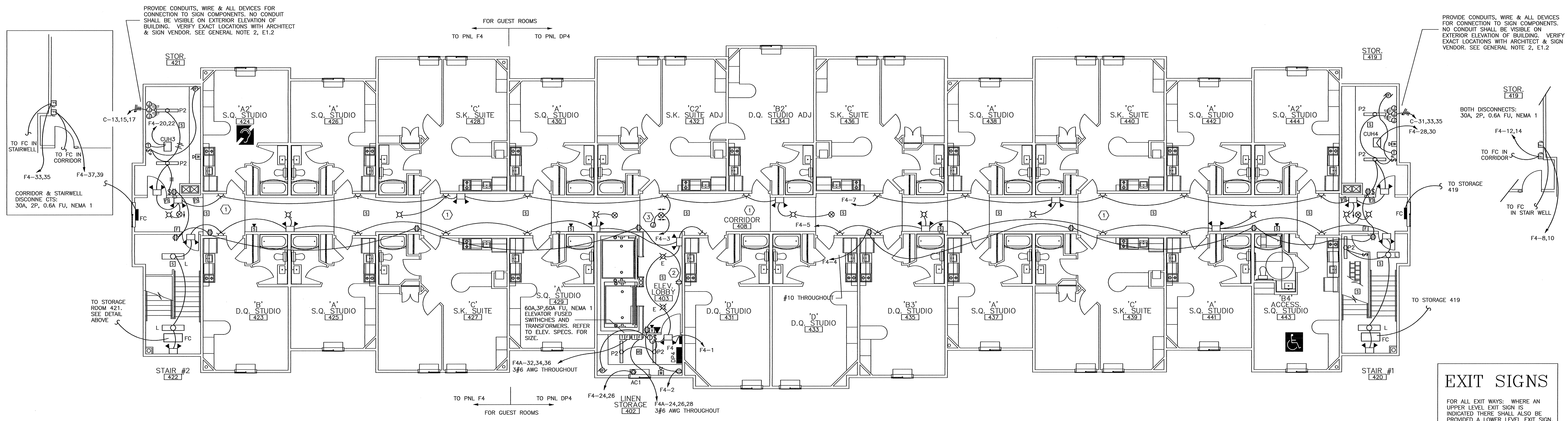
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

ALL RECESSED LUMINAIRE IN HARD CEILING SHALL HAVE ONE HOUR FIRE RATING. THIS NOTE APPLIES TO ALL RECESSED LUMINAIRE, NOT JUST LUMINAIRE TYPE C, E AND H. RECESSED LUMINAIRE SHALL BE FURNISHED WITH 1 HOUR RATED ENCLOSURES OR SHALL BE INSTALLED IN THE RATED ENCLOSURE SHOWN IN DETAIL 3 ON DRAWING A6.1.

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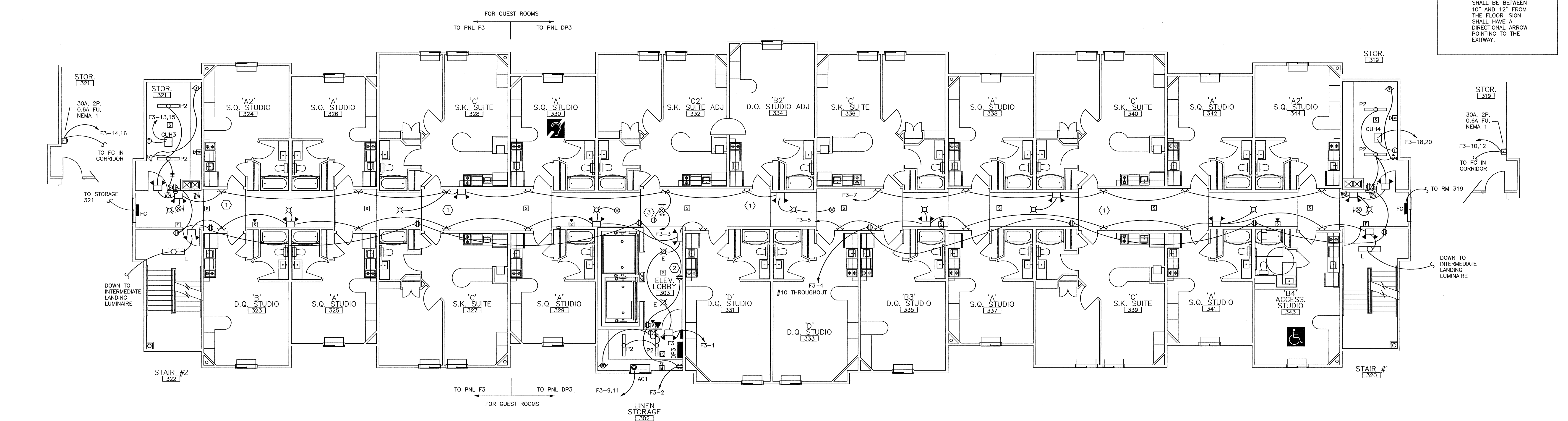


FOURTH FLOOR PLAN
SCALE 1/8" = 1'-0"

EXIT SIGNS

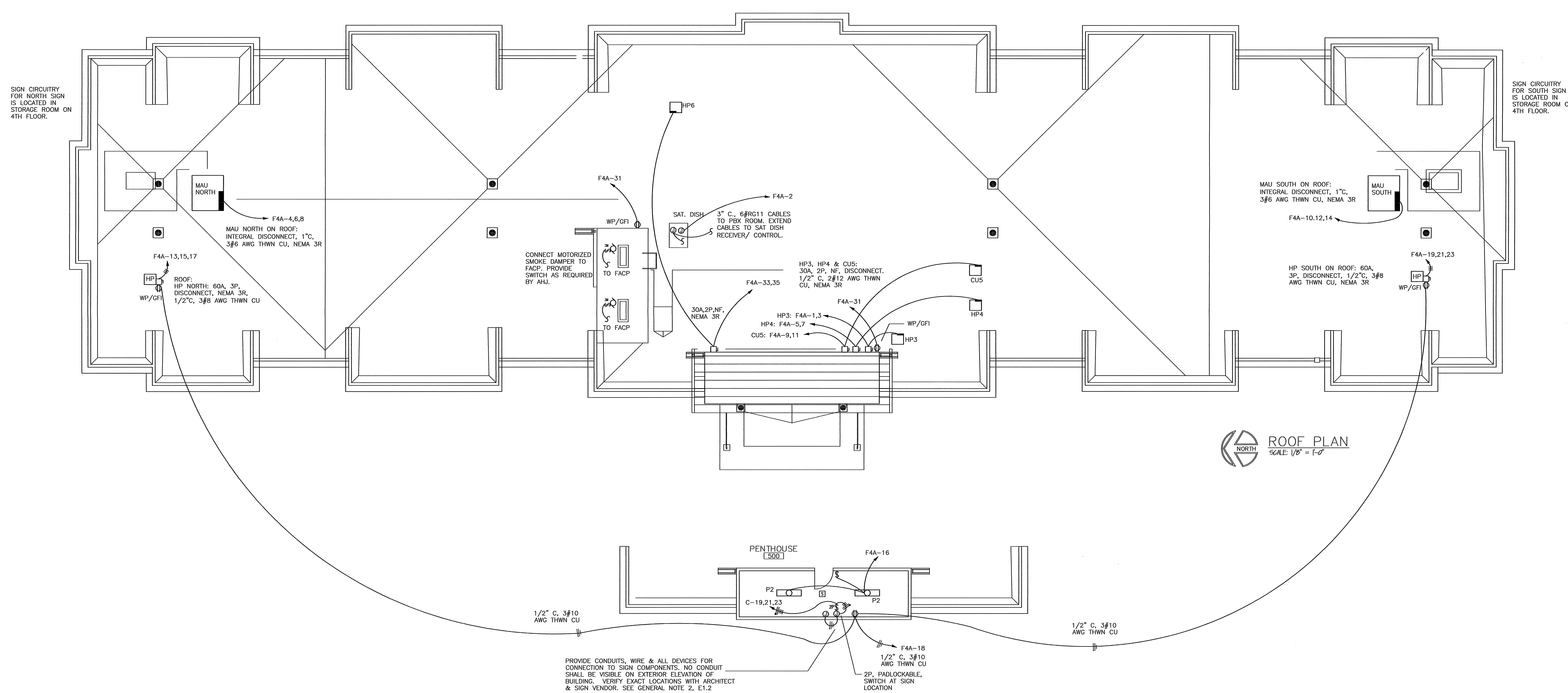
FOR ALL EXIT WAYS, WHERE AN UPPER LEVEL EXIT SIGN IS INDICATED THERE SHALL ALSO BE PROVIDED A LOWER LEVEL EXIT SIGN. ALL EXIT SIGNS SHALL CONTAIN A BATTERY PACK.

- UPPER LEVEL SIGN
- LOWER LEVEL SIGN, CONNECT CIRCUIT TO THE UPPER EXIT SIGN. BOTTOM OF SIGN SHALL BE BETWEEN 10" AND 12" FROM THE FLOOR. SIGN SHALL HAVE A DIRECTIONAL ARROW POINTING TO THE EXITWAY.

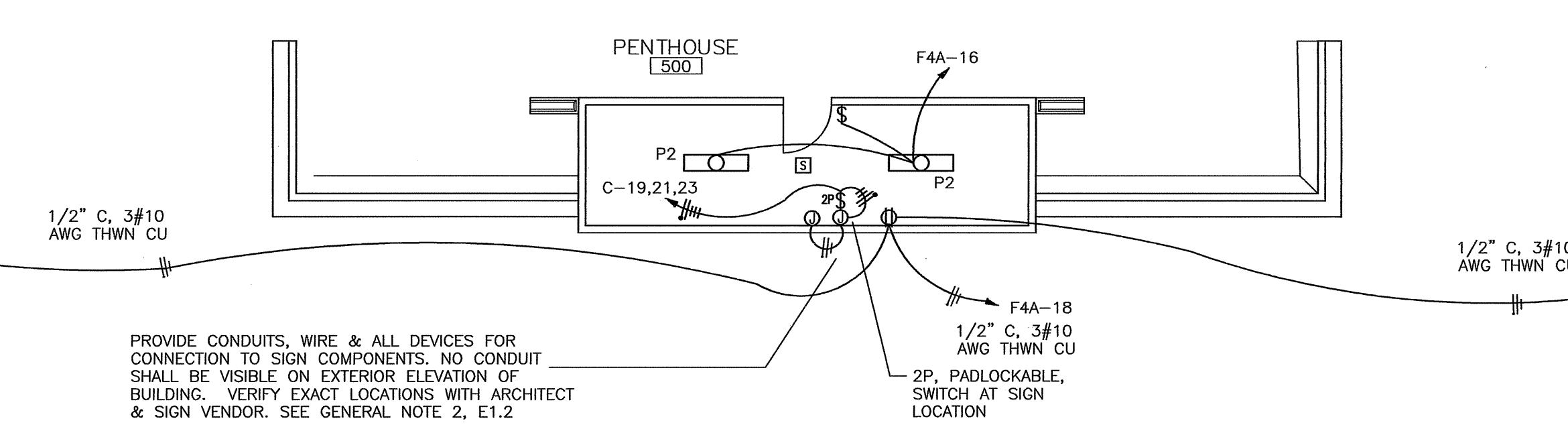


THIRD FLOOR PLAN
SCALE 1/8" = 1'-0"

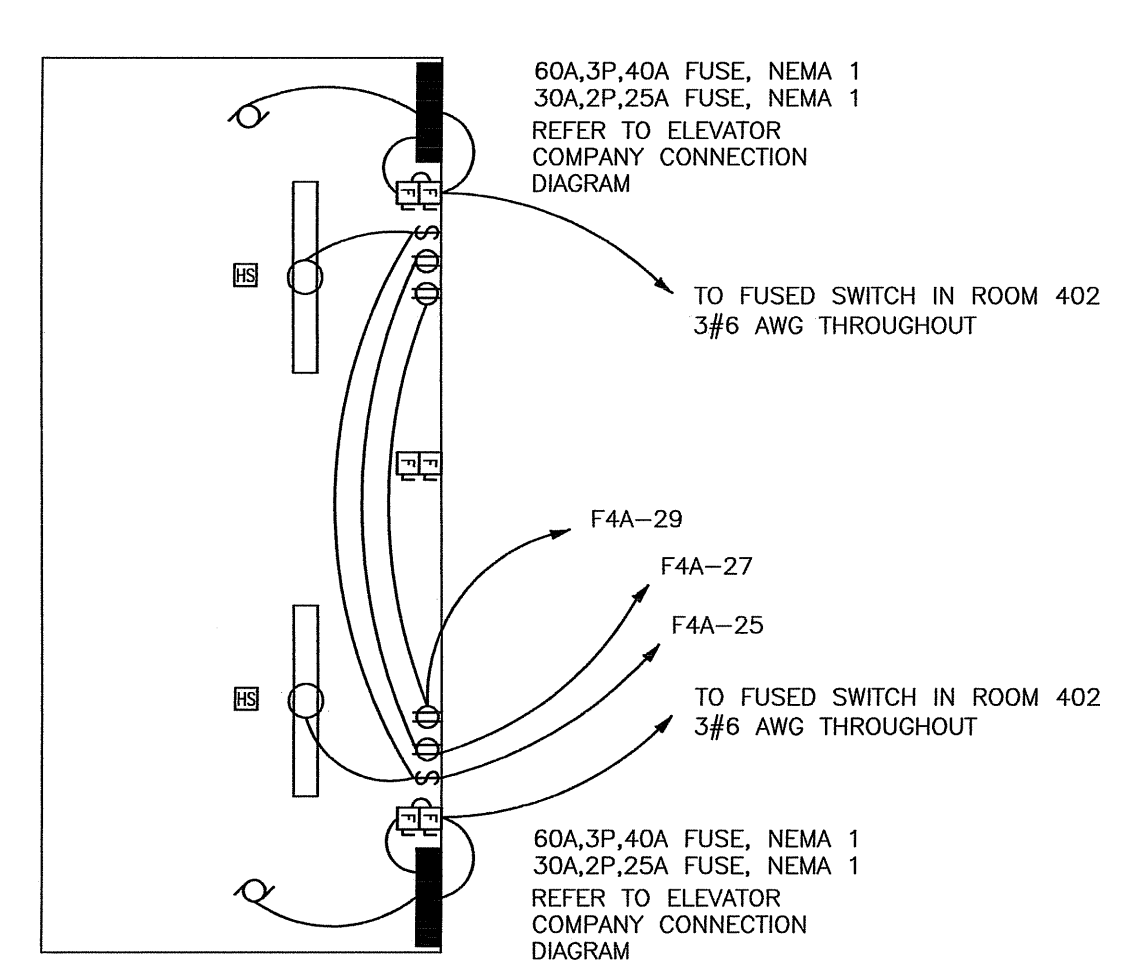
APPROVAL



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



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



TOP OF ELEVATOR SHAFT PLAN
SCALE: 1/4" = 1'-0"

SIGN CIRCUITRY FOR NORTH SIGN IS LOCATED IN STORAGE ROOM ON 4TH FLOOR.

SIGN CIRCUITRY FOR SOUTH SIGN IS LOCATED IN STORAGE ROOM ON 4TH FLOOR.

CONNECT MOTORIZED SMOKE DAMPER TO FACP. PROVIDE SWITCH AS REQUIRED BY AHJ.

PROVIDE CONDUITS, WIRE & ALL DEVICES FOR CONNECTION TO SIGN COMPONENTS. NO CONDUIT SHALL BE VISIBLE ON EXTERIOR ELEVATION OF BUILDING. VERIFY EXACT LOCATIONS WITH ARCHITECT & SIGN VENDOR. SEE GENERAL NOTE 2, E1.2

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CANDLEWOOD SUITES
Pueblo, CO

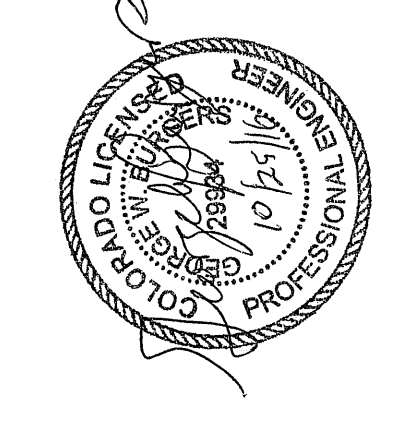
PROJ. MGR
PRO GROUP INC.
 208 E. Holly Boulevard
 Brandon, South Dakota 57005
 Phone: 605.336.8197
 Fax: 605.582.3894

ARCHITECT:
LES ROWLAND
 212 E. Holly Boulevard
 Brandon, South Dakota 57005

GEORGE W. BURGERS, P.E.
 The ELECTRICAL ENGINEER
 448 W. LOOKOUT DR. PUEBLO WEST, CO 81007
 PH: 719-647-1997

SHEET NAME: **Roof Electrical Plan**

PROJECT NO.	W16006
DRAWN BY:	jb
CHECKED BY:	GWB
DATE:	10.21.2016
SHEET:	E3.3



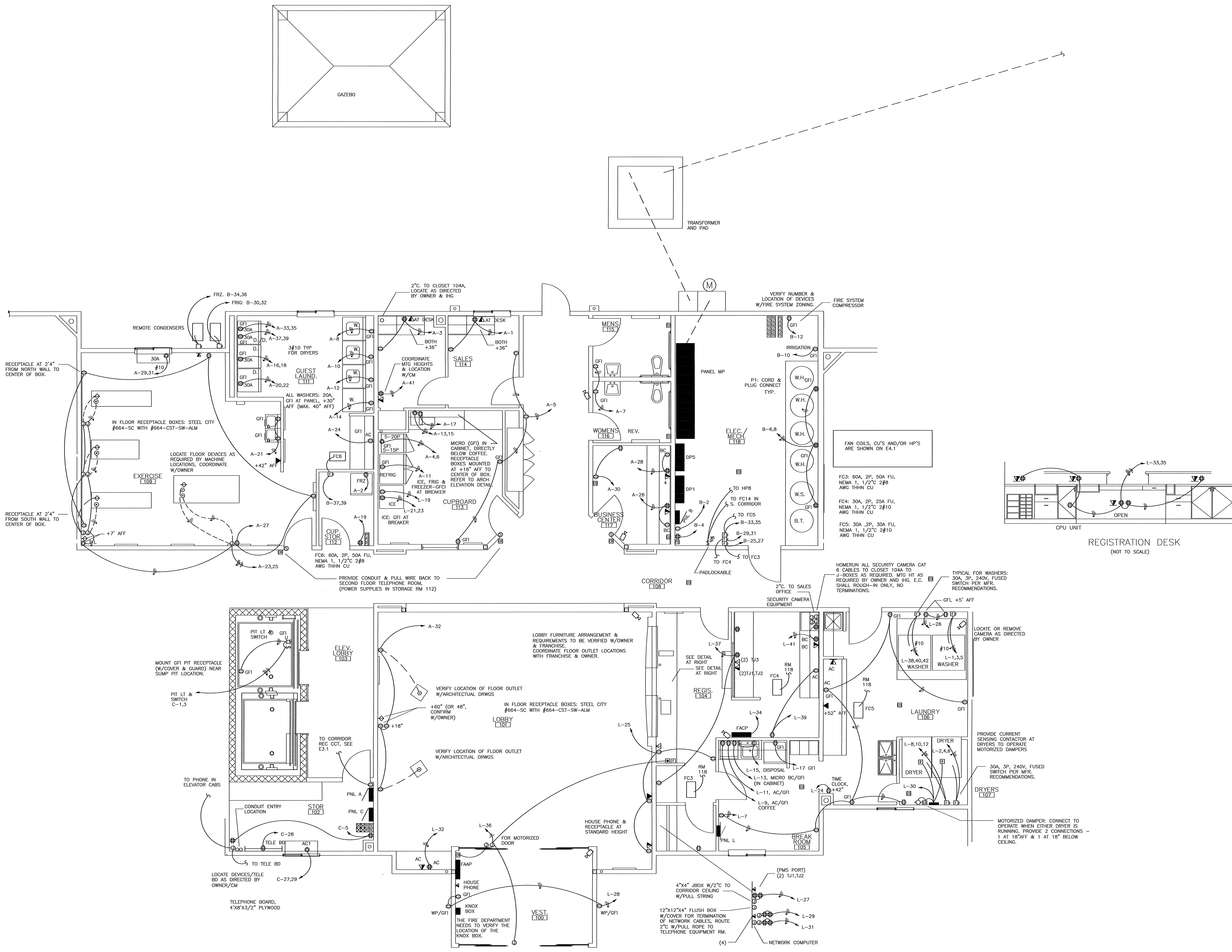
Enlarged Core Electrical Plan

SHEET NAME:
PROJECT NO. W16006
DRAWN BY: jlb
CHECKED BY: GWB
DATE: 10.21.2016
SHEET:

E4.1

APPROVAL

CORE AREA PLAN
 SCALE 1/4" = 1'-0"



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PANEL SCHEDULE: GA												
60 AMPS			120/208 VOLT, 1 PH. 3 W. MLO			MOUNT: FLUSH						
CCT	LOAD	P	AMPS	A	B	AMPS	P	LOAD	CCT			
1	COOKTOP	2	20	-	-	20	2	HVAC MCA = 19.0	2			
2	DISHWASHER/ DISPOSAL	1	20	GFI	-	20	1	LIVING LTS/REC	6			
3	KITCHEN REC	1	20	GFI	-	20	1	BDRM REC/BATH LT	8			
4	KITCHEN REC	1	20	GFI	-	20	1	BATHRM REC	10			
5	FRIG	1	20	GFI	-	20	1	HAIR DRYER	12			
6	MICROWAVE/HOOD	1	20	GFI	-	20	1		14			
7		1	1	-	-	1	1		16			
8		1	1	-	-	1	1		18			

HAIR DRYER CIRCUIT FOR ACCESSIBLE UNITS ONLY

GUEST ROOMS TYPES A, A1, AND A2

TYPICAL GUEST ROOM STUDIO

PANEL SCHEDULE: GC												
60 AMPS			120/208 VOLT, 1 PH. 3 W. MLO			MOUNT: FLUSH						
CCT	LOAD	P	AMPS	A	B	AMPS	P	LOAD	CCT			
1	COOKTOP	2	20	-	-	30	2	HVAC MCA = 28.0	2			
2	DISHWASHER/ DISPOSAL	1	20	GFI	-	20	1	#10 AWG CU RECD	4			
3	KITCHEN REC	1	20	GFI	-	20	1	LIVING LTS/REC	6			
4	KITCHEN REC	1	20	GFI	-	20	1	BDRM REC/BATH LT	8			
5	KITCHEN REC	1	20	GFI	-	20	1	BATHRM REC	10			
6	FRIG	1	20	GFI	-	20	1	HAIR DRYER	12			
7	MICROWAVE/HOOD	1	20	GFI	-	20	1		14			
8		1	1	-	-	1	1		16			
9		1	1	-	-	1	1		18			

* GUEST UNIT TYPE B MAY REQUIRE 20A BREAKER AND RECEPTACLE. VERIFY WITH M.C. PRIOR TO ORDERING DEVICES.

HAIR DRYER CIRCUIT FOR ACCESSIBLE UNITS ONLY

GUEST ROOMS TYPES B, B1, B2, B3, D, AND D1

TYPICAL GUEST ROOM STUDIO

PANEL SCHEDULE: GB												
100 AMPS			120/208 VOLT, 1 PH. 3 W. MLO			MOUNT: FLUSH						
CCT	LOAD	P	AMPS	A	B	AMPS	P	LOAD	CCT			
1	COOKTOP	2	20	-	-	20	2	HVAC MCA = 19.0	2			
2	DISHWASHER/ DISPOSAL	1	20	GFI	-	20	1	LIVING LTS/REC	6			
3	KITCHEN REC	1	20	GFI	-	20	1	BDRM REC/BATH LT	8			
4	KITCHEN REC	1	20	GFI	-	20	1	BATHRM REC	10			
5	FRIG	1	20	GFI	-	20	1	HAIR DRYER	12			
6	MICROWAVE/HOOD	1	20	GFI	-	20	1		14			
7		1	1	-	-	1	1		16			
8		1	1	-	-	1	1		18			

HAIR DRYER CIRCUIT FOR ACCESSIBLE UNITS ONLY

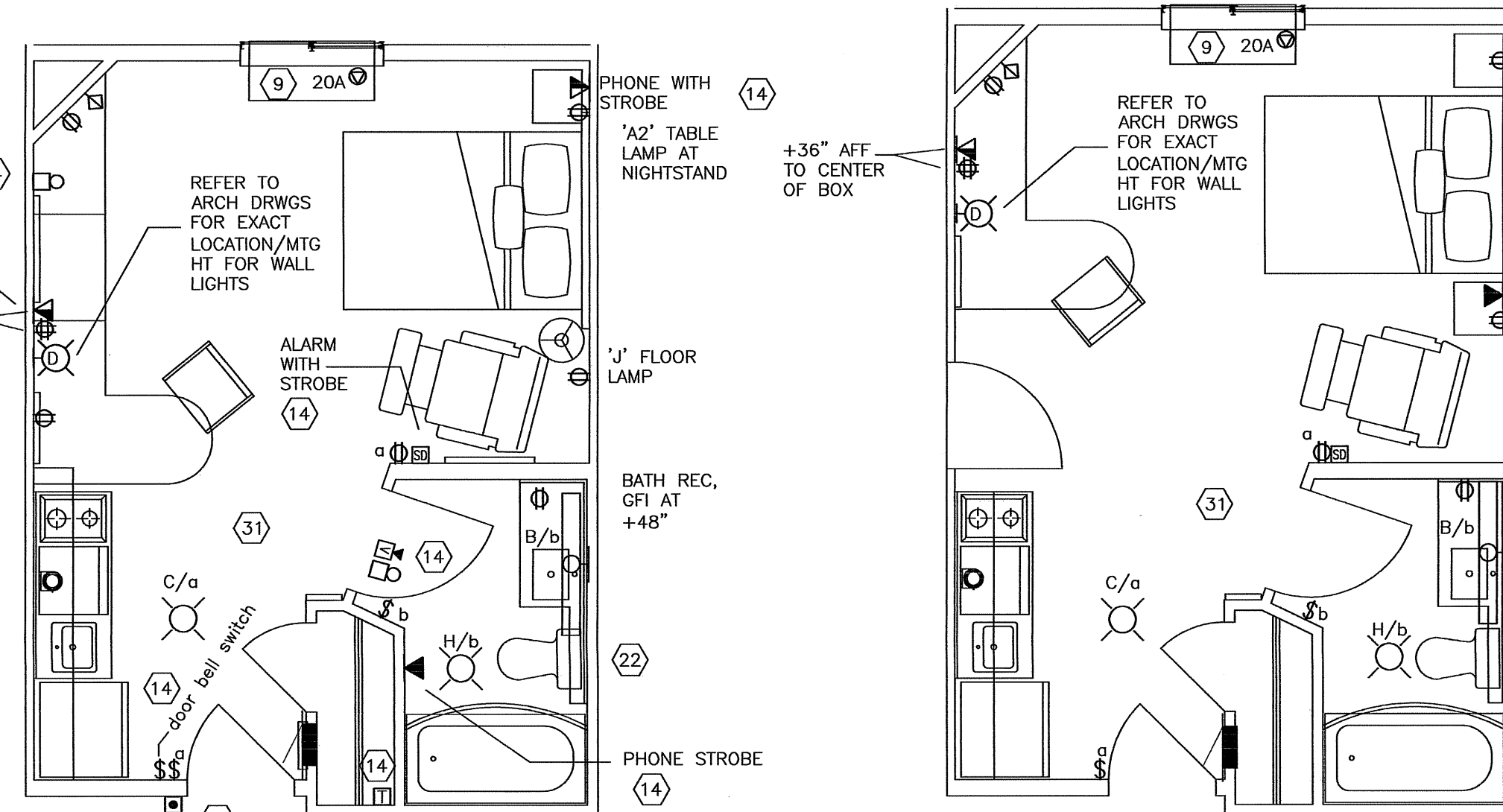
TYPICAL GUEST ROOM SUITE

VERIFY MOUNTING HEIGHTS FOR DEVICES BEHIND TV'S WITH CM. DEVICES SHALL BE ACCESSIBLE & HIDDEN FROM VIEW

GUESTROOM APPLIANCE SCHEDULE			
APPLIANCE	VOLTAGE	LOAD	VOLT-AMPS
REFRIGERATOR	120V	1200 VA	
DISHWASHER (STANDARD)	120V	744 VA	
DISHWASHER (ADA)	120V	1092 VA	
DISPOSER	120V	480 VA	
COOK TOP	120V	2600 VA	
MICROWAVE/HOOD	120V	1100 VA	
MICROWAVE (ADA)	120V	800 VA	

INFORMATION BASED ON DATA RECEIVED AT TIME OF DESIGN. VERIFY ALL ELECTRICAL INFORMATION WITH EQUIPMENT SUPPLIER.

VERIFY MOUNTING HEIGHTS FOR DEVICES BEHIND TV'S WITH CM. DEVICES SHALL BE ACCESSIBLE & HIDDEN FROM VIEW



REFER TO KITCHEN DETAIL ON ES.2
KITCHEN LIGHT: 44" FROM COUNTER WALL & 57" FROM ENTRANCE WALL.

ROOMS 130 & 330 ARE HEARING IMPAIRED. VERIFY NUMBERS W/ARCHITECTURAL DRAWINGS. REFER TO NOTE 14, ES.1

REFER TO KITCHEN DETAIL ON ES.2
KITCHEN LIGHT: 44" FROM COUNTER WALL & 57" FROM ENTRANCE WALL.

REFER TO PANEL SCHEDULE GA ABOVE
'A' SINGLE QUEEN STUDIO
ROOM TYPE 'A'
SCALE: 1/4" = 1'-0"

REFER TO PANEL SCHEDULE GA ABOVE
'A1' SINGLE QUEEN STUDIO, ADJOINING
ROOM TYPE 'A1'
SCALE: 1/4" = 1'-0"

PROVIDE BOTH RG-6 & CAT 6 TO TV AS RECOMMENDED BY IHG (INTERCONTINENTAL HOSPITALITY GROUPS).
VERIFY WITH CM PRIOR TO BIDDING: ALL DATA, TV & PHONE CABLES SHALL HOMERUN FROM EACH GUEST ROOM DEVICE TO THE PBX ROOM WITH SUFFICIENT CABLE FOR THE APPROPRIATE TRADE TO TERMINATE ON BACKBOARD TERMINAL STRIP OR ON CABINET. ONLY TELEPHONES IN UNIT MAY BE DAISSY CHAINED. COORDINATE WITH VENDOR OF EACH SIGNAL TRADE.

ALL GUEST ROOM UNITS ON FIRST AND SECOND FLOORS SHALL HAVE ONE SINGLE STATION CARBON MONOXIDE DETECTOR/ALARM. VERIFY ALL APPLICABLE ROOM NUMBERS AND TYPES WITH THE ARCHITECTURAL PLANS. VERIFY ACCURACY OF GUEST ROOM UNIT NUMBERS CALLED OUT WITH THE VARIOUS UNIT TYPES ON DRAWINGS ES.1 AND ES.2. MOUNT ON LIVING AREA SIDE OF BATHROOM WALL NEAR SMOKE DETECTOR.

NEC 2014 EDITION, ARTICLE 406.12B: "ALL NON-LOCKING-TYPE, 125 VOLT 15- AND 20- AMPERE RECEPTACLES LOCATED IN GUEST ROOMS AND GUEST SUITES SHALL BE LISTED AS TAMPER-RESISTANT RECEPTACLES."

ONLY LUMINAIRES WITH UL OR ETL APPROVAL AND RATED FOR WATTAGE THAT IT WILL CARRY SHALL BE INSTALLED.
ELEVATIONS FOR MICROWAVE/FRIG/SINK AREA ON ES.2

COORDINATE MOUNTING HEIGHTS FOR TV/TV RECEPTACLE W/CM. DEVICES TO BE MOUNTED BEHIND TV, NOT VISIBLE IN ROOM.

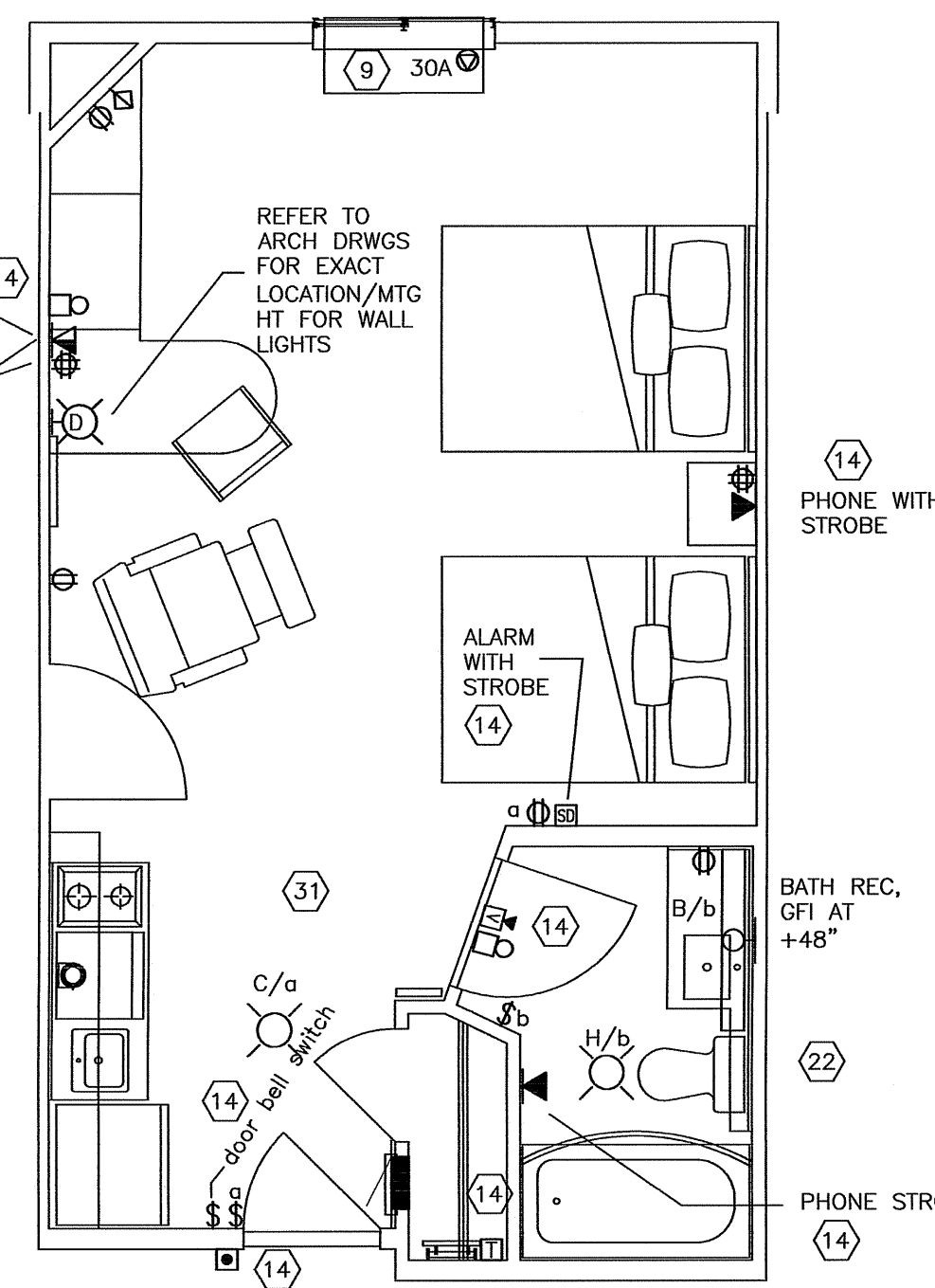
ALL GUEST ROOMS ARE DWELLING UNITS AND ALL 120V CIRCUITS, EXCEPT THE BATHROOM CIRCUIT, SHALL BE ARC FAULT PROTECTED.

NOTE: DEVICE LOCATIONS ARE NOT YET DETERMINED DUE TO NEW CASEWORK. COORDINATE ALL DEVICE LOCATIONS AT OR NEAR CASEWORKS WITH OWNER & IHG. THIS APPLIES TO ALL DEVICES AT CASEWORK WHETHER DIMENSIONED ON DRAWINGS, SHOWN ON ELEVATIONS, OR INDICATED AS "AC" (ABOVE COUNTER) OR "BC" (BELOW COUNTER).

VERIFY ACTUAL HVAC EQUIPMENT LOADS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLING ANY CIRCUITRY FOR HVAC EQUIPMENT. ADJUST CIRCUIT BREAKER SIZES AND CIRCUIT RATINGS ACCORDINGLY.

ALL AUDIO/VISUAL (AV) IMPAIRED UNITS (WHERE ACCESSIBLE OR NON-ACCESSIBLE) MUST INCLUDE AT MINIMUM THE AUDIO/VISUAL REQUIREMENTS LISTED BELOW, AND AS DIRECTED BY THE ADA.
*AV STROBE FOR FIRE ALARM IN THE SLEEPING AREA (ADD VISUAL STROBE IN LIVING AREA OF SUITES)
*AV STROBE FOR SMOKE ALARM IN THE SLEEPING AREA (ADD VISUAL STROBE IN LIVING AREA OF SUITES).
*VISUAL DOOR BELL IN THE SLEEPING AREA (ADD VISUAL STROBE IN LIVING AREA OF SUITES).
*VISUAL STROBE INDICATOR FOR FIRE ALARM, SMOKE ALARM AND DOORBELL IN THE BATHROOM.
*CLOSED CAPTION TELEVISION
*TELEPHONE WITH VOLUME CONTROLS FOR THE HAND SET.
*VIBRATING CLOCK RADIO

VERIFY MOUNTING HEIGHTS FOR DEVICES BEHIND TV'S WITH CM. DEVICES SHALL BE ACCESSIBLE & HIDDEN FROM VIEW



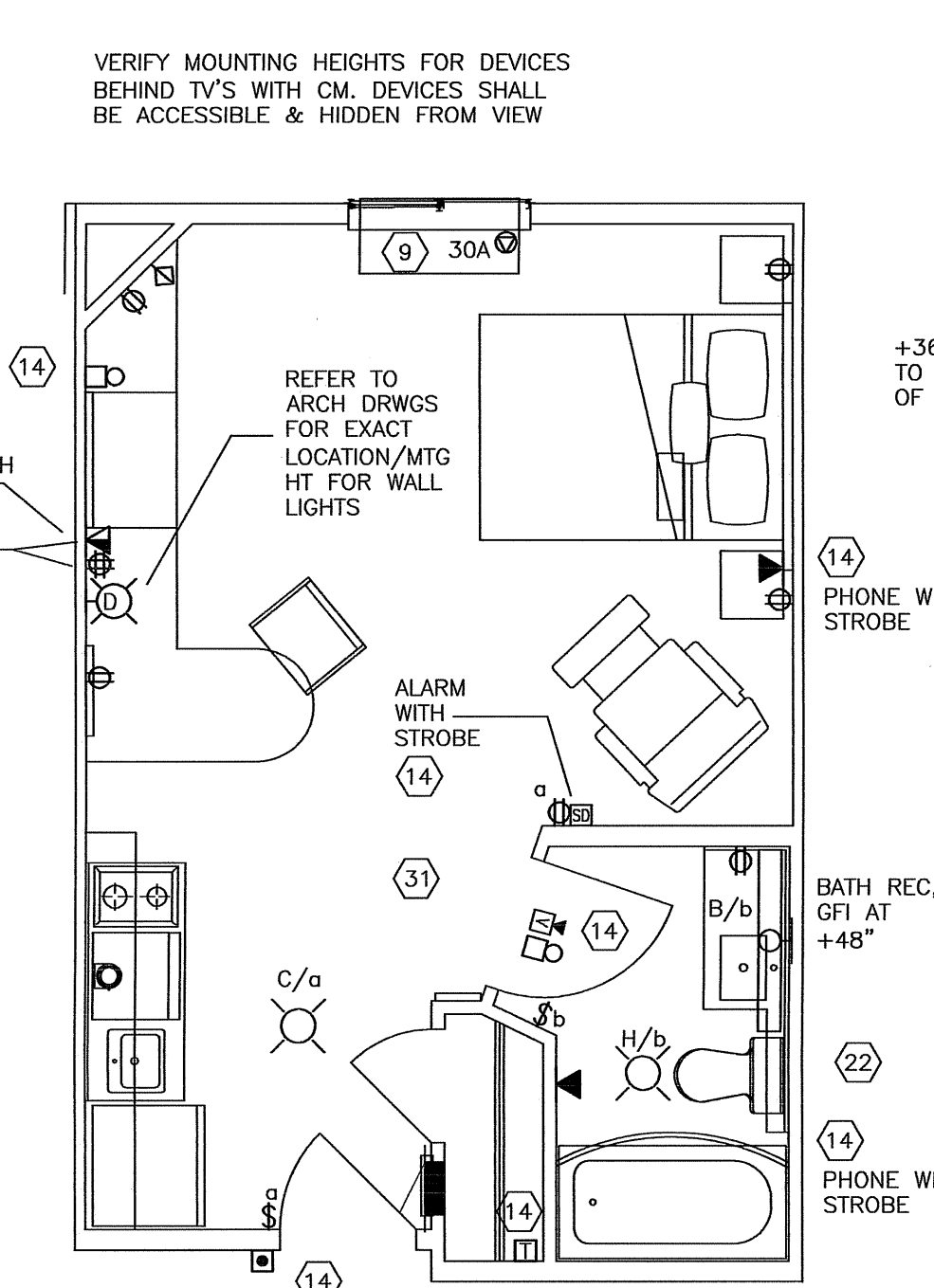
REFER TO KITCHEN DETAIL ON ES.2
KITCHEN LIGHT: 44" FROM COUNTER WALL & 57" FROM ENTRANCE WALL.

ROOM 234 IS HEARING IMPAIRED. VERIFY NUMBERS W/ARCHITECTURAL DRAWINGS. REFER TO NOTE 14, ES.1

REFER TO PANEL SCHEDULE GC ABOVE
'B2' DOUBLE QUEEN STUDIO ADJOINING
ROOM TYPE 'B2'
SCALE: 1/4" = 1'-0"

REFER TO PANEL SCHEDULE GC ABOVE
'B' DOUBLE QUEEN STUDIO
ROOM TYPE 'B'
SCALE: 1/4" = 1'-0"

REFER TO PANEL SCHEDULE GC ABOVE
REFER TO NOTE 13
'B1' ACCESSIBLE SINGLE QUEEN STUDIO
ROOM TYPE 'B1'
SCALE: 1/4" = 1'-0"



REFER TO KITCHEN DETAIL ON ES.2
KITCHEN LIGHT: 44" FROM COUNTER WALL & 57" FROM ENTRANCE WALL.

ROOM 424 IS HEARING IMPAIRED. VERIFY NUMBERS W/ARCHITECTURAL DRAWINGS. REFER TO NOTE 14, ES.1

REFER TO PANEL SCHEDULE GC ABOVE
'A2' SINGLE QUEEN STUDIO
ROOM TYPE 'A2'
SCALE: 1/4" = 1'-0"

NOTES FROM PROTOTYPE 5 DRAWINGS:

1. PROVIDE 'HACR' RATED CIRCUIT BREAKER WHERE REQUIRED.
2. DIRECTORY CARD SHALL BE TYPED AND INSTALLED FOR ALL PANELS WITH LOAD DESCRIPTION AND LOCATION.
3. ALL ELECTRICAL PANELS SHALL BE PERMANENTLY MARKED WITH FLUORESCENT NAMEPLATES.
4. ALL PHENOLIC MOUNTED PANELS SHALL HAVE A MINIMUM OF (5) FIVE 1" SPARE CONDUITS STUBBED ABOVE ACCESSIBLE CEILING VOID. LABEL EACH SPARE CONDUIT (FOR FUTURE USE).
5. ALL ELECTRICAL PANELS SHALL BE CAPABLE OF BEING LOCKED. TWO KEYS FOR EACH PANEL SHALL BE DELIVERED TO THE GENERAL CONTRACTOR TO BE FORWARDED TO THE OWNER UPON COMPLETION OF THE PROJECT.
6. PROVIDE AND INSTALL CIRCUIT BREAKERS OF THE ARC-FAULT INTERRUPTER TYPE IN ALL BEDROOM AND LIVING ROOM RECEPTACLE CIRCUITS.
7. VERIFY CIRCUIT BREAKER SIZES WITH NETWORK SUPPLIER FOR PBX, TELEPHONE, INTERNET AND CABLE TV.
8. PAINT PANEL FRONT TO MATCH ADJACENT WALL SURFACE.
9. PANELS IN ACCESSIBLE ROOMS SHALL BE +52" AFF TO TOP OF BOX.

ELECTRICAL NOTES

- ALL NOTES APPLY TO ES.1 AND ES.2
1. LOW VOLTAGE CONTRACTOR SHALL PROVIDE BOX, MODULAR TERMINAL JACK, & COVER FOR TELEPHONE EQUIPMENT FBO HE SHALL PROVIDE CABLES TO TELEPHONE BOARD WITH 6' EXTRA CABLE COILED FOR TERMINATION. PROVIDE 4"x8"x3/4" EXTERIOR GRADE FIREPROOFED PLYWOOD, PRIMED & PAINTED WHITE. TELEPHONE EQUIPMENT FBO. PROVIDE (2) 2" C.O. FROM TELEPHONE BOARD TO 5' OUTSIDE OF BUILDING LIMITS (OR AS DIRECTED BY CONSTRUCTION MANAGER) FOR TELEPHONE ENTRANCE. REFER TO TELEPHONE RISER DETAIL. DATA LINES SHALL NOT BE DAISSY CHAINED. TELEPHONE LINES WITHIN A SINGLE GUEST ROOM UNIT MAY BE DAISSY CHAINED.
 2. LOW VOLTAGE CONTRACTOR SHALL PROVIDE BOX, CONNECTION DEVICE, COVER AND CABLE FOR CABLE TV, RECEIVER, SPLITTERS & AMPLIFIER EQUIPMENT FBO. PROVIDE ALL OTHER MISCELLANEOUS MATERIAL & DEVICES AS REQUIRED FOR A COMPLETE & OPERABLE CABLE TV SYSTEM. MULTIPLE CONNECTIONS IN SAME UNIT SHALL NOT BE DAISSY CHAINED. PROVIDE 2" C.O. TO 5' OUTSIDE OF BUILDING LIMITS (OR AS DIRECTED BY CONSTRUCTION MANAGER) FOR TV CABLE ENTRANCE.
 3. DESK/TABLE AREA: DUPLEX RECEPTACLE AND DATA OUTLET, MOUNT HORIZONTALLY ABOVE DESK/TABLE TOP (AT +33.5" AFF) TO CENTER OF BOX. AND DUPLEX RECEPTACLE AND PHONE OUTLET AT STANDARD HT. VERIFY FURNITURE HEIGHT W/OOWNER.
 4. PROVIDE 20 AMP GFCI PROTECTED RECEPTACLES FOR EACH UNIT BATHROOM CONNECTED TO A CIRCUIT DEDICATED TO THAT BATHROOM'S RECEPTACLES ONLY.
 5. FOR EACH VOICE, DATA & CATV THE LOW VOLTAGE CONTRACTOR SHALL PROVIDE: CABLES AND TERMINATIONS AS INDICATED ELSEWHERE AS WELL AS MISCELLANEOUS MATERIAL REQUIRED TO COMPLETE THE INSTALLATION WITH FINAL TERMINATION, INCLUDING JACK IN COMMUNICATION ROOM BY OTHERS.
 6. COORDINATE EXACT LOCATIONS FOR ALL DEVICES WITH ARCHITECTURAL LAYOUTS & ELEVATIONS. SWITCHES SHALL BE MOUNTED BEYOND FINISH FEATURES AT 4" SUCH AS WAINSCOTING. ELECTRICAL CONTRACTOR TO VERIFY ALL DEVICE MOUNTING HEIGHTS WITH CONSTRUCTION MANAGER.
 7. ALL DETECTION & ALARM DEVICES IN GUEST ROOMS SHALL BE WALL MOUNTED UNLESS OTHERWISE REQUIRED BY CONDITIONS BELOW CONTROL BY THE CONTRACTOR. ALL UNIT SMOKE DETECTORS SHALL BE ADDRESSABLE AND HARD WIRE CONNECTED TO THE FACT - ALL GUEST ROOM DEVICES SHALL BE SYSTEM POWERED WITH SYSTEM BATTERY BACKUP. SMOKE DETECTORS ARE REQUIRED IN EACH BEDROOM AND ANOTHER IN EACH LIVING ROOM SEPARATED BY A DOOR. ALL GUEST ROOM UNIT ALARM DEVICES IN THE GUEST ROOM UNIT SHALL BE ACTIVATED BY ANY DETECTION DEVICE IN THE UNIT. ANY ALARM DEVICE IN THE GUEST ROOM UNIT SHALL PROVIDE A SYSTEM WARNING. AUDIBLE ALARM BASES OF SMOKE DETECTORS SHALL BE INSTALLED IN EACH BED ROOM AND LIVING AREA SEPARATED BY A DOOR. ANY TWO GUEST ROOM DETECTORS IN ALARM CONDITION AT THE SAME TIME SHALL CAUSE A SYSTEM ALARM. ANY SYSTEM ALARM SHALL ALARM ALL DEVICES IN THE GUEST ROOM. SEE BELOW FOR ADDITIONAL DEVICES REQUIRED FOR ACCESSIBLE AND HEARING IMPAIRED INDICATED GUEST ROOMS.
 8. GUEST ROOM LIVING AREA RECEPTACLES SHALL BE MOUNTED AT STANDARD HEIGHT. RECEPTACLES AT COUNTERS OF GUEST ROOMS SHALL BE MOUNTED AT SWITCH HEIGHT, UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE CONSTRUCTION MANAGER. REFER TO NEW CASEWORK NOTES FOR EXACT LOCATIONS OF DEVICES.
 9. UNDER WINDOW PTACS SHALL BE CORD & PLUG CONNECTED. THE RECEPTACLE SHALL BE MOUNTED WITHIN THE PTAC SPACE. VERTICAL PTACS SHALL BE CORD & PLUG CONNECTED. THE RECEPTACLE SHALL BE VERTICALLY MOUNTED NEAR THE FRONT ACCESS PANEL ON THE GUEST ROOM WALL. THE RECEPTACLE SHALL NOT BE MOUNTED ON A PARTY WALL.
 10. BACK TO BACK OUTLETS (RECEPTACLES, LIGHTING, TV, PHONE, ETC., OUTLETS CLOSER THAN 24" & ON DIFFERENT SIDES OF A PARTY OR CORRIDOR WALL) SHALL BE SOUND PROOFED & HAVE AN APPROVED FIRE BARRIER INSTALLED AS APPROVED BY THE AHL. THESE OUTLETS CLOSER THAN 24" SHALL HAVE WOOD STUDS PROVIDED BY THE E.C. TO DIVIDE THE STUD SPACE AND THE DEVICES SHALL BE MOUNTED ON OPPOSITE SIDES OF THE STUD WITH THE DEVICES NOT CLOSER THAN 3 1/2" BETWEEN CENTERS. PROVIDE FIRE RATED BOXES SUCH THAT FIRE RATED BARRIERS ARE NOT REQUIRED. VERIFY FIRE RATED BOXES PROVIDE AN ACCEPTABLE FIRE BARRIER BY AHL PRIOR TO BEGINNING ROUGH-IN. PROVIDE A RATED SYSTEM ACCEPTABLE TO THE AHL. BACK TO BACK J-BOXES SHALL NOT BE INSTALLED CLOSER THAN 24" WITHOUT WRITTEN APPROVAL OF METHODS BY THE AHL. DEVICES MOUNTED CLOSER THAN 24" SHALL NOT BE IN THE SAME JOIST SPACE. THE E.C. SHALL PROVIDE ALL MATERIAL REQUIRED TO ALLOW "BACK TO BACK" DEVICES TO BE MOUNTED AS DESCRIBED. PROVIDE SOUND PROOF INSULATION BETWEEN ALL "BACK TO BACK" DEVICES. SOUND CAULK ALL JOXBES TO PROVIDE A SOUND BARRIER ACCEPTABLE TO THE OWNER.
 11. VERIFY WITH MECHANICAL DRAWINGS/CONTRACTOR THE EXACT LOCATION FOR ALL MECHANICAL EQUIPMENT.
 12. ALL TERMINATIONS WITHIN GUEST ROOMS SHALL BE BY THE LVC AND E.C. AS DIRECTED BY THE OWNER OR UNLESS DIRECTED OTHERWISE BY THE OWNER.
 13. ACCESSIBLE UNITS: MOUNT RECEPTACLES AT +18" AFF TO TOP OF BOX. MOUNTING HEIGHT FOR SWITCHES SHALL BE AT +48" AFF TO TOP OF BOX. PROVIDE FOR A PHONE IN BATHROOM. REFER TO NOTE 9 ABOVE FOR BATHROOM RECEPTACLE. FOR ADA RATED ROOMS WHICH ARE ALSO HEARING IMPAIRED UNITS, SEE BELOW. ALL ACCESSIBLE UNITS SHALL HAVE THE DOORBELL SYSTEM INSTALLED.
 14. HEARING IMPAIRED UNITS: PROVIDE VISUAL ALARMS (STROBES) IN ALL AREAS OF THE GUEST ROOM UNIT SEPARATED BY A DOOR. STROBE(S) SHALL BE MOUNTED NOT MORE THAN 15 FEET DIRECT LINE TO THE FURTHEST PILLOW IN THE AREA. IN ANY LIVING AREA NOT INDICATED TO HAVE A SLEEPING AREA, PROVIDE 15 CANDELA STROBE(S) AND 75 DECIBEL HORNS. IN THE BATHROOMS PROVIDE STROBE ONLY DEVICES RATED AT 15 CANDELA. ANY HOUSE FIRE ALARM SYSTEM (FAS) ALARM SHALL ACTIVATE STROBES VISIBLE IN ALL AREAS OF THE UNIT. ANY GUEST ROOM DETECTION DEVICE SHALL ACTIVATE STROBES VISIBLE IN ALL AREAS OF THE UNIT. ALARM DEVICES IN SLEEPING AREAS SHALL BE RATED AT 100dB AUDIBLE, 177 CANDELA, 3 HZ (3 OR MORE FLASHES PER SECOND). UNITS SHALL HAVE STROBE(S) IN RESTROOM. AN FAS ALARM OR ANY GUEST ROOM UNIT DETECTION DEVICE SHALL ACTIVATE AUDIBLE AND VISUAL ALARMS THROUGHOUT THE GUEST ROOM UNIT. POSITION VISUAL ALARMS SUCH THAT NO FULL OR PARTIAL WALL BLOCKS STROBE SIGNAL AT PILLOWS. STROBES SHALL HAVE RED BASE WITH WHITE LETTERS LABELED "FIRE".
HEARING IMPAIRED UNITS: PROVIDE STROBES FOR PHONE INDICATION. IF REQUIRED TO BE WALL MOUNTED THE STROBE SHALL BE WHITE W/BLACK LETTERS LABELED "PHONE". STROBE SHALL BE 1/3 HZ (1 STROBE EVERY 3 SECONDS, MOUNTED AT +7" AFF. (STROBES MAY BE PROVIDED ON PHONES, COORDINATE WITH OWNER/CONSTRUCTION MANAGER). GUEST ROOMS THAT ARE HEARING IMPAIRED ONLY (NOT ACCESSIBLE) SHALL HAVE IN THE BATHROOM A PHONE STROBE ONLY. ACCESSIBLE ROOMS THAT ARE ALSO HEARING IMPAIRED SHALL HAVE AN EMERGENCY PHONE WITH STROBE IN THE BATHROOM.
HEARING IMPAIRED UNITS: PROVIDE A DOOR BELL PUSH BUTTON TO ACTIVATE A BELL CHIME WITH AN ADA RATED STROBE IN LIVING SPACES AND IN BEDROOM SPACES. STROBE SHALL HAVE A WHITE BASE W/BLACK LETTERS & OPERATE AT 1/3HZ FOR A MINIMUM OF 5 STROBES. LABEL "DOOR" AND MOUNT AT +7" AFF. A SWITCH INSIDE UNIT SHALL DEACTIVATE THE DOOR BELL. LABEL THE SWITCH "DOOR BELL". PROVIDE CIRCUITRY TO TRANSFORMER, SWITCH, DOORBELL & CHIME.
 15. NO INTERIOR RECEPTACLES IN EXTERIOR WALLS UNLESS REQUIRED.
 16. SCONCES IN GUEST ROOMS SHALL BE HARD WIRED IN J-BOX BEHIND SCONCE. REFER TO ARCHITECTURAL ELEVATIONS & INSTALL AS DIRECTED BY CONSTRUCTION MANAGER.
 17. REFER TO OWNER'S SPECIAL REQUIREMENTS AND NOTES ON ARCHITECTURAL DRAWINGS AND E1.2
 18. NOT USED
 19. KITCHENS: SEE DETAILS ON ES.2. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND EXACT DIMENSIONS. HOMERUN CIRCUIT NUMBERS ARE NOT SHOWN, REFER TO PANEL SCHEDULES ON DRAWINGS ES.1. REFER TO ARCHITECTURAL DRAWINGS FOR CASEWORK NOTES.
 20. WHERE THERE IS A SCONCE SHOWN WITH A POWER RECEPTACLE NEARBY, THE RECEPTACLE SHALL BE VERTICALLY ALIGNED WITH THE SCONCE. WHERE THERE IS A TELEPHONE AND/OR DATA OUTLET NEARBY IT SHALL BE HORIZONTALLY ALIGNED WITH THE POWER RECEPTACLE AND MOUNTED CLOSE. THOSE SHOWN MOUNTED ABOVE TABLES, DESKS OR PENINSULAS SHALL BE MOUNTED WITHIN THE OUTER BOUNDS OF THE TABLE, DESK OR PENINSULA.
 21. GUEST ROOM BATHROOM EXHAUST FANS SHALL RUN CONTINUOUSLY. THEY SHALL BE PROVIDED BY THE M.C. THE E.C. SHALL COORDINATE WITH THE M.C.
 22. ALL CIRCUITRY IN THE BUILDING INCLUDING THE GUEST ROOMS SHALL BE IN RACEWAY OR SHALL BE MC CABLE.
 23. REFER TO ARCHITECTURAL ELEVATIONS FOR VANITY LUMINAIRE MOUNTING HEIGHTS.
 24. PROVIDE A J-BOX(ES) ABOVE ACCESSIBLE CORRIDOR CEILING ADJACENT TO UNIT ENTRANCE AS DESIRED TO PROVIDE THE JUNCTION BETWEEN HOMERUN CIRCUITRY AND IN-UNIT CIRCUITRY. THIS J-BOX IS APPLICABLE AT THE DISCRETION OF THE E.C. SINCE IT IS HIS DECISION AS TO ROUTING AND WIRING METHODS. ALSO SEE BOXED NOTE REGARDING DATA CABLING.
 25. ALL PENETRATIONS OF CORRIDOR FIREWALL SHALL BE IN METAL RACEWAY & FIRESTOPPED.
 26. VERIFY PANELS INDICATED BEHIND DOOR SWINGS ARE ACCEPTABLE TO LOCAL AUTHORITY HAVING JURISDICTION.
 27. REFER TO ARCHITECTURAL ELEVATIONS FOR SCONCE & PANEL MOUNTING HEIGHTS.
 28. ADJOINING GUEST ROOMS 127 & 129 SHALL HAVE THEIR UNIT FIRE ALARMS INTERCONNECTED, AS WILL ROOMS 227 & 229.
 29. REFER TO ARCHITECTURAL ELEVATIONS FOR SCONCE & PANEL MOUNTING HEIGHTS.
 30. VERIFY WITH OWNER AND IHG FOR:
A) MANUFACTURER AND CATALOG NUMBER AS WELL AS MOUNTING STRIP AND CONNECTIONS OF POWER AND DATA STRIP.
B) WHETHER THE TELEPHONE ALSO CONNECTS TO POWER/DATA STRIP OR HAS A SEPARATE CONNECTION TO THE WALL.

ROUGH-IN NOTE:
ELECTRICAL CONTRACTOR SHALL ROUGH-IN ONE UNIT OF EACH ROOM TYPE AND RECEIVE WRITTEN APPROVAL FOR EACH ROOM TYPE FROM THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH ANY OTHER UNIT OF THAT TYPE.

RECEPTACLE PLACEMENT NOTE:
ELECTRICAL CONTRACTOR SHALL POSITION RECEPTACLES BEHIND FURNITURE AS MUCH AS FEASIBLE. TWO RECEPTACLES OF THE SITTING & SLEEPING AREAS OF UNITS ARE REQUIRED BY CODE TO BE ACCESSIBLE.

APPROVAL

Pueblo, CO

PROJ. MGR.

208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.386.8197
Fax: 605.582.3894

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ARCHITECT:

LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

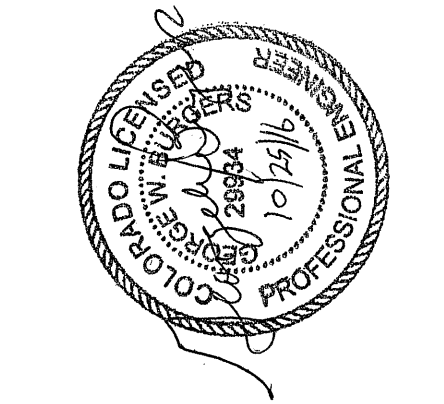
GEORGE W. BURGERS, P.E.
THE ELECTRICAL ENGINEER
469 W. LOOKOUT DR., PUEBLO, CO 81007
PH: 719-647-1987

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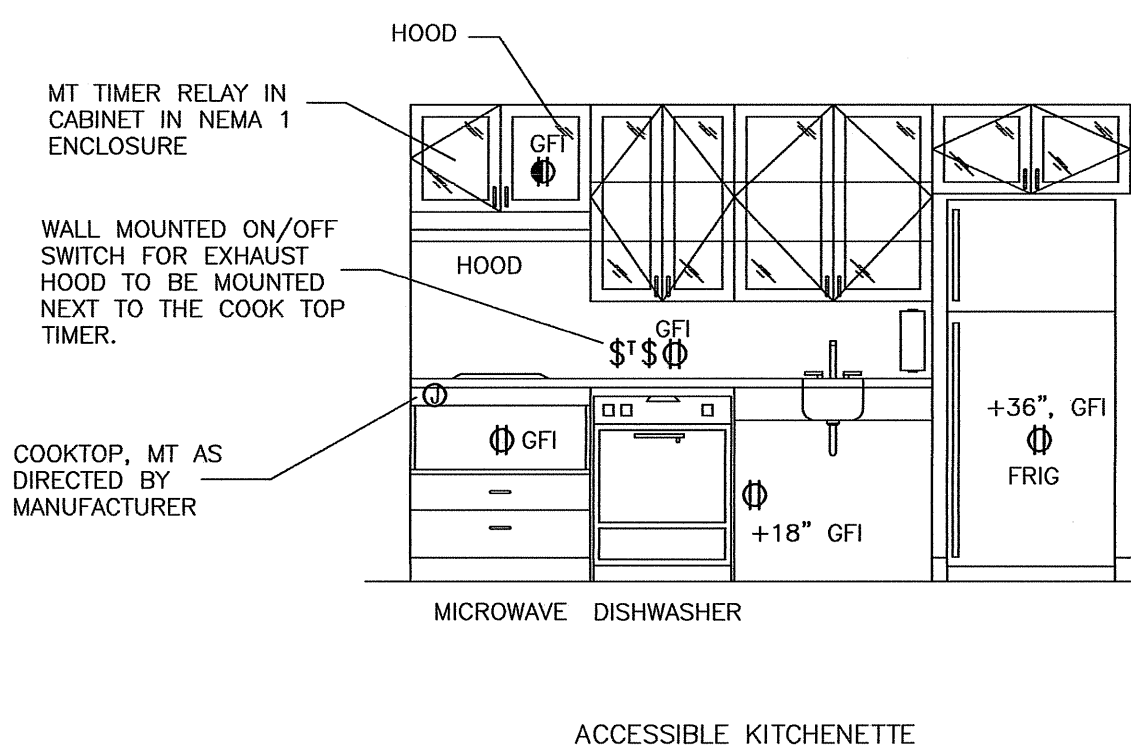
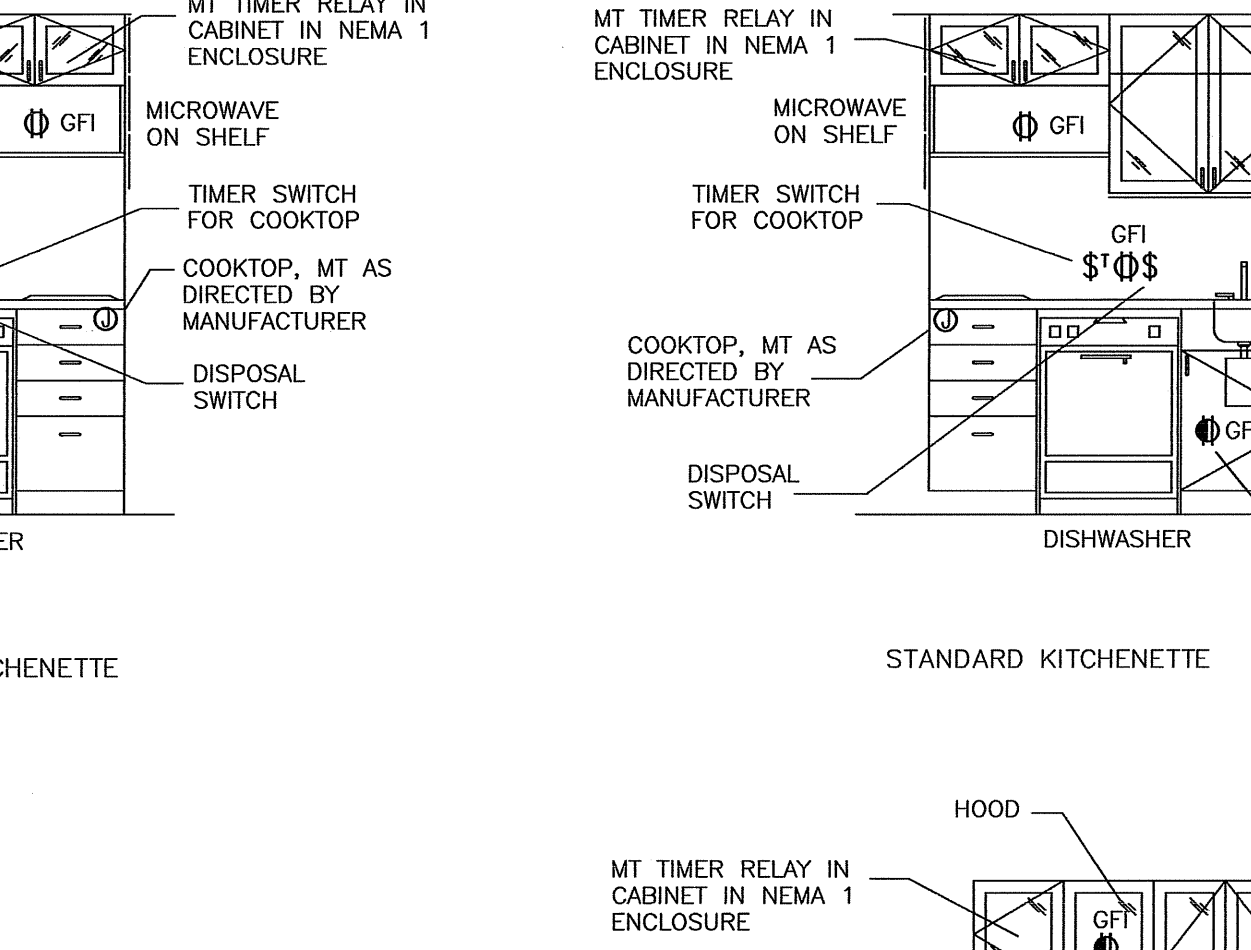
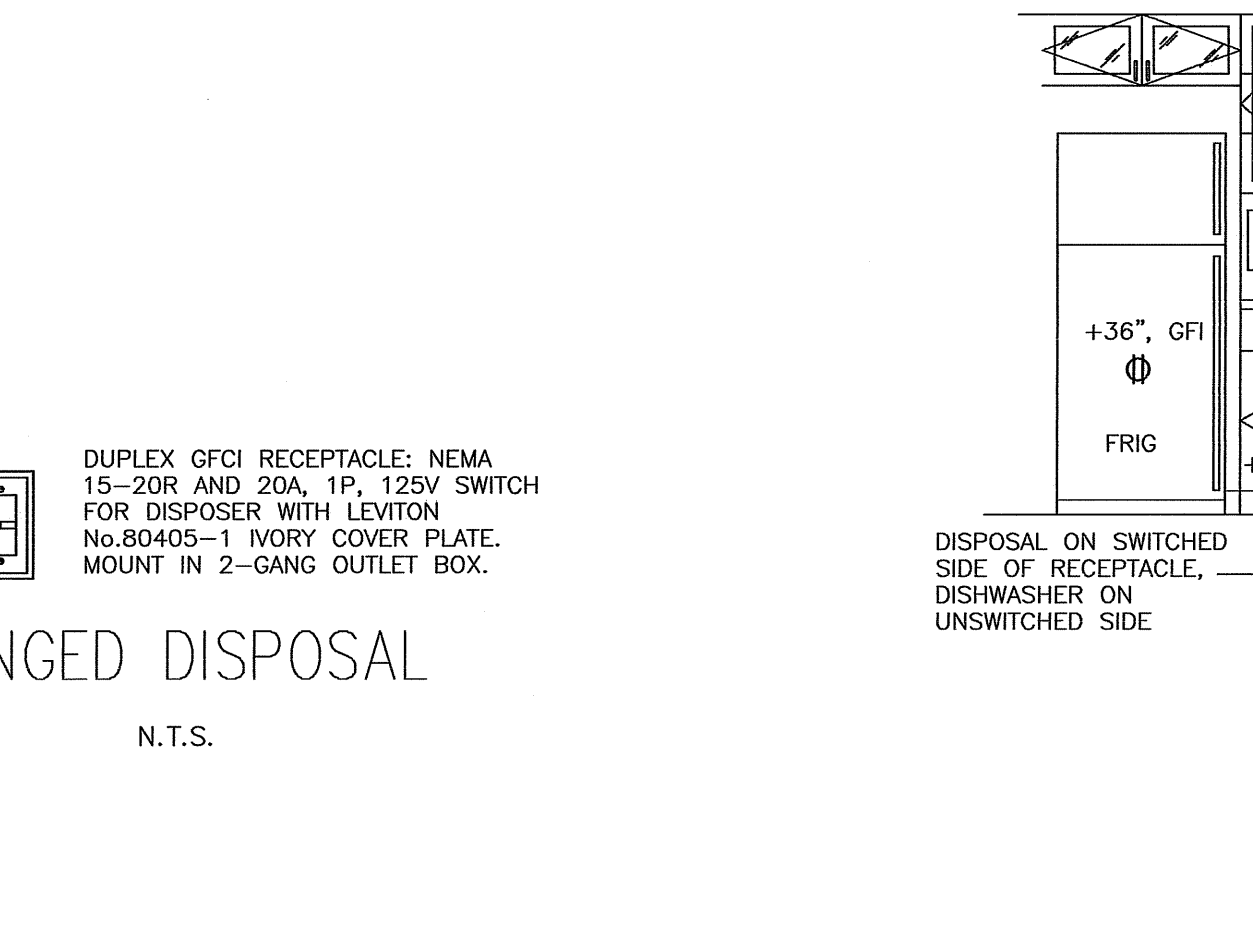
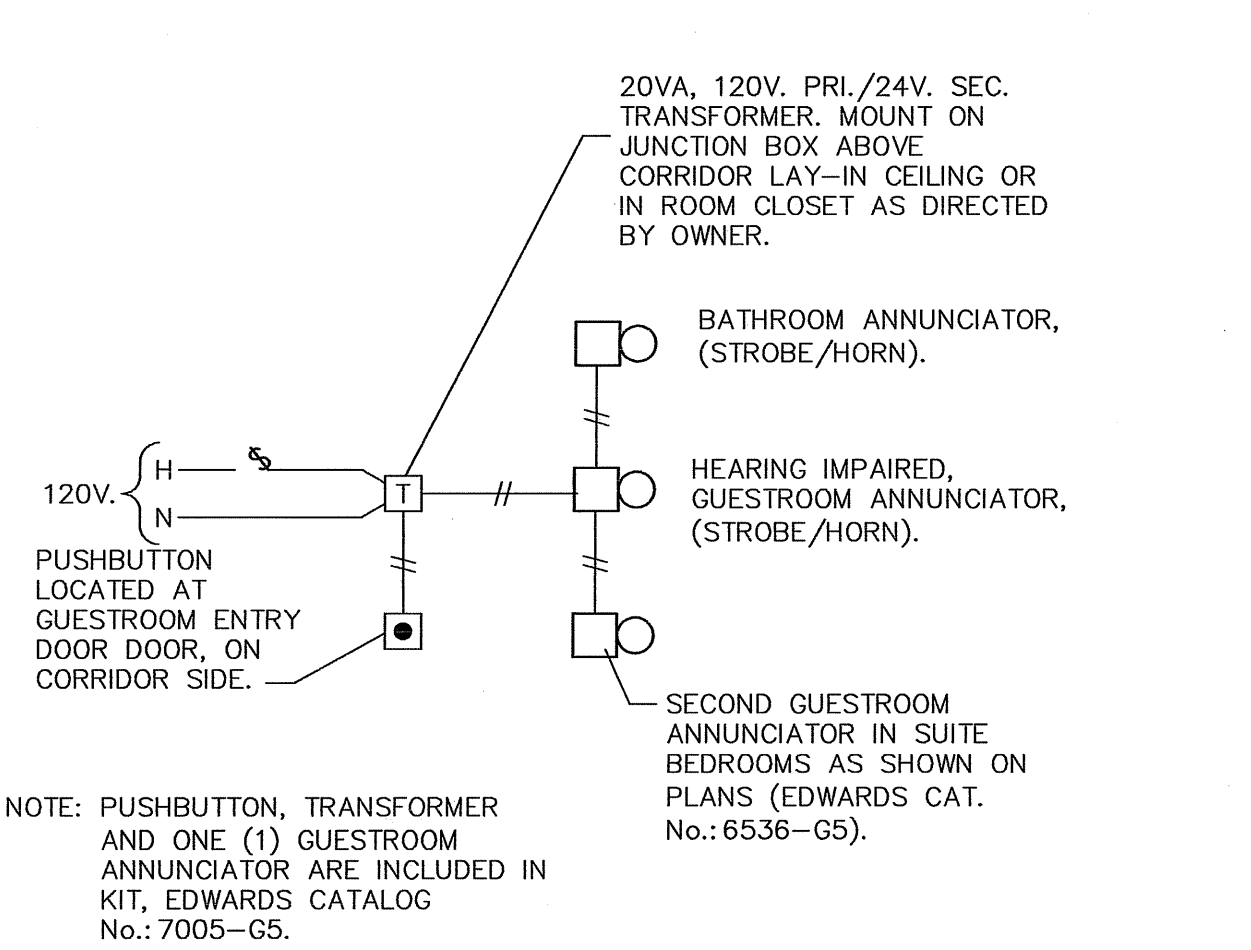
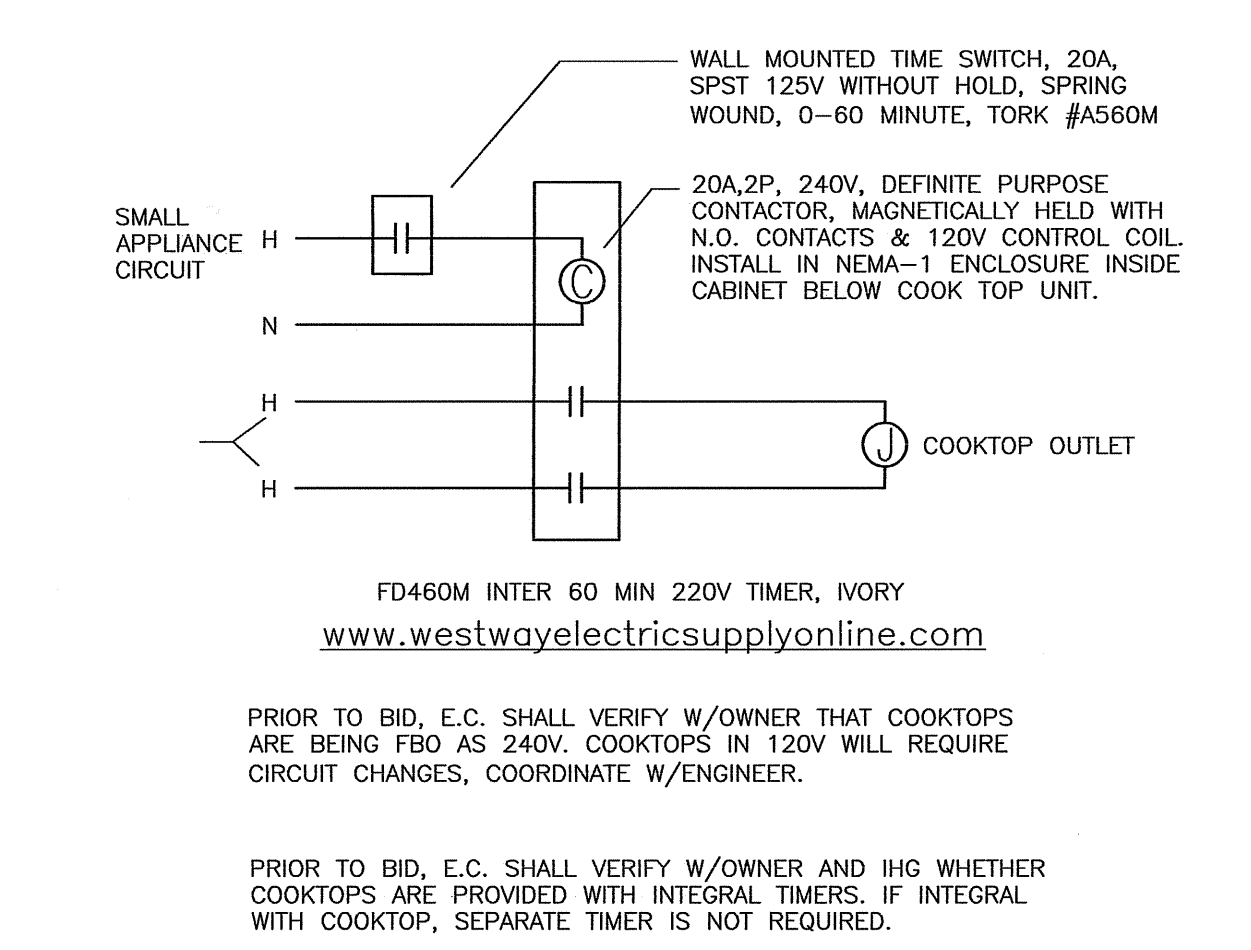
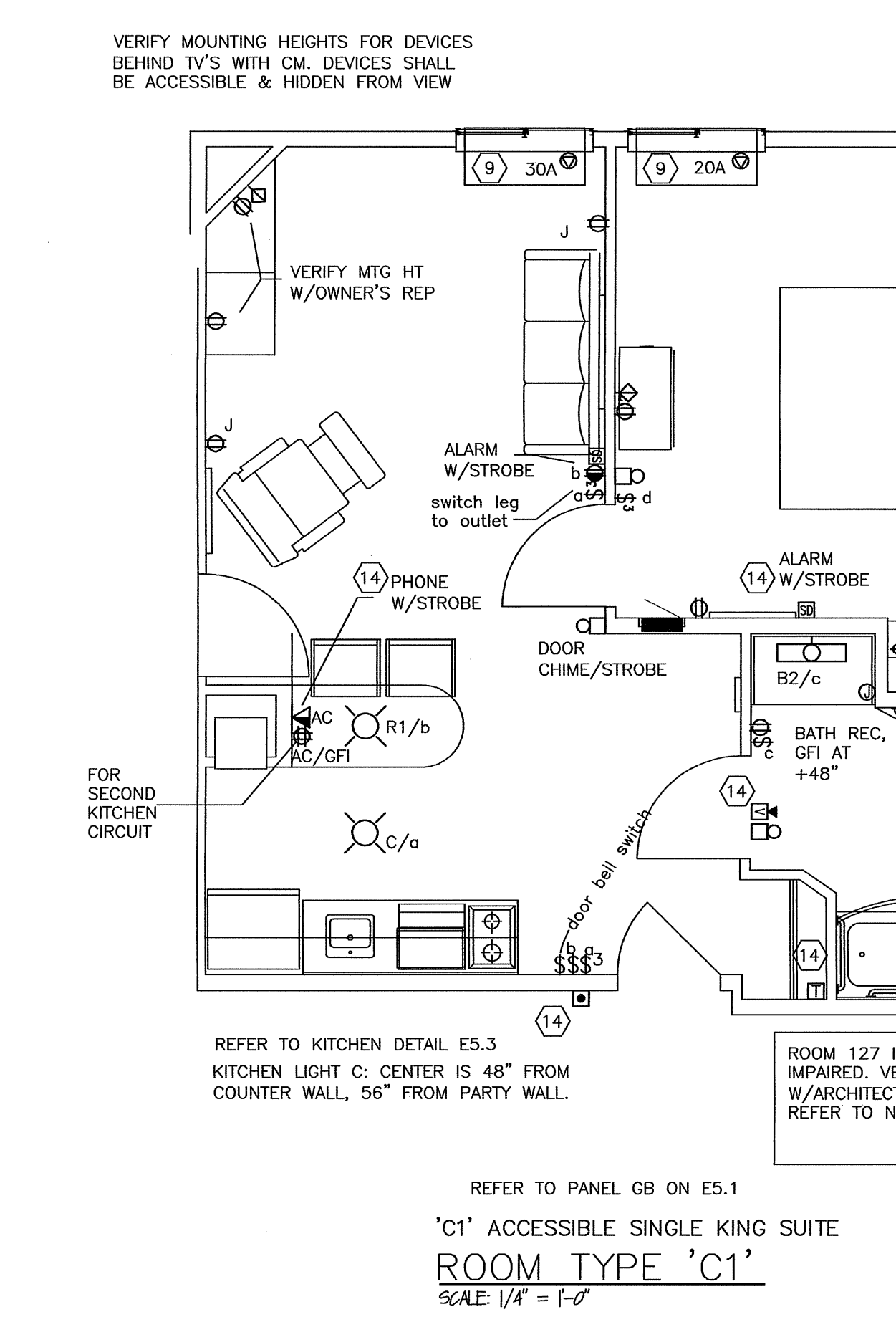
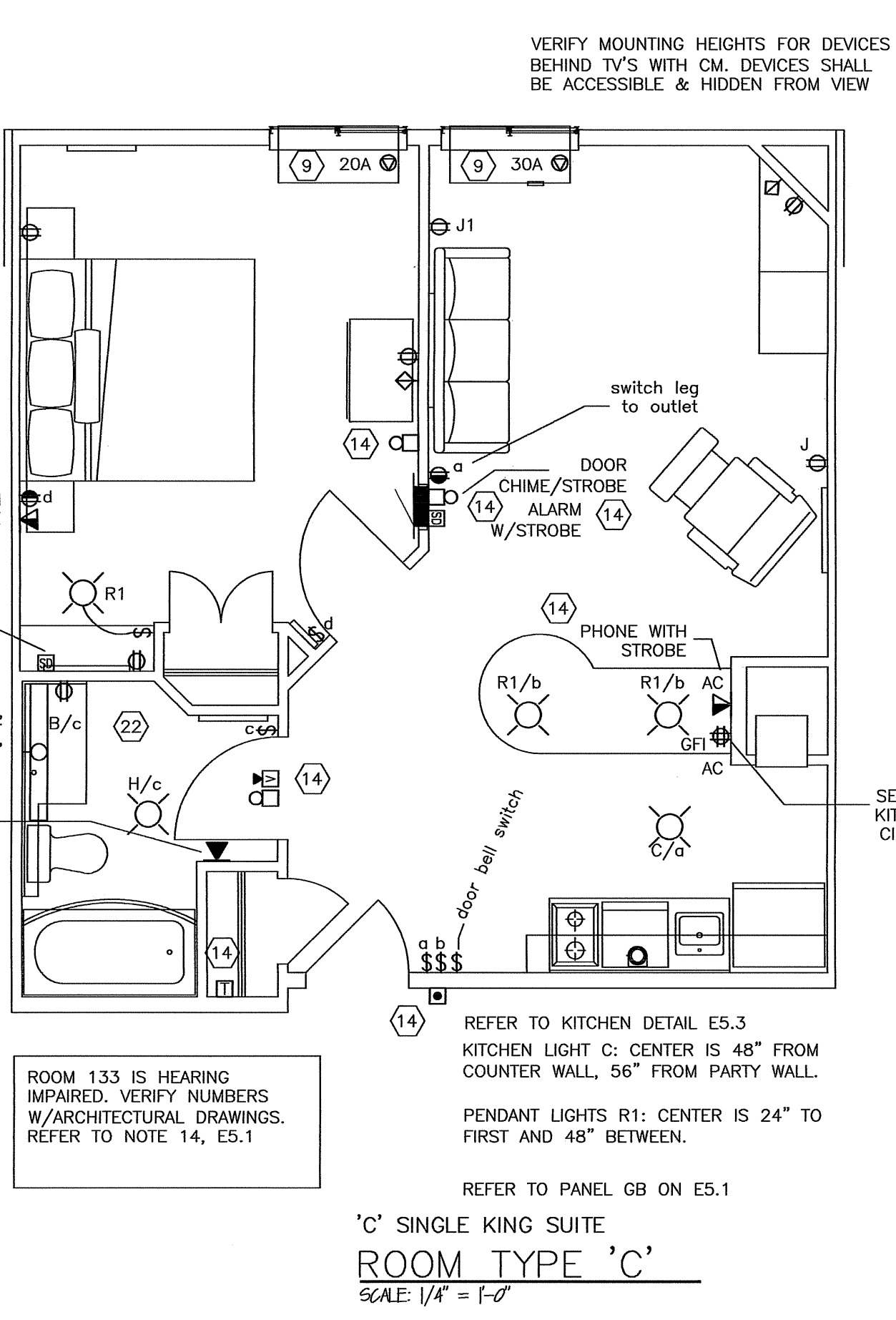
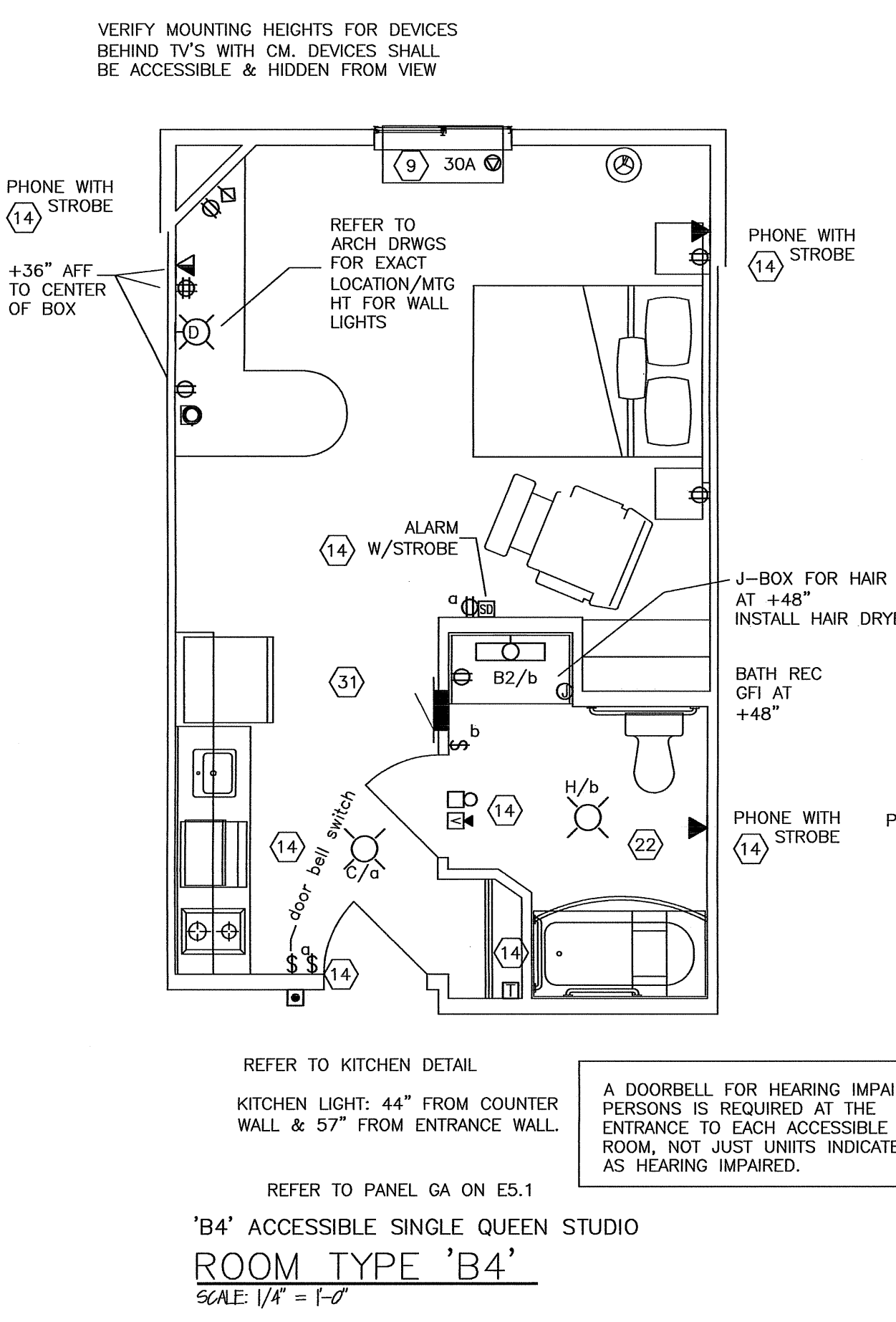
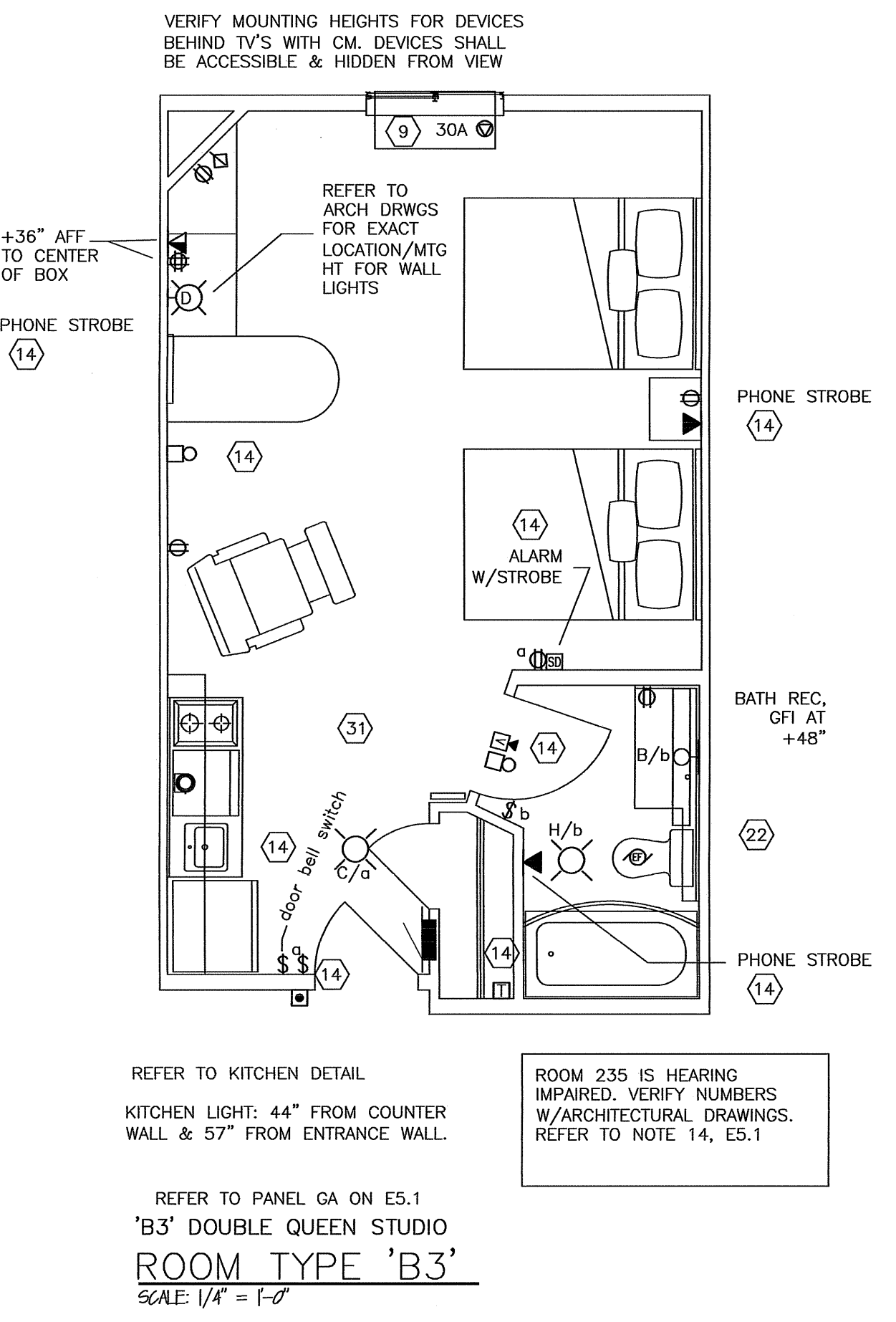
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Enlarged Unit Electrical Plans

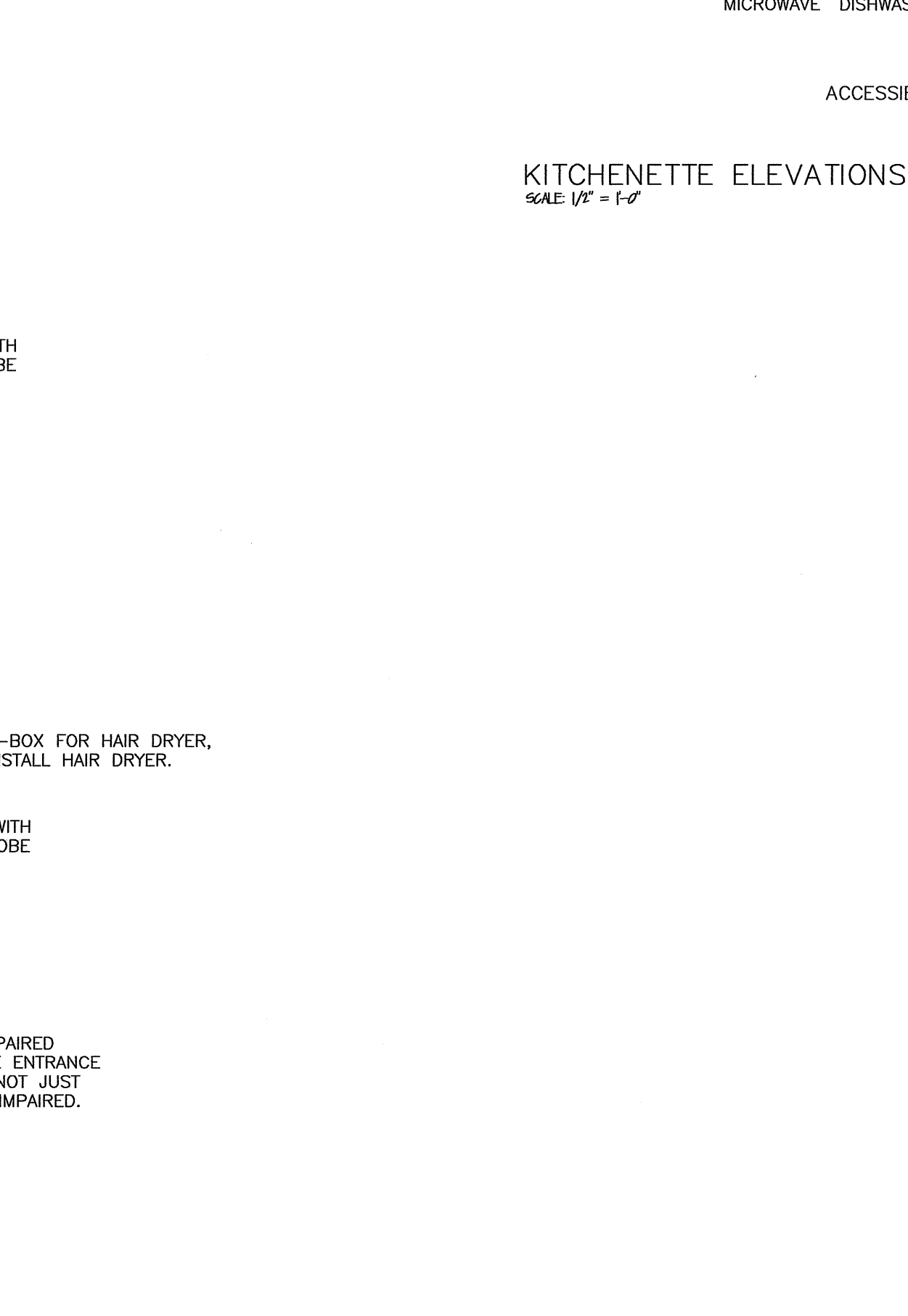
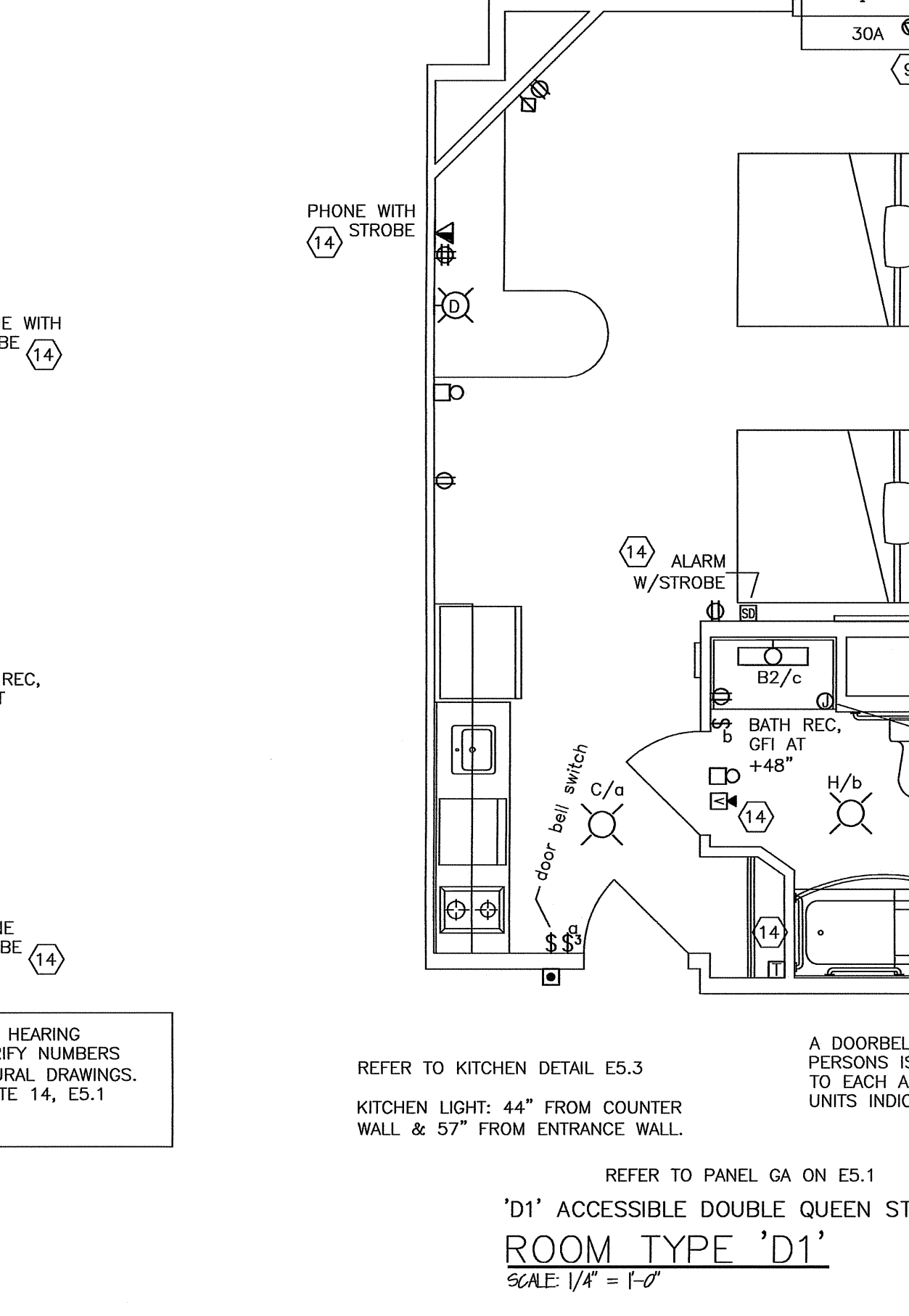
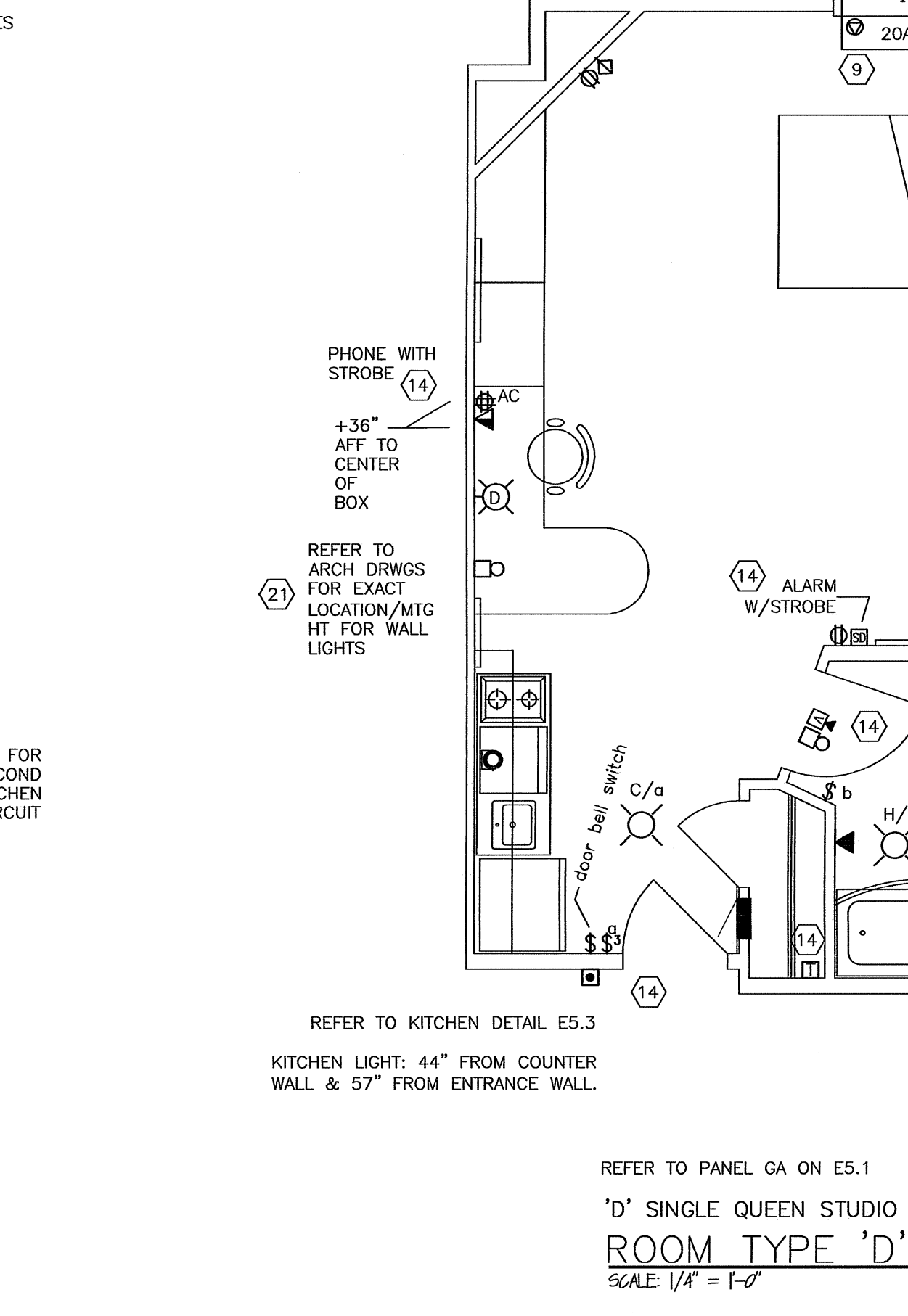
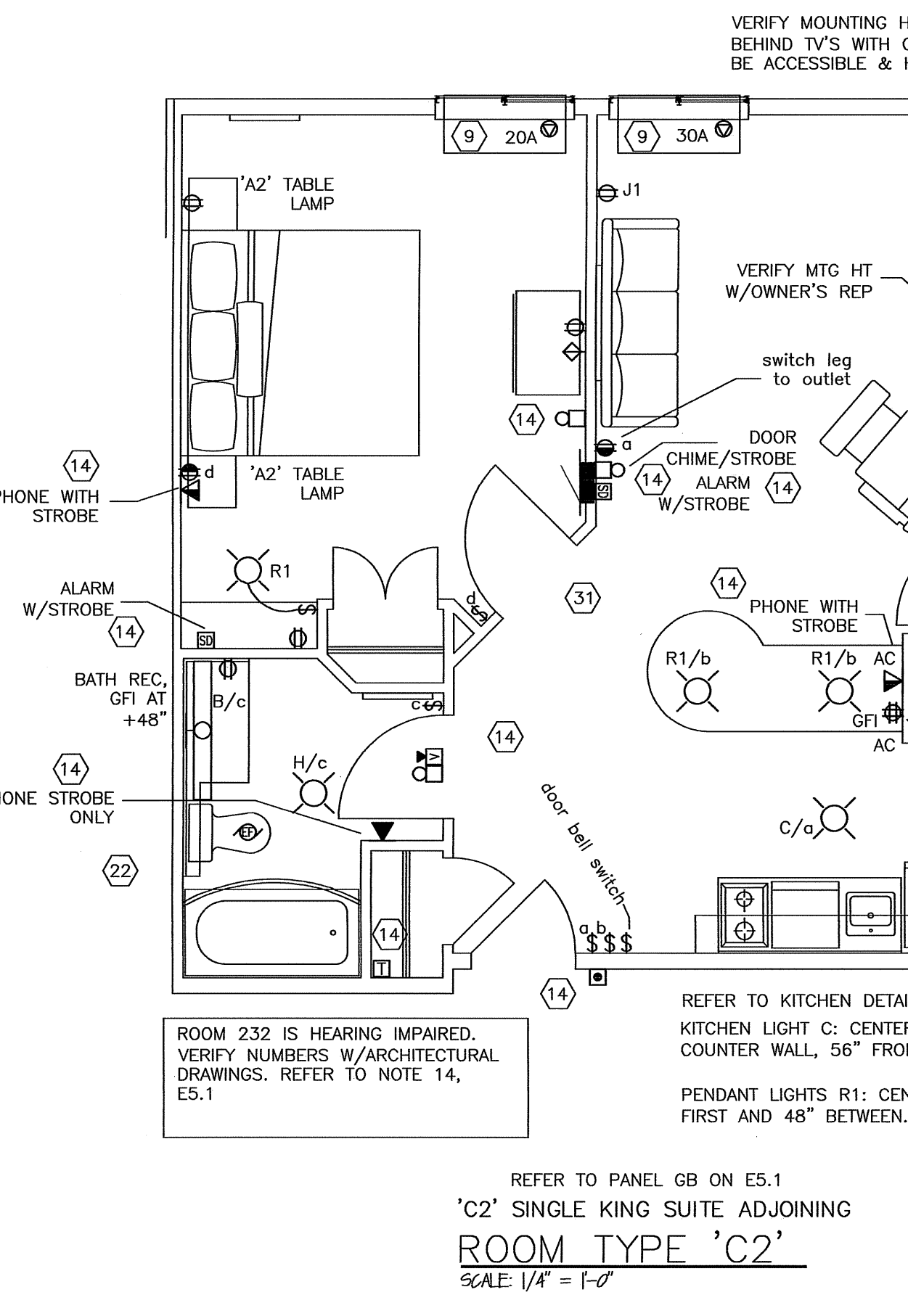
PROJECT NO.	W16006
DRAWN BY:	jb
CHECKED BY:	GWB
DATE:	10.21.2016
SHEET:	E5.1



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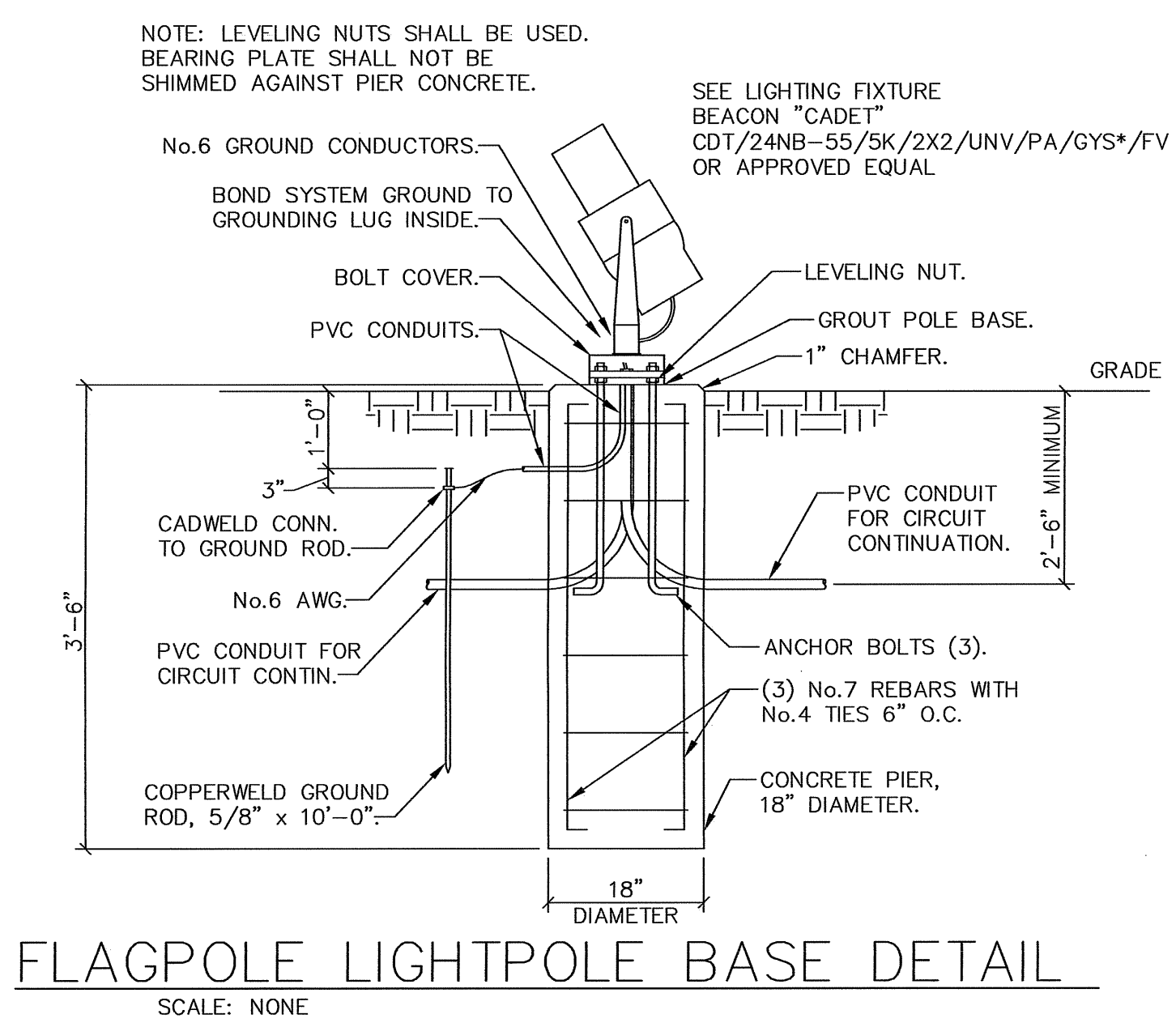
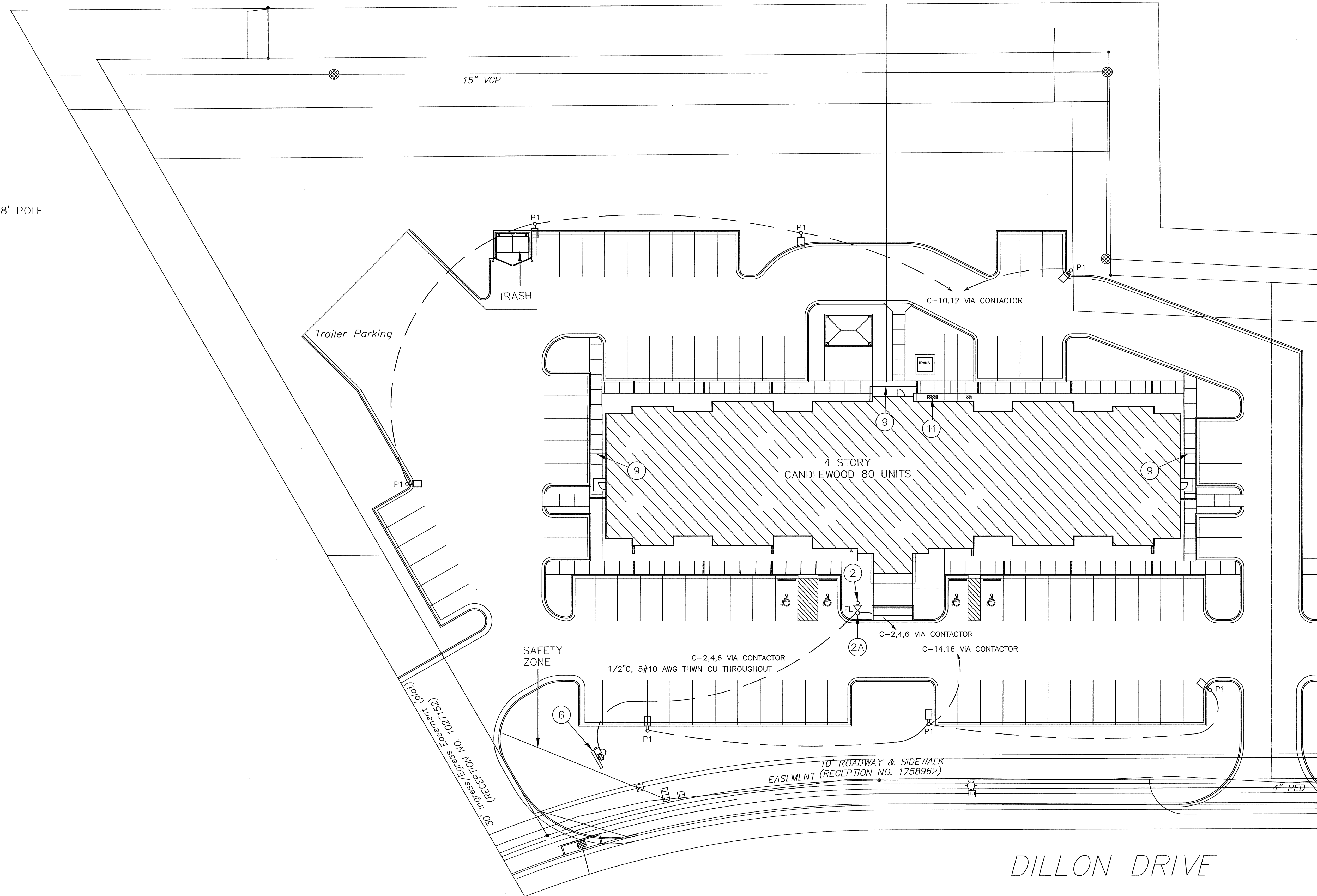
KITCHENETTE ELEVATIONS
SCALE 1/4" = 1'-0"



APPROVAL

KEYNOTES : ○

- 2. FLAG POLE
- 2A. FLAG POLE SPOTLIGHT ON 8' POLE
- 6. MONUMENT SIGN
- 9. CANOPY LINE ABOVE
- 11. ELECTRICAL BOX



FLAGPOLE LIGHTPOLE BASE DETAIL
SCALE: NONE

SITE ELECTRICAL PLAN
SCALE 1" = 10'-0"

ALL LUMINAIRES MOUNTED EXTERIOR OF THE BUILDING SHALL BE PEC CONTROLLED FOR DUSK TO DAWN OPERATION WITH ELECTRONIC ASTRONOMIC TIME CLOCK CONTROL, PREVENTING OPERATION FROM 1 HOUR AFTER DAWN UNTIL ONE HOUR PRIOR TO SUNSET.

APPROVAL

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CANDLEWOOD SUITES
Pueblo, CO

PROJ. MGR.

PRO GROUP INC.
PROPERTY DEVELOPMENT REALTY

208 E. Holly Boulevard
Brandon, South Dakota 57005
Phone: 605.336.8197
Fax: 605.582.3894

ARCHITECT:

LES ROWLAND
212 E. Holly Boulevard
Brandon, South Dakota 57005

GEORGE W. BURGERS, P.E.
The ELECTRICAL ENGINEER
448 W. LOOKOUTER FIELD WEST, CO 81607
PH: 719-647-1997

SHEET NAME: **Site Electrical Plan**

PROJECT NO. **W16006**

DRAWN BY: **jb**

CHECKED BY: **GWB**

DATE: **10.21.2016**

SHEET: **E6.1**