

EL CENTRO BEHAVIORAL HEALTH CLINIC

120 N. 8TH STREET, EL CENTRO, CA 92243

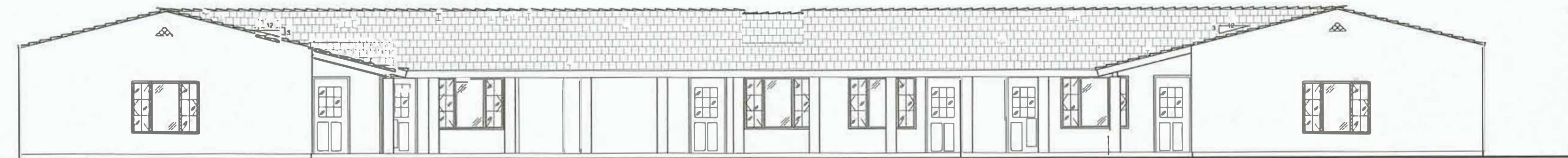
GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF ALL APPLICABLE BUILDING CODES, THE AMERICANS WITH DISABILITIES ACT, AS WELL AS ALL OTHER LOCAL GOVERNING CODES AND ORDINANCES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR THE REPAIR OR REPLACEMENT OF UTILITIES AND/OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK.
- CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. ALL DEBRIS SHALL BE REMOVED FROM PREMISES, AND ALL AREAS SHALL BE LEFT IN A BROOM-CLEAN CONDITION AT ALL TIMES. THE CONTRACTOR SHALL LOCATE AND MAINTAIN A TRASH BIN AT THE SITE. SUCH BIN SHALL BE OF ADEQUATE DIMENSION TO KEEP THE SITE CLEAN AT ALL TIMES. THE BIN SHALL BE REMOVED AND EMPTIED AS REQUIRED. DUST RESULTING FROM SALVAGE, DEMOLITION AND REMOVAL WORK SHALL BE CONTROLLED TO PREVENT THE IMPOSITION OF A NUISANCE OR HAZARDOUS CONDITION TO THE ADJOINING PORTION OF THE PROJECT. THE USE OF WATER WILL NOT BE PERMITTED WHEN SUCH USE WOULD RESULT IN HAZARDOUS OR OBJECTIONABLE CONDITIONS.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES. FIRE EXTINGUISHERS (OTHER THAN THOSE TO BE INSTALLED UNDER THE GENERAL CONTRACT) SHALL BE PROVIDED ON SITE AT ALL TIMES. CONTRACTOR SHALL PROVIDE ALL REQUIRED PROTECTION, INCLUDING, BUT NOT LIMITED TO, SHORING, BRACING, AND ALL SUPPORTS NECESSARY TO MAINTAIN OVERALL STRUCTURAL INTEGRITY OF THE BUILDING. ALL DEMOLITION AND CUTTING SHALL BE PERFORMED IN A MANNER & BY METHODS WHICH ENSURE AGAINST DAMAGE TO EXISTING WORK.
- NO STRUCTURAL MEMBERS SHALL BE CUT TO ACCEPT PIPES, VENTS, DUCTS, ETC., EXCEPT AS DETAILED OR SPECIFIED HEREIN.
- ALL ELECTRICAL, MECHANICAL, AND PLUMBING WORK SHALL CONFORM TO THE REQUIREMENTS OF LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION.
- ALL GLASS AND GLAZING SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AS WELL AS THE U.S. CONSUMER PRODUCT SAFETY COMMISSION, SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS (47 FR, 13516 TITLE #16, CHAPTER 11, PART 1201).
- PROVIDE ATTIC DRAFT STOPS AND VENTILATION IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES.
- EXTERIOR OPENINGS SHALL COMPLY WITH ALL SECURITY REQUIREMENTS AS OUTLINED IN ALL LOCAL BUILDING CODES AND/OR ORDINANCES.
- CONTRACTOR SHALL ASSIST OWNER IN OBTAINING "CERTIFICATE OF OCCUPANCY" OR "OCCUPANCY PERMIT" AS NECESSARY.
- GENERAL CONTRACTOR SHALL SEAL ALL GAPS, HOLES, AND CRACKS IN THE BUILDING CONSTRUCTION AS REQUIRED TO CONTROL INFILTRATION OF INSECTS AND RODENTS.
- THE ARCHITECT SHALL HAVE NO CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES; SAFETY PRECAUTIONS IN CONNECTION WITH THE PROJECT; CONTRACTORS SCHEDULES OR FAILURE TO CARRY OUT THE PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS; ACTS OR OMISSIONS OF THE CLIENT, CONTRACTORS, SUB-CONTRACTORS, OR THEIR AGENTS OR EMPLOYEES PROVIDING SERVICES OR PERFORMING WORK ON THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL DRAWINGS AND NOTIFYING THE ARCHITECT, ENGINEERS, AND CONSULTANTS OF ANY CONFLICT IN THE DRAWINGS AND REQUESTING CLARIFICATION OR ADDITIONAL INFORMATION AS NEEDED.
- THE DISCHARGE OF POLLUTANTS TO ANY STORM DRAINAGE SYSTEM IS PROHIBITED. NO SOLID WASTE, PETROLEUM BY PRODUCTS, SOIL PARTICULATE CONSTRUCTION WASTE MATERIALS, OR WASTEWATER GENERATED ON CONSTRUCTION SITES BY CONSTRUCTION ACTIVITIES SHALL BE PLACED, CONVEYED OR DISCHARGED INTO THE STREET, GUTTER, OR STORM DRAIN SYSTEM.
- PORTABLE FIRE EXTINGUISHERS WILL BE INSTALLED PER SECTION 906
- NON-OSHPD-3 PROJECT

DEFERRED SUBMITTALS

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL (PER CBC 2019 SEC. 107.3.4.1).

LIST OF DEFERRED SUBMITTALS:
1. N/A



BUILDING CODE ANALYSIS

SYMBOLS

DETAIL REFERENCE	1	DETAIL REFERENCE
	A-1	SHEET NUMBER
ELEVATION REFERENCE	1	ELEVATION NUMBER
	A-1	SHEET NUMBER
SECTION REFERENCE	1	SECTION NUMBER
	A-1	SHEET NUMBER
DOOR REFERENCE	1	DOOR NUMBER
WINDOW REFERENCE	1	WINDOW NUMBER
ROOM REFERENCE	101	ROOM NUMBER
NOTE REFERENCE	1	REFERENCE NOTE
COLOR / FINISH REFERENCE	P-1	SEE COLOR FINISH NOTES OR SCHEDULE SHEET
REVISION REFERENCE	1	REVISION NUMBER
RESTROOM ACCESSORY REFERENCE	A	RESTROOM ACCESSORY NUMBER

PROJECT DATA

A NON-OSHPD-3 PROJECT

ZONING:
CC - CIVIC CENTER

LEGAL DATA:
APN #: 053-095-002

OCCUPANCY:
B S-1

TYPE OF CONSTRUCTION: TYPE VB, NON-SPRINKLERED

NO. OF STORIES: ONE - STORY

BLDG. HEIGHT: 12'

SCOPE OF WORK:
PARTIAL DEMO & REMODEL OF THE EL CENTRO BEHAVIORAL HEALTH CLINIC, LOCATED ON 120 N. 8TH STREET.

LOT COVERAGE:
NET LOT AREA 33,600
BUILDING FOOTPRINT = 9,975 S.F.
LOT COVERAGE = 9,975 / 33,600 = .3%

FLOOR AREA:
AREA FACTOR INCREASE = .27% (SEE SHEET X1.0 FOR CALCS.)
ALLOWABLE AREA WITH INCREASE FACTOR = 11,430 S.F.
OFFICES = 8,300 S.F.
COVERED WALKS = 1,950 S.F.
TOTAL = 10,250 S.F.
AREA OF REMODEL = 10,250 S.F.

OCCUPANT LOAD: 119

DEVELOPMENT STANDARDS

BUILDING SETBACKS:
SETBACK FROM STREETS
FRONT - 0 FT
REAR (ABBUTTING NON-RES.) - 0 FT
SIDE YARD SETBACKS:
SIDE (INTERIOR SIDE) - 0 FT
SIDE (EXTERIOR SIDE) - 0 FT

MAX LOT: NO REQ.
[E.] LOT COVERAGE: .31%

MAXIMUM BUILDING HEIGHT: 65 FT
MAX. FAR: .50

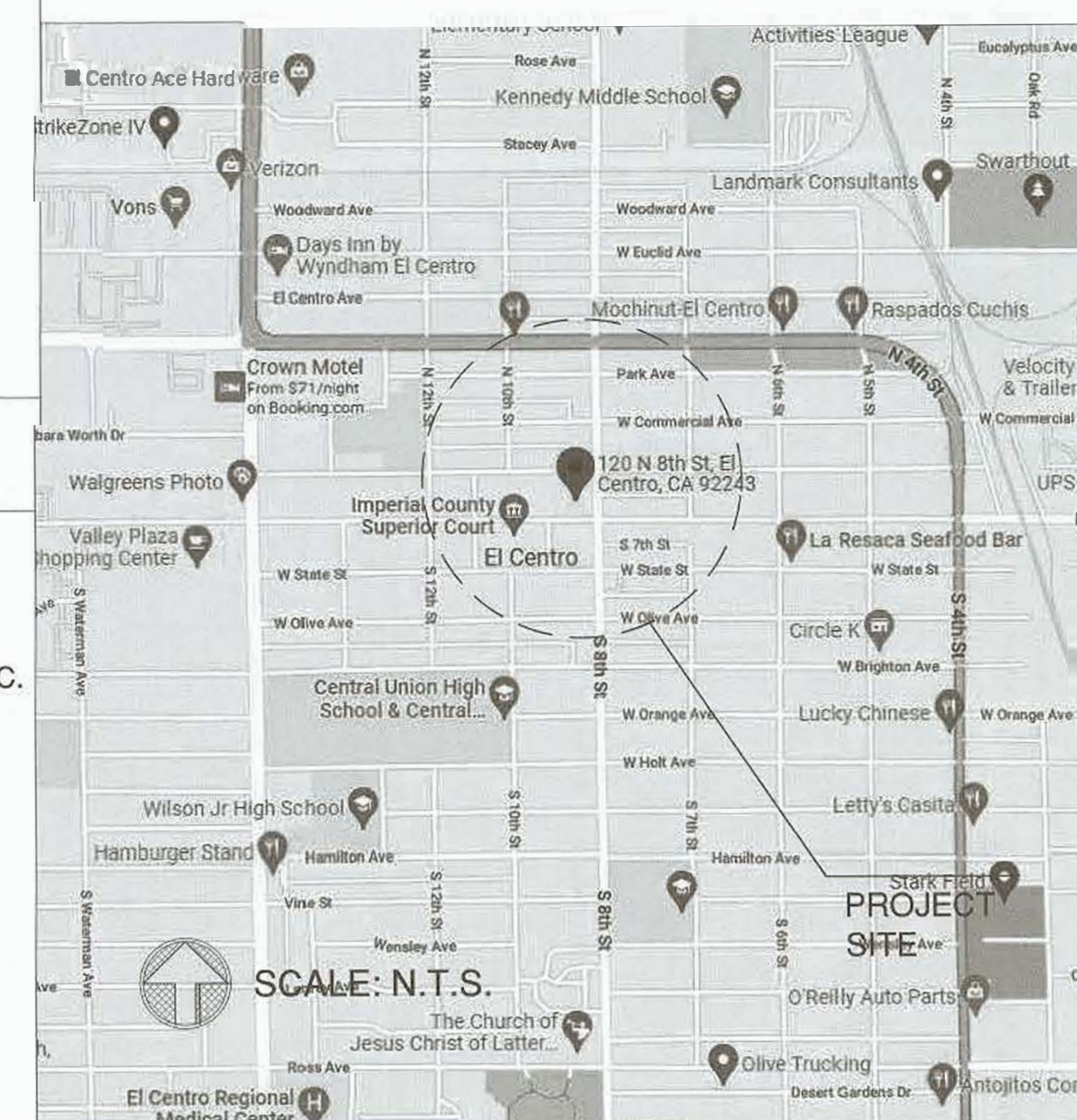
PARKING SPACES REQUIRED/ PROVIDED:
EXISTING PARKING STALLS TO REMAIN.
TWO TO BE CONVERTED INTO A.D.A.

CURRENT CODES

ALL CONSTRUCTION SHALL COMPLY WITH:

- CBC 2019 EDITION
- CEC 2019 EDITION
- CPC 2019 EDITION
- CMC 2019 EDITION
- CA ENERGY CODE 2019 EDITION
- CA FIRE CODE 2019 EDITION
- CA GREEN BUILDING STANDARDS CODE 2019 EDITION

VICINITY MAP



PROJECT TEAM

PROPERTY OWNER:
EL CENTRO BEHAVIORAL HEALTH CLINIC
CITY OF EL CENTRO
120 N. 8TH STREET,
EL CENTRO, CA 92243
TEL:

ARCHITECT: YENNY NG
YENNY NG ARCHITECTS
1524 BROOKHOLLOW DR.,
STE. 6
SANTA ANA, CA 92705
TEL : (714) 426 2920

STRUCTURAL ENGINEER:
SANG LEE
LEE & LEE STRUCTURAL ENG., INC.
3550 WILSHIREBLVD., STE. 480
LOS ANGELES , CA 90010
TEL: (213) 351-0034

M.E.P.: ANTHONY WINSTON III
WINSTON ENGINEERING INC
8605 SANTA MONICA BLVD
STE 63454
WEST HOLLYWOOD, CA 90069
TEL: (951) 902-6600

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ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.

BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8TH STREET, EL CENTRO, CA 92243

COVER SHEET
VICINITY MAP

DATE: 08/01/22
SCALE: 1/4" = 1'-0"
DRAWN: B. M. W.
CHECKED: J. B. W.
SHEET: 1 OF 1



2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

GN-1

**ALL PROPRIETARY PRODUCTS/
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2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2020, Includes August 2019 Supplement)

[illegible]

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[illegible]

BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

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GREEN BUILDING
STANDARDS

DATE	08/01/22
SCALE	
DRAWN	B.M./ L.W.
JOB#	YP22005
SHEET#	

GN-2

AREA JUSTIFICATION

506.1 THE FLOOR AREA OF A BUILDING SHALL BE DETERMINED BASED ON THE TYPE OF CONSTRUCTION, OCCUPANCY CLASSIFICATION, WHETHER THERE IS AN AUTOMATIC SPRINKLER SYSTEM INSTALLED THROUGHOUT THE BUILDING AND THE AMOUNT OF BUILDING FRONTAGE ON PUBLIC WAY OR OPEN SPACE.
PER TABLE 506.2- ALLOWABLE AREA FACTOR (TYPE V-B CONSTRUCTION, NON SPRINKLERED):

B 9,000 SF
S-1 9,000 SF

506.2 ALLOWABLE ARE DETERMINATION. THE ALLOWABLE AREA OF A BUILDING SHALL BE DETERMINED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 506.2.1 THROUGH 505.2.4 AND SECTION 3.

506.2.1 SINGLE OCCUPANCY, ONE-STORY BUILDINGS. THE ALLOWABLE AREA OF A SINGLE-OCCUPANCY BUILDING WITH NO MORE THAN ONE STORY ABOVE GRADE PLANE SHALL BE DETERMINED IN ACCORDANCE WITH EQUATION 5-1

$A_a = A_t + (NS \times I_f)$

WHERE:

A_a = ALLOWABLE AREA (SQUARE FEET).

A_t = TABULAR ALLOWABLE AREA FACTOR (NS, S1, S13R OR S13D VALUE IS APPLICABLE) PER TABLE 506.2.

NS = TABULAR ALLOWABLE AREA FACTOR PER TABLE 506.2 FOR NONSPRINKLERED BLDG

I_f = AREA FACTOR INCREASE DUE TO FRONTAGE (PERCENT) PER SECTION 506.3.

506.3 FRONTAGE INCREASE. EVERY BUILDING SHALL ADJOIN OR HAVE ACCESS TO A PUBLIC WAY TO RECEIVE AN AREA FACTOR INCREASE BASED ON FRONTAGE. AREA FACTOR INCREASE SHALL BE DETERMINED IN ACCORDANCE WITH SECTIONS 506.3.1- 506.3.3.

506.3.1 MINIMUM PERCENTAGE OF PERIMETER. TO QUALIFY FOR AN AREA FACTOR INCREASE BASED ON FRONTAGE, A BUILDING SHALL HAVE NOT LESS THAN 25 PERCENT OF ITS PERIMETER ON A PUBLIC WAY OR OPEN SPACE. SUCH OPEN SPACE SHALL BE EITHER ON THE SAME LOT OR DEDICATED FOR PUBLIC USE AND SHALL BE ACCESSED FROM A STREET OR APPROVED FIRE LANE.

506.3.2 MINIMUM FRONTAGE DISTANCE. TO QUALIFY FOR AN AREA FACTOR INCREASE BASED ON FRONTAGE, THE PUBLIC WAY OR OPEN SPACE ADJACENT TO THE BUILDING PERIMETER SHALL HAVE A MINIMUM DISTANCE (W) OF 20 FEET MEASURED AT RIGHT ANGLES FROM THE BUILDING FACE TO ANY OF THE FOLLOWING:

1-THE CLOSEST INTERIOR LOT LINE.

2-THE ENTIRE WIDTH OF A STREET, ALLEY OR PUBLIC WAY.

3-THE EXTERIOR FACE OF AN ADJACENT BUILDING ON THE SAME PROPERTY.

WHERE THE VALUE OF W IS GREATER THAN 30 FEET, A VALUE OF 30 FEET SHALL BE USED IN CALCULATING THE BUILDING AREA INCREASE BASED ON FRONTAGE, REGARDLESS OF THE ACTUAL WIDTH OF THE PUBLIC WAY OR OPEN SPACE.

506.3.3 AMOUNT OF INCREASE. THE AREA FACTOR INCREASE BASED ON FRONTAGE SHALL BE DETERMINED IN ACCORDANCE WITH EQUATION 5-5:

$I_f = [F/P - 0.25] W/30$ (EQUATION 5-5)

WHERE:

I_f = AREA FACTOR INCREASE DUE TO FRONTAGE.

F = BLDG. PERIMETER (FT) FRONTS ON A PUBLIC WAY OR OPEN SPACE HAVING MIN. DISTANCE OF 20 FT.

P = PERIMETER OF ENTIRE BUILDING (FEET).

W = WIDTH OF PUBLIC WAY OR OPEN SPACE (FEET) IN ACCORDANCE WITH SEC. 506.3.2.

ALLOWABLE AREA CALCULATIONS:

$W = (L_1 \times W_1 + L_2 \times W_2 + L_3 \times W_3) / F$

PERIMETER = 675'

FRONTAGE = 394'

$W = (128 \times 20 + 130 \times 20 + 110 \times 30 + 26 \times 30) / 394$

$W = (2,560 + 2,600 + 3,300 + 780) / 394$

$W = 9,240 / 392 = 23.45$

W=23.45

$I_f = [F/P - .25] W/30$

$I_f = \frac{394}{675} - .25 \times 23.45 / 30$

$I_f = .34 \times 23.45 / 30$

$I_f = .27$

$A_a = A_t + (NS \times I_f)$

$A_a = 9,000 + (9,000 \times .27)$

ALLOWABLE: 11,430 S.F.

ALL PROPRIETARY PRODUCTS/ SPECIFICATIONS SHALL INCLUDE THE FOLLOWING "APPROVED EQUAL OR BETTER" STATEMENT.

ALL KNOWN PROPERTY LINES, EASEMENTS & BUILDINGS, EXISTING & PROPOSED, ARE INDICATED ON THIS DIAGRAMMATIC SITE PLAN.



REVISIONS	DATE	BY	APP'D
1	11/1/22	PLAN DEK	



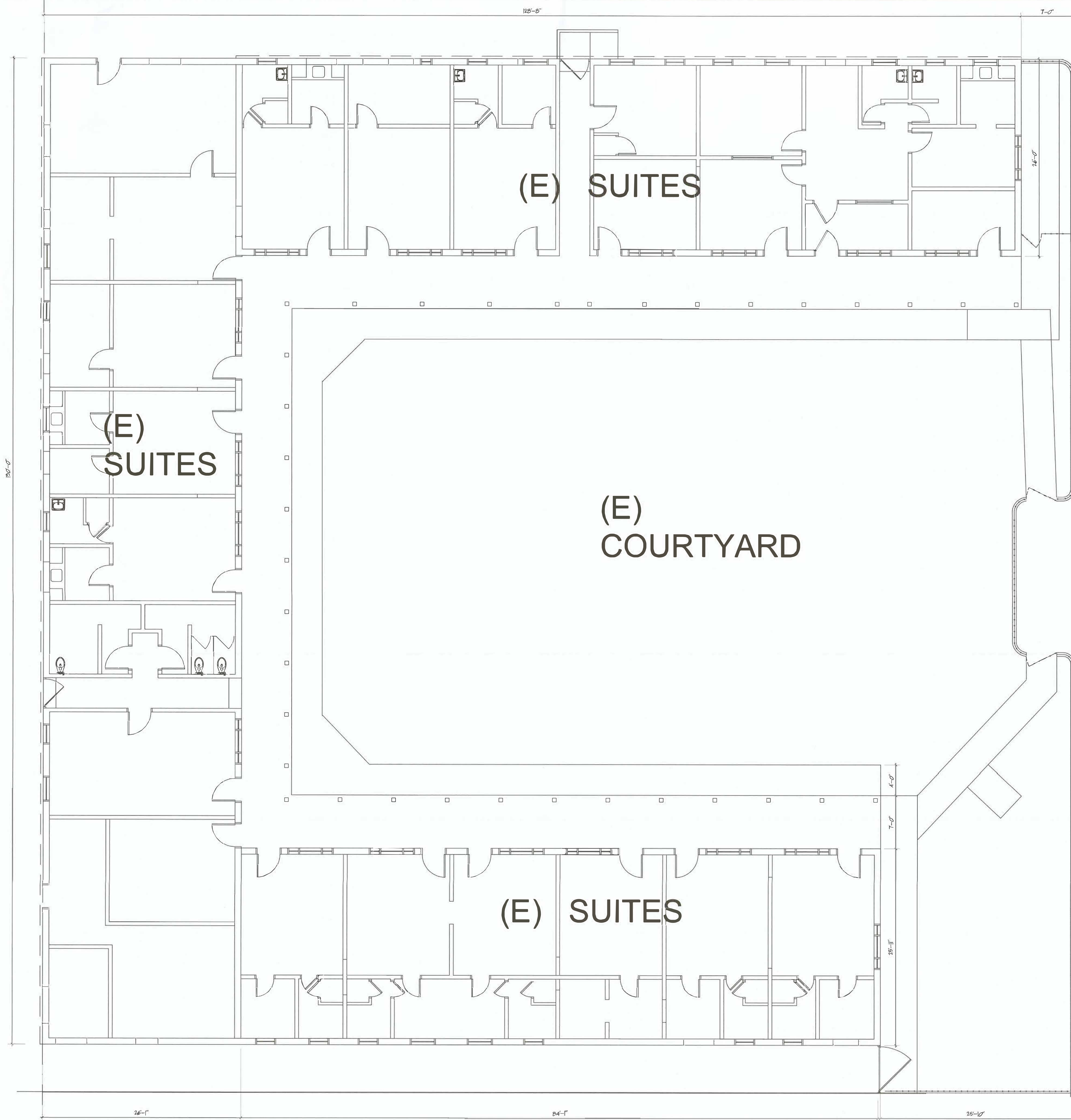
BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

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DIAGRAMMATIC SITE PLAN
FRONTAGE INCREASE

DATE	08/01/22
SCALE	
DRAWN	B.M./L.W.
JOB#	YP22005
SHEET#	

X1.0

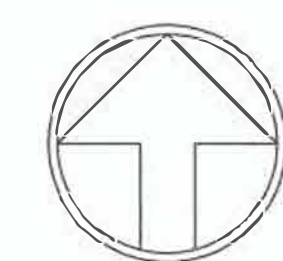


LEGEND:

- ASSUMED PROPERTY LINE
- [Pattern] EXIST. ASPHALT AREAS
- [Pattern] EXIST. LANDSCAPE AREAS
- [Pattern] EXIST. CONCRETE AREAS/SIDEWALK
- [Pattern] EXIST. DIRT AREA

N. 8TH ST.

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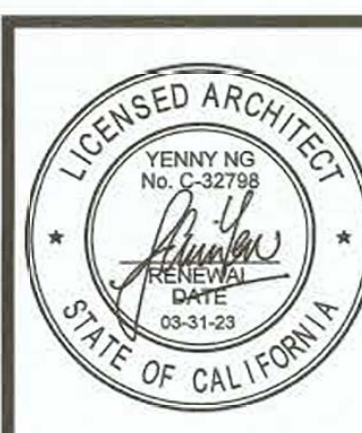
NORTH

EXISTING FLOOR PLAN

SCALE: 3/16" = 1'-0"

1

REVISIONS
11/18/22 PLAN CHECK 1

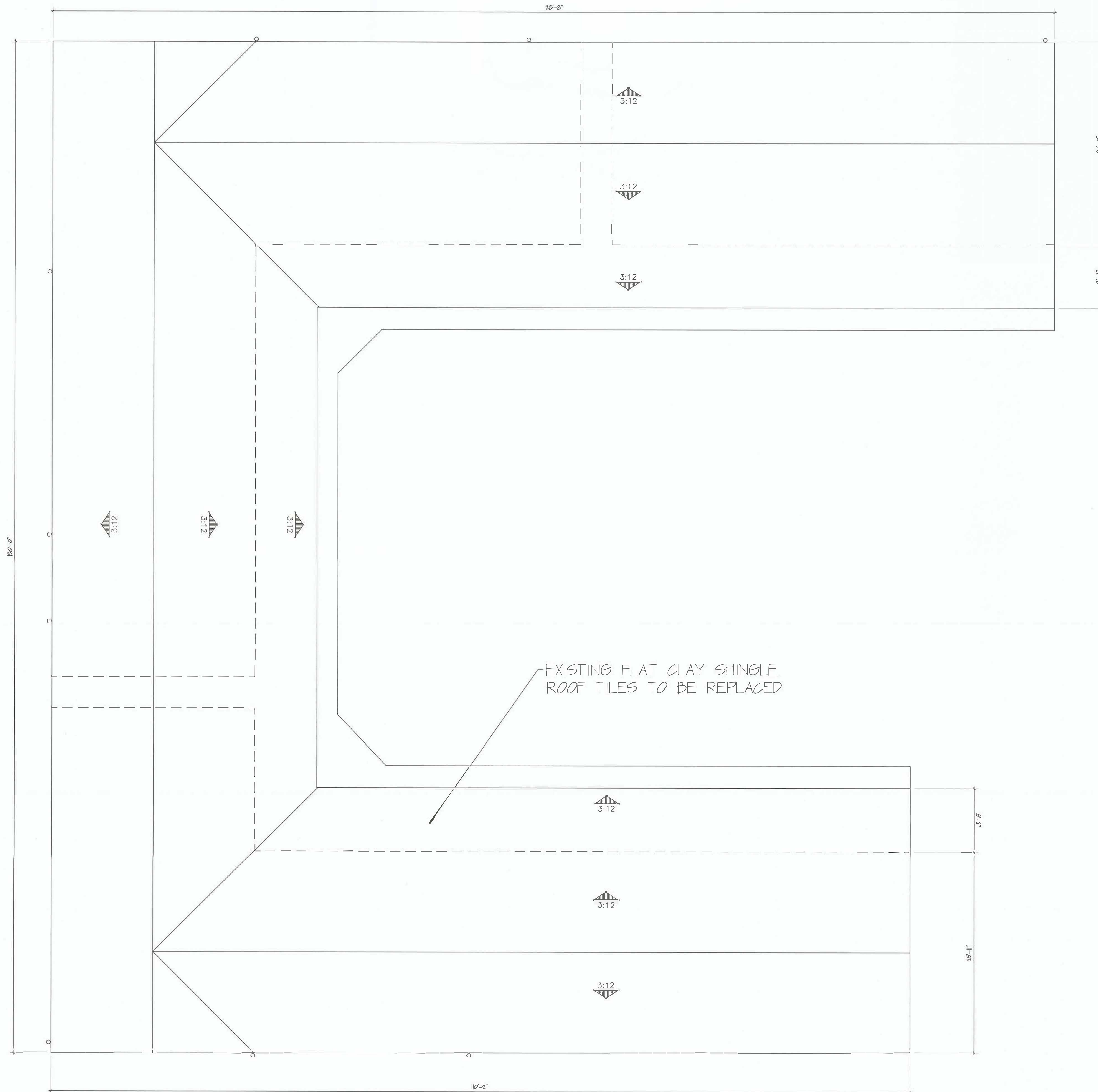


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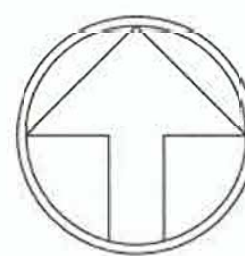
EXISTING
FLOOR PLAN

DATE	08/01/22
SCALE	
DRAWN	B.M./L.W.
JOB#	YP22005
SHEET#	

X2.1

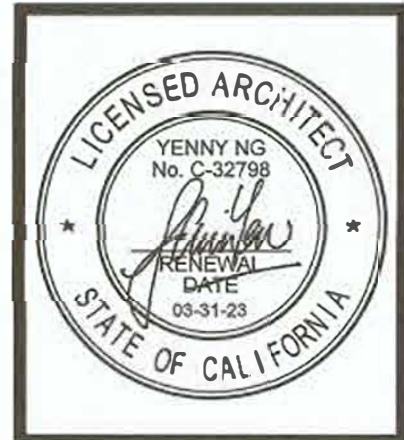


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NORTH

REVISIONS	
1	11/18/22 PLAN CHECK 1



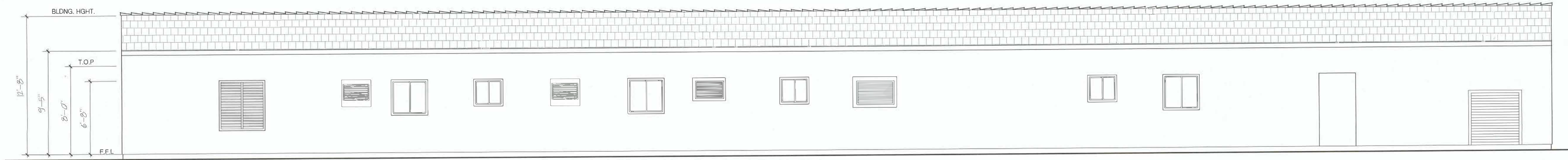
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EXISTING ROOF PLAN

DATE	05/01/22
SCALE	
DRAWN	B.M./L.W.
JOB#	YP22005
SHEET#	

X3.1

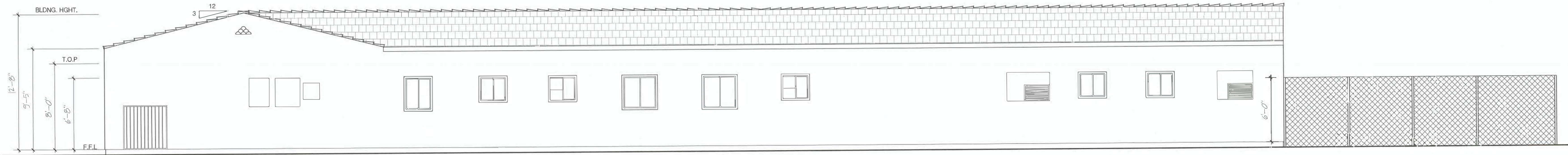
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EXISTING ELEVATION WEST

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

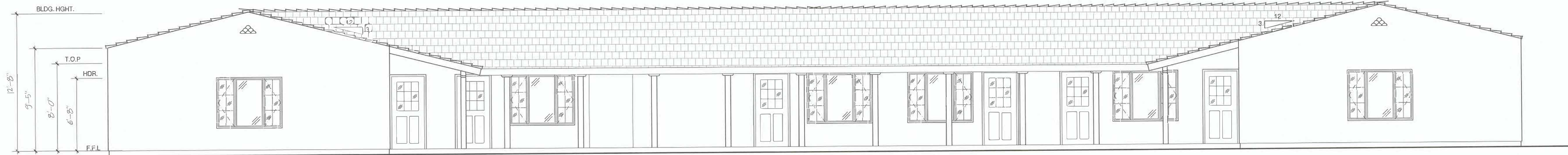
3



EXISTING ELEVATION SOUTH

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

2



EXISTING ELEVATION FRONT EAST

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

1

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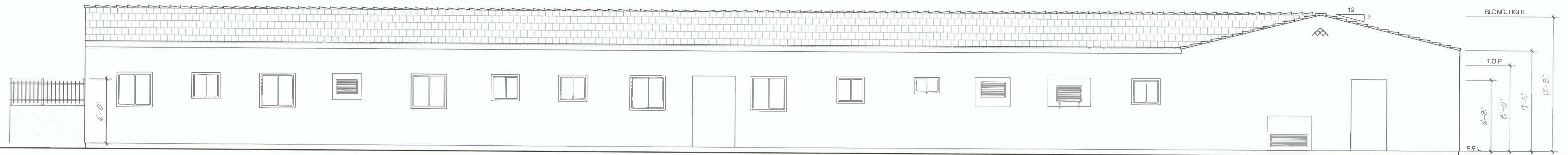
OVERALL
EXISTING ELEVATION

DATE 08/01/22
SCALE
DRAWN B.M./L.W.
JOB# YP22005
SHEET#
X4.1



REVISIONS	DATE	DESCRIPTION
1	11/10/22	PLAN CHECK 1

ALL PROPRIETARY PRODUCTS/
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EXISTING ELEVATION NORTH

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

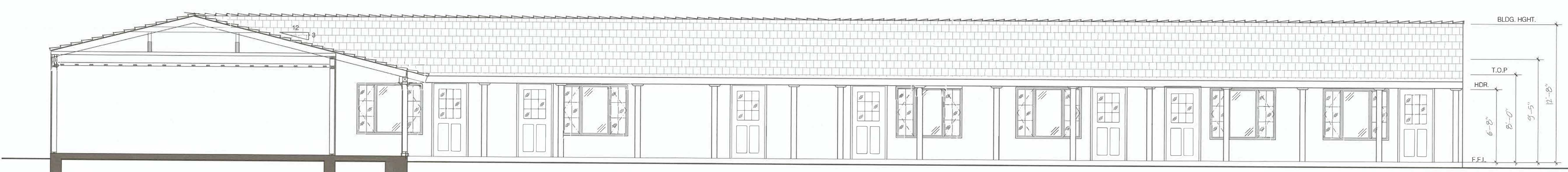
3



EXISTING ELEVATION: COURTYARD FACING SOUTH

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

2

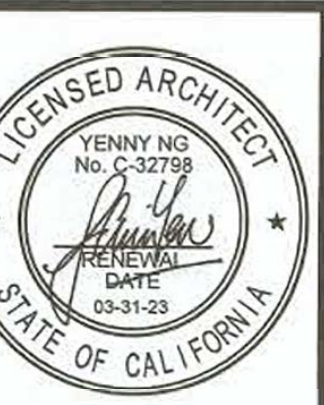


EXISTING ELEVATION: COURTYARD FACING NORTH

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

1

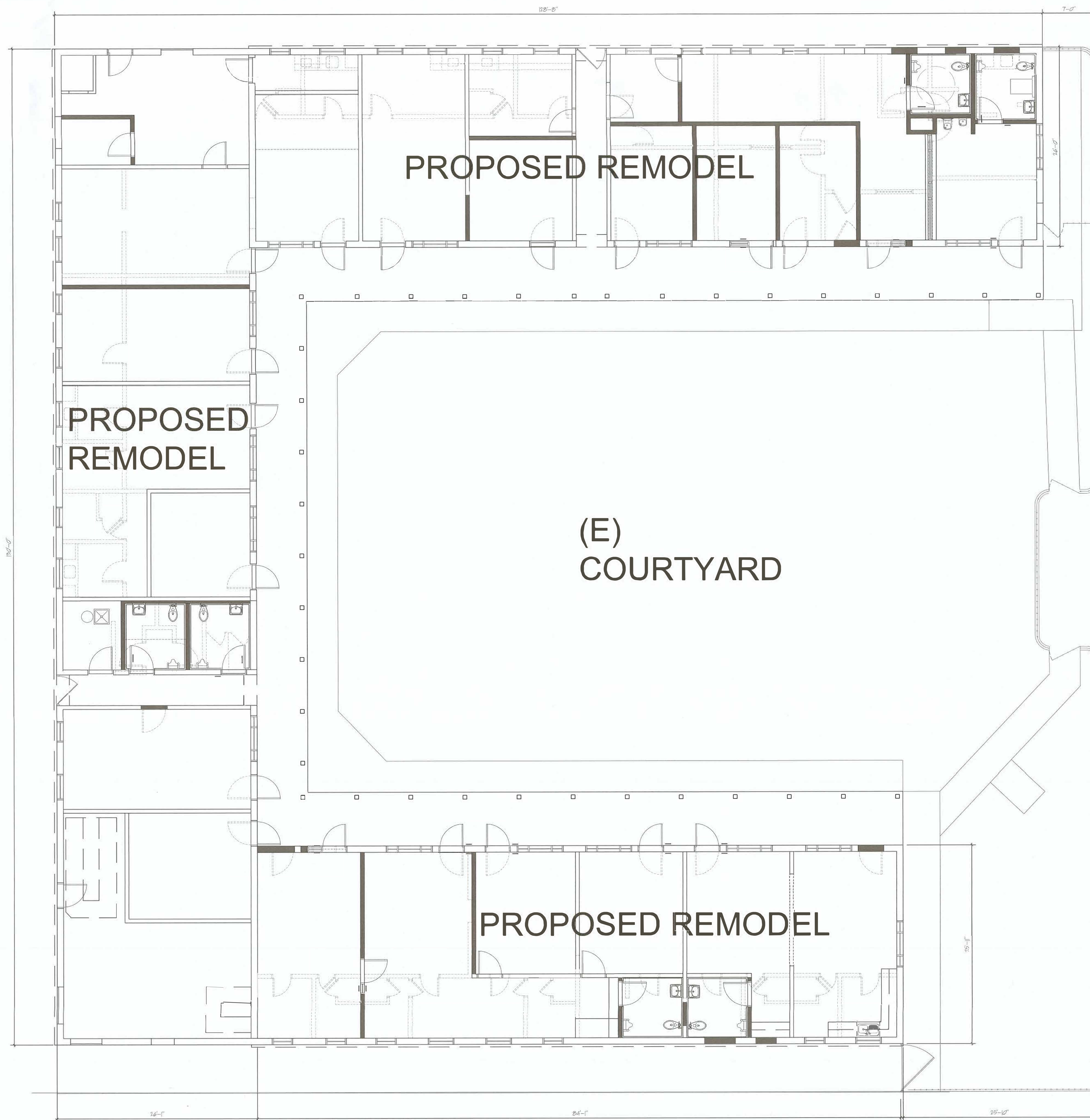
REVISIONS	DATE	BY	CHK
1	11/10/22	PLAN CHECK	1



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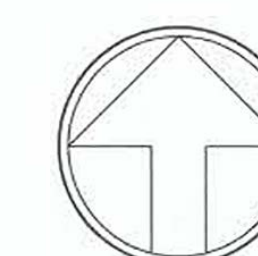
OVERALL
EXISTING ELEVATION

DATE	08/01/22
SCALE	
DRAWN	B.M./L.W.
JOB#	YP22005
SHEET#	X4.2



LEGEND

	EXISTING STUD WALL TO REMAIN
	EXISTING STUD WALL TO BE REMOVED
	NEW INTERIOR STUD WALL - 2"x4" FRAMING W/ 1/2" GYPD. ON INTERIOR SIDE



NORTH

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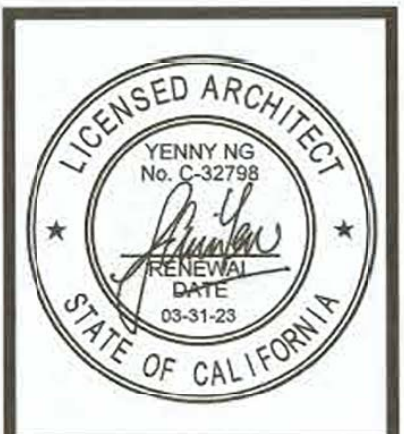
DEMOLITION FLOOR PLAN

SCALE: 3/16" = 1'-0"

1

REVISIONS

NO.	DATE	DESCRIPTION
1	11/18/22	PLAN CHECK 1



BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243
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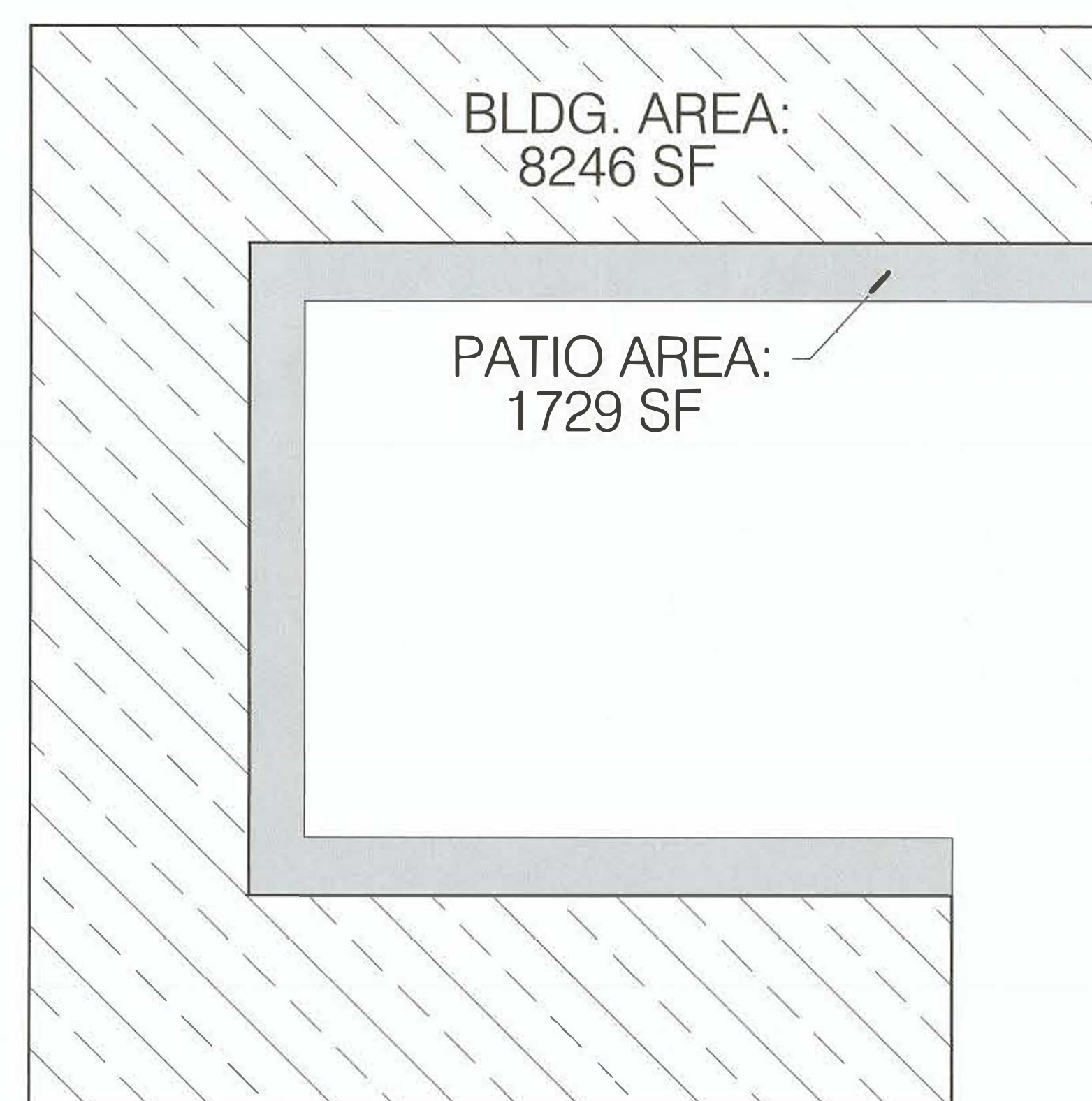
DEMOLITION PLAN

DATE	08/01/22
SCALE	
DRAWN	B.M./L.W.
JOB#	YP22005
SHEET#	

X5.1

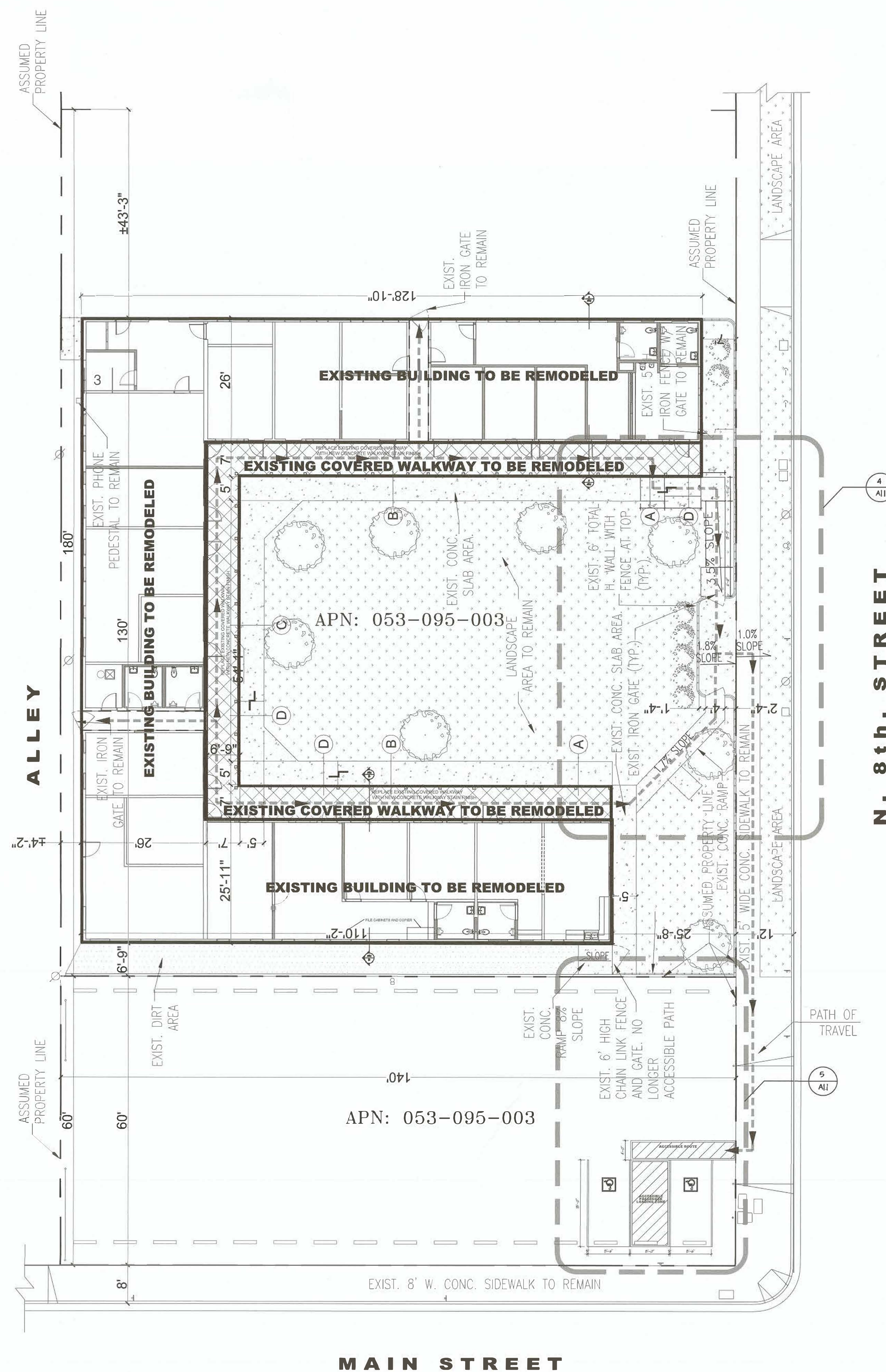
FIGURE 11B-705.1.2.2.2
PARALLEL CURB RAMPS

PARALLEL CURB RAMPS	SCALE: N.T.S.	3
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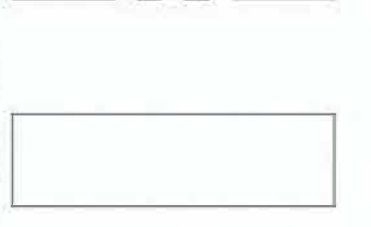


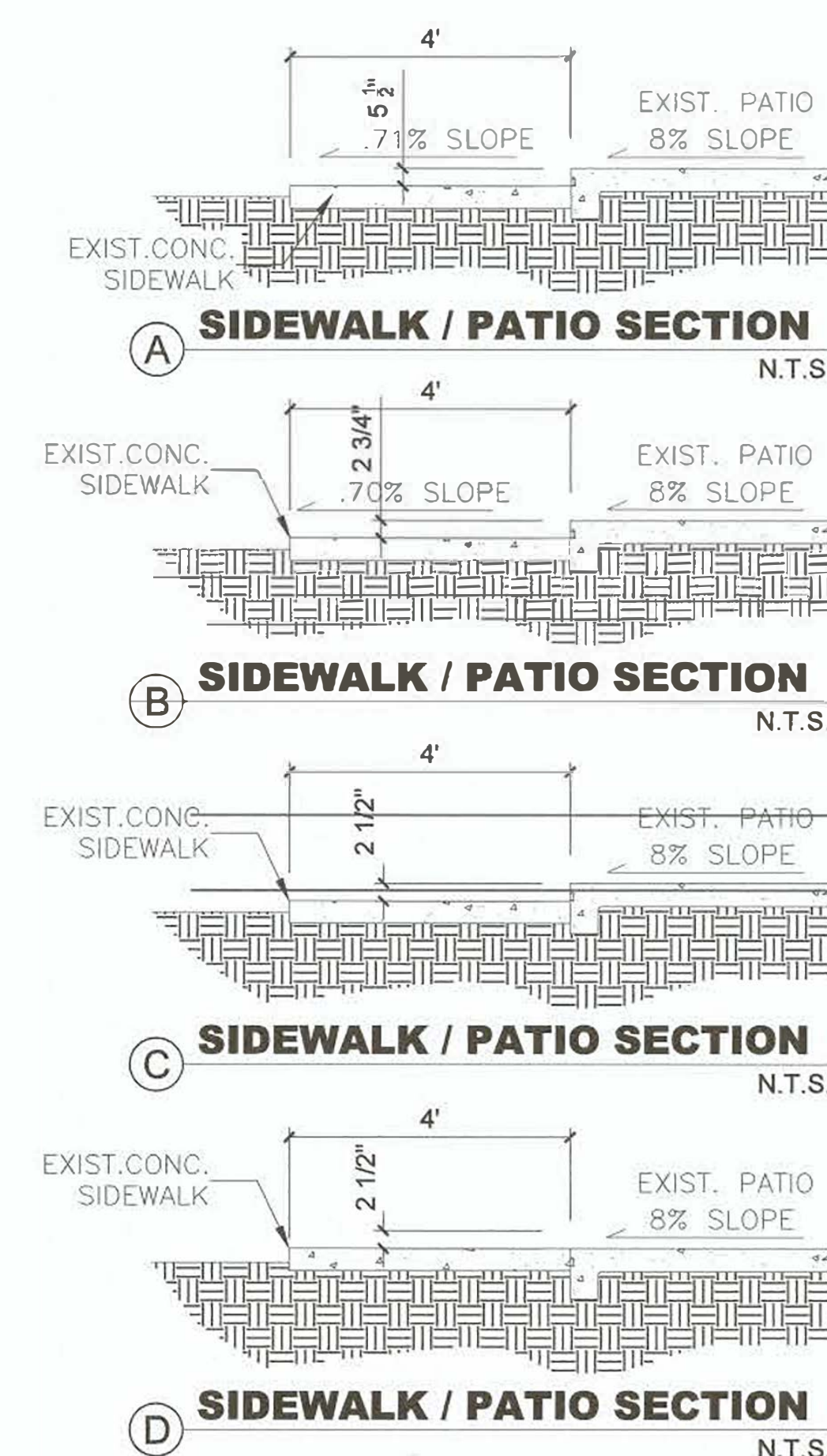
INT. REMODEL AREA: 8,246 SF
EXT. CVRD. PATIO AREA: 1,729 SF
TOTAL: 9,975 SF

BLDG. AREA DIAGRAM	SCALE: 1/16" = 1'-0"	2
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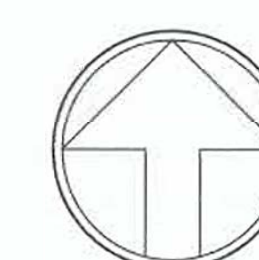


LEGEND:

- 
 ASSUMED
PROPERTY LINE
 EXIST. ASPHALT
AREAS
 EXIST. LANDSCAPE
AREAS
 EXIST. CONCRETE
AREAS/SIDEWALK
 EXIST. DIRT AREA

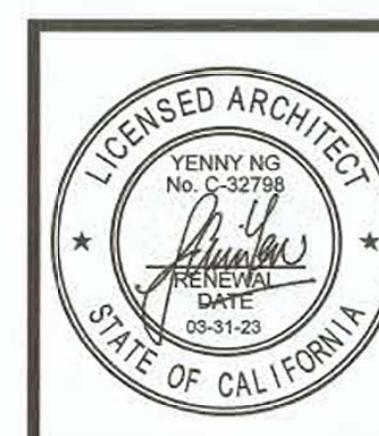


**ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.**



NORTH

REVISIONS	
1	11/18/22 PLAN CHECK 1



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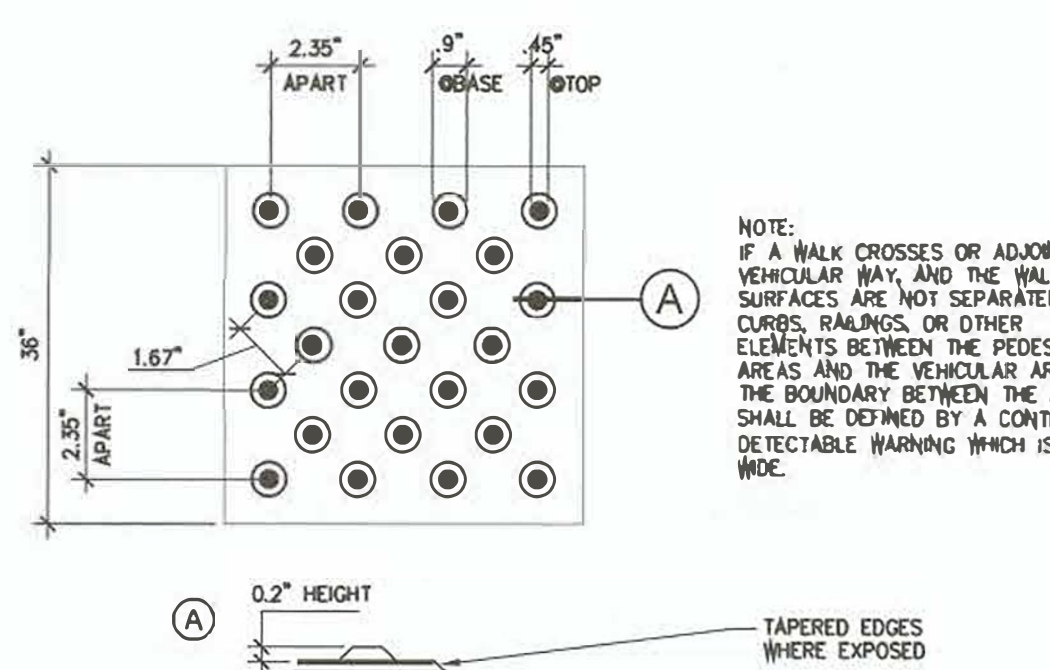
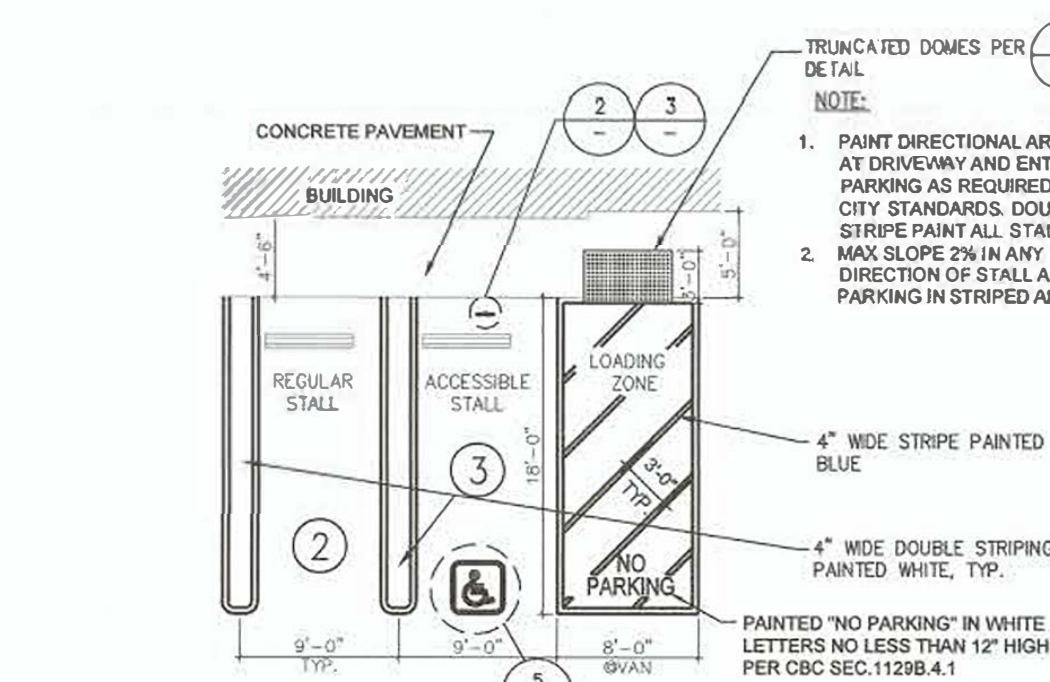
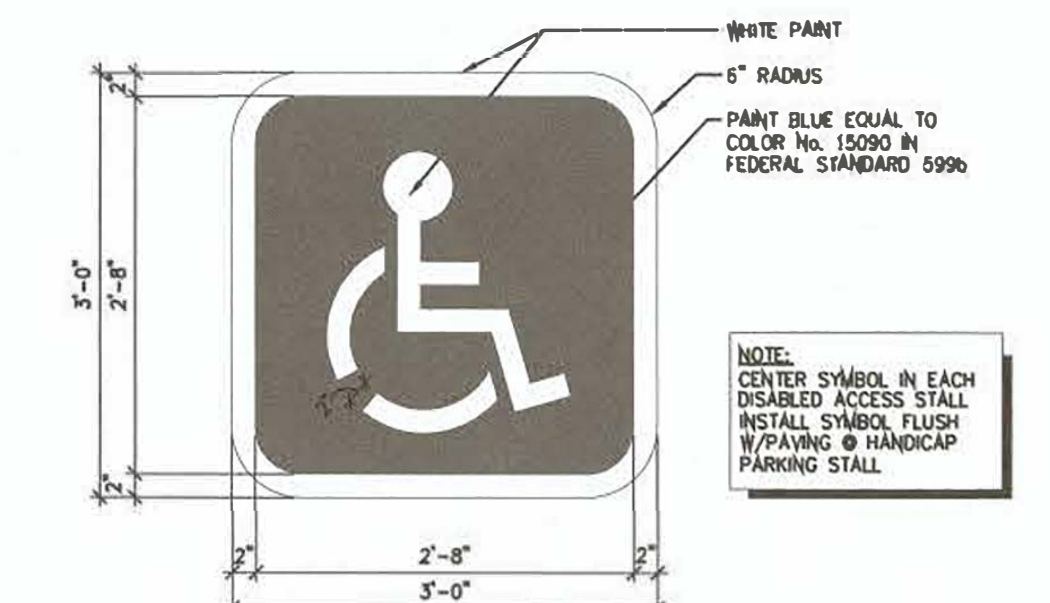
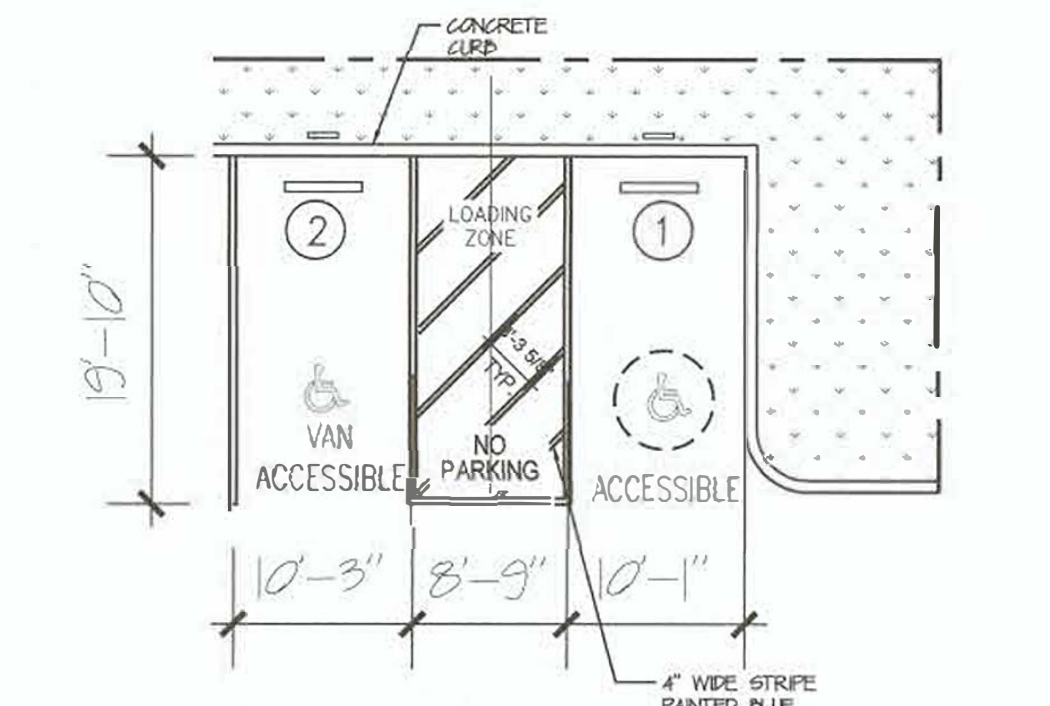
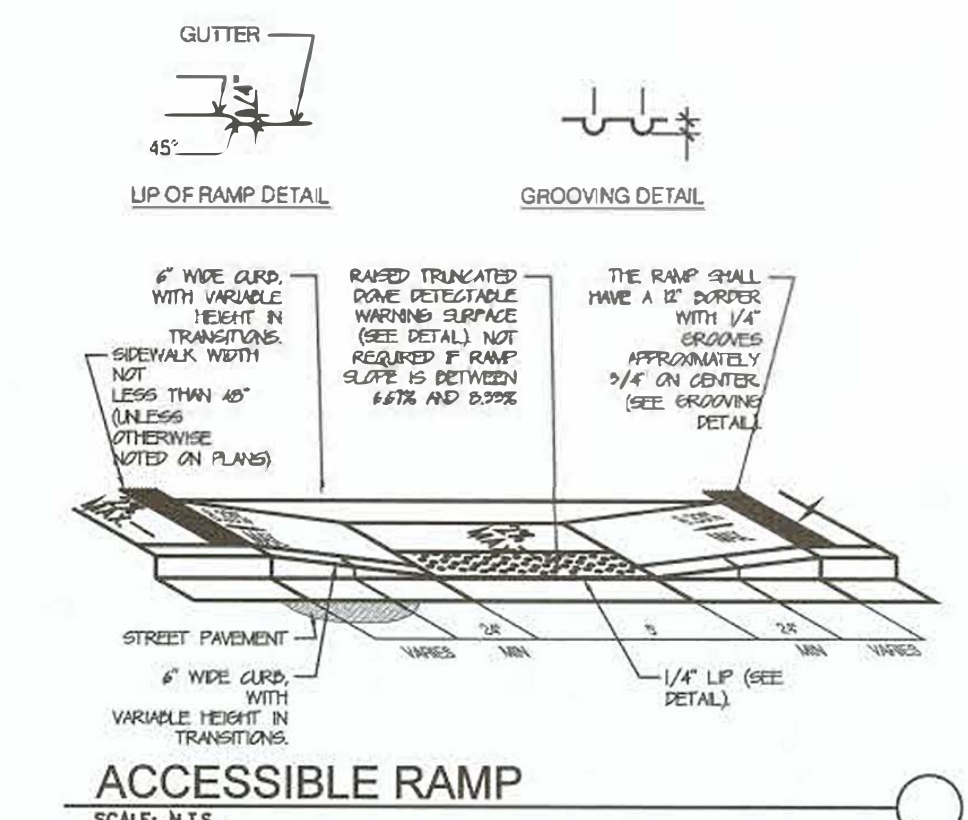
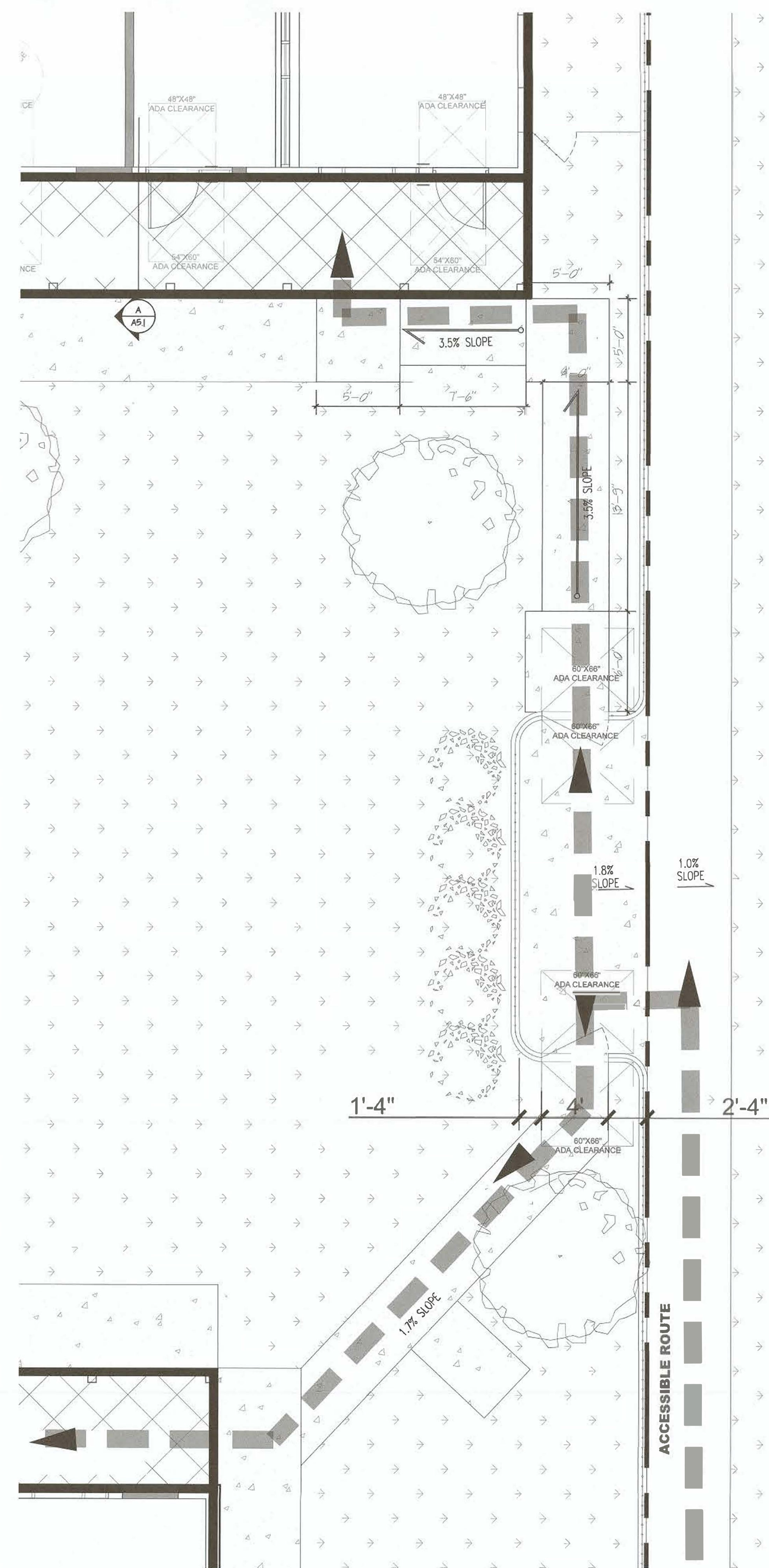
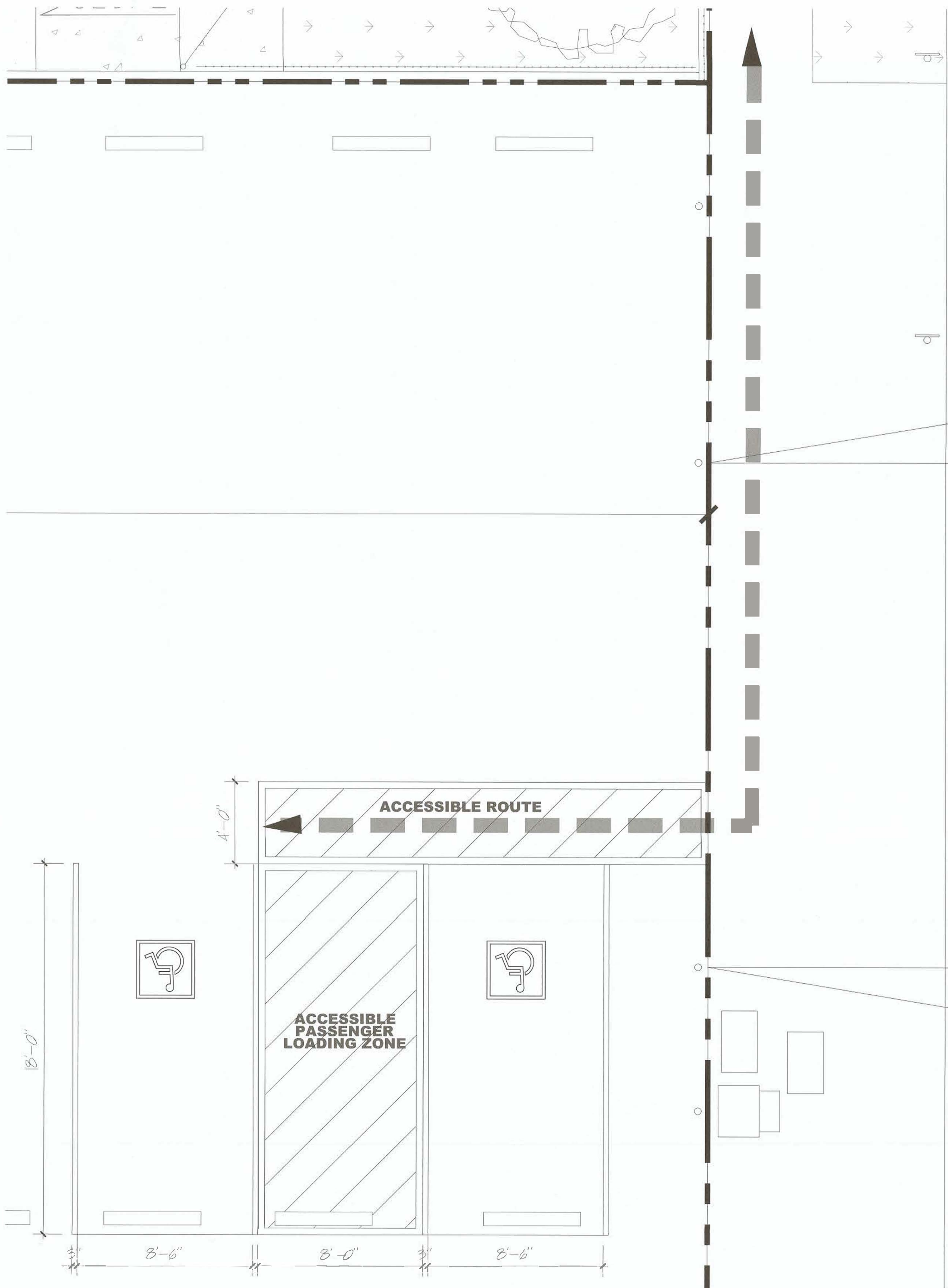
PROPOSED SITE PLAN & PATH OF TRAVEL

DATE	08/01/22
SCALE	
DRAWN	B.M./L.W.
JOB#	YP22005
SHEET#	

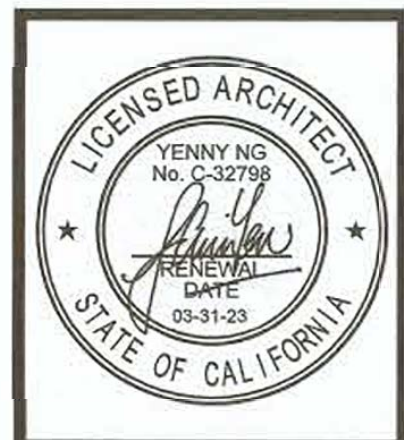
A1.0

PROPOSED SITE PLAN & PATH OF TRAVEL	SCALE: 3/32" = 1'-0"	1
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ALL PROPRIETARY PRODUCTS/
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REVISIONS	DATE	BY	APP
1	11/18/22	PLAN CHECK	1



BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

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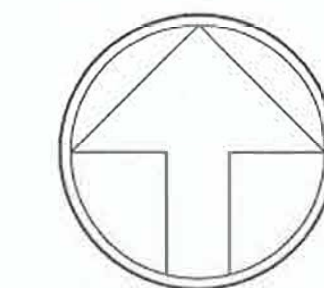
TRUNCATED DOMES

DATE	08/01/22
SCALE	
DRAWN	B.M./L.W.
CHECKED	VP22005
SHEET#	

A1.1



DATE	08/01/22
SCALE	
DRAWN	B.M./L.W.
JOB#	YP22005
SHEET#	A1.2



NORTH

#	ROOM	AREA						OBS.
		B (100)	A (15 NET)	A (Fixed Seats)	S (300)	K (200)	N/A	
1	MAINTENANCE				289 SF			ACCESSORY STORAGE AREAS
2	JANITOR				63 SF			
3	DOCTOR / OFFICE	325 SF						
4	INTERVIEW ROOM	144 SF						
5	MEDICAL RECORDS	78 SF						
6	CLINICAL OFFICE	288 SF						
7	RESTROOMS						58 SF	
8	MD	54 SF					64 SF	MECHANICAL EQUIPMENT ROOM
9	DOCTOR / NURSE	257 SF						
10	NURSE	177 SF						
11	SUPERVISOR	150 SF						
12	CLINICIAN	155 SF						
13	CLINICIAN	150 SF						
14	RECEPTION	132 SF						
15	LOBBY		17 SEATS					FIXED SEATS
16	TELEMEDICINE	370 SF						
17	COVER WALKWAY						1,943 SF	MEANS OF EGRESS CIRCULATION
18	CLINICIAN	294 SF						
19	CASE MANAGER OFFICE	487 SF						
20	INTERVIEW ROOM	175 SF						
21	STORAGE				68 SF			
22	RESTROOMS						63 SF	
23	RESTROOMS						63 SF	
24	CHILDREN CONFERENCE ROOM		317 SF					UNCONCENTRATED (TABLES & CHAIRS)
25	MAINTENANCE				483 SF			
26	GROUP ROOM	220 SF						
27	PROGRAM MANAGER	325 SF						
28	ANALYST OFFICE	228 SF						
29	MANAGER OFFICE	208 SF						
30	SUPERVISOR	215 SF						
31	BREAKROOM		436 SF					UNCONCENTRATED (TABLES & CHAIRS)
32	CLERICAL	259 SF						
33	RESTROOMS						58 SF	
34	RESTROOMS						58 SF	
35	BREAKROOM-KITCHEN					157 SF		
36	TOTAL	4,661 SF	753 SF		903 SF	157 SF	2,307 SF	
		47 P	50 P	17 P	4 P	1 P		TOTAL 119 PEOPLE

MINIMUM PLUMBING FACILITIES
(PER TABLE 422.1 2019 CPC)

TYPE OF OCCUPANCY ²	WATER CLOSETS (FIXTURES PER PERSON) ³		URINALS (FIXTURES PER PERSON) ⁴	LAVATORIES (FIXTURES PER PERSON) ⁵		BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS/FACILITIES (FIXTURES PER PERSON)	OTHER
A-4 Assembly occupancy (indoor activities or sporting events with spectator seating)- swimming pools, skating rinks, arenas, and gymnasiums	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-200 2: 201-400 3: 401-750	Female 1: 1-100 2: 101-200 4: 201-300 5: 301-500 6: 501-750	—	1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
	Over 400, add 1 fixture for each additional 500 males and 1 fixture for each additional 125 females.		Over 600, add 1 fixture for each additional 300 males.	Over 750, add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.		—	Over 750, add 1 fixture for each additional 500 persons.	
	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-200 2: 201-400 3: 401-750	Female 1: 1-100 2: 101-200 4: 201-300 5: 301-500 6: 501-750	—	1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
A-5 Assembly occupancy (outdoor activities or sporting events)- amusement parks, grandstands and stadiums	Male 1: 1-100 2: 101-200 3: 201-400	Female 1: 1-25 2: 26-50 3: 51-100 4: 101-200 6: 201-300 8: 301-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-200 2: 201-400 3: 401-750	Female 1: 1-100 2: 101-200 4: 201-300 5: 301-500 6: 501-750	—	1: 1-250 2: 251-500 3: 501-750	1 service sink or laundry tray
	Over 400, add 1 fixture for each additional 500 males and 1 fixture for each additional 125 females.		Over 600, add 1 fixture for each additional 300 males.	Over 750, add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.		—	Over 750, add 1 fixture for each additional 500 persons.	
	Male 1: 1-50 2: 51-100 3: 101-200 4: 201-400	Female 1: 1-15 2: 16-30 3: 31-50 4: 51-100 8: 101-200 11: 201-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-75 2: 76-150 3: 151-200 4: 201-300 5: 301-400	Female 1: 1-50 2: 51-100 3: 101-150 4: 151-200 5: 201-300 6: 301-400	—	1 per 150	1 service sink or laundry tray
B Business occupancy (office, professional or service type transactions)- banks, vet clinics, hospitals, car wash, banks, beauty salons, ambulatory health care facilities, laundries and dry cleaning, educational institutions (above high school), or training facilities not located within school, post offices and printing shops	Male 1: 1-50 2: 51-100 3: 101-200 4: 201-400	Female 1: 1-15 2: 16-30 3: 31-50 4: 51-100 8: 101-200 11: 201-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-75 2: 76-150 3: 151-200 4: 201-300 5: 301-400	Female 1: 1-50 2: 51-100 3: 101-150 4: 151-200 5: 201-300 6: 301-400	—	1 per 150	1 service sink or laundry tray
	Over 400, add 1 fixture for each additional 500 males and 1 fixture for each additional 150 females.		Over 600, add 1 fixture for each additional 300 males.	Over 400, add 1 fixture for each additional 250 males and 1 fixture for each additional 200 females.		—	1 per 150	1 service sink or laundry tray
	Male 1: 1-50 2: 51-100 3: 101-200 4: 201-400	Female 1: 1-15 2: 16-30 3: 31-50 4: 51-100 8: 101-200 11: 201-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-75 2: 76-150 3: 151-200 4: 201-300 5: 301-400	Female 1: 1-50 2: 51-100 3: 101-150 4: 151-200 5: 201-300 6: 301-400	—	1 per 150	1 service sink or laundry tray

MINIMUM PLUMBING FACILITIES
(PER TABLE 422.1 2019 CPC)
OCC. LOAD= 146 P (73 M + 73 F)

FIXTURE	MALE	FEMALE
W/C	2	4
URINALS	1	2
LAVATORIES	1	2
DRINKING FOUNTAIN	1	1
SERVICE SINK	1	1

ALL PROPRIETARY PRODUCTS/
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BETTER" STATEMENT.

OCCUPANCY LOAD

SCALE: 3/16" = 1'-0"

1

BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

OCCUPANCY LOAD

DATE 08/01/22

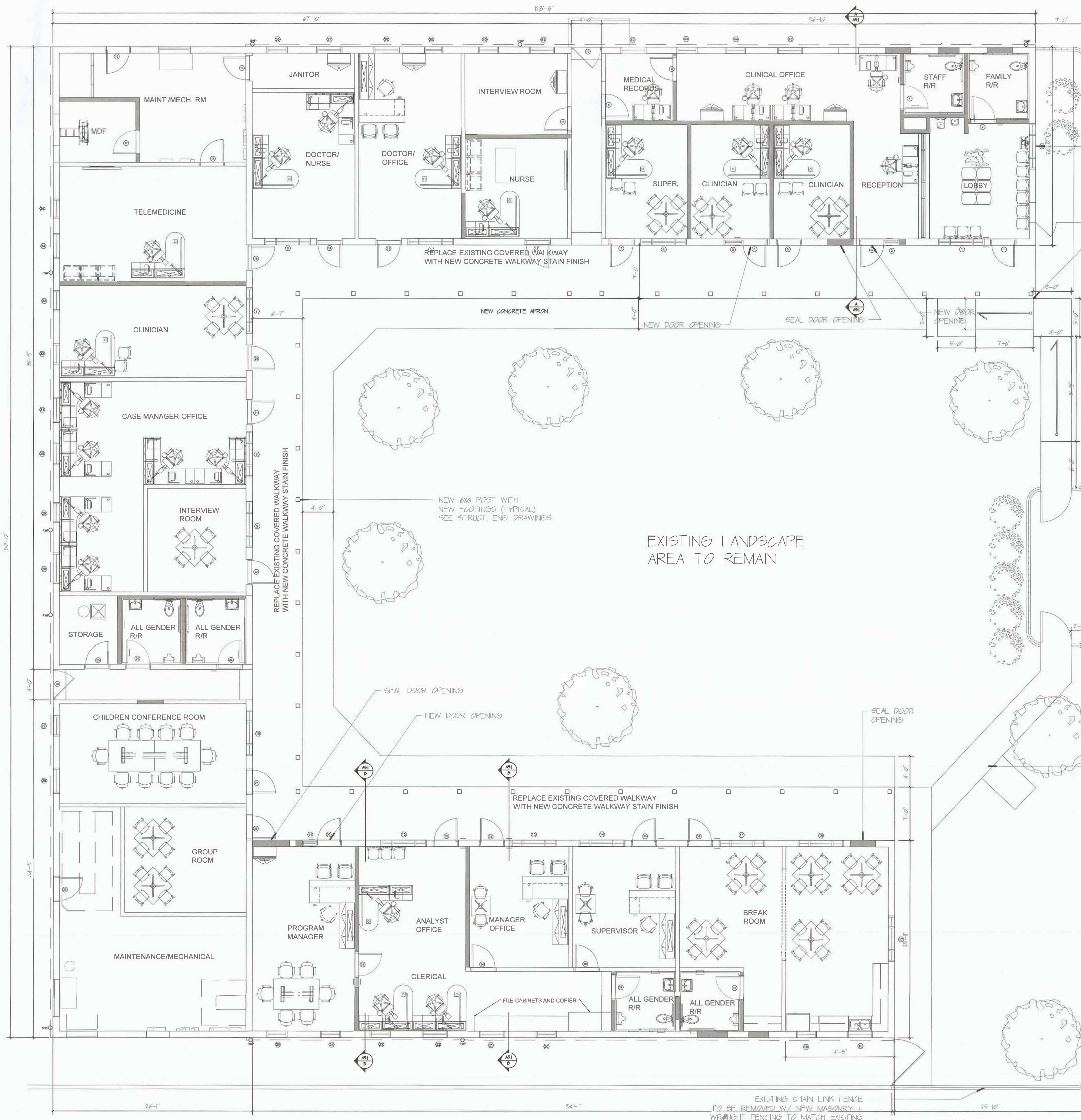
SCALE

DRAWN B.M./ L.W.

JOB# YP22005

SHEET#

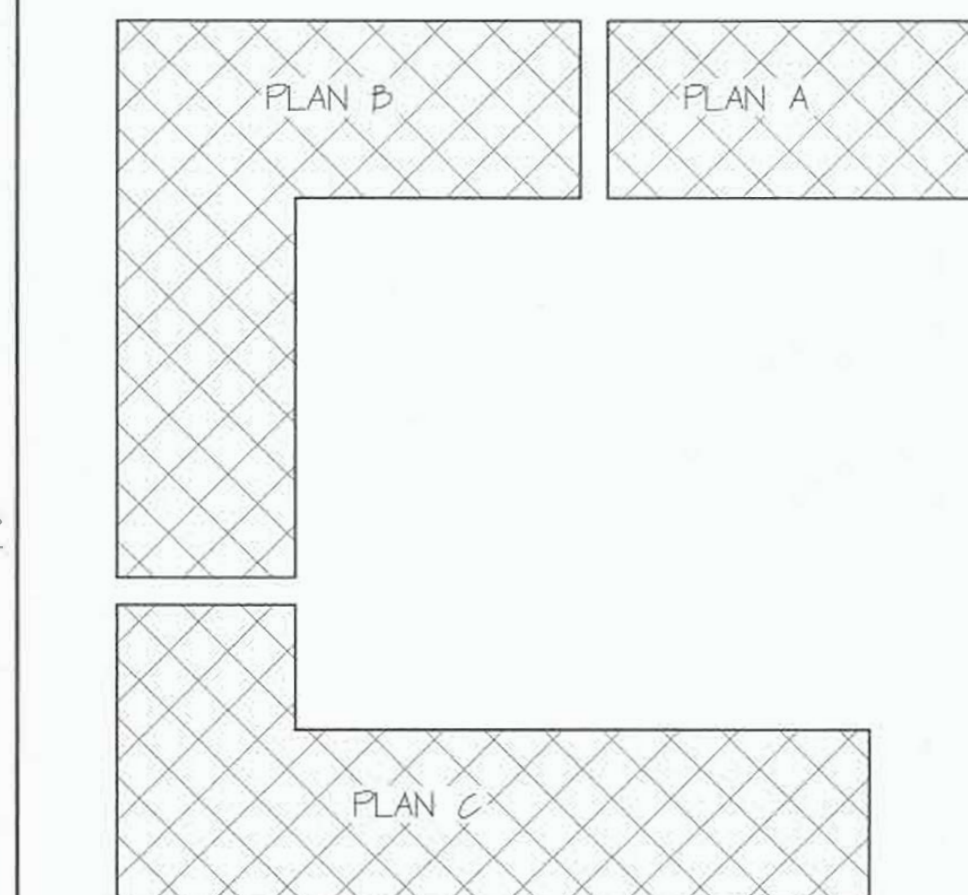
A1.3



LEGEND

- EXISTING STLD WALL TO REMAIN
- EXISTING STLD WALL TO BE REMOVED
- NEW INTERIOR STLD WALL - 2"x4" FRAMING W/ 1/2" GYPD ON INTERIOR SIDE

NOTES



MEANS OF EGRESS:
SLEEPING ROOMS SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND RESCUE OPENING:
A. MINIMUM NET CLEAR OPENING OF 57 SF.
(5 SF FOR GRADE FLOOR OPENINGS).
B. MINIMUM NET CLEAR HEIGHT OF 24".
C. MINIMUM NET CLEAR OPENING WIDTH OF 20 INCHES.
D. SILL HEIGHT OF NOT MORE THAN 44" ABOVE THE FLOOR.
E. SHALL OPEN DIRECTLY INTO A PUBLIC WAY, OR TO A YARD THAT OPENS TO A PUBLIC WAY, YARD OR COURT MUST COMPLY WITH THE DEFINITION "AN OPEN SPACE, UNDESTRUCTURED FROM THE GRAND TO THE SKY."
THEREFORE, INGRESS/EGRESS OPENINGS, WHICH OPEN ONTO DECKS, ROOFS, OR INTO A COVERED PATIO ARE NOT ACCEPTABLE.
F. WINDOW CONTROL OPENING DEVICE SHALL NOT REDUCE THE REQUIRED NET CLEAR OPENING AREA OF THE WINDOW.
SAFETY GLAZING:
SAFETY GLAZING OR TEMPERED GLASS IS REQUIRED IN HAZARDOUS LOCATIONS PER R308.
IN BATHROOMS- WINDOWS 40 INCHES OR LESS ABOVE THE TUB OR SHOWER FLOOR TO BE TEMPERED GLASS.
GLAZING ADJACENT TO STAIRS (LESS THAN 36" AFF) TO BE TEMPERED PER CFC R002B46.

PLUMBING NOTES:
PLUMBING FIXTURES AND FITTINGS SHALL MEET THE REQUIREMENTS, INCLUDING MAXIMUM FLOW RATES IN SECTION 4303 CALGREEN BUILDING STANDARDS.
Faucets in kitchen to be 1.5 gallons per minute, maximum, per CFC 42021 & 42022.
RESIDENTIAL LAVATORY FAUCET TO BE 1.2 GALLONS PER MINUTE, MAXIMUM, PER CFC 42022.
WATER CLOSET TO BE 1.25 GALLONS PER FLUSH, MAXIMUM, OR DUAL FLUSH PER CFC 412.
SHOWERS TO BE 1.5 GALLONS PER MINUTE, MAXIMUM, PER CFC 42022.

WATER CLOSET - LOCATE IN CLEAR SPACE NOT LESS THAN 30" IN WIDTH AND WITH NOT LESS THAN 24" CLEAR SPACE IN FRONT OF THE WATER CLOSET STOOL.

THE MIN. INTERIOR DIMENSION OF A SHOWER COMPARTMENT MUST BE CAPABLE OF ENCOMPASSING A 30" DIA. GRATE.

WALL COVERING SHALL BE GEMENT PLASTER, TILE OR APPROVED EQUAL TO 71 INCHES ABOVE DRAIN AT SHOWERS OR TUB WITH SHOWERS MATERIALS OTHER THAN STRUCTURAL ELEMENTS ARE TO BE MOISTURE RESISTANT. CFC R0072

MECHANICAL NOTES:
A MINIMUM OPENING OF 100 SQ. IN. FOR MAKE-UP AIR SHALL BE PROVIDED IN THE LAUNDRY ROOM DOOR OR BY OTHER APPROVED MEANS PER CMC SECTION 5043.1
STAIRWAYS:
MAXIMUM RISE OF 7.75"
MINIMUM RUN (TREAD) OF 10"
NOSING OF 0.75" TO 1.25" WHEN TREAD DEPTH LESS THAN 11"
MINIMUM WIDTH OF 36"
MINIMUM HEADROOM OF 6'-8"
HANDRAIL TO BE 36"-38" ABOVE NOSING OF TREADS
HANDRIP CROSS SECTION OF 15" OR PER R311.7.3

HANDRAILS:
HANDRAILS ON THE OPEN SIDE OF A STAIRWAY MUST MEET GUARD REQUIREMENTS FOR OCCUPANCIES IN GROUP R-2
GUARDS WHOSE TOP RAIL ALSO SERVES AS A HANDRAIL SHALL HAVE HEIGHT NOT LESS THAN 34 IN. AND NOT MORE THAN 38 IN. MEASURED VERTICALLY FROM THE LEADING EDGE OF THE STAIR TREAD NOSING.
A ROUND HANDRAIL MUST HAVE DIAMETER NO SMALLER THAN 1 1/4 IN. AND NO LARGER THAN 2 IN., SO THAT IT CAN BE EASILY AND SECURELY GRIPPED. OTHER HANDRAIL SHAPES ARE ALLOWED IF THE PERIMETER DIMENSION IS AT LEAST 4 IN. AND NOT MORE THAN 6 1/4 IN., WITH A CROSS SECTION DIMENSION NOT MORE THAN 2 1/4 IN.

GUARDRAILS:
GUARDRAILS / GUARD OF MINIMUM 42" ABOVE LANDINGS MORE THAN 30" ABOVE FLOOR / GRADE.
GUARD OPENINGS TO BE LESS THAN 4".

REPLACE EXISTING COVERED WALKWAY WITH NEW CONCRETE WALKWAY STAIN FINISH

REPLACE EXISTING COVERED WALKWAY WITH NEW CONCRETE WALKWAY STAIN FINISH

REPLACE EXISTING COVERED WALKWAY WITH NEW CONCRETE WALKWAY STAIN FINISH

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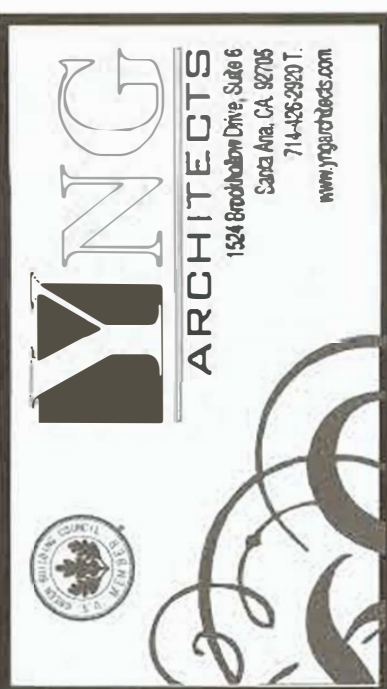
ALL PROPRIETARY PRODUCTS/
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BETTER" STATEMENT.

OVERALL FLOOR PLAN

SCALE: 3/16" = 1'-0"

1

REVISIONS	DATE	DESCRIPTION
1	11/18/22	PLAN CHECK 1



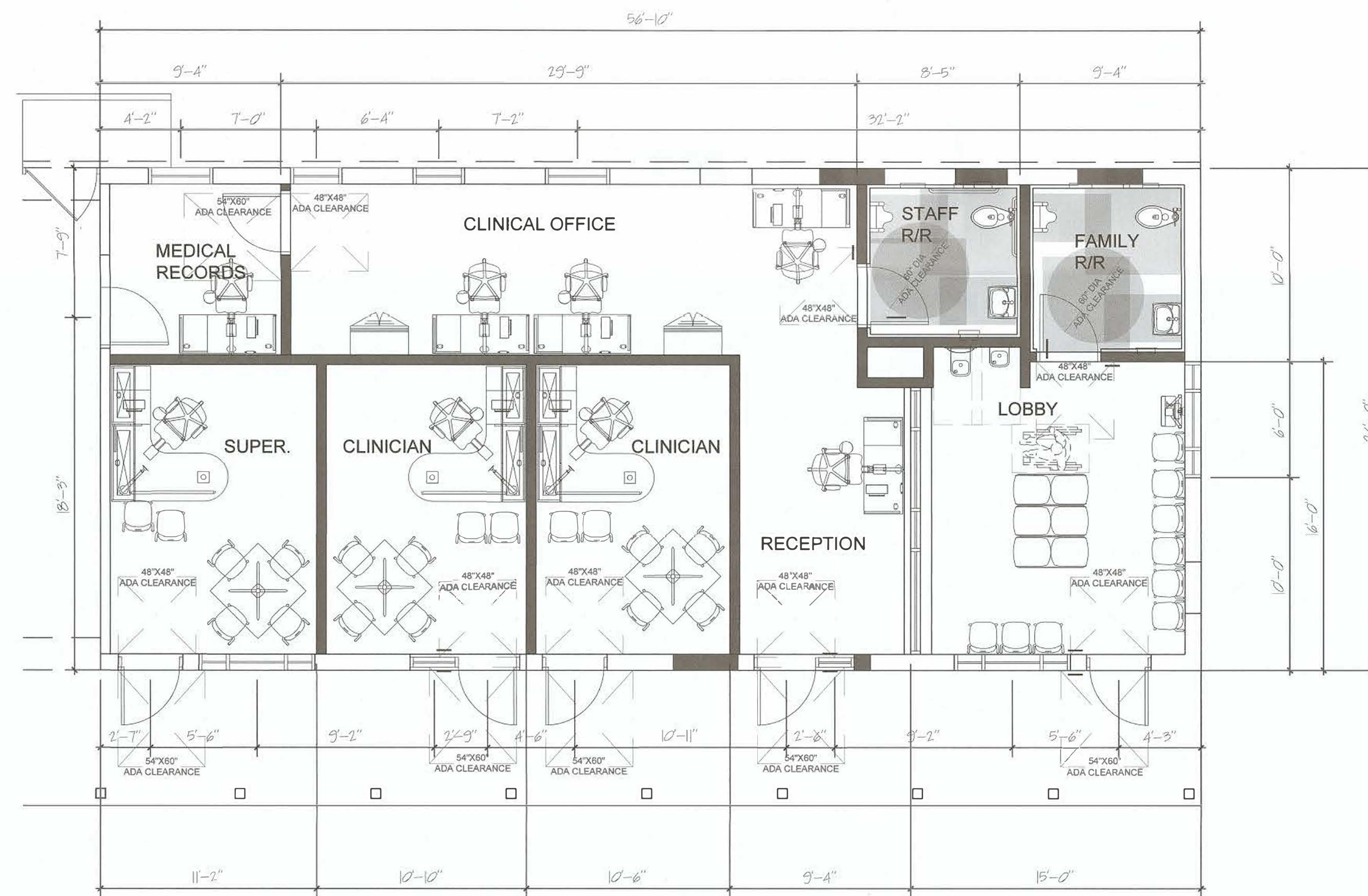
BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

PROPOSED FLOOR PLAN

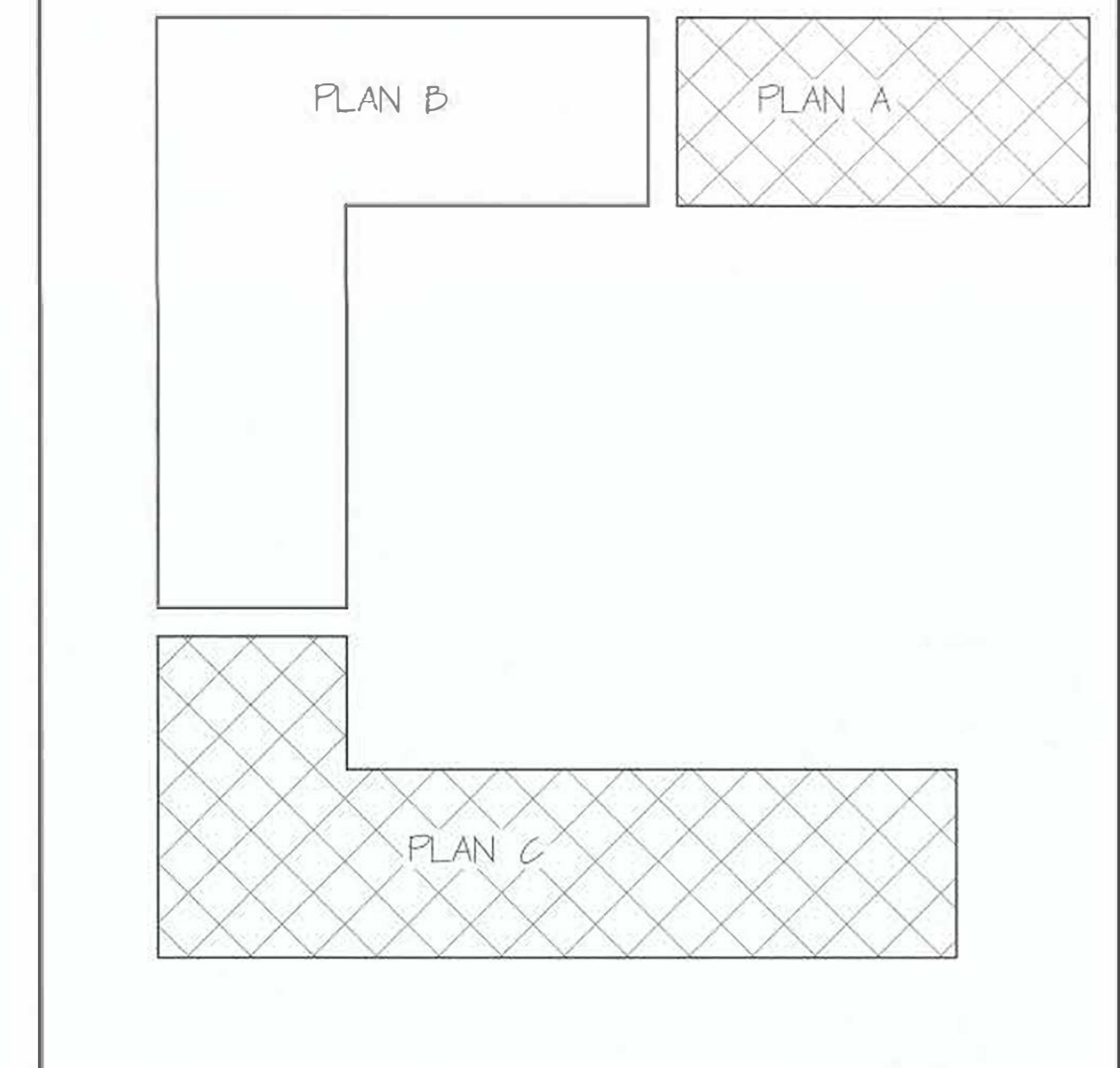
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SCALE	
DRAWN	B.M./L.W.
JOB#	YP22005
SHEET#	

A2.1

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
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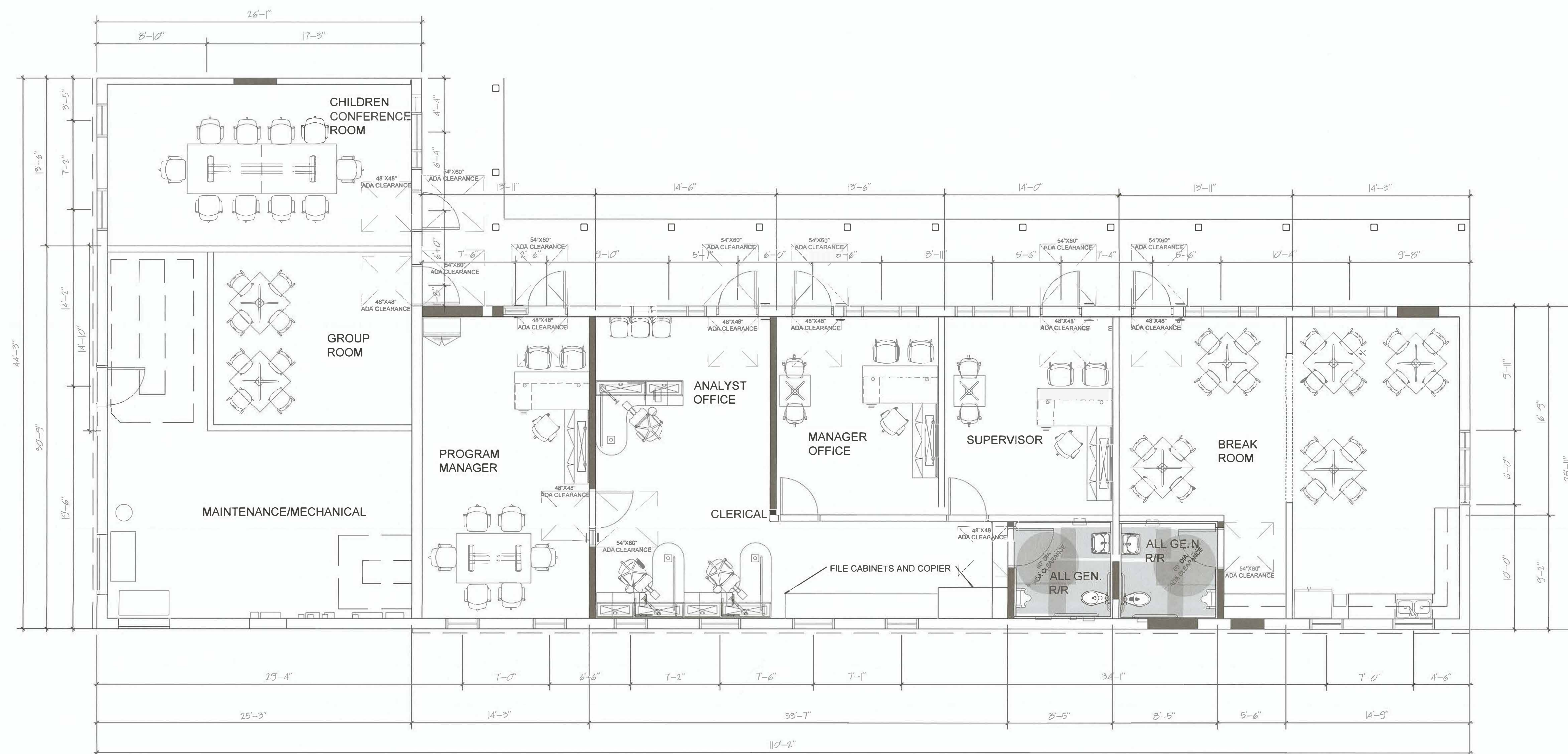


LEGEND



ENLARGED PARTIAL PLAN A

SCALE: 1/4" = 1'-0" 2



ENLARGED PARTIAL PLAN C

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

BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

ENLARGED PARTIAL PLAN A + C

DATE 08/01/22

SCALE

DRAWN B.M./L.W.

JOB# YP22005

SHEET#

A2.2



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DATE	08/01/22
SCALE	
DRAWN	B.M./L.W.
JOB#	YP22005

SHEET#
A2.3

NORTH

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

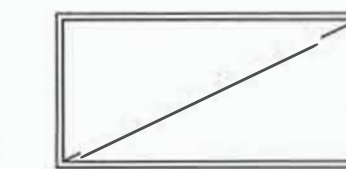
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LIGHTING/UTILITIES LEGEND:

ALL 120-VOLT, SINGLE PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE. (CEC 210.12) LIGHTS, FAN LIGHTS, OUTLETS, SD, CM, ETC.

Ⓡ 6" RECESSED LED LIGHT FIXTURE



SURFACE MOUNTED LED LIGHT FIXTURE
SIZE: 2' x 4'



LED WALL SCONCE



WALL MOUNTED SECURITY LIGHT FIXTURE
MOTION SENSOR



LIGHT SWITCH



MEDIA PACKAGE - (1) 15 amp 125 V QUADPLEX RECEPTACLE OUTLET, (1) RG-6 JACK, AND (2) CATV JACKS PROVIDE 1" PLASTIC CONDUIT WITH PULL STRING AND DUPLEX RECEPTACLE OUTLET AT +65" A.F.F. - PROVIDE 2x12 BACKING IN LOCATIONS DETERMINED BY BUILDER



DUPLEX AFCI OUTLET



EXTERNAL WATERPROOF OUTLET



TELEPHONE OUTLET

NOTE: REFER TO
ELECTRICAL ENGR'S
DRAWINGS

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
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BETTER" STATEMENT.

REFLECTED CEILING PLAN

SCALE: 3/16" = 1'-0"

1

BEHAVIORAL HEALTH CLINIC
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120 N. 8th. STREET, EL CENTRO, CA 92243

PROPOSED REFLECTED CEILING PLAN

DATE 08/01/22

SCALE

DRAWN B.M./L.W.

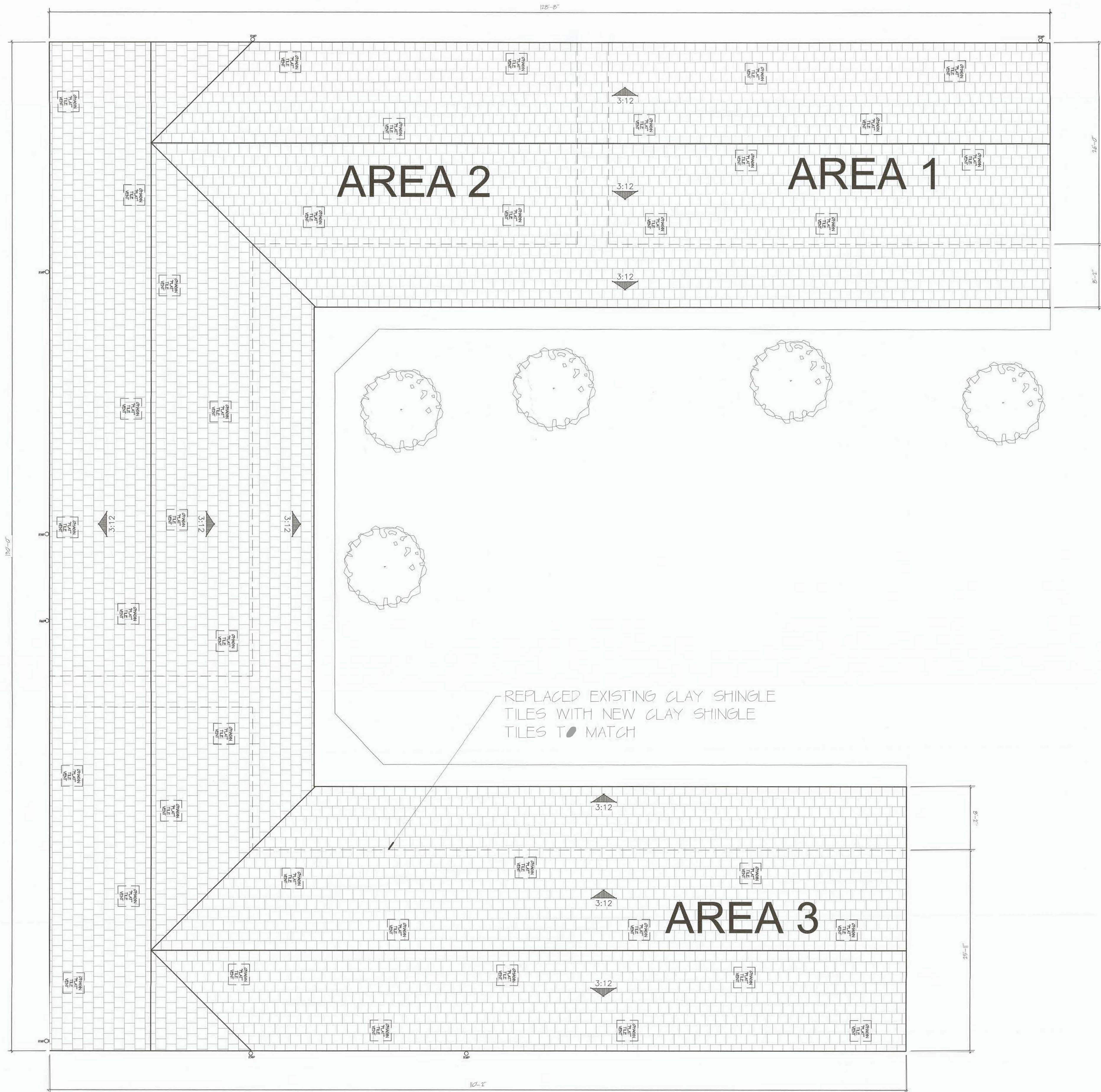
JOB# YP22005

SHEET#

A2.4



REV	NO	DATE	DESCRIPTION
1	1	08/01/22	P. LANG HE-KI



ROOF LEGEND

OHAGIN "FLAT" TILE VENT

R3062 MINIMUM VENT AREA
THE MINIMUM NET FREE VENTILATING AREA SHALL BE $\frac{1}{160}$ OF THE AREA OF THE VENTED SPACE.
EXCEPTION: THE MINIMUM NET FREE VENTILATION AREA SHALL BE $\frac{1}{300}$ OF THE VENTED SPACE PROVIDED ONE OR MORE OF THE FOLLOWING CONDITIONS ARE MET:
1. IN CLIMATE ZONES 14 AND 16, A CLASS I OR II VAPOR RETARDER IS INSTALLED ON THE WARM-IN- WINTER SIDE OF THE CEILING.
2. AT LEAST 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NO MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY, WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS, INSTALLATION MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL BE PERMITTED.

ATTIC VENTILATION CALCULATIONS

ATTIC AREA 1
REQUIRED VENTILATION AREA = ATTIC AREA (1470 SQ. FT./200 SQ. FT.)
= 4.92 SQ. FT. X 144" = 108.48 SQ. IN.
40% - 50% OF REQUIRED UPPER VENTILATION = 289.3 SQ. IN. = 354.2 SQ. IN.

UPPER VENTILATION PROVIDED:
(1) OHAGIN HIGH PROFILE "FLAT" VENT AT 98.75 SQ. IN. = 395 SQ. IN.
LOWER VENTILATION PROVIDED:
(1) OHAGIN HIGH PROFILE "FLAT" VENT AT 98.75 SQ. IN. = 395 SQ. IN.
TOTAL VENTILATION PROVIDED: 790 SQ. IN.

ATTIC AREA 2
REQUIRED VENTILATION AREA = ATTIC AREA (3010 SQ. FT./200 SQ. FT.)
= 10.72 SQ. FT. X 144" = 1544.5 SQ. IN.
40% - 50% OF REQUIRED UPPER VENTILATION = 617.8 SQ. IN. = 772.5 SQ. IN.

UPPER VENTILATION PROVIDED:
(2) OHAGIN HIGH PROFILE "FLAT" VENT AT 98.75 SQ. IN. = 790 SQ. IN.
LOWER VENTILATION PROVIDED:
(2) OHAGIN HIGH PROFILE "FLAT" VENT AT 98.75 SQ. IN. = 790 SQ. IN.
TOTAL VENTILATION PROVIDED: 1580 SQ. IN.

ATTIC AREA 3
REQUIRED VENTILATION AREA = ATTIC AREA (9346 SQ. FT./200 SQ. FT.)
= 41.9 SQ. FT. X 144" = 1609.6 SQ. IN.
40% - 50% OF REQUIRED UPPER VENTILATION = 642 SQ. IN. = 802.5 SQ. IN.

UPPER VENTILATION PROVIDED:
(2) OHAGIN HIGH PROFILE "FLAT" VENT AT 98.75 SQ. IN. = 790 SQ. IN.
LOWER VENTILATION PROVIDED:
(2) OHAGIN HIGH PROFILE "FLAT" VENT AT 98.75 SQ. IN. = 802.5 SQ. IN.
TOTAL VENTILATION PROVIDED: 1592.5 SQ. IN.

POP VENT COMMERCIAL ROOF LOWER AIR INTAKE WITH GRID MOUNT PLANCE
3/4" DIAMETER 6" TALL COLLAR
ACTIVE VENTILATION PRODUCTS- MODEL PV-24-G6-CM
454 SQ. IN. NFA
ALRA ATTIC (EXHAUST) PAN 1 CFM 4200
3/4" DIAMETER 6" TALL COLLAR
ACTIVE VENTILATION PRODUCTS- MODEL AP-24-G6-CFM
454 SQ. IN. NFA

REPLACED EXISTING CLAY SHINGLE
TILES WITH NEW CLAY SHINGLE
TILES TO MATCH

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.

PROPOSED ROOF PLAN

SCALE: 3/16" = 1'-0"

1

BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

PROPOSED ROOF PLAN

DATE 08/01/22

SCALE

DRAWN B.M./ L.W.

JOB YP22005

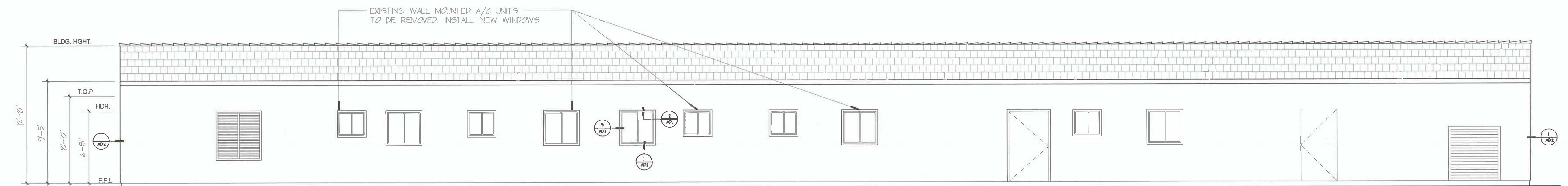
SHEET#

A3.1



PROPOSED ELEVATION FRONT

SCALE: 1/4" = 1'-0" 2



PROPOSED ELEVATION WEST

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

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
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BETTER" STATEMENT.

BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

PROPOSED
ELEVATIONS

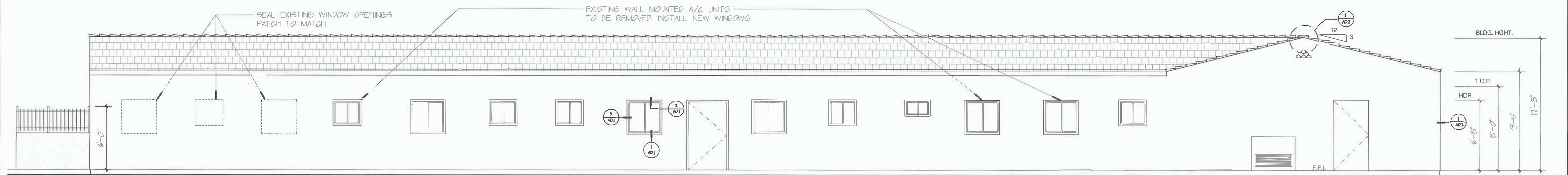
DATE 08/01/22
SCALE
DRAWN B.M./L.W.
JOB# YP22005
SHEET#

A4.1

REVISIONS	DATE	DESCRIPTION
1	11/18/22	PLAN CHECK 1

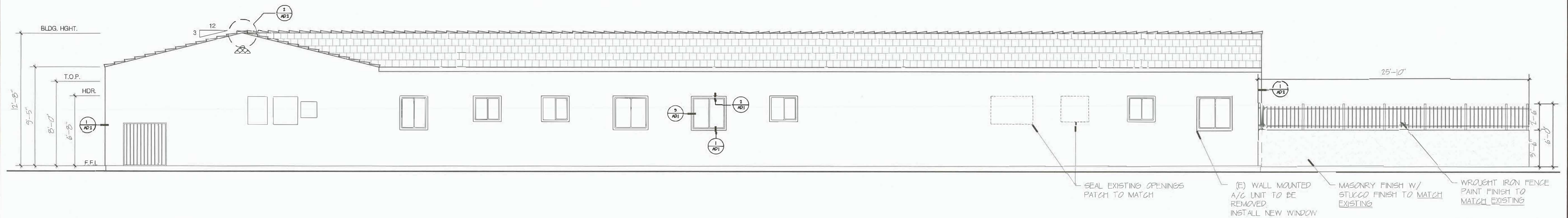


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PROPOSED ELEVATION NORTH

SCALE: 1/4" = 1'-0" 2



PROPOSED ELEVATION SOUTH

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

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.

REVISIONS	DATE	DESCRIPTION
1	11/18/22	PLAN CHECK 1



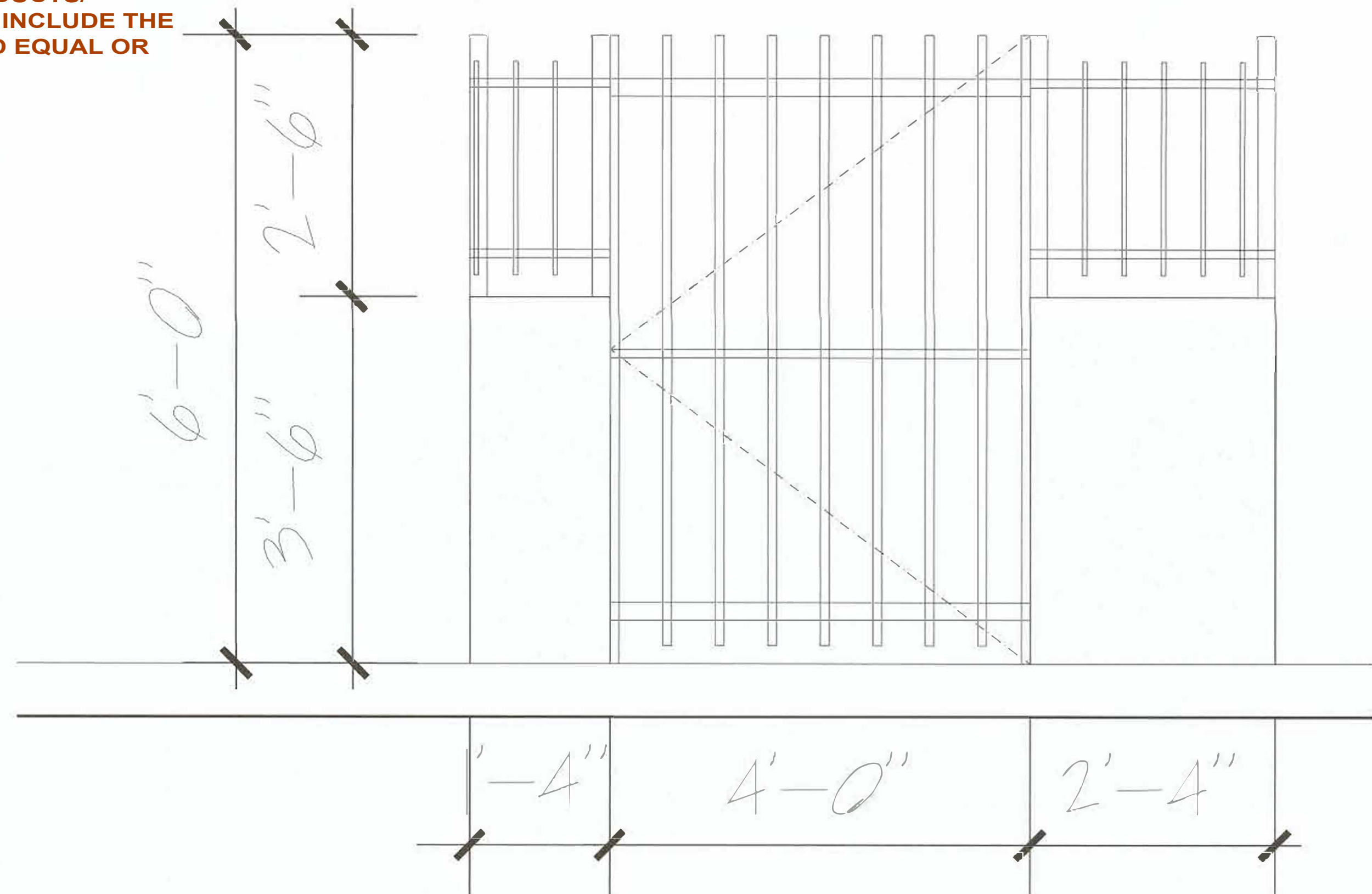
BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243
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PROPOSED
ELEVATIONS

DATE	08/01/22
SCALE	
DRAWN	B.M./L.W.
JOB#	YP22005
SHEET#	

A4.2

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.

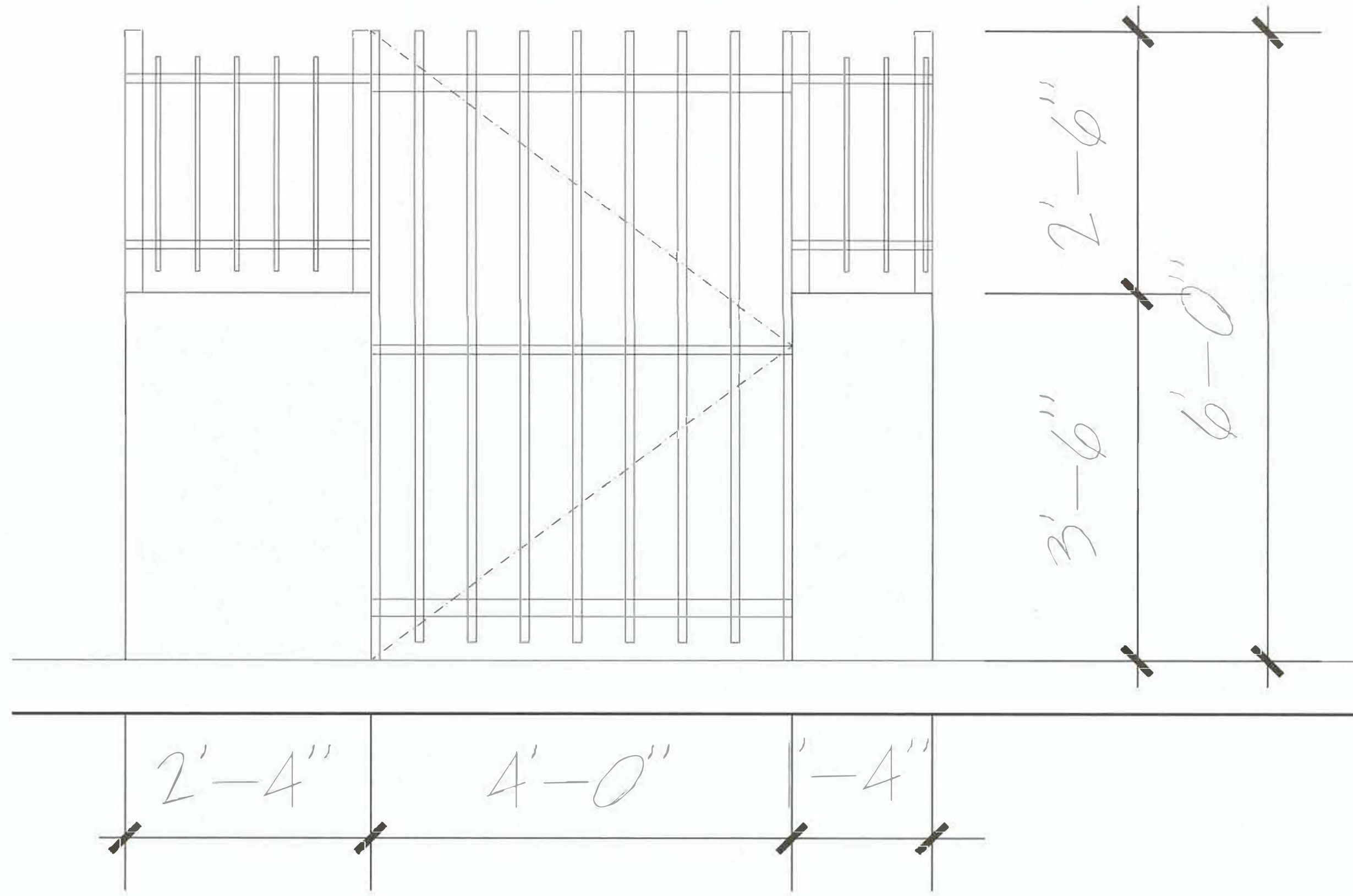


NOTE: VERIFY ALL DIMENSIONS ON SITE

ENTRY GATE SOUTH ELEVATION

SCALE: 1" = 1'-0"

4

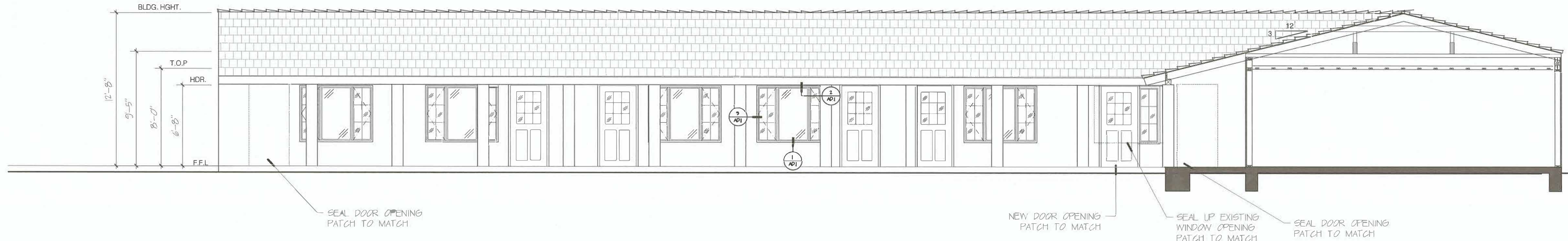


NOTE: VERIFY ALL DIMENSIONS ON SITE

ENTRY GATE NORTH ELEVATION

SCALE: 1" = 1'-0"

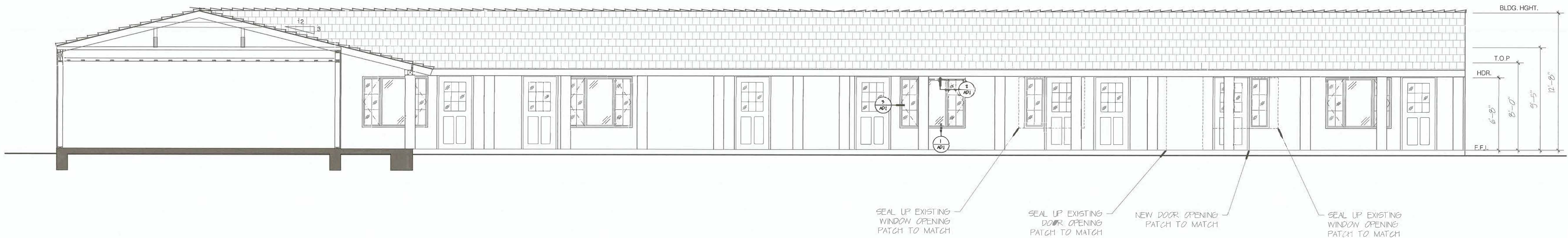
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COURTYARD ELEVATION: PROPOSED NORTH

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

2



COURTYARD ELEVATION: PROPOSED SOUTH

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

1

BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

PROPOSED
ELEVATIONS

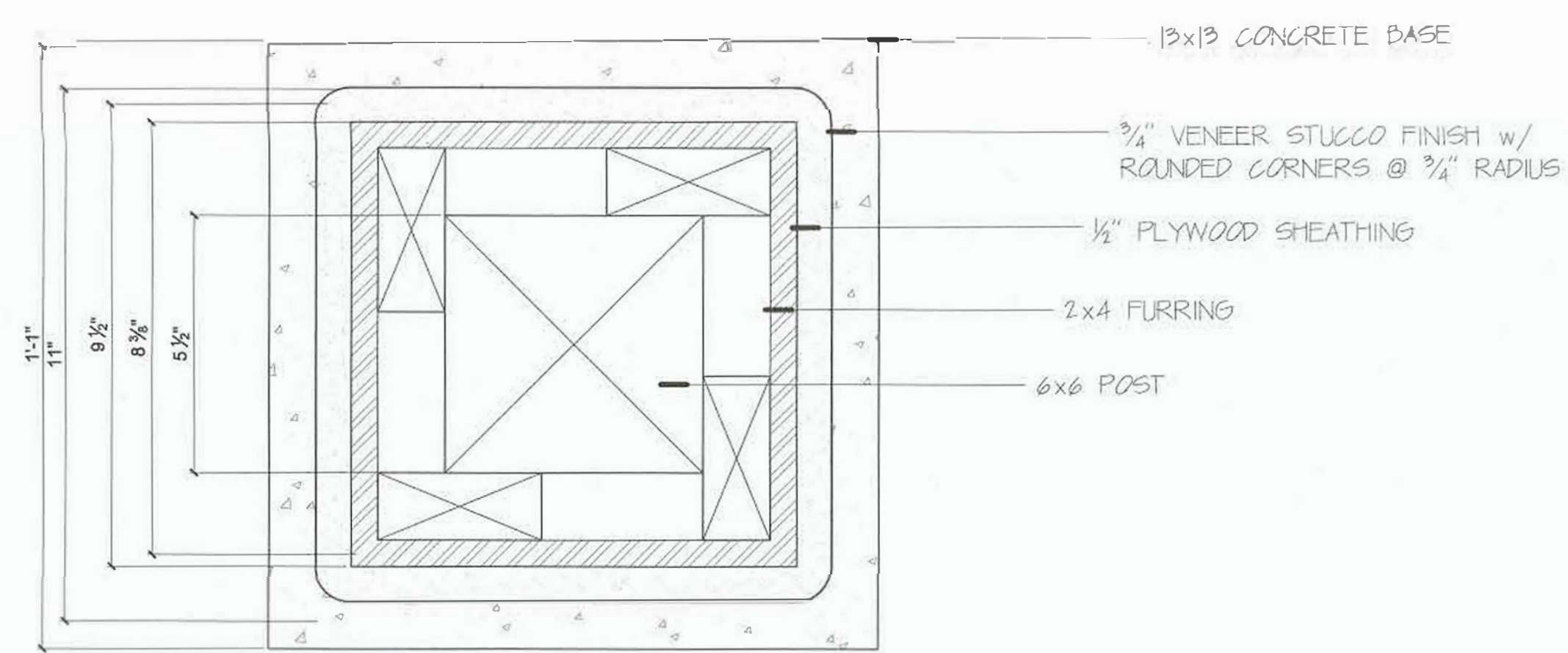
DATE 08/01/22
SCALE
DRAWN B.M./L.W.
JOB# YP22005
SHEET#

A4.3

REV/SIONS
1 1/1/2022 PLAN CHECK 1

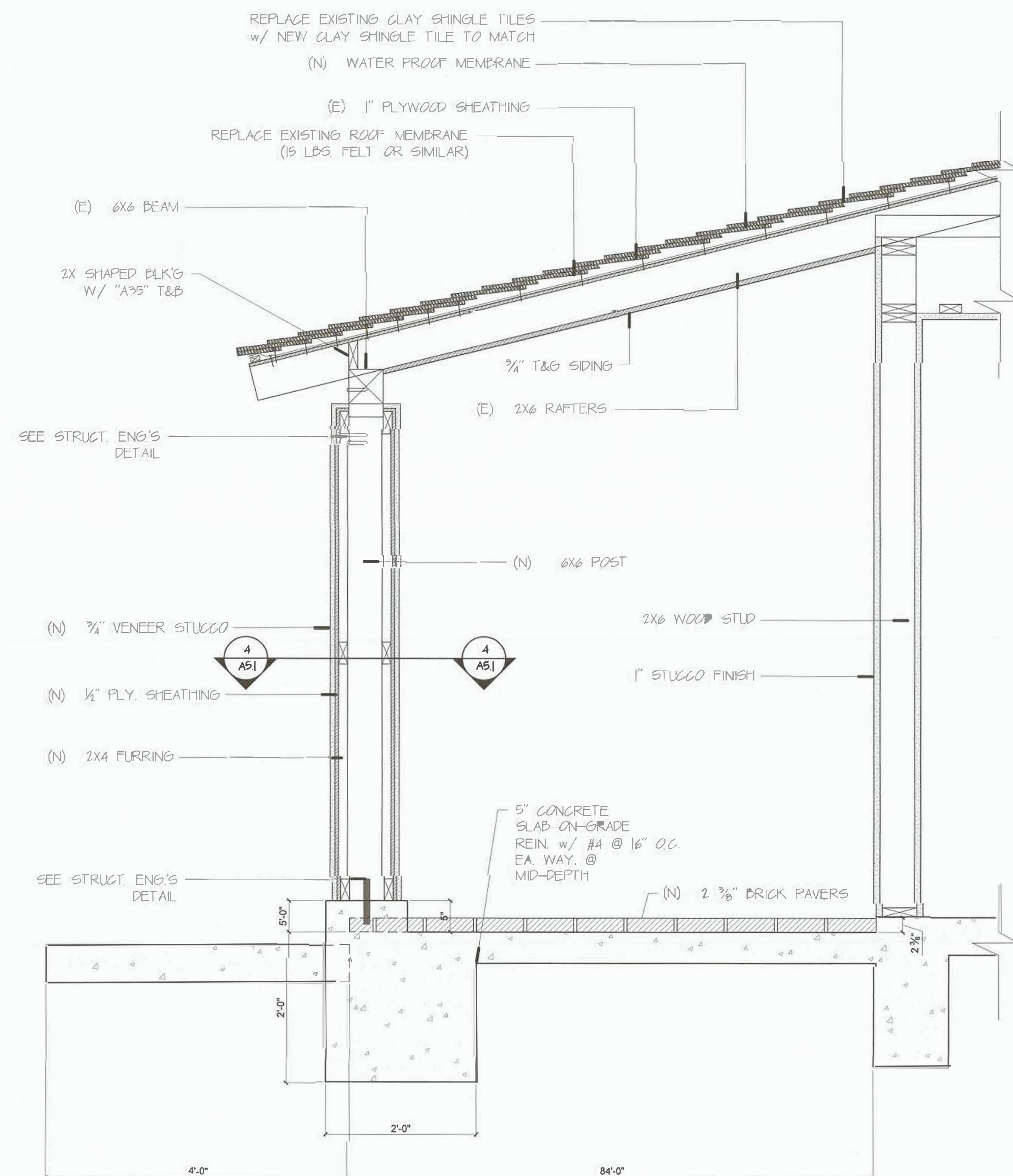


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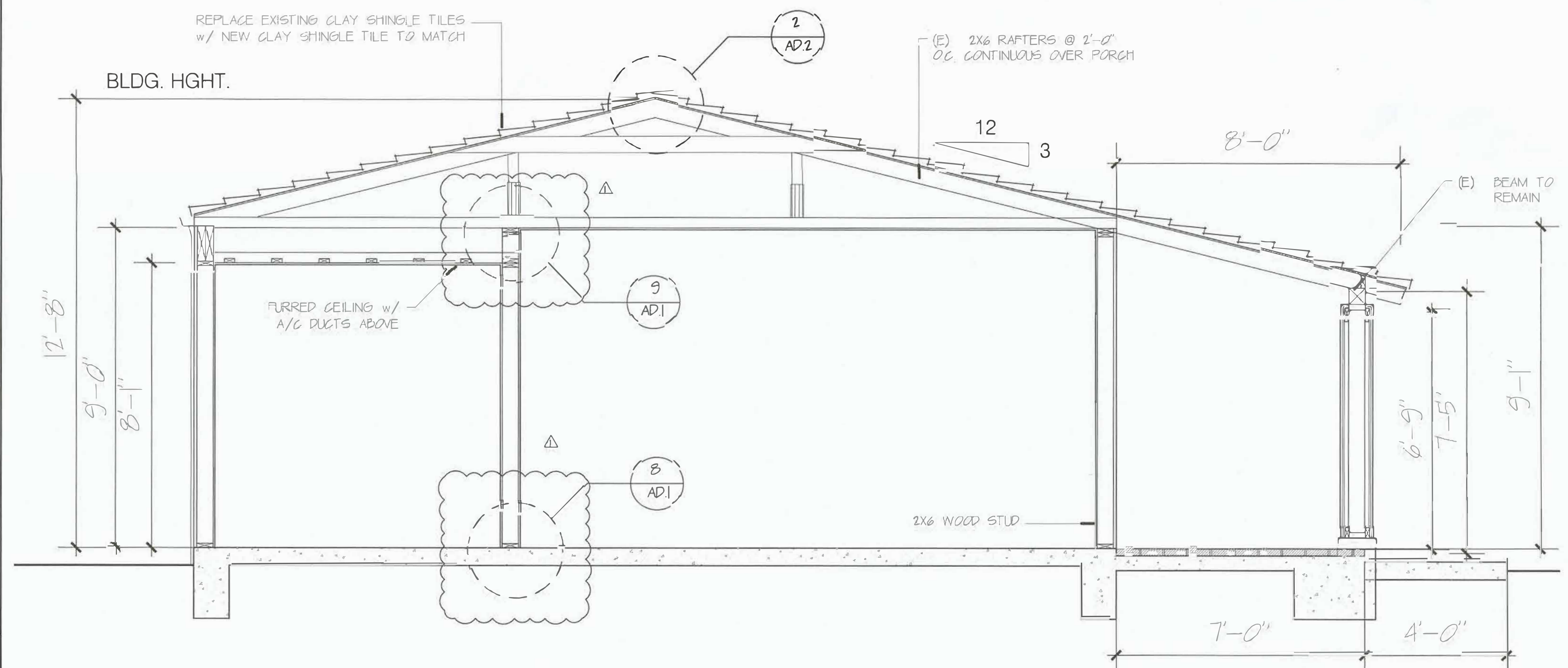
DETAIL CUT OF 6X6 POST

SCALE: 1" = 1'-0" 4



ENTRY GATE NORTH ELEVATION

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



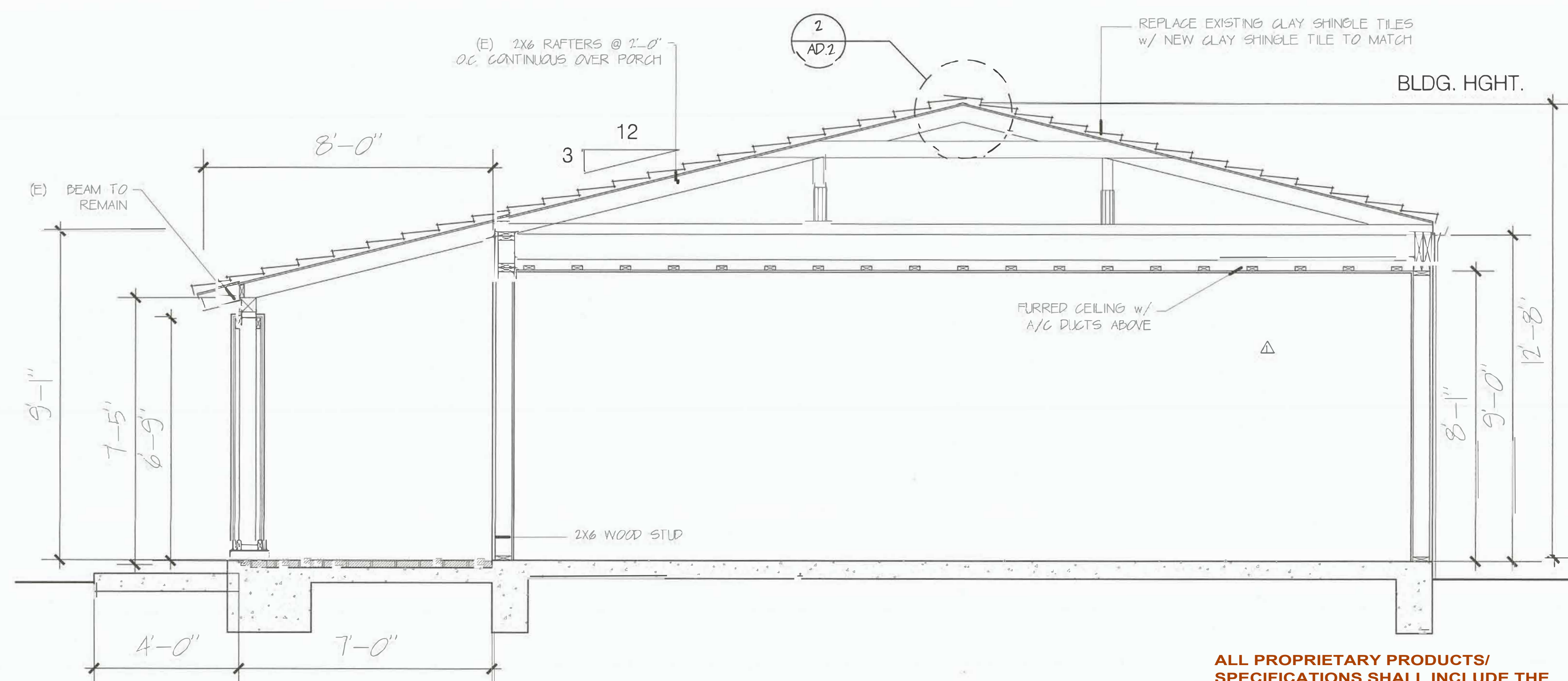
PROPOSED SECTION B

SCALE: 3/4" = 1'-0" 2

SUSPENDED CEILINGS IN SEISMIC DESIGN

CATEGORIES D, E & F COMPLY WITH ASCE 7-16 SECTION 13.5.6.2.2 AS FOLLOWS:

- THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE OR CHANNEL SHALL BE NOT LESS THAN 2.0 IN. UNLESS QUALIFIED PERIMETER SUPPORTING CLIPS ARE USED.
- CLOSURE ANGLES OR CHANNELS SHALL BE SCREWED OR OTHERWISE POSITIVELY ATTACHED TO WALL STUDS OR OTHER SUPPORTING STRUCTURES. PERIMETER SUPPORTING CLIPS SHALL BE QUALIFIED IN ACCORDANCE WITH APPROVED TEST CRITERIA PER SECTION 13.2.5.
- PERIMETER SUPPORTING CLIPS SHALL BE ATTACHED TO SUPPORTING CLOSURE ANGLE OR CHANNEL WITH A MINIMUM OF TWO SCREWS PER CLIP AND SHALL BE INSTALLED AROUND THE ENTIRE CEILING PERIMETER.
- IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE, CHANNEL, OR PERIMETER SUPPORTING CLIP. THE OTHER END OF THE CEILING GRID IN EACH HORIZONTAL DIRECTION SHALL HAVE A MINIMUM 0.75-IN CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE, CHANNEL, OR PERIMETER SUPPORTING CLIP.
- CEILING AREAS OVER 2500 FT.² MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS.
- CEILINGS WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZE TRIM RINGS FOR SPRINKLERS AND OTHER CEILING PENETRATIONS.



PROPOSED SECTION A

SCALE: 3/4" = 1'-0" 1

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.

REV 9/05

1/1/02

ARCHITECTS

LICENSED ARCHITECT

BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

PROPOSED
SECTION A+B

DATE 03/01/22

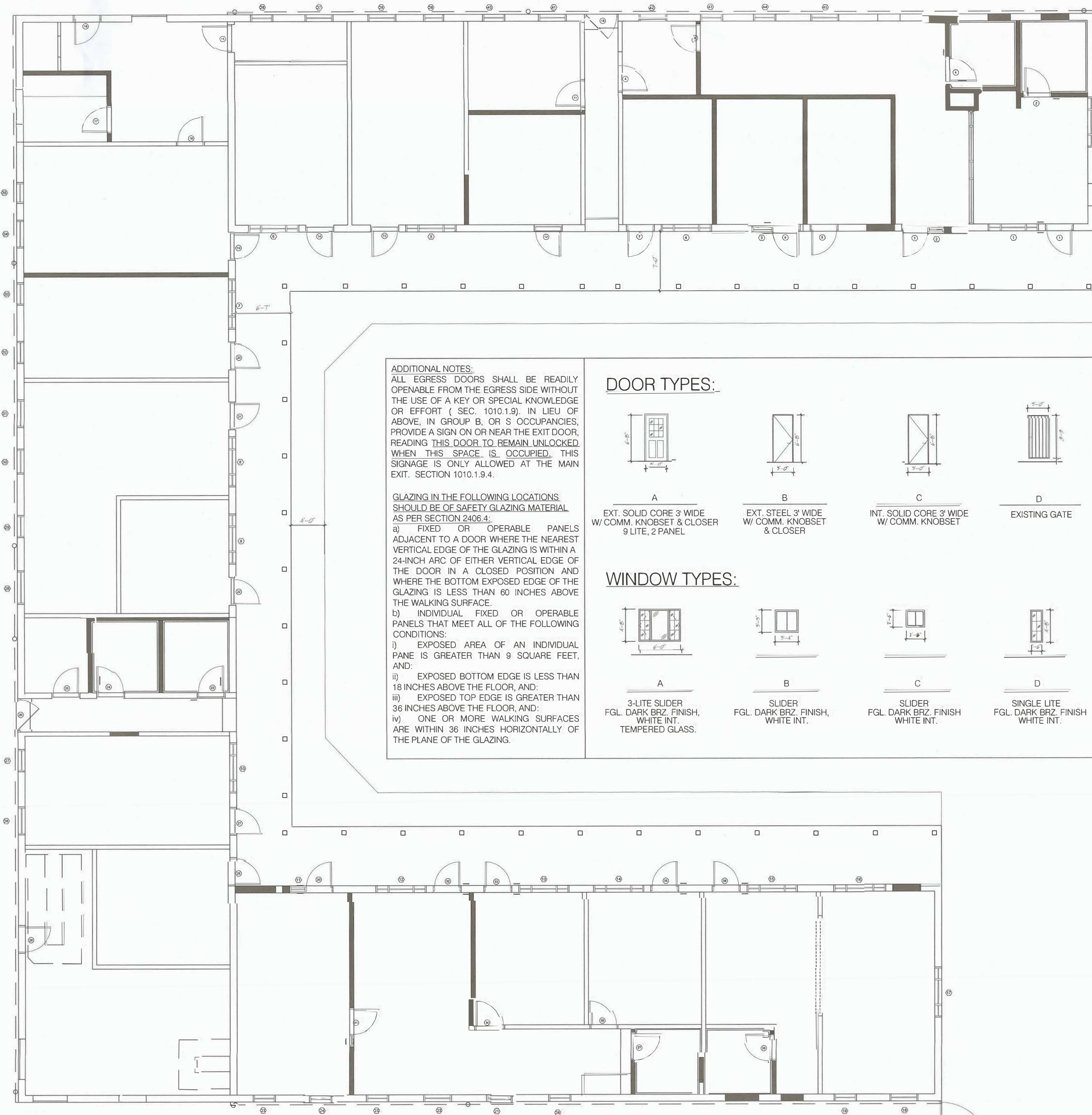
SCALE

DRAWN B.M./L.W.

JOB# YP22005

SHEET#

A5.1

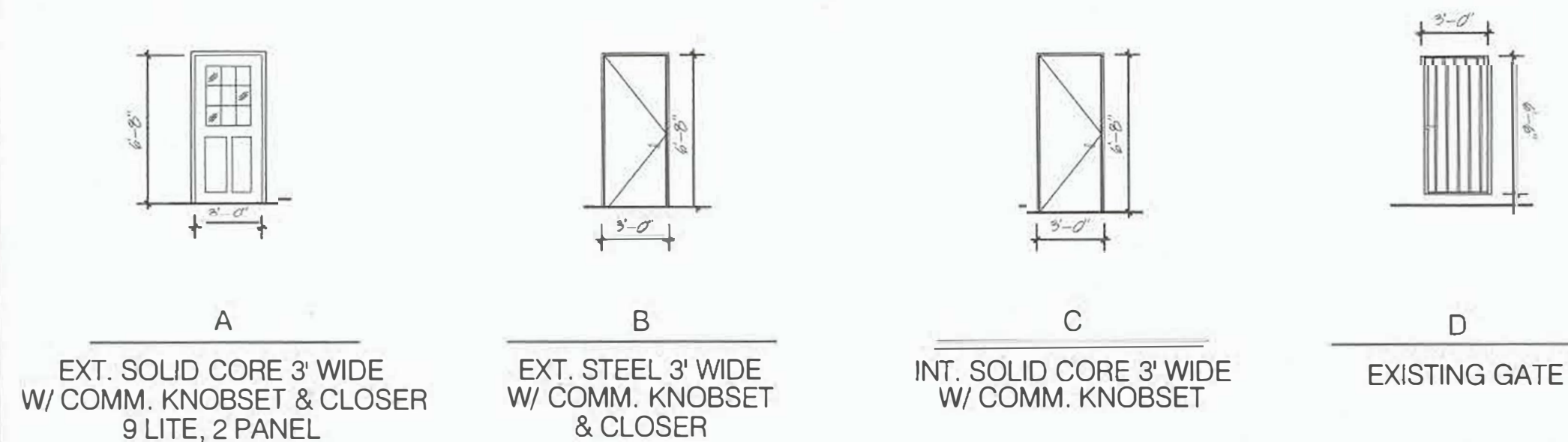


ALL PROPRIETARY PRODUCTS/
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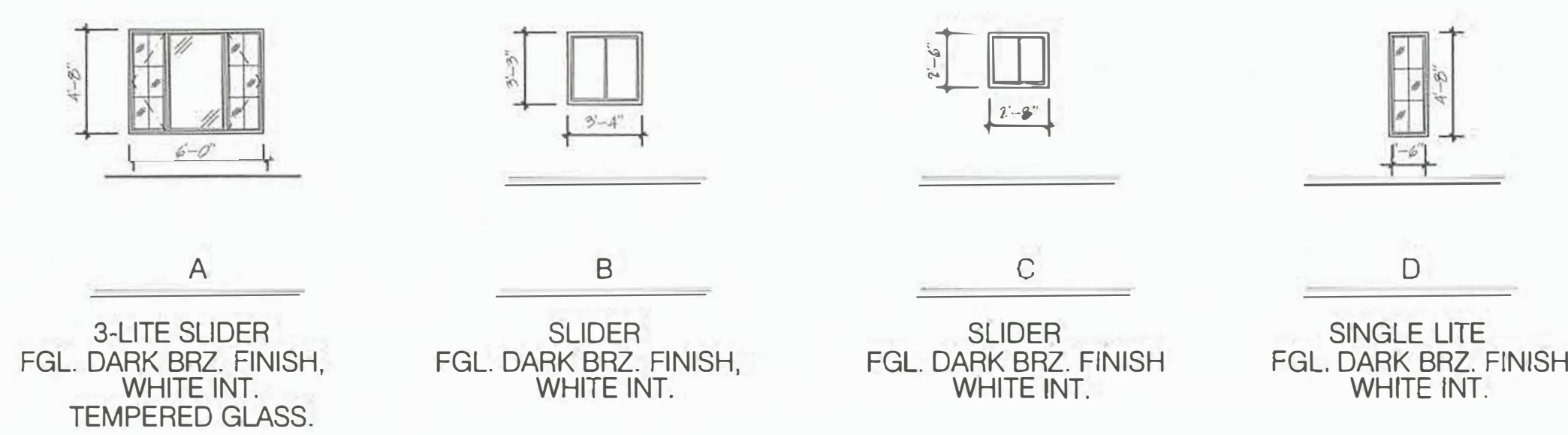
ADDITIONAL NOTES:
ALL EGRESS DOORS SHALL BE READILY
OPENABLE FROM THE EGRESS SIDE WITHOUT
THE USE OF A KEY OR SPECIAL KNOWLEDGE
OR EFFORT (SEC. 1010.1.9). IN LIEU OF
ABOVE, IN GROUP B, OR S OCCUPANCIES,
PROVIDE A SIGN ON OR NEAR THE EXIT DOOR,
READING THIS DOOR TO REMAIN UNLOCKED
WHEN THIS SPACE IS OCCUPIED. THIS
SIGNAGE IS ONLY ALLOWED AT THE MAIN
EXIT. SECTION 1010.1.9.4.

GLAZING IN THE FOLLOWING LOCATIONS
SHOULD BE OF SAFETY GLAZING MATERIAL
AS PER SECTION 2406.4:
a) FIXED OR OPERABLE PANELS
ADJACENT TO A DOOR WHERE THE NEAREST
VERTICAL EDGE OF THE GLAZING IS WITHIN A
24-INCH ARC OF EITHER VERTICAL EDGE OF
THE DOOR IN A CLOSED POSITION AND
WHERE THE BOTTOM EXPOSED EDGE OF THE
GLAZING IS LESS THAN 60 INCHES ABOVE
THE WALKING SURFACE.
b) INDIVIDUAL FIXED OR OPERABLE
PANELS THAT MEET ALL OF THE FOLLOWING
CONDITIONS:
i) EXPOSED AREA OF AN INDIVIDUAL
PANE IS GREATER THAN 9 SQUARE FEET,
AND:
ii) EXPOSED BOTTOM EDGE IS LESS THAN
18 INCHES ABOVE THE FLOOR, AND:
iii) EXPOSED TOP EDGE IS GREATER THAN
36 INCHES ABOVE THE FLOOR, AND:
iv) ONE OR MORE WALKING SURFACES
ARE WITHIN 36 INCHES HORIZONTALLY OF
THE PLANE OF THE GLAZING.

DOOR TYPES:



WINDOW TYPES:



WINDOW SCHEDULE

SYM	SIZE	TYPE	DESCRIPTION	U-VALUE	SHGC	COMMENTS
①	6048 SL	A	FIBERGLASS, DUAL PANE			TEMPERED
②-3	2048 FX	D	FIBERGLASS, DUAL PANE			TEMPERED
④-10	6048 SL	A	FIBERGLASS, DUAL PANE			TEMPERED
⑪	2048 FX	D	FIBERGLASS, DUAL PANE			TEMPERED
⑫-17	6048 SL	A	FIBERGLASS, DUAL PANE			TEMPERED
⑱	3433 SL	B	FIBERGLASS, DUAL PANE			TEMPERED
⑲	2826 SL	C	FIBERGLASS, DUAL PANE			TEMPERED
⑳	2826 SL	C	FIBERGLASS, DUAL PANE			TEMPERED
㉑-22	3433 SL	B	FIBERGLASS, DUAL PANE			TEMPERED
㉒-25	2826 SL	C	FIBERGLASS, DUAL PANE			TEMPERED
㉔	3433 SL	B	FIBERGLASS, DUAL PANE			TEMPERED
㉕	2826 SL	C	FIBERGLASS, DUAL PANE			TEMPERED
㉖	3433 SL	B	FIBERGLASS, DUAL PANE			TEMPERED
㉗	2826 SL	C	FIBERGLASS, DUAL PANE			TEMPERED
㉘	3433 SL	B	FIBERGLASS, DUAL PANE			TEMPERED
㉙	2826 SL	C	FIBERGLASS, DUAL PANE			TEMPERED
㉚-31	3433 SL	B	FIBERGLASS, DUAL PANE			TEMPERED
㉛-33	2826 SL	C	FIBERGLASS, DUAL PANE			TEMPERED
㉜	3433 SL	B	FIBERGLASS, DUAL PANE			TEMPERED
㉝	2826 SL	C	FIBERGLASS, DUAL PANE			TEMPERED
㉞	2826 SL	C	FIBERGLASS, DUAL PANE			TEMPERED
㉟-38	3433 SL	B	FIBERGLASS, DUAL PANE			TEMPERED
㊱-40	2826 SL	C	FIBERGLASS, DUAL PANE			TEMPERED
㊲-42	3433 SL	B	FIBERGLASS, DUAL PANE			TEMPERED
㊳-44	2826 SL	C	FIBERGLASS, DUAL PANE			TEMPERED
㊴	3433 SL	B	FIBERGLASS, DUAL PANE			TEMPERED
㊵	6048 SL	A	FIBERGLASS, DUAL PANE			TEMPERED

ABBREVIATIONS:

SL: SLIDING SH: SINGLE HUNG AW: AWNING FX: FIXED CAS: CASEMENT TEMP: TEMPERED

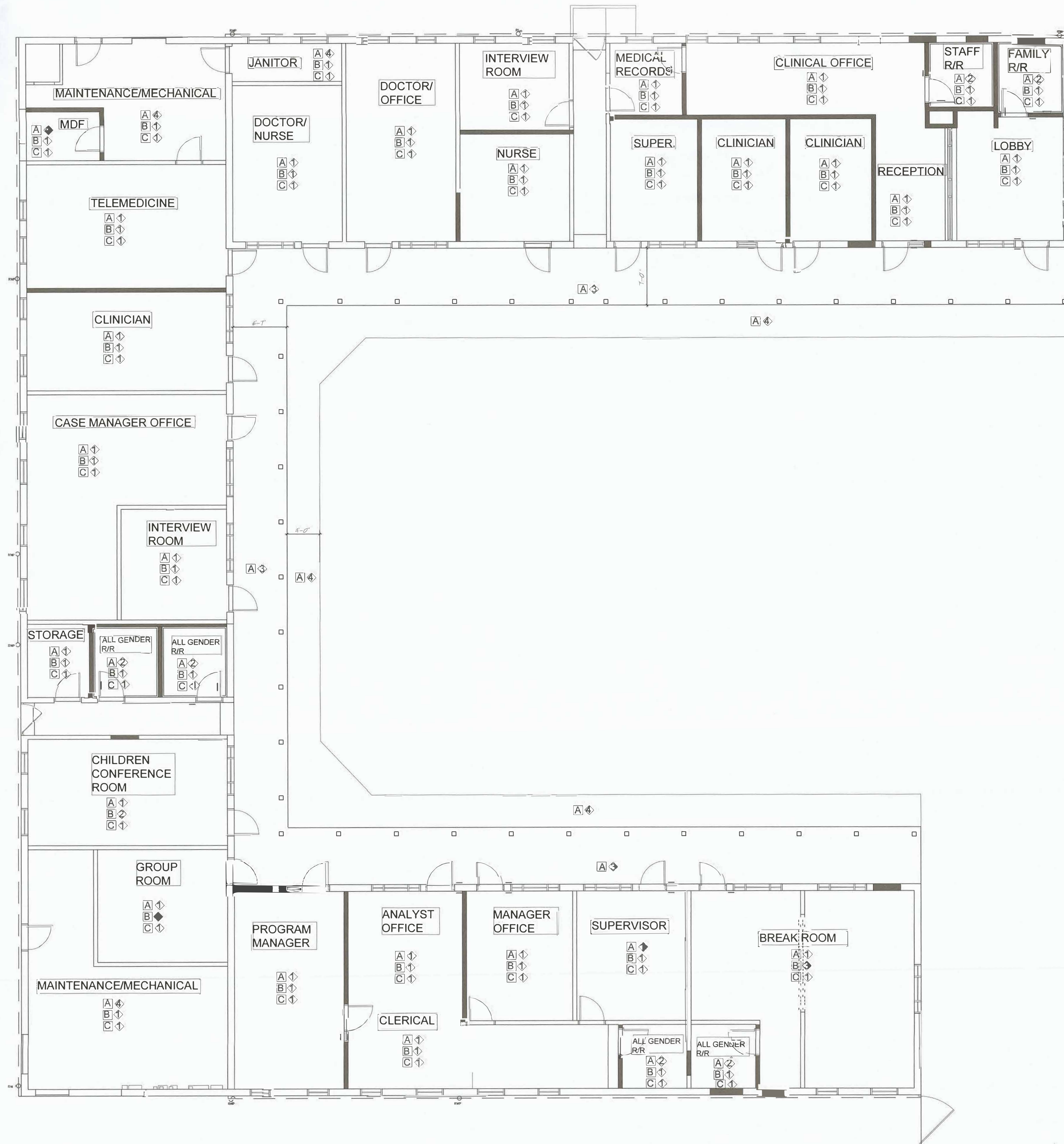
DOOR SCHEDULE

SYM	SIZE	DOOR TYPE	MATERIAL	FINISH	FRAME MATERIAL	FINISH	COMMENTS
①	3068	A	WOOD/ GLAZING	P	WOOD	P	TEMPERED
②	3068	C	SOLID WOOD	P	WOOD	P	TEMPERED
③	3068	A	WOOD/ GLAZING	P	WOOD	P	TEMPERED
④	3068	C	SOLID WOOD	P	WOOD	P	TEMPERED
⑤-7	3068	A	WOOD/ GLAZING	P	WOOD	P	TEMPERED
⑧	3068	B				P	
⑨	3068	C	WOOD/ GLAZING		WOOD		
⑩	3066	D					
⑪	3068	B					
⑫-14	3068	A	WOOD/ GLAZING	P	WOOD	P	TEMPERED
⑮	3068	C			WOOD		
⑯	3068	C			WOOD		
⑰	3068	C			WOOD		
⑱	3068	C			WOOD	P	1HR. FIRE-RATED
⑲-22	3068	A	WOOD/ GLAZING	P	WOOD	P	TEMPERED
㉑-25	3068	B	HOLLOW METAL	P	WOOD	P	
㉒	3066	D				P	
㉓-28	3068	A	WOOD/ GLAZING	P	WOOD	P	TEMPERED
㉔	3068	A					TEMPERED
㉕	3068	A	WOOD/ GLAZING	P	WOOD		TEMPERED
㉖	3068	C			WOOD	P	
㉗-33	3068	A	WOOD/ GLAZING	P	WOOD	P	TEMPERED
㉘	3068	C			WOOD		
㉙	3068	A	WOOD/ GLAZING	P	WOOD	P	TEMPERED
㉚	3068	C			WOOD	P	TEMPERED
㉛	3068	C			WOOD	P	
㉜	3080	A	WOOD/ GLAZING	P	WOOD	P	TEMPERED
㉝	3068	C			WOOD		

BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 922 43

DOOR + WINDOW SCHEDULE

DATE 08/01/22
SCALE SEE PLAN
DRAWN B.M./L.W.
JOB# YP22005
SHEET# A6.1



LEGEND

A. FLOOR FINISH

1. LVT: LUXURY VINYL TILE
MANUFACTURER: NAUVIO
MODEL: ARDEN SERIES
2. CERAMIC TILE: VENETA ARGENTO 12x24 HD
PORCELAIN TILE
MANUFACTURER: ANATOLIA TILE AND STONE
MODEL: VENETA ARGENTO
3. BRICK PAVER
MANUFACTURER: BELGARD
MODEL: CATALINA GRANITE PAVER
4. EXPOSED CONCRETE FINISH

B. WALL FINISH

1. PAINT FINISH OF PLASTER OVER
DRYWALL
MANUFACTURER: SHERWIN WILLIAMS
COLOR:
2. PAINT FINISH OF PLASTER OVER
DRYWALL
MANUFACTURER: SHERWIN WILLIAMS
COLOR:
3. PAINT FINISH OF PLASTER OVER
DRYWALL
MANUFACTURER: SHERWIN WILLIAMS
COLOR:

C. CEILING FINISH

1. PAINT FINISH OF PLASTER OVER
DRYWALL
MANUFACTURER: SHERWIN WILLIAMS
COLOR:

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
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BETTER" STATEMENT.

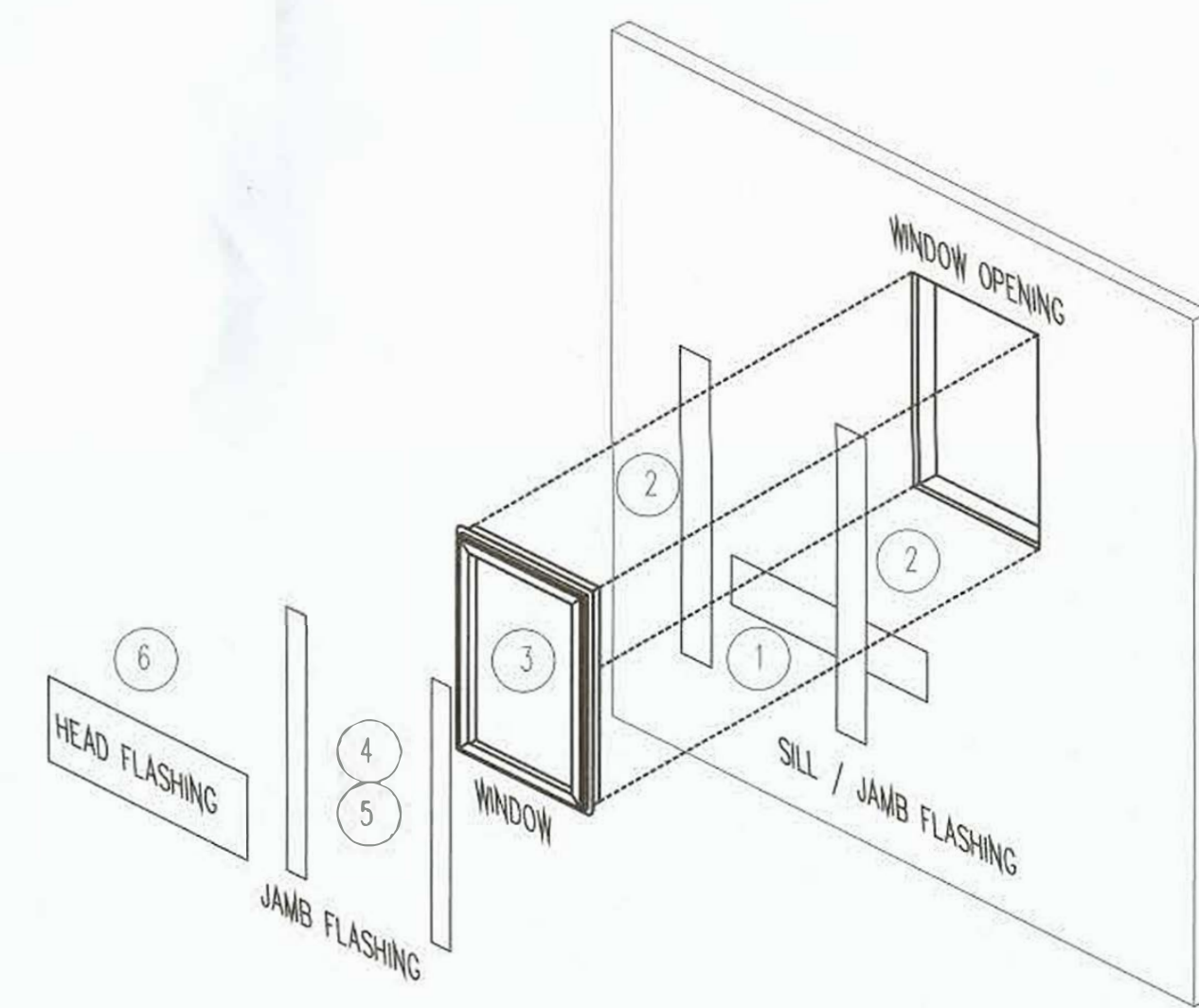
FINISHES PLAN/ SCHEDULE

BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120N. 8th. STREET, EL CENTRO, CA 92243

FINISHES PLAN /SCHEDULE

DATE: 08/01/22
SCALE: SEE PLAN
DRAWN: P.M./L.W.
JOB#: YP22005

SHEET#
A6.2



6 HEAD FLASHING

CUT A STRIP OF MOISTOP E-Z SEAL FOR THE HEAD (F) OF THE WINDOW, EXTENDING BEYOND THE JAMB FLASHING IN PLACE. PLACE THE MOISTOP E-Z SEAL ON THE TOP OF THE FLANGE (D) OF THE WINDOW AND SEAL BY APPLYING PRESSURE ALONG THE STRIP.

5 JAMB FLASHING

CUT A STRIP OF MOISTOP E-Z SEAL FOR THE JAMB (E) OF THE WINDOW, EXTENDING BEYOND THE FLANGE (3" MINIMUM TOP AND BOTTOM). PLACE THE MOISTOP E-Z SEAL ON THE TOP OF THE FLANGE (D) OF THE WINDOW AND SEAL BY APPLYING PRESSURE ALONG THE STRIP. REPEAT FOR MOISTOP E-Z SEAL OTHER JAMB.

4 SURFACE PREPARATION

WIPE THE WINDOW FLANGE (D) AND BASE MOISTOP PF FLASHING (B) LAYER CLEAN BEFORE APPLYING MOISTOP E-Z SEAL. CUT THE DESIRED LENGTH OF MOISTOP E-Z SEAL WITH A SHARP KNIFE. PULL OFF THE RELEASE PAPER AND PLACE THE MOISTOP E-Z SEAL ON TOP OF THE WINDOW FLANGE. APPLY FIRM PRESSURE ALONG THE ENTIRE SELF ADHESIVE STRIP TO ENSURE A CONTINUOUS SEAL.

3 WINDOW INSTALLATION

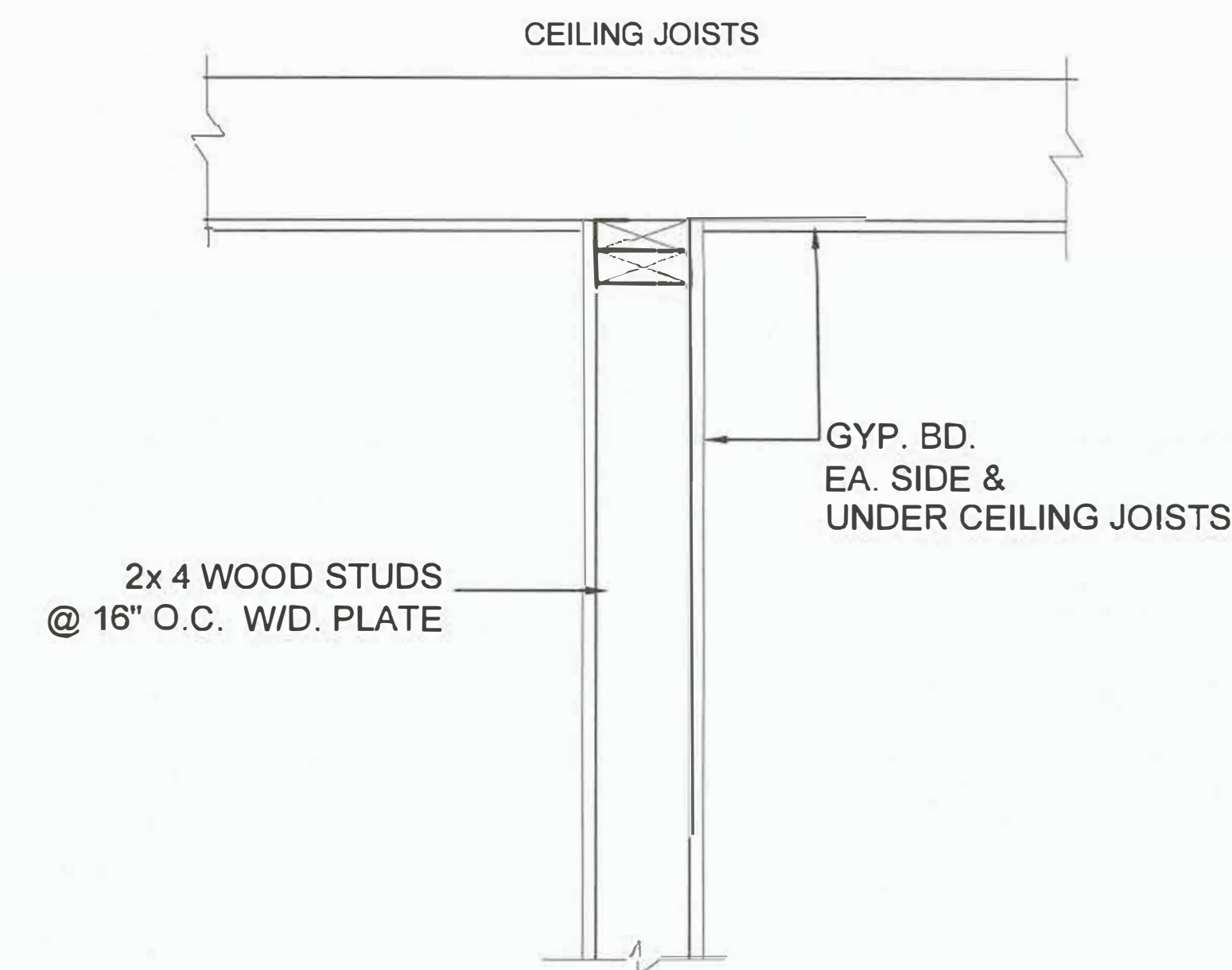
BEFORE INSTALLING THE WINDOW (C), APPLY A CONTINUOUS 3/8" BEAD OF MOISTOP SEALANT TO THE PERIMETER OF THE ROUGH OPENING OR TO THE BACKSIDE OF THE MOUNTING FLANGE (D) OF THE WINDOW. INSTALL THE WINDOW ACCORDING TO THE WINDOW MANUFACTURER'S INSTRUCTIONS.

2 JAMB FLASHING

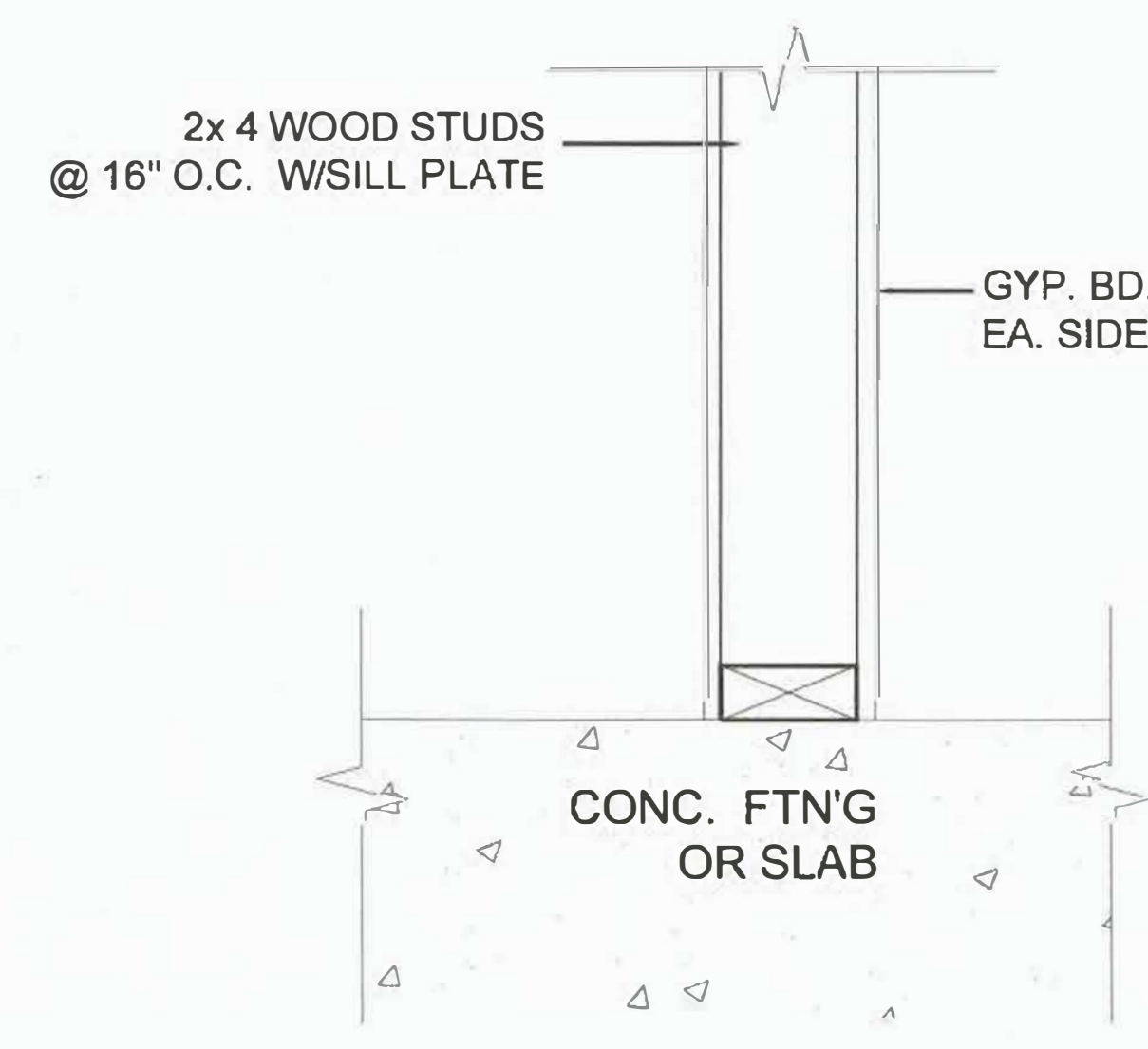
CUT STRIP OF MOISTOP PF FLASHING LONG ENOUGH TO EXTEND BEYOND SILL FLASHING ALREADY IN PLACE, AND ABOVE WHERE THE MOISTOP E-Z SEAL HEAD FLASHING WILL INTERSECT. NEXT ATTACH THE JAMB FLASHING (B) FLUSH TO THE EDGE OF THE ROUGH OPENING LEAVING THE BOTTOM FREE. REPEAT THE STEPS FOR THE REMAINING JAMBS.

1 SILL FLASHING

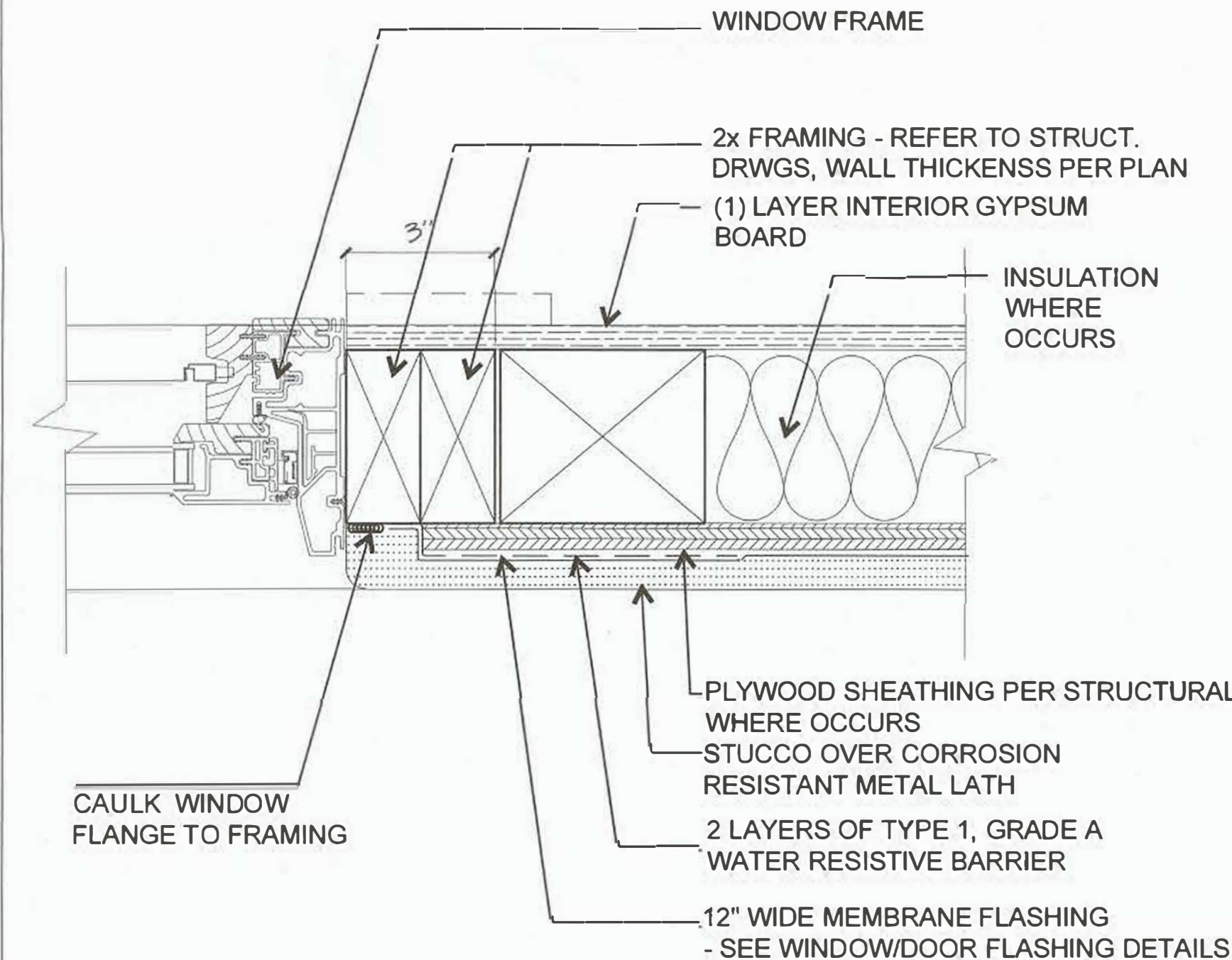
ONCE THE ROUGH OPENING IS PREPARED, PROCEED BY ATTACHING MOISTOP PF FLASHING (A) FLUSH ALONG THE BOTTOM OF THE ROUGH OPENING. BE SURE NOT TO FASTEN THE LOWER EDGE OF THE FLASHING SO THAT JUMBO TEX, FORTIY OR WEATHERSMART MAY BE SLIPPED UP UNDERNEATH THE FLASHING IN A WEATHERBOARD FASHION, EXTEND THE BEYOND THE JAMB FLASHING TO BE APPLIED LATER.



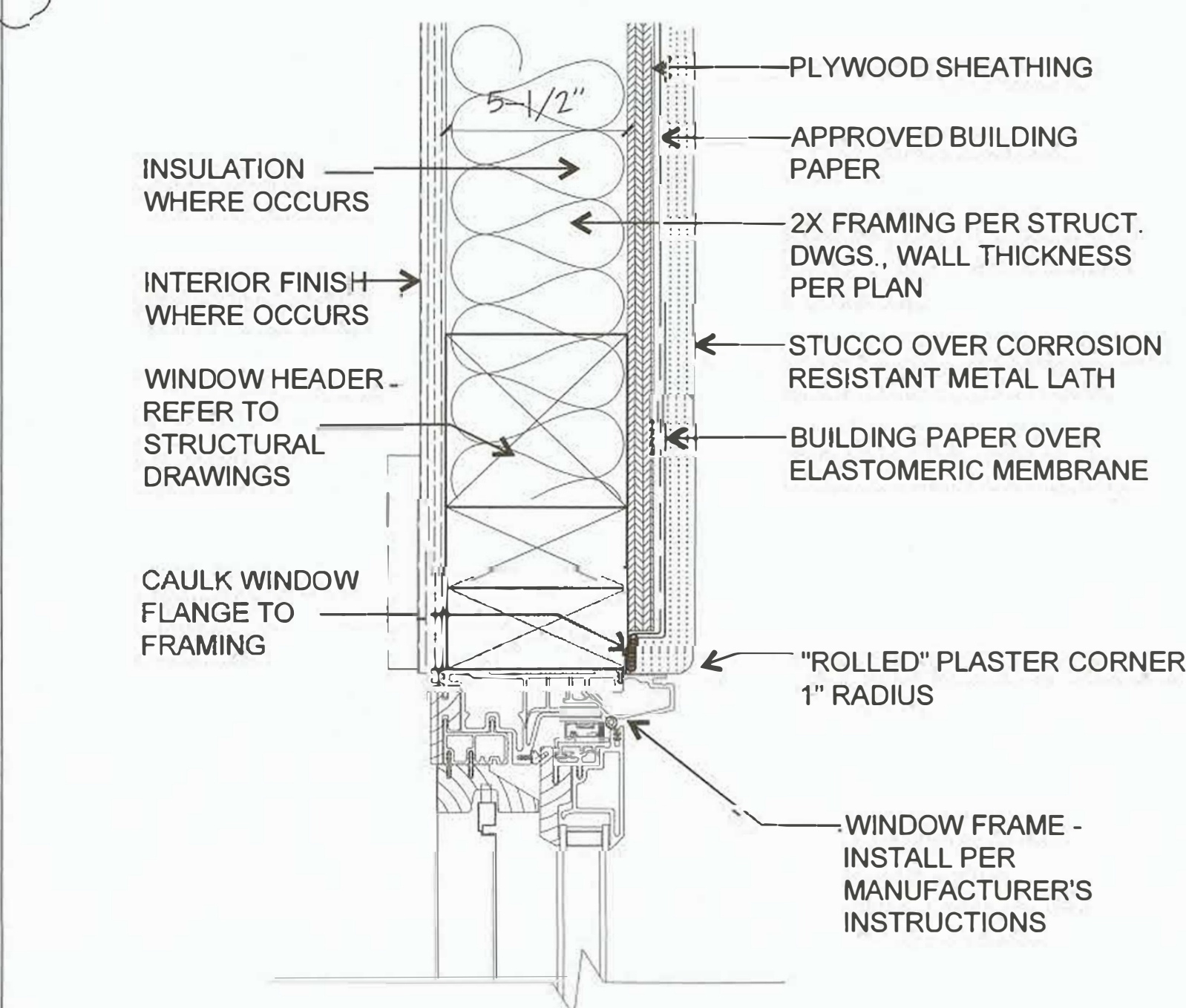
TYP. PART. WALL TO ROOF 9 WINDOW JAMB - STUCCO



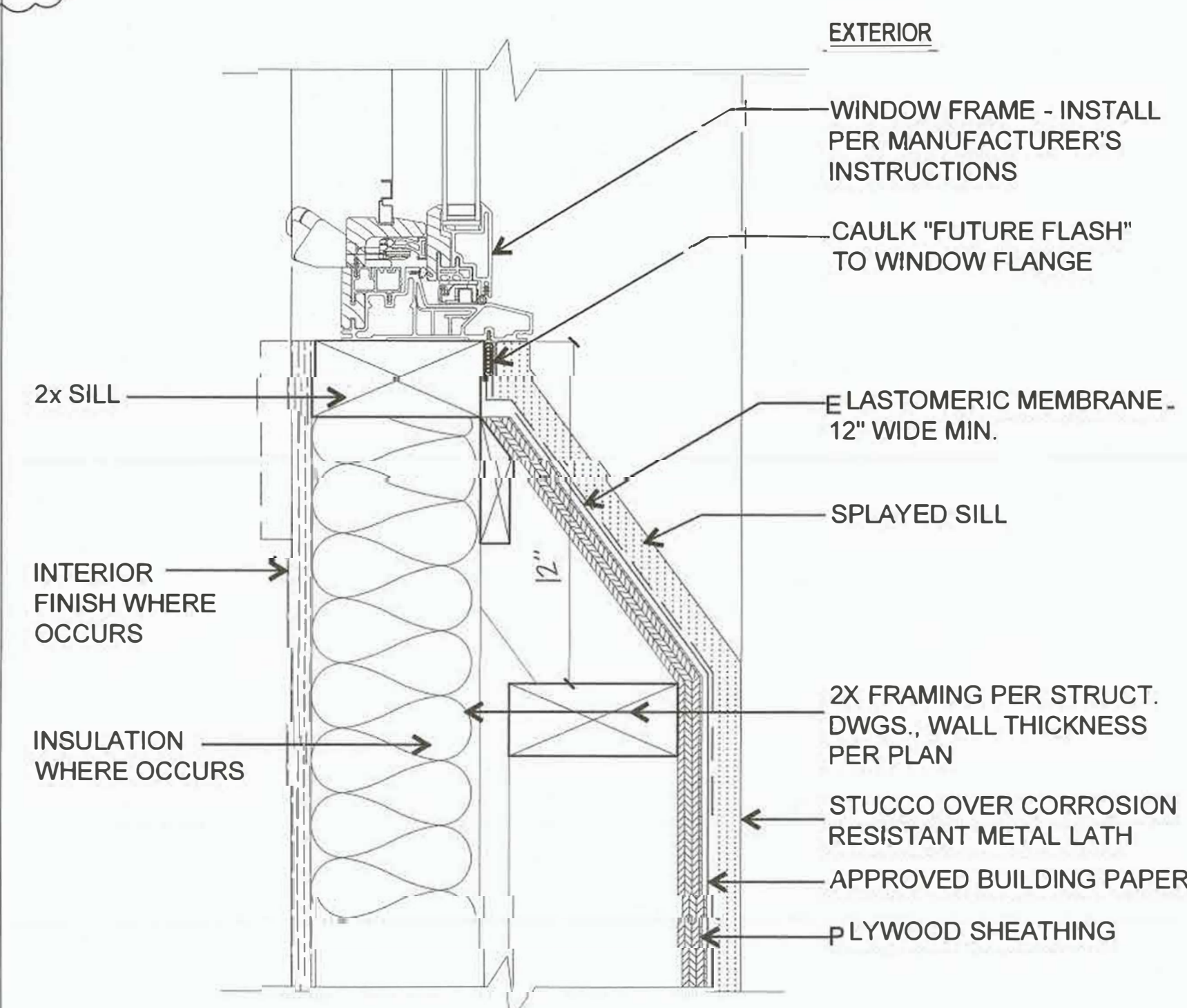
TYP. PART. WALL BASE 8 WINDOW HEAD - STUCCO



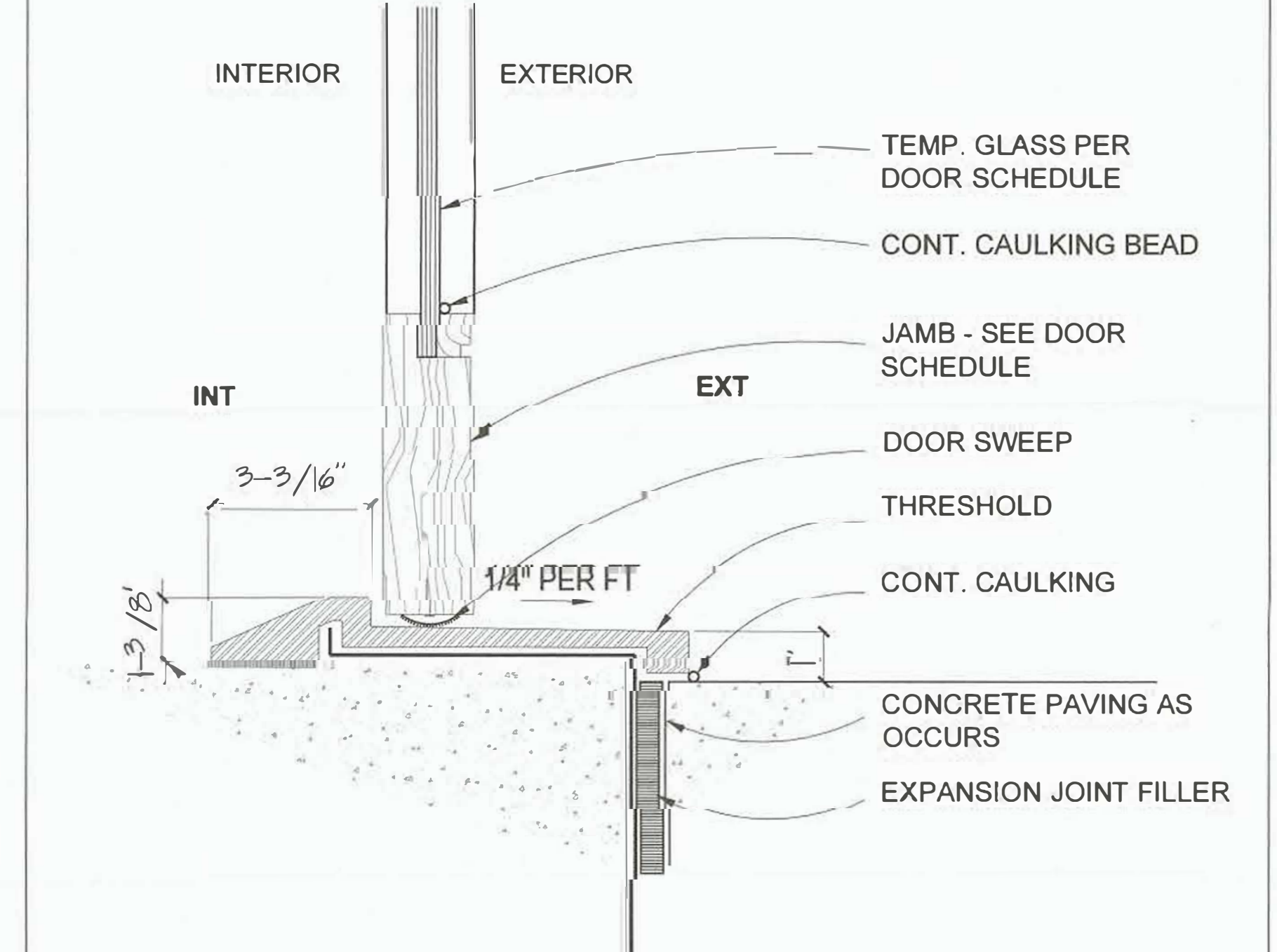
EXTERIOR



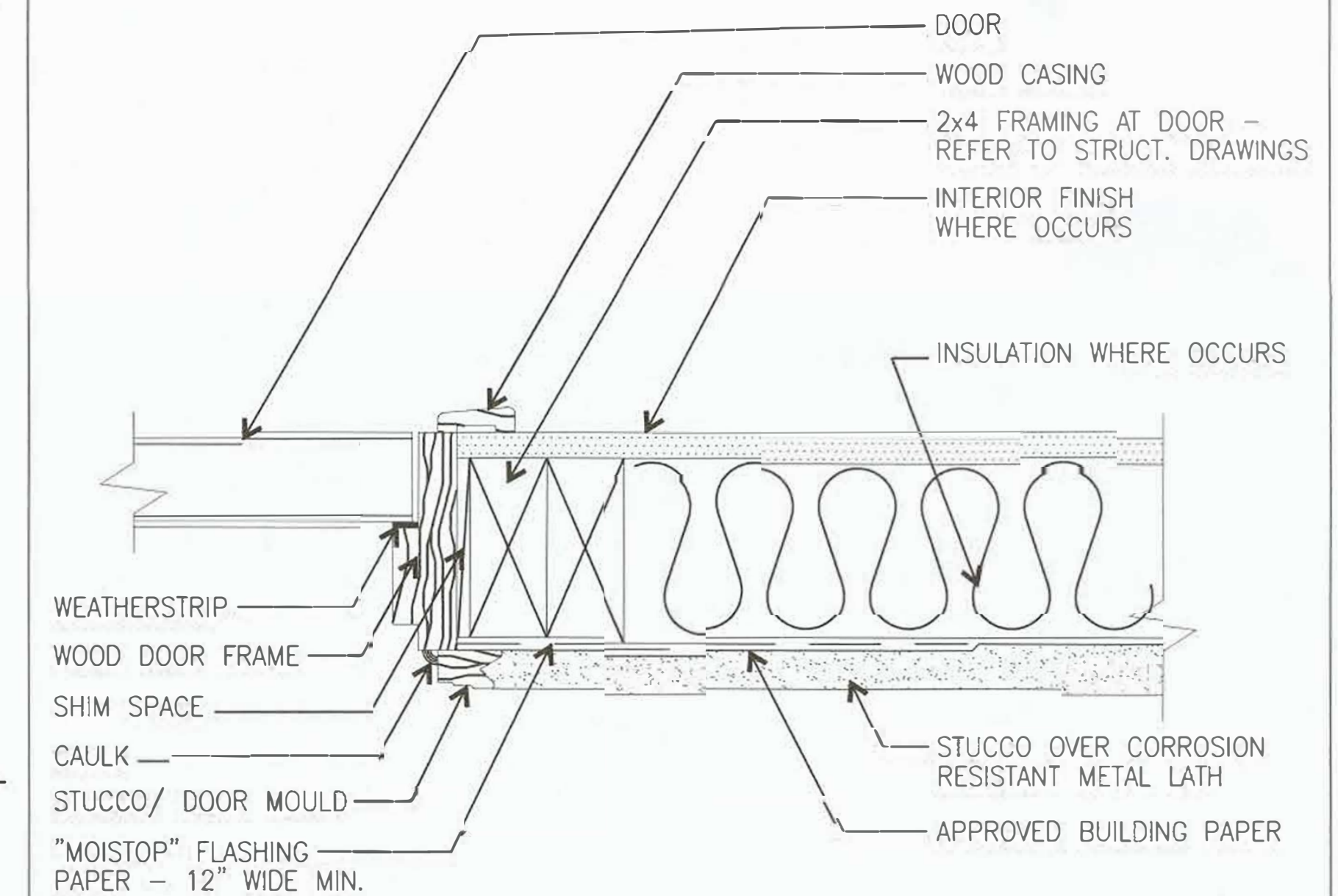
7 WINDOW SILL - STUCCO



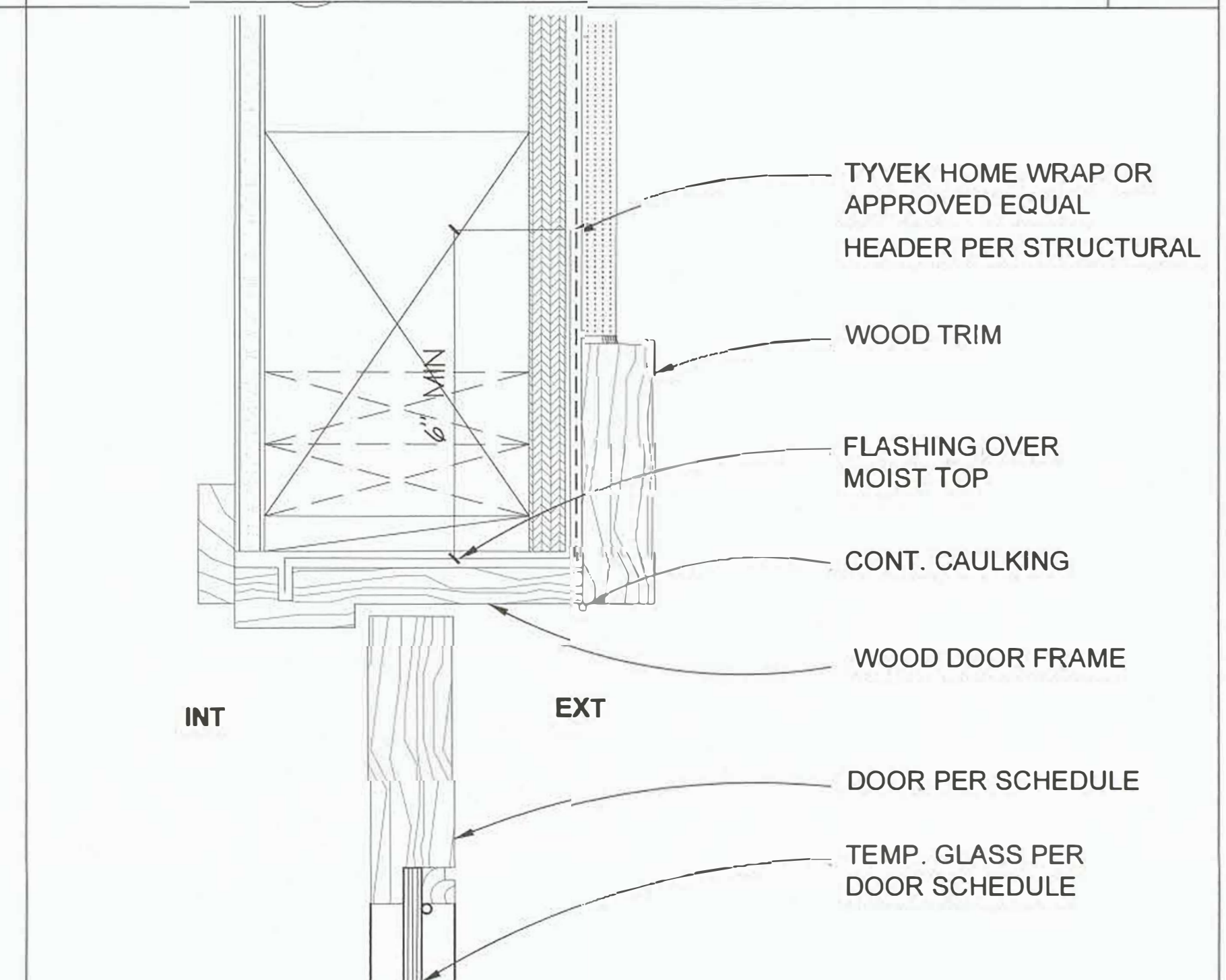
4 DOOR THRESHOLD AT PAVERS



1 DOOR THRESHOLD AT PAVERS



6 TYP. DOOR JAMB



5 TYP. DOOR HEADER (JAMB SIM.) 2

ALL PROPRIETARY PRODUCTS/ SPECIFICATIONS SHALL INCLUDE THE FOLLOWING \"APPROVED EQUAL OR BETTER\" STATEMENT.

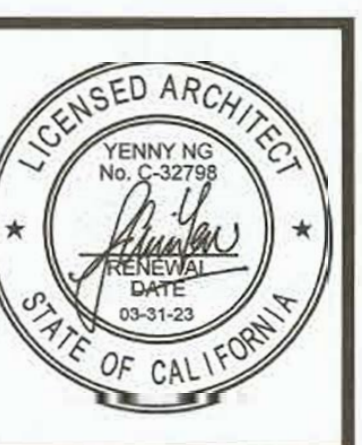
10 WINDOW FLASHING

NOT USED

7 WINDOW SILL - STUCCO

4 DOOR THRESHOLD AT PAVERS

REV	DATE	BY	CHK
1	03/01/22	B.M./L.W.	



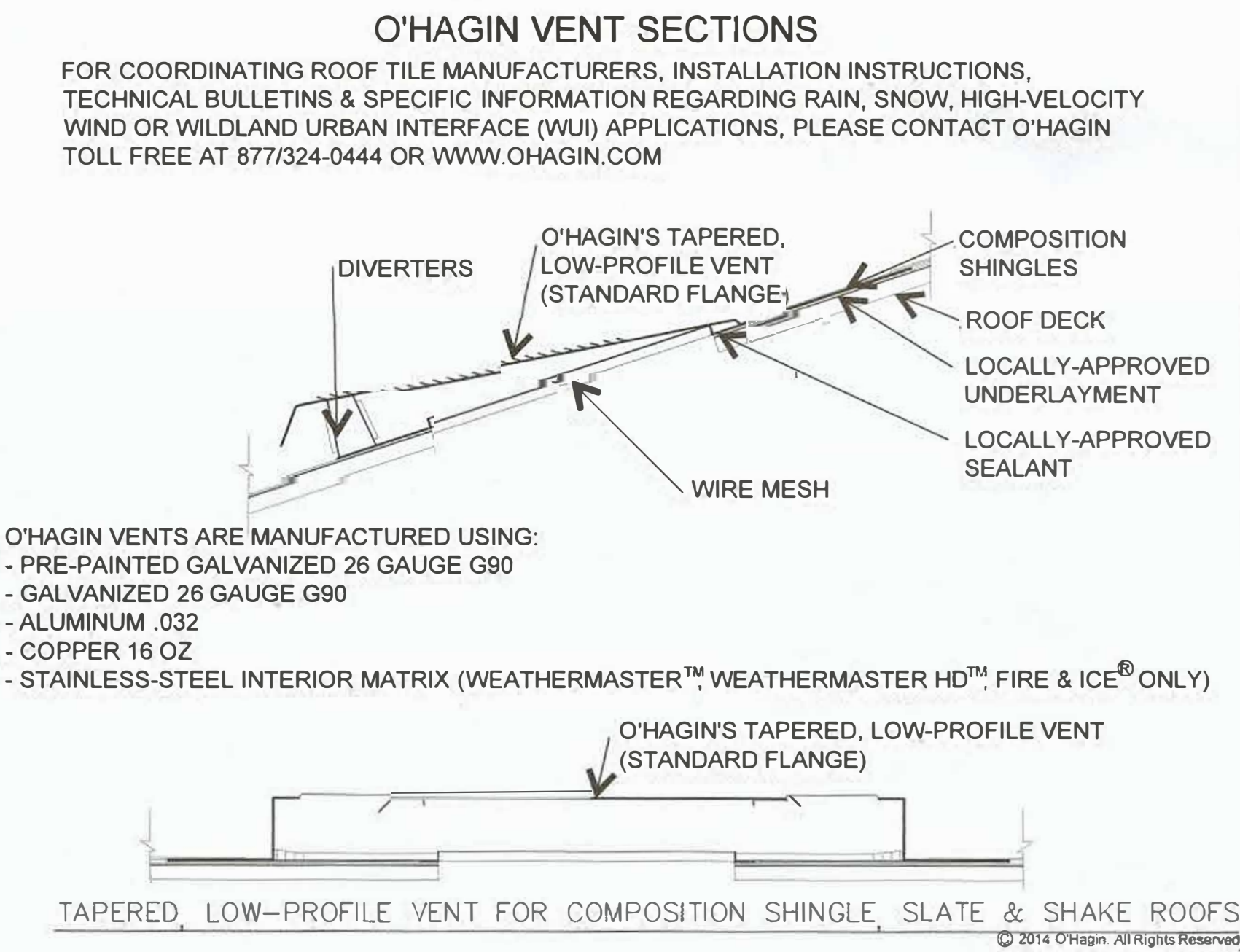
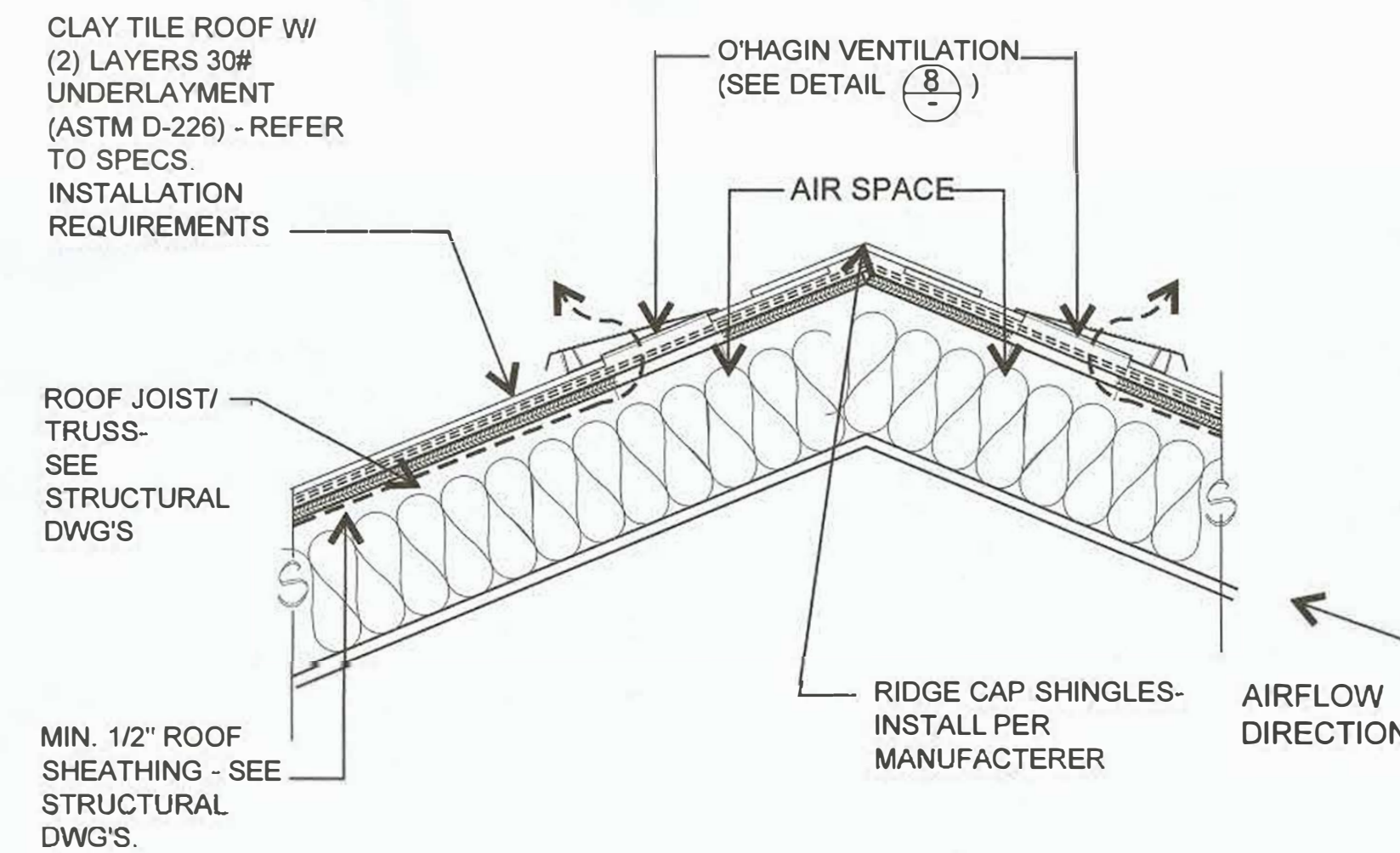
BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

ARCHITECTURAL
DETAILS

DATE	03/01/22
SCALE	
DRAWN	B.M./L.W.
JOB#	YP22005

AD.1

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.



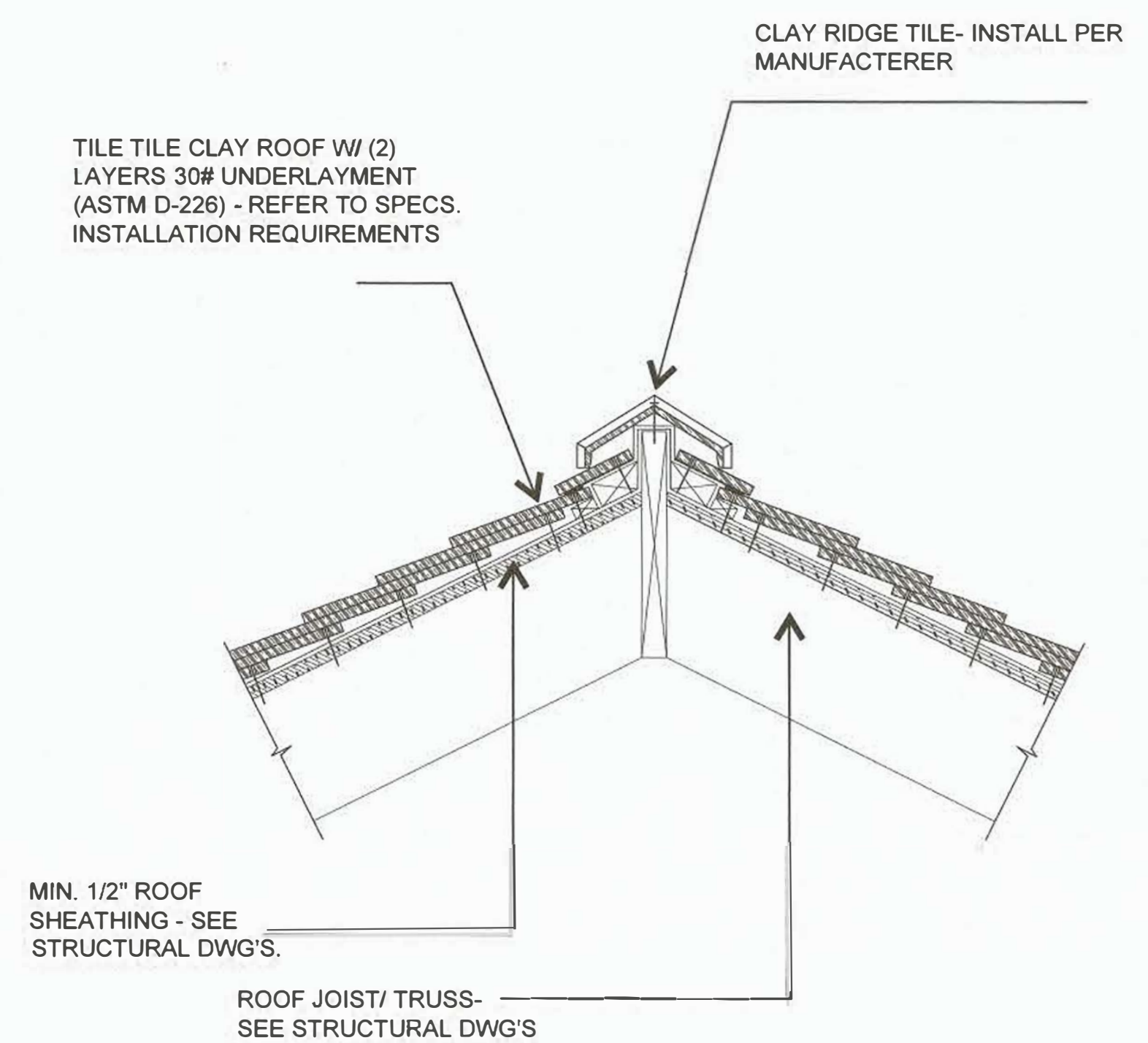
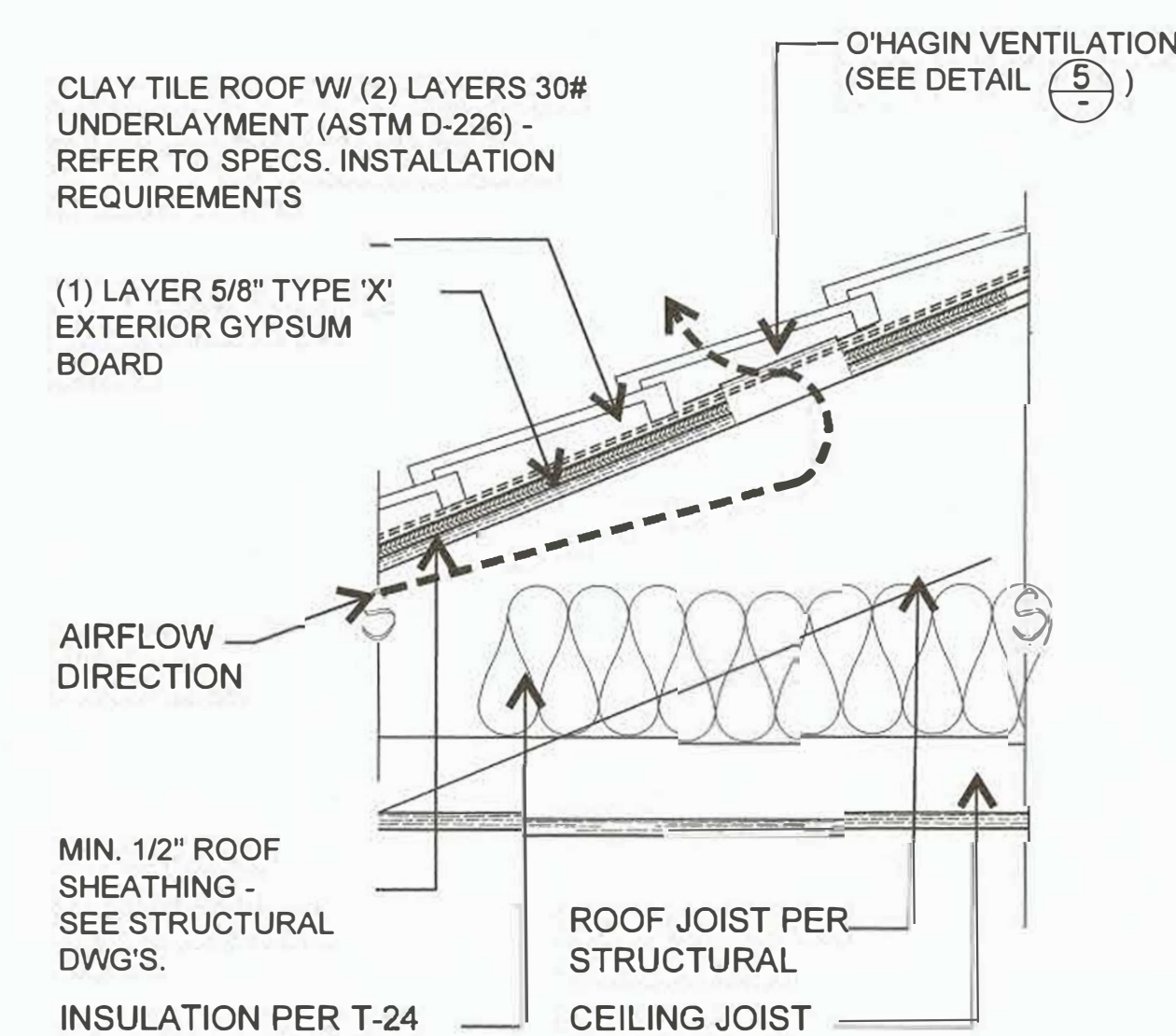
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12 NOT USED

9 VENT AT RIDGE

6 O'HAGIN VENT

3



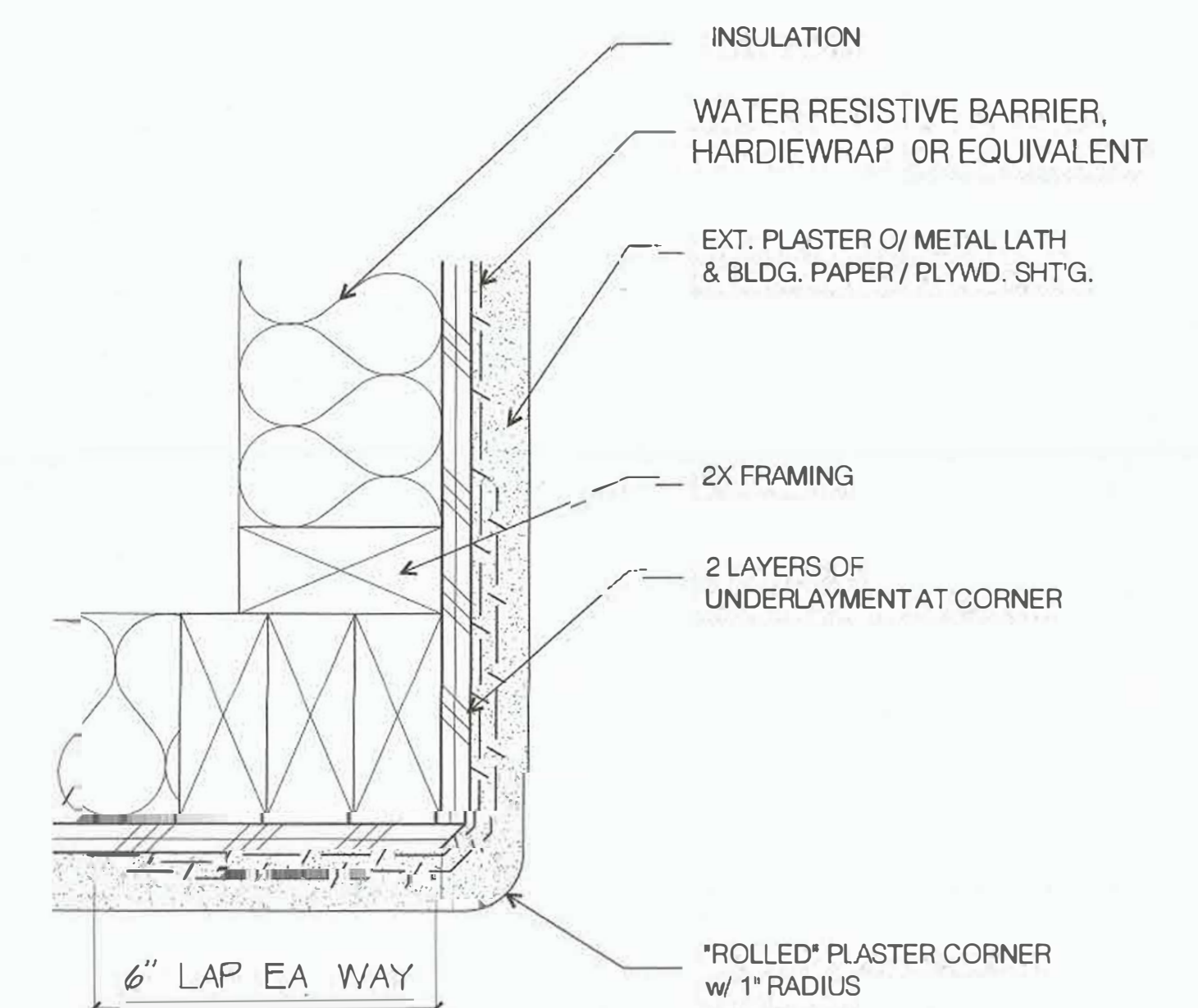
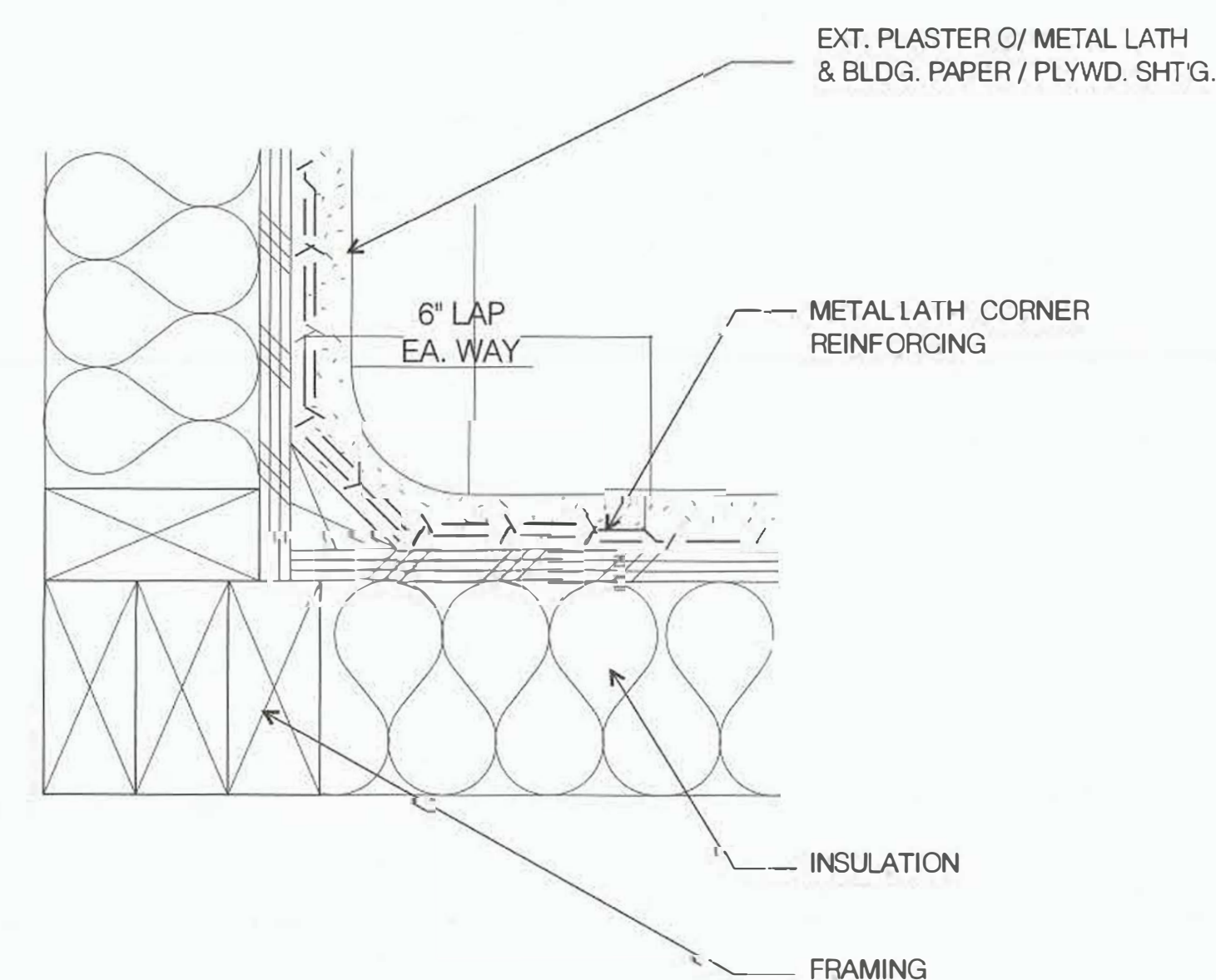
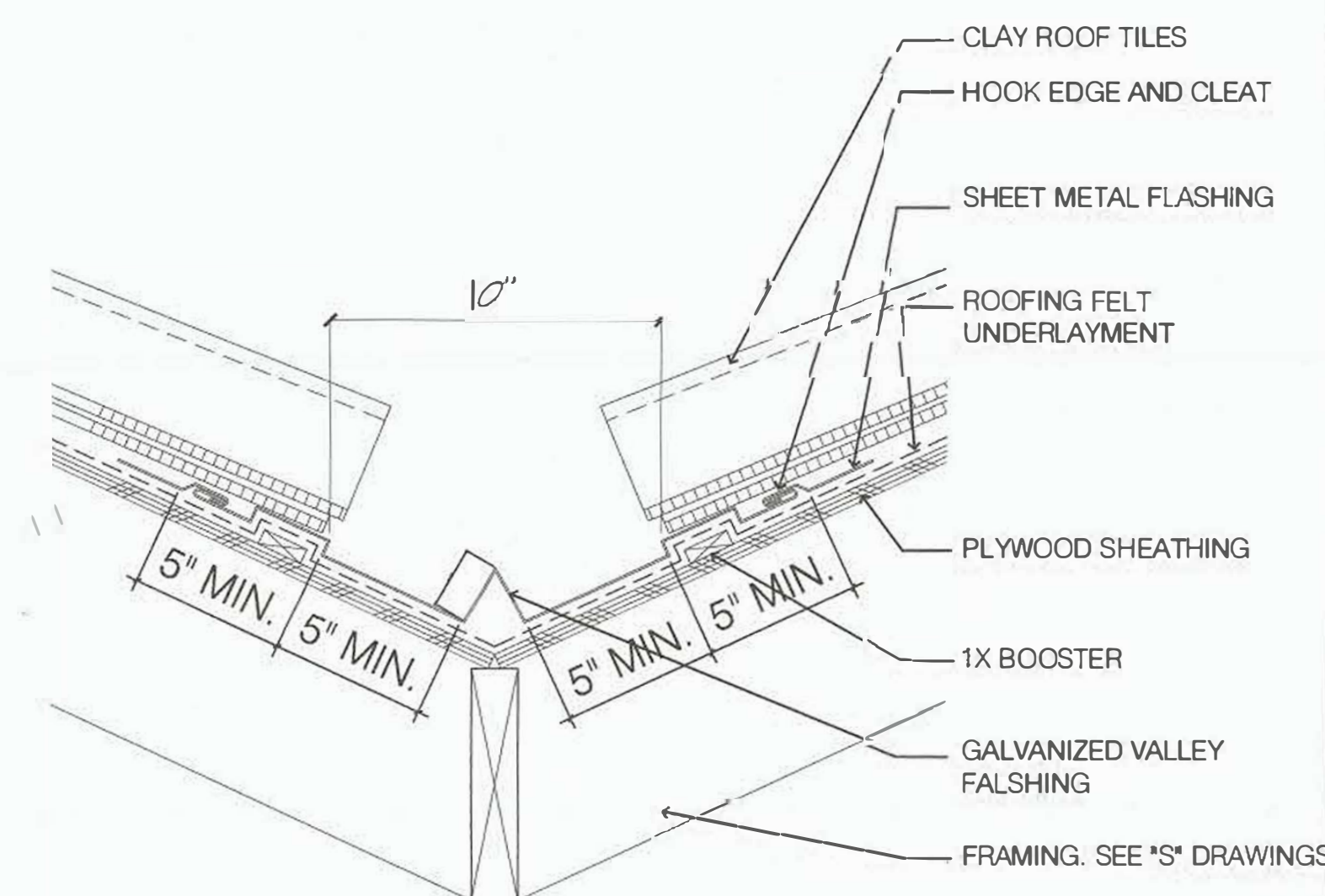
NOT USED

11 NOT USED

8 VENTING AT TILE ROOF

5 ROOF RIDGE

2



NOT USED

10 VALLEY FLASHING

7 INTERIOR CORNER- STUCCO

4 EXT. CORNER- STUCCO

1

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1	11/11/22	PLAN CHECK	1	

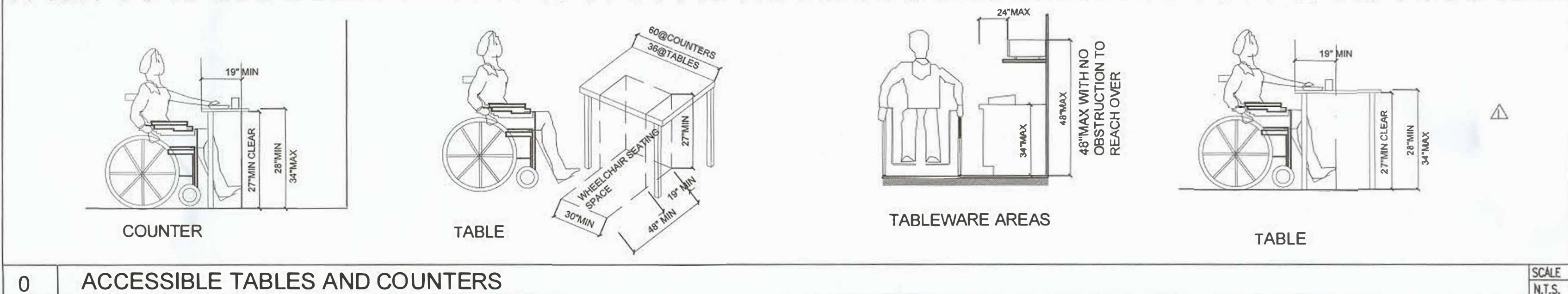


BEHAVIORAL HEALTH CLINIC
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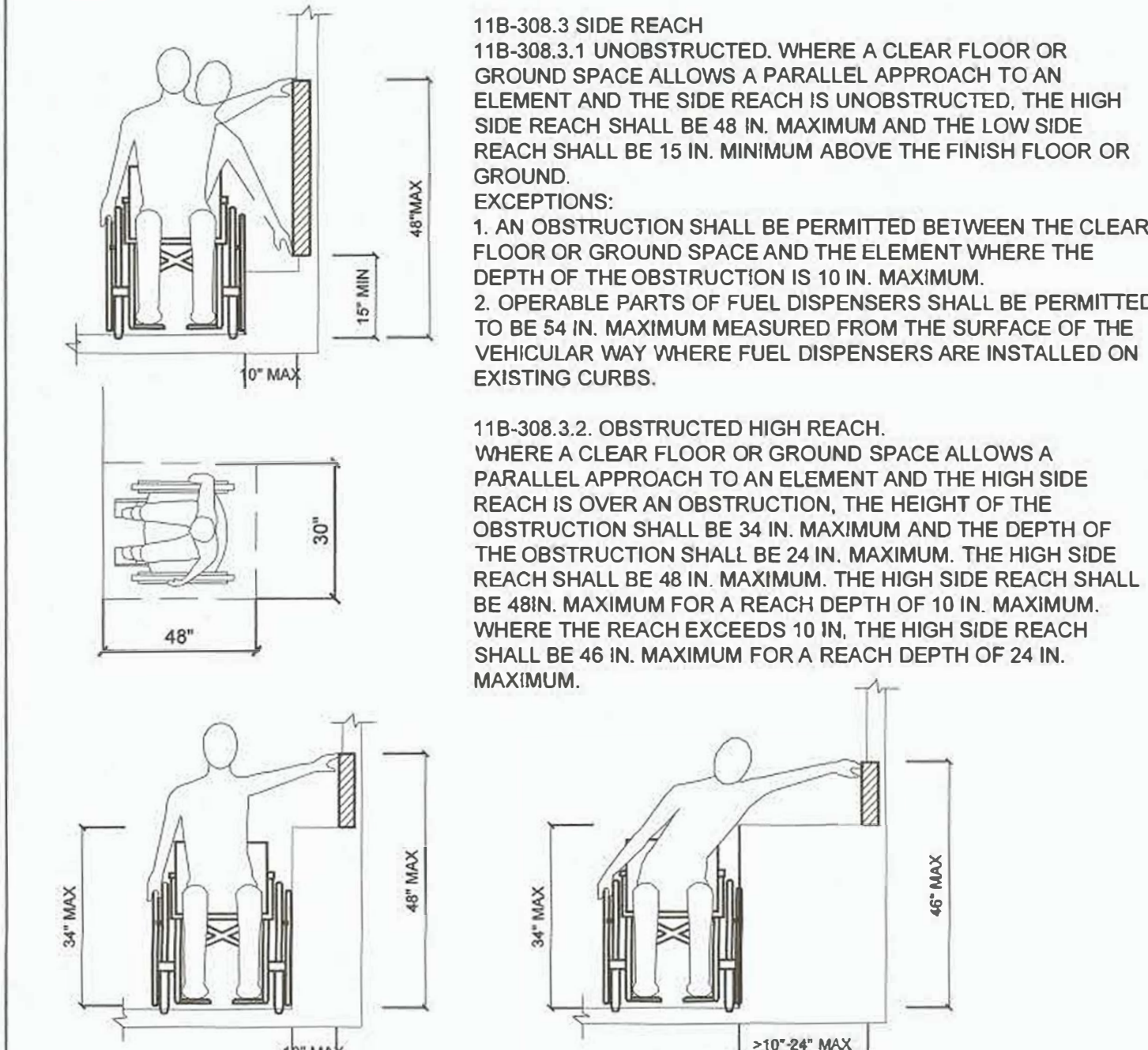
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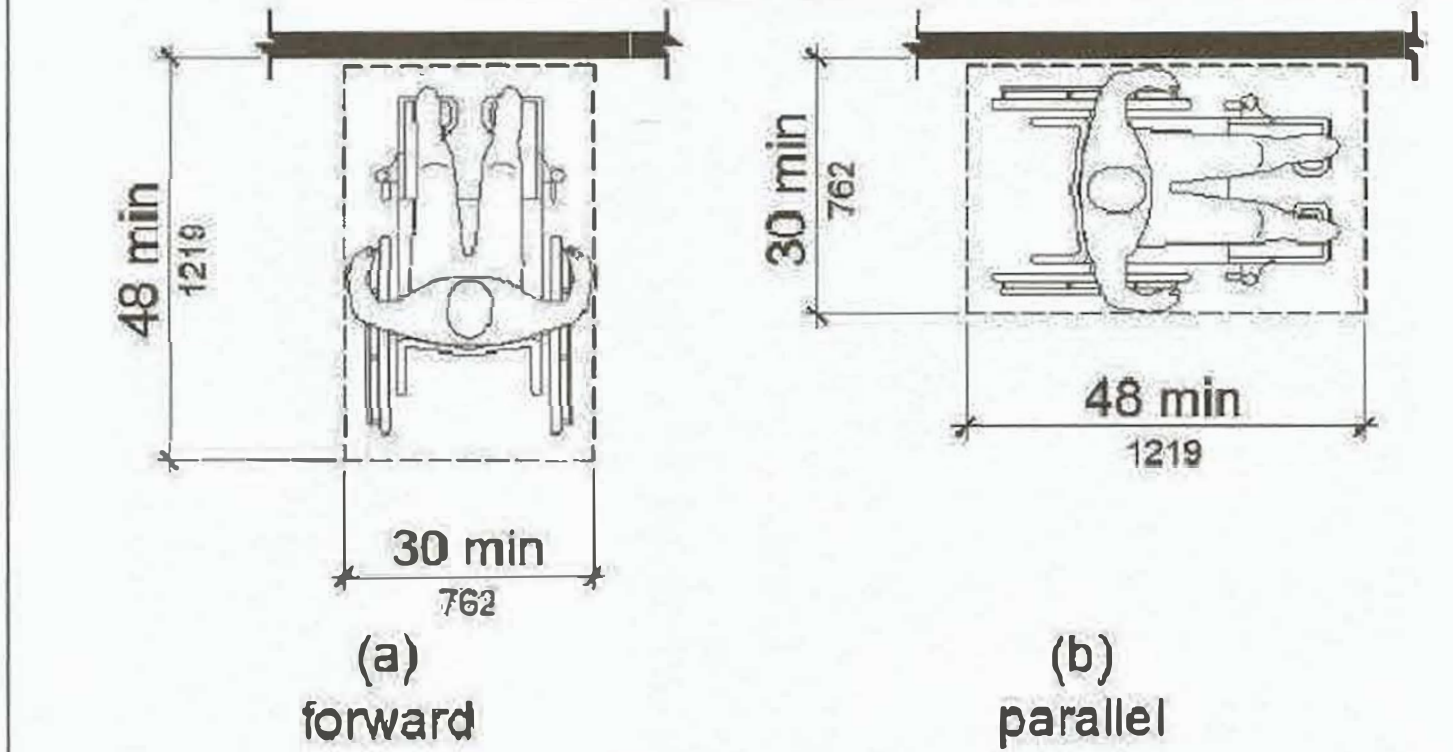
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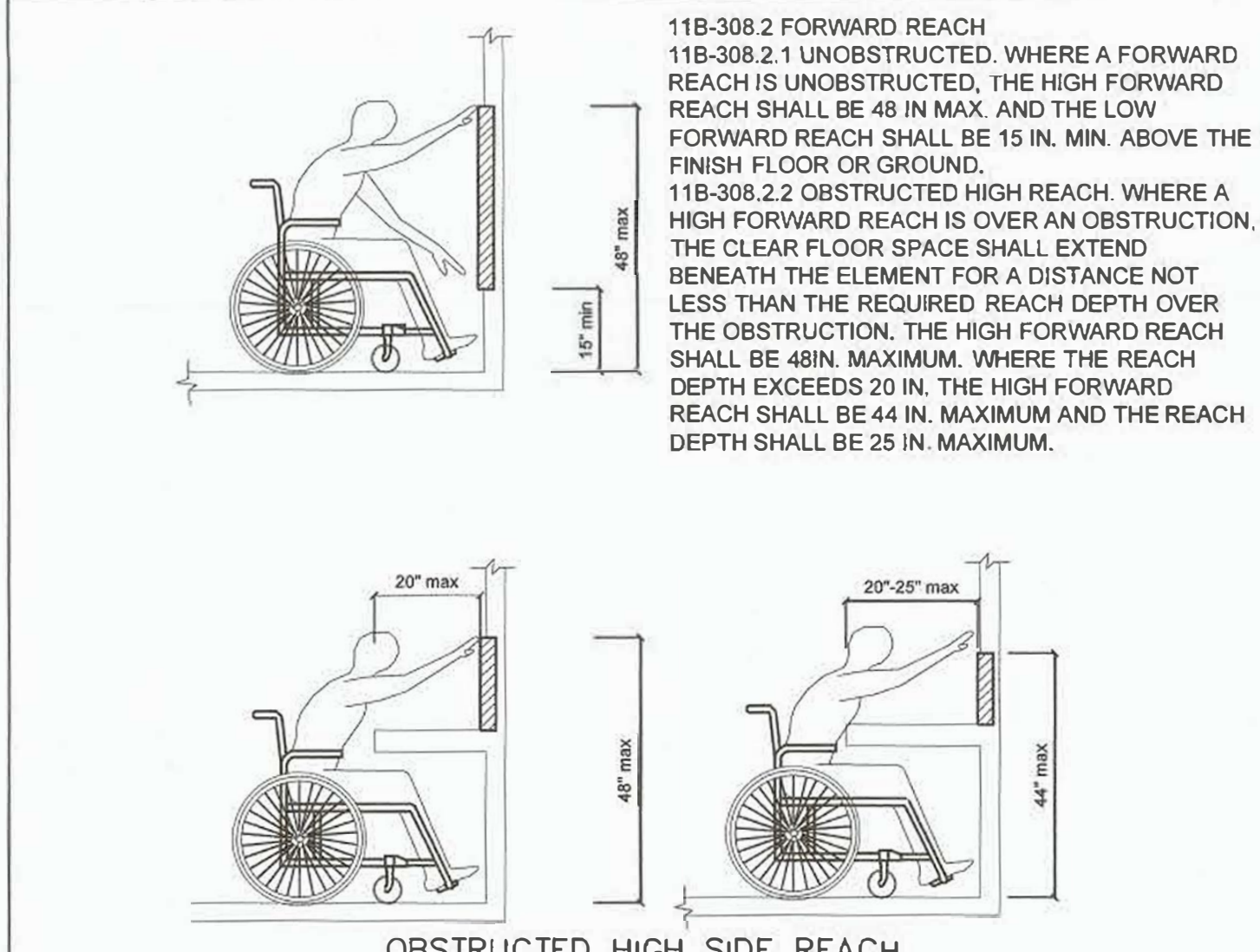
0 ACCESSIBLE TABLES AND COUNTERS



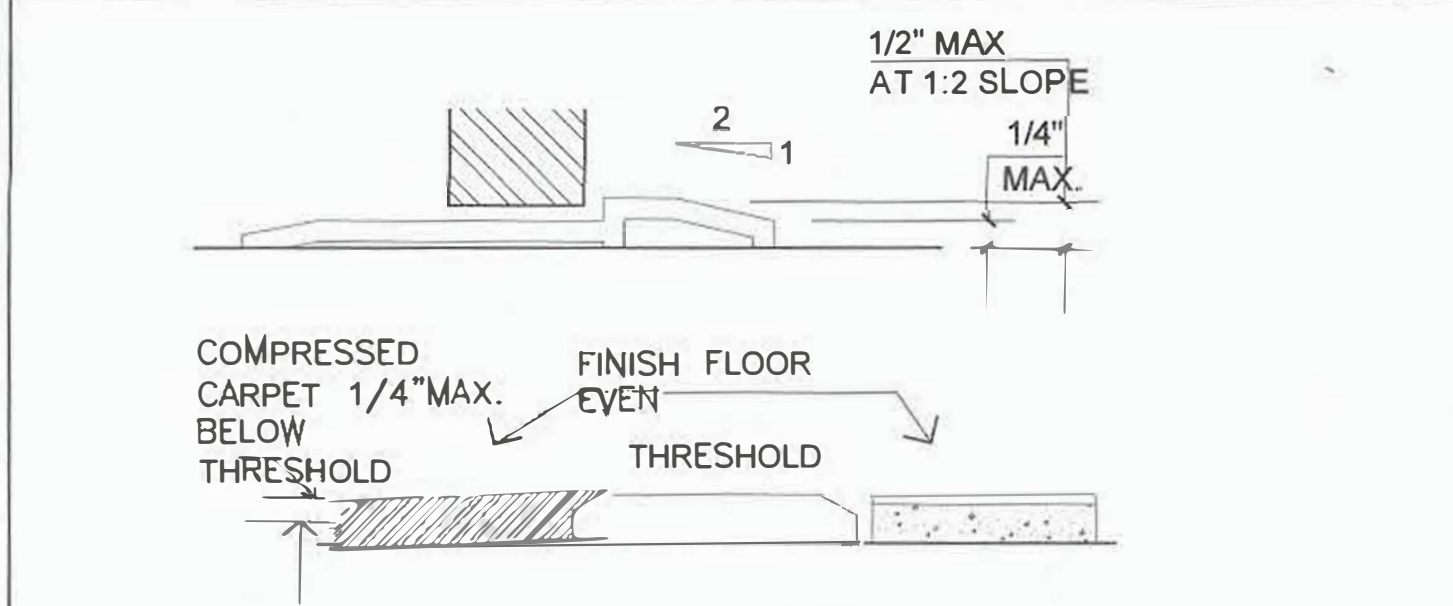
1 UNOBSTRUCTED SIDE REACH



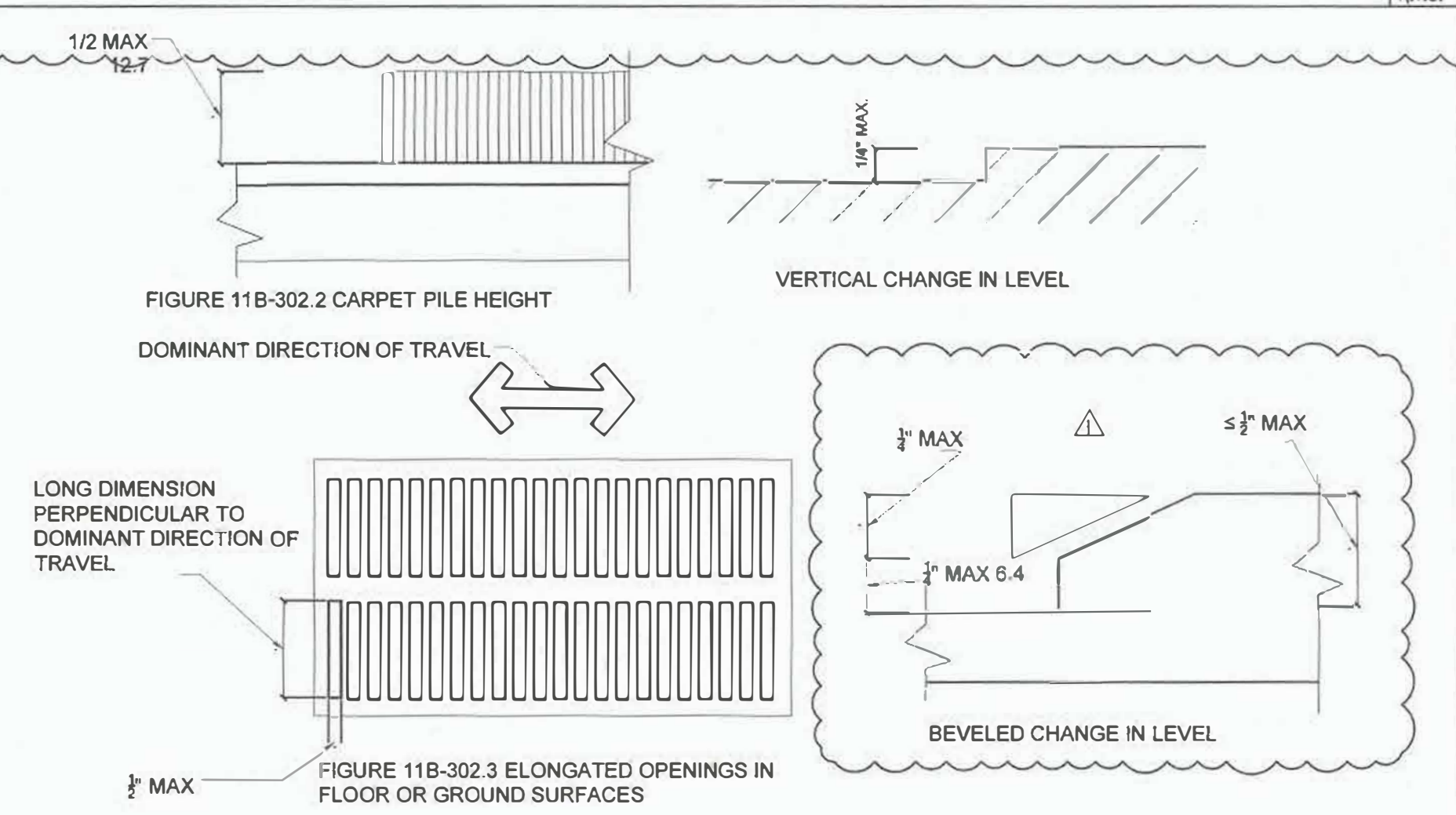
3 ACCESSIBLE APPROACH



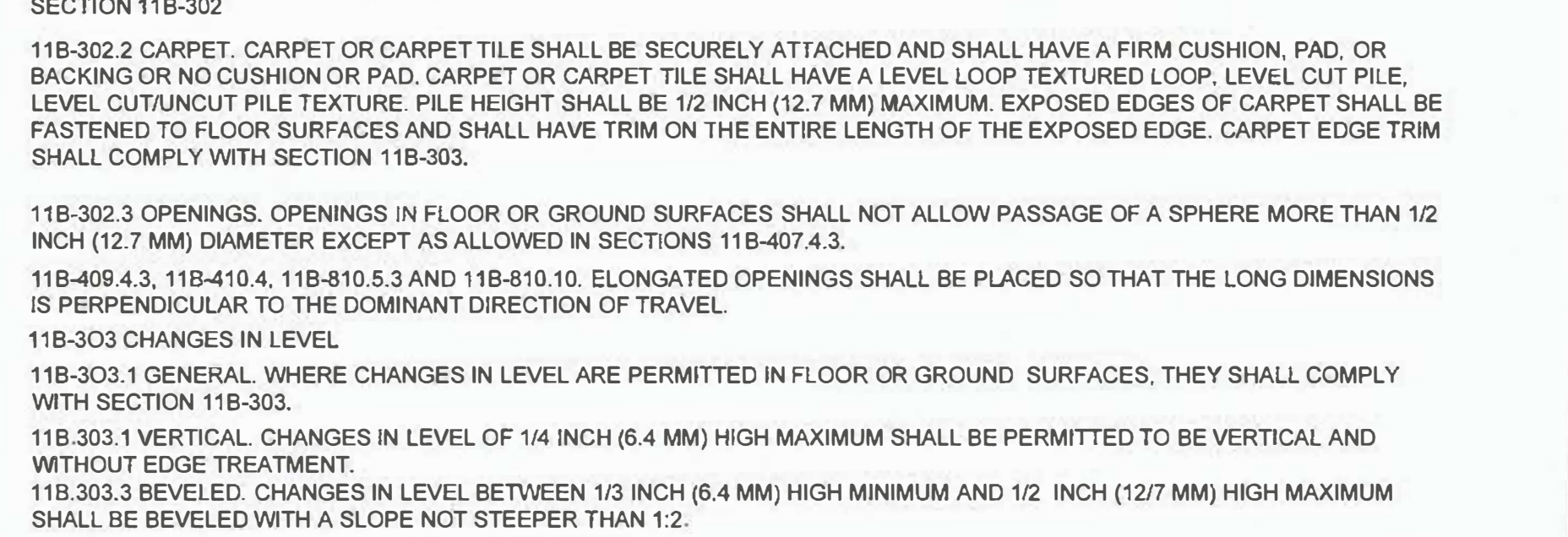
7 UNOBSTRUCTED FORWARD REACH



9 THRESHOLDS



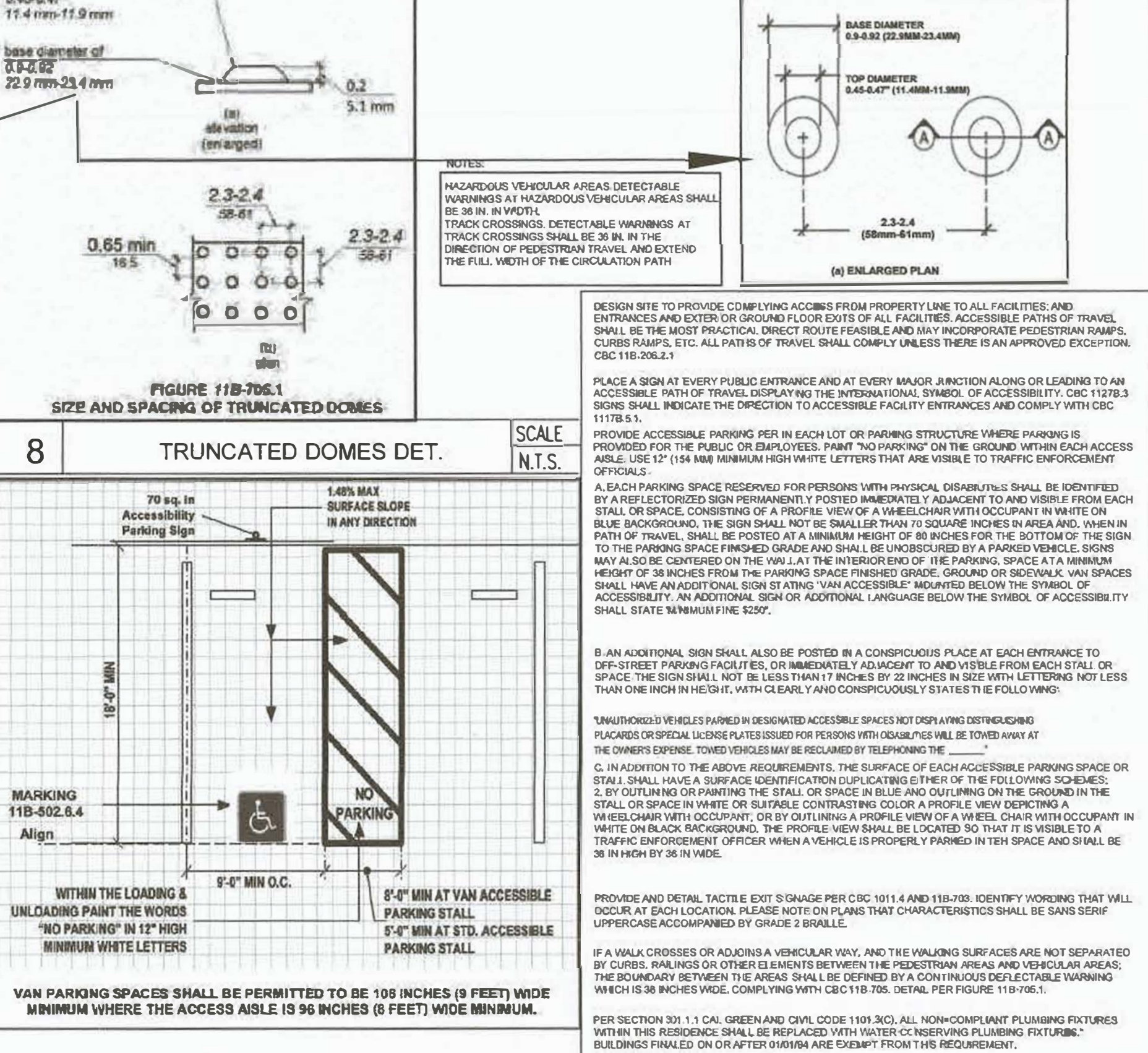
2 FLOOR OR GROUND SURFACES



4 (E) ACCESSIBILITY SIGNS



8 TRUNCATED DOMES DET.



10 ACCESSIBLE PARKING

DETECTABLE WARNINGS AND DETECTABLE DIRECTIONAL TEXTURE

CURB RAMPS SHALL HAVE DETECTABLE WARNINGS THAT EXTEND 36 INCHES IN THE DIRECTION OF TRAVEL FOR THE FULL WIDTH OF THE RAMP RUN EXCLUDING ANY FLARED SIDES.

ON PERPENDICULAR CURB RAMPS, DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 TO 8 INCHES FROM THE LINE AT THE FACE OF THE CURB MARKING THE TRANSITION BETWEEN THE CURB, AND THE GUTTER, STREET OR HIGHWAY.

ON PARALLEL CURB RAMPS, DETECTABLE WARNINGS SHALL BE PLACED ON THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND SIDEWALK.

ISLANDS OR CUT-THROUGH MEDIANS 96 INCHES OR LONGER IN LENGTH IN THE DIRECTION OF PEDESTRIAN TRAVEL SHALL HAVE DETECTABLE WORKINGS THAT ARE 36 INCHES MINIMUM IN DEPTH OR CUT THROUGH, PLACED AT THE EDGES OF THE PEDESTRIAN OR CUT-THROUGH MEDIAN, AND SEPARATED BY 24 INCHES MINIMUM OF WALKING SURFACE WITHOUT DETECTABLE WARNINGS.

WALKS THAT CROSS OR ADJOIN A ROUTE PROVIDED FOR VEHICULAR TRAFFIC, SUCH AS IN A STREET, DRIVEWAY, OR PARKING FACILITY, SHALL BE SEPARATED BY DETECTABLE WARNINGS, CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS.

DETECTABLE WARNINGS PROVIDED TO SEPARATE WALKS THAT CROSS OR ADJOIN A ROUTE PROVIDED FOR VEHICULAR TRAFFIC, SUCH AS IN A STREET, DRIVEWAY, OR PARKING FACILITY, SHALL BE 36 INCHES IN WIDTH AND CONTINUOUS VEHICULAR AREAS.

PROVIDE DETECTABLE WARNING DETAILS SHOWING COMPLIANCE WITH THE FOLLOWING:

A. DETECTABLE WARNING SURFACES SHALL VISUALLY CONTRAST LIGHT-ON-DARK OR DARK-ON-LIGHT WITH ADJACENT WALKING SURFACES OR BE SEPARATED FROM ADJACENT SURFACES BY A 1 INCH WIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE.

B. DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES MUST ENSURE CONSISTENCY AND UNIFORMITY FOR SHAPE, COLOR FASTNESS, CONFORMATION, SOUND-ON-CANE ACOUSTIC QUALITY, RESILIENCE, AND THAT ATTACHMENT WILL NOT DEGRADE SIGNIFICANTLY (<10%) FOR AT LEAST FIVE YEARS.

WALKS THAT CROSS OR ADJOIN A ROUTE PROVIDED FOR VEHICULAR TRAFFIC, SUCH AS IN A STREET, DRIVEWAY, OR PARKING FACILITY, SHALL BE SEPARATED BY DETECTABLE WORKINGS, CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS.

DETECTABLE WARNINGS PROVIDED TO SEPARATE WALKS THAT CROSS OR ADJOIN A ROUTE PROVIDED FOR VEHICULAR TRAFFIC, SUCH AS IN A STREET, DRIVEWAY, OR PARKING FACILITY, SHALL BE 36 INCHES IN WIDTH AND CONTINUOUS AT THE BOUNDARY BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS.

PROVIDE DETECTABLE WARNING IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9 TO 0.92 INCHES, A TOP DIAMETER OF 0.45 TO 0.47 INCHES, AND A HEIGHT OF 0.18 TO 0.22 INCHES

B. TRUNCATED DOMES PLACED IN A GRID PATTERN IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 2.3 TO 2.4 INCHES, AND A MINIMUM BASE-TO-BASE SPACING OF 0.65 INCHES, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID.

C. DETECTABLE WARNING SURFACES SHALL VISUALLY CONTRAST LIGHT-ON-DARK OR DARK-ON-LIGHT WITH ADJACENT WALKING SURFACES OR BE SEPARATED FROM ADJACENT SURFACES BY 1 INCH WIDE BLACK STRIP. MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE.

D. DETECTABLE WARNING SURFACES SHALL DIFFER FROM ADJOINING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT EXCEPT AT CURB RAMPS, ISLANDS OR CUT-THROUGH MEDIANS.

E. DETECTABLE WARNING SURFACES SHALL BE YELLOW CONFORMING TO FS 33538 OF FEDERAL STANDARD 595C EXCEPT AT CURB RAMPS, ISLANDS OR CUT-THROUGH MEDIANS.

F. DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT.

G. DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES INSTALLED AFTER JANUARY 1, 2001, SHALL BE EVALUATED BY AN INDEPENDENT ENTITY, SELECTED BY THE DIVISION OF THE STATE ARCHITECT, TO CONFIRM COMPLIANCE WITH THE PRESCRIPTIVE AND PERFORMANCE STANDARDS OF TILE 24.

H. INDEPENDENT ENTITIES FOR TESTING OF DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE A NOT-FOR-PROFIT PRODUCT SAFETY TESTING AND CERTIFICATION ORGANIZATION, SAFETY TESTING AND CERTIFICATION ORGANIZATION, SAFETY TESTING AND CERTIFICATION ORGANIZATION, DEDICATED TO TESTING FOR PUBLIC SAFETY THAT OPERATES FOR THE TESTING, CERTIFICATION AND QUALITY ASSESSMENT OF PRODUCTS, SYSTEMS AND SERVICES

I. INDEPENDENT ENTITIES FOR TESTING OF DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE RECOGNIZED AS HAVING APPROPRIATE EXPERTISE IN DETERMINING WHETHER PRODUCTS COMPLY WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24

J. DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES MUST ENSURE CONSISTENCY AND UNIFORMITY FOR SHAPE, COLOR CONSISTENCY AND UNIFORMITY FOR SHAPE, COLOR FASTNESS, CONFORMATION, SOUND-ON-CANE ACOUSTIC QUALITY, RESILIENCE, AND THAT ATTACHMENT WILL NOT DEGRADE SIGNIFICANTLY (<10%) FOR AT LEAST FIVE YEARS.

ENTRANCES

ENTRANCES SHALL BE PROVIDED IN ACCORDANCE WITH 11B-206.4 ENTRANCES. ENTRANCE DOORS, DOORWAYS AND GATES SHALL COMPLY WITH 11B-404 DOORS, DOORWAYS, AND GATES AND SHALL BE ON AN ACCESSIBLE ROUTE COMPLYING WITH 11B-402 ACCESSIBLE ROUTES; (SEE EXCEPTIONS).

ALL ENTRANCES AND EXTERIOR GROUND-FLOOR EXITS TO BUILDINGS AND FACILITIES SHALL COMPLY WITH 11B-402 DOORS, DOORWAYS, AND GATES. WHERE DIRECT ACCESS IS PROVIDED FOR PEDESTRIANS FROM A PARKING STRUCTURE TO A BUILDING OR FACILITY ENTRANCE, EACH DIRECT ACCESS TO THE BUILDING OR FACILITY ENTRANCE SHALL COMPLY WITH 11B-404 DOORS, DOORWAYS AND GATES

DIRECT CONNECTIONS TO OTHER FACILITIES SHALL PROVIDE AN ACCESSIBLE ROUTE COMPLYING WITH 11B-404 DOORS, DOORWAYS, AND GATES FROM THE POINT OF CONNECTION TO BOARDING PLATFORMS AND ALL TRANSPORTATION SYSTEM ELEMENTS REQUIRED TO BE ACCESSIBLE. ANY ELEMENTS PROVIDED TO FACILITATE FUTURE DIRECT CONNECTIONS SHALL BE ON AN ACCESSIBLE ROUTE CONNECTION BOARDING PLATFORMS AND ALL TRANSPORTATION SYSTEM ELEMENTS REQUIRED TO BE ACCESSIBLE.

TECHNICAL REQUIREMENTS FOR ACCESSIBLE ROUTES

ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20 (5%). DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS, AND PLATFORM LIFTS.

THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48 (2.08%)

EXCEPT AT TURNS OR PASSING SPACES, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES MINIMUM

THE CLEAR WIDTH OF WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE 44 INCHES MINIMUM.

THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48 INCHES MINIMUM.

DOORS, DOORWAYS AND GATES

DOORS, DOORWAYS, AND GATES PROVIDING USER PASSAGE SHALL BE PROVIDED IN ACCORDANCE WITH 11B-206.5 DOORS, DOORWAYS, AND GATES.

REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.

AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH 11B-404.2.3 CLEAR WIDTH AND 11B-404.2.4 MANEUVERING.

DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES.

MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH 11B-404.2.4 MANEUVERING CLEARANCES. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE.

SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 11B-404.2.4.1.

DOORWAYS LESS THAN 36 INCHES WIDE WITHOUT DOORS OR GATES, SLIDING DOORS, OR FOLDING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 11B-404.2.4.2.

MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES OF THE LATCH SIDE AN INTERIOR DOORWAY, WITHIN 24 INCHES OF THE LATCH SIDE OF AN EXTERIOR DOORWAY. PROJECTS MORE THAN 6 INCHES BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR AND GATE.

THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 11B-302 FLOOR OR GROUND SURFACES AND 11B-303 CHANGES IN LEVEL.

HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 11B-309.4 OPERATION. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND, WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES

THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE SHALL BE AS FOLLOWS

- A. INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM.
- B. SLIDING OR FOLDING DOORS: 5 POUNDS MAXIMUM.
- C. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS
- D. EXTERIOR HINGED DOORS: 5 POUNDS MAXIMUM.

SWINGING DOOR AND GATE SURFACES WITH 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLACE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.

CONTROLS AND OPERATING MECHANISMS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 11B-309.

THE HIGHEST AND LOWEST OPERABLE PARTS OF ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN 48" OF THE FLOOR BUT NOT LOWER THAN 15" FOR FORWARD APPROACH (OR WITHIN 54" BUT NOT LOWER THAN 9" IF SIDE APPROACHED). ELECTRICAL/ COMMUNICATION SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15" ABOVE FLOOR. SEC. 11B-308.

THE TOPS OF TABLES AND COUNTERS SHALL BE 34" MAXIMUM ABOVE THE FLOOR. SECTION 11B-304. SHOW THE SERVICE COUNTER IS AT LEAST 36" LONG & NO MORE THAN 28" TO 34" HIGH. SEC. 11B-304.

THE FLOOR OR LANDING IS TO BE 1/4" LOWER THAN THE DOORWAY THRESHOLD, PER SECTION 11B-404.2.5.

ALL HAND-ACTIVATED DOOR OPENING HARDWARE MEETS THE FOLLOWING REQUIREMENTS. PER SECTION 11B-404.2.7:

- a) LATCHING, OR LOCKING, DOORS IN A PATH OF TRAVEL ARE OPERATED WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
- b) IS TO BE CENTERED 3/4" BUT 5/4" ABOVE FLOOR.

THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS, WITH SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS. SEC. 11B-404.2.9. REVISE NOTE #5 ON DETAIL 5/6A.4, ACCORDINGLY.

THE MIN. STRIKE EDGE DISTANCES ARE PROVIDED AT THE LEVEL AREA ON THE SIDE TO WHICH A GATE SWINGS, SEC. 11B-404.2.4. ON SHT. A2.1, SHOW 18" STRIKE EDGE DISTANCE ON THE PULL SIDE OF GATES #10 & 26. ALSO, DIMENSION 44" LANDING ON THE PUSH SIDE OF GATE #10. FIG. 11B-404.2.4.1(U).

- a) WHERE A DOOR IS LOCATED IN A RECESS OR ALCOVE WHERE THE DISTANCE FROM THE FACE OF THE WALL TO THE FACE OF THE DOOR IS GREATER THAN 8", THE ABOVE CLEARANCES SHALL APPLY. SEC. 11B-404.2.4.3.
- b) 24" AT EXTERIOR CONDITIONS.
- c) 18" AT INTERIOR CONDITIONS.

THIS PAGE AS REFERENCE ONLY. 2019 CBC SUPERSEDES.

ADA CODE GENERAL NOTES
ENTRANCE & EXITS

1. ALL ENTRANCES AND ALL EXTERIOR GROUND FLOOR EXIST DOOR TO BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES.

EVERY REQUIRED EXIT DOORWAY WHICH IS LOCATED WITHIN ACCESSIBLE PATH OF TRAVEL SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3' IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT

AT EACH ACCESIBLE ENTRANCE TO A BUILDING OR FACILITY, AT LEAST ONE DOOR SHALL COMPLY WITH II B-206.4 AND II B 404
EACH DOOR THAT IS AN ELEMENT OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH II B-206

2. HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. HARDWARE SHALL BE CENTERED BETWEEN 30 INCHES (762 MM)AND 44 INCHES (1118MM) ABOVE THE FLOOR.LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, U-SHAPED HANDLES OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.

3. HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE THE FLOOR.

4. WHEN INSTALLED, EXIT DOORS SHALL BE CAPABLE OF OPENING SO THAT THE CLEAR WIDTH OF THE EXIT IS NOT LESS THAN 32".

5. THERE SHALL BE A LEVEL AND CLEAR FLOOR OR LANDING ON EACH SIDE OF A DOOR. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN THE CLOSED POSITION 6.
THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY, BEVELED.

7. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR. WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

8. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBF POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS.
WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS.

SANITARY FACILITIES (GENERAL)

- EXIT PROVIDED PER CODE: CHAPTER 10
- EXIT HARDWARE SHALL BE PER CBC 1008.1.10.
- EXTERIOR HARDWARE PROVIDED FOR FIRE ACCESS.
- SIGN "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED TO BE POSTED OVER MAIN ENTRANCE"

SINGLE ACCOMMODATION SANITARY FACILITIES

- TRASH STORAGE LOCATION. WASTE MATERIAL IN LEAKPROOF AND RODENTPROOF CONTAINER.
- GAS METER TO BE LABELED AND PROTECTION PROVIDED.
- GATES PROVIDED WITH PROPER EXIT HARDWARE IF UTILIZED AS REUIRED EXIT.

2. THERE SHALL BE IN THE ROOM, A CLEAR FLOOR SPACE OF AT LEAST 60" IN DIAMETER.; SEE BATHROOM DET.

SANITARY FACILITY FIXTURES & ACCESSORIES

11B-601 ACCESSIBLE WATER CLOSETS. WATER CLOSETS REQUIRED TO BE ACCESSIBLE SHALL COMPLY WITH THIS SUBSECTION 11B-604.2:

1.- THE CENTER LINE OF THE ACCESSIBLE WATER CLOSET SHALL BE 17"(405MM) MINIMUM AND 18"(457MM) MAXIMUM FROM THE SIDE WALL OR PARTITION.

EXCEPTION: THE CENTERLINE OF ACCESSIBLE EATER CLOSETS LOCATED IN AMBULATORY ACCESSIBLE COMPARTMENTS SHALL BE 17" (430MM) MINIMUM AND 19" (485MM) MAXIMUM FROM THE SIDE WALL OR PARTITION.

1. THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17" AND A MAXIMUM OF 19" MEASURED TO THE TOP OF A MAXIMUM 2" HIGH TOILET SEAT, EXCEPT THAT 3" SEATS SHALL BE PERMITTED ONLY IN ALTERATIONS WHERE THE EXISTING FIXTURE IS LESS THAN 15" HIGH
2. A CLEAR FLOOR SPACE 30" BY 48" SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND A MAX OF 19 IN. INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY. A DOOR SWING SHALL NOT ENCROACH INTO THIS CLEAR SPACE.
3. LAVATORIES, WHEN LOCATED ADJACENT TO A SIDE WALL OR PARTITION SHALL, BE A MINIMUM DISTANCE OF 18" TO THE CENTER LINE OF THE FIXTURE.
4. LAVATORIES THAT ARE DESIGNATED TO BE ACCESSIBLE SHALL BE A MIN 17" IN HORIZONTAL DEPTH AND MOUNTED WITH THE RIM OR COUNTER EDGE NO HIGHER THAN 34" ABOVE THE FINISHED FLOOR AND WITH A VERTICAL CLEARANCE MEASURED FROM THE

BOTTOM OF THE APRON OR OUTSIDE BOTTOM EDGE OF THE LAVATORY OF 29", REDUCING TO 27" AT A POINT LOCATED 8" BACK FROM THE FRONT EDGE. IN ADDITION, A MIN. 9"HIGH TOE CLEARANCE MUST BE PROVIDED EXTENDING BACK TOWARD THE WALL TO A DISTANCE NO MORE THAN 6" FROM THE BACK WALL. THE TOE CLEARANCE SPACE MUST BE FREE OF EQUIPMENT OR OBSTRUCTIONS.
HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR FLOOR SPACE 30"x48" IN FRONT OF THE URINAL TO ALLOW FORWARD APPROACH.
CONTROLS FOR WATER CLOSET FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS. AUTOMATIC SPRING TO LIFTED POSITION SEATS ARE NOT ALLOWED.

WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISM CONTROLS, SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR.

FORCE REQUIRED TO ACTIVATE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISM CONTROLS, SHALL BE NO GREATER THAN 5LBF. ELECTRONIC OR AUTOMATIC FLUSHING CONTROLS ARE ACCEPTABLE AND PREFERABLE

SELF CLOSING FAUCET CONTROL VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURACE NO HIGHER THAN 40" FROM THE FLOOR.

WHERE TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, DISPENSERS OR OTHER EQUIPMENT AND CONTROLS ARE POVIDED, SHOW AT LEAST ONE OF EACH TYPE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE, WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40 IN. FROM TEH FINISHED FLOOR

TOILET TISSUE DISPENSERS SHALL BE LOCATED ON THE WALL WITHIN 7" TO 9" OF THE FRONT EDGE OF THE TOILET SEAT,TO THE CENTER OF DISPENSER, MOUNTED BELOW THE GRAB BAR AT A MIN. HEIGHT OF 19", AND 36" MAX. TO THE FAR EDGE FROM THE REAR WALL. DISPENSERS THAT CONTROL DELIVERY OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.

TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER APPROVD MATERIAL WHICH EXTENDS UPWARD ONTO THE WALLS AT LEST 5". WALLS WITHIN WATER CLOSET COMPARTMENTS AND WALLS WITHIN 24" OF THE FRONT AND SIDES OF URINALS SHALL BE SIMILARLY FINISHED TO A HEIGHT OF 48" AND, EXCEPT FOR STRUCT URAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE A TYPE WHICH IS NOT ADVERSELY AFFECTED BY MOISTURE.

FLOORS AND WALL BASE FINISH MATERIALS. IN OTHER THAN DWELLING UNITS, TOILET, BATHING AND SHOWER ROOM FLOOR FINISH MATERIALS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE. THE INTERSECTIONS OF SUCH FLOORS WITH WALLS SHALL HAVE A SMOOTH, HARD, NONABSORBENT VERTICAL BASE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 4 INCHES (102 MM).

WALLS AND PARTITIONS.WALLS AND PARTITIONS WITHIN 2 FEET (610 MM) OF URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF 4 FEET (1219 MM) ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE.
EXCEPTIONS:
1. DWELLING UNITS AND SLEEPING UNITS.
2. TOILET ROOMS THAT ARE NOT ACCESSIBLE TO THE PUBLIC AND WHICH HAVE NOT MORE THAN ONE WATER CLOSET.

ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES, PROVIDED ON OR WITHIN WALLS, SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.

SIDE GRAB BARS SHALL BE 42"LONG MIN. LOCATED 12"MAX FROM THE REAR WALL AND EXTEND 54" MIN FROM THE REAR WALL. THE FRONT END SHALL BE POSITIONED 24" MIN IN FRONT OF THE WATER CLOSET AND SHALL BE SECURELY ATTACHED AND CENTERED 33" ABOVE AND PARALLEL TO THE FLOOR.

THE REAR GRAB BARS SHALL BE 36" LONG MIN. AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12" MIN. ON ONE SIDE AND 24" MIN ON THE OTHER SIDE. THE REAR GRAB BAR SHALL BE SECURELY ATTACHED AND CENTERED 33" ABOVE AND PARALLEL TO THE FLOOR, EXCEPT THAT WHERE A TANK TYPE TOILET IS USED WHICH OBSTRUCTS PLACEMENT AT 33", THE REAR BAR (ONLY) MAY BE AS HIGH AS 36", WITH 1-1/2" MIN BETWEEN THE BAR AND TOP OF TANK.

THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS (ADA 4.26):

- A. BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAX. BENDING MOMENT FROM THE APPLICATION OF A 250 LB PINT LOAD SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.
- B. SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF A 250 LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT, AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS

C. SHEAR FORCE INDUCED IN FASTENER OR MOUNTING DEVICES FROM THE APPLICATION OF A 250 LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER HAS THE SMALLER ALLOWABLE LOAD.

D. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF A 250 LB POINT LOAD, PLUS THE MAX. MOMENT FROM THE APPLICATION OF A 250 LB POINT LOAD, SHALL BE LESS THANT THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND SUPPORTING STRUCTURE.

E. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS

THE GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MIN. RADIUS OF 1/8".

TOILET AND BATHING ROOM CLEARANCES

WHERE TOILET FACILITIES AND BATHING FACILITIES ARE PROVIDED, THEY SHALL COMPLY WITH 11B-213 TOILET FACILITIES AND BATHING FACILITIES. WHERE TOILET FACILITIES AND BATHING FACILITIES ARE PROVIDED IN FACILITIES PERMITTED BY 11B206.2.3 MULTI-STORY BUILDING AND FACILITIES EXCEPTIONS 1 AND 2 NOT TO CONNECT STORIES BY AN ACCESSIBLE ROUTE. TOILET CONNECT STORIES BY AN ACCESSIBLE ROUTE, TOILET FACILITIES SHALL BE PROVIDED ON A STORY CONNECTED BY AN ACCESIBLE ROUTE TO AN ACCESSIBLE ENTRANCE.

WHERE SEPARATE TOILET FACILITIES ARE PROVIDED FOR THE EXCLUSIVE USE OF SEPARATE USER GROUPS, THE TOILET FACILITIES SERVING EACH USER GROUP SHALL COMPLY WITH 11B-603 TOILET AND BATHING ROOMS.

WHERE TOILET ROOMS ARE PROVIDED, EAHC TOILET ROOM SHALL COMPLY WITH 11B-603 TOILET AND BATHING ROOMS. WHERE BATHING ROOMS ARE PROVIDED, EACH BATHING ROOM SHALL COMPLY WITH 11B-603 TOILET AND BATHING ROOMS.

UNISEX TOILET ROOMS SHALL CONTAIN NOT MORE THAN ONE LAVATORY, AND NOT MORE THAN TWO WATER CLOSETS WITHOUT URINALS OR ONE WATER CLOSET AND ONE URINAL. UNISEX BATHING ROOMS SHALL CONTAIN ONE SHOWER OR ONE SHOWER AND ONE BATHTUB, ONE LAVATORY AND ONE WATER CLOSET, DOORS TO UNISEX TOILET ROOMS AND UNISEX BATHING ROOMS SHALL HAVE PRIVACY LATCHES.

DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. OTHER THAN THE DOOR TO THE ACCESSIBLE WATER CLOSET COMPARTMENT, A DOOR IN ANY POSITION, MAY ENCROACH INTO THE TURNING SPACE BY 12 INCHES MAXIMUM.

AT SINGLE USER TOILET OR BATHING ROOMS, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE ONLY IF A 30 INCH BY 48 INCH MINIMUM CLEAR FLOOR SPACE IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING.

MIRRORS LOCATED ABOVE THE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITHIN THE BOTTOM EDGE OF THE REFLECTION SURFACE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR. MEDICINE CABINETS SHALL BE LOCATED WITH A USABLE SHELF NO HIGHER THAN 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR

COAT HOOKS SHALL BE LOCATED WITH ONE OF THE REACH RANGERS SPECIFIED IN SECTION 11B-308. SHELVES SHALL BE LOCATED 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR. MEDICINE CABINETS SHALL BE LOCATED WITH A USABLE SHELF NO HIGHER THAN 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

GENERAL SITE AND BUILDING ELEMENTS
PARKING SPACES

WHERE PARKING SPACES ARE PROVIDED, ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN NUMBER AND KIND REQUIRED PER SECTION 11B-208 PARKING SPACES.

PROVIDE () ACCESSIBLE PARKING SPACES AS REQUIRED BY TABLE 11B-208.2

PROVIDE ACCESSIBLE SPACES FOR EACH PARKING FACILITY (PARKING LOTS AND PARKING STRUCTURES). THE NUMBER OF PARKING SPACES REQUIRED TO BE ACCESSIBLE IS TO BE CALCULATE SEPARATELY FOR EACH PARKING SPACES REQUIRED TO BE ACCESSIBLE IS TO BE CALCULATED SEPARATELY FOR EACH PARKING FACILITY; THE REQUIRED NUMBER IS NOT BASED ON THE TOTAL NUMBER OF PARKING SPACES PROVIDED IN ALL OF THE PARKING FACILITIES PROVIDED ON SITE.

ONE IN EVERY SIX OR FRACTION OF SIX PARKING SPACES REQUIRED BY SECTION 11B-208.2 MINIMUM NUMBER, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 96 INCHES WIDE MINIMUM PLACED ON THE SIDE OPPOSITE THE DRIVER'S SIDE WHEN THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE AND SHALL BE DESIGNATED "VAN ACCESSIBLE". ALL SUCH SPACES MAY BE GROUPED ON ONE LEVEL OF A PARKING STRUCTURE.

ACCESSIBLE PARKING SPACES COMPLYING WITH SECTION 11B-502. PARKING SPACES SERVING A PARTICULAR BUILDING OR FACILITY SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING AN ACCESSIBLE ENTRANCE (AS NEAR AS PRACTICAL TO AN ACCESSIBLE ENTRANCE).

IN BUILDINGS WITH MULTIPLE ACCESSIBLE ENTRANCES WITH ADJACENT PARKING, ACCESSIBLE PARKING SPACES COMPLYING WITH SECTION 11B-502 PARKING SPACES SHALL BE DISPERSED AND LOCATED CLOSEST TO THE ACCESSIBLE ENTRANCES.

IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING OR FACILITY, ACCESSIBLE PARKING SPACES COMPLYING WITH SECTION 11B-502 PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY.

DIMENSION MINIMUM 18 FOOT LONG CAR AND VAN ACCESSIBLE PARKING SPACE(S) AND ACCESS AISLE(S).
DIMENSION MINIMUM 9 FOOT WIDTH AT ACCESSIBLE CAR PARKING SPACE.

DIMENSION MINIMUM 12 FOOT WIDE ACCESSIBLE VAN PARKING SPACE WITH MINIMUM 5 FOOT WIDE ACCESS AISLE. VAN PARKING SPACES SHALL BE PERMITTED TO BE MINIMUM 9 FEET WIDE WHERE ACCESS AISLE IS 8 FOOT WIDE MINIMUM.

CAR AND VAN STALL ACCESS AISLE SHALL BE 5 FOOT WIDE MINIMUM AND SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS AISLE.

ACCESS AISLES SHALL BE MARKED WITH A BLUE PAINTED BORDERLINE AROUND THEIR PERIMETER. THE AREA WITHIN THE BLUE BORDERLINES SHALL BE MARKED WITH HATCHED LINES A MAXIMUM OF 36 INCHES ON CENTER IN A COLOR CONTRASTING WITH THAT OF THE AISLE SURFACE. PREFERABLY PAINTED ON THE SURFACE, PREFERABLY BLUE OR WHITE. THE WORDS "NO PARKING" SHALL BE PAINTED ON THE SURFACE WITHIN EACH ACCESS AISLE IN WHERE LETTERS A MINIMUM OF 12 INCHES IN HEIGHT AND LOCATED TO BE VISIBLE FROM THE ADJACENT VEHICULAR WAY. ACCESS AISLE MARKINGS MAY EXTEND BEYOND THE MINIMUM REQUIRED LENGTH.

ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR VAN PARKING SPACES WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES

CLEARLY SHOW MINIMUM VERTICAL CREDENCE OF 8 FEET 2 INCHES AT ACCESSIBLE PARKING SPACES AND ALONG AT LEAST ONE VEHICLE ACCESS ROUTE TO SUCH SPACES FROM SITE ENTRANCES AND EXITS

PARKING SPACE IDENTIFICATION SIGN SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 11B-703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY.

SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN ADDITIONAL LANGUAGE OR ADDITIONAL SIGN WITH THE DESIGNATION "VAN ACCESSIBLE." SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.

PARKING IDENTIFICATION SIGNS SHALL BE REFECTORIES WITH A MINIMUM AREA OF 70 SQUARE INCHES.

ADDITIONAL LANGUAGE OR AN ADDITIONAL SIGN BELOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL STATE "MINIMUM FINE \$250."

A PARKING SPACE IDENTIFICATION SIGN SHALL BE VISIBLE FROM EACH PARKING SPACE. SIGNS SHALL BE PERMANENTLY POSTED EITHER IMMEDIATELY ADJACENT TO THE PARKING SPACE OR WITHIN THE PROJECTED PARKING SPACE WIDTH AT THE HEAD END OF THE PARKING SPACE. SIGNS MAY ALSO BE PERMITTED POSTED ON A WALL AT THE INTERIOR END OF THE PARKING SPACE.

EACH ACCESSIBLE CAR AND VAN SPACE SHALL HAVE SURFACE IDENTIFICATION COMPLYING WITH EITHER OF THE FOLLOWING SCHEMES.

A.THE PARKING SPACE SHALL BE MARKED WITH AN INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 11B-703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY IN WHITE ON A BLUE BACKGROUND A MINIMUM 36 INCHES WIDE BY 36 INCHES HIGH. THE CENTERLINE OF THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE A MAXIMUM OF 8 INCHES FROM THE CENTERLINE OF THE PARKING SPACE, ITS SIDES PARALLEL TO THE LENGTH OF THE PARKING SPACE AND ITS LOWER CORNER AT, OR LOWER SIDE ALIGNED WITH, THE END OF THE PARKING SPACE LENGTH

B. THE PARKING SPACE SHALL BE OUTLINED OR PAINTED BLUE AND SHALL BE MARKED WITH AN INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 11B-703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY A MINIMUM 36 INCHES WIDE BY 36 INCHES HIGH IN WHITE OR A SUITABLE CONTRASTING COLORS. THE CENTERLINE OF THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE A MAXIMUM OF 6 INCHES FROM THE CENTERLINE OF THE PARKING SPACE, ITS SIDES PARALLEL TO THE LENGTH OF THIS LOWER SIDE ALIGNED WITH, THE END OF THE PARKING SPACE.

AN ADDITIONAL SIGN SHALL BE POSTED EITHER, 1) IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO AN OFF-STREET PARKING FACILITY OR 2) IMMEDIATELY ADJACENT TO ON-SITE ACCESSIBLE PARKING AND VISIPLE FROM EACH PARKING SPACE.

C. THE ADDITIONAL SIGH SHALL NOT BE LESS THAN 17 INCHES WIDE BY 22 INCHES HIGH.

D. THE ADDITIONAL SIGN SHALL CLEARLY STATE IN LETTERS WITH A MINIMUM HEIGHT OF 1 INCH THE FOLLOWING:

"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENCE PLATES ISSUED FOR PERSONS WITH DISABILITIES WITH THE TOWED AWAY AT THE OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT _____ OR BY TELEPHONING _____"

BLANK SPACES SHALL BE FILLED IN WITH APPROPRIATE INFORMATION AS A PERMANENT PART OF THE SIGN
(TOWING COMPANY'S NAME AND TELEPHONE NOS. "MUST BE PROVIDED ON SIGN)

RELATIONSHIP TO ACCESSIBLE ROUTES

PARKING SPACES AND ACCESS AISLES SHALL BE DESIGNED SO THAT PERSONS USING THEM ARE NOT REQUIRED TO TRAVEL BEHIND PARKING SPACES OTHER THAN THE PASS BEHIND THE PARKING SPACE IN WHICH THEY PARKED.

A CURB OR WHEEL STOP SHALL BE PROVIDED IF REQUIRED TO REVENT ENCROACHMENT OF VEHICLES OVER THE REQUIRED CLEAR WIDTH OF ADJACENT ACCESSIBLE ROUTES.

WHERE TOWEL OR SANITARY NAPKIN DISPENSERS, WASTE RECEPTACLES, OR OTHER ACCESSORIES ARE PROVIDED IN TOILET FACILITIES, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE. ALL OPERABLE PARTS, INCLUDING COIN SLOTS, SHALL BE 40 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

APPLICATION AND ADMINISTRATION

WHEN ALTERATIONS OR ADDITIONS ARE MADE TO EXISTING BUILDINGS OF FACILITIES, AM ACCESSIBLE PATH OF TRAVEL TO THE SPECIFIC AREA OF ALTERATION OR ADDITION SHALL BE PROVIDED UNLESS OTHERWISE EXEMPT

PRIMARY ACCESSIBLE PATH OF TRAVEL SHALL INCLUDE A PRIMARY ENTRANCE TO THE BUILDING OR FACILITY; TOILET AND BATHING FACILITIES SERVING THE AREA; DRINKING FOUNTAINS SERVING THE AREA; PUBLIC TELEPHONES SERVING THE AREA, AND SIGNS.

WHEN THE ADJUSTED CONSTRUCTION COST IS LESS THAN OR EQUAL TO THE CRRENT VALUATION THRESHOLD, THE COST OF COMPLANCE WITH THE PRIMARY ACCESSIBLE PATH OF TRAVEL REQUIREMENTS IS LIMITED TO 20 PERCENT OF THE ADJUSTED CONSTRUCTION COST OF ALTERATIONS; STRUCTURAL REPAIRS OR ADDITIONS PRESENTLY PLANNED AND THOSE DURING THE PRECEDING THREE-YEAR PERIOD.

ADJUSTED CONSTRUCTION COST OF ALTERATIONS, STRUCTURAL REPAIRS OR ADDITIONS DOES NOT INCLUDE THE COST OF ALTERATIONS TO PATH OF TRAVEL ELEMENTS.

IN CHOOSING WHICH ACCESSIBLE ELEMENTS TO PROVIDE PRIORITY SHOULD BE GIVEN TO THOSE ELEMENTS THAT WILL PROVIDE THE GREATEST ACCESS IN THE FOLLOWING ORDER; (1) AN ACCESSIBLE ENTRANCE; (2) AN ACCESSIBLE ROUTE TO THE ALTERED AREA; (3) AT LEAST ONE ACCESSIBLE RESTROOM FOR EACH SEX;(4) ACCESSIBLE TELEPHONES;(5) ACCESSIBLE DRINKING FOUNDATIONS; AND (6) WHEN POSSIBLE, ADDITIONAL ACCESSIBLE ELEMENTS SUCH AS PARKING, STORAGE AND ALARMS

NOTE ON PLAN: PUBLIC ACCOMMODATIONS SHALL MAINTAIN IN OPERABLE WORKING CONDITION THOSE FEATURES OF FACILITIES AND EQUIPMENT THAT ARE REQUIRED TO BE ACCESSIBLE TO AND USEABLE BY PERSONS WITH DISABILITIES. ISOLATED OR TEMPORARY INTERRUPTIONS IN SERVICE OR ACCESSIBILITY DUE TO MAINTENANCE OR REPAIRS SHALL BE PERMITTED.

NOTE ON PLAN: PUBLIC ACCOMMODATIONS SHALL MAINTAIN IN OPERABLE WORKING CONDITION THOSE FEATURES OF FACILITIES AND EQUIPMENT THAT ARE REQUIRED TO BE ACCESSIBLE TO AND USEABLE BY PERSONS WITH DISABILITIES. ISOLATED OR TEMPORARY INTERRUPTIONS IN SERVICE OR ACCESSIBILITY DUE TO MAINTENANCE OR REPAIRS SHALL BE PERMITTED.

SIGNS

INTERIOR AND EXTERIOR SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL COMPLY WITH 11B-703.1 GENERAL, 11B-703.5 VISUAL CHARACTERS. WHERE PICTOGRAMS ARE PROVIDED AS DESIGNATIONS OF THE PERMANENT INTERIOR ROOMS AND SPACES, THE PICTOGRAMS SHALL COMPLY WITH 11B-703.6 PIRCOGRAMS AND SHALL HAVE TEXT DESCRIPTORS COMPLYING WITH 11B-703.2 AND 11B-703.5.

SIGNS THAT PROVIDE DIRECTION TO OR INFORMATION ABOUT INTERIOR AND EXTERIOR SPACES AND FACILITIES OF THE SITE SHALL COMPLY WITH 11B-703.5.

THIS PAGE AS REFERENCE ONLY. 2019 CBC SUPERSEDES.

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.

REVISIONS	
NO.	DESCRIPTION
1	11/18/22 PLAN CHECK 1



BEHAVIORAL HEALTH CLINIC
REMODEL & RE-ROOFING
120 N. 8th. STREET, EL CENTRO, CA 92243

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A.D.A. GENERAL NOTES

DATE 08/01/22
SCALE SEE PLAN
DRAWN B.M./L.W.
JOB# YP22005
SHEET#
AD.5

DATE	08/01/22
SCALE	SEE PLAN
DRAWN	B.M./L.W.
JOB#	YP22005
SHEET#	

AD.5

STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER

Description of Work: _____

Owner: _____ Architect: _____ Engineer: _____ SY LEE

Firm or Individual to be responsible for the Structural Observation:
Name: LEE & LEE STRUCTURAL ENGINEERING INC. Phone: (213-351-0034) Calif. Registration: S-3821

Firm or Individual to be responsible for the Structural Observation:
Name: LEE & LEE STRUCTURAL ENGINEERING INC. Phone: (213-351-0034) Calif. Registration: S-3821

DECLARATION BY OWNER

I, the Owner of the project, declare that the above listed firm or individual is hired by me to be the Structural Observer.

DECLARATION BY OWNER

I, the Owner of the project, declare that the above listed firm or individual is hired by me to be the Structural Observer.

Signature	License No.	Date
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1. ALL LUMBER TO BE STRESS GRADE, DOUGLAS FIR LARCH(DF), AS SHOWN BELOW PLANS PER NDS 2018 UNLESS OTHER WISE INDICATE ON

A. JOISTS AND RAFTER	2 DF #2 GRADE
B. 2"-4" BEAM	2 DF #1 GRADE
	2 DF #2 GRADE FOR HEADER
C. 5"x5" LARGER BEAM	2 DF #1 GRADE
D. STUDS	2 DF #2 GRADE
E. POST AND COLUMN	2 DF #1 GRADE

- STATEMENT OF SPECIAL INSPECTIONS

CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSPECTIONS" SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE DCS INSPECTORS AND OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER SEC. 1706.1.

2. CONTINUOUS SPECIAL INSPECTION BY A REGISTERED DUMPY INSPECTOR IS REQUIRED FOR FIELD WELDING, CONCRETE STRENGTH $f_c > 2500$ PSI, HIGH STRENGTH BOLTING, SPRAYED-ON FIREPROOFING, ENGINEERED WELDING, HIGH-LEFT GRINDING, PRE-STRESSED CONCRETE, LOAD DIAGRAMS AND SPECIAL MECHANICAL CONNECTIONS/CAST FRAMES" (1704 & CHAPTERS 19, 21, AND 22)

3. FOUNDATION SILLS SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD (2004-11-14)

4. WELDING -

FIELD WELDING TO BE DONE BY WELDERS CERTIFIED BY THE DCS FOR (STRUCTURAL STEEL, REINFORCING STEEL) (LIGHT GAUGE STEEL). CONTINUOUS INSPECTION BY DUMPY INSPECTOR IS REQUIRED.

5. CONTINUOUS INSPECTION IS REQUIRED IN ACCORDANCE WITH TABLE 1704.3.

6. PERIODIC SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH SECTION 1704.3 AND TABLE 1704.3.

7. SHOP WELDS MUST BE PERFORMED IN A DCS LICENSED FABRICATOR'S SHOP.

8. DCS LICENSED FABRICATOR IS REQUIRED FOR (BRUSSES), (STRUCTURAL STEEL), AND GULAM BEAMS MUST BE FABRICATED IN THE DCS LICENSED SHOP. IDENTIFY GRADE SYMBOLS AND QUALIFICATION SPECIES PER 1-5A, 2018 NDS SUPP.

9. PROVIDE LEAD HOSE NOZ - 70% OF THREADED SHANK DIA. AND FULL DIA. FOR SMOOTH SHANK PORTION. 2018 NDS

10. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING TO COMPRISIS OF THE SECONDARY FORCE RESISTING SYSTEM. SPECIAL INSPECTION SCHEDULING IS REQUIRED FOR CONCRETE OR MASONRY.

11. CONTROLLED ACTIVITY INSPECTION IS REQUIRED FOR BUILDINGS OVER 5 STOREYS (FLOOR AREA OVER 50,000 SQ FT OF GROUND FLOOR AREA) (BUILDINGS OVER 200,000 SQ. FT. OF FLOOR AREA) 1704.19.

12. THE SPECIAL INSPECTION MUST BE CERTIFIED BY THE DCS, DEVELOPMENT SERVICES, IN THE CATEGORY OF THE REGISTERED SPECIAL INSPECTION.

13. A COPY OF THE RESEARCH REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

2. ALL WORK SHALL CONFORM TO THE CBC 2019.
3. THE FOLLOWING NOTES AND ALL OTHER TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS NOTED OTHERWISE.
4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
5. FRAMING CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE FRAMED SIMILAR TO THE DETAILS SHOWN FOR THE RESPECTIVE MATERIALS.
6. PROVIDE OPENINGS AND SUPPORTS FOR MECHANICALS EQUIPMENT, DUCTS, PIPING, VENTS, AND ETC. AS REQUIRED. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL OPENINGS AND EQUIPMENT WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS. ALL SUSPENDED EQUIPMENT TO BE PROVIDED WITH APPROVED ALL BRACIS.
7. CONTRACTOR MUST CLARIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE COMMENCING WORK. ARCHITECT SHALL BE INFORMED AND NOTIFIED ANY TYPE OF DISCREPANCIES.
8. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
9. DESIGN MATERIALS, EQUIPMENT, AND PRODUCTS OTHER THAN THOSE DESCRIBED BELOW OR OTHERWISE SPECIFIED ON DRAWINGS MAY BE CONSIDERED FOR USE. PROVIDED PRIOR TO APPROVAL IS OBTAINED FROM THE OWNER, ARCHITECT/ENGINEER, AND THE APPLICABLE GOVERNING CODE AUTHORITY.
10. CONTINUOUS INSPECTION BY A CENT CITY LICENSED DEPUTY INSPECTOR IS REQUIRED FOR ALL STRUCTURAL CONNECTIONS, FOOTINGS, GRADE BEAMS, AND RETAINING WALLS DURING INSTALLATION.
11. DESIGN CRITERIA

- FOUNDATIONS

1. ALLOWABLE FOUNDATION PRESSURE USED IN THE DEVELOPMENT AND DESIGN OF STRUCTURE IS 1500 PSF. (NATURAL FIRM SOIL)
2. FOUNDATION SHALL BE THE SIZE AND TYPE AS INDICATED ON THE DRAWINGS.
3. ALL EXCAVATIONS ARE TO BE INSPECTED AND APPROVED BY A SOIL ENGINEER PRIOR TO THE PLACEMENT OF ANY FILL OR REINFORCING STEEL.
4. SUB SOIL BELOW SLAB AND FOOTINGS SHALL BE PRESERVED FOR 47 HOURS AND VERIFIED WITH GEOTECHNICAL ENGINEER'S REPORT OF PLACING CONCRETE.
5. CONCRETE CONTRACTOR TO INSURE A TRUE LEVEL FOUNDATION PRIOR TO PLACING CONCRETE.
6. CONCRETE CONTRACTOR TO VERIFY AND LOCATE ALL DRAIN OPENING AND AVOID PLACEMENT OF ANCHOR BOLTS IN THESE LOCATIONS.
7. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
8. THE CONCRETE CONTRACTOR SHALL BACK FILL ALL RETAINING WALLS.
9. CONCRETE CONTRACTOR TO FURNISH BOLTS, NETTING AND STEEL AS REQUIRED BY THE CONCRETE DETAILS AND DRAWINGS.
10. IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, A SOILS INVESTIGATION REPORT MAY BE REQUIRED.

CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM S-150, TYPE II.

2. AGGREGATES SHALL BE NATURAL SAND AND ROCK CONFORMING TO ASTM C-33.

3. DOUBLES FOR WALL SHALL BE SAME SIZE AND SPACING AS THE WALL REINFORCEMENT AND SHALL LAP WITH WALL REBAR AS NOTED ABOVE, UNLESS NOTED OTHERWISE.

4. ANCHOR BOLTS, DOWNLAYS INCREASED SHALL BE SECURELY TIED IN PLACE PRIOR TO THE POURING OF ANY CONCRETE OF GROUT.

5. ALL EXCAVATIONS SHALL BE FREE OF LOOSE DIRT, WATER OR DEBRIS PRIOR TO POURING CONCRETE.

6. FORMS SHALL BE CONSTRUCTED AS TO MAINTAIN THE REQUIRED POSITION AND SHAPE DURING AND AFTER THE PLACING OF CONCRETE AND BE SUFFICIENTLY TIGHT TO PREVENT THE LEAKAGE OF CONCRETE.

7. NO PIPES OR DUCTS ARE TO BE PLACED IN CONCRETE SLABS OR WALLS UNLESS SPECIFICALLY DETAIL.

8. ALL CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.

9. PREHARDENED PLACED CONCRETE SHALL HAVE A 28-DAY STRENGTH OF 3000psi; MATERIALS, PROPORTIONING AND APPLICATION, SHALL CONFORM WITH ACI STANDARD 562-7.7. ALL CONCRETE SHALL BE PLACED AND FINISHED BY A QUALIFIED CONTRACTOR UNDER CONTINUOUS INSPECTION BY A REGISTERED DESIGN BUILDING INSPECTOR.

ALL REINFORCING SHALL BE A.S.T.M. A-615-60 GR50. REGARDLESS OF BAR SIZE, WELDING WIRE SHALL BE A.S.T.M. A-185, LAP - 1/2 TO 1/3 SPACES, MIN. FOR STRUCTURAL SLABS.

ALL BARS SHALL BE CLEAN AS PER A.S.T.M. A-305

ALL REINFORCING SHALL BE DEFORMED AS FOLLOWS: LONGER THAN 40 DIAMETER OF 2" MIN. BARS SHALL BE DEFORMED AS LOOSE FLAKY RUST OR GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND.

ALL BENDS SHALL BE MADE COLD.

SPACING OF BARS SHALL HAVE LAPPING OF 40 DIA. OR 2'-0" MIN. IN ALL CONTINUOUS REINFORCEMENT OF FOOTINGS AND CONCRETE WALLS, EXCEPT AS NOTED ON PLANS, MAXIMUM SPACING OF BARS SHALL BE 48" MAX. IN ALL OTHER PLACES.

ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE.

CONCRETE PROTECTION FOR REINFORCING SHALL BE BASED ON AC 308-14 COVER SHALL BE AS:

A. POURED AGAINST EARTH	3"
B. POURED AGAINST FORM BELOW GRADE	2"
C. FORMED SLABS	1"
D. SLABS ON GRADE (FROM TOP TO TOP SLAB)	1"
E. WALL EXPOSED TO WEATHER	1"
F. WALL NOT EXPOSED TO WEATHER	1"

8. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D14 USING PROPER LOW HYDROGEN ELECTRODES.

9. ALL WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY WELDERS SPECIFICALLY CERTIFIED FOR REINFORCING STEEL.

10. MIN. RE-BAR SPACING KEPT 1.5d

11. ALL LONGITUDINAL REINFORCING IN DUCTILE COLUMNS, DUCTILE BEAMS' ALL VERTICAL REINFORCING IN SHEAR WALLS, AND ALL REINFORCING MARKED "500" SHALL BE LONG-ALLOY STEEL. REINFORCING ASTM A706, BRILET STEEL ASTM A572, GRADE 60 REINFORCEMENT MAY BE USED IN THESE MEMBERS IF (1) THE ACTUAL YIELD STRENGTH BASED ON TENSIL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI, AND (2) THE RATIO OF ACTUAL YIELD STRENGTH TO THE ACTUAL TENSILE YIELD STRENGTH IS NOT LESS THAN 1.25. WELDING OF REINFORCING BARS WHERE SHOWN ON DRAWINGS SHALL COMPLY WITH AWS D14.5 STRUCTURAL WELDING CODE -REINFORCING STEEL. IF WALL REPORTS ARE NOT AVAILABLE, THE STRUCTURAL WELDING CODE BE TESTED PER THE SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.

Figure 1.1 illustrates common symbols used in architectural drawings, organized into two columns. The left column includes symbols for a circle with a dot (A), a circle with a cross (I), a north arrow (N), a floor elevation symbol (top of floor), a hatched area for earth, a hatched area for gravel, and a matchline symbol. The right column includes symbols for a plan number (01), a sheet name, a section elevation symbol (P), a section number, a section symbol, a detail number, and a detail symbol. Each symbol is accompanied by its corresponding text label.

SIMPSON STRONG-TIE (A35, LTP4, HH AND Z STRUCTURAL ANGLE, CLIPS AND PLATES FOR WOOD FRAMING)	ER-112
SIMPSON STRAP (CUST, MST, HST AND LSTA)	ESR-210
SIMPSON HOLD-DOWN (HOU, HDQ, HHQD AND PHD)	ESR-233
SIMPSON CCG & ICCG	ESR-260
SIMPSON SET-XP EPOXY	ESR-250
HARDY FRAME PANEL AND HARDY FRAME BRACE	ESR-208

S100	GENERAL NOTES & INFO.
S110	DETAILS
S200	FOUNDATION PLAN
S201	ROOF FRAMING PLAN

GENERAL NOTES & INFO.

8/19/2022

SALE

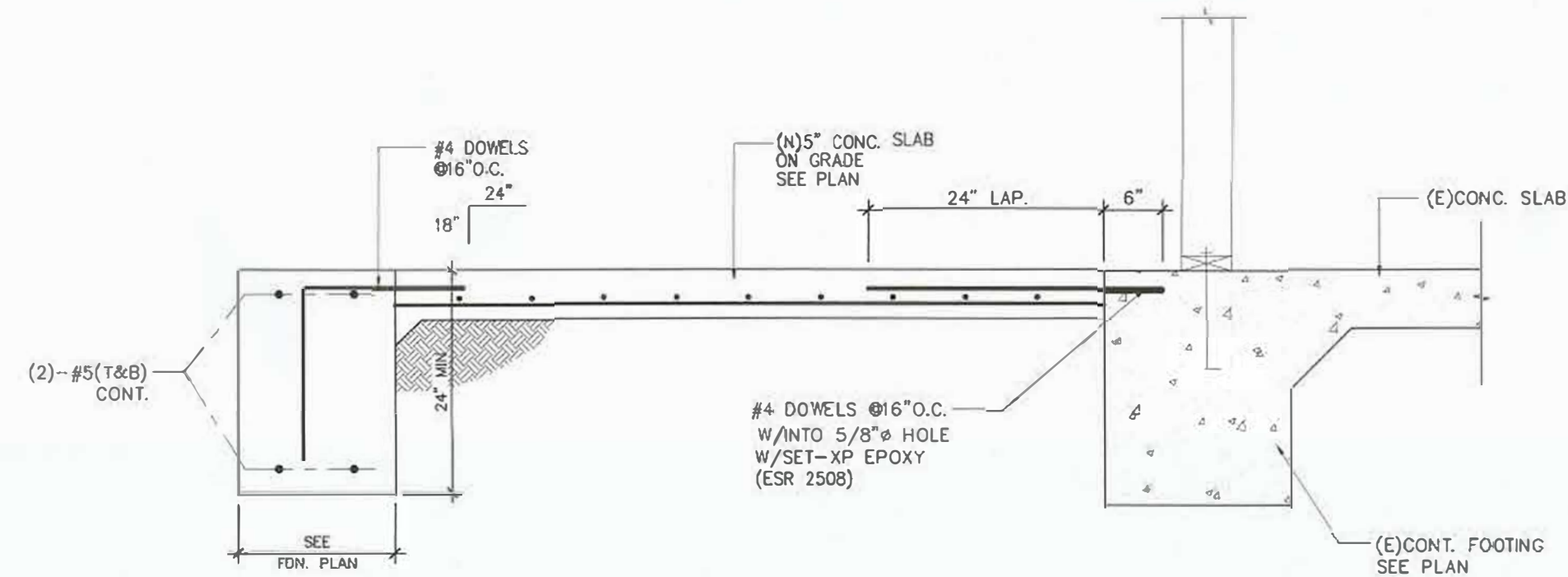
AWN

P22-0802

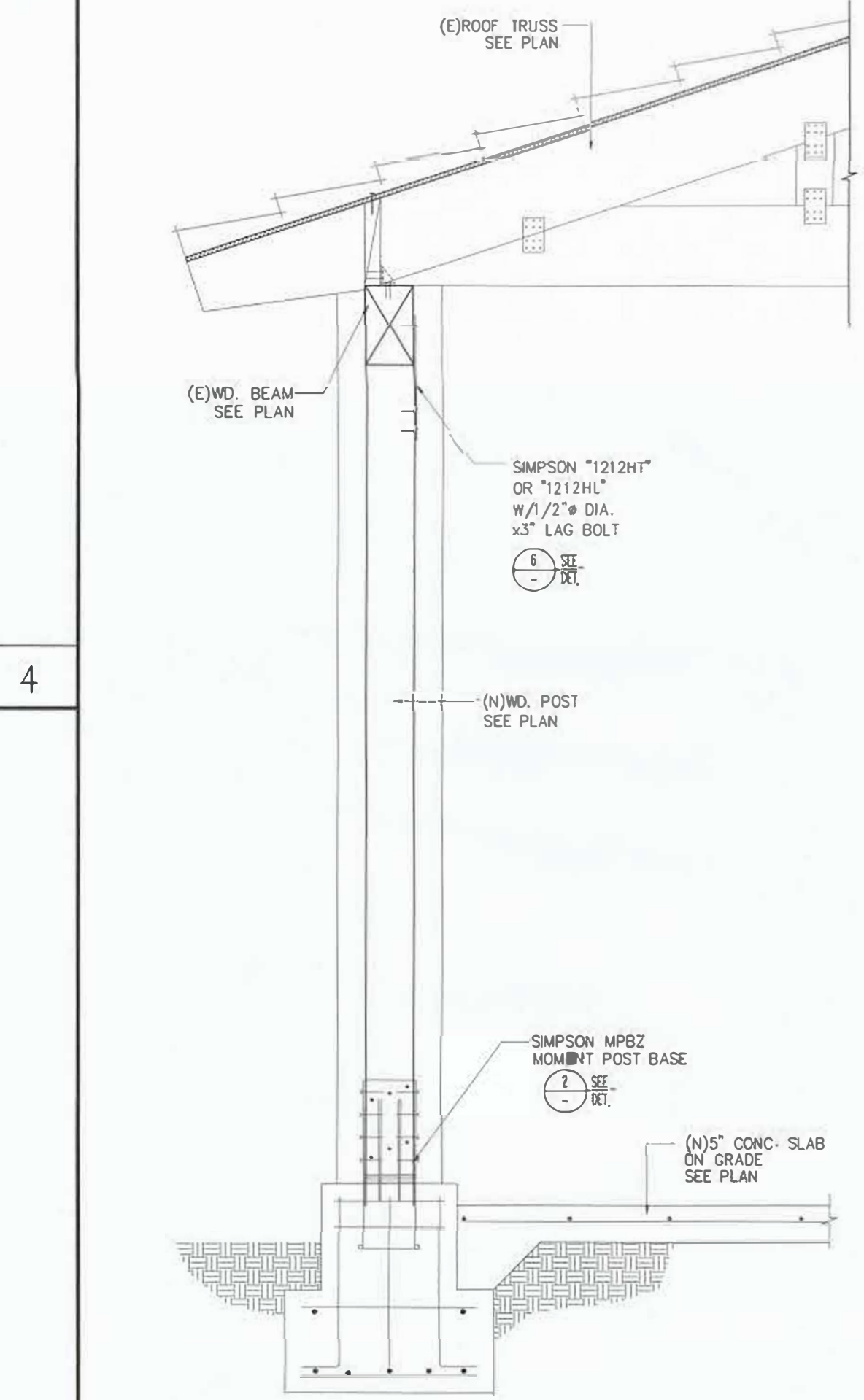
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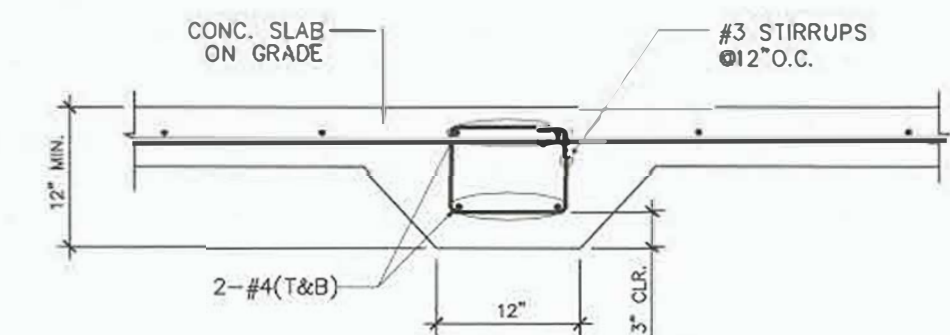
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SPECIFICATIONS SHALL INCLUDE THE
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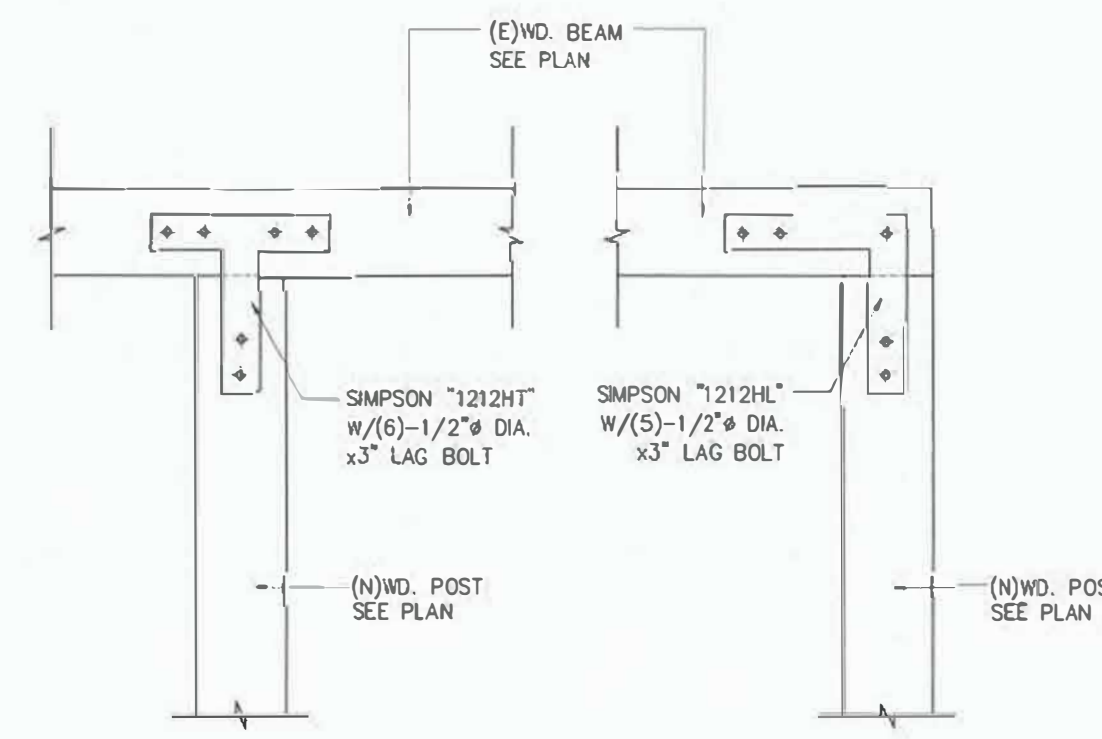
(N)CONC. SLAB TO (E)FOOTING CONNECTION



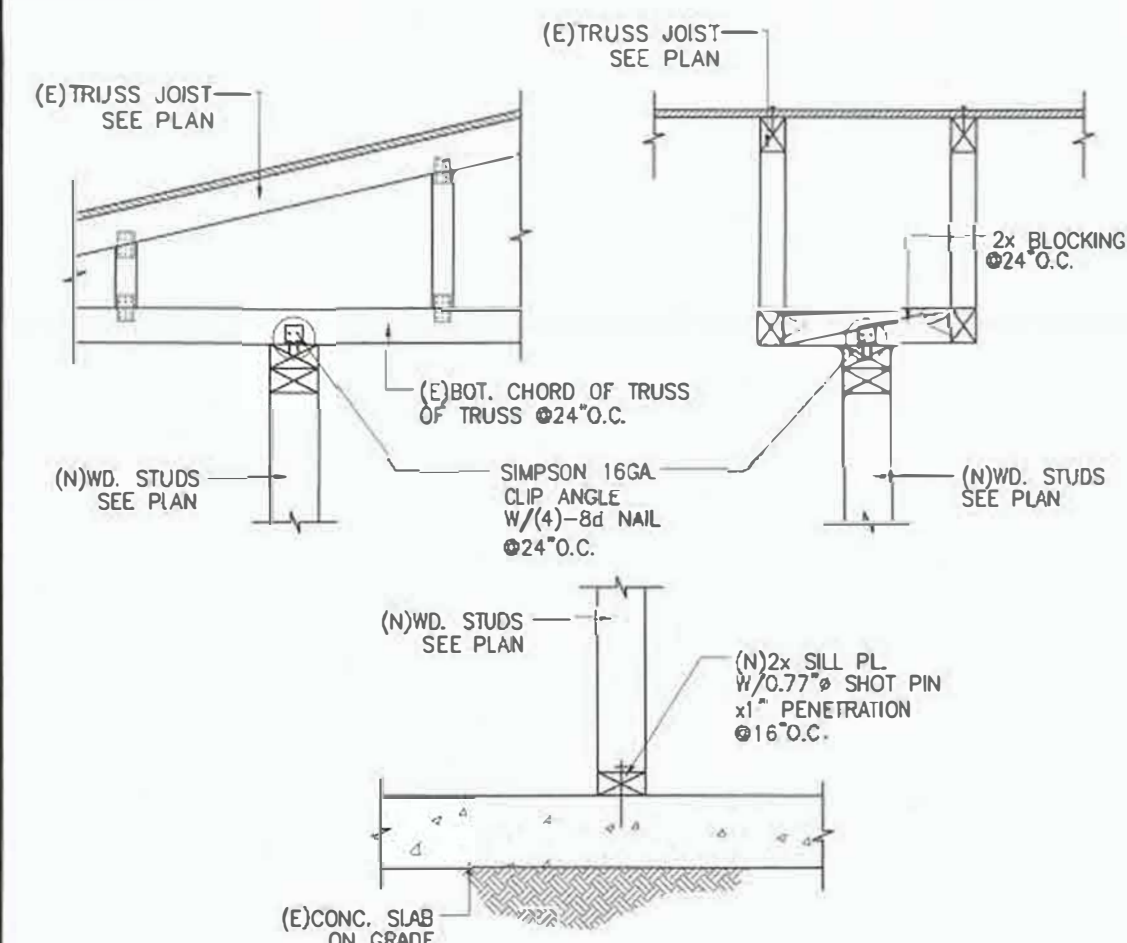
ENTRY GATE SECTION



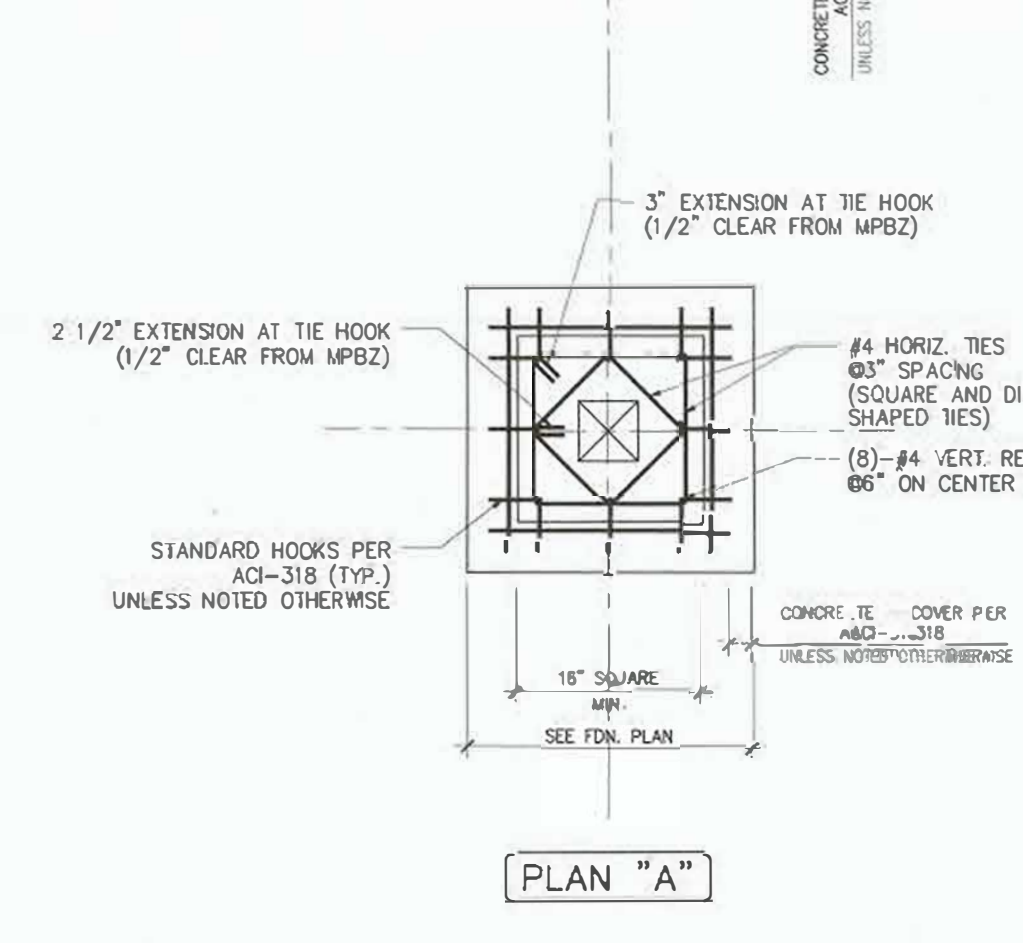
CONC. SLAB SECTION



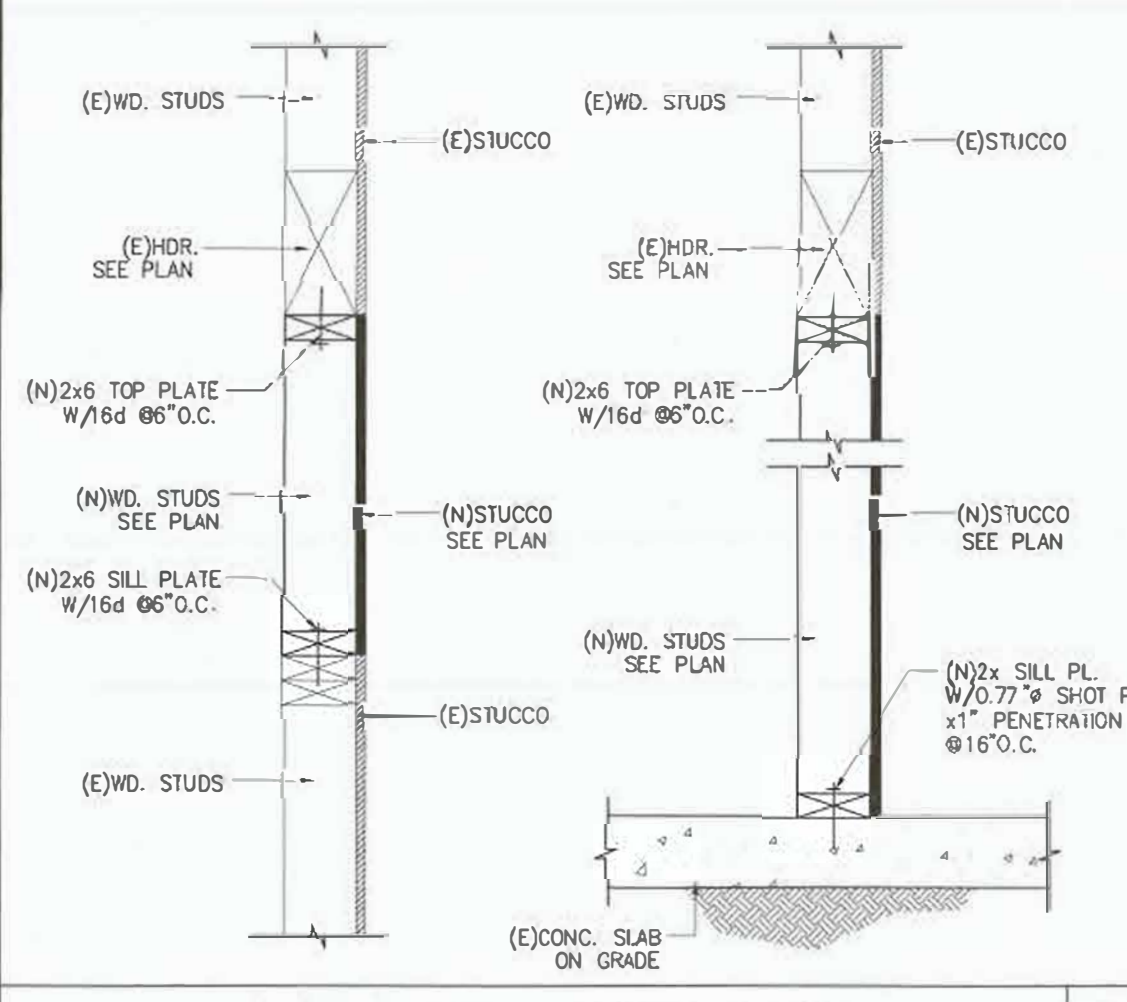
TYPICAL BEAM TO COL. CONNECTION
(ONE LEVEL)



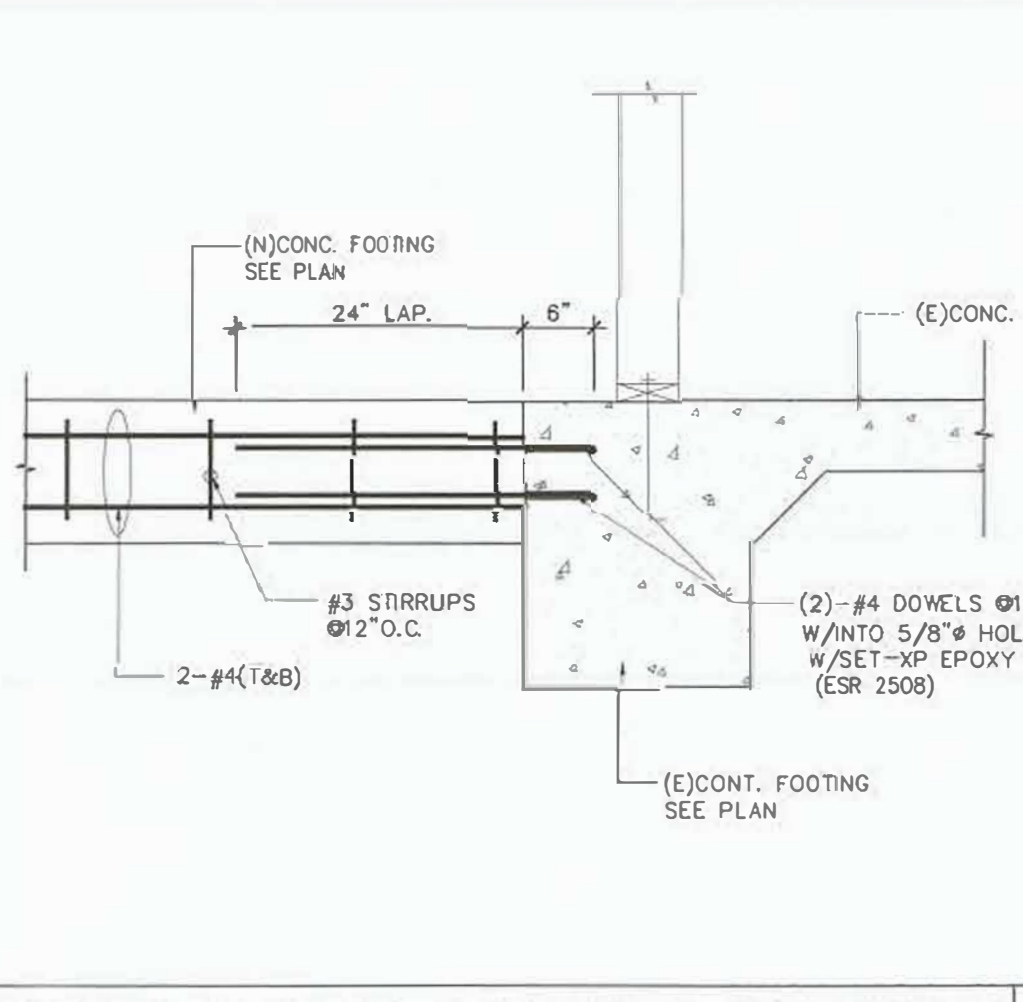
(N)WD. WALL CONNECTION



REINFORCED CONCRETE FOOTING



(N)WD. WALL CONNECTION



(N)CONC. SLAB TO (E)FOOTING CONNECTION

STRUCTURAL NOTES (FASTENING SCHEDULE)

TABLE 2304.101

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
Roof		
1. Flashing between ceiling joists, rafters or trusses to top plate or other flashing below	3-8d common(2 1/2"x0.131"); or 3-10d box (3"x0.128"); or 3-3"x0.131" nails	Each end, toenail
Blocking between rafters or truss out of the wall top plate, to rafter or truss	2-8d common(2 1/2"x0.131") 2-3"x0.131" nails	Each end, toenail
Flt blocking to luss and web filler	1-6d common(3 1/2"x0.142") 3"x0.131" nails @ 6" c.c.	End nail
2. Ceiling joists to top plate	3-8d common(2 1/2"x0.131"); or 4-10d box (3"x0.128"); or 4-3"x0.131" nails	Face nail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust)	3-16d common(3 1/2"x0.162"); or 4-10d box (3"x0.128"); or 4-3"x0.131" nails	Face nail
4. Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Note 2308.7.3.1)	Per Table 2308.7.3.1	Face nail
5. Color tie to rafter	3-10d common (3"x0.148"); or 4-10d box (3"x0.128"); or 4-3"x0.131" nails	Face nail
6. Rafter or roof truss to top plate (see Section 2308.7.3, Table 2308.7.3)	3-10d common (3"x0.148"); or 3-16d box (3 1/2"x0.137"); or 4-10d box (3"x0.128"); or 4-3"x0.131" nails	Face nail
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam	2-16d common (3 1/2"x0.162"); or 3-10d box (3"x0.128"); or 3-16d box (3 1/2"x0.137"); or 4-10d box (3"x0.128"); or 4-3"x0.131" nails	Toenail

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
Wall		
8. Stud to stud (not at braced wall panels)	16d common (3 1/2"x0.162"); 16d box (3"x0.128"); or 3"x0.131" nails	24" c.c. face nail
9. Stud to stud and sheathing studs at intersecting wall corners (at braced wall panels)	16d common (3 1/2"x0.162"); or 16d box (3 1/2"x0.137"); or 3"x0.131" nails	16" c.c. face nail
10. Built-up header (2" to 2" header)	16d common (3 1/2"x0.162"); or 16d box (3 1/2"x0.137"); or 4-8d common (2 1/2"x0.131"); or 4-10d box (3"x0.128")	12" c.c. each edge, face nail
11. Continuous header to stud	16d common (3 1/2"x0.162"); or 16d box (3"x0.128"); or 3"x0.131" nails	Toenail
12. Top plate to top plate	16d common (3 1/2"x0.162"); or 3"x0.131" nails	16" c.c. face nail
13. Top plate to top plate, at end joints	8-16d common (3 1/2"x0.162"); or 12-10d box (3"x0.128"); or 12-3"x0.131" nails	Each side of end joint, face nail (minimum 24" top space length each side of end joint)
14. Bottom plate to joist, end joint, band joint or blocking (not at braced wall panels)	16d common (3 1/2"x0.162"); or 16d box (3 1/2"x0.137"); or 3"x0.131" nails	16" c.c. face nail
15. Bottom plate to joist, end joint, band joint or blocking at braced wall panels	2-10d common (3 1/2"x0.162"); or 3-10d box (3"x0.128"); or 4-3"x0.131" nails	16" c.c. face nail
16. Stud to top or bottom plate	4-8d common (2 1/2"x0.131"); or 4-10d box (3"x0.128"); or 4-3"x0.131" nails	Toenail
17. Top or bottom plate to stud	2-16d common (3 1/2"x0.162"); or 3-10d box (3"x0.128"); or 3-3"x0.131" nails	End nail
18. Top plates, laps of corners and intersections	2-16d common (3 1/2"x0.162"); or 3-10d box (3"x0.128"); or 3-3"x0.131" nails	Face nail
19. 1" brace to each stud and plate	2-8d common (2 1/2"x0.131"); or 2-10d box (3"x0.128"); or 2-3"x0.131" nails	Face nail
20. 1"x6" sheathing to each bearing	2-8d common (2 1/2"x0.131"); or 2-10d box (3"x0.128")	Face nail
21. 1"x6" and water sheathing to each bearing	3-8d common (2 1/2"x0.131"); or 3-10d box (3"x0.128")	Face nail

FOR: 1 INCH = 25.4 MM.
a. NAILS SPACED AT 6" O.C. AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 40' OR MORE.
FOR WALLING OF WOOD-STRUCTURE PANEL AND PARTICLEBOARD SHEATHING AND SHEAR WALLS, REFER TO SECTION 2305.
NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON BOX OR CASING.
b. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NON-STRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
c. WHERE A BATTERY IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TECHNIQUES IN THE BATTERY SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

FASTENING SCHEDULE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
Floor		
22. Joist to sill, top plate, or girder	3-8d common(2 1/2"x0.131"); or floor 3-10d box (3"x0.128"); or 3-3"x0.131" nails	Toenail
23. Rim joist, band joist, or blocking to top plate, sill or other flashing below	8d common(2 1/2"x0.131"); or 10d box (3"x0.128"); or 3"x0.131" nails	6" c.c. toenail
24. 1"x6" subfloor or less to each joist	2-8d common (2 1/2"x0.131"); or 2-10d box (3"x0.128")	Face nail
25. 2" subfloor or joist or girder	2-16d common (3 1/2"x0.162")	Face nail
26. 2" planks (plank & beam - floor & roof)	2-16d common (3 1/2"x0.162")	Each bearing, face nail
27. Built-up girders and beams 2" lumber layers	20d common (4"x0.192") And: 2-20d common (4"x0.192"); or 4-10d box (3"x0.128"); or 3-3"x0.131" nails	12" c.c. face nail at top and bottom staggered on opposite sides 24" c.c. face nail at top and bottom staggered on opposite sides
28. Ledger strip supporting joists or rafters	3-16d common(3 1/2"x0.162"); or 4-10d box (3"x0.128"); or 4-3"x0.131" nails	Each joist or rafter, face nail
29. Joist to band joist or rim joist	3-16d common(3 1/2"x0.162"); or 4-10d box (3"x0.128"); or 4-3"x0.131" nails	End nail
30. Bridging or blocking to joist, rafter or truss	2-8d common(2 1/2"x0.131"); or 2-10d box (3"x0.128"); or 2-3"x0.131" nails	Each end, toenail

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing		
	Edges (inches)	Intermediate supports (inches)
31. 1/2" - 3/4"	6d common or deformed (2"x0.113") (subfloor and wall) 8d box or deformed (2 1/2"x0.137") (roof) 2 3/4"x0.113" nail (subfloor and wall) 2 3/4"x0.113" nail (roof)	6 12 6 12 6 12 4 8
32. 3/4" - 1"	8d common (2 1/2"x0.137") 6d deformed (2"x0.113")	6 12 4 8
33. 1" - 1 1/2"	10d common (3"x0.148"); or 8d deformed (2 1/2"x0.137")	6 12 4 8
Other exterior wall sheathing		
34. 1/2" fiberboard sheathing ^a	1 1/2" galvanized roofing nail (1/2" head diameter)	3 6
35. 5/8" fiberboard sheathing ^a	1 3/4" galvanized roofing nail (3/4" head diameter)	3 6
Wood structural panels, combination subfloor underlayment to framing		
36. 3/4" and less	8d common (2 1/2"x0.137"); or 6d deformed (2"x0.113")	6 12
37. 3/4" - 1"	8d common (2 1/2"x0.137"); or 6d deformed (2 1/2"x0.137")	6 12
38. 1 1/2" - 1 3/4"	10d common (3"x0.148"); or 8d deformed (2 1/2"x0.137")	6 12
Panel siding to framing		
39. 1/2" and less	6d corrosion-resistant siding (1 3/4"x0.106"); or 6d corrosion-resistant casing (2"x0.099")	6 12
40. 3/4"	8d corrosion-resistant siding (2 1/2"x0.128"); or 8d corrosion-resistant casing (2 1/2"x0.113")	6 12
Interior paneling		
41. 1/2"	4d casing (1 1/2"x0.080"); or 4d finish (1 1/2"x0.072")	6 12
42. 3/4"	6d casing (2"x0.099"); or 6d finish (2"x0.087") (Panel supports at 24 inches)	6 12

REVISIONS

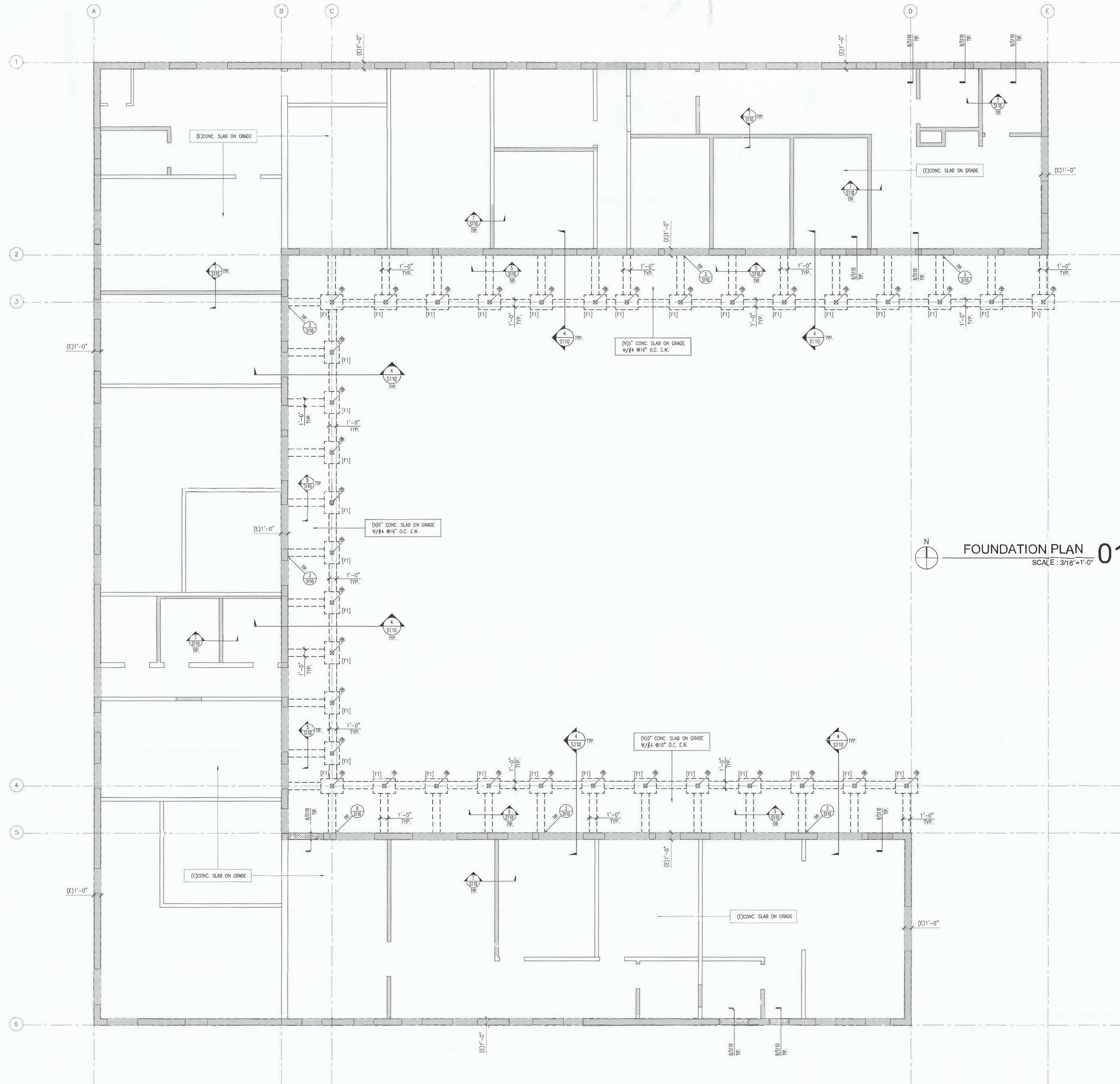


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DETAILS

DATE 5/19/2022
SCALE
DRAWN
JOB# P22-0802
SHEET#

S110



FOUNDATION PLAN 01
SCALE: 3/16" = 1'-0"

SHEET NOTES

- SEE SHEET S100 MATERIAL SPECIFICATIONS & NOTES.
- ALLOWABLE SOILS BEARING PRESSURE IS 1500 psf.
- ALL CONCRETE STRENGTH IS $f_c = 3000$ psi. (28 DAYS)
- ALL REINFORCING STEEL STRENGTH $f_y = 60$ ksi (GRADE 60)
- PROVIDE 10d BOUNDARY NAILS AT THE PERIMETER OF BUILDING.
- ALL (N)STRUCTURAL STUDS TO BE 2x6 @ 16" O.C. FOR EXTERIOR WALL & 2x4 @ 16" O.C. FOR INTERIOR WALL.

PLAN LEGEND

SYMBOL	DESCRIPTION
	INDICATES (N)WD. STUD
	INDICATES (N)FOOTING.
	INDICATES (E)FOOTING.

WOOD COLUMN SCHEDULE

WOOD COL. TYPE	WOOD COL. SIZE	CONNECTION DETAIL
C88	6x6 #1	2/S110 [FOOTING CONNECTION]

FOUNDATION SCHEDULE

TYPE	FOUNDATIONS
[F1]	2'-0" x 3'-0" x 24" CONCRETE PAD W/ (3) #5 (T&B) EA. WAY.

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.

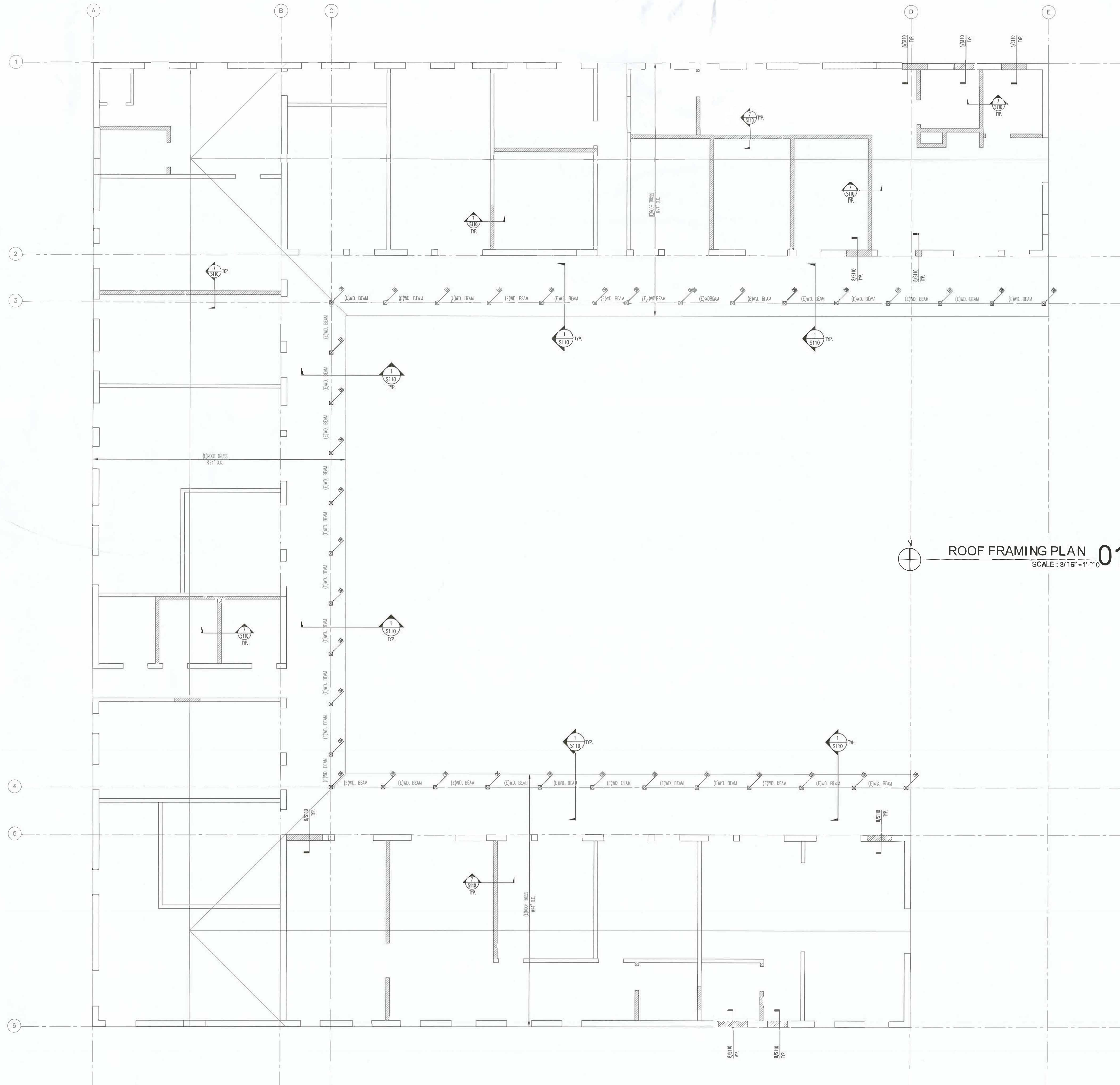
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FOUNDATION PLAN

DATE	8/19/2022
SCALE	-
DRAWN	-
JOB#	P22-0802
SHEET#	S200



ROOF FRAMING PLAN **01**
SCALE: 3/16"=1'-0"

SHEET NOTES

- SEE SHEET S100 MATERIAL SPECIFICATIONS & NOTES.
- ROOF DIAPHRAGM TO BE 15/32" PLYWOOD "SHEATHING GRADES, C-C, C-D" (PANEL INDEX 32/16) PS1-95 W/10d COMMON NAILS @6/6/12.
- REPLACE ROOF TILE TO BE LIGHTER THAN EXISTING ROOF TILE.
- EXISTING ROOF TRUSS REMAIN.
- FASTENERS FOR WOOD STRUCTURAL PANEL SHEATHING ON SHEAR WALLS AND DIAPHRAGMS SHALL BE COMMON NAILS WITH FULL HEADS UNLESS OTHERWISE APPROVE
- ALL (N) STRUCTURAL STUDS TO BE 2x6 @16"O.C. FOR EXTERIOR WALL & 2x4 @16"O.C. FOR INTERIOR WALL.

PLAN LEGEND

SYMBOL	DESCRIPTION
	INDICATES (N)W.D. STUD

WOOD COLUMN SCHEDULE

WOOD COL. TYPE	WOOD COL. SIZE	CONNECTION DETAIL
C66	6x6 #1	6/S110 (ONE-LEVEL)

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.

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ROOF FRAMING PLAN

DATE 8/19/2022
SCALE -
DRAWN -
JOB# P22-0802
SHEET#

S201

CAL GREEN NOTES:

1) AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM (CALGREEN SECTION: 4.504.2).

2) BATHROOM EXHAUST FANS SHALL BE ENERGY START COMPLIANT AND DUCTED TO TERMINATE OUTSIDE THE BUILDING.

3) UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, BATHROOM EXHAUST FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL, WHICH SHALL BE CAPABLE OF ADJUSTMENT BETWEEN RELATIVE HUMIDITY OF 50 TO 80% (SECT. 4.506.1).

4) WHEN SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL THE SHOWERHEADS AND/OR OTHER SHOWERS OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 2.0 GALLONS PER MINUTE AT 90 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME (CLAGREEN SECTION: 5.303.3.3.2)

HUMAN OCCUPANCY NOTE:

INTERIOR SPACES INTENDED FOR HUMAN OCCUPANY SHALL BE PROVIDED WITH ACTIVE OR PASSIVE SPACE-HEATING SYSTEM CAPABLE OF MAINTAININ A MINIMUM 68 DEGREES FAHRENHEIT AT A LEVEL 3' OFF THE FLOOR. SHOW BASIS FOR COMPLANCE. CBC 1204.1

GENERAL SPECIFICATIONS

- EVERY DUCT AND PLENUM WHICH IS A PORTION OF THE COMFORT HEATING AND/OR COOLING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE 2019 CALIFORNIA MECHANICAL CODE. THE CONSTRUCTION, INSULATION AND SUPPORT OF EVERY DUCT AND PLENUM SHALL COMPLY WITH LOCAL CODE AND SMACNA.
- CONCEALED SPACES, CIRCULATION AIR NO COMBUSTIBLE MATERIAL (SUCH AS EXPOSED COMMUNICATION CABLES, INSULATED WIRES, PLASTIC TUBING OR PIPING, PIPE INSULATION, CONDENSATE PAN INSULATION, WOOD, PVC, ABS AND OTHER PLASTICS) TO BE IN CONCEALED SPACES USED TO CONVEY CIRCULATING AIR SUPPLY. WHEN COMBUSTIBLE MATERIAL IS TO BE LOCATED IN THE ABOVE SPACES, IT SHALL BE APPROVED FOR SUCH INSULATION.
- INSULATION OF DUCTS:
EVERY CONDITIONED AIR SUPPLY AND PLENUM SHALL BE INSULATED WITH NO LESS THAN 2" R-8 OF INSULATION VALUE.
ONLY APPROVED MATERIALS SHALL BE USED WITHIN DUCTS OR PLENUMS FOR INSULATING, SOUND DEADENING OR OTHER PURPOSES.

INSULATION MAY BE OMITTED ON THE PORTION OF AN OUTSIDE AIR DUCT WHICH IS LOCATED WITHIN A WALL OR A FLOOR/CEILING SPACE WHERE BOTH SIDES AND THIS SPACE ARE EXPOSED TO CONDITIONED AIR AND WHERE THIS SPACE IS NOT VENTILATED OR OTHERWISE EXPOSED TO UNCONDITIONED AIR.
- SEALING:
TRANSVERSE SUPPLY DUCTS, TAPED OR SEALED WITH MASTIC EXCEPT FOR DUCTS EXPOSED TO CONDITIONED SPACE, WHERE DUCT STATIC PRESSURE EXCEEDS 3/4" WATER, LONGITUDINAL JOINTS, TAPED OR SEALED WITH MASTIC.
- INSPECTION:
INSPECTION TO BE MADE AND DUCTWORK APPROVED BEFORE COVERING WITH INSULATION.
- TEMPERATURE CONTROLS:
EACH HVAC SYSTEM SHALL BE PROVIDED WITH AT LEAST ONE AUTOMATIC TEMPERATURE CONTROL DEVICE FOR THE REGULATION OF TEMPERATURE THESE AUTOMATIC TEMPERATURE CONTROL DEVICES SHALL BE CAPABLE OF BEING SET TO MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55 DEGREES F TO 85 DEGREES F. SHALL BE CAPABLE OF OPERATING THE SYSTEM HEATING AND/OR COOLING IN SEQUENCE. EXCEPT AS ALLOWED, THESE CONTROLS SHALL BE ADJUSTABLE TO PROVIDE A DEAD BAND OF 5 DEGREES F BETWEEN FULL HEATING AND FULL COOLING. CONTROLS SHALL HAVE THE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70 DEGREES F AND OF TERMINATING ALL COOLING AT A TEMPERATURE NOT LESS THAN 78 DEGREES F.

FIRE DAMPER NOTES

- ALL FIRE AND SMOKE DAMPERS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING AND INSTALLATION INSTRUCTIONS. FIRE DAMPERS SHALL BE DYNAMIC TYPE. (CBC 716.3.1, 716.2)
- WHEN THE AUTOMATIC ACTIVATION OF A SMOKE DAMPER OCCURS, THE HVAC SYSTEM SERVING SUCH DAMPERS SHALL IMMEDIATELY SHUT DOWN (CMC 606.8)
 - FIRE AND SMOKE DAMPER SHALL BE LISTED AND BEAR THE LABEL OF AN APPROVED TESTING AGENCY
 - FIRE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555. ONLY FIRE DAMPERS LABELED FOR USE IN DYNAMIC SYSTEMS SHALL BE INSTALLED IN HEATING, VENTILATION, AND AIR-CONDITIONING SYSTEMS DESIGNED TO OPERATE WITH FANS ON DURING A FIRE. SMOKE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555S. COMBINATION FIRE AND SMOKE DAMPERS SHALL COMPLY WITH BOTH UL 555 AND UL 555S. CEILING RADIATION DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555C. (CBC 716.3.1)
 - FIRE DAMPERS SHALL HAVE A MINIMUM DAMPER RATING OF 1.5 HOURS WHEN INSTALLED IN LESS THAN 3-HOUR FIRE -RESISTANCE RATED ASSEMBLIES. RATINGS FOR DAMPERS INSTALLED IN WALLS RATED AT 3 HOURS OR MORE SHALL HAVE A MINIMUM FIRE RATING OF 3 HOURS. (CBC 716.3.2)
 - FIRE AND SMOKE DAMPERS SHALL BE PROVIDED WITH AN APPROVED MEANS OF ACCESS, WHICH IS LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING PARTS. THE ACCESS OPENING SHALL NOT REDUCE THE FIRE RESISTANCE RATING OF THE ASSEMBLY. FIRE AND SMOKE DAMPER ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR HAVING LETTERS NOT LESS THAN 1/2" HIGH READING "FIRE DAMPER" OR "FIRE/SMOKE DAMPER" (CBC 716.4)

HVAC GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE 2019 CALIFORNIA MECHANICAL CODE, UNIFORM BUILDING CODE, AND ALL OTHER APPLICABLE LOCAL CITY CODES AND REGULATIONS, INCLUDING CALIFORNIA ENERGY CONSERVATION STANDARDS.
- THIS CONTRACTOR SHALL PAY FOR ALL PERMITS AND FEES.
- CONTROL LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR AND CONDUIT BY ELECTRICAL CONTRACTOR.
- CONDENSATE DRAIN PIPING AND FINAL CONNECTION TO UNIT BY PLUMBING CONTRACTOR.
- REDWOOD SLEEPER OR PLATFORM FOR ROOF AND OR OUTDOOR ON-GRADE MOUNTED UNITS. DUCT PENETRATION, FACTORY BUILT WALL OR STRUCTURE MOUNTED HVAC EQUIPMENT, CUTTING AND PATCHING BY GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED ON PLAN.
- CONNECT MAIN DUCT TO AIR CONDITIONING UNIT WITH FLEXIBLE CONNECTION FOR VIBRATION AND SOUND ATTENUATION.
- THERMOSTAT SHALL BE 24 VOLT, ONE STAGE HEATING AND ONE OR TWO STAGE COOLING WITH MATCHING SUBBASE AND TAMPER PROOF COVER.
- PROVIDE FILTER FOR AID CONDITIONING AND/OR AIR SIDE UNITS AS REQUIRED PER ASHRAE AND CODE.
- THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ALL OTHER TRADES. THIS INCLUDES COORDINATING THE LOCATION AND SIZE OF ALL OPENINGS, LOCATIONS OF EQUIPMENT PADS AND CHANGES OF LOCATIONS OF DUCTWORK, AIR DISTRIBUTION LOCATIONS, PIPING, AND OTHER EQUIPMENT.
- THE CONTRACTOR SHALL SUBMIT BID BASED ON THE DRAWINGS AND ALTERNATE FOR COST SAVING. THESE DRAWINGS ARE FOR BIDDING PURPOSES.
- COORDINATE THE LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT, AND ARCHITECTURAL ROOM ELEVATIONS.
- DUCTS SHALL BE SUPPORTED WITH 1" WIDE 16-GAUGE HANGER STRAPS AND SHALL BE SPACED AT NO MORE THAN 7'-0" ON CENTERS AND SHALL BE SECURED TO STRUCTURAL MEMBER. EXPOSED DUCTWORK ON ROOF SHALL BE SECURED TO STRUCTURAL MEMBER. EXPOSED DUCTWORK ON ROOF SHALL BE SUPPORTED BY GALVANIZED STEEL ANGLE & SHALL BE PER LOCAL CODE, AND SMACNA STANDARDS.
- ROUND AND RECTANGULAR DUCTWORK ARE INTERCHANGEABLE IF CROSS SECTION AREAS ARE EQUIVALENT WITH PRESSURE RATINGS. CONTRACTOR SHALL VERIFY THE EXACT CEILING SPACES AND PROVIDE OR FABRICATE EQUIVALENT DUCTWORK SIZE FOR PROPER FIT INTERCHANGE WITHOUT ANY ADDITIONAL FEE CHARGE.
- INSTALL VOLUME CONTROL DAMPERS AT EACH SUPPLY DIFFUSER TO AFFORD COMPLETE CONTROL OF THE AIR FLOW IN THE VARIOUS DUCT SYSTEMS. INSTALL SPLITTER DAMPER AT DUCT TAKEOFFS AND DAMPER AS REQUIRED.
- COORDINATE ENTIRE INSTALLATION OF THE H.V.A.C. SYSTEM WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- PROVIDE BACK-DRAFT DAMPER FOR ALL EXHAUST AIR DUCT UNLESS OTHERWISE NOTED PER CODE.
- CONTRACTOR SHALL SUBMIT A COMPLETE BALANCE REPORT FOR APPROVAL. SYSTEM AIR BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AIR BALANCE CONSULTANT. A CERTIFIED AABC OR NEBB. THE REPORT SHALL INCLUDE THE FOLLOWINGS:
 - AIR QUANTITIES AT EACH REGISTER.
 - STATIC PRESSURE READINGS AT INLET AND DISCHARGE OF EACH AIR HANDLING SYSTEM AND AT INLET OF EACH EXHAUST AIR SYSTEM.
 - COOLING AND HEATING SUPPLY AND RETURN AIR TEMPERATURES AT EACH AIR CONDITIONING UNIT.
- ALL LINED DUCT DIMENSIONS ARE NET CLEAR DIMENSION AFTER LINING HAS BEEN INSTALLED.
- ANY MATERIAL, ARTICLE OR PIECE OF EQUIPMENT OTHER THAN THAT INDICATED SHALL NOT BE USED UNLESS APPROVED IN WRITING BY THE ENGINEER AND ANY CHANGES IN MECHANICAL, ELECTRICAL AND/OR OTHER SYSTEMS REQUIRED DUE TO SUCH SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR AND AT NO ADDITIONAL COST TO THE OWNER
- EXHAUST OPENING SHALL BE 10'-0" AWAY OR 3'-0" ABOVE FROM OUTSIDE AIR INTAKE. EXHAUST OPENINGS SHALL ALSO BE 3'-0" AWAY FROM ANY BUILDING INTAKE (DOORS, WINDOWS, ETC.)
- ACCURATE AS-BUILT DRAWINGS SHALL BE MADE DURING CONSTRUCTION AND SUBMITTED FOR APPROVAL UPON COMPLETION OF INSTALLATION.
- EQUIPMENT APPROVAL AND INTERLOCK DIAGRAM SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PURCHASE OF INSTALLATION.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT AND INFORM THE ARCHITECT OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND GOVERNING REGULATIONS AND MEET THE APPROVAL OF THE LOCAL JURISDICTION.
- TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS BEFORE, DURING, AND AFTER INSTALLATION. IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- COMPLETE SHOP DRAWINGS AND EQUIPMENT SUBMITTAL SHALL BE SUBMITTED AND APPROVED PRIOR TO ORDERING AND INSTALLATION OF ANY EQUIPMENT.
- FOUR SETS OF OPERATING AND MAINTENANCE MANUALS SHALL BE SUBMITTED UPON COMPLETION OF PROJECT.
- EQUIPMENT WARRANTIES, FURNISH A WRITTEN GUARANTEE AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE YEAR. GUARANTEE SHALL INCLUDE REPAIR OF DAMAGE TO, OR REPLACEMENT OF, ANY PART OF EQUIPMENT OR PREMISES CAUSED BY EQUIPMENT PROVIDED.
- DUCTWORK SHALL BE INSULATED OR LINED AS NOTED ON DRAWINGS. (WHERE APPLICABLE, ALL DUCTWORK EXPOSED ON ROOF SHALL BE INTERNALLY LINED UNLESS OTHERWISE INDICATED OR SPECIFIED). ALL DUCT SIZES ARE SHEET METAL SIZES. ALL DUCT JOINTS SHALL BE SEALED PER SPECIFICATIONS.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- AUTOMATIC FIRE DAMPER REQUIREMENTS ARE AS FOLLOWS:
 - PROVIDE AUTOMATIC FIRE DAMPERS AT ALL PENETRATIONS OF FIRE-RATED CEILINGS AND WALLS THROUGHOUT. CONTRACTOR SHALL COORDINATE WITH FIRE-RATED CEILING AREAS AND WALLS AS INDICATED ON ARCHITECTURAL DRAWINGS. THIS NOTE SHALL TAKE PRECEDENCE OVER ANY OMISSIONS ON THE DRAWINGS. SEE SPECIFICATIONS.
 - LOCATION OF FIRE-RATED CEILINGS AND WALLS ARE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- ALL HVAC EQUIPMENT AND APPLIANCES SHALL BE CERTIFIED BY THE STATE OF CALIFORNIA ENERGY COMMISSION, SHALL MEET AND COMPLY WITH STATE AND OR LOCAL ENERGY EFFICIENCY STANDARDS (E.E.S).
- HVAC CONTROL SYSTEMS SHALL MEET ALL THE REQUIREMENT OF ENERGY EFFICIENCY STANDARDS (E.E.S), SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED TO ENSURE THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER.

DRAWING SCHEDULE

- | | |
|------|------------------------------|
| M0.1 | MECHANICAL NOTES AND LEGENDS |
| M0.2 | MECHANICAL SCHEDULES |
| M1.0 | MECHANICAL FLOOR PLANS |
| M1.1 | MECHANICAL FLOOR PLANS |
| M1.2 | MECHANICAL ROOF PLAN |
| M2.0 | MECHANICAL DETAILS |
| M2.1 | MECHANICAL DETAILS |
| M2.2 | MECHANICAL DETAILS |
| M3.0 | MECHANICAL SPECIFICATIONS |
| M3.1 | MECHANICAL SPECIFICATIONS |
| M4.0 | ENERGY COMPLIANCE |
| M4.1 | ENERGY COMPLIANCE |

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PROJECT NAME:

BEHAVIORAL
HEALTH CLINIC
REMODEL

COMMERCIAL

PROJECT ADDRESS:

120 N. 8TH STREET,
EL CENTRO,
CA 92243

PROJECT #: 481-1

REVISION SCHEDULE

△	ISSUE	DATE
△	INITIAL SUBMITTAL	-
△	1st SUBMITTAL	11-7-2022

HEALTH CLINIC

M0.1

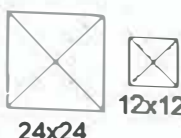


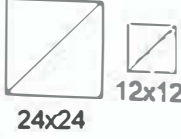


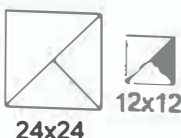


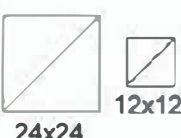

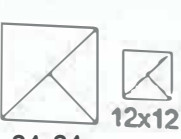

MECHANICAL NOTES AND LEGENDS

Copy Protection

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ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.

TITLE 24 NOTES:
1) EXTERIOR WALL INSULATION (TO REMAIN); R-13
2) ROOF INSULATION: R-38 (VERIFY AT SITE IS LESS THAN R-38 INCREASE ROOF INSULATION TO R-38).
3) SUPPLY AND RETURN DUCT INSULATION (NEW DUCTS) R-4.2
4) EXTERIOR WINDOW U-VALUES (NEW WINDOWS) 0.3
5) EXTERIOR WINDOWS SHGC VALUES (NEW WINDOWS) 0.23

DIFFUSER, REGISTER, AND GRILLE SCHEDULE						
TAG	SYMBOL	MANUFACTURER & MODEL	NECK SIZE	POSITION	CFM RANGE	REMARKS
(CFM)	 	TITUS MCD (LAY-IN)	6"ø	CEILING	0-100	 MAX. FLEX CONNECTION 5' LONG WITH MVD AT EACH BRANCH CONNECTION
			8"ø		101-175	
			10"ø		176-350	
			12"ø		351-480	
			14"ø		481-700	
(CFM)	 	TITUS PAR-AA (LAY-IN)	6"ø	CEILING	0-200	 EGGCRATE TYPE
			8"ø		201-325	
			10"ø		326-425	
			12"ø		426-625	
			14"ø		626-725	
(CFM)	 		16"ø		726-825	
			18x18		826-1350	
			22x22		1351-2000	
			22x46		2001-4000	
			6x6		0-75	
(CFM)	 	TITUS 50F (GYPBOARD/HAROLD)	8x8	CEILING	76-150	
			10x10		151-250	
			12x12		251-350	
			14x14		351-475	
			16x16		476-650	
(CFM)	 		18x18		651-850	
			20x20		851-1025	
			22x22		1026-1275	
			24x24		1276-1600	
			28x28		1601-2500	
			30x30		2501-2900	
			32x32		2901-3375	
			34x34		3376-3825	

A. MODEL NUMBERS ARE TITUS UNLESS OTHERWISE NOTED

B. PROVIDE 24x24 MODULES FOR ALL DIFFUSERS LAID IN CEILING, UNLESS OTHERWISE NOTED.

C. FRAME ALL AIR DEVICES FOR APPROPRIATE CEILING TYPE

D. PROVIDE ALUMINUM FRAME FOR HARD CEILINGS IN TOILETS, JANITOR'S CLOSET AND LOCK-UP ROOM.

1. FLEXIBLE DUCTS CONNECTING THE DIFFUSERS SHALL BE FULL SIZE OF NECK DIAMETER.

2. MAXIMUM NOISE CRITERION RATING <30 DBA

3. DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE INDICATED ON PLANS.












4. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH CEILING CONSTRUCTION TYPE, COORDINATE WITH ARCHITECT

5. NECK DIAMETER SHALL BE PER MANUFACTURER

6. DEVICE SHALL BE PAINTED BY PAINTING CONTRACTOR TO MATCH ADJACENT CEILING SURFACES PER ARCHITECTURAL SPECIFICATIONS.

7. WITH DIRECTIONAL BLADES.

8. PROVIDE SUBMITTAL FOR ARCHITECTS/ ENGINEER REVIEW AND APPROVAL

SYMBOLS AND ABBREVIATIONS		
SA		SUPPLY AIR PLENUM CROSS SECTION
RA		RETURN AIR PLENUM CROSS SECTION
SAD		SUPPLY DIFFUSER, CEILING W/ 4-WAY
RAG		RETURN AIR GRILLE/REGISTER, CEILING
EAG		EXHAUST AIR GRILLE/REGISTER, CEILING
SWS		SIDE WALL SUPPLY REGISTER
SWR		SIDE WALL RETURN GRILLE
CD		CONDENSATE DRAIN
CFM	(CFM)	CUBIC FEET PER MINUTE
FD		FIRE DAMPER
FLA		FULL LOAD AMPERES
MCA		MAX. CIRCUIT AMPACITY
MOC		MAX. OVERCURRENT PROTECTION DEVICE
RLA		RATED LOAD AMPERES
HP		HORSE POWER
OSA		OUTSIDE SUPPLY AIR
TYP	(TYP)	TYPICAL DETAIL CALLOUT
UTR		UP THRU ROOF
U/C		UNDERCUT DOOR 1"
AFB/BFF		ABOVE FINISHED FLOOR/ BELOW FINISHED FLOOR
DB, EAT, LAT		DRY BULB, ENTERING AIR TEMP., LEAVING AIR TEMP.
BTU, MBH		BRITISH THERMAL UNIT, THOUSAND BTU/HR
EER, SEER		ENERGY EFFICIENCY RATING, SEASONAL ENERGY EFF. RATING
HSPF		HEATING SEASONAL PERFORMANCE FACTOR
KW		KILOWATT
		THERMOSTAT
		SMOKE DETECTOR
KEF		KITCHEN EXHAUST FAN
MUA		MAKE UP AIR

AIR HANDLING UNIT SCHEDULE																		
UNIT	MANUFACTURER & MODEL	LOCATION	CFM	OSA	EXTERNAL STATIC PRESSURE	TOTAL STATIC PRESSURE	NUMBER OF SUPPLY FANS	INPUT POWER	COOLING COIL (MBH)		HEATING COIL (MBH)	EDB/ EWB	AMB °F	NAMEPLATE			WEIGHT (LBS)	REMARKS
									SENS.	TOTAL				MCA/MOCP	FLA	V/PH		
AH-1	DAIKIN CAH006GVCM	MECHANICAL ROOM	2700	595	1.0"	2.63"	1	1.4 KW	81	-	53	60/63	112	12.5/20	10.03	208/3	950	SELECTED COILS TO MATCH SENSIBLE AND HEATING LOADS. PROVID WITH MIXING BOX, PANEL FILTER (MERV-13), DIRECT EXPANSION COIL, TWO ACCESS PANELS AND SUPPLY FAN ARRAY.
AH-2	DAIKIN CAH006GVCM	MECHANICAL ROOM	2700	672	1.0"	2.63"	1	1.4 KW	84	-	52	81/63	111	12.5/20	10.03	208/3	900	SELECTED COILS TO MATCH SENSIBLE AND HEATING LOADS. PROVID WITH MIXING BOX, PANEL FILTER (MERV-13), DIRECT EXPANSION COIL, TWO ACCESS PANELS AND SUPPLY FAN ARRAY.
AH-3	DAIKIN CAH006GVCM	MECHANICAL ROOM	2200	585	1.0"	2.61"	1	1.1 KW	70	-	50	94/67	111	12.5/20	10.03	208/3	1,100	SELECTED COILS TO MATCH SENSIBLE AND HEATING LOADS. PROVID WITH MIXING BOX, PANEL FILTER (MERV-13), DIRECT EXPANSION COIL, TWO ACCESS PANELS AND SUPPLY FAN ARRAY.

HEAT PUMP SCHEDULE														
UNIT	MANUFACTURER & MODEL	LOCATION	COOLING CAP. (MBH)		HEATING CAP. (MBH)		IEER	EER	COP	NAMEPLATE			WEIGHT (LBS)	REMARKS
			SENS.	TOTAL	MBH	TEMP				MCA/MOC	RLA	V/PH		
HP-1	DAIKIN RXTQ96XATA	MECHANICAL ROOM	-	96	103	47° F	22.5	12.6	3.5	36.3/45	23.8	208/3	525	HP-1 TO SERVE AH-1.
HP-2	DAIKIN RXTQ96XATA	MECHANICAL ROOM	-	96	103	47° F	22.5	12.6	3.5	36.3/45	23.8	208/3	525	HP-2 TO SERVE AH-2.
HP-3	DAIKIN RXTQ72XATA	MECHANICAL ROOM	-	72	73	47° F	20.7	12.7	3.3	27.6/35	15.7	208/3	425	HP-3 TO SERVE AH-3.

EXHAUST FAN SCHEDULE										
UNIT	MANUFACTURER & MODEL	LOCATION	AREA SERVED	CFM	ESP	MOTOR DATA			WEIGHT (LBS)	REMARKS
						W	V	PH		
EF-1	GREENHECK SP-APO511W	CEILING	STAFF RESTROOM	60	0.7	11	115	1	10	INSTALL WITH BDD. ENERGY START RATED FAN. CONNECT TO LIGHT SWITCH.
EF-2	GREENHECK SP-APO511W	CEILING	FAMLLY RESTROOM	60	0.7	11	115	1	10	INSTALL WITH BDD. ENERGY START RATED FAN. CONNECT TO LIGHT SWITCH.
EF-3	GREENHECK SP-APO511W	CEILING	JANITOR	60	0.7	11	115	1	10	INSTALL WITH BDD. ENERGY START RATED FAN. CONNECT TO LIGHT SWITCH.
EF-4	GREENHECK SP-APO511W	CEILING	ALL GENDER I RESTROOM	60	0.7	11	115	1	10	INSTALL WITH BDD. ENERGY START RATED FAN. CONNECT TO LIGHT SWITCH.
EF-5	GREENHECK SP-APO511W	CEILING	ALL GENDER II RESTROOM	60	0.7	11	115	1	10	INSTALL WITH BDD. ENERGY START RATED FAN. CONNECT TO LIGHT SWITCH.
EF-6	GREENHECK SP-APO511W	CEILING	ALL GENDER III RESTROOM	60	0.7	11	115	1	10	INSTALL WITH BDD. ENERGY START RATED FAN. CONNECT TO LIGHT SWITCH.
EF-7	GREENHECK SP-APO511W	CEILING	ALL GENDER IV RESTROOM	60	0.7	11	115	1	10	INSTALL WITH BDD. ENERGY START RATED FAN. CONNECT TO LIGHT SWITCH.
EF-8	GREENHECK SP-APO511W	CEILING	STORAGE	60	0.7	11	115	1	10	INSTALL WITH BDD. ENERGY START RATED FAN. CONNECT TO LIGHT SWITCH.

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BEHAVIORAL
HEALTH CLINIC
REMODEL

COMMERCIAL

PROJECT ADDRESS:

120 N. 8TH STREET,
EL CENTRO,
CA 92243

PROJECT #: 481-1

REVISION SCHEDULE		
△	ISSUE	DATE
△	INITIAL SUBMITTAL	-
△	1st SUBMITTAL	11-7-2022

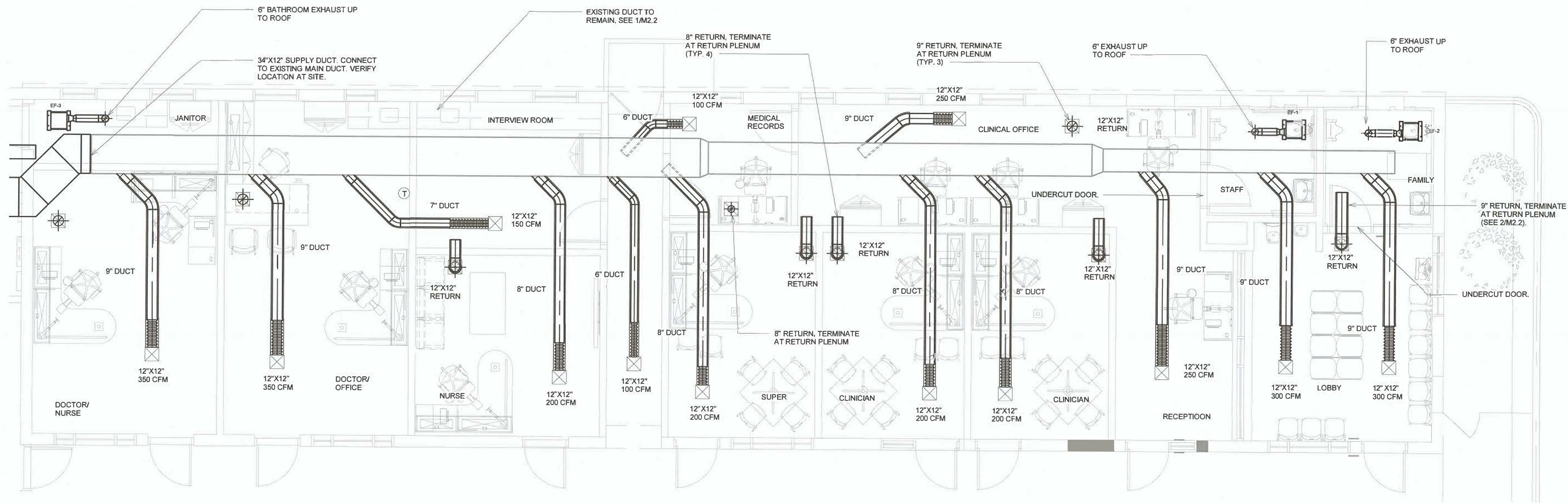
HEALTH CLINIC

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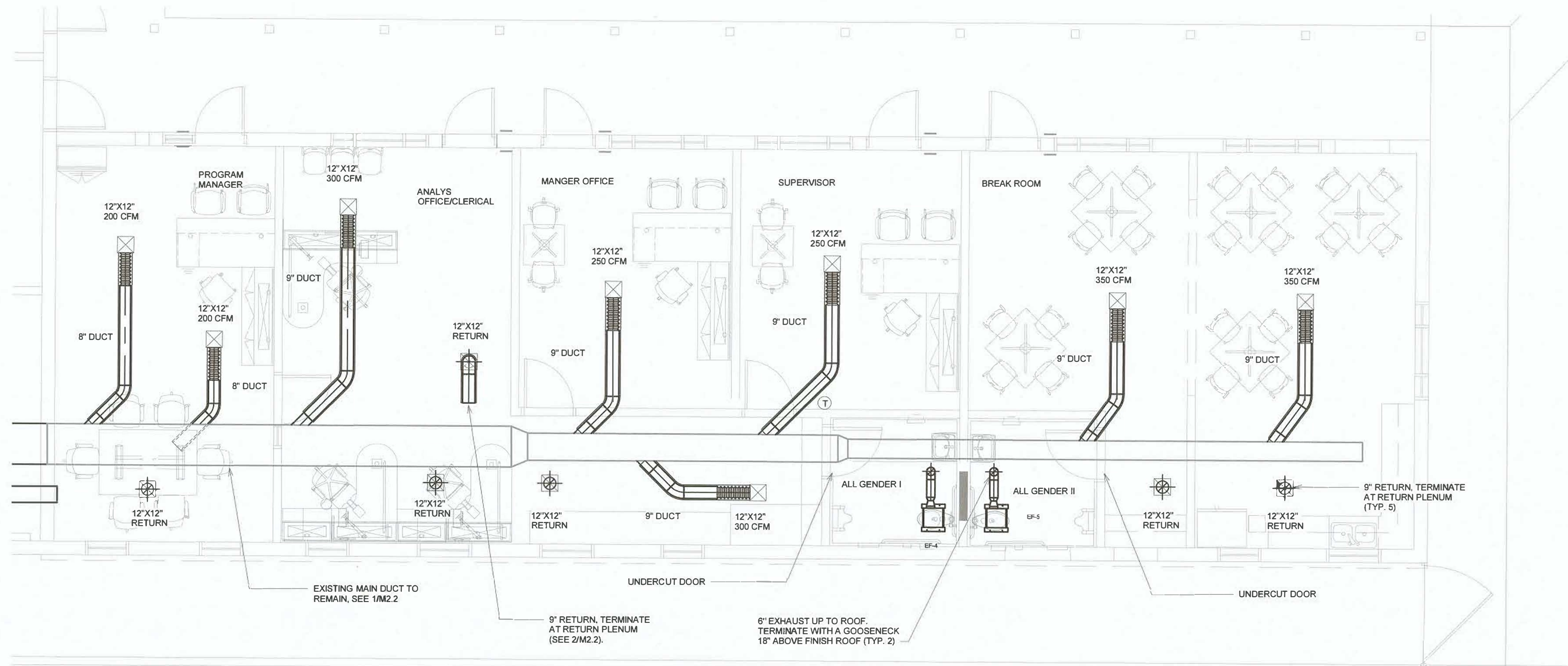
MECHANICAL SCHEDULES

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① MECHANICAL PLAN I
1/4" = 1'-0"



② MECHANICAL PLAN IV
1/4" = 1'-0"

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HEALTH CLINIC

M1.0

MECHANICAL FLOOR PLANS

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MECHANICAL FLOOR PLANS

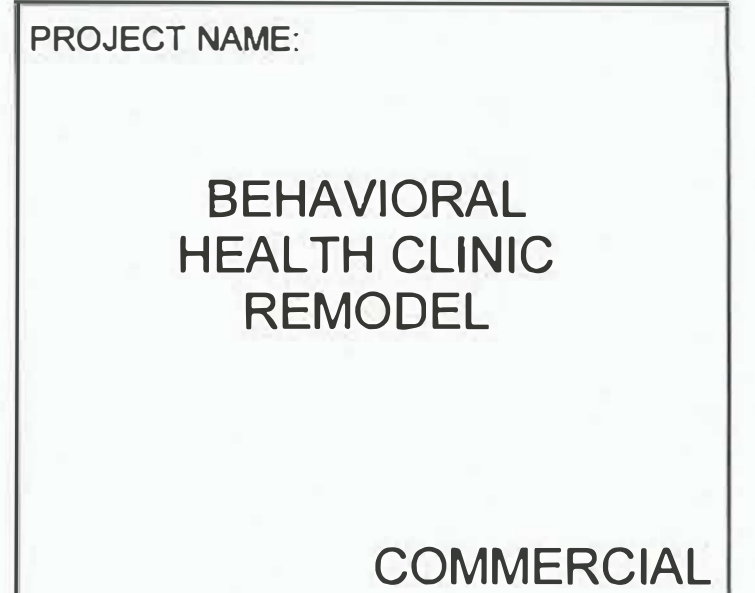
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① MECHANICAL PLAN II
1/4" = 1'-0"

**ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING “APPROVED EQUAL OR
BETTER” STATEMENT.**



PROJECT ADDRESS:

120 N. 8TH STREET,
EL CENTRO,
CA 92243

PROJECT #: 481-1

[illegible]

HEALTH CLINIC

M1.2

MECHANICAL ROOF PLAN

Copy Protection

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① MECHANICAL ROOF PLAN
1/8" = 1'-0"

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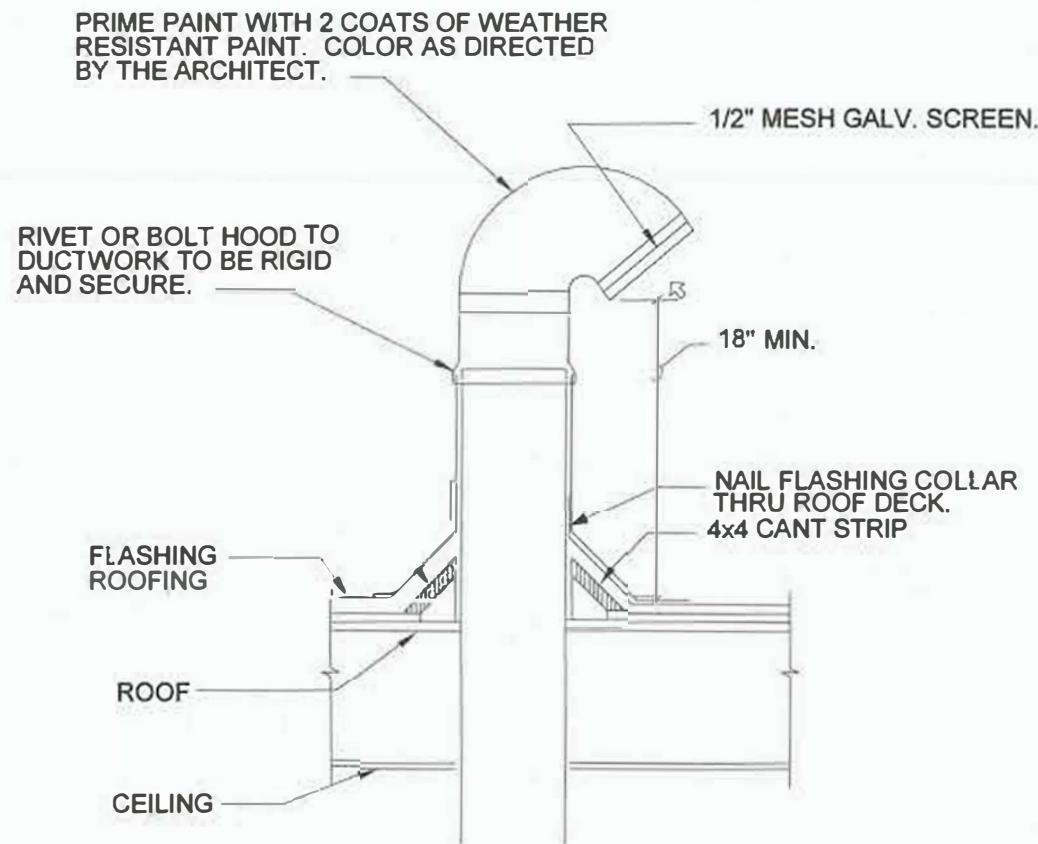
Submital Data Sheet
6 Ton, 230V VRV IV X HP
RXY0726ATJA

FEATURES

- Industry's first 2 phase Heat Pump VRV system to integrate with commercial HVAC systems.
- Design flexibility to a range from one single to dual module or dual to four module without change in ductwork size and cost.
- Variable Refrigerant Temperature (VRT) control allows the VRV IV to control its 25% refrigerant in capacity cooling efficiency compared to other dual VRV Heat pump systems.
- Heat recovery and pre-cooling coils, saving energy functional capacity and configuration.
- Assembled in the US to increase flexibility and reduce lead times.
- Multi-technology design provides efficient protection and temperature control for the heat recovery and pre-cooling coils.
- Standard Limited Warranty: 10-year limited parts warranty.
- It is also compatible with ability to program controls off site using configuration tool.

BENEFITS

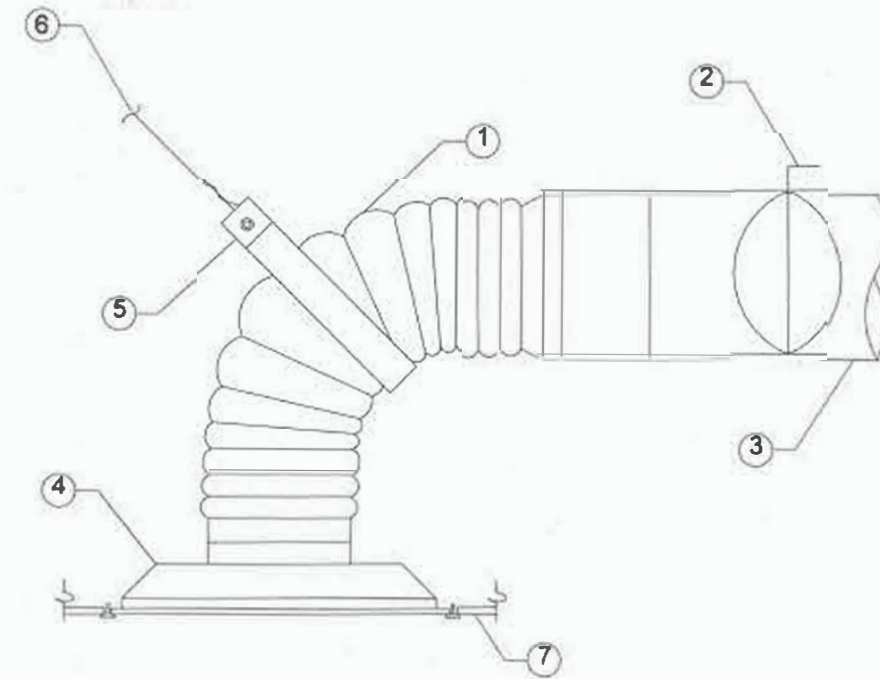
- Modular and lightweight, smaller flexibility in system layout and installation.
- Thermal transfer technology (lower temperature efficiency) using cast steel condenser and evaporator coils for better control.
- Corrosion resistance 100% zinc coated Ductal PFC steel for heat exchanger.
- Design flexibility with long pipe lengths up to 3,280 ft and 100 ft vertical sections between indoor units.
- Choice of gas liquid or heat pump heating for optimum operational costs based on utility cost.
- Engineered to operate under on-phase and instant full load commercial building.
- Four round condenser coils energy savings with variable Refrigerant Temperature (VRT) control.
- Full performance, efficient outdoor fan operation to help increase energy efficiency and flexibility when system is off.



④ M6 ROOF GOOSENECK
NTS

NOTES:

- ACOUSTICAL FLEX. DUCT 5'-0" MAX. LENGTH
- MANUAL VOLUME DAMPER WITH LOCKING QUADRANT AT BRANCH TAKE OFF
- INSULATED PRE-FAB, SPIRAL ROUND DUCT. REFER TO FLOOR PLANS FOR SIZES
- DIFFUSER, SEE PLANS FOR TYPE
- 1-1/2" WIDE SHEET METAL STRAP
- SECURE WIRE TO STRUCTURE ABOVE
- CEILING



① M1 CEILING DIFFUSER
NTS

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Page 1 of 3

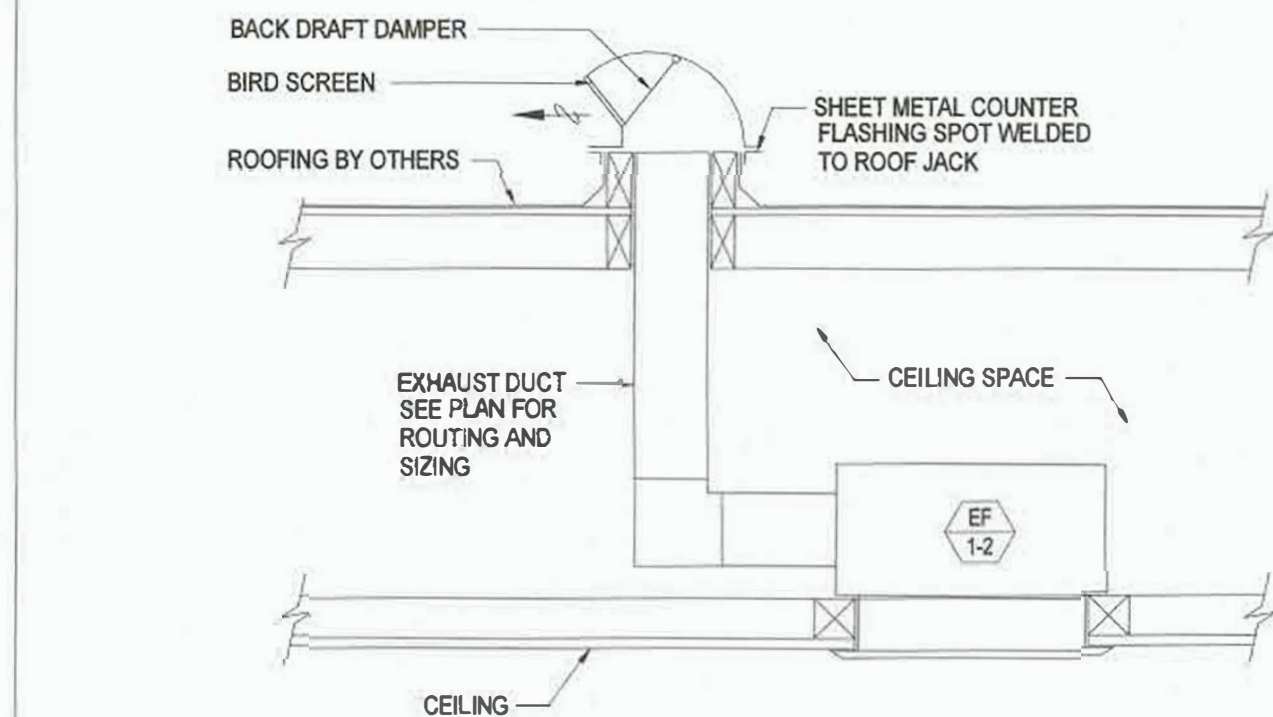


Submital Data Sheet
6 Ton, 230V VRV IV X HP
RXY0726ATJA

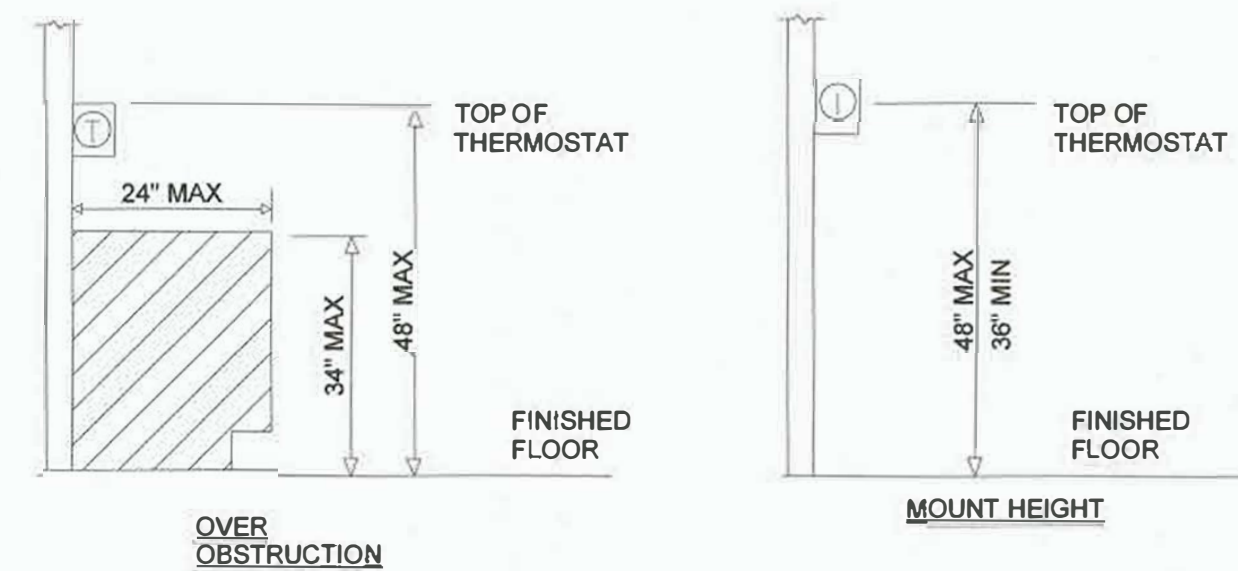
PERFORMANCE			
Outdoor Unit Model No.	RXY0726ATJA	Outdoor Unit Name	6 Ton, 230V VRV IV X HP
Type	Heat Pump	Unit Configuration	
Rated Cooling Conditions	Indoor (T: 80°F DB/67°F WB) Outdoor (T: 80°F DB/67°F WB)	Rated Heating Conditions	Indoor (T: 80°F DB/67°F WB) Outdoor (T: 80°F DB/67°F WB)
Rated Flow Rate (GPM)			
Rated Height Difference (ft)			
Rated Cooling Capacity (Btu/h)	66,000	Rated Heating Capacity (Btu/h)	73,000
Heat Cooling Capacity (Btu/h)	73,000	Heat Heating Capacity (Btu/h)	81,000
Cooling Input Power (kW)	4.82	Heating Input Power (kW)	6.46
SEER (Non-ducted/Ducted)	14.72/12.76	Heating COP (Non-ducted/Ducted)	3.7/3.3
SEER (Non-ducted/Ducted)	23.80/20.70	Heating COP (HP (Non-ducted/Ducted)	3.4/2.3
OUTDOOR UNIT (RUMUP)			
Power Supply (V/Hz/Ph)	208-228 / 60 / 3	Compressor Stage	Inverter
Power Supply Connection	L1, L2, L3 Ground	Capacity Control Range (%)	50 - 100
Max. Circuit Amps (MCA)	27.8	Capacity Index Limit	35.0 - 95.0
Max. Overcurrent Protection (MOP) (A)	35	Airflow Rate (PM (CFM))	654
Max. Starting Current (MCA)		Gas Pipe Connection (inch)	3/4
Rated Load Amps (RLA)	15.7	Liquid Pipe Connection (inch)	3/8
Dimensions (Height) (in)	66-11/16	WT. Pressure Connection (inch)	
Dimensions (Width) (in)	36-11/16	WT. Equalizing Connection (inch)	
Dimensions (Depth) (in)	20-3/16	Sound Pressure (in) (dB(A))	66
Net Weight (lb)	435	Sound Power Level (dB(A))	79
		Max. No. of Indoor Units	12

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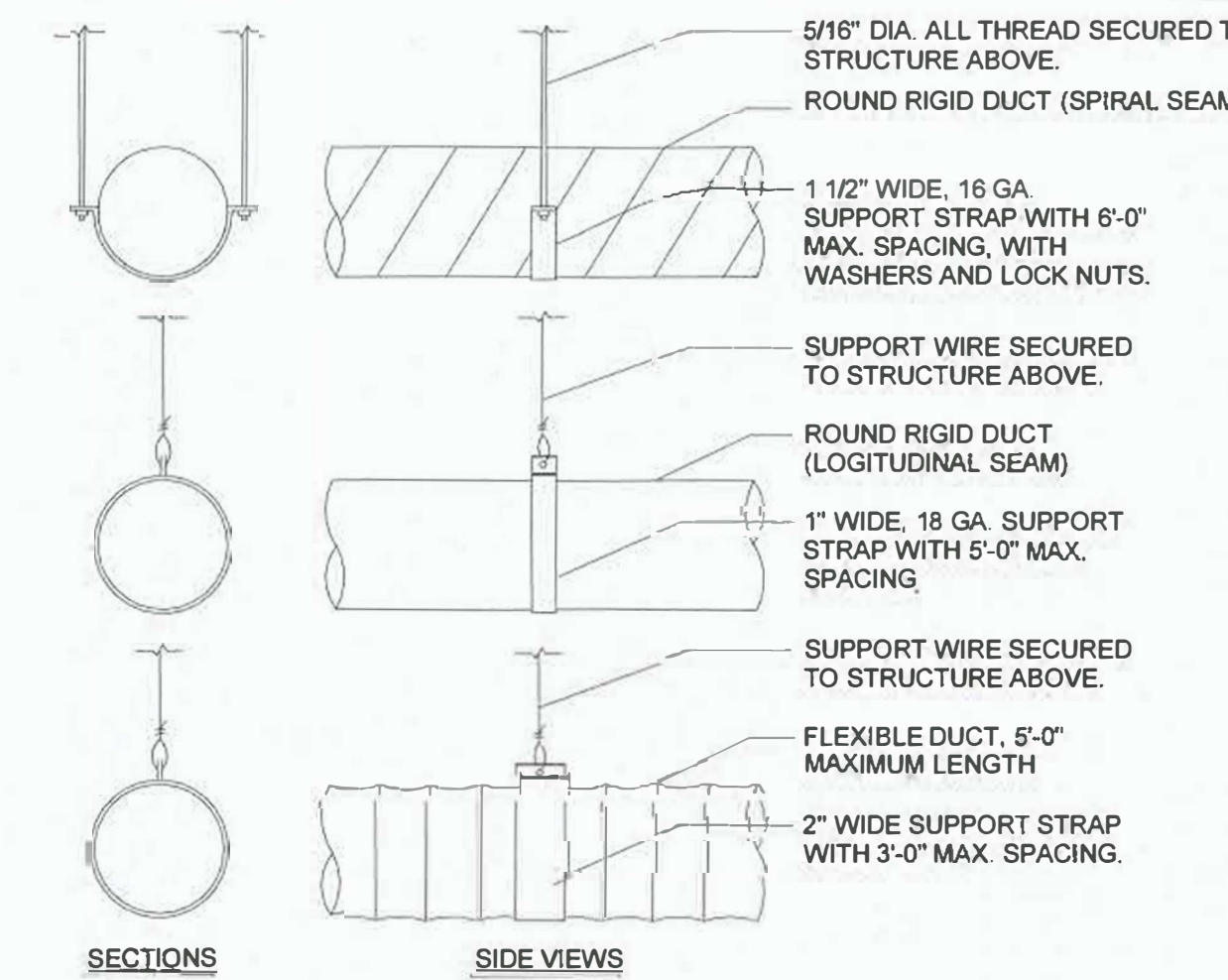
⑥ HEAT PUMP 3-CUT SHEETS
NTS



⑤ M13 CEILING EXHAUST FAN
NTS



② M2 THERMOSTAT MOUNTING
NTS



③ M3 ROUND DUCT SUPPORT
NTS

WINSTON ENGINEERING INC

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West Hollywood, CA 90069
951-902-6600
info@winstoneng.com
www.winstoneng.com



PROJECT NAME:

BEHAVIORAL
HEALTH CLINIC
REMODEL

COMMERCIAL

PROJECT ADDRESS:

120 N. 8TH STREET,
EL CENTRO,
CA 92243

PROJECT #: 481-1

REVISION SCHEDULE

ISSUE	DATE
INITIAL SUBMITTAL	-
1st SUBMITTAL	11-7-2022

HEALTH CLINIC

M2.0

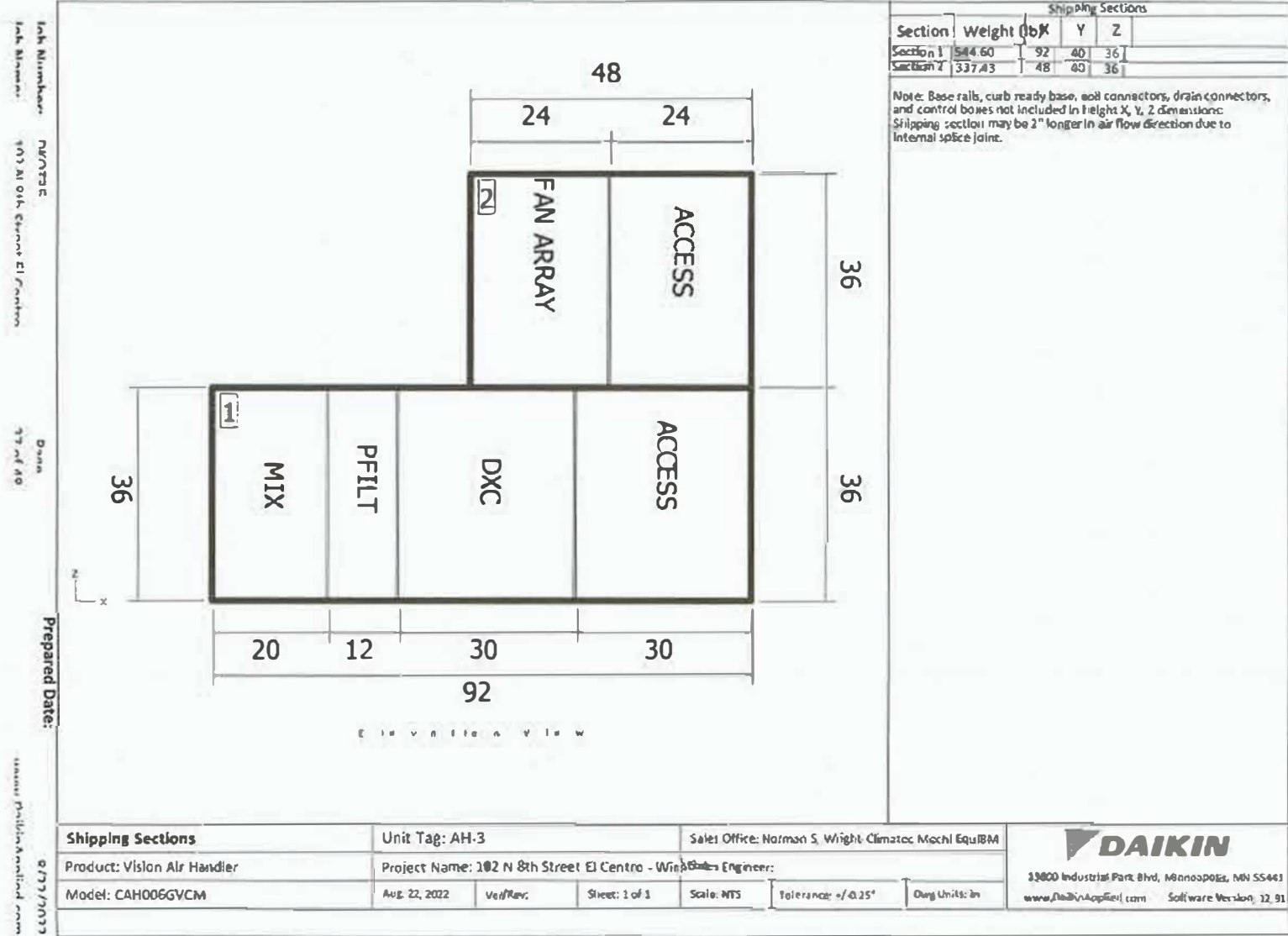
MECHANICAL DETAILS

Copy Protection

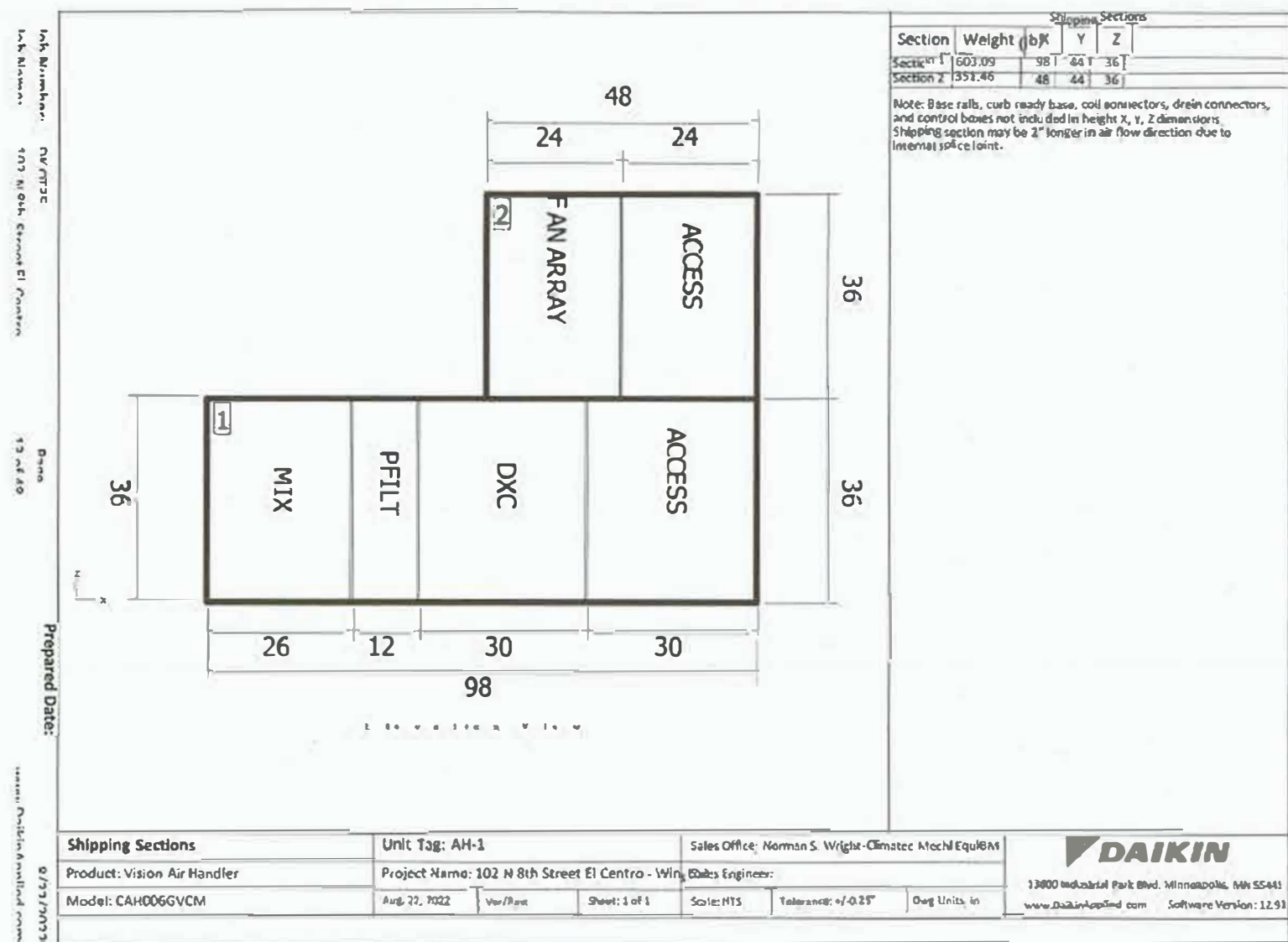
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Drawing for AH-3



Drawing for AH-1

DAIKIN

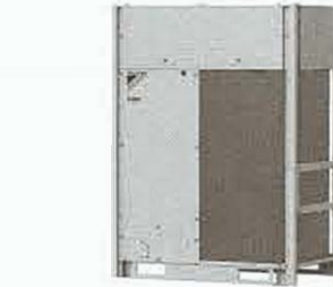
Submittal Data Sheet
8 Ton, 230V VRV IV X HP
RAYO6KATJA

FEATURES

- Includes 2 phase Pump VRV system to integrate with existing gas furnace.
- Change flexibility to replace system from single to dual duct or dual to triple duct without changes to existing main pipe sizes.
- Variable Refrigerant Temperature (VRT) control allows the VRV to be reduced up to 25% of refrigerant is needed to maintain efficiency compared to standard Carrier VRT and gas furnace systems.
- New remote sensor enables quick access to multi-functional display and configuration interface.
- Available in 14 US to increase flexibility and reduce lead times.
- Multi-functional display provides real-time pressure and temperature, allowing for need to convert gauges during regular maintenance check.
- Standard Limited Warranty - 10 year limited parts warranty.
- Easy commissioning with ability to program settings all via using configuration tool.

BENEFITS

- Absolute weight/lightest - enables flexibility in system layout and installation.
- Integrated inverter technology offers maximum efficiency during part load conditions and provides precise load match zone control.
- Compressor resistance 1000W and 100V rated. DAIKIN P.E. Star 60 heat exchanger.
- Durable flexibility with long piping lengths up to 3,300 ft. total and 100 ft. vertical separation between indoor units.
- Choice of gas furnace or heat pump heating for applying operational needs based on utility cost.
- Designed to connect easily on project & smart & not commercial building.
- Your read control and energy savings with Variable Refrigerant Temperature technology (VRT).
- Field performance is maintained under low pressure to help maintain zone air distribution in the building when the system is off.



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DAIKIN

Submittal Data Sheet
8 Ton, 230V VRV IV X HP
RAYO6KATJA

PERFORMANCE

Outdoor Unit Model No.	RAYO6KATJA	Outdoor Unit Name	8 Ton, 230V VRV IV X HP
Type	Heat Pump	Unit Configuration	
Rated Cooling Condition:	Indoor (T DB/WS): 80/67 Outdoor (T DB/WS): 95/75	Rated Heating Condition:	Indoor (T DB/WS): 70/60 Outdoor (T DB/WS): 47/40
Rated Pipe Length:			
Rated Height Difference (ft)			
Rated Cooling Capacity (Btu/h)	92,800	Rated Heating Capacity (Btu/h)	103,000
Rated Cooling Capacity (kW)	96,000	Rated Heating Capacity (kW)	108,000
Cooling Input Power (kW)	6.31	Heating Input Power (kW)	8.82
SEER (Non-Ducted) (ft/h)	18.0/112.50	Heating COP (Non-Ducted) (ft/h)	4.2/5.5
SEER (Non-Ducted) (ft/h)	21.37/122.50	Heating COP (11F Non-Ducted) (ft/h)	2.8/2.5

OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph)	208-230/1/3	Compressor Stage	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Current Range (kA)	18 - 100
Max. Circuit Ampere MCA (A)	36.3	Capacity Rules Limit	68.8 - 126.0
Max. Overcurrent Protection (MOP) (A)	45	Airflow Rate (ft³/CFM)	5827
Max. Starting Current (MCA) (A)		Gas Pipe Connection (inch)	7/8
Rated Load Ampere (RLA) (A)	27.23.6	Liquid Pipe Connection (inch)	3/8
Dimensions (HxWxD) (in)	69-11/16	Hx Pressure Connection (inch)	
Dimensions (HxWxD) (in)	48-7/8	Hx Refrigerant Connection (inch)	
Dimensions (HxWxD) (in)	30-9/16	Ground Pressure (psi) (MBAR)	51
Net Weight (lb)	625	Sound Power Level (dBA)	61
		Max. No. of Indoor Units	16

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BEHAVIORAL
HEALTH CLINIC
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EL CENTRO,
CA 92243

PROJECT #: 481-1

REVISION SCHEDULE	
ISSUE	DATE
INITIAL SUBMITTAL	11-7-2022
1st SUBMITTAL	

HEALTH CLINIC

M2.1

MECHANICAL DETAILS

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3 AIR HANDLING UNIT 3 - CUT SHEETS
NTS

2 AIR HANDLING UNITS 1 & 2 - CUT SHEETS
NTS

1 HEAT PUMPS 1 & 2 - CUT SHEETS
NTS



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BEHAVIORAL
HEALTH CLINIC
REMODEL

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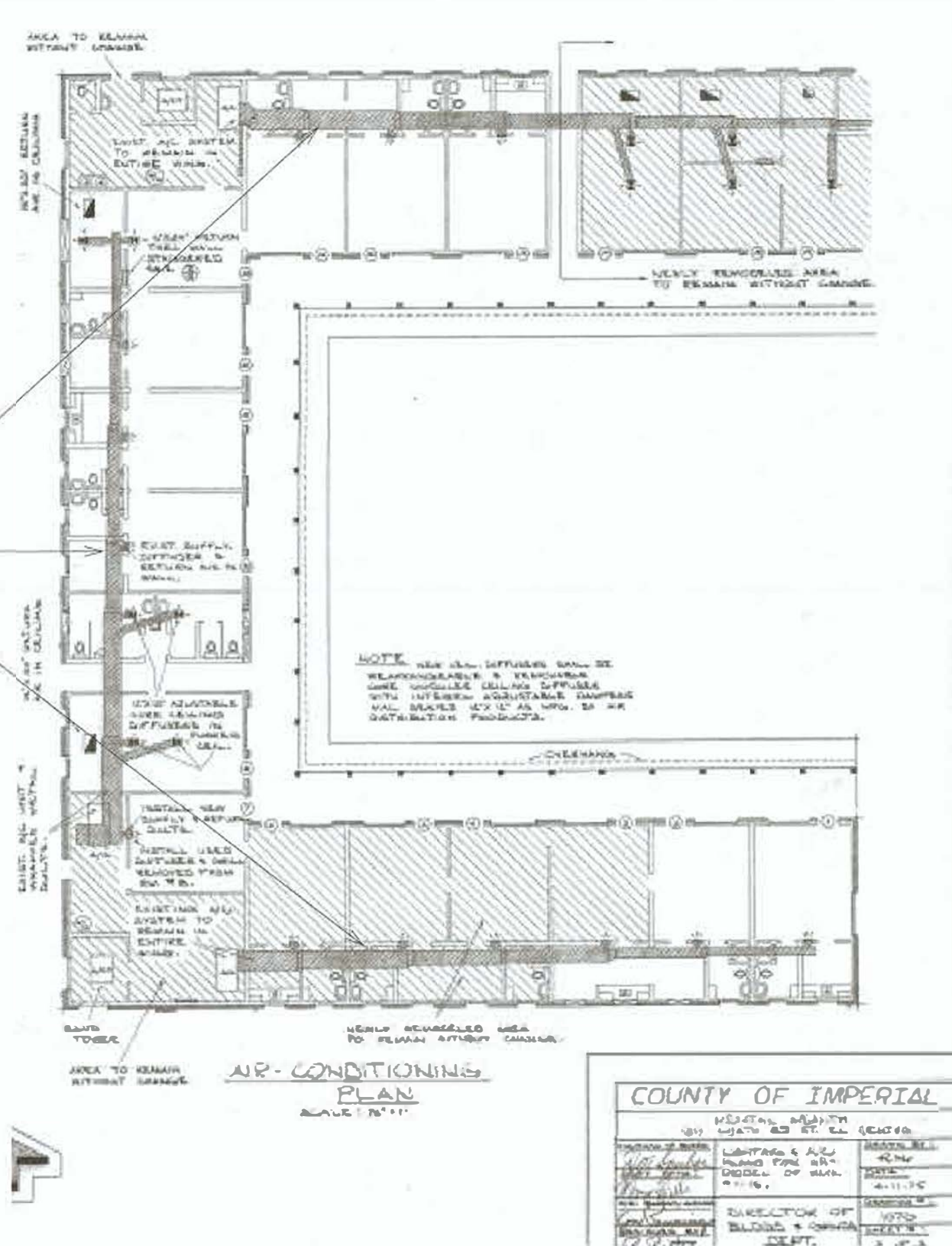
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MECHANICAL DETAILS

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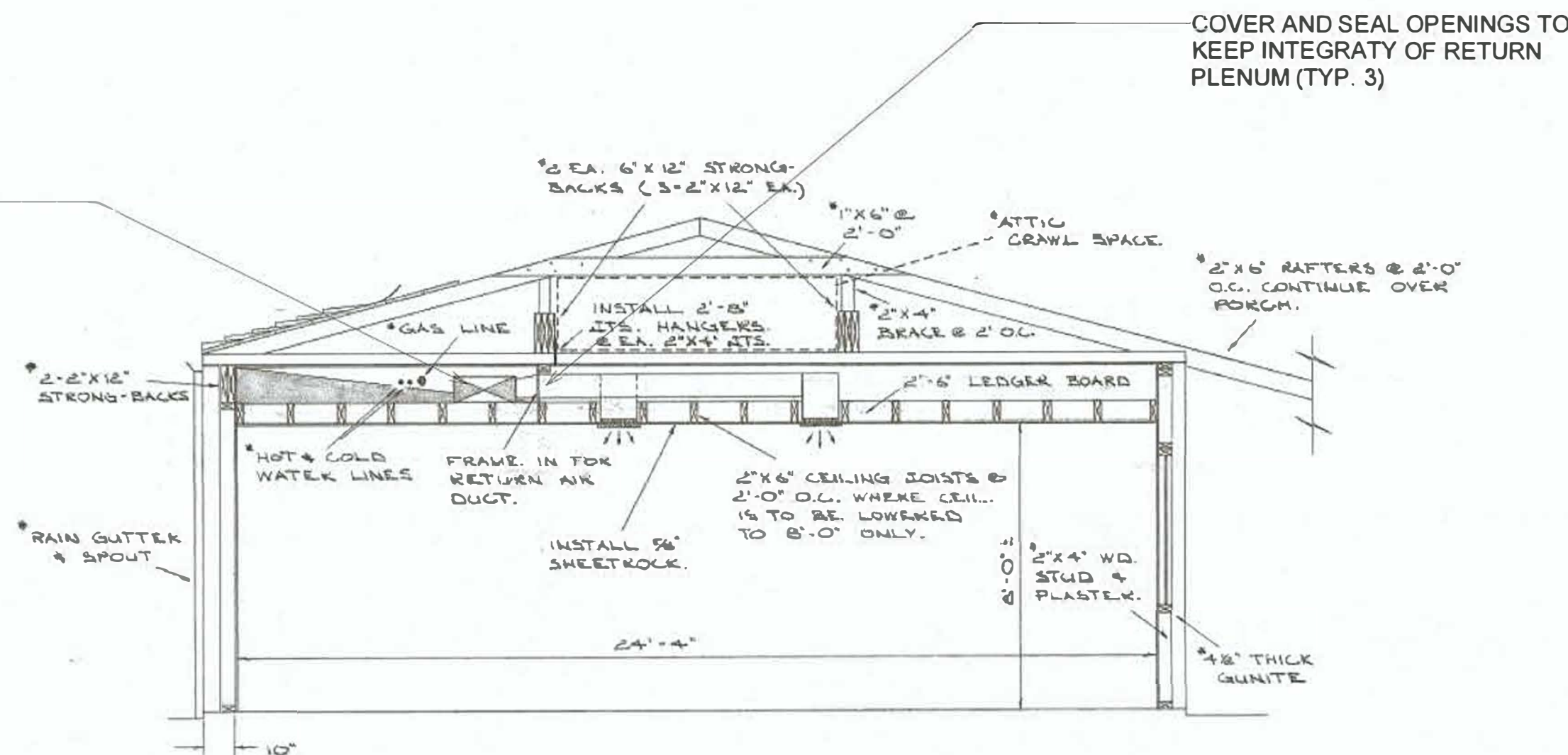
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EXISTING SUPPLY MAIN DUCTS TO
REMAIN. VERIFY LOCATION AND
SIZES AT SITE



1 EXISTING SUPPLY MAIN DUCTS TO REMAIN
NTS

EXISTING SUPPLY MAIN DUCTS
INSIDE RETURN PLENUM.



2 EXISTING RETURN PLENUM TO REMAIN
NTS

ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
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BETTER" STATEMENT.

PART 1 - GENERAL

- 1.01 DESCRIPTION
- A. SECTIONS 15000 THRU 15899 PERTAIN TO HEATING VENTILATING AND AIR CONDITIONING WORK. THIS SECTION APPLIES TO AND GOVERNS ALL HVAC SECTIONS.
 - B. REFER TO OTHER DIVISIONS FOR CONTINUATION OF EXTERIOR AND ALLIED WORK.
 - C. FIELD PAINTING IS SPECIFIED IN DIVISION 9.
- 1.02 PERMITS, FEES, CODES, ORDINANCES, AND REGULATIONS
- A. OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS AND CONNECTION FEES REQUIRED BY GOVERNING BODIES IN CONNECTION WITH THE WORK. DELIVER CERTIFICATES OF INSPECTION TO THE ARCHITECT-ENGINEER.
 - B. ALL WORK SHALL COMPLY WITH GOVERNING CODES, ORDINANCES, AND REGULATIONS OF CITY, COUNTY AND STATE HAVING JURISDICTION, AND THE NATIONAL ELECTRICAL CODE, MECHANICAL CODE, AND REQUIREMENTS OF BOARD OF HEALTH.
- 1.03 QUALITY ASSURANCE
- A. INDUSTRY STANDARDS AND CODES: UNLESS MODIFIED BY THESE SPECIFICATIONS, THE DESIGN, MANUFACTURE, TESTING AN METHOD OF INSTALLING ALL MATERIALS, APPARATUS AND EQUIPMENT SHALL CONFORM TO THE FOLLOWING:
 - 1. ARI CODE FOR REFRIGERATION APPARATUS
 - 2. ANSI B9.1 SAFETY CODE FOR MECHANICAL REFRIGERATION.
 - 3. STANDARDS OF NATIONAL FIRE PROTECTION ASSOCIATION
 - 4. SMACNA
 - 5. ASHRAE
- 1.04 SUBMITTALS
- A. SHOP DRAWINGS: SUBMIT ON ALL MATERIALS, PRODUCTS, EQUIPMENT AND SYSTEMS AS SPECIFIED UNDER HVAC SECTION IN THIS DIVISION IN ACCORDANCE WITH THE GENERAL CONDITIONS.
 - B. PRODUCT DATA: SUBMIT ON ALL MATERIALS, PRODUCTS, AND EQUIPMENT UNLESS OTHERWISE SPECIFIED OR ACKNOWLEDGED IN WRITING.
 - C. SAMPLES: BUILT WHEN SPECIFIED OR REQUESTED.
 - D. TEST AND BALANCE REPORT: SUBMIT AT FINAL INSPECTION
 - E. OPERATION AND MAINTENANCE MANUALS: SUBMIT COPIES IN COMPLIANCE WITH SECTION, OPERATIONS, AND MAINTENANCE MANUALS
- 1.05 JOB CONDITIONS
- A. PROTECT MATERIALS, APPARATUS AND EQUIPMENT FROM DAMAGE, MOISTURE, DIRT, DEBRIS, AND WORK OF OTHER TRADES.
 - B. USE OF PAPER, CARDBOARD OR OTHER FLIMSY MATERIAL WILL NOT BE PERMITTED. REPLACE DAMAGED PROTECTIVE MATERIALS IMMEDIATELY. DO NOT INSTALL DAMAGED MATERIALS AND EQUIPMENT; REMOVE FROM THE SITE.
- 1.06 RECORD DOCUMENTS
- A. REFER TO GENERAL CONDITIONS AND DIVISION 1 FOR REQUIREMENTS CONCERNING RECORD DOCUMENTS.
 - B. FURNISH ARCHITECT-ENGINEER WITH ONE SET OF ACCURATELY MARKED BLUE-LINE COPIES OF THE DRAWINGS, INDICATING ALL CHANGES FROM THE CONTRACT DRAWINGS AND ALL HVAC WORK AND CONTROLS AS INSTALLED.
- 1.07 GUARANTEES AND SERVICE
- A. REFER TO GENERAL CONDITIONS FOR GUARANTEE.
 - B. WHERE EXTENDED GUARANTEES ARE CALLED FOR HEREIN, FURNISH THREE COPIES TO BE INSERTED IN OPERATION AND MAINTENANCE MANUALS
 - C. ALL PREVENTATIVE MAINTENANCE AND NORMAL SERVICE WILL BE PERFORMED BY THE OWNERS MAINTENANCE PERSONNEL AFTER FINAL ACCEPTANCE OF THE WORK. THIS SHALL NOT ALTER THE CONTRACTORS GUARANTEE OF THE WORK IN ANY WAY.
 - D. ALL LABELS SHALL BE SECURELY AFFIXED.

PART 2 - PRODUCTS

2.01 GENERAL

- A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW SYSTEMS, SHALL BE PROVIDED COMPLETE, AND EACH SYSTEM AS NEW THEREOF FAIL TO MEET PERFORMANCE REQUIREMENTS, NECESSARY REPLACEMENTS, ALTERATIONS OR REPAIRS, AS REQUIRED BY THE ARCHITECT-ENGINEER, SHALL BE MADE TO BRING PERFORMANCE UP TO SPECIFIED REQUIREMENTS OF BUILDING.
- B. WHERE MULTIPLE ITEMS OF EQUIPMENT OF MATERIALS ARE REQUIRED, THEY SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER
- C. BEFORE ORDERING ANY EQUIPMENT, THE SIZE OF ALL EQUIPMENT SHALL BE CHECKED TO EASILY FIT SPACES ALLOTTED ON THE DRAWINGS.
- D. INSERTS PIPE SLEEVES, SUPPORTS AND ANCHORAGE OF AIR CONDITIONING EQUIPMENT SHALL BE PROVIDED IS SPECIFIED HEREIN, WHERE SUCH ITEMS ARE TO SET OR EMBEDDED IN CONCRETE MASONRY OR SIMILAR WORK, THE ITEMS SHALL BE FURNISHED AND LAYOUT MADE AT THE PROPER TIME FOR THE SETTING OR EMBEDMENT THEREOF SO AS TO CAUSE NO DELAY IN THE WORK.
- E. WHOLE AND IN ALL ITS PARTS SHALL FUNCTION CORRECTLY UP TO THE SPECIFIED CAPACITY. SHOULD A SYSTEM OR ANY PART PIPING ASSEMBLIES OF EQUIPMENT SHOWN ON THE DRAWINGS AS DIAGRAMMATIC. ALL PIPING AND APPURTENANCES REQUIRED FOR THE PROPER OPERATION OF ALL EQUIPMENT SHALL BE PROVIDED.

2.02 MANUFACTURERS NAMES AND CATALOG NUMBERS

- A. SPECIFIED REFERENCES HAVE BEEN MADE TO ONE OR MORE MANUFACTURERS NAMES AND MODEL OR CATALOG NUMBERS.
- B. THIS DOES NOT INDICATE THAT THE MATERIAL AND EQUIPMENT SPECIFIES IS NECESSARILY AND "OFF THE SHELF" ITEM; REQUIREMENTS FOR SPECIFIC FINISHES, MATERIALS OR OTHER MODIFICATIONS MAY INTRODUCE VARIANCES FROM MANUFACTURERS STANDARDS. CONTRACTOR SHALL ASCERTAIN THAT SUCH MODIFICATIONS ARE FULLY CONSIDERED.

2.03 DIAGRAM, NAMEPLATES, AND LABELS

- A. EACH MAJOR COMPONENT OF EQUIPMENT SHALL HAVE THE MANUFACTURERS NAME, ADDRESS AND CATALOG NUMBER ON A PLATE SECURELY AFFIXED IN A CONSPICUOUS PLACE. THE NAMEPLATE OF A DISTRIBUTING AGENT WILL NOT BE ACCEPTED.
- B. ALL PIECES OF EQUIPMENT, VALVES, STARTERS, DISCONNECTS, AND ALL PNEUMATIC AND ELECTRICAL CONTROL INSTRUMENTS AND APPARATUS SHALL BE IDENTIFIED WITH 1/16" THICK BLACK LAMINATED PLASTIC NAMEPLATES, WITH 3/16" HIGH WHITE LAMINATED LETTERS. SIMILAR AND LIKE EQUIPMENT SHALL BE DESIGNATED WITH NUMERICAL SUFFIX (EXAMPLE: THERMOSTAT, T1). THE NAMEPLATE SHALL COINCIDE WITH ITEMS APPEARING ON "DIAGRAMS.
- C. PROVIDE A LABEL FOR THE MECHANICAL SYSTEM STATING: "INSTALLATION BY" (NAME, ADDRESS, AND PHONE NUMBER OF CONTRACTOR)
- D. LETTERS SHALL BE 1/4" HIGH AND LOCATED IN A CONSPICUOUS PLACE IN THE MECHANICAL ROOM.

PART 3 - EXECUTION

3.01 INSTALLATION AND WORKMANSHIP

- A. THE WORK SHALL BE PERFORMED BY QUALIFIED MECHANICS AND ALL MATERIALS, APPARATUS AND EQUIPMENT SHALL BE INSTALLED IN NEAT, WORKMANLIKE MANNER. ANY MATERIAL, APPARATUS OR EQUIPMENT WHICH, IN THE OPINION OF THE ARCHITECT-ENGINEER, IS IMPROPERLY INSTALLED SHALL BE REMOVED AND REINSTALLED IN AN APPROVED MANNER AT NO ADDITIONAL COST TO THE OWNER.
- B. THE WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES. WHERE THE WORK IS DEPENDENT UPON WORK OF OTHER TRADES OR WORK ALREADY IN PLACE, SUCH OTHER WORK AND WORK PLACE SHALL BE EXAMINED AND SHALL BE IN PROPER CONDITION AND STATE OF COMPLETION BEFORE CONTINUING THE INSTALLATION
- C. THE INSTALLATION OF THE SYSTEM SHALL, IN GENERAL, BE IN ACCORDANCE WITH THE DRAWINGS WITH REGARDS TO LOCATION OF EQUIPMENT, DUCTS, PIPES, AND THE LIKE. PIPING DUCTWORK INDICATED SHALL BE FOLLOWED AS ACCURATELY AS ACTUAL CONSTRUCTION WILL PERMIT AND ANY DEVIATIONS THERE FROM SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT- ENGINEER, CONTRACTOR SHALL FURNISH DRAWINGS SHOWING PROPOSED CHANGES.

3.02 EARTHWORK AND DEWATERING

- A. PERFORM IN ACCORDANCE WITH DIVISION 2.

3.03 CUTTING AND PATCHING

- A. LAYOUT OPENINGS FOR CUTTING BY OTHER TRADES AS REQUIRED.
- B. CUTTING OF STEEL, CONCRETE OR ANY OTHER STRUCTURAL PART MUST BE APPROVED IN WRITING BY ARCHITECT-ENGINEER PRIOR TO CUTTING.

3.04 WATERPROOFING

- A. DO NOT CUT OR PENETRATE WATERPROOFED SURFACES, OR WATERPROOFING MEMBRANES, WITHOUT FIRST MAKING ARRANGEMENTS FOR REPAIR BY METHOD APPROVED BY ARCHITECT-ENGINEER.

3.05 ELECTRICAL WORK

- A. POWER WIRING FROM CONTROLLERS TO MOTORS IS SPECIFIED IN DIVISION 16. ING FROM PANELS TO MOTOR CONTROLLERS
- B. MOTOR STARTERS NOT SPECIFIED TO BE PROVIDED WITH THE MOTORS AT THE FACTORY ARE SPECIFIED IN DIVISION 16.
- C. SUBMIT WIRING DIAGRAMS OR APPROVAL AND PROVIDE APPROVED DIAGRAMS SO THAT THE ELECTRICAL WORK MAY BE PROPERLY ACCOMPLISHED.
- D. ELECTRICAL CONTROL WIRING FOR CONNECTION OF TEMPERATURE CONTROLLERS, PUSH BUTTONS, INTERLOCKS IN MOTOR CONTROLLERS, AND LIKE ITEMS SPECIFIED IN THE CONTROL SECTIONS(S) IN THIS DIVISION. FURNISH ALL EQUIPMENT WITH COMPLETE INTERNAL WIRING.
- E. ELECTRICAL WORK SPECIFIED IN THIS DIVISION SHALL CONFORM TO APPLICABLE PROVISIONS OF DIVISION 16. ALL CONTROL WIRING SHALL BE IN CONDUIT.
- F. PROVIDE MOTORS CONFORMING TO CHARACTERISTICS SHOWN ON ELECTRICAL DRAWINGS.

3.06 SUPPORTS FOR PIPING AND EQUIPMENT

- A. SUPPORT FOR PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS AND NOT FROM METAL DECK AND SLAB ASSEMBLIES.

3.07 ACCESS DOORS (ACCESS PANELS)

- A. PROVIDE ACCESS REQUIRED FOR MAINTENANCE, ADJUSTMENT, REMOVAL AND REPAIR OF VALVES, CONTROLS, DAMPERS, EQUIPMENT AND LIKE ITEMS FURNISHED HERE-UNDER.
- B. PROVIDE ACCESS DOORS CONFORMING TO REQUIREMENTS OF SECTION ACCESS DOORS (ACCESS PANELS), IN DIVISION 8. PANELS SHALL BE LOCATED TO MAKE ALL ITEMS EASILY ACCESSIBLE.

3.08 CLEAN UP

- A. REFER TO GENERAL CONDITIONS FOR CLEANING UP
- B. CLEAN ALL MATERIALS AND EQUIPMENT OF DIRT, DUST, PAINT, SPOTS AND STAINS, SOIL MARKS AND OTHER FOREIGN MATTER

3.09 FINAL INSPECTION

- A. NOTICE TO THE ARCHITECT-ENGINEER THAT THE WORK IS READY FOR FINAL INSPECTION. THE CONTRACTOR SHALL:
 - 1. SUBMIT TEST AND BALANCE REPORT AND COMPLETE REQUIREMENTS AS NOTED
 - 2. SUBMIT LETTER FROM CONTROL MANUFACTURER CERTIFYING THAT CONTROLS HAVE BEEN CHECKED FOR OPERATION AND CALIBRATION, AND THAT SYSTEM IS OPERATING AS INTENDED.
 - B. CONTRACTOR SHALL FURNISH NECESSARY MECHANICS TO OPERATE SYSTEM, MAKE NECESSARY ADJUSTMENTS AND ASSIST WITH FINAL INSPECTION
- 3.10
- A. THE CONTRACTOR SHALL INCLUDE THE COST OF THE SERVICES OF QUALIFIES INSTRUCTOR(S) TO INSTRUCT THE OWNER'S OPERATING PERSONNEL IN THE OPERATION, ADJUSTMENT, CARE AND MAINTENANCE OF ALL HVAC EQUIPMENT AND SYSTEMS.
 - B. INSTRUCTION SHALL BE PERFORMED AT A TIME APPROVED BY THE OWNER AND AFTER ALL HVAC EQUIPMENT AND SYSTEMS ARE INSTALLED, COMPLETE, ADJUSTED AND OPERATING TO SPECIFIED REQUIREMENTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT-ENGINEER WHEN INSTRUCTIONS WILL BE GIVEN.
 - C. QUALIFICATIONS OF INSTRUCTORS SHALL BE SUBJECT TO APPROVAL OF THE OWNER AND EQUIPMENT MANUFACTURER.
 - D. ADDITIONAL REQUIREMENTS CONCERNING OPERATION AND MAINTENANCE OF MECHANICAL EQUIPMENT AND SYSTEMS MAY BE SPECIFIED IN OTHER SECTIONS.
 - E. TWO COPIES OF ACKNOWLEDGMENT OF ALL REQUIRED INSTRUCTIONS TO OWNERS OPERATING PERSONNEL, SIGNED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE, SHALL BE SUBMITTED TO THE ARCHITECT-ENGINEER PRIOR TO SUBMITTING APPLICATION FOR FINAL PAYMENT. AN ADDITIONAL COPY OF THIS ACKNOWLEDGMENT IS REQUIRED IN EACH COPY OF OPERATION AND MAINTENANCE MANUALS REQUIRED IN THE SECTION, OPERATION AND MAINTENANCE MANUALS.

15005 OPERATION AND MAINTENANCE MANUALS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. FURNISH THREE COPIES OF COMPLETE OPERATION AND MAINTENANCE MANUALS TO THE ARCHITECT-ENGINEER FOR APPROVAL AND FOR THE OWNER, ON ALL EQUIPMENT AND SYSTEMS. THE MANUALS SHALL BE BOUND IN HARD BACK, THREE RING LOOSE LEAF BINDERS

PART 2 - PRODUCTS

2.01 MANUAL CONTENTS

- A. TITLE SHEET WITH JOB NAME, AND THE NAMES, ADDRESSES AND PHONE NUMBERS OF THE CONTRACTOR, SUBCONTRACTOR, CONTROL SUBCONTRACTOR, RELATED CONTRACTORS AND MATERIAL AND EQUIPMENT SUPPLIERS.
- B. TABLE OF CONTENTS
- C. A COPY OF ACKNOWLEDGMENT OF INSTRUCTION TO THE OWNERS OPERATING PERSONNEL IN THE OPERATION OF ALL MECHANICAL EQUIPMENT AND SYSTEMS, SIGNED BY THE OWNER OF HIS AUTHORIZED REPRESENTATIVE.
- D. TYPEWRITTEN OPERATING INSTRUCTIONS FOR THE OWNERS PERSONNEL DESCRIBING HOW TO STOP AND START EACH PIECE OF EQUIPMENT; HOW TO SET THE TEMPERATURE CONTROL SYSTEM FOR NORMAL OPERATION AND NORMAL RESTARTING PROCEDURES, CAUTION AND WARNING NOTICES.
- E. APPROVED SHOP DRAWINGS, PRODUCT DATA AND PARTS AND MAINTENANCE BOOKLET FOR EACH ITEM OF MATERIAL AND EQUIPMENT FURNISHED UNDER DIVISION 15000
- F. RECORD DRAWINGS OF ALL SYSTEMS INCLUDING ELECTRICAL AND CONTROL DIAGRAM
- G. TEST AND BALANCE REPORT
- H. COPIES OF CERTIFICATION OF INSPECTION
- I. GUARANTEES, INCLUDING EXTENDED GUARANTEES

PART 3 - EXECUTION

- A. DELIVER THE MANUALS TO THE OWNER PRIOR TO SUBMITTING APPLICATION FOR FINAL PAYMENT.

15305 DUCTWORK, LOW PRESSURE, GALVANIZED STEEL

PART 1 - GENERAL

1.01 QUALITY ASSURANCE

- A. DUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "HVAC DUCT CONSTRUCTION STANDARDS" PUBLISHED BY SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA)

1.02 JOB CONDITIONS

- A. INSPECT THE DRAWINGS AND VERIFY EXISTING CONDITIONS IN THE FIELD. REPORT CONFLICTS BEFORE STARTING FABRICATION

PART 2 - PRODUCTS

2.01 DUCT MATERIAL

- A. WEIGHTS AND GAGES SHALL BE IN ACCORDANCE WITH TABLE 1 OF "HVAC DUCT CONSTRUCTION STANDARDS" PUBLISHED BY SMACNA. DUCT MATERIAL SHALL BE GALVANIZED STEEL.

2.02 SPLITTERS

- A. SPLITTERS SHALL BE 18 GAGE GALVANIZED STEEL WITH HORIZONTAL AND VERTICAL DIMENSIONS SUFFICIENT TO CLOSE OFF AIR TO BRANCH.
- B. PROVIDE VENTLOCK NO. 607 END BEARINGS AND VENTLOCK NO. 690 DAMPER ASSEMBLY

2.03 VOLUME DAMPERS

- A. VOLUME DAMPERS SHALL BE18 GAGE STEEL; SINGLE BLADE UP TO 8"x8", OPPOSED BLADE ON ALL DUCTS OVER 8"x8"
- B. PROVIDE VENTLOCK NO. 607 END BEARINGS AND VENTLOCK NO. 614 SELF LOCKING REGULATOR
- C. DAMPER RODS SHALL BE 1/2" SQUARE BARS WITH BLADES SECURELY RIVETED TO BAR

2.04 TURNING VALVES

- A. ALL SQUARE AND RECTANGULAR ELBOWS SHALL CONTAIN TITUS NO. AG-225 TURNING VANES.

2.05 HANGERS

- A. IN ACCORDANCE WITH CHAPTER IV OF SMACNA

2.06 FLEXIBLE CONNECTIONS

- A. FLEXIBLE CONNECTIONS SHALL BE PROVIDED FOR EACH AIR HANDLING DEVICE TO PREVENT TRANSMISSION OF VIBRATIONS.
- B. MAKE FLEXIBLE CONNECTION A MINIMUM OF 4 INCHES WIDE OF VENTGLASS AS MADE BY VENTFABRICS, INC.
- C. BRAIDED COPPER BRIDGE STRAP FOR INSTALLATION ACROSS FLEXIBLE CONNECTIONS SHALL BE THOMPSON LIGHTING PROTECTION, INC NO. 288

PART 3 EXECUTION

3.01 INSTALLATION

- A. GENERAL: SPLIT, DIVIDE OR TURN DUCTS AS NECESSARY TO AVOID OBSTRUCTIONS AND, IN SUCH CASES, PROVIDE AIR STREAM DEFLECTORS AND INCREASE SIZE OF DUCT TO AN EQUIVALENT AREA
- B. SPLITTERS: RIGIDLY ATTACH SPLITTERS TO PIVOT ROD AND OPERATING LINKAGE. SET DAMPER ASSEMBLY ON RAISED INSULATED BASE ON INSULATED DUCTWORK.
- C. VOLUME DAMPERS: SUPPLY AND MAKE UP AIR DUCTWORK IN CONCEALED SPACES. SET REGULATOR ON RAISED BASE ON INSULATED DUCTWORK. MARK END OF DAMPER ROD TO SHOW DAMPER POSITION
- D. FLEXIBLE CONNECTIONS: SECURE FLEXIBLE CONNECTIONS TO DUCT AND UNIT WITH GALVANIZED STEEL STRAPS HOLDING THE MATERIAL IN FORMED GALVANIZED STEEL CHANNELS. INSTALL BRAIDED COPPER BRIDGES STRAP ACROSS ALL FLEXIBLE CONNECTIONS.
- E. TEST PLUGS: PROVIDE SQUARE HEAD TYPE TEST PLUGS AS REQUIRED FOR INSERTION OF TEST APPARATUS. PROVIDE A RING AND A REMOVABLE INSULATION PLUG WHERE DUCTS ARE INSULATED.
- F. PAINTING: PAINT INTERIOR OF DUCTWORK FLAT BLACK WHERE VISIBLE THROUGH GRILLES AND REGISTERS.
- G. SEALING: DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH TABLE 1-2 FOR "SEAL CLASS B"
- H. REMOVE ALL DUCTWORK FOUND TO VIBRATE, CHATTER OR PULSATE AND REPLACE WITH NEW DUCTWORK.

15319 DUCTWORK, LOW PRESSURE, FLEXIBLE

1.01 DESCRIPTION

- A. PROVIDE WHERE INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN, FACTORY FABRICATED AND PRE-INSULATED FLEXIBLE DUCTS.

1.02 QUALITY ASSURANCE

- A. FLEXIBLE DUCTS INCLUDING INSULATION AND SEALANTS, SHALL CONFORM TO THE REQUIREMENTS OF NFPA 90A AND UL STANDARD 181 FOR CLASS 1 DUCTS.
- B. PERFORMANCE DATA SHALL BE BASED ON TEST PERFORMED IN ACCORDANCE WITH AIR DIFFUSION COUNCIL FLEXIBLE AIR DUCT TEST CODE FD72.

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PROJECT NAME:

BEHAVIORAL
HEALTH CLINIC
REMODEL

COMMERCIAL

PROJECT ADDRESS:

120 N. 8TH STREET,
EL CENTRO,
CA 92243

PROJECT #: 481-1

REVISION SCHEDULE		
△	ISSUE	DATE
△	INITIAL SUBMITTAL	-
△	1st SUBMITTAL	11-7-2022

HEALTH CLINIC

M3.0

MECHANICAL SPECIFICATIONS

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ALL PROPRIETARY PRODUCTS/
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FOLLOWING “APPROVED EQUAL OR
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15319 DUCTWORK, LOW PRESSURE, FLEXIBLE

- 1.03 SUBMITTALS
- A. SUBMIT SHOP DRAWINGS AND MANUFACTURERS PRODUCT DATA INCLUDE COMPLETE ENGINEERING AND TEST DATA AND CLEARLY INDICATE ALL CONSTRUCTION FEATURES AND ACCESSORY ITEMS.

PART 2 - PRODUCTS

2.01 LOW PRESSURE FLEXIBLE DUCTWORK

- A. LOW PRESSURE FLEXIBLE DUCTWORK SHALL CONSIST OF CORROSION RESISTANT SPRING STEEL HELIX BONDED TO A GLASS REINFORCED NEOPRENE SLEEVE INSULATED WITH A MINIMUM OF 1" THICK. 1LB DENSITY FIBERGLASS INSULATION WHICH IN TURN COVERED WITH AN OUTER VAPOR BARRIER OF FIBER REINFORCED FOIL SCRIM-KRAFT LAMINATE.
- B. INSULATION SHALL HAVE A TERMINAL CONDUCTIVITY (K) NO GREATER THAN 0.25 AT 75 DEGREES F.
- C. DUCT FOR LOW VELOCITY SYSTEM CONNECTORS SHALL HAVE A WORKING PRESSURE OF NOT LESS THAN 1-1/2" OF WATER GAGE AND A MAXIMUM OPERATING TEMPERATURE OF NOT LESS THAN 250 DEGREES F.

2.02 DUCT CONNECTORS

- A. WHERE FLEXIBLE DUCTS CONNECT TO LOW PRESSURE DUCTS TO FORM RUNOUTS TO INDIVIDUAL OUTLETS, PLENUMS OR LOW PRESSURE TERMINALS, PROVIDE FACTORY FABRICATED FITTINGS COMPLETE WITH AND MANUALS BALANCING DAMPERS HAVING LOCKING QUADRANTS WHERE LOW PRESSURE DUCTS ARE INTERNALLY INSULATED THE CONNECTOR SHALL BE FURNISHED WITH AIR EXTENSION TO PROJECT THROUGH AND PROTECT THE INSULATION. FOR CONNECTION TO EQUIPMENT, AUXILIARY SLEEVES SHALL BE PROVIDED TO ALLOW AT LEAST 2 INCHES OF SURFACE FOR CLAMPING OF FLEXIBLE DUCTWORK. SLEEVES SHALL BE SCREWED OR BOLTED TO EQUIPMENT LIP FRAME.

2.03 CLAMPS

- A. PROVIDE GALVANIZED SPRING STEEL CLAMPS OR PANDUIT STRAPS AT CONNECTION TO DUCT FITTINGS OR DEVICES.

2.04 MANUFACTURER

- A. FLEXIBLE DUCTWORK AND COMPONENTS SHALL BE AS MANUFACTURED BY GENERAL ENVIRONMENTAL CORPORATION OR APPROVED EQUAL

PART 3 - EXECUTION

3.01 INSTALLATION

- A. INSTALL DUCT CONNECTORS TO LOW PRESSURE DUCTS USING MANUFACTURER TEMPLATE FOR ALL HOLES AND SECURE THE CONNECTOR WITH SHEET METAL SCREWS HAVING FIRST APPLIED FOSTERS 30-02 DUCT SEALANT TO THE ADJOINING SURFACES. DO NOT PRESSURIZE THE SYSTEM FOR 48 HOURS.
- B. STRETCH NEW DUCT WHEN REMOVING IT FROM CARTONS WHERE IT MAY HAVE BEEN SHIPPED IN A COMPRESSED STATE.
- C. USE THE MINIMUM LENGTH OF FLEXIBLE DUCT REQUIRED TO MAKE THE SPECIFIC CONNECTION UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. THE MAXIMUM DEVELOPED LENGTH OF FLEX DUCT IS 8'-0"
- D. AVOID SHARP BENDS. USE MINIMUM INSIDE BEND RADIUS EQUAL TO 1/2 THE INSIDE DIAMETER OF THE DUCT.
- E. SUPPORT HORIZONTAL DUCT RUNS WITH HANGERS MAXIMUM OF 3'-0" ON CENTER. USE 3/4 INCH OR WIDER GALVANIZED STRAP HANGER MATERIAL
- F. ALLOW THE FLEXIBLE DUCT TO EXTEND STRAIGHT AWAY FROM CONNECTORS FOR A FEW INCHES PRIOR TO INITIATING ALL BENDS
- G. MAKE ALL CONNECTIONS OF FLEXIBLE DUCT TO RIGID DUCT OR TERMINALS AS FOLLOWS:
1. APPLY FOSTERS 30-02 SEALANT TO THE INSIDE OF THE FLEXIBLE DUCT TO DEPTH OF 3 INCHES
 2. SLIDE THE FLEXIBLE DUCT OVER THE CONNECTOR AND WRAP WITH MINIMUM OF TWO REVOLUTIONS OF REINFORCED FOIL DUCT TAPE STARTING ABOUT TWO INCHES BACK FROM END OF FLEXIBLE DUCT AND SEALING OVERLAP WITH LAST STRAP.
 3. PLACE A CLAMP OR STRAP OVER THE TAPED END AND SECURE FIRMLY
 4. REPAIR ALL DAMAGE TO VAPOR BARRIER WITH FOSTERS 35-00 REINFORCED WITH 4 INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTERS 35-00

15450 AIR DISTRIBUTION EQUIPMENT

PART 1 - GENERAL

1.01 DESCRIPTION

- A. AIR DISTRIBUTION DEVICES SHALL BE PROVIDED TO DELIVER THE INDICATED VOLUME OF SUPPLY AIR WITHOUT EXCEEDING THE AVAILABLE THROW AND NC RATING AS FOLLOWS:
1. KITCHEN: NC-35
 2. DINING, ASSEMBLY, LOBBY, OFFICES: NC-30

1.02 SUBMITTALS

- A. SHOP DRAWINGS: INDICATE LOCATIONS, SPACING AIR VOLUME AND TYPE OF EACH DEVICE
- B. PRODUCT DATA: MANUFACTURERS CATALOG CUTS AND PRODUCT DESCRIPTION INCLUDING AIR QUANTITY, PATTERN, THROW, PRESSURE DROP, NC RATINGS, FINISH, DIMENSIONS AND COMPLETE CONSTRUCTION DETAILS AND MATERIALS.

PART 2 - PRODUCTS

2.01 DIFFUSERS GRILLES AND REGISTERS

- A. DIFFUSERS, GRILLES, AND REGISTERS SHALL BE AS MANUFACTURED BY TITUS, ANEMOSTAT, KRUEGER OR APPROVED EQUAL.
- B. FOR MODEL NUMBERS AND TYPES SEE AIR DISTRIBUTION SCHEDULE ON DRAWING
- C. DIFFUSERS, GRILLES, AND REGISTERS SHALL BE OF THE SURFACE, FLUSH OR LAY IN TYPE CORRESPONDING TO THE TYPE OF CEILING IN WHICH THEY ARE LOCATED
- D. INTERIOR OF DIFFUSERS, GRILLE, OR REGISTER FACE PANEL SHALL BE BAKED ENAMEL, OFF WHITE COLOR.

2.02 MOUNTING SCREWS

- A. WHERE MOUNTING SCREWS ARE REQUIRED IN AIR DISTRIBUTION DEVICES, THEY SHALL BE FINISHED TO MATCH THE ADJACENT SURFACE OF THE DEVICES

2.03 GASKETS

- A. SUPPLY AND RETURN GRILLES AND REGISTERS WHICH ARE SURFACE MOUNTED SHALL BE PROVIDED WITH SPONGE RUBBER GASKETED FRAMES TO PREVENT SMUDGING

PART - 3 EXECUTION

3.01 INSTALLATION

- A. INSTALL WHERE SHOWN ON DRAWINGS
- B. DIFFUSERS, REGISTERS, AND FITTINGS SHALL BE SECURELY ATTACHED TO FINISH SURFACES, OR STRUCTURAL MEMBERS BEHIND FINISH SURFACES.
- C. LAY-IN DIFFUSERS MOUNTED IN ACOUSTICAL TILE CEILINGS SHALL BE RIGIDLY MOUNTED, ABOVE THE FACE PANEL, TO THE CEILING SUSPENSION SYSTEM

15802 HVAC INSULATION GENERAL

PART 1 - GENERAL

1.01 DESCRIPTION

- A. THIS SECTION GOVERNS ALL HVAC INSULATION

1.02 SUBMITTALS

- A. SUBMIT PRODUCT DATA COVERING THERMAL, PERMEABILITY AND FIRE PERFORMANCE CHARACTERISTICS OF ALL INSULATION MATERIAL, ADHESIVES AND FINISHES. DATA SHALL BE CLEARLY MARKED TO HOW INTENDED USE, THICKNESS, FINISHES, ADHESIVES AND APPLICATION TECHNIQUES.

PART 2 - EXECUTION

2.01 INSTALLATION

- A. INSULATION SHALL NOT BE INSTALLED UNTIL TESTING PROCEDURES HAVE BEEN COMPLIED WITH ALL SURFACES AND HAVE BEEN CLEANED FREE OF DIRT AND GREASE AND ARE COMPLETELY DRIED.
- B. PROTECT ADJACENT SURFACES, EQUIPMENT AND PREMISES FROM DROPPING OF COATINGS ADHESIVES AND FINISHES
- C. REMOVE ALL EXCESS MATERIALS AND DEBRIS FROM BOTH EXPOSED AND CONCEALED SO THAT THESE AREAS ARE COMPLETELY CLEAN.

15841 INSULATION, LOW PRESSURE DUCT

PART 1 - GENERAL

1.01 DESCRIPTION

- A. ALL LOW PRESSURE DUCT SYSTEMS, 2 INCHES WATER GAGE OR LESS, SHALL BE INSULATED
- B. ALL APPLICABLE REQUIREMENTS OF THE SECTION HVAC INSULATION, GENERAL, SHALL APPLY TO THIS SECTION

1.02 EQUIVALENT MATERIALS

- A. MATERIALS OTHER THAN THOSE SPECIFIED WILL BE CONSIDERED FOR APPROVAL EQUAL.

PART 2 - PRODUCTS

2.01 INSULATION

- A. EXTERNAL INSULATION SHALL BE 1-1/2" THICK, 2.0LB DENSITY, (K= .125), SCHULLER TYPE S MALLETT, FSK SPIN GLASS OR APPROVED EQUAL WITH EMBOSSED ALUMINUM FOIL FACING

2.02 ADHESIVES, MASTIC, SEALANTS

- A. ADHESIVE SHALL BE FOSTERS 85-20. STUD WELD PINS SHALL BE SEALED WITH FOSTERS 30-36 ADHESIVE
- B. WIDE GLASS FABRIC

PART 3 - EXECUTION

3.01 INSTALLATION

- A. ALL SUPPLY AND RETURN AIR DUCTWORK
- B. AIR SUPPLY DIFFUSER BACKS AND NECKS:
1. ALL AIR SUPPLY DIFFUSERS BACKS AND NECKS SHALL BE INSULATED WITH 1/2" THICK, 3/4LB DENSITY, MANVILLE R-SERIES SMALLITE, OR APPROVED EQUAL FIBERGLASS BLANKET INSULATION. HAVING A CONDUCTANCE (K) NO GREATER THAN .31. ADHERE INSULATION TO THE DUCT AS SPECIFIED BELOW.

15885 CONTROLS, ELECTRIC

PART 1 - GENERAL

1.01 DESCRIPTION

- A. THE WORK CONSISTS OF INSTALLING CONTROLS FOR THE HVAC SYSTEM AS ON THE DRAWINGS.

1.02 SUBMITTALS

- A. PROVIDE SUBMITTAL CONSISTING OF COMPLETE CONTROL DIAGRAMS FOR THE SYSTEM WITH CONSTRUCTION DETAILS AND ENGINEERING DATA SHEETS ON ALL SYSTEM COMPONENTS

1.03 ELECTRICAL

- A. ELECTRICAL WORK AND MATERIALS ASSOCIATED WITH THE CONTROL SYSTEM SHALL BE INSTALLED AS WORK OF THIS SECTION BUT IN ACCORDANCE WITH DIVISION 16.
- B. POWER WIRING IS SPECIFIED UNDER DIVISION 16 AND SHOWN ON ELECTRICAL DRAWINGS.
- C. ELECTRICAL CONTROL WIRING CONDUIT AND FITTINGS ASSOCIATED WITH THE SPACE TEMPERATURE AND HUMIDITY CONTROL INCLUDING INTERLOCKING WITH MOTOR CONTROLLERS, CONTROL ACCESSORIES AND APPURTENANCES ARE TO BE PROVIDED UNDER THIS SECTION. CONTROL WIRING SHALL BE IN CONDUIT.

PART 2 - PRODUCTS

2.01 ELECTRIC THERMOSTATS

- A. THERMOSTAT SHALL BE HONEYWELL, CARRIER, LENNOX AS OR SPECIFIED IN THE DRAWINGS.
- B. THERMOSTAT SHALL HAVE MANUAL HEATING COOLING CHANGEOVER SWITCH TO CONTROL OPERATION OF THE HEATING AND COOLING ON ALL AIR CONDITIONING UNITS.
- C. THERMOSTATS SHALL HAVE LOCKABLE COVERS SECTION 15990 TESTING, ADJUSTING AND BALANCING.

2.02 SMOKE DETECTION FAN SHUT DOWN

- A. SMOKE DETECTOR SHALL BE AS SPECIFIED IN THE DRAWINGS OR AN APPROVED EQUAL AS REQUIRED.
- B. REMOTE ALARM INDICATOR FOR DUCT MOUNTED SMOKE DETECTOR SHALL BE SPECIFIED IN THE DRAWINGS.
- C. SMOKE DETECTOR SHALL BE POWERED AS SPECIFIED IN DRAWINGS OR AS REQUIRED

PART 3 - EXECUTION

3.01 ELECTRIC ROOM THERMOSTATS

- A. SHALL BE ALL MOUNTED AND INSTALLED ON A COMMON BASE PLATE.

15890 TESTING, ADJUSTING, AND BALANCING

1.01 SPECIAL NOTICE

- A. EACH CONTRACTOR SHALL READ ALL RELEVANT DOCUMENTS, BECOME FAMILIAR WITH THE JOB, SCOPE OF WORK, TYPE OF GENERAL CONSTRUCTION AND THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. EACH CONTRACTOR SHALL ALSO FAMILIARIZE HIMSELF WITH THE PURPOSE FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED SHALL BECOME COGNIZANT OF ALL THE DETAILS INVOLVED. EACH CONTRACTORS SHALL COORDINATE HIS WORK WITH THAT OF OTHERS.
- B. THE TERM "CONTRACTOR" USED IN THIS SECTION OF THE SPECIFICATION, IT SHALL MEAN THE CONTRACTOR WHOSE WORK IS COVERED BY THIS SECTION
- C. WHEN THE TERM "ENGINEER" IS USED IN THIS SECTION OF THE SPECIFICATION, IT SHALL MEAN THE CONSULTING MECHANICAL ENGINEER

1.02 START UP TEXT AND ADJUSTMENT

- A. THE PURPOSE OF STARTUP, TESTING AND ADJUSTING THIS EQUIPMENT IS TO OUT IT INTO FINAL OPERATING CONDITION FOR THE OWNERS USE AND BENEFIT. ALL TESTS OF EQUIPMENT AND SYSTEMS REQUIRED TO PROVE COMPLIANCE WITH THE DRAWINGS AND SPECIFICATION SHALL BE PERFORMED IN THE PRESENCE OF THE OWNERS REPRESENTATIVE. OWNERS REPRESENTATIVE SHALL HAVE MADE COMPLETELY FAMILIAR WITH THE COMPLETE WORKING OF ALL MECHANICAL SYSTEMS
- B. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR THE HVAC TEST & BALANCE, WHICH MUST BE PERFORMED BY AN INDEPENDENT TESTING AND AIR BALANCE CONSULTANT, A CERTIFIED AABC OR NEBB. THE GENERAL CONTRACTOR SHALL SCHEDULE A TENTATIVE MINIMUM OF 4 WEEKS AND THIS WORK SHALL BE PERFORMED AFTER THE HVAC SYSTEM STARTUP IS COMPLETED. ALSO, GAS AND ELECTRIC POWER MUST BE TURNED ON, COOKING EQUIPMENT OPERATIONAL (IF ANY), ALL DOORS AND WINDOWS INSTALLED, AND CEILING FILES IN PLACE PRIOR TO THE TEST AND AIR BALANCE
- C. THE TEST AND BALANCE COVERS ALL HEATING AND AIR CONDITIONING, AND EXHAUST VENTILATION SYSTEMS, A CERTIFIED REPORT SHALL BE SUBMITTED TO THE GENERAL CONTRACTOR AND A COPY TO OWNER WITHIN 2 WEEKS OF COMPLETION

1.03 THE TEST AND AIR BALANCE SHALL BE IN ACCORDANCE WITH THE FOLLOWING CHECKLIST

1.03.1 GENERAL

- A. INQUIRE ABOUT ANY PROBLEMS OR COMPLAINTS
- B. COMPARE MECHANICAL PLANS TO INSTALLED SYSTEM
- C. DOCUMENT DESIGN SPECIFICATIONS FOR REPORT
- D. ENSURE ALL FANS ARE RUNNING FOR BALANCE
- E. MEASURE INITIAL BUILDING PRESSURE.

1.03.2 INSPECT HVAC EQUIPMENT, ROOFTOP, ATTIC, OR FLOOR MOUNTED EQUIPMENT

- A. INSPECT UNITS AND NOTE ANY DEFICIENCIES
- B. RECORD UNIT NAMEPLATE DATA
- C. CHECK THERMOSTATS FOR PROPER SETTINGS
- D. CHECK FOR CORRECT FAN ROTATION (INCLUDE CONDENSER FANS)
- E. CHECK CONDITIONS OF FILTERS AND COILS
- F. CHECK POSITION OF OUTSIDE AIR DAMPERS
- G. CHECK GAS LINES AND CONDENSATE LINES
- H. CHECK BELT TENSION AND PULLEY ALIGNMENT
- I. CHECK DISCONNECT SWITCHES AND COVERS
- J. CHECK ANY FAN NOISE & VIBRATION
- K. CHECK HEAT/COOL MODES OF A/C, RTUs

1.03.3 TEST AND BALANCE KITCHEN HOOD SYSTEM (WHERE APPLICABLE)

- A. MEASURE SUPPLY AND EXHAUST FPM IN HOODS
- B. OBSERVE HOOD SMOKE CAPTURE WITH EQUIPMENT ON
- C. ADJUST SUPPLY AND EXHAUST RPM AND DAMPER SA, AS REQUIRED
- D. NOTE ADJUSTMENTS MADE ON PULLEYS
- E. MEASURE FINAL RPMs
- F. EVALUATE DUCT SYSTEM DESIGN AND INSTALLATION
- G. ENSURE THAT FINAL SMOKE TESTS ARE SATISFACTORY
- H. TEST AND BALANCE HEATING/COOLING SYSTEM
- A. MEASURE RTU/AC SUPPLY AND RETURN AIRFLOW
- B. CHECK FOR DRAFTS, HOT/COLD SPOTS
- C. ADJUST RPM AS NECESSARY TO ACHIEVE DESIGN
- D. CHECK ACTUAL AMPS VERSUS MOTOR FLA
- E. NOTE ADJUSTMENTS MADE ON PULLEYS
- F. MEASURE FINAL RPMs
- G. DAMPER AT BRANCH T/Os FIRST AND AT DIFFUSERS SECOND
- H. EVALUATE DUCT SYSTEM DESIGN AND INSTALLATION
- I. ENSURE SLIGHTLY POSITIVE BUILDING PRESSURE
- J. FINE TUNE POSITION OF OA DAMPER
- K. MEASURE FINAL BUILDING PRESSURE

1.04 FINAL REVIEW

- A. REVIEW REPORT AND DATA FOR COMPLETENESS
- B. DISCUSS RESULTS AND FINDINGS WITH SUPERINTENDENT
- C. AIR QUALITIES SHALL BE BALANCED TO WITHIN + 10% OF DESIGN AS A GENERAL RULE. HOWEVER, IN SOME CASES THE AIR QUANTITIES MAY NEED TO BE ADJUSTED DIFFERENTLY IN ORDER TO ENSURE ACCEPTABLE COMFORT LEVELS, HOOD CAPTURE PERFORMANCE, POSITIVE BUILDING PRESSURE, ETC. MELINK SHALL NOTIFY THE SUPERINTENDENT OF ANY DEFICIENCIES NEEDING IMMEDIATE ATTENTION. THE GC SHALL HAVE THE MECHANICAL AND ELECTRICAL CONTRACTORS ON CALL TO PROMPTLY CORRECT ANY SUCH PROBLEMS. IN THE EVENT MELINK NEEDS TO RESCHEDULE A FOLLOW UP VISIT TO TEST AND BALANCE EQUIPMENT NOT READY ON THE ORIGINALLY SCHEDULED T&B DATE, THE GC SHALL PAY FOR THE ACCIDENTAL COST INVOLVED, INCLUDING TRAVEL.
- D. ALL DATA REQUIRED BY THESE SPECIFICATIONS SHALL BE TYPED ON WHITE BOND PAPER IN TRIPLICATE AND SUBMITTED TO OWNER'S REPRESENTATIVE FOR APPROVAL. COMPLETE APPROVAL WILL BE NECESSARY BEFORE FINAL PAYMENT CAN BE MADE. THE CONTRACTOR SHALL THEN MAKE AVAILABLE SUCH INSTRUMENTS AS REQUIRED FOR SPOT CHECKS ON THE SYSTEM.

WINSTON ENGINEERING INC

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PROJECT NAME:

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HEALTH CLINIC
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PROJECT ADDRESS:

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PROJECT #: 481-1

REVISION SCHEDULE

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HEALTH CLINIC

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Project Name:	Nonresidential Building	NRCC-PHF-01-E	Page 1 of 18
Project Address:	120 N. 8th Street El Centro 92243	Calculation Date/Time:	13:15, Mon, Aug 22, 2022
Input File Name:	481-1 102 N 8th street El Centro.cbdt5x		

A. GENERAL INFORMATION			
1 Project Location (city)	El Centro	8 Standards Version	Compliance 2019
2 CA Zip Code	92243	9 Compliance Software (version)	EnergyPro 8.3
3 Climate Zone	15	10 Weather File	IMPERIAL_747285_CZ2010.edw
4 Total Conditioned Floor Area In Scope	7,358 ²	11 Building Orientation (deg)	[N] 0 deg
5 Total Unconditioned Floor Area	0 ft ²	12 Permitted Scope of Work	Existing/Alteration
6 Total # of Stories (Notable Above Grade)	1	13 Building Type(s)	Nonresidential
7 Total # of Dwelling Units	0	14 Gas Type	Natural Gas

B. PROJECT SUMMARY
Table Instructions: Table B shows which building components are included in the performance calculation. (If indicated as not included, the project must show compliance prescriptively if within permit applications.

Building Components Complying via Performance				Building Components Complying Prescriptively			
Envelope (see Table G)	<input checked="" type="checkbox"/> Performance	Covered Process: Commercial Kitchens	<input type="checkbox"/> Not Included	<input type="checkbox"/> Performance	The following building components are only eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PHF-E).		
	<input type="checkbox"/> Not Included						
Mechanical (see Table H)	<input checked="" type="checkbox"/> Performance	Covered Process: Computer Rooms	<input type="checkbox"/> Not Included	<input type="checkbox"/> Performance	Indoor Lighting (Unconditioned) §1406 NRCC-17-E		
	<input type="checkbox"/> Not Included			Outdoor Lighting §1407 NRCC-17D-E			
Domestic Hot Water (see Table I)	<input checked="" type="checkbox"/> Performance	Covered Process: Laboratory Exhaust	<input type="checkbox"/> Not Included	<input type="checkbox"/> Performance	Sign Lighting §1408 NRCC-17E-E		
	<input type="checkbox"/> Not Included			Mandatory Measures			
Lighting (Indoor Conditioned, see Table K)	<input checked="" type="checkbox"/> Performance			<input type="checkbox"/> Not Included	Electrical Power Systems, commissioning, solar ready, elevator and escalator requirements are a mandatory and should on the NRCC form (if applicable i.e. compliance will not be shown on the NRCC-PHF-E).		
	<input type="checkbox"/> Not Included				Electrical Power Distribution §110.11 NRCC-ELC-E		
Solar Thermal Water Heating (see Table I)	<input type="checkbox"/> Performance			<input checked="" type="checkbox"/> Not Included	Commissioning §120.8 NRCC-CMR-E		
	<input type="checkbox"/> Not Included				Solar Ready §110.10 NRCC-SRA-E		

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KL INDOOR BONDITIONED LIGHTING GENERAL INFO					
1	2	3	4	5	6
Occupancy Type 1	Conditioned Floor Area 2 (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Bottom) Allowance	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Office Area (<250 square feet)	3,840	2,690	0	0	0
Healthcare Facility and Hospitals (Exam/Treatment Room)	724	832	0	0	0
Corridor Area	468	280	0	0	0
Electrical, Mechanical, Telephonic Rooms	77	31	0	0	0
Office Area (>250 square feet)	1,400	924	0	0	0
Restrooms	153	99	0	0	0
Office Area (Open plan office)	676	406	0	0	0
Building Totals:	7,358	5,262	0	0	0

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CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRECC-PRF-01-E-12092021-6844 Report Generated at: 2022-08-22 13:18:45



COMMERCIAL

PROJECT ADDRESS:

PROJECT #: 481-1

HEALTH CLINIC

ENERGY COMPLIANCE

Copy Protection

Copy Protection

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**ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING “APPROVED EQUAL OR
BETTER” STATEMENT.**

GENERAL NOTES	
---------------	--

1. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING SYSTEM.
2. COORDINATE AND OBTAIN APPROVALS FROM ALL RESPECTIVE UTILITY COMPANIES AS REQUIRED FOR A COMPLETE AND OPERATING INSTALLATION.
3. INSTALL RACEWAY SYSTEMS AS FOLLOWS:
- a. USE ELECTRIC METALLIC TUBE CONDUIT IN ALL AREAS PROTECTED ABOVE CEILING OR IN WALLS.
 - b. USE RIGID GALVANIZED STEEL IN ALL AREAS EXPOSED TO WEATHER OR PHYSICAL DAMAGE.
 - c. USE FLEXIBLE METALLIC CONDUIT ONLY IN AREAS AS PERMITTED BY LOCAL CODE AUTHORITY, USE SEAL-TITE IN AREAS EXPOSED TO WEATHER.
 - d. USE COMPRESSION TYPE FITTINGS FOR ELECTRICAL METALLIC TUBING WHERE UTILIZED.
 - e. USE P.V.C. CONDUIT UNDERGROUND WITH CODE SIZED GROUND.
 - CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.
 - f. THE USE OF ROMEX OR BX IS NOT PERMITTED.
4. ALL NEW WIRING SHALL BE COPPER TYPE "THHN/THWN" - U.O.N..
5. ALL CEILING MOUNTED ELECTRICAL DEVICES AND/OR EQUIPMENT SHALL BE SUPPORTED FROM THE CEILING GRID, NOT FROM CEILING TILE.
6. ALL FIXTURE, DEVICE, ETC... LOCATIONS SHALL BE VERIFIED WITH ARCH. DRAWINGS AS WELL AS EQUIPMENT SUPPLIER REQUIREMENTS PRIOR TO ANY ROUGH-IN WORK.
7. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS, THE 2019 CALIFORNIA ELECTRICAL CODE, AND THE CALIFORNIA ENERGY CODE.
8. CONTRACTOR SHALL PROVIDE LIGHTING FIXTURE MOUNTING KITS AS REQUIRED TO SUIT THE EXACT TYPE OF CEILING TO WHICH THEY ARE MOUNTED.
9. THESE DRAWING ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF EQUIPMENT, DEVICES, ETC... TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED TO. CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES, ETC... AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
10. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.
11. ALL WORK SHALL COMPLY WITH THE 2019 CALIFORNIA ELECTRICAL CODE AND THE 2019 CALIFORNIA ENERGY CODE.
12. ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N..
13. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS.
14. COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR - U.O.N..
15. CONTRACTOR SHALL INCLUDE IN BID - COSTS FOR ALL HVAC CONTROL COMPONENTS, CONDUITS, DEVICES, ETC... AS DEEMED NECESSARY FOR A COMPLETE AND OPERATING HVAC SYSTEM. REFER TO MECHANICAL DRAWINGS, DIAGRAMS AND SPECS FOR THOSE ITEMS REQUIRED UNDER THE ELECTRICAL SECTION OF THIS CONTRACT.
16. CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURE DEVICES, FEEDERS, ETC... EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL IMMEDIATELY NOTIFY ELECTRICAL ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOBSITE CONDITIONS AND WORK TO BE PERFORMED.
17. ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, NEMA CONFIGURATION, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.
18. CONTRACTOR SHALL FURNISH THE FOLLOWING SHOP DRAWINGS FOR PRIOR APPROVAL:
- a. ALL SUBMITTED LIGHT FIXTURES.
 - b. ALL ELECTRICAL SERVICE EQUIPMENT, DISTRIBUTION EQUIPMENT AND PANELBOARDS.
 - c. OTHER ITEMS AS SPECIFICALLY INDICATED.
19. COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC).
20. PENETRATIONS OF ALL FIRE RATED WALLS OR CEILINGS SHALL BE FIRE RATED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
21. PROVIDE RIVETED ON ENGRAVED PLASTIC NAMEPLATES (BLACK WITH WHITE LETTERS) FOR ALL MAJOR ELECTRICAL EQUIPMENT.
22. PROVIDE THE OWNER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF THE JOB.
23. ALL DEVICES MOUNTED BACK TO BACK ON THE FIRE RATED WALL SHALL BE MOUNTED WITH 24" MINIMUM HORIZONTAL OFFSET.
24. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
25. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH TENANT IMPROVEMENT WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
26. LOCATION OF OUTLET SHOWN IS APPROXIMATE ONLY AND OUTLET MAY BE MOVED TO SUIT EQUIPMENT LAYOUT. COORDINATE WITH ARCHITECT AND/OR TENANT REPRESENTATIVES FOR EXACT LOCATION.
27. PANELBOARDS SHALL BE PROVIDED WITH TYPEWRITTEN PANEL SCHEDULE MOUNTED INSIDE EACH PANEL AND ENGRAVED PRIMARY/SECONDARY PANEL LABELS FROM SWITCHBOARD.
28. VERIFY ALL DISCONNECT SWITCHES, FUSE SIZES AND TYPES WITH MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
29. A SEPARATE GROUNDING CONDUCTOR SHALL BE RUN IN ALL NON METALLIC CONDUIT RUNS.
30. ALL ELECTRICAL DEVICES SHOWN WITH (E) ARE EXISTING TO REMAIN AND (N) ARE NEW.
31. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION. PROVIDE APPROVED HANDLE TIE AT CIRCUIT BREAKER AS REQUIRED.
32. ELECTRICAL RECEPTACLE OUTLETS AND SWITCHES, INCLUDING COMMUNICATION SYSTEM RECEPTACLES, SHALL BE LOCATED NOT LESS THAN 15" MEASURED TO THE BOTTOM OF THE BOX OR MORE THAN 48" MEASURED TO THE TOP OF THE BOX A.F.F.
33. PROVIDE GROUND CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS, SIZED PER CODE, UNLESS OTHERWISE INDICATED.
34. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE CONDUCTORS SHOWN. ALL PANELBOARDS SHALL BE EQUIPPED WITH BOLT-ON CIRCUIT BREAKERS PER PANEL SCHEDULE.
35. ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE FASTENED TO STRUCTURE SO AS TO RESIST MOVEMENT DUE TO SEISMIC FORCES. REQUIREMENTS SHALL BE AS SPECIFIED BY THE STATE OF CALIFORNIA AND LOCAL CODES AND ORDINANCES.
36. THE FEEDER LENGTHS SHOWN ON DRAWINGS ARE AN APPROXIMATE FOR VOLTAGE DROP CALCULATIONS. CONTRACTOR SHALL FIELD-VERIFY THE EXTENT OF THE WORK UNDER WHICH HE WILL BE OBLIGATED TO OPERATE IN PERFORMING HIS CONTRACT.
37. WINSTON ENGINEERING INC DOES NOT DETERMINE THE MAKE OR MODEL OF ANY EQUIPMENT U.O.N.
- FIRE LIFE SAFETY NOTES
- UNDER DESIGN/BUILD FIRE/LIFE SAFETY CONTRACTOR SHALL INVESTIGATE THE EXTENT OF REQUIRED SCOPE OF WORK WITH FIRE MARSHAL AND OTHER AUTHORITIES HAVING PLAN CHECK AND INSPECTION AUTHORITIES AND PROVIDE AND SUBMIT FIRE/LIFE SAFETY (FIRE ALARM SYSTEM) CONSTRUCTION DOCUMENTS TO AHJ. APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF THE SYSTEM.
- CONTRACTOR SHALL PROVIDE AS PART OF FIRE ALARM SYSTEM:
- * CONSTRUCTION DOCUMENT AND SHOP DRAWINGS, EQUIPMENT LIST WITH CSFM LISTING NUMBERS.
 - * SYSTEM SHALL BE PEER TO PEER NETWORK CAPABLE AND MICROPROCESSOR BASED.
 - * COORDINATE WITH MECHANICAL, PLUMBING AND FIRE PROTECTION SYSTEM DRAWINGS FOR ALL REQUIRED FIRE ALARM DEVICES UNDER MECHANICAL, PLUMBING & FIRE PROTECTION AND PROVIDE INTERCONNECTING WIRING FOR A COMPLETE WORKING SYSTEM.
 - * COORDINATE WITH ELEVATOR CONSULTANT FOR ALL REQUIRED FIRE ALARM SYSTEM DEVICES.
- ALL
SPE

ABBREVIATIONS

3PL	THIRD PARTY LOGISTICS
AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACT	ACCOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
AMP	AMPERE
AOR	ARCHITECT OF RECORD
APPROX	APPROXIMATE
BOH	BACK OF HOUSE
BLDG	BUILDING
CAB	CABINET
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR OR CLEARANCE
COL	COLUMN
COMP	COMPARTMENT
CONST	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
CW	COLD WATER
CWF	COLD WATER FILTERED
CX	COMMISSIONING
CXA	COMMISSIONING AGENT
DEG	DEGREES
DET	DETAIL
DIA	DIAMETER
DISP	DISPENSER
DIM	DIMENSION
DM	DESIGN MANAGER
DN	DOWN
DWG(S)	DRAWING(S)
EA	EACH
EC	ELECTRICAL CONTRACTOR
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
EM	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST OR (E)	EXISTING
EXP	EXPAND
EXT	EXTERIOR
FC	FIXTURE CONTRACTOR/INSTALLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF&E	FURNITURE, FIXTURE AND EQUIPMENT
F&I	FURNISH AND INSTALL
FIN	FINISH
FLR	FLOOR
FOH	FRONT OF HOUSE
FRP	FIBERGLAS REINFORCED PANEL
FS	FLOOR SINK
FT	FOOT OR FEET
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HC	HOLLOW CORE
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HS	HOT SINK
HT	HEIGHT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
ID	INSIDE DIAMETER
LC	LICENSEE
LL	LANDLORD
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MEP	MECHANICAL ELECTRICAL AND PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MS	MOP SINK
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OVER ALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	PHOTOCELL
PD	PRODUCTION DESIGNER
PDM	PROJECT DEVELOPMENT MANAGER
PLAM	PLASTIC LAMINATE
POS	POINT OF SALE
R	RADIUS
REF	REFERENCE
REQ("D)	REQUIRE(D)
REV	REVISION
RG	RETURN GRILLE
RND	ROUND
RT	ROOF TOP
SC	SOLID CORE
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
SUSP	SUSPENDED
TEL	TELEPHONE
TEMP	TEMPORARY
TW	TEMPERED WATER
TYP	TYPICAL
UC	UNDERCOUNTER
UON	UNLESS OTHERWISE NOTED
VD	VENDOR DIRECT
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	SANITARY WASTE
WH	WATER HEATER
WP	WEATHER PROOF
WCO	WALL CLEANOUT

PROPRIETARY PRODUCTS/
IFICATIONS SHALL INCLUDE THE

SYMBOLS

Electrical Engineer Of Record

WINSTON ENGINEERING INC.

8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com
www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
ANTHONY WINSTON III
No. E-20881
EXP. 9/30/2022
STATE OF CALIFORNIA

8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com
www.winstoneng.com



PROJECT NAME:

BEHAVIORAL
HEALTH CLINIC
REMODEL

COMMERCIAL

PROJECT ADDRESS:

120 N. 8TH STREET,
EL CENTRO,
CA 92243

PROJECT #: 481-1

[illegible]

E1.0

GENERAL NOTES

Copy Protection

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GENERAL NOTES

1. CAPACITY OF STORAGE BATTERY SYSTEMS SHALL NOT BE LESS THAN 90 MINUTES OPERATING TIME WITHOUT THE VOLTAGE FALLING BELOW 87.5% NORMAL.

LIGHTING SCHEDULE

FIXTURE SYMBOL	DESCRIPTION	VOLTAGE (V)	POWER (W)
	2' x 4' FLAT PANEL - LITHONIA LIGHTING - CPX LED PANEL- 4000LM-80CRI-35K A12-39.29 WATTS	120V	39.29W
	2' x 4' FLAT PANEL - LITHONIA LIGHTING - CPX LED PANEL- 4000LM-80CRI- WITH 90 MIN BACKUP BATTERY	120V	39.29W
	TWPX1 LED-VANDAL RESISTANT-LED WALL LUMINAIRE- LITHONIA LIGHTING	120V	22.5W
	6" LED COMMERCIAL DOWNLIGHT - LITHONIA LDN	120V	18W
	WALL LIGHT - SONAR SPC12 SERIES LED - ACUITY BRAND- 2CR - 12 INCH- 20 WATTS	120V	20W



1 LIGHT PLAN
Scale 1/8" = 1'-0"

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REVISION SCHEDULE

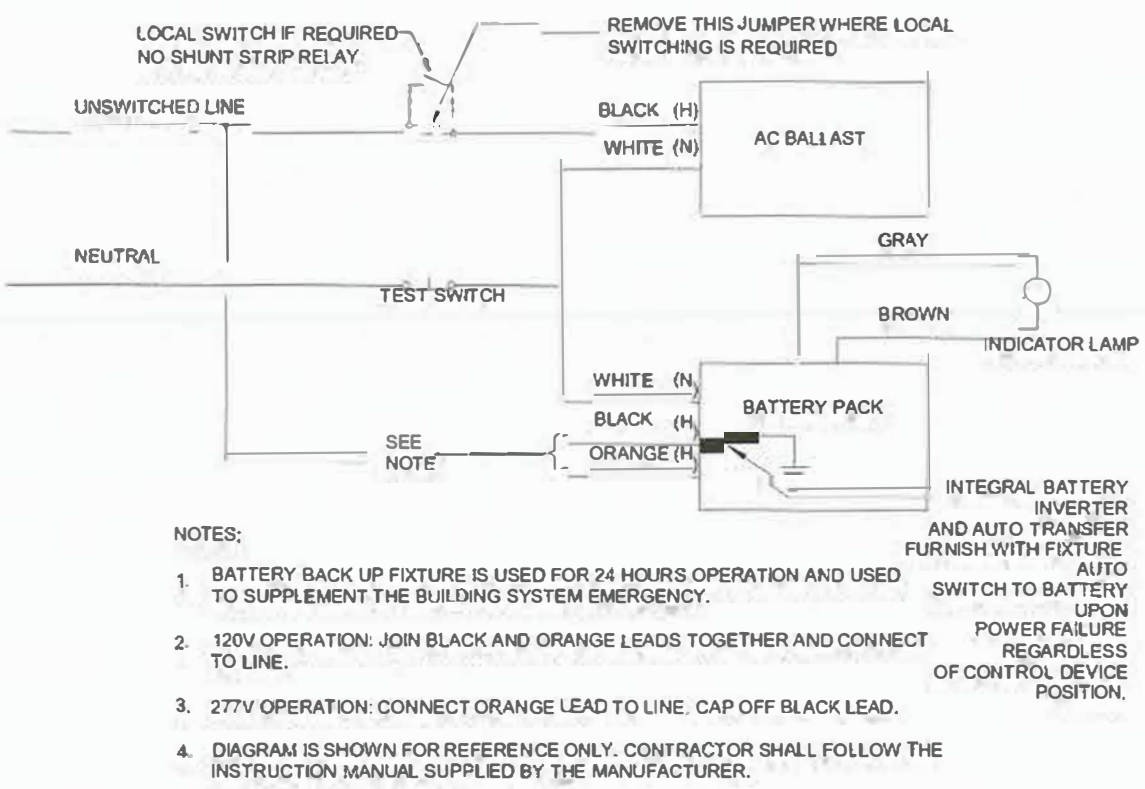
ISSUE	DATE
INITIAL SET	08-23-2022

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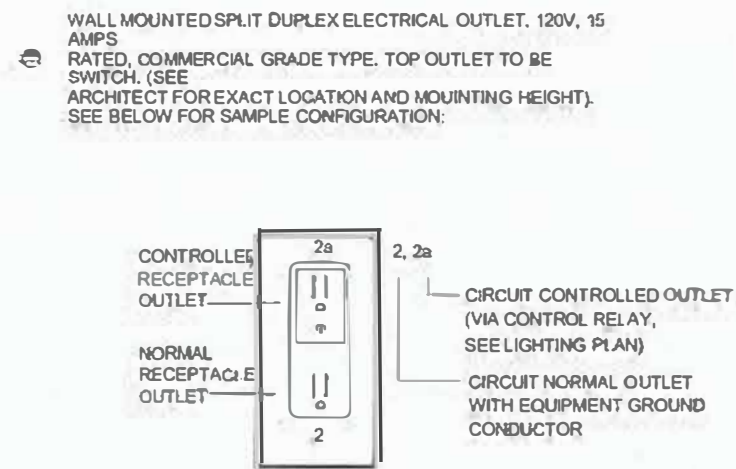
LIGHTING

Copy Protection

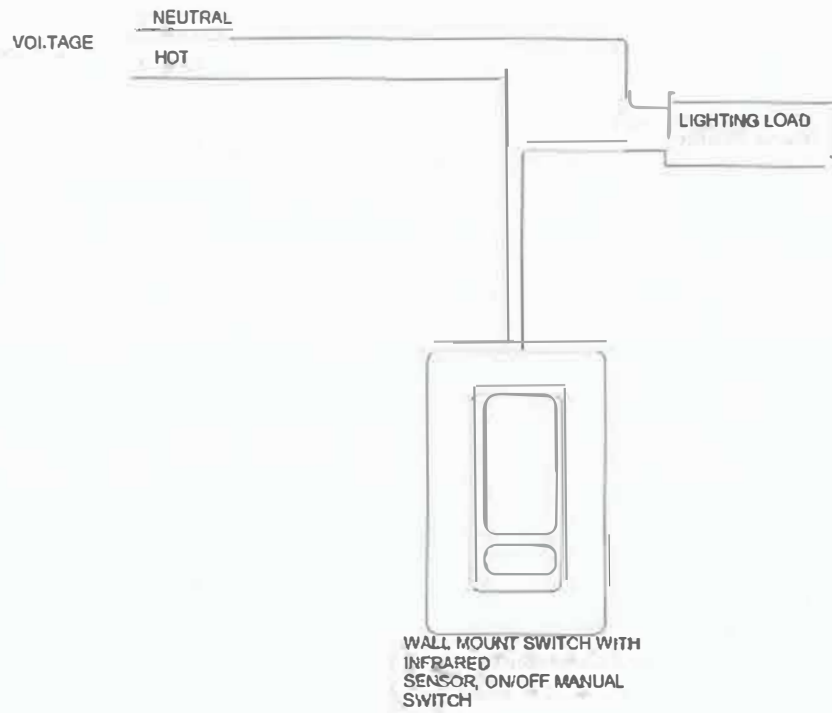
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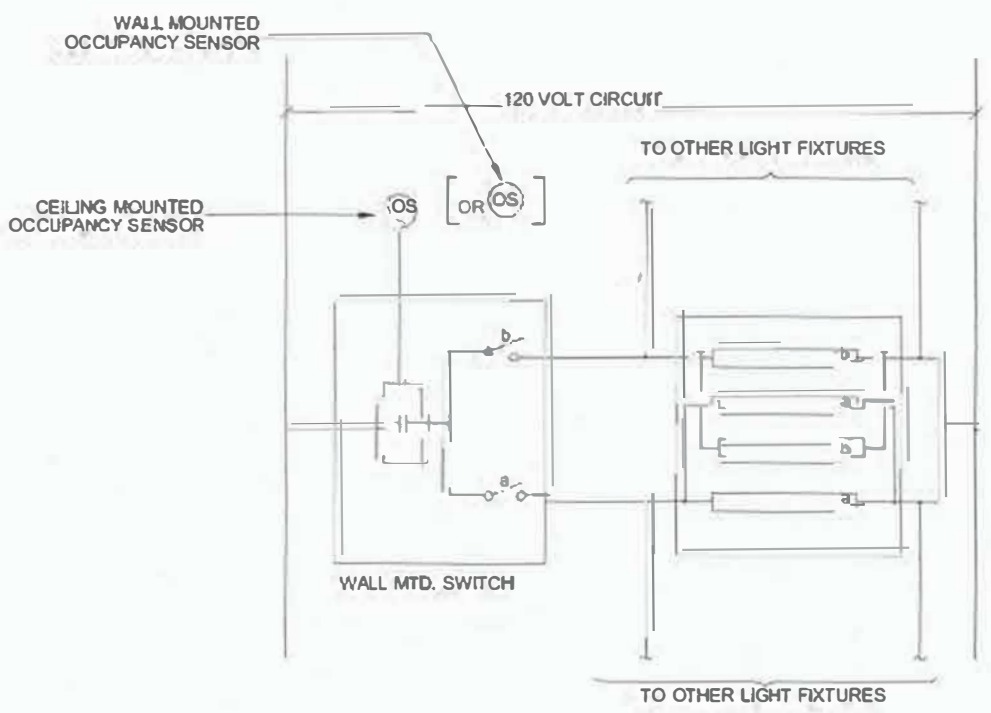
LIGHT FIXTURE W/ EM. BATT. PACK
SCALE: N.T.S.



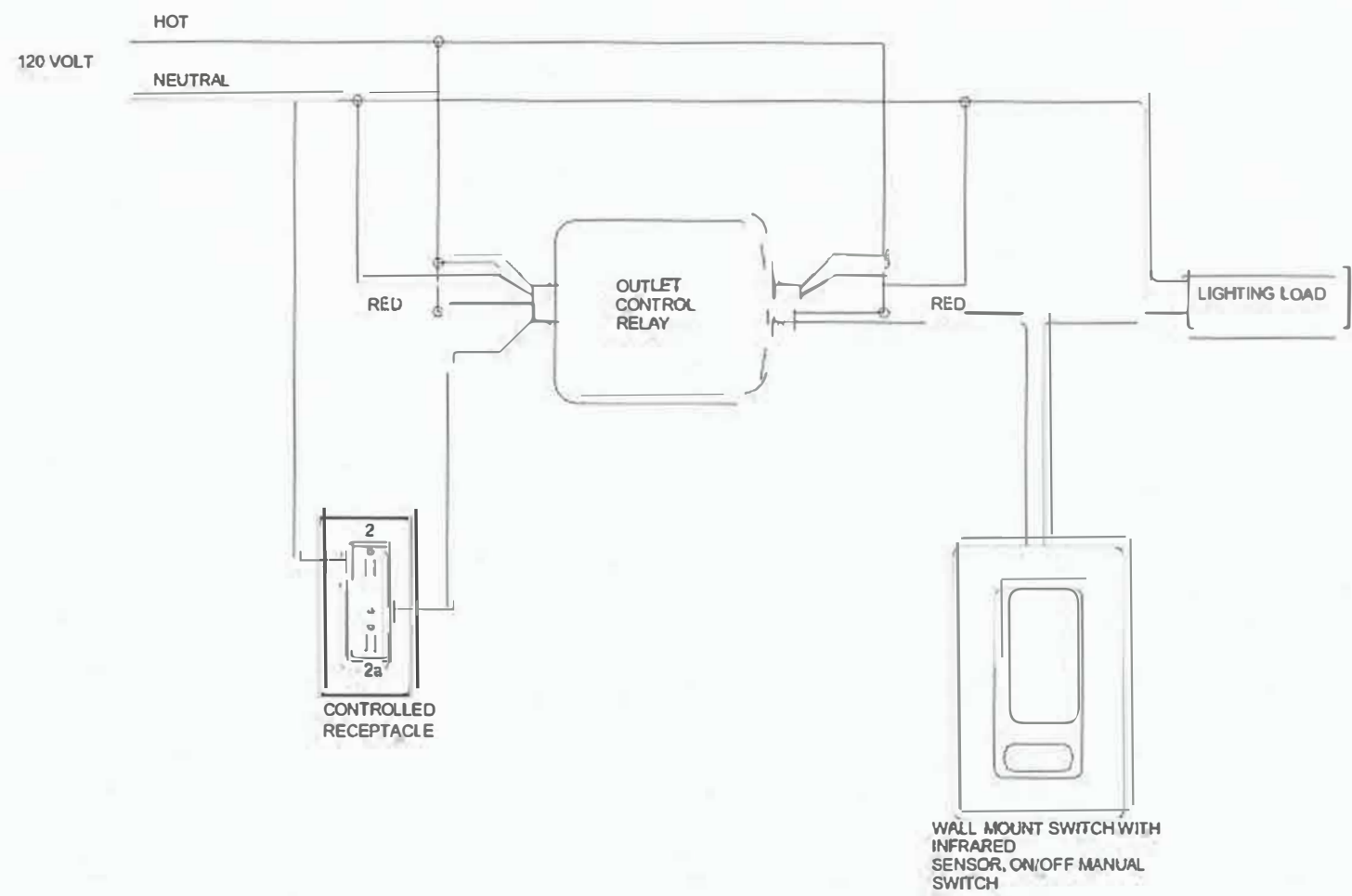
CONTROLLED OUTLET
SCALE: N.T.S.



LIGHTING CONTROL
SCALE: N.T.S.



LIGHTING CONTROL FOR NEW OFFICE<100 SF.
SCALE: N.T.S.



LIGHTING CONTROL WITH CONTROL OUTLETS
SCALE: N.T.S.

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CA 92243

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REVISION SCHEDULE		
ISSUE	DATE	
INITIAL SET	08-23-2022	

E2.1

LIGHTING CONTROLS & DETAILS

Copy Protection

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ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
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BETTER” STATEMENT.

Luminaire Type	Minimum Required Control Steps (percent of full rated power ¹)	Uniform level of illuminance shall be achieved by:		
Line-voltage sockets except GU-24	Continuous dimming 10-100 percent			
Low-voltage incandescent systems				
LED luminaires and LED source systems				
GU-24 rated for LED				
GU-24 sockets rated for fluorescent > 20 watts	Continuous dimming 20-100 percent			
Pin-based compact fluorescent > 20 watts ²				
GU-24 sockets rated for fluorescent ≤ 20 watts	Minimum one step between 30-70 percent	Stepped dimming; or Continuous dimming; or Switching alternate lamps in a luminaire		
Pin-based compact fluorescent < 20 watts ²				
Linear fluorescent and U-bent fluorescent ≤ 13 watts				
Linear fluorescent and U-bent fluorescent > 13 watts	Minimum one step in each range:			Stepped dimming; or Continuous dimming; or switching alternate lamps in each luminaire, having a minimum of 4 lamps per luminaire, illuminating the same area and in the same manner
	20-40 %	50-70 %	80-85 %	100 %
Track Lighting	Minimum one step between 30 – 70 percent			Step dimming; or Continuous dimming; or Separately switching circuits in multi-circuit track with a minimum of two circuits.
HID > 20 watts	Minimum one step between 50 - 70 percent			
Induction > 25 watts	Stepped dimming; or Continuous dimming; or			
Other light sources	Switching alternate lamps in each luminaire, having a minimum of 2 lamps per luminaire, illuminating the same area and in the same manner.			

1. Full rated input power of ballast and lamp, corresponding to maximum ballast factor

2. Includes only pin based lamps: twin tube, multiple twin tube, and spiral lamps

Photocell Notes:

1. Per Title 24 Section 130.1 (d), all luminaires within the primary and secondary daylight zones shall be controlled following Table 130.1-A.

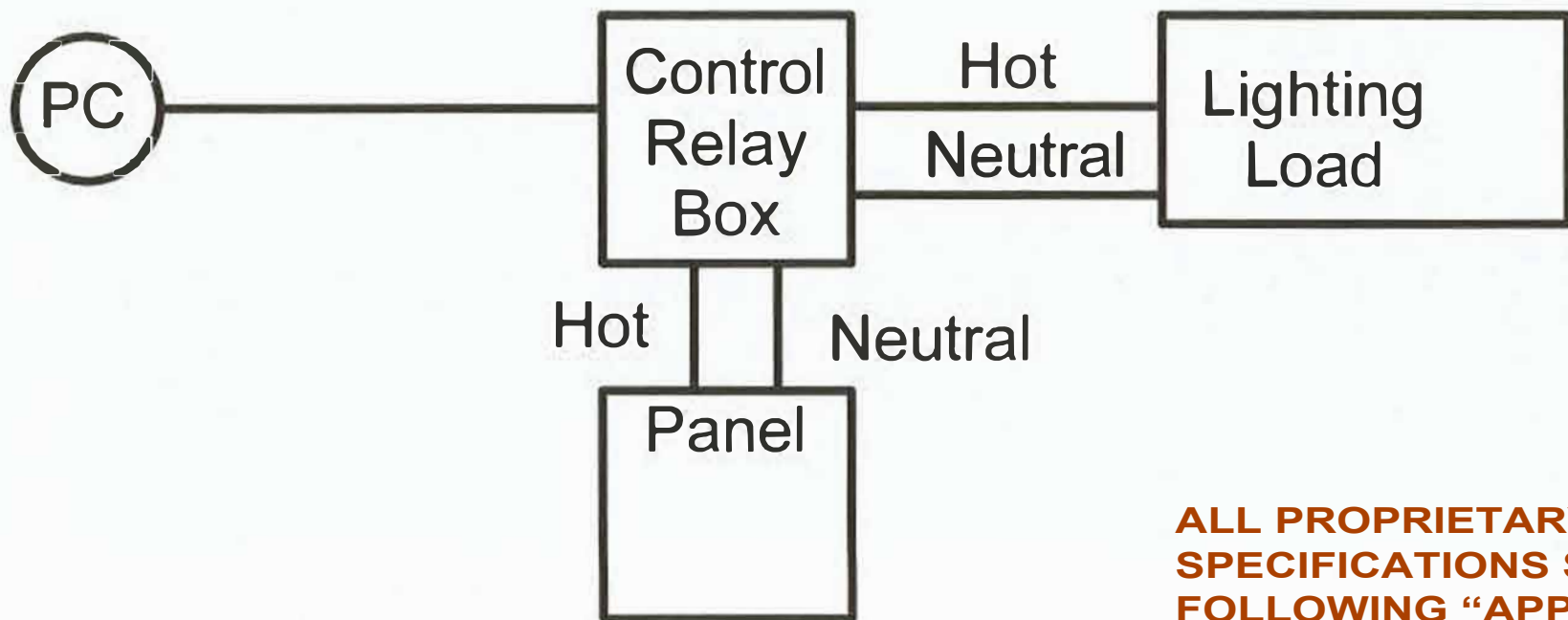
SKYLIT DAYLIT ZONE is the rough area in plan view under each skylight, plus 0.7 times the average ceiling height in each direction from the edge of the rough opening of the skylight, minus any area on a plan beyond a permanent obstruction that is taller than the following. A permanent obstruction that is taller than one-half the distance from the floor to the bottom of the skylight. The bottom of the skylight is measured from the bottom of the skylight well for skylights having wells, or the bottom of the skylight if no skylight well exists.

For the purpose of determining the skylit daylight zone, the geometric shape of the skylit daylight zone shall be identical to the plan view geometric shape of the rough opening of the skylight; for example, for a rectangular skylight the skylit daylight zone plan area shall be rectangular, and for a circular skylight the skylit daylight zone plan area shall be circular.

PRIMARY SIDELIT DAYLIT ZONE is the area on a plan directly adjacent to each vertical glazing, one window head height deep into the area, and window width plus 0.5 times window head height wide on each side of the rough opening of the window, minus any area on a plan beyond a permanent obstruction that is 6 feet or taller as measured from the floor.

- **SECONDARY SIDELIT DAYLIT ZONE** is the area on a plan directly adjacent to each vertical glazing, two window head heights deep into the area, and window width plus 0.5 times window head height wide on each side of the rough opening of the window, minus any area on a plan beyond a permanent obstruction that is 6 feet or taller as measured from the floor.

2. Photocell placement to be verified per lighting controls manufacturer.



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FOLLOWING “APPROVED EQUAL OR
BETTER” STATEMENT.**

- THE LIGHTING FIXTURE SCHEDULE INDICATES GENERAL DESCRIPTION OF LIGHTING FIXTURES AND MANUFACTURERS CATALOG NUMBERS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE CORRECT CEILING CONFIGURATION, VOLTAGE AND PROVIDE THE FIXTURES WITH ALL NECESSARY TRIMS AND MOUNTING HARDWARE SO THAT BOTH THE CEILING SYSTEM AND THE FIXTURE CONSTRUCTION MATCHES.
2. A JUNCTION BOX MUST BE PROVIDED WITH ALL EXIT LIGHTS CONNECTED TO MORE THAN ONE SET OF CONDUCTORS UNLESS THE EXIT LIGHT FIXTURE IS FURNISHED WITH AN APPROVED OUTLET BOX FOR THROUGH WIRING.
3. ALL LIGHT FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP, WET, EXPLOSIVE-PROOF OR CORROSIVE-RESISTANT AS REQUIRED BY CODES AND ORDINANCES.
4. PRIOR TO ORDERING ANY LIGHTING FIXTURES, THE CONTRACTOR SHALL COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, CEILING CAVITY DEPTHS, AND ELEVATION PLANS.
5. UPON INITIAL ENERGIZING OF ALL NEW FLUORESCENT LAMPS, A CONTINUOUS PERIOD OF 30 HOURS SHALL OCCUR PRIOR TO DE-ENERGIZING OF LAMPS, FOR MANUFACTURER REQUIRED LAMP BURN-IN AND MAXIMUM LAMP LIFE.
6. PROVIDE CLEARANCES FROM COMBUSTIBLES A MINIMUM OF 1/2" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR RECESSED LIGHTING FIXTURES WHICH MUST BE NON-IC RATED.
7. PROVIDE A MINIMUM OF TWO #12 SUPPORT WIRES ATTACHED TO BUILDING FRAME IN ADDITION TO T-BAR CLIPS FOR FLUORESCENT FIXTURES RECESSED IN SUSPENDED T-BAR CEILING.
8. PROVIDE FOUR SHEET METAL SCREWS, ONE INSTALLED IN EACH CORNER OF THE FIXTURE ATTACHING THE FIXTURE TO THE GRID. SCREWS SHALL NOT BE VISIBLE NOR IMPEDE INSTALLATION OF GRID PANELS.
9. PROVIDE SHATTERPROOF LENS FOR ALL LIGHT FIXTURES SERVING FOOD AREAS SUCH FOOD PREPARATION AND KITCHEN AREAS.
10. APPROVED LAMP MANUFACTURERS ARE LITHONIA, OSRAM, SYLVANIA, GE, PHILLIPS, VENTURE OR APPROVED EQUAL.
11. LAMP COLOR TEMPERATURES FOR FLUORESCENT LIGHTING SHALL BE MINIMUM OF 3500°K, UNLESS NOTED OTHERWISE.
12. ALL LIGHT FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S) THAT HAVE UL AND CBM LABELS. ALL BALLAST MUST CONFORM WITH TITLE 24 REQUIREMENTS FOR PERFORMANCE AND EFFICIENCY. FLUORESCENT FIXTURE BALLASTS SHALL HAVE BALLAST FACTOR RATING NOT LESS THAN 0.90.
13. FLUORESCENT FIXTURES SHALL BE SUPPLIED WITH "QUICK DISCONNECT" SAFETY BALLAST HARDWARE WHICH ARE UL AND CSA CERTIFIED IN ACCORDANCE WITH NEC 410.73(G) AND CEC 30-308(4).
14. ALL NIGHT/EMERGENCY LIGHTS, BATTERY PACKS AND EXIT SIGNS SHALL CONTAIN UNSWITCHED, NON-DIMMED, CONSTANT "HOT" CONDUCTOR AND BE IN COMPLIANCE WITH NEC ARTICLE 700.

Provide a maximum 2 hour override switch.

Panel Hot Neutral Timer Hot Neutral Lighting Load

Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Response Signal; so that the building's total lighting power can be lowered by a minimum of 15 percent below the total installed lighting power. Lighting shall be reduced in a manner consistent with uniform level of illumination requirements in TABLE 130.1-A above.

Spaces that are non-habitable shall not be used to comply with this requirement, and spaces with a lighting power density of less than 0.5 watts per square foot shall not be counted toward the building's total lighting power.

all buildings, both controlled and uncontrolled 120 volt receptacles shall be provided in each private office, open office area, reception lobby, conference room, kitchenette in office spaces, and copy room. Additionally, hotel/motel guest rooms shall comply with Item 5. Controlled receptacles shall meet the following requirements, as applicable:

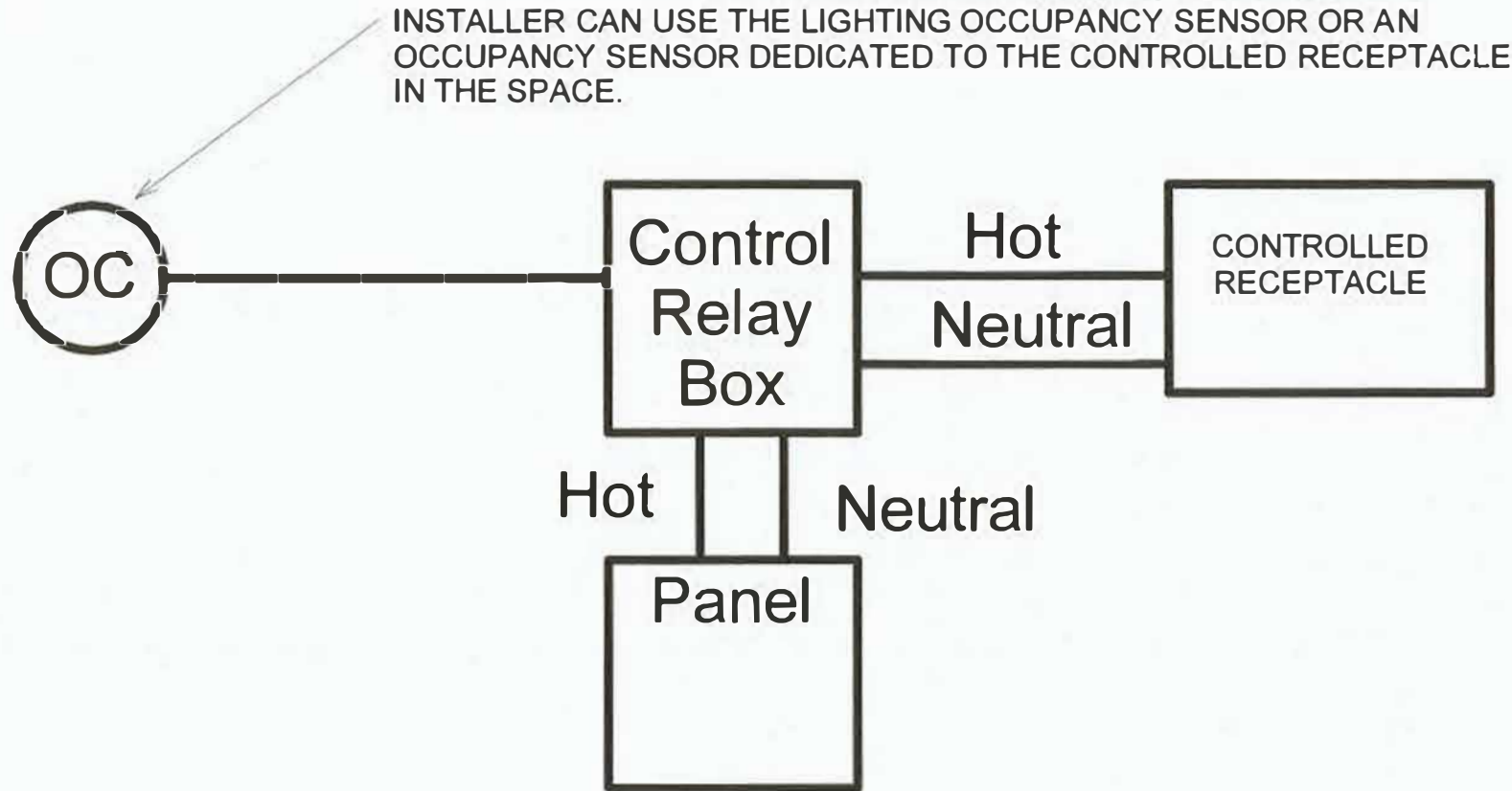
1. Electric circuits serving controlled receptacles shall be equipped with automatic shut-OFF controls following the requirements prescribed in Section 130.1(c) (1 through 5); and
2. At least one controlled receptacle shall be installed within 6 feet from each uncontrolled receptacle or a split wired duplex receptacle with one controlled and one uncontrolled receptacle shall be installed; and
3. Controlled receptacles shall have a permanent marking to differentiate them from uncontrolled receptacles; and
4. For open office areas, controlled circuits shall be provided and marked to support installation and configuration of office furniture with receptacles that comply with Section 130.5(d) and
5. For hotel and motel guest rooms at least one-half of the 120-volt receptacles in each guest room shall be controlled receptacles that comply with Section 130.5(d)1, 2, and 3. Electric circuits serving controlled receptacles shall have captive card key controls, occupancy sensing controls, or automatic controls such that, no longer than 30 minutes after the guest room has been vacated, power is switched off.
6. Plug-in strips and other plug-in devices that incorporate an occupant sensor shall not be used to comply with this requirement.

EXCEPTION 1 to Section 130.5(d): In open office areas, controlled circuit receptacles are not required if, at time of final permit, workstations are installed, and each workstation is equipped with an occupant sensing control that is permanently mounted in each workstation, and which controls a hardwired, nonresidential-rated power strip. Plug-in strips and other plug-in devices that incorporate an occupant sensor shall not be used for this exception.

EXCEPTION 2 to Section 130.5(d): Receptacles that are only for the following purposes:

- i. Receptacles specifically for refrigerators and water dispensers in kitchenettes.
- ii. Receptacles located a minimum of six feet above the floor that are specifically for clocks.
- iii. Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms.
- iv. Receptacles on circuits rated more than 20 amperes.

Diagram illustrating the wiring for the lighting load of a mobile home. The diagram shows a 'LIGHTING LOAD' box connected to a 'NEUTRAL' box and a 'BLACK/WHITE' wire. The 'BLACK/WHITE' wire is connected to the 'BLACK (REQUIRED)' wire of a mobile home unit. The 'NEUTRAL' box is connected to a 'TO PANEBOARD POWER SOURCE' box. A 'GROUND REQUIRED' symbol is shown at the bottom right.



Electrical Engineer Of Record



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PROJECT NAME:

BEHAVIORAL HEALTH CLINIC REMODEL

COMMERCIAL

PROJECT ADDRESS:

120 N. 8TH STREET,
EL CENTRO,
CA 92243

PROJECT #: 481-1

REVISION SCHEDULE

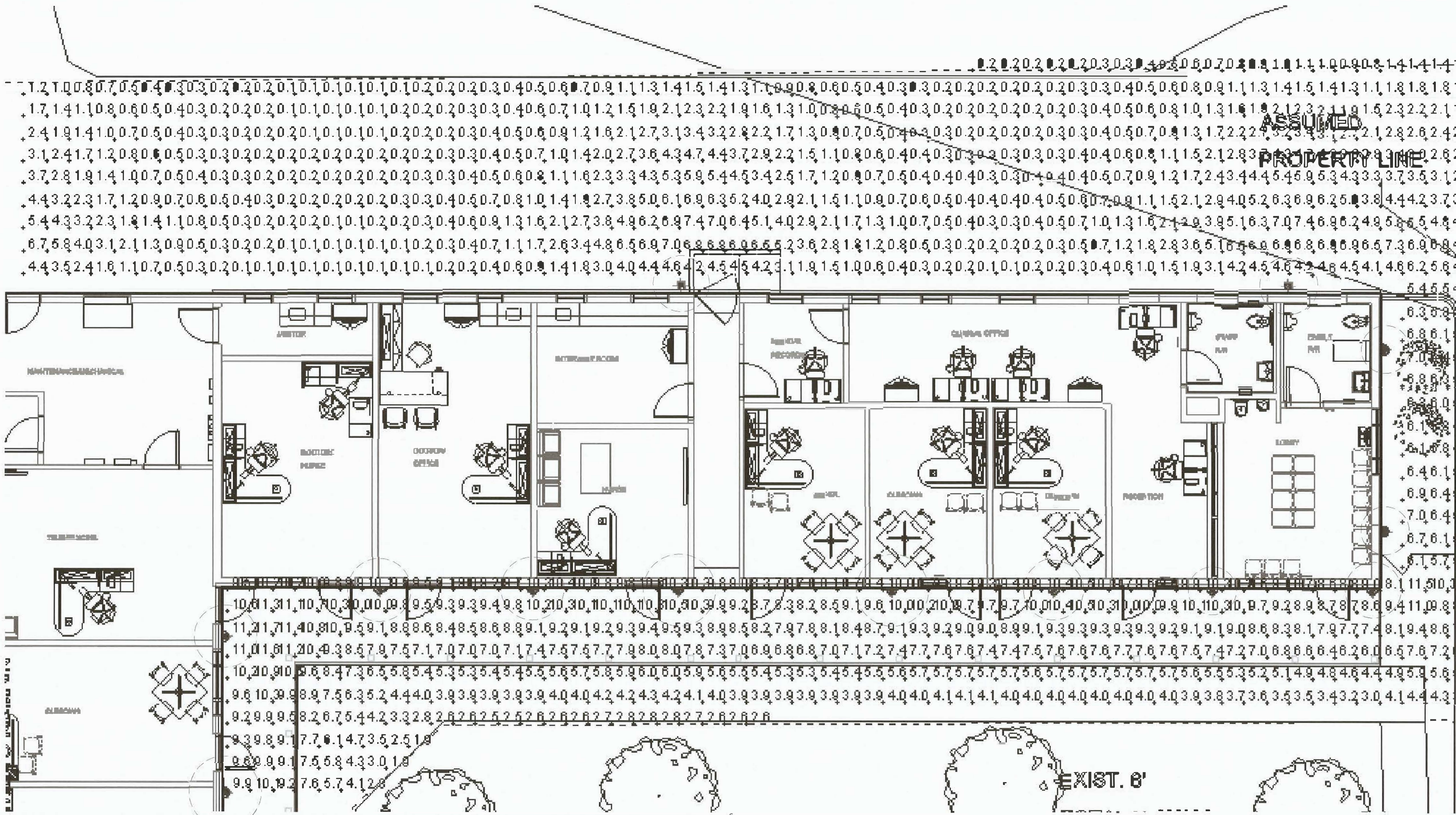
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E2.2

TITLE 24 LIGHTING
CONTROLS/CONTROLLED
RECEPTACLE PLAN

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102 N 8th St El
Centro

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
102 N 8TH ST EL CENTRO	+	4.2 fc	11.7 fc	0.1 fc	117.0:1	42.0:1

ALL PROPRIETARY PRODUCTS/
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PROJECT NAME:

BEHAVIORAL
HEALTH CLINIC
REMODEL

COMMERCIAL

PROJECT ADDRESS:

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EL CENTRO,
CA 92243

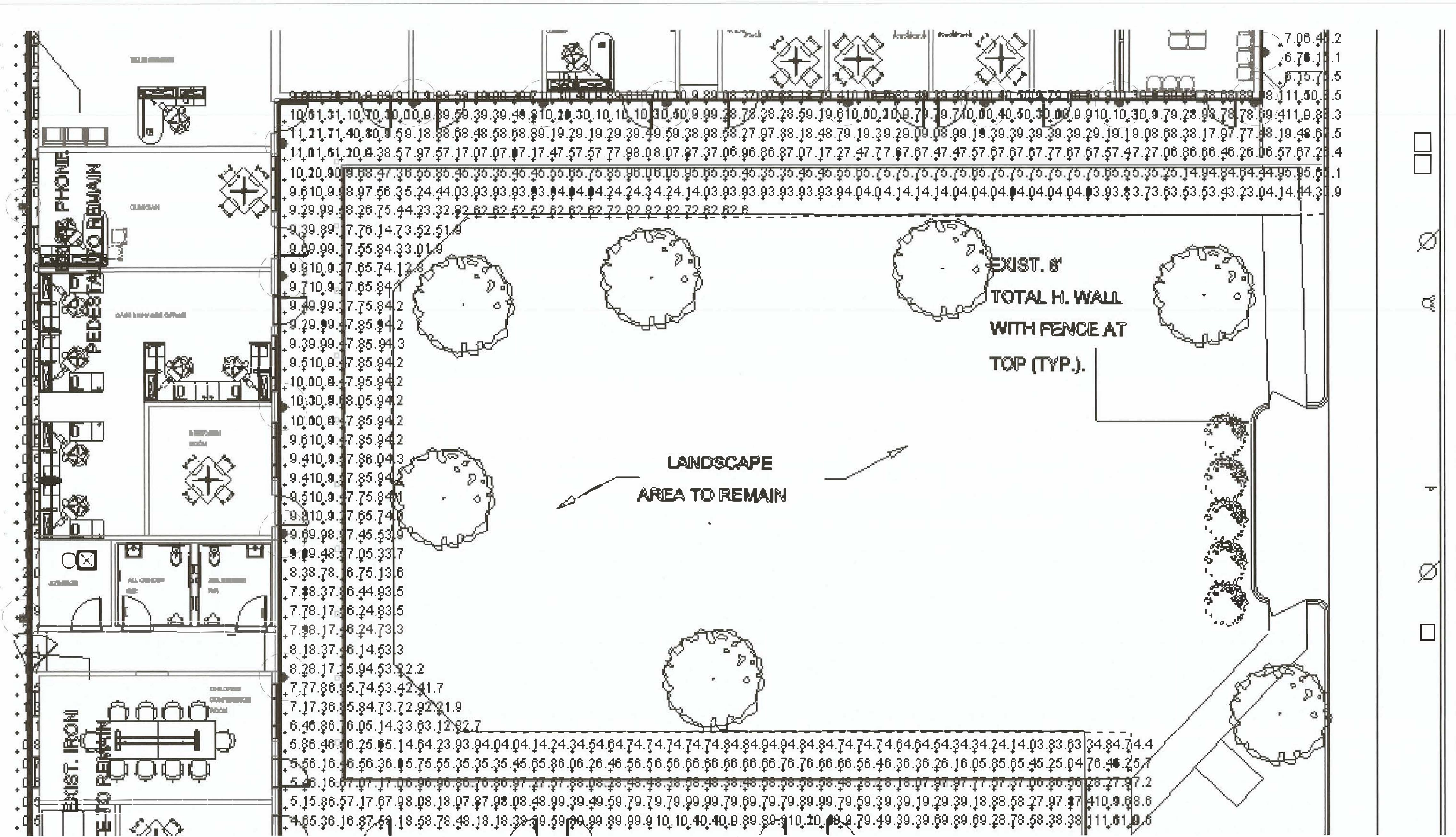
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E2.3

EXTERIOR PHOTOMETRICS

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102 N 8th St El
Centro

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
102 N 8TH ST EL CENTRO	+	4.2 fc	11.7 fc	0.1 fc	117.0:1	42.0:1

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REGISTERED PROFESSIONAL ENGINEER
ANTHONY WINSTON III
No. E-20881
EXP. 9/30/2022
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME:

BEHAVIORAL
HEALTH CLINIC
REMODEL

COMMERCIAL

PROJECT ADDRESS:

120 N. 8TH STREET,
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PROJECT #: 481-1

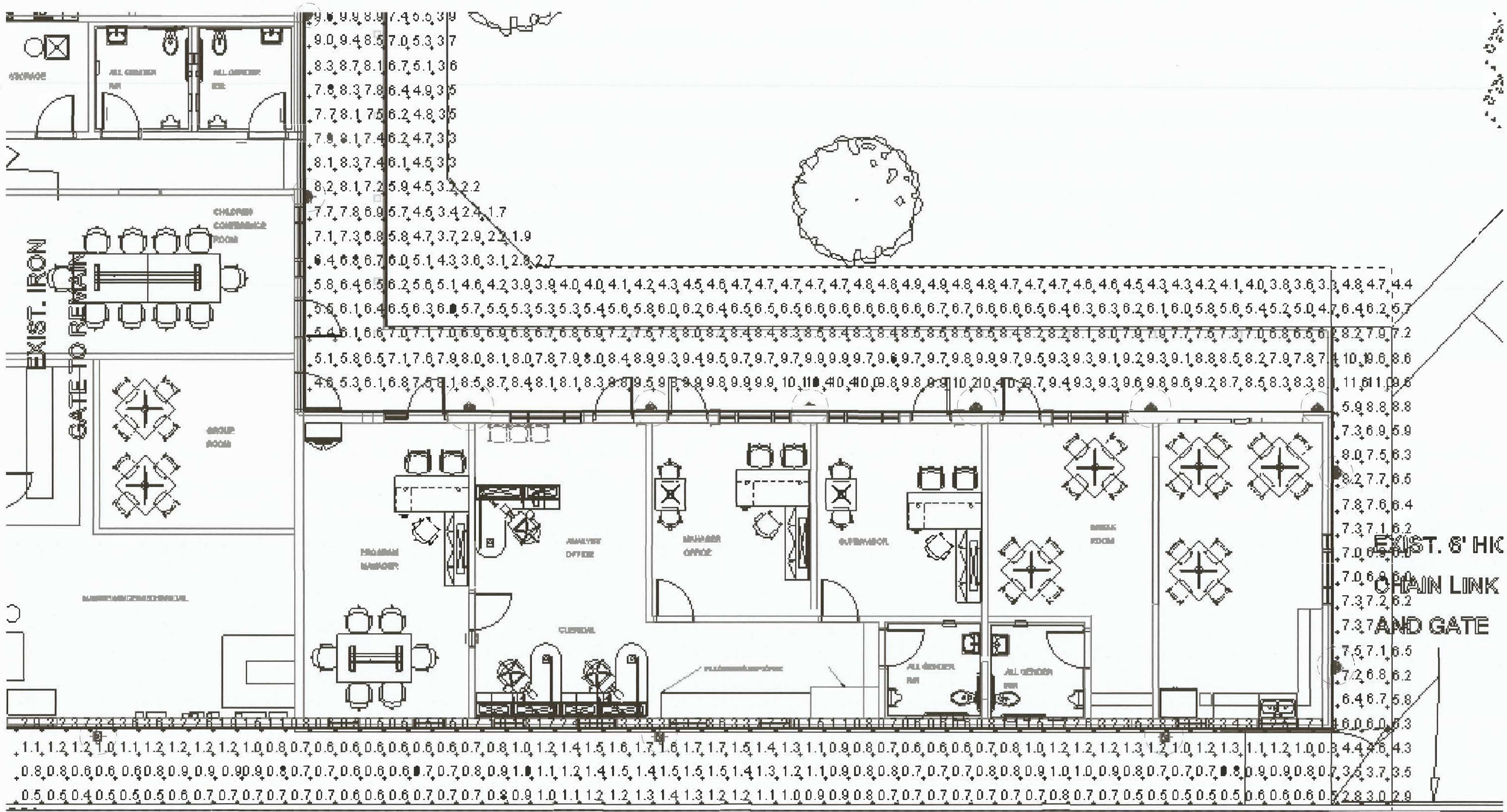
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E2.4

EXTERIOR PHOTOMETRICS

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102 N 8th St El
Centro

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
102 N 8TH ST EL CENTRO	+	4.2 fc	11.7 fc	0.1 fc	117.0:1	42.0:1

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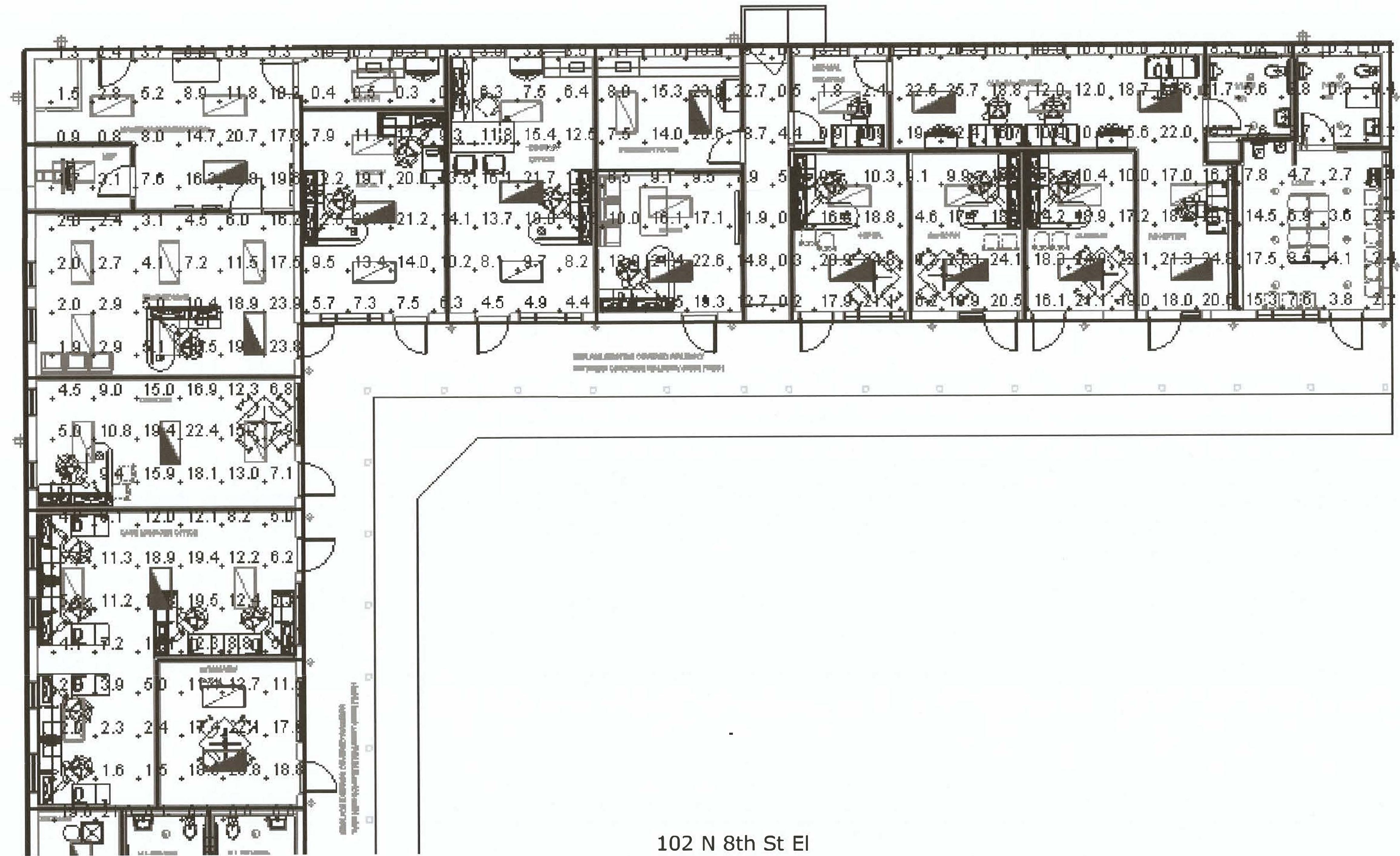
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E2.5

EXTERIOR PHOTOMETRICS

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102 N 8th St El
Centro

Schedule												
Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF
	A		27	Lithonia Lighting	CPX 2x4 4000LM 80CRI 35K A12	CPX 2x4 LED panel 4000LM 80CRI 3500K Prismatic Lens		1	CPX_2x4_4000LM_80CRI_35K_A12.ies	4858	1	1

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
102 N 8th St El Centro	+	10.9 fc	26.7 fc	0.0 fc	N/A	N/A

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PROJECT #: 481-1

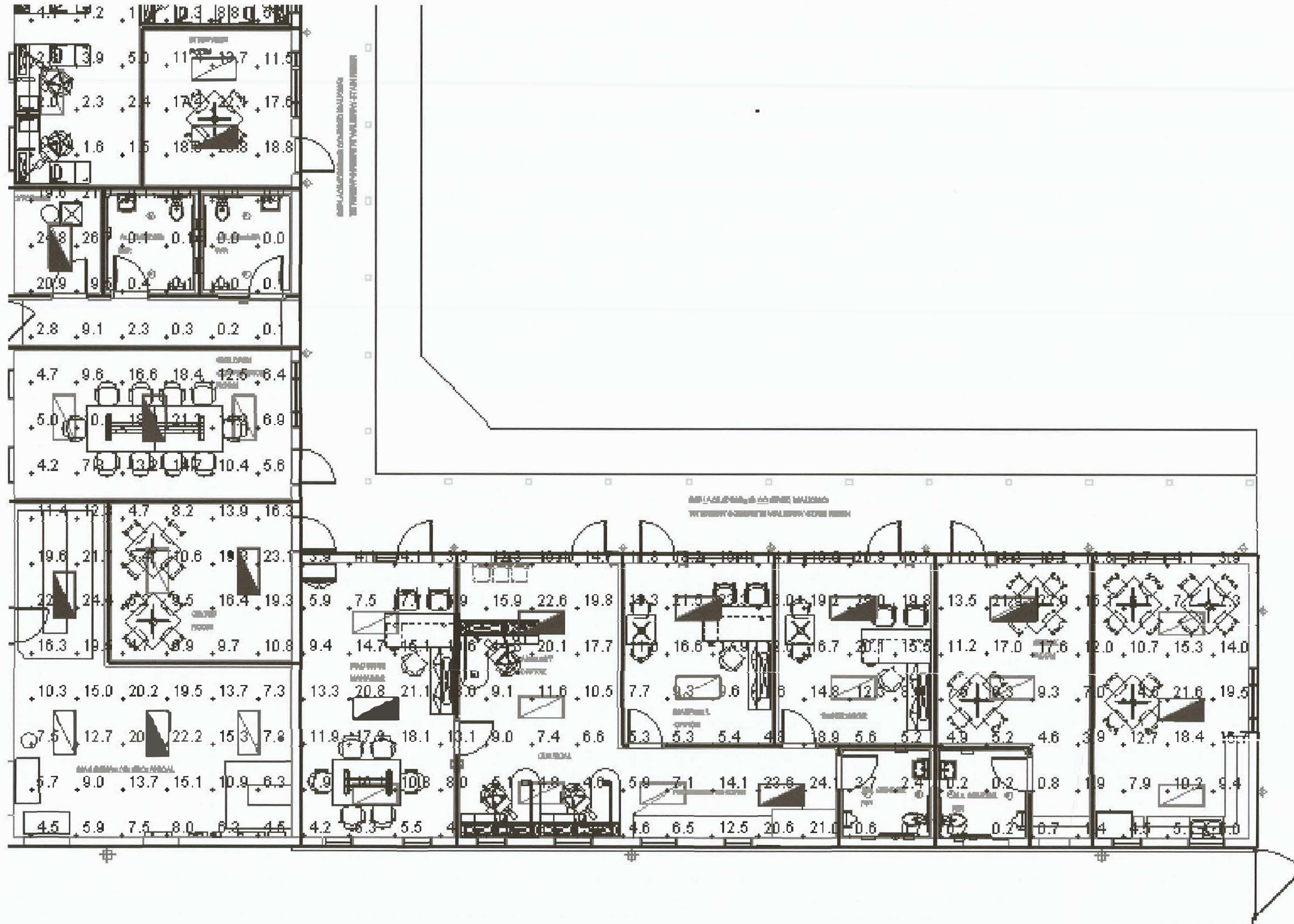
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E2.7

EMERGENCY PHOTOMETRICS

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102 N 8thst St El
Centro

Schedule												
Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF
	A		27	Lithonia Lighting	CPX 2x4 4000LM 80CRI 35K A12	CPX 2x4 LED panel 4000LM 80CRI 3500K Prismatic Lens		1	CPX_2x4_4000LM_80CRI_35K_A12.ies	4858	1	1

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
102 N 8th St El Centro	+	10.9 fc	26.7 fc	0.0 fc	N/A	N/A

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E2.8

EMERGENCY PHOTOMETRICS

Copy Protection

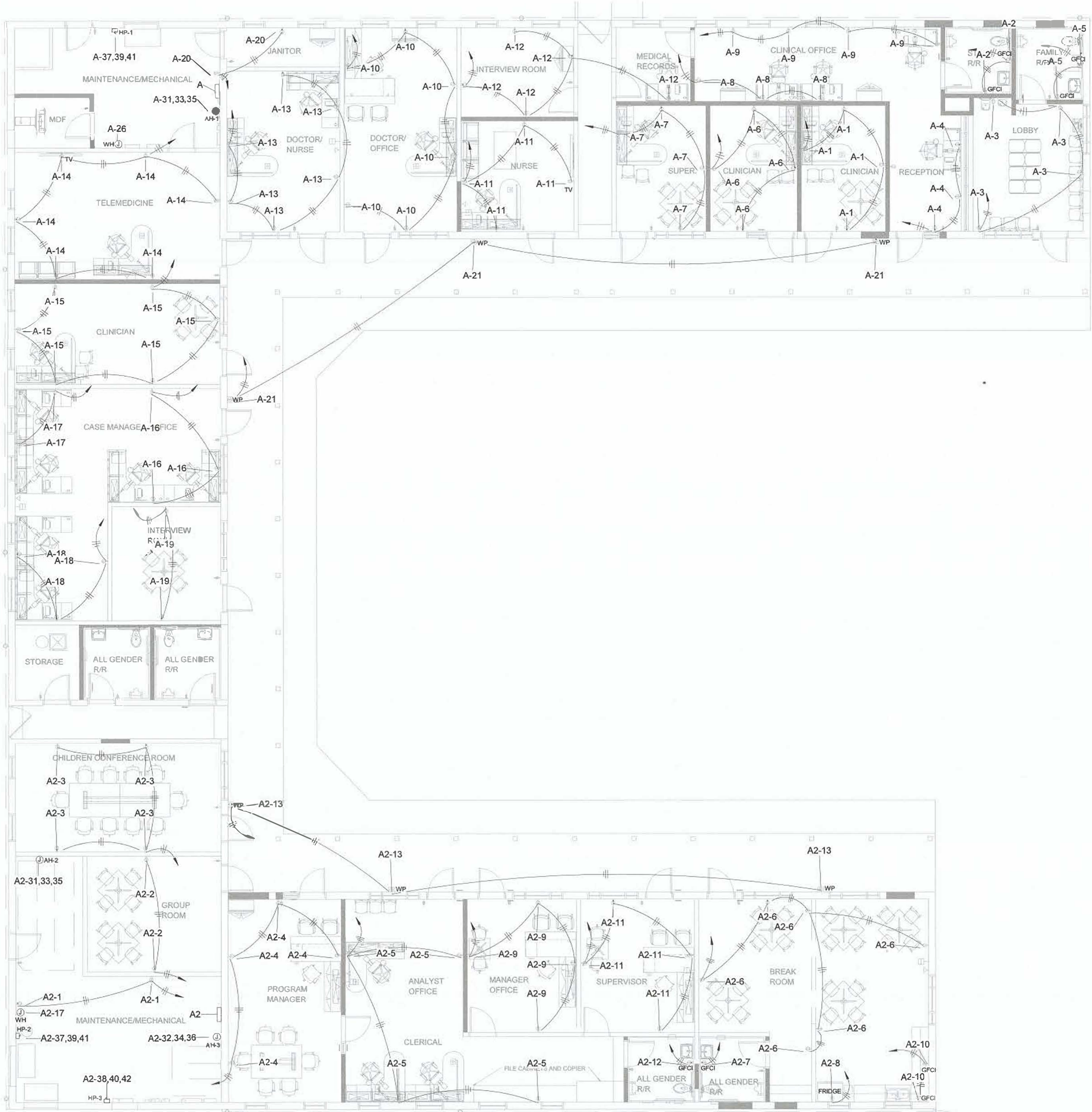
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GENERAL NOTES

1. ALL DUPLEX RECEPTACLES SHALL HAVE A CONTROLLED AND UNCONTROLLED RECEPTACLE IN ALL OFFICES, CONFERENCE ROOMS AND LOBBIES.

LEGEND

- MEDIA PACKAGE
- TELEPHONE OUTLET
- DUPLEX OUTLET



1 POWER PLAN

Scale 1/8" = 1'-0"

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E3.0

POWER PLAN

Copy Protection

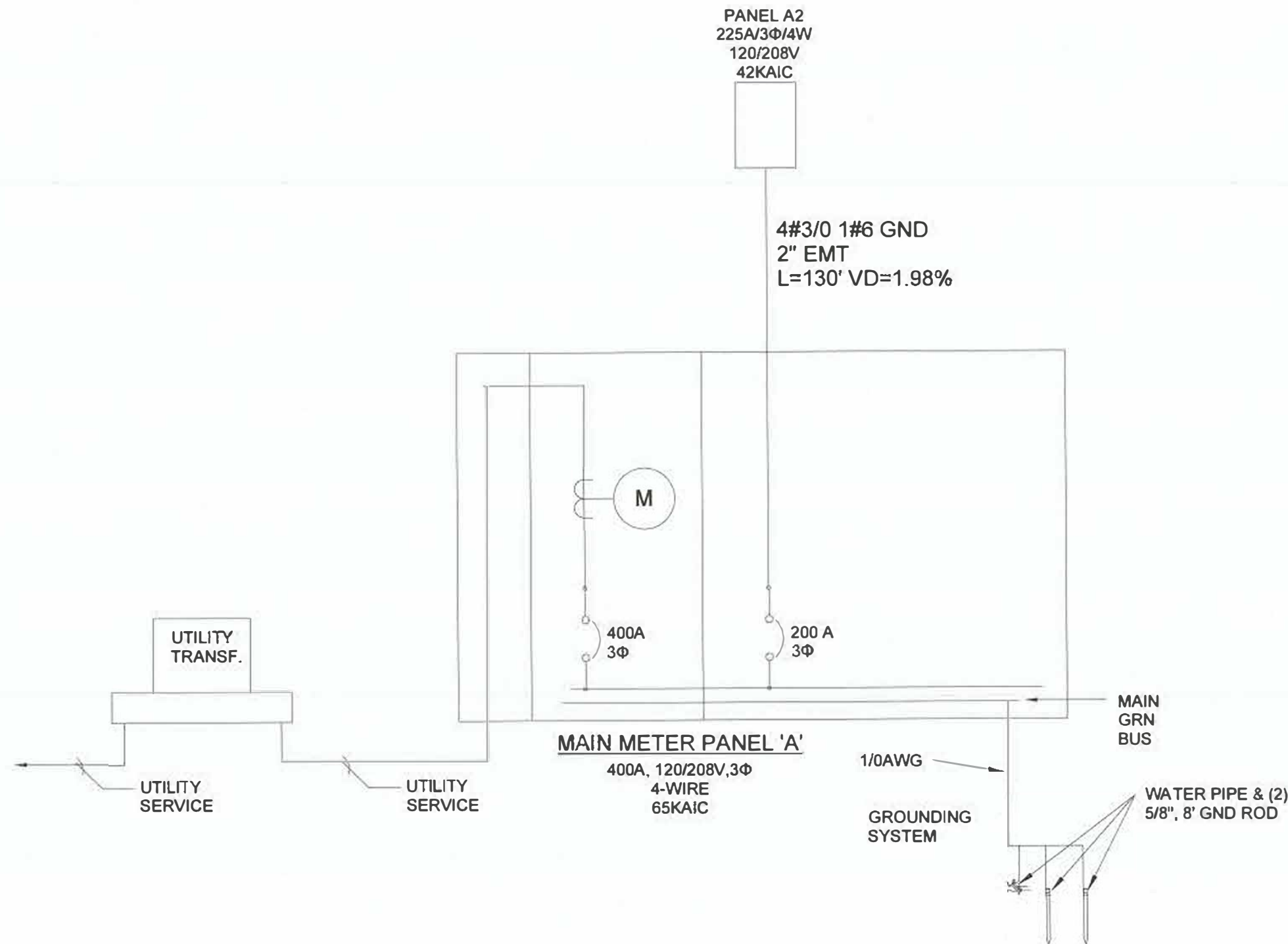
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ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
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GENERAL NOTES

1. INSTALLER TO FIELD VERIFY CONDUCTOR LENGTHS.
2. WIRE SIZES SHALL MATCH CIRCUIT BREAKER AMPACITIES UNLESS NOTED OTHERWISE OR PER MANUFACTURER SPECIFICATIONS.
3. A CURRENT FAULT LETTER SHALL BE REQUIRED FROM ELECTRICAL SERVICE PROVIDER PRIOR TO ORDERING AND INSTALLING OF ANY ELECTRICAL DISTRIBUTION EQUIPMENT TO ENSURE PROPER AIC RATINGS.

ALL PROPRIETARY PRODUCTS/ SPECIFICATIONS SHALL INCLUDE THE FOLLOWING "APPROVED EQUAL OR BETTER" STATEMENT.



Technical Data

Regulatory Codes

NEC Allowable Conductor Ampacity

National Electrical Code

Allowable Conductor Ampacity

Table 310.15(B)(16)
Allowable Ampacities of Insulated Conductors Rated 0 - 2000 Volts, 60° to 90°C (140° to 194°F) Not More Than Three Conductors in Raceway or Cable or Earth (Directly Buried), Based on Ambient Temperature of 30°C (86°F)

Size	60°C (140°F)		75°C (167°F)		90°C (194°F)	
	Type	Types	Type	Types	Type	Types
18 AWG	-	-	-	-	14	-
16 AWG	-	-	-	-	18	-
14 AWG	20*	20*	25*	25*	25*	35*
12 AWG	25*	25*	35*	35*	35*	40*
10 AWG	30	35*	40*	40*	40*	55*
8 AWG	40	50	55	55	55	70
6 AWG	55	65	75	75	75	90
4 AWG	70	85	95	95	95	110
3 AWG	85	100	110	110	110	130
2 AWG	95	115	130	130	130	150
1 AWG	110	130	150	150	150	175
1/2 AWG	125	150	175	175	175	200
2/0 AWG	145	175	195	195	195	225
3/0 AWG	165	200	225	225	225	260
4/0 AWG	195	230	260	260	260	300

250 KCMIL	215	255	290
300 KCMIL	240	285	320
350 KCMIL	260	310	350
400 KCMIL	280	335	380
500 KCMIL	320	380	430
600 KCMIL	335	420	475
700 KCMIL	355	440	520
750 KCMIL	400	475	535
800 KCMIL	410	490	555
900 KCMIL	435	520	585
1000 KCMIL	455	545	615
1250 KCMIL	495	590	665
1500 KCMIL	520	625	705
1750 KCMIL	545	650	735
2000 KCMIL	560	665	750

* Unless otherwise specifically permitted elsewhere in this Code, the overcurrent protection for conductors marked with an asterisk shall not exceed 15 amperes for No. 14 copper, 20 amperes for No. 12 copper, and 30 amperes for No. 10 copper, after any correction factors for ambient temperature and number of conductors have been applied.

Table 310.15(B)(3)(a)
Adjustment Factors for More Than Three Current-Carrying Conductors in a Raceway or Cable.
Where the number of current-carrying conductors in a raceway or cable exceeds three, the allowable ampacities shall be reduced as shown:

Number of Current-Carrying Conductors*	Percent of Table 310.15(B)(1) to be Adjusted for Ambient Temperature (if necessary)
4 - 6	80
7 - 9	70
10 - 20	50
21 - 30	45
31 - 40	40
more than 40	35

* Does not include ground

Example:

• Using Lapp P/N 221007 (10 AWG, 6c + ground, 90°C THHN):
40 Amps × 0.80 = 32 Amps
ampacity @ 30°C Table 310.15(B)(3)(a)

• Using the same P/N at 40°C:
40 Amps × 0.80 × 0.91 = 28 Amps
ampacity @ 30°C Table 310.15(B)(3)(a) Table 310.15(B)(2)(a)

Table 310.15(B)(17)
Allowable Ampacities of Single Insulated Conductors Rated 0 - 2000 Volts, In Free Air, Based on Ambient Air Temperature of 30°C (86°F)

Size	60°C (140°F)		75°C (167°F)		90°C (194°F)	
	Type	Types	Type	Types	Type	Types
18 AWG	-	-	-	-	18	-
16 AWG	-	-	-	-	24	-
14 AWG	25*	30*	35*	35*	35*	40*
12 AWG	30*	35*	40*	40*	40*	55*
10 AWG	40*	50*	55*	55*	55*	70
8 AWG	50	60	70	70	70	90
6 AWG	60	70	80	80	80	105
4 AWG	70	85	95	95	95	120
3 AWG	85	100	110	110	110	140
2 AWG	95	115	130	130	130	165
1 AWG	110	130	150	150	150	190
1/2 AWG	125	150	175	175	175	220
2/0 AWG	145	175	195	195	195	240
3/0 AWG	165	200	225	225	225	280
4/0 AWG	195	230	260	260	260	320

250 KCMIL	340	405	455
300 KCMIL	375	445	505
350 KCMIL	420	505	570
400 KCMIL	465	545	615
500 KCMIL	515	620	700
600 KCMIL	575	660	780
700 KCMIL	630	755	855
750 KCMIL	655	785	885
800 KCMIL	680	815	920
900 KCMIL	720	870	985
1000 KCMIL	780	935	1055
1250 KCMIL	890	1065	1200
1500 KCMIL	980	1175	1325
1750 KCMIL	1070	1280	1445
2000 KCMIL	1155	1385	1560

Table 310.15(B)(2)(a)
Temperature Correction Factors
For ambient temperatures other than 30°C (86°F), multiply the allowable ampacities shown above by the appropriate factor shown below.

Ambient Temperature	60°C	75°C	90°C
30°C	1.00	1.00	1.00
40°C	0.92	0.88	0.91
50°C	0.58	0.75	0.82
60°C	-	0.58	0.71
70°C	-	0.33	0.58
80°C	-	-	-

Branch Panel: A

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 208/120 THREE PHASE
Phases: 3
Wires: 4

A.I.C. Rating: 65,000 A
Mains Type:
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
A-1	Receptacle - CLINIC AN 1	20 A	1	720 VA	360 VA					1	20 A	Receptacle - STAFF RESTROOM	A-2
A-3	Receptacle - LOBBY	20 A	1			720 VA	540 VA			1	20 A	Receptacle - RECEPTION	A-4
A-5	Receptacle - FAMILY RESTROOM	20 A	1					360 VA	720 VA	1	20 A	Receptacle - CLINICIAN 2	A-6
A-7	Receptacle - SUPER	20 A	1	720 VA	540 VA					1	20 A	Receptacle - CLINICAL OFFICE A	A-8
A-9	Receptacle - CLINICAL OFFICE B	20 A	1			720 VA	1080...			1	20 A	Receptacle - DOCTOR / OFFICE 1	A-10
A-11	Receptacle - NURSE	20 A	1					740 VA	900 VA	1	20 A	Receptacle - INTERVIEW / MEDICAL RECORDS	A-12
A-13	Receptacle - DOCTOR / NURSE 1	20 A	1	1080...	1100...					1	20 A	Receptacle - TELEMEDICINE	A-14
A-15	Receptacle - CLINICIAN 3	20 A	1			1080...	540 VA			1	20 A	Receptacle - CASE MANAGER OFFICE A	A-16
A-17	Receptacle - CASE MANAGER OFFICE B	20 A	1					360 VA	540 VA	1	20 A	Receptacle - CASE MANAGER OFFICE C	A-18
A-19	Receptacle - INTERVIEW 2 / STORAGE	20 A	1	360 VA	360 VA					1	20 A	Receptacle - MAINT. / JANITOR	A-20
A-21	Receptacle - EXTERIOR DOCTOR SIDE	20 A	1			540 VA	240 VA			1	20 A	Lighting - NORTH EXTERIOR COURT YARD	A-22
A-23	Lighting - NORTH EXTERIOR SECURITY	20 A	1					75 VA	1863...	1	20 A	Lighting - NORTH SIDE	A-24
A-25					200 VA					1	20 A	WATER HEATER (GAS)	A-26
A-27													A-28
A-29													A-30
A-31	AH-1	20 A	3	1204...									A-32
A-33	--	--	--			1204...							A-34
A-35	--	--	--					1204...					A-36
A-37	HP-1	45 A	3	2856...	1002...					3	200 A	A2	A-38
A-39	--	--	--			2856...	9942...			--	--	--	A-40
A-41	--	--	--					2856...	1004...	--	--	--	A-42
Total Load:				19527 VA		19462 VA		19665 VA					
Total Amps:				163 A		162 A		164 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	25140 VA	100.00%	25140 VA	
Lighting	3625 VA	125.00%	4531 VA	Total Conn. Load: 58653 VA
Receptacle	20920 VA	73.90%	15460 VA	Total Est. Demand: 56242 VA
General Loads	400 VA	100.00%	400 VA	Total Conn. Current: 163 A
HVAC (LARGEST MOTOR)	8568 VA	125.00%	10710 VA	Total Est. Demand Current: 156 A

Notes:

Branch Panel: A2

Location:
Supply From: A
Mounting: Surface
Enclosure: Type 1

Volts: 208/120 THREE PHASE
Phases: 3
Wires: 4

A.I.C. Rating: 42,000 A
Mains Type:
Mains Rating: 225 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
A2-1	Receptacle - MAINT. 2	20 A	1	360 VA	360 VA					1	20 A	Receptacle - GROUP ROOM	A2-2
A2-3	Receptacle - CHILDREN CONFERENCE ROOM	20 A	1			720 VA	720 VA			1	20 A	Receptacle - PROGRAM MANAGER	A2-4
A2-5	Receptacle - ANALYST OFFICE	20 A	1					720 VA	1080...	1	20 A	Receptacle - BREAK ROOM	A2-6
A2-7	Receptacle - BREAK RM RESTROOM	20 A	1	180 VA	180 VA					1	20 A	Receptacle - BREAK RM FRIDGE	A2-8
A2-9	Receptacle - MANAGER OFFICE	20 A	1			720 VA	360 VA			1	20 A	Receptacle - BREAK RM COUNTER	A2-10
A2-11	Receptacle - SUPERVISOR	20 A	1					720 VA	180 VA	1	20 A	Receptacle - OFFICE RESTROOM	A2-12
A2-13	Receptacle - EXTERIOR MANAGER SIDE	20 A	1	540 VA	1260...					1	20 A	Lighting - SOUTH SIDE	A2-14
A2-15	Lighting - SOUTH EXTERIOR COURT YARD	20 A	1			200 VA	75 VA			1	20 A	Lighting - SOUTH EXTERIOR SECURITY	A2-16
A2-17	WATER HEATER (GAS)	20 A	1					200 VA					A2-18
A2-19													A2-20
A2-21													A2-22
A2-23													A2-24
A2-25													A2-26
A2-27													A2-28
A2-29													A2-30
A2-31	AH-2	20 A	3	1204...	1204...							AH-3	A2-32
A2-33	--	--	--			1204...	1204...			--	--	--	A2-34
A2-35	--	--	--					1204...	1204...	--	--	--	A2-36
A2-37	HP-2	45 A	3	2856...	1884...					3	35 A	HP-3	A2-38
A2-39	--	--	--			2856...	1884...			--	--	--	A2-40
A2-41	--	--	--					2856...	1884...	--	--	--	A2-42
Total Load:				10027 VA		9942 VA		10047 VA					
Total Amps:				84 A		83 A		84 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	21497 VA	100.00%	21497 VA	
Lighting	1480 VA	125.00%	1850 VA	Total Conn. Load: 30016 VA
Receptacle	6840 VA	100.00%	6840 VA	Total Est. Demand: 30386 VA
General Loads	200 VA	100.00%	200 VA	Total Conn. Current: 83 A
				Total Est. Demand Current: 84 A

Notes:

Electrical Engineer Of Record

WINSTON ENGINEERING INC

8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com
www.winstoneng.com



PROJECT NAME:

BEHAVIORAL
HEALTH CLINIC
REMODEL

COMMERCIAL

PROJECT ADDRESS:

120 N. 8TH STREET,
EL CENTRO,
CA 92243

PROJECT #: 481-1

REVISION SCHEDULE

ISSUE	DATE
INITIAL SET	08-23-2022

E4.0

SINGLE LINE DIAGRAM

Copy Protection

These drawings and specifications, and ideas, designs and arrangements represented are and shall remain the property of the engineer. No part shall be copied, disclosed to others or used in connection with any work or project other than the specific project for which they have been prepared without written consent of the engineer. Visual contact with these drawings and specifications shall constitute evidence of acceptance of these restrictions. Submittal of documents to public agencies shall not be considered a waiver of Engineer.

STATE OF CALIFORNIA

Indoor Lighting

NRCE-114

CALIFORNIA ENERGY COMMISSION

NRCE-114

METRIC/ACT OF COMPLIANCE

This document is used to demonstrate compliance with requirements in §110.9, §110.17(a), §180.0, §130.2, §240.6, and §241.0(a)(2) for indoor lighting spaces using the prescriptive path.

Project Name:

481-1 102 8 Bm S1[Report Page:

(Page 1 of 6)

Project Address:

Date Prepared:

2022-08-18T21:57:09-04:00

A. GENERAL INFORMATION

01 Project Location (city):

01 Climate Zone:

01 Occupancy Types Within Project (select all that apply):

• Healthcare Facility

• Office

04 Total Unconditioned Floor Area (ft²):

05 Total Unconditioned Floor Area (ft²):

06 # of Stories (inhabitable above Grade):

7-689

0

2

B. PROJECT SCOPE

This table includes only lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §160.6, or §161.0(a)(2) for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces
01	02	03
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)
<input checked="" type="checkbox"/> New Lighting System	Complete Building Method	7689
<input type="checkbox"/> New Lighting System - Parking Garage	N/A	0
Total Area of Work (ft²)	7689	

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §160.6(a)(2)	Allowed Lighting Power per §140.6(b) (Watts)				=	Total Allowed (Watts)	≥	Adjusted Lighting Power per §160.6(a) (Watts)				=	Total Adjusted (Watts) *Inclusions adjustments	D5 must be ≥ D8 §160.6
	01	02	03	04				05	06	07	08			
	Complete Building §140.6(a)(1)	Area Category §140.6(a)(2)	Area Category §140.6(a)(3)	Taken §140.6(a)(3)				Adjustments	PAF Lighting Control Credits §160.6(a)(2) (-)	Total Adjusted (Watts)				
	(See Table I)	(See Table I)	(See Table I)	(See Table I)				(See Table F)	(See Table P)					
Conditioned	4,997.85				=	4,997.85	≥	3,015		=	3015		COMPLIES	
Unconditioned					=		≥			=				

Registration Number:

Registration Date/Time:

Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Non-Exempt Commercial

Report Version: 2019.1.003
Schema Version: rev20200601

Project ID: 72664
Report Generated: 2022-08-18T15:30

STATE OF CALIFORNIA

INDOOR LIGHTING

NRC-LIFE

CERTIFICATE OF COMPLIANCE

Project Name: 481-1102N Rth St

Project Address: 481-1102N Rth St

CA Building Energy Efficiency Standards - 2019 Non-Residential Compliance

Report Version: 2019.1.003

REGISTRATION NUMBER:

REGISTRATION DATE/TIME:

REGISTRATION PROVIDER: Energy Code Ace

CALIFORNIA ENERGY COMMISSION

NRC-LIFE

Page 2 of 6

2022-06-18T21:57:09-07:00

C COMPLIANCE RESULTS

Controls Compliance [See Table H for Details]

COMPLIES

Rated Power Reduction Compliance [See Table I for Details]

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent: designated lighting and all portable lighting in offices.

Designated Wattage: Conditioned Spaces

O1	O2	O3	O4	O5	O6	O7	O8	O9	O10	
Name or Tag	Complete Luminaire Description	Modular (Fixture) Tack	Small Aperture & Color Change	Watts per Luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per §160.0.6(a)(3)	Design Watts	Field Inspector	
									Pass	Fail
2X4 / 2X4 EM	2X4 LED Flat Panel / 2X4 LED Flat Panel with backup battery	No	No	39	Mfr. Spec	69	No	2,691	<input type="checkbox"/>	<input type="checkbox"/>
6"	6" LED Downlight	No	No	18	Mfr. Spec	18	No	324	<input type="checkbox"/>	<input type="checkbox"/>
Total Designated Watts: CONDITIONED SPACES								3,015		

FOOTNOTES: Design Watts for small aperture and color changing luminaires which qualify per §160.0.6(a)(3) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column O5.

² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §320.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

State of California		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting PAF			
NRCC-471-L		NRCC-171-H	
CERTIFICATE OF COMPLIANCE		(Pass 3 of 4)	
Project Name:	483-1 102 N Bth St Report Page	Date Prepared: 2022-08-18T21:57:09+00:00	
Project Address:			

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

O1		O2		O3	
Mandatory Demand Response §180.12(c)	Shut-off Controls §180.3(a)	Field Inspector			
Not Required <= 10,000SF	See Area/Space Level Controls	Pass	Fail		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

O4	O5	O6	O7	O8	O9	I0	I1	I2
Area Description	Complete Building or Area Category Primary Function, Area	Area Controls §180.1(a)	Multi-Level Controls §180.1(b)	Shut Off Controls §180.1(c)	Primary/Sky Light Daylighting §180.1(d)	Secondary Daylighting §180.6(d)	Interlocked Systems §180.6(a)(1)	Field Inspector
		Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	Pass Fail
Whole Building	Office							
							13	
NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. E1X Exception 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §180.1(b)(2)							Plan Sheet Showing Daylight Zones:	

LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

[Each area complying, using the Complete Building or Area Category Methods per §180.6(a), are included in this table. Column 06 indicates if additional lighting power allowances per §180.6(a) or adjustments per §180.6(a) are being used.]

O1	O2	O3	O4	O5	O6
Area Description	Complete Building or Area Category Primary Function/Area	Allowed Density [w/ft²]	Area (ft²)	Allowed Wattage [Watts]	Additional Allowance / Adjustment
Whole Building	Office	0.65	7,689	4,997.85	PAF PAF
TOTALS:			7,689	4,997.85	See Tables J, or p for detail!

Registration Number:	Registration Date/Time:	Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev.20200601	Project ID: Z72664 Report Generated: 2022-08-18 18:57

Electrical Engineer Of Record


WINSTON ENGINEERING INC.

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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
NGLC Title		NGLC Title	
CERTIFICATE OF COMPLIANCE		Page 4 of 6	
Project Name:	483-1 101 N 89 S1	Report Page:	
Project Address:		Date Prepared:	2012-08-18T21:57:09-0A00
J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM			
This section does not apply to this project.			
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE			
This section does not apply to this project.			
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY			
This section does not apply to this project.			
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING			
This section does not apply to this project.			
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS			
This section does not apply to this project.			
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE			
This section does not apply to this project.			
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))			
This section does not apply to this project.			
Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS			
This section does not apply to this project.			
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS			
This section does not apply to this project.			
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)			
This section does not apply to this project.			

STATE OF CALIFORNIA Indoor Lighting		NRCAL-11-E CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE Project Name: 483-1 102 N 8th St Report Page: _____ (Page 5 of 6)		NRCAL-11-E Project Address: _____ Date Prepared: 2022-08-18T21:57:09-07:00	
T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION <i>Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/files/default/documents/Nonresidential_Documents/NRC1/</i>			
Form/Title			
NRCAL-T1-01-E - Must be submitted for all buildings NRCAL-T1-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.			
U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE <i>Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and only with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/files/default/providers.html</i>			
Form/Title		Systems/Spaces to be Field Verified	
NRCAL-U1-02-A - Must be submitted for occupancy sensors and automatic time switch controls.		Whole Building	

Registration Number: _____
 C A Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: _____
 Report Version: 2019.1.001
 Schema Version: 20200901

Registration Provider: Energy Code Aze
 Project ID: 72464
 Report Generated: 2022-08-18T21:57:09

<h2 style="margin: 0;">Indoor Lighting</h2> <p style="margin: 0;">NRCC-014</p>		<p style="margin: 0;">STATE OF CALIFORNIA</p> <p style="margin: 0;">CALIFORNIA ENERGY COMMISSION</p>	
<p style="margin: 0;">CERTIFICATE OF COMPLIANCE</p>		<p style="margin: 0;">NRCC-014</p> <p style="margin: 0;">Page 6 of 6</p>	
<p style="margin: 0;">Project Name: 481+V 102 N Bth St/Project Page:</p>		<p style="margin: 0;">Date Prepared: 2022-08-18T17:57:03-07:00</p>	
<p style="margin: 0;">Project Address:</p>			
<p style="margin: 0;">DOCUMENTATION AUTHOR'S DECLARATION STATEMENT</p>			
<p style="margin: 0;">I certify that this Certificate of Compliance documentation is accurate and complete.</p>			
<p style="margin: 0;">Documentation Author Name: Nick Corley</p> <p style="margin: 0;">Company: Weston Engineering</p> <p style="margin: 0;">Address: 8605 SANTA MONICA BLVD STE 83454</p> <p style="margin: 0;">City/State: WEST HOLLYWOOD, CA 90069</p>		<p style="margin: 0;">Documentation Author Signature: </p> <p style="margin: 0;">Signature Date: 08/23/2022</p> <p style="margin: 0;">CEA HERS Certification Identification (if applicable):</p> <p style="margin: 0;">Phone: 855-932-6600</p>	
<p style="margin: 0;">RESPONSIBLE PERSON'S DECLARATION STATEMENT</p>			
<p style="margin: 0;">I hereby the following under penalty of perjury, under the laws of the State of California:</p> <ol style="list-style-type: none"> 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible design). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with the building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance that is made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation for a building permit(s) for the building owner at all applicable times. 			
<p style="margin: 0;">Responsible Person Name: Anthony Wintgen III</p> <p style="margin: 0;">Company: Weston Engineering Inc.</p> <p style="margin: 0;">Address: 8605 SANTA MONICA BLVD ST 83454</p> <p style="margin: 0;">City/State: WEST HOLLYWOOD, CA 90069</p>		<p style="margin: 0;">Responsible Person Signature: </p> <p style="margin: 0;">Date Signed: 08/23/2022</p> <p style="margin: 0;">License: E20881</p> <p style="margin: 0;">Phone: 855-932-6600</p>	
<p style="margin: 0;">Registration Number:</p>		<p style="margin: 0;">Registration Date/Time:</p>	
<p style="margin: 0;">CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance</p>		<p style="margin: 0;">Registration Provider: Energy Code Ace</p>	
<p style="margin: 0;">Report Number: 2019.2.001</p> <p style="margin: 0;">Schema Version: v20200601</p>		<p style="margin: 0;">Project ID: 72454</p> <p style="margin: 0;">Report Generated: 2022-08-18T17:57:03-07:00</p>	

<h1 style="margin: 0;">BEHAVIORAL HEALTH CLINIC REMODEL</h1>		
<h2 style="margin: 0;">COMMERCIAL</h2>		
<p>PROJECT ADDRESS:</p> <div style="text-align: center; padding: 40px 0;"> <p style="font-size: 1.2em;">120 N. 8TH STREET, EL CENTRO, CA 92243</p> </div>		
<p>PROJECT #: 481-1</p>		
REVISION SCHEDULE		
	ISSUE	DATE

Indoor Lighting Mandatory Measures:

110.9 LIGHTING CONTROLS AND COMPONENTS
ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 130.9.

130.0 GENERAL LUMINAIRE REQUIREMENTS
ALL LIGHTING SHALL BE FACTORY-LABELLED PER 130.0(c).
ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(b).

130.1(a) MANUAL AREA CONTROLS
EACH ROOM OR AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL HAVE LIGHTING CONTROLS THAT ALLOW LIGHTING TO BE MANUALLY TURNED ON AND OFF MANUAL CONTROLS SHALL:

1. BE READILY ACCESSIBLE
2. BE LOCATED IN THE SAME ENCLOSED AREA WITH THE LIGHTING IT CONTROLS.
3. PROVIDE SEPARATE CONTROL OF GENERAL, FLOOR, WALL, WINDOW CASE DISPLAY, ORNAMENTAL AND SPECIAL EFFECTS LIGHTING SO EACH TYPE CAN BE TURNED ON AND OFF SEPARATELY WITHOUT AFFECTING OTHER LIGHTING OR EQUIPMENT.

130.1(b) MULTILEVEL LIGHTING CONTROLS
GENERAL LIGHTING IN ALL ROOMS AND AREAS 100 FT² OR GREATER AND WITH MORE THAN 0.5 WATTS PER FT² OF LIGHTING LOAD SHALL HAVE MULTILEVEL CONTROLS THAT ALLOW LIGHT LEVELS TO BE ADJUSTED UP AND DOWN. CONTROLS SHALL PROVIDE NUMBER OF CONTROL STEPS AND UNIFORM LIGHT LEVELS PER TABLE 130.4-4.

130.1(c)-SHUTOFF CONTROLS
ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY REDUCE LIGHTING POWER WHEN SPACE IS TYPICALLY UNOCCUPIED.

130.1(c)(1): CONTROL REQUIREMENTS
ALL INSTALLED INDOOR LIGHTING SHALL HAVE ALL OF THE FOLLOWING:

- A. CONTROL(S) CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING IN THE SPACE WHEN TYPICALLY UNOCCUPIED (OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, OR OTHER)
- B. SEPARATE CONTROLS FOR LIGHTING ON EACH FLOOR (OTHER THAN STAIRWELLS)
- C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 FT²
- C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 FT²
- D. SEPARATE CONTROLS FOR GENERAL, DISPLAY, ORNAMENTAL, AND DISPLAY CASE LIGHTING

E. AUTOMATIC TIME-SWITCH CONTROLS MAY INCLUDE MANUAL-ON MODE

130.1(c)(2): COUNTDOWN TIMER SWITCHES
COUNTDOWN TIMER SWITCHES ONLY ALLOWED TO MEET SHUTOFF REQUIREMENTS IN CLOSETS <70 FT² AND SERVER AISLES IN SERVER ROOMS. MAXIMUM TIMER SETTINGS: 10 MINUTES FOR CLOSETS, 30 MINUTES FOR SERVER AISLES

130.1(c)(6) PARTIAL OR FULL-OFF OCCUPANT SENSORS
PROVIDE PARTIAL OR FULL-OFF OCCUPANT SENSORS, IN ADDITION TO SHUTOFF CONTROLS PER 130.1(c)(1) AND 130.1(c)(2), IN THE FOLLOWING PLACES:

- LOBBY AREAS AND OPEN AREAS IN WAREHOUSES
- LIBRARY BOOK STACK AISLES
- CORRIDORS AND STAIRWELLS

Indoor Lighting Mandatory Measures:

130.1(i) CONTROL INTERACTIONS

EACH LIGHTING CONTROL INSTALLED TO MEET 130.1 REQUIREMENTS SHALL INCORPORATE THE FUNCTIONS OF OTHER LIGHTING CONTROLS REQUIRED BY THIS SECTION.

1. FOR GENERAL LIGHTING, MANUAL AREA CONTROL SHALL PERMIT THE LEVEL OF LIGHT PROVIDED WHILE LIGHTING IS ON TO BE SET OR ADJUSTED BY CONTROLS SPECIFIED IN 130.1(b), (c), (d) and (e).
2. MANUAL AREA CONTROL SHALL PERMIT SHUTOFF CONTROL TO TURN THE LIGHTING ON OR OFF.
3. MULTILEVEL CONTROL SHALL PERMIT THE AUTOMATIC DAYLIGHTING CONTROL TO ADJUST ELECTRIC LIGHTING IN RESPONSE TO DAYLIGHT.
4. MULTILEVEL CONTROL SHALL PERMIT THE DEMAND RESPONSIVE (DR) CONTROL TO ADJUST LIGHTING DURING A DR EVENT THEN RETURN IT TO THE LEVEL SET BY THE CONTROL AFTER THE EVENT.
5. SHUTOFF CONTROL SHALL PERMIT THE MANUAL AREA CONTROL TO TURN THE LIGHTING ON.
6. AUTOMATIC DAYLIGHTING CONTROL SHALL PERMIT MULTILEVEL LIGHTING CONTROL TO ADJUST THE LIGHTING LEVEL.
7. FOR LIGHTING CONTROLLED BY MULTILEVEL LIGHTING CONTROLS AND OCCUPANT SENSING CONTROLS THAT PROVIDE AUTOMATIC ON-FUNCTION, CONTROLS SHALL PROVIDE A PARTIAL-ON FUNCTION THAT IS CAPABLE OF AUTOMATICALLY ACTIVATING BETWEEN 50-70% OF CONTROLLED LIGHTING POWER.

E5.0
TITLE 24 FORMS
Copy Protection
These drawings and specifications, and ideas, designs and arrangements represented are and shall remain the property of the engineer. No part shall be copied, disclosed to others or used in connection with any work or project other than the specific project for which they have been prepared without written consent of the engineer. Visual contact with these drawings and specifications.

Registration Number:	Registration Date/Time:	Registration Provider: Energy Code Admin
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Project ID: 72464 Report Generated: 2022-08-18 17:32

Registration Number:	Registration Date/Time:	Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200801	Project ID: 72664 Report Generated: 2022-08-18 19:17:32

Outdoor Lighting Mandatory Measures:

110.9 OUTDOOR LIGHTING CONTROLS AND COMPONENTS
ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.

130.0 GENERAL LUMINAIRE REQUIREMENTS
ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c).
ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(d).

130.2(c) CONTROLS FOR OUTDOOR LIGHTING
ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS AND SHALL HAVE THE FOLLOWING FEATURES:

1. AUTOMATICALLY TURNS OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE
2. AUTOMATIC SCHEDULING CONTROLS
 - A. CAPABLE OF REDUCING LIGHTING POWER AT LEAST 50% AND NO MORE THAN 90% AND SEPARATELY CAPABLE OF TURNING LIGHTING OFF DURING UNOCCUPIED PERIODS
 - B. THAT ALLOW SCHEDULING OF AT LEAST TWO NIGHTTIME PERIODS WITH INDEPENDENT LIGHTING LEVELS (MAY INCLUDE OVERRIDE FOR NO MORE THAN 2 HOURS)
 - C. ACCEPTANCE TESTS SHALL VERIFY SCHEDULED OCCUPIED AND UNOCCUPIED
 - D. AUTOMATIC SCHEDULING CONTROLS SHALL BE INSTALLED FOR ALL OUTDOOR LIGHTING.
3. MOTION SENSING CONTROLS
 - A. CAPABLE OF REDUCING LIGHTING POWER AT LEAST 50% AND NO MORE THAN 50% AND SEPARATELY CAPABLE OF TURNING LIGHTING OFF DURING UNOCCUPIED PERIODS
 - B. CAPABLE OF DIMMING OR TURNING OFF LIGHTING NO LONGER THAN 15 MINUTES AFTER AREA IS VACATED AND TURNING LIGHTING ON WHEN AREA BECOMES OCCUPIED
 - C. SINGLE SENSORS CAN CONTROL NO MORE THAN 1,500 WATTS OF LIGHTING POWER
 - D. SHALL BE INSTALLED FOR THE FOLLOWING AND MAY BE INSTALLED FOR OTHER OUTDOOR LIGHTING AND IN COMBINATION WITH OTHER OUTDOOR LIGHTING CONTROLS:

(i) OUTDOOR LUMINAIRES OTHER THAN BUILDING FACADE, ORNAMENTAL LANDSCAPE, OUTDOOR DINING OR OUTDOOR SALES FRONTAGE LIGHTING, WHERE THE DISTANCE TO THE LUMINAIRE IS MOUNTED 24 FEET OR LESS ABOVE GRADE

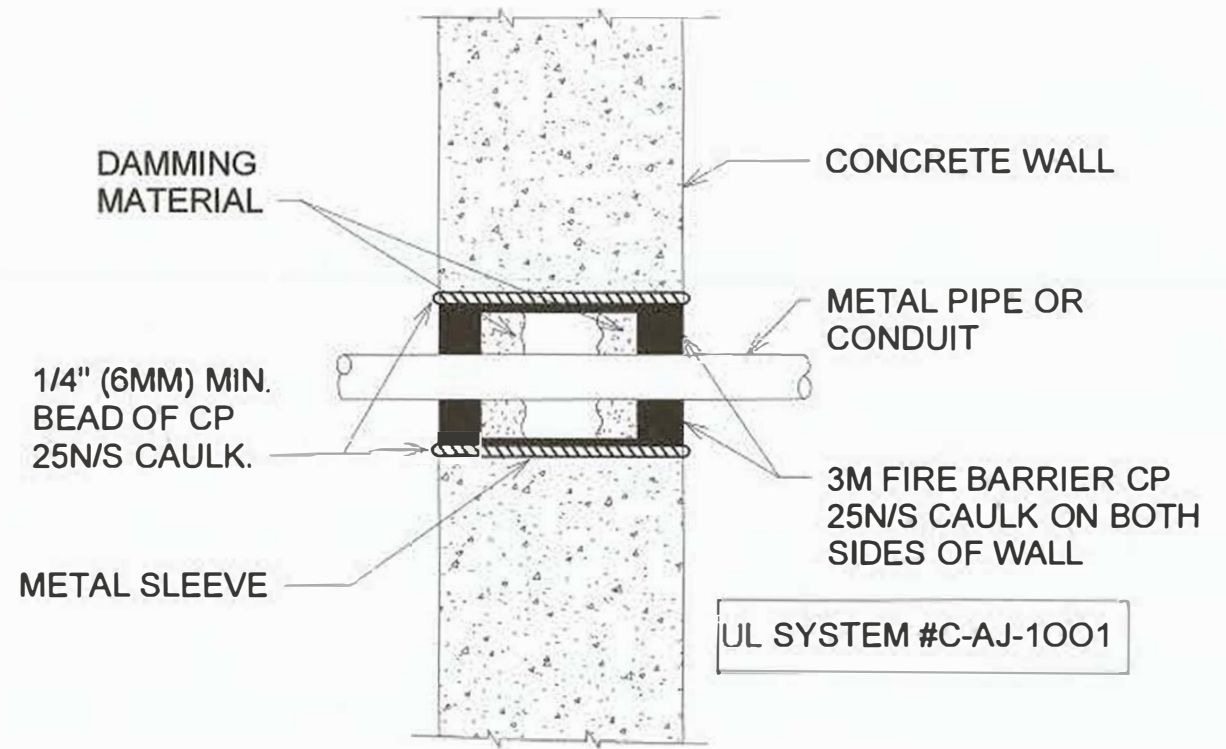
(ii) WALL MOUNTED LUMINAIRES INSTALLED FOR BUILDING FACADE, ORNAMENTAL LANDSCAPE, OUTDOOR DINING LIGHTING THAT HAVE A BIATERALLY SYMMETRIC DISTRIBUTION (AS DESCRIBED IN THE IES HANDBOOK) MOUNTED 24 FEET OR LESS ABOVE GRADE

TITLE 24 FORMS

Copy Protection

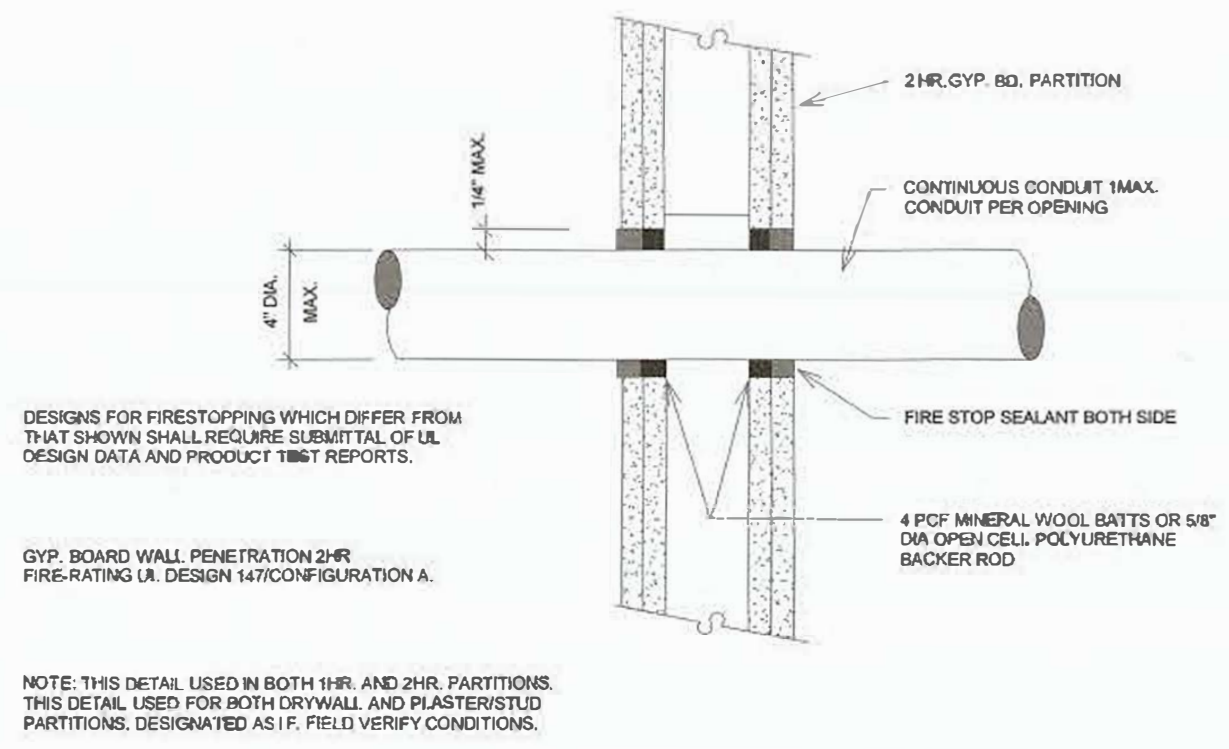
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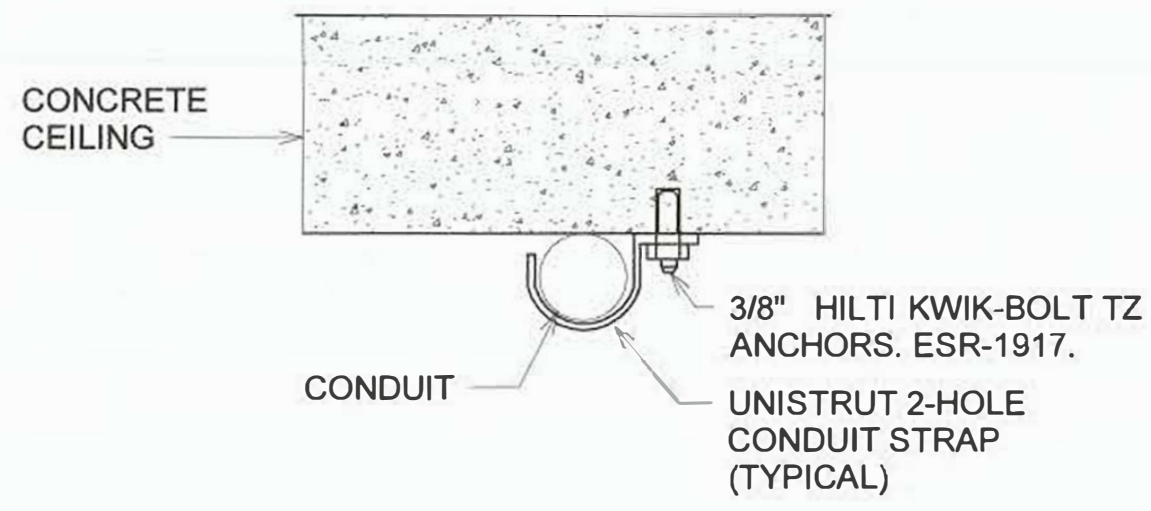
CONDUIT PENETRATION-CONCRETE WALL

Scale 12" = 1'-0"



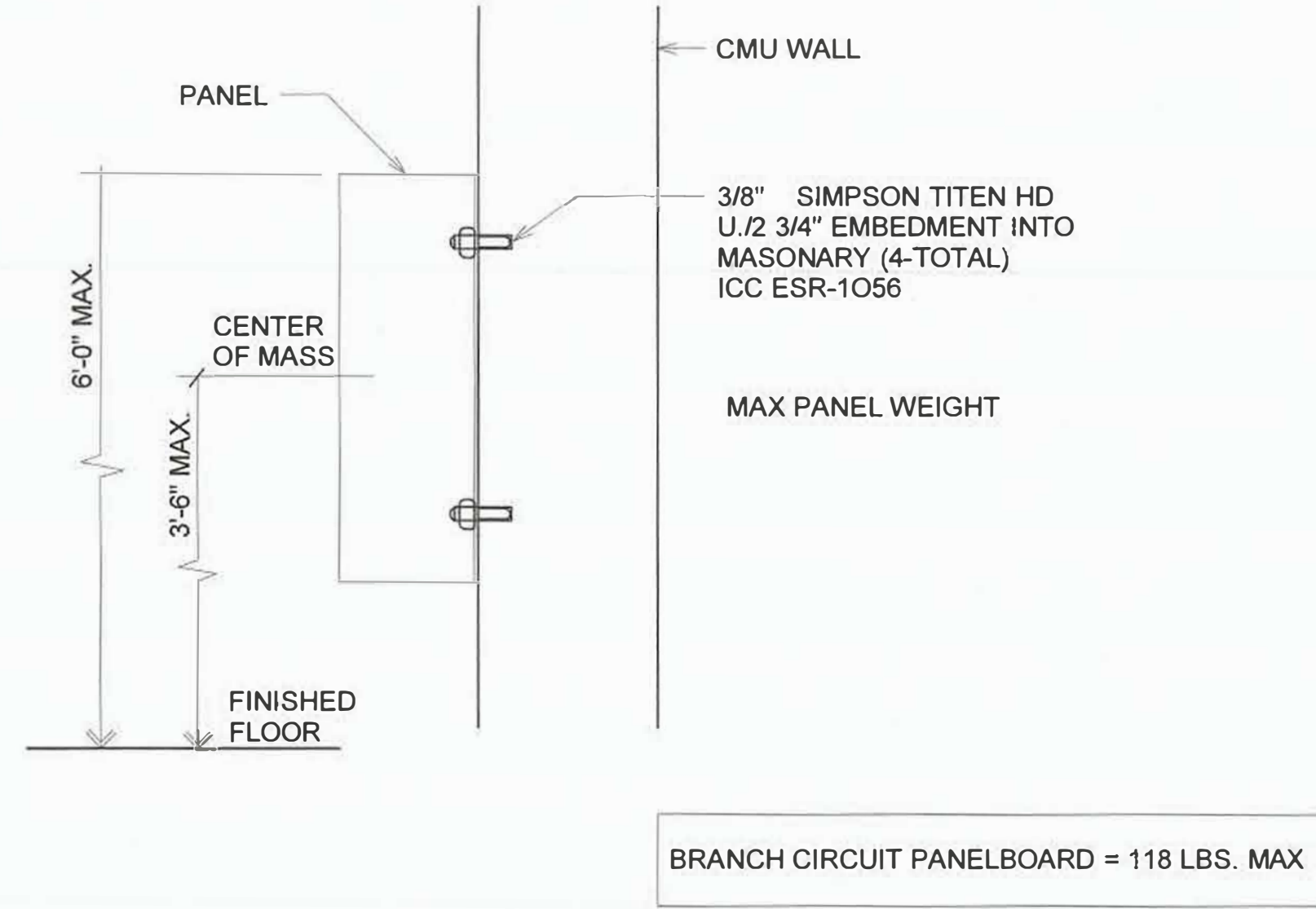
FIRE RATED-CONDUIT PENETRATION DETAIL

Scale 12" = 1'-0"



CONDUIT SUPPORT

Scale 12" = 1'-0"

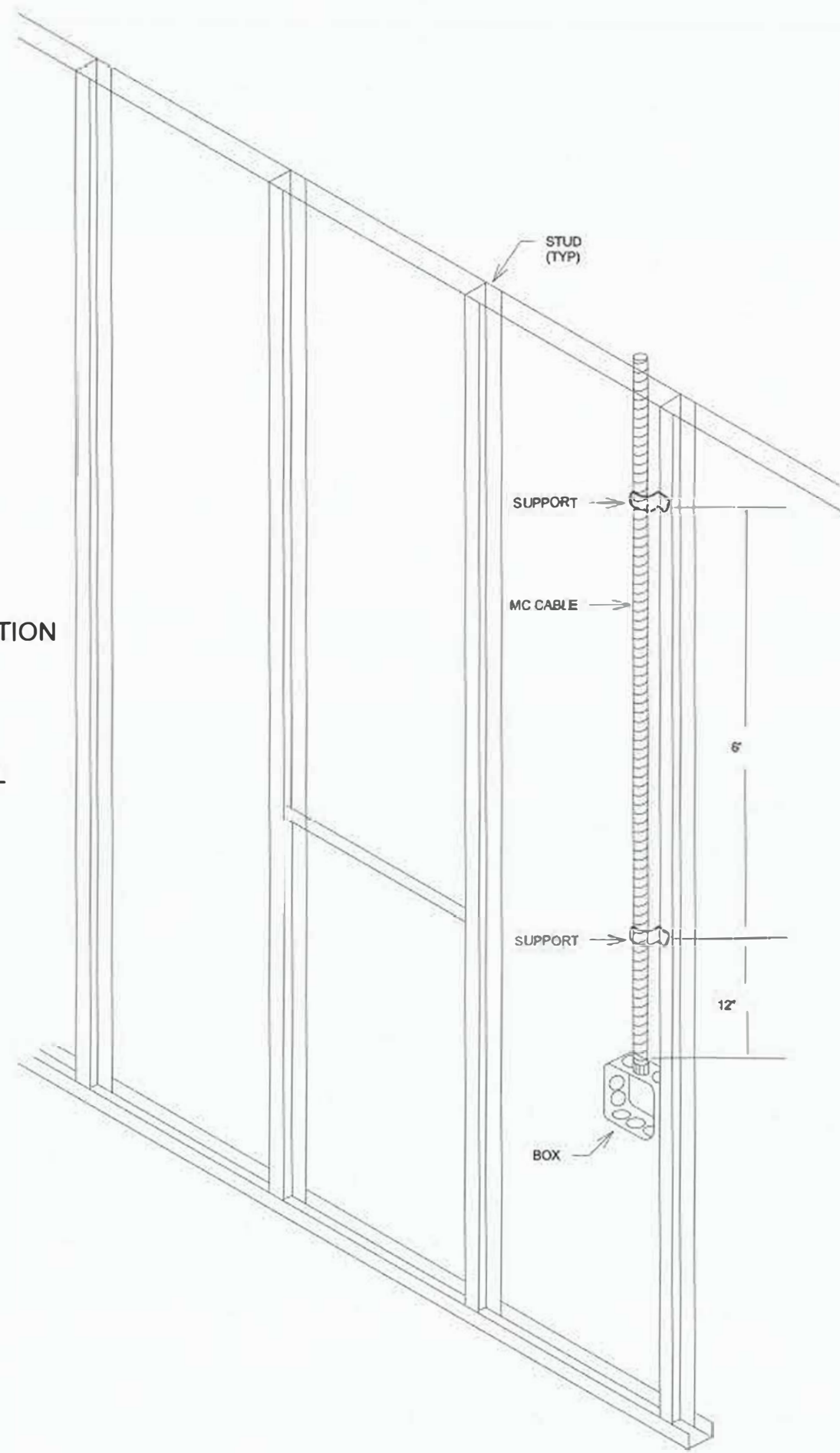


PANEL-WALL MOUNTED

Scale 12" = 1'-0"

USE OF MC CABLES FOR BRANCH WIRING SHALL COMPLY WITH THE FOLLOWING:

1. CONVENTIONAL CONDUIT AND WIRES SHALL BE PROVIDED FROM PANEL BOARD TO A JUNCTION BOX LOCATED IN AN ACCESSIBLE CEILING SPACE.
2. MC CABLE WITH FULLY RATED GROUND WIRE CAN BE RUN FROM JUNCTION BOX TO RESPECTIVE DEVICE. JUNCTION BOX SHALL BE LOCATED AS CLOSE TO THE DISTRIBUTION SIDE AS POSSIBLE.
3. NO MC CABLE SHALL RUN EXPOSED OR VISIBLE.
4. USE MANUFACTURER APPROVED TOOLS AND METHODS FOR CUTTING CABLES. METAL JACKET SHALL BE CAREFULLY CUT WITHOUT DAMAGING THE CONDUCTOR. INSERT A PLASTIC BUSHING TO PROTECT WIRING
5. SUPPORT MC CABLE AND SECURE AT INTERVAL NO EXCEEDING 6'-0". (SEE DETAIL)



MC CABLE BRANCH WIRING DETAIL

Scale 12" = 1'-0"

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SPECIFICATIONS SHALL INCLUDE THE
FOLLOWING "APPROVED EQUAL OR
BETTER" STATEMENT.

Electrical Engineer Of Record

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PROJECT NAME:

BEHAVIORAL
HEALTH CLINIC
REMODEL

COMMERCIAL

PROJECT ADDRESS:

120 N. 8TH STREET,
EL CENTRO,
CA 92243

PROJECT #: 481-1

REVISION SCHEDULE		
△	ISSUE	DATE
	INITIAL SET	08-23-2022

E6.0

ELECTRICAL DETAILS

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1. GENERAL

A. CONTRACTOR SHALL PERFORM ALL WORK SO AS TO CONFORM TO LOCAL, STATE AND NATIONAL CODES, AND THE REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.

B. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO VERIFY LOCATION, ELEVATIONS AND SIZES OF ALL EXISTING PLUMBING AND INFORM THE ARCHITECT OF ANY DISCREPANCIES.

C. FOR EXACT SPECIFICATIONS, MOUNTING HEIGHTS, COLORS, AND LOCATIONS OF ALL PLUMBING FIXTURES, REFER TO ARCHITECTURAL DRAWINGS.

D. ACCURATE AS-BUILT DRAWINGS SHALL BE MADE DURING CONSTRUCTION AND SUBMITTED FOR APPROVAL UPON COMPLETION OF INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION, AND SERVICES NECESSARY FOR THE COMPLETION OF THE WORK.

F. THESE DRAWINGS SHOW THE GENERAL SCHEME OF INSTALLATION AND ARE DIAGRAMMATIC IN SCOPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ARCHITECT AND ALL OTHER TRADES. THIS INCLUDES COORDINATING THE LOCATION, SIZE AND ELEVATION OF ALL OPENINGS.

G. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING AND START-UP OF THE SYSTEM. CONTRACTOR SHALL FILE, SECURE AND PAY FOR ALL NECESSARY APPROVALS, PERMITS AND INSPECTIONS. ALL WORK SHALL BE GUARANTEED TO BE FREE FROM DEFECT FOR ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION BY OWNER. ALL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.

H. THE PLUMBING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE. CONTRACTOR TO COORDINATE TESTS WITH LOCAL OFFICIALS.

I. DETAILS OF CONSTRUCTION AND OF WORKMANSHIP WHERE NOT SPECIFICALLY DESCRIBED HEREIN OR INDICATED ON THE DRAWINGS SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE COMPLETE SYSTEMS, LEFT IN GOOD WORKING ORDER, READY FOR OPERATION.

- A. ALL HOT WATER PIPING SHALL BE INSULATED PER TABLE 123-A, SECTION 123 OF THE BUILDING ENERGY EFFICIENCY STANDARDS, 2019 EDITION.
- B. LAVATORIES IN RESTROOMS SHALL HAVE 0.4 GPM FLOW RESTRICTORS ON HOT WATER SUPPLY. PROVIDE STRAINER DRAIN AND OVERFLOW ON ALL SINKS.
- C. CONDENSATE PIPING SHALL BE INSTALLED AT A SLOPE OF 1%.
- D. SEWER PIPING SHALL BE INSTALLED AT A SLOPE OF 2%.
- E. WRAP ALL IRON AND COPPER PIPE AND FITTINGS BELOW SLAB OR GRADE WITH 8 MIL POLYETHYLENE WRAP AND 6" MINIMUM ENVELOPE OF CLEAN SAND ALL AROUND PIPE IN ACCORDANCE WITH ANSI/AWWA STANDARD C105/A21.5-82.
- F. WATER PIPING SHALL BE TYPE "K" BELOW GRADE TO 5 FEET OUTSIDE OF BUILDING AND TYPE "L" ABOVE GRADE, HARD DRAWN COPPER TUBING, WITH WROUGHT COPPER FITTINGS. BRAZE ALL JOINTS WITH LEAD-FREE BRAZING ALLOY. ALL WATER PIPING SHALL BE INSULATED.
- G. CONDENSATE DRAIN PIPING SHALL BE TYPE "M" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS, 95%5 ANTIMONY/TIN SWEAT JOINTS. RUN CONDENSATE DRAIN PIPING UNDER THE ROOF DECK. INSULATE ALL CONDENSATE DRAIN PIPING WITH BUILDING INTERIOR.
- H. ALL ROOF PENETRATIONS SHALL RECEIVE LEAD PIP FLASHING WITH SCREW CLAMP AND ELASTOMERIC SEALANT AND BE HOT ASPHALT PATCHED WITH 4 PLY. ALL WORK SHALL BE DONE BY AN APPROVED ROOFING CONTRACTOR.
- I. WHERE DEVICES REQUIRING ACCESS (VALVES, CLEANOUTS, ETC.) WOULD OTHERWISE BE RENDERED INACCESSIBLE BY BUILDING CONSTRUCTION, PROVIDE FRAMED ACCESS DOOR. ACCESS DOOR FINISHES SHALL BE COORDINATED WITH ARCHITECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING AND INSTALLATION OF ALL FIXTURES, MATERIALS, PIPING, AND COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERATIONALLY FUNCTIONAL SYSTEM. SCOPE OF WORK SHALL INCLUDE BUT NOT BE LIMITED TO:

- A. INSTALLATION OF ABOVE GROUND SANITARY DRAIN WASTE AND VENT PIPING.
- B. INSTALLATION OF CLEANOUTS IN SANITARY DRAINAGE SYSTEMS.
- C. INSTALLATION OF DOMESTIC HOT AND COLD WATER PIPING INCLUDING ANTI-WATER HAMMER SHOCK ABSORBERS, VALVES, STOP VALVES, FLEX-SUPPLIES, DIELECTRIC UNIONS BETWEEN DISSIMILAR PIPING MATERIALS, ETC.
- D. INSTALLATION OF FIXTURES INCLUDING WALL HANGERS, SUPPORTS, STOP VALVES, FLEX- SUPPLIES, SHOWNS, TRAPS, STRAINERS, FAUCETS, SOAP DISPENSERS, ESCUTCHEONS, SEATS, AND OTHER DEVICES AS DRAWN ON THE DRAWINGS AND INDICATED IN THE SCHEDULE OF PLUMBING FIXTURES.
- E. TESTING OF THE PLUMBING SYSTEM INCLUDING AIR OR WATER TEST OF DRAINAGE SYSTEM ROUGHINGS, SMOKE TEST OF FINISHED DRAINAGE SYSTEM AND PRESSURE TEST OF DOMESTIC WATER SYSTEMS.
- F. DISINFECTING OF THE DOMESTIC WATER SUPPLY SYSTEM.
- G. INSTALLATION OF FIBERGLASS INSULATION, FITTING COVERS, AND JACKETS ON ALL HOT AND COLD DOMESTIC WATER PIPING.
- H. DESIGN, FURNISHING, AND INSTALLATION OF SEISMIC BRACING.
- I. CUTTING AND PATCHING AS REQUIRED.
- J. PERMITS, INSPECTIONS, APPROVALS, AND CERTIFICATES, INCLUDING FEES.
- K. 1 YEAR FULL GUARANTEE OF ALL WORKMANSHIP.

- A. BELOW GRADE SANITARY WASTE AND VENT PIPING SHALL BE ABS SOLID WALL SCHEDULE 40 ASTM D 2661, FITTINGS SHALL BE MANUFACTURED TO ASTM 3311 ABOVE GROUND SANITARY WASTE AND VENT PIPING SHALL BE NO-HUB CAST IRON MANUFACTURED TO ASTM A747 OR CISPI 301.
- B. PIPING ARRANGED IN GROUPS OF TWO OR MORE LINES, WHICH PENETRATE TWO OR MORE FLOORS, SHALL BE ENCLOSED IN SHAFT HAVING A FIRE RESISTANCE RATING IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, 2019 CALIFORNIA BUILDING CODE.
- C. CLEANOUTS FOR SANITARY DRAINAGE SYSTEMS SHALL BE LOCATED IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.
- D. ALL VENT PENETRATIONS THROUGH BUILDING ROOF SHALL BE MADE WATER-TIGHT BY THE USE OF PROPER FLASHING MATERIALS. SUBMIT FLASHING DETAILS FOR APPROVAL BY THE ARCHITECT.
- E. VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE ROOF. VENTS SHALL NOT TERMINATE BELOW OR WITHIN 10' HORIZONTALLY OF ANY DOOR, WINDOW, FRESH AIR INTAKE OR OTHER VENTILATION OPENING. WHERE 10' HORIZONTAL CLEARANCE CANNOT BE MAINTAINED, EXTEND VENT TO AT LEAST 3' ABOVE VENTILATION OPENING.

4. SANITARY SEWER (CONT.)

C. CLEANOUTS FOR SANITARY DRAINAGE SYSTEMS SHALL BE LOCATED IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.

D. ALL VENT PENETRATIONS THROUGH BUILDING ROOF SHALL BE MADE WATERTIGHT BY THE USE OF PROPER FLASHING MATERIALS. SUBMIT FLASHING DETAILS FOR APPROVAL BY THE ARCHITECT.

E. VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE ROOF. VENTS SHALL NOT TERMINATE BELOW OR WITHIN 10' HORIZONTALLY OF ANY DOOR, WINDOW, FRESH AIR INTAKE OR OTHER VENTILATION OPENING. WHERE 10' HORIZONTAL CLEARANCE CANNOT BE MAINTAINED, EXTEND VENT TO AT LEAST 3' ABOVE VENTILATION OPENING.

5. DOMESTIC WATER

A. DOMESTIC COLD AND HOT WATER PIPING SHALL BE TYPE "L" HARD-DRAWN COPPER TUBE. FITTINGS SHALL BE WROUGHT COPPER. SWEAT JOINTS SHALL BE MADE USING 95%-5% LEAD-FREE ANTIMONY/TIN SOLDER.

B. ALL POTABLE WATER PIPING SHALL BE DISINFECTED AS PER AWWA STANDARD C601-54 AND AS REQUIRED BY THE LOCAL BUILDING AND HEALTH DEPARTMENT CODES.

C. ANTI WATER-HAMMER SHOCK ABSORBERS SHALL BE WATTS SERIES 15 SIZED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

D. PROVIDE STOP VALVES FOR ALL DOMESTIC WATER CONNECTIONS TO FIXTURES EXCEPT WHERE GATE VALVES ARE INDICATED ON THE DRAWINGS OR FAUCET IS PROVIDED WITH INTEGRAL STOPS.

E. PROVIDE CHROME PLATED, BRASS ANGLE STOP VALVES FOR ALL FIXTURES NOT HAVING INTEGRAL STOPS.

F. ALL PIPE, FITTINGS, FIXTURES, ETC. THAT CONTACT POTABLE WATER FOR HUMAN CONSUMPTION SHALL SHOW APPROVAL TO NSF 61, ANNEX G. REFERENCE SECTION 604.11, CALIFORNIA PLUMBING CODE, 2019 EDITION, AND HEALTH AND SAFETY CODE SECTION 116875.

A. PIPING FOR PRIMARY AND SECONDARY CONDENSATE DRAINAGE SHALL BE HARD DRAWN COPPER TUBE, MINIMUM DWV WEIGHT.

B. FITTINGS FOR CONDENSATE DRAINAGE PIPING SHALL BE WROUGHT COPPER WITH 95/5% ANTIMONY/TIN SWEAT JOINTS.

C. TRAP SEAL DEPTH FOR AIR CONDITIONING CONDENSATE DRAINS SHALL NOT BE LESS THAN:

AC UNIT STATIC PRESSURE	MIN. TRAP SEAL DEPTH
LESS THAN 1" W.C.	3"
1" TO 2" W.C.	4"
MORE THAN 2" W.C.	6"

- A. GAS SYSTEM SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS. VALVE SHALL BE LUBRICATED PLUG TYPE, SIMILAR TO CRANE #250.
- B. ALL BRANCH CONNECTIONS SHALL BE MADE ON THE TOP OR SIDE OF HORIZONTAL LINES.
- C. GAS PIPING SHALL NOT BE RUN IN OR THROUGH SUPPLY AIR DUCTS, CLOTHES CHUTES, CHIMNEYS, VENTS, OR DUMBWAITERS.
- D. VALVES, UNIONS OR RUNNING THREAD SHALL NOT BE LOCATED IN ANY AIR PLENUM.
- E. PORTIONS OF GAS PIPING SYSTEMS INSTALLED IN CONCEALED LOCATIONS SHALL NOT HAVE UNIONS, TUBING FITTINGS, OR RUNNING THREADS.
- F. HANGERS AND SUPPORTS SHALL BE OF MATERIAL OF SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED. HANGERS AND STRAPPING MATERIAL SHALL BE OF SIMILAR MATERIALS AS THE PIPING TO AVOID GALVANIC ACTION.
- G. INTERVAL OF SUPPORT: GAS PIPING SHALL BE SUPPORTED AT DISTANCES NOT EXCEEDING THE SPACING SPECIFIED IN TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.
- H. PROVIDE INDIVIDUAL VALVE FOR EACH GAS OUTLET. THE VALVE SHALL BE ACCESSIBLE AND ADJACENT TO THE APPLIANCE.
- I. PROVIDE A UNION BETWEEN EACH APPLIANCE AND THE APPLIANCE GAS VALVE.
- J. GAS OUTLETS WHICH DO NOT CONNECT TO APPLIANCES SHALL BE CAPPED GAS-TIGHT.
- K. PROVIDE A DRIP LEG AHEAD OF EACH APPLIANCE SHUTOFF VALVE.
- L. PORTIONS OF THE GAS PIPING SYSTEM INSTALLED IN CONCEALED LOCATIONS SHALL BE TESTED BEFORE THE PIPING IS COMPLETELY CONCEALED.
- M. THE GAS PIPING SYSTEM SHALL BE TESTED WITH AIR OR AN INERT GAS. THE SYSTEM SHALL BE TESTED TO A PRESSURE OF 1 1/2 TIMES THE SYSTEM WORKING PRESSURE, BUT NOT LESS THAN 3 PSI. GAS PIPING SYSTEMS SHALL MAINTAIN THE FULL-TEST PRESSURE FOR A PERIOD OF 10 MINUTES.
- N. THE GAS PIPING SYSTEM SHALL BE PURGED TO A SAFE LOCATION. PIPING SHALL NOT BE PURGED INTO THE COMBUSTION CHAMBER OF AN APPLIANCE.

A. ALL FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE PIPING SYSTEM. SEE "FIXTURES" SECTION OF "NOTES AND SPECIFICATIONS" AND FIXTURE SCHEDULE NOTES.

TYPE OF PIPING	MAXIMUM SPACING
HUBLESS CAST IRON SOIL LINES	AT BASE AND EACH FLOOR NOT TO EXCEED 15'
THREADED STEEL PIPE	AT EVERY OTHER FLOOR NOT TO EXCEED 25'
COPPER TUBE	AT EVERY FLOOR NOT TO EXCEED 10'
SCHEDULE 40 PVC	AT EVERY FLOOR PLUS MID-FLOOR GUIDES
PROVIDE RISER CLAMPS, WALL BRACKET HANGER, ETC. AS REQUIRED	

TYPE OF PIPING	MAXIMUM SPACING
HUBLESS CAST IRON SOIL PIPE	AT EVERY OTHER JOINT (EVERY JOINT WHERE OVER 4')
THREADED STEEL PIPE (3/4" OR LESS)	AT 10' INTERVALS
THREADED STEEL PIPE (1" OR LARGER)	AT 12' INTERVALS
COPPER TUBE (1-1/2" OR LESS)	AT 6' INTERVALS
COPPER TUBE (2" OR LARGER)	AT 10' INTERVALS
SCHEDULE 40 PVC	AT 4' INTERVALS

E. PROVIDE CAPABILITY FOR EXPANSION AND CONTRACTION IN ALL PIPING AS INDICATED BELOW:

TYPE OF PIPING	TYPE OF PROVISIONS
DRAIN LINES IN UNHEATED AREAS	EXPANSION FITTING AT 125'
DOMESTIC HOT WATER LINES	EXPANSION LOOP AT 100'

1. ALL CONSTRUCTION AND MATERIALS SHALL BE AS SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, PERMITS AND OTHER CONTRACT DOCUMENTS
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF ALL NEW CONSTRUCTION ON THE SITE. VERIFY
3. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS, AND VERIFY EXACT LOCATIONS AND ELEVATIONS OF PIPING POINTS ON CONNECTION BY MEANS OF PHYSICAL EXCAVATION AND SELECTIVE DEMOLITION BEFORE STATING WORK. SHOULD A DISCREPANCY APPEAR IN THE CONTRACT DOCUMENTS OR BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED
4. SEWER, WATER, AND STORM DRAIN SYSTEMS INDICATED IN THESE DRAWINGS SHALL EXTEND TO PLUMBING/CIVIL POINTS OF CONNECTION AT 5' OUTSIDE OF THE BUILDING(S) UNLESS OTHERWISE NOTED. CONTINUATION OF THESE PIPING SYSTEMS ARE IDENTIFIED ON THE CIVIL DRAWINGS WITH CORRESPONDING ASSOCIATED MATERIALS SPECIFIED UNDER A SEPARATE SECTION OF THE PROJECT SPECIFICATIONS. ALL SUCH PIPING SHALL BE INSTALLED IN A MANNER TO PROVIDE PROPER CONNECTION TO THE INVERT ELEVATIONS INDICATED ON CIVIL DRAWINGS. WHERE SIZES DIFFER BETWEEN PLUMBING AND CIVIL DRAWINGS, CONTRACTOR SHALL PROVIDE TRANSITION FITTINGS AS NECESSARY TO ALLOW FOR PROPER CONNECTION
5. HORIZONTAL SOIL, WASTE, GREASE WASTE, AND TRAP PRIMER PIPING WITHIN THE BUILDING SHALL BE INSTALLED CONCEALED WITHIN WALLS, BELOW FINISHED FLOOR, OR BELOW FINISH SLAB AS APPLICABLE UNLESS NOTED OTHERWISE. ALL OTHER HORIZONTAL PIPING WITHIN BUILDING SHALL BE INSTALLED CONCEALED ABOVE CEILING OR WITHIN WALL AS APPLICABLE UNLESS NOTED OTHERWISE. ALL VERTICAL PIPING SHALL BE INSTALLED CONCEALED WITHIN WALLS UNLESS NOTED OTHERWISE. NO PIPING SHALL BE INSTALLED IN EXPOSED LOCATIONS UNLESS SPECIFICALLY NOTED AS SUCH ON PLANS
6. HORIZONTAL CONDENSATE PIPING SHALL SLOPE AT 1/8" PER FOOT UNLESS NOTED OTHERWISE
7. NATURAL GAS PIPE SIZING CALCULATIONS ARE BASED ON A CALORIC CONTENT OF 1,000 BTU'S PER CUBIC FOOT.
8. PIPING BETWEEN EACH PLUMBING FIXTURE AND THE NEAREST BRANCH OR MAIN PIPING RUN SHALL BE SIZED TO MATCH THE CORRESPONDING FIXTURE SCHEDULE CONNECTION SIZE AT A MINIMUM UNLESS NOTED AS A LARGER SIZE ON PLANS. PIPE HEADERS IN WALLS SERVING BANKS OF FIXTURES SHALL BE FULL LINE SIZE FROM THE UPSTREAM END OF THE BRANCH LINE TO THE END TERMINAL UNLESS NOTED OTHERWISE.
9. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS, ROUGH IN DIMENSIONS, AND MOUNTING HEIGHTS OF ALL FIXTURES, EQUIPMENT, ACCESS PANELS, HOSE BIBBS, RECESSED HOSE BIBBS, OVERFLOW DRAIN TERMINATION POINTS, AND OTHER EXPOSED PLUMBING ELEMENTS. WHERE DIMENSIONS ARE NOT INDICATED, SEEK ARCHITECT'S DIRECTION AND/OR APPROVAL
10. ACCESS PANELS:
 - A. WHERE POSSIBLE USE SAME ACCESS PANEL FOR SHUT-OFF VALVES, MIXING VALVES, TRAP PRIMER AND WATER HAMMER ARRESTORS AND/OR OTHER INTERIOR WALL COMPONENTS WHEN LOCATED DIRECTLY ADJACENT IN SAME IMMEDIATE VICINITY
11. CLEANOUTS:
 - A. PROVIDE CLEANOUTS PER CPC
 - B. INTERIOR CLEANOUTS SHALL BE WALL CLEANOUTS RATHER THAN FLOOR CLEANOUTS UNLESS OTHERWISE NOTED. CLEANOUTS SHALL BE READILY ACCESSIBLE AND SHALL BE CAREFULLY COORDINATE WITH CASEWORK, EQUIPMENT, AND OTHER ITEMS TO AVOID CONFLICT. NOT ALL REQUIRED CLEANOUTS ARE INDICATED ON PLANS. WALL CLEANOUTS IN FINISHED SPACES SHALL BE INSTALLED IN ACCESS PANELS. SEE SPECIFICATIONS FOR ACCESS PANEL REQUIREMENTS
12. EXTERIOR YARD BOXES AND CLEANOUTS SHALL BE INSTALLED AT EXACT LOCATIONS INDICATED ON PLANS. IN THE EVENT OF A CONFLICT OR DISCREPANCY, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED.
13. EXTERIOR WATER SHUT OFF VALVES AND GAS SHUT-OFF COCKS SHALL BE INSTALLED WITHIN CONCRETE YARD BOXES. YARD BOX AND CLEANOUT COVERS SHALL BE CLEARLY STAMPED WITH "WATER", "GAS", OR "SEWER" AS APPLICABLE. YARD BOXES SHALL BE EQUIVALENT TO "CHRISTY" MODEL NO. 804. VALVES SHALL BE INSTALLED AND PROPERLY POSITIONED WITHIN YARD BOX TO ALLOW FOR FULL RANGE OF OPERATION. MAINTENANCE, REPAIR, AND REPLACEMENT, ALL YARD BOXES AND CLEANOUT COVERS SHALL ALIGN WITH SCORED HARDSCAPE JOINTS PER LANDSCAPE PLANS. YARD BOX SHALL BE CONCRETE. SEWER CLEANOUT COVERS SHALL BE BRASS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
14. VERIFY EXACT LOCATIONS OF ALL MECHANICAL AND/OR OTHER EQUIPMENT INSTALLED BY OTHERS AND REQUIRING PLUMBING CONNECTIONS PRIOR TO ORDERING OF MATERIALS OR INSTALLATION. COORDINATE EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS WITH OTHER INSTALLING CONTRACTORS AS APPLICABLE PRIOR TO INSTALLATION.
15. ADA LAVATORIES AND SINKS SHALL BE PROVIDED WITH ADA INSULATED TRAP AND SUPPLY COVERS AS SPECIFIED
16. ADA WATER CLOSETS SHALL BE INSTALLED WITH FLUSH VALVE ACTUATOR HANDLE LOCATED ON THE WHEEL CHAIR ACCESS SIDE
17. SHUT OFF VALVES, SHUT OFF COCKS, WATER CONTROL DEVICES, CLEANOUTS, AND OTHER PIPING APPURTENANCES SHALL BE THE SAME SIZE AS PIPING SERVED UNLESS NOTED OTHERWISE
18. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL MANDATORY MEASURES AND ASSOCIATED REQUIREMENTS
19. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE RATED ASSEMBLIES. PROVIDE FIRESTOPPING AT PENETRATIONS THROUGH FIRE RETARDANT CONSTRUCTION IN ACCORDANCE WITH SPECIFICATIONS
20. PENETRATIONS OF FIRE RESISTIVE WALLS, FLOORS-CEILINGS, AND ROOF CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTION 714
21. DOMESTIC WATER PIPING AND COMPONENTS SHALL BE PROVIDED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA A 1953 LEGISLATION, WHICH LIMITS THE ALLOWABLE LEAD CONTENT IN CERTAIN DOMESTIC WATER SYSTEM COMPONENTS.

- P0.1 PLUMBING NOTES AND LEGENDS
- P0.2 PLUMBING SCHEDULES
- P1.0 PLUMBING FLOOR PLANS
- P1.1 PLUMBING FLOOR PLANS
- P1.2 PLUMBING FLOOR PLANS
- P1.3 PLUMBING FLOOR PLANS
- P1.4 PLUMBING ROOF PLAN
- P2.0 PLUMBING DETAILS



COMMERCIAL

120 N. 8TH STREET,
EL CENTRO,
CA 92243

[illegible]

P0.1

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EXISTING MAIN WATER LINE:

VERIFY IF THE MAIN WATER LINE FROM THE EXISTING WATER METER TO THE BUILDING IS 2"; IF IT IS SMALLER THAN 2" REPLACE THE WATER LINE FROM THE METER TO WHERE IT ENTERS THE BUILDING.

PLUMBING FIXTURE CALCULATION

MARK	DESCRIPTION	QTY	2019 CPC APPENDIX A			
			FU EACH		FU TOTAL	
			WASTE	WATER	WASTE	WATER
WC-1	WATER CLOSET (FV)	6	4	5	24	30
L-1	LAVATORY	8	1	1	8	8
U-1	URINALS	6	2	4	12	24
FD-1	FLOOR DRAIN	2	2	-	4	-
DF-1	DRINKING FOUNTAIN	2	.5	.5	.5	1
MS-1	MOP SINK	1	3	3	-	3
TOTALS =			48.5		66	

FROM TABLE A103.1(2) OF THE CPC, 66 FIXTURE UNITS IS EQUIVALENT TO 57 GPM. FROM TABLE A105.1 (1) OF THE CPC TO KEEP THE PRESSURE DROP AT LESS THAN 4 PSI PER 100 FEET, 55 GPM WILL NEED A 2" MAIN WATER LINE.

THE EXISTING OCCUPY WAS A HOTEL, IT HAD 17 WATER CLOSETS, 16 LAVATORIES, ONE URINAL, ONE DRINKING FOUNTAIN FOR A TOTAL OF TOTAL OF 53 FIXTURE UNITS OR 51 GPM.

FROM TABLE 703.2 OF THE CPC, 48.5 FIXTURE UNTIS WILL NEED A 4" SEWER MAIN, THE EXISTING MAIN SEWER LINE IS 4" SO WE WILL CONNECT TO THIS ONE.

ALSO FROM TABLE 703.2 THE REQUIRED VENT FOR 48.5 FIXTURE UNITS WILL BEA 3" VENT, A 3" VENT WILL BE USED. WE WILL USE THREE 2" VENT BECAUSE OF THE BUILDING DESIGN.

HOT PLUMBING FIXTURE CALCULATION

MARK	DESCRIPTION	QTY	2019 CPC APPENDIX A	
			FU EACH	FU TOTAL
			HOT WATER	HOT WATER
WC-1	WATER CLOSET (FV)	6	-	-
L-1	LAVATORY	8	0.5	4
U-1	URINALS	6	-	-
FD-1	FLOOR DRAIN	2	-	-
DF-1	DRINKING FOUNTAIN	2	-	-
MS-1	MOP SINK	1	1.5	1.5
TOTALS =			5.5	

FROM TABLE A103.1(2) OF THE CPC, 5.5 FIXTURE UNITS IS EQUIVALENT TO 5.5 GPM. FROM TABLE A105.1 (1) OF THE CPC TO KEEP THE PRESSURE DROP AT LESS THAN 4 PSI PER 100 FEET, 5.5 GPM WILL NEED A 3/4" MAIN HOT WATER LINE.

WE WILL USE TWO INSTANTANEOUS TANKLESS WATER HEATERS MODEL RINNAI RU130I WILL BE USED. EACH HEATER WILL USE 130 MBH OF HEAT, 38 WATTS AND IT WILL USE A CONCENTRIC 2X4 PIPES FOR THE COMBUSTION AND VENT.

SYMBOLS AND ABBREVIATIONS

WCO VTR SOV TYP		DOMESTIC COLD WATER PLUMBING
		DOMESTIC HOT WATER PLUMBING
		VENT PLUMBING
		SANITARY/WASTE PLUMBING
		WALL CLEANOUT
		VENT TO ROOF
		SHUT OFF VALVE
		TYPICAL DETAIL CALLOUT
		PIPE UP
		PIPE DOWN
(TYP)		BOTTOM CONNECTION
		TOP CONNECTION

PIPE MATERIAL SCHEDULE

- SANITARY SEWER, GREASE WASTE, VENT, AND STORM DRAIN BELOW GRADE:
 - PIPE: ABS SOLID WALL SCHEDULE 40 ATSM D 2661
 - FITTINGS: ABS SOCKET FITTINGS, ATSM D, 2661 MADE TO ATSM D 3311
 - ABS SOLVENT CEMENT
- SANITARY SEWER, GREASE WASTE, VENT, AND STORM DRAIN ABOVE GRADE:
 - PIPE: SERVICE WEIGHT CAST IRON PER ATSM A-74, ASTM A-88, CISPI 301.
 - FITTINGS: NO HUB CAST IRON PER ATSM A-888
 - JOINTS: BAND TYPE STAINLESS STEEL COUPLINGS CONFORMING TO ASTM C-1540 HAVING MINIMUM SHIELD THICKNESS OF 31 GAUGE WITH NEOPRENE SEALING SLEEVE CONFORMING TO ASTM C-564
- DOMESTIC WATER BELOW GRADE:
 - PIPE: TYPE K SOFT COOPER TUBE, ANNEALED TEMPER, ASTM B88
 - FITTINGS: WROUGHT COPPER, ANSI B16.22
 - JOINTS: BRAZED JOINT
- DOMESTIC WATER ABOVE GRADE:
 - PIPE: TYPE L HARD DRAWN COPPER, ASTM B88
 - FITTINGS: WROUGHT COPPER, ANSI B16.22
 - JOINTS: 95%-5% TIN-ANTIMONY LEAD FREE SOLDER
- NATURAL GAS ABOVE GRADE:
 - PIPE: SCHEDULE 40 BLACK STEEL, ASTM A53
 - FITTINGS: 150LB MALLEABLE IRON THREADED, ANSI B16.3. FLANGED, ANSI B16.9, STEEL
 - JOINTS: 2" AND SMALLER, THREADED

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	ROUGH-IN SIZE				REMARKS
		S/W	V	CW	HW	
L-1	LAVATORY (WALL MOUNT)	1-1/2"	1-1/2"	1/2"	1/2"	WALL-MOUNT LAVATORY AMERICAN STANDARD "LUCERNE" MODEL #0356 421 WHITE. POWERS MODEL #115A5 "TEMP-TAP" THERMOSTATIC FAUCET (FAUCET COMES PRE-SET TO 105°F - THE P.C. MUST ADJUST THE TEMPERATURE LIMIT STOP TO 110°F) STOPS AND CHECKS, INSTALL WITH BRASSCRAFT 1/2" BRAIDED FLEX SUPPLIES, 1/4 TURN ANGLE STOPS AND CHROME PLATED ONE PIECE ESCUTCHEONS. GRID STRAINER WITH CHROME PLATED P-TRAP, CHROME PLATED TRAP-ARM, AND CHROME PLATED ESCUTCHEON. P-TRAP AND WATER SUPPLIES SHALL BE WRAPPED WITH TRUEBRO LAVGUARD #102.
WC-1	WATER CLOSET (FLUSH VALVE)	3"	2"	1-1/4"	-	FLOOR MOUNTED FLUSH VALVE AMERICAN STANDARD "MADERA" MODEL # 2858.128, WHITE VIRTUEOUS CHINA, 1.28 GPF SIPHON JET BOWL, 1-1/2" TOP SPUD CONNECTION, BOLT CAPS. INCLUDE ZURN Z60000AV-HET EXPOSED CLOSET FLUSH VALVE, BEMIS #1055 WHITE ELONGATED OPEN FRONT SEATLESS COVER WITH CHECK HINGE STOPS, SECURELY FASTEN SEAT AT INSTALLATION
TP-1	TRAP PRIMER	-	-	1/2"	-	LEAD-FREE, SANI GUARD AUTOMATIC TRAP PRIMER, ALL BRONZE BODY W/ INTEGRAL VACUUM BREAKER. MN: ZURN Z1022-XL
WCO	WALL CLEANOUT	LINE SIZED	-	-	-	ZURN #1443 SQUARE WALL CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT TAPERED THREAD PLUG AND NICKLE BRONZE SECURED SQUARE, SMOOTH WALL ACCESS COVER AND FRAME
FD-1	FLOOR DRAIN	2"	2"	-	-	ZURN #415 TYPE 'S' STRAINER, 5" SQUARE NICKEL BRONZE GRATE, CAST IRON BODY, CONVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR (TRAP PRIMER CONNECTION IF SHOWN ON THE PLAN).
MS-1	MOP SINK	2"	2"	-	-	FIAT MSB 24x24 PROVIDE FIAT 830-AA CHROME PLATED SERVICE FAUCET W/ VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE, PAIL HOOK AND HOSE THREAD ON SPOUT, 832-AA HOSE AND BRACKET, AND 889-CC MOP HANGER

HOT WATER PIPE INSULATION

PIPE DIAMETER	INSULATION THICKNESS
1/2"	1"
3/4"	1"
1"	1-1/2"
1-1/4" THRU 2"	1-1/2"

GAS LOAD CALCULATIONS

MARK	FIXTURE	QTY	MBH	TOTAL MBH
GW-H-1	GAS WATER HEATER	2	130	260
TOTAL INPUT =				260MBH
FROM TABLE 1215.2(1) OF THE CPC TO KEEP THE PRESSURE DROP OF 0.5" PER 100 FEET OF PIPE, 260 MBH WILL NEED A 1-1/4" GAS LINE. A 1-1/4" GAS LINE WILL BE USED.				

PLUMBING NOTES:

- PLUMBING PLANS WILL COMPLYU WITH 2019 CALIFORNIA PLUMBING CODE, 2019 CALIFORNIA GREEN CODE AND 2019 CALIFORNIA ENERGY CODE.
- EXCAVATIONS REQUIRED TO BE MADE INSIDE THE BUILDING FOR THE DRAINAGE OR SEWER SYTEM NEED TO BE OPEN TRENCH WORK AND THYE SHALL BE KEPT OPEN UNTIL THE PIPING HAS BEEN INSPECTED, TESTED, AND ACCEPTED BY THE CITY (CPC 414.3)
- SET THE THERMOSTATIC MIXING VALVE OF THE LAVATORIES (2/P2.0) TO A MAXIMUM TEMPERATURE OF 110 DEGREES F PER ENERGY STNADARDS 110(c).
- PER CPC 906.1 ABS/PVC VENT TERMINATIONS UP THROUGH THE ROOF EXPOSED TO SUNLIGHT ARE REQUIRED TO BE PROTECTED BY WATER BASED SYNTHETIC LATEX PAINTS. 906.1.
- VERIFY THERE IS A WALL CLEANOUT PER VENT RISER (TOTAL OF 3). IF NONE IS AVAILABLE, ADD ONE AT THE UPPER MOST TERMINAL (SEE 1/P2.0)



PROJECT NAME:

BEHAVIORAL
HEALTH CLINIC
REMODEL

COMMERCIAL

PROJECT ADDRESS:

120 N. 8TH STREET,
EL CENTRO,
CA 92243

PROJECT #: 481-1

REVISION SCHEDULE

△	ISSUE	DATE
△	INITIAL SUBMITTAL	-
△	1st SUBMITTAL	11-7-2022

HEALTH CLINIC

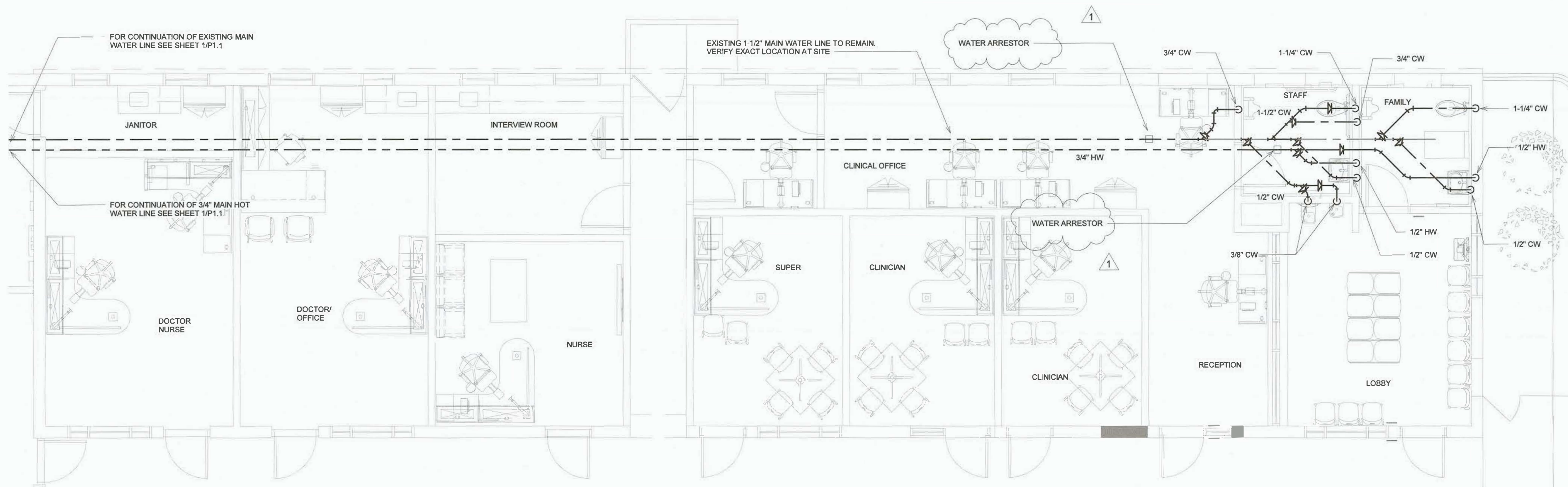
P0.2

PLUMBING SCHEDULES

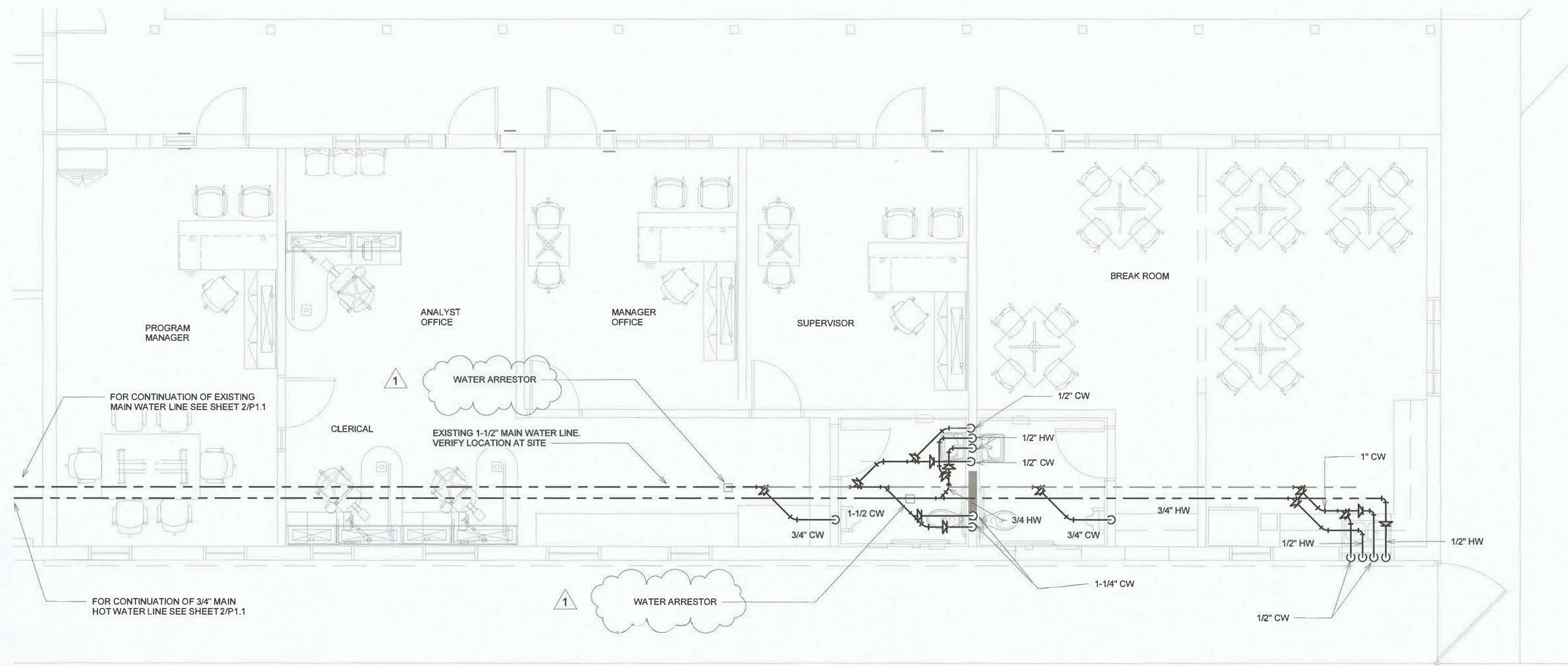
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ALL PROPRIETARY PRODUCTS/
SPECIFICATIONS SHALL INCLUDE THE
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● CW AND HW PLUMBING PLAN I
1/4" = 1'-0"



② CW AND HW PLUMBING PLAN IV
1/4" = 1'-0"

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1st SUBMITTAL	11-7-2022	

HEALTH CLINIC

P1.0

PLUMBING FLOOR PLANS

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INITIAL SUBMITTAL	-
1st SUBMITTAL	11-7-2022

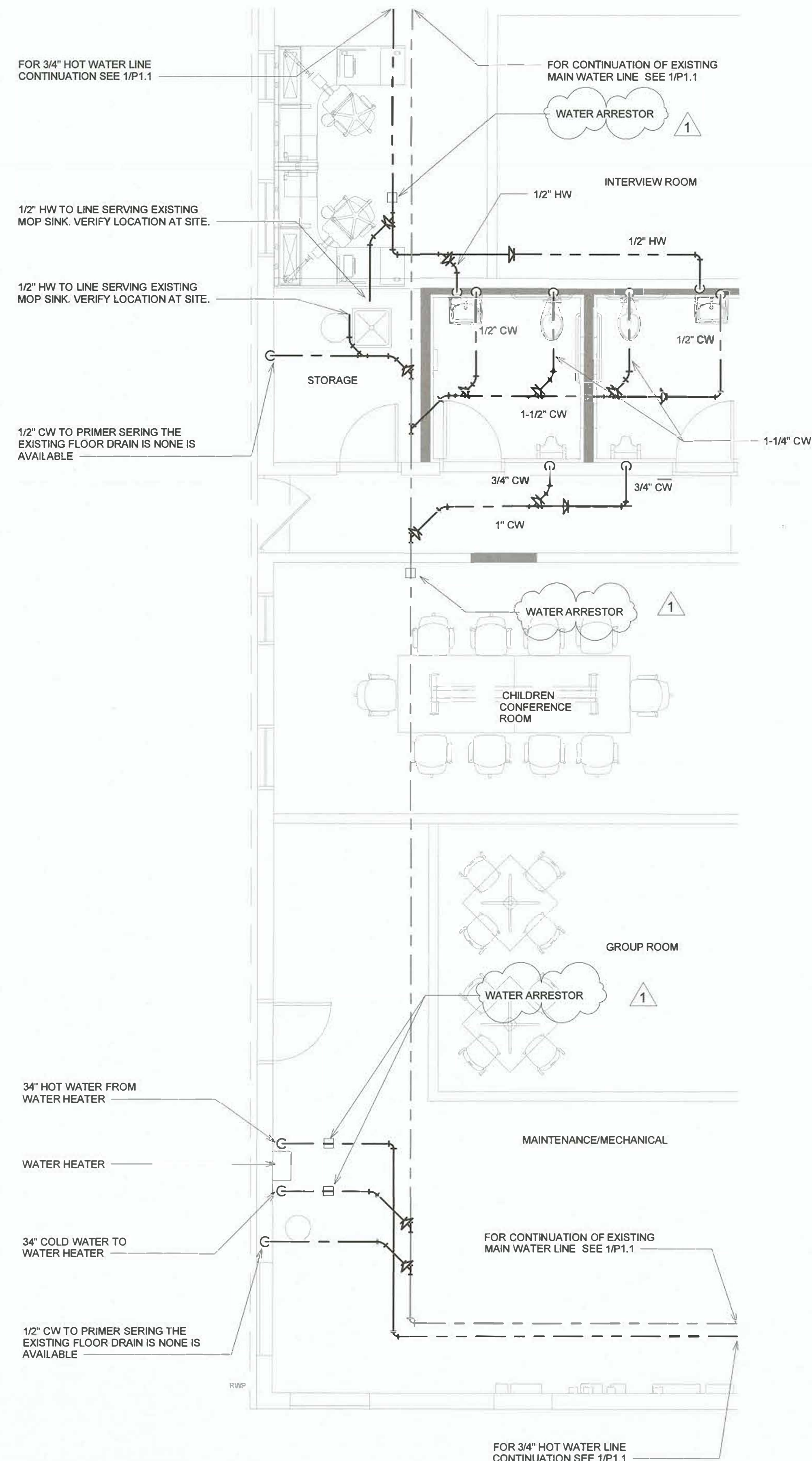
HEALTH CLINIC

P1.1

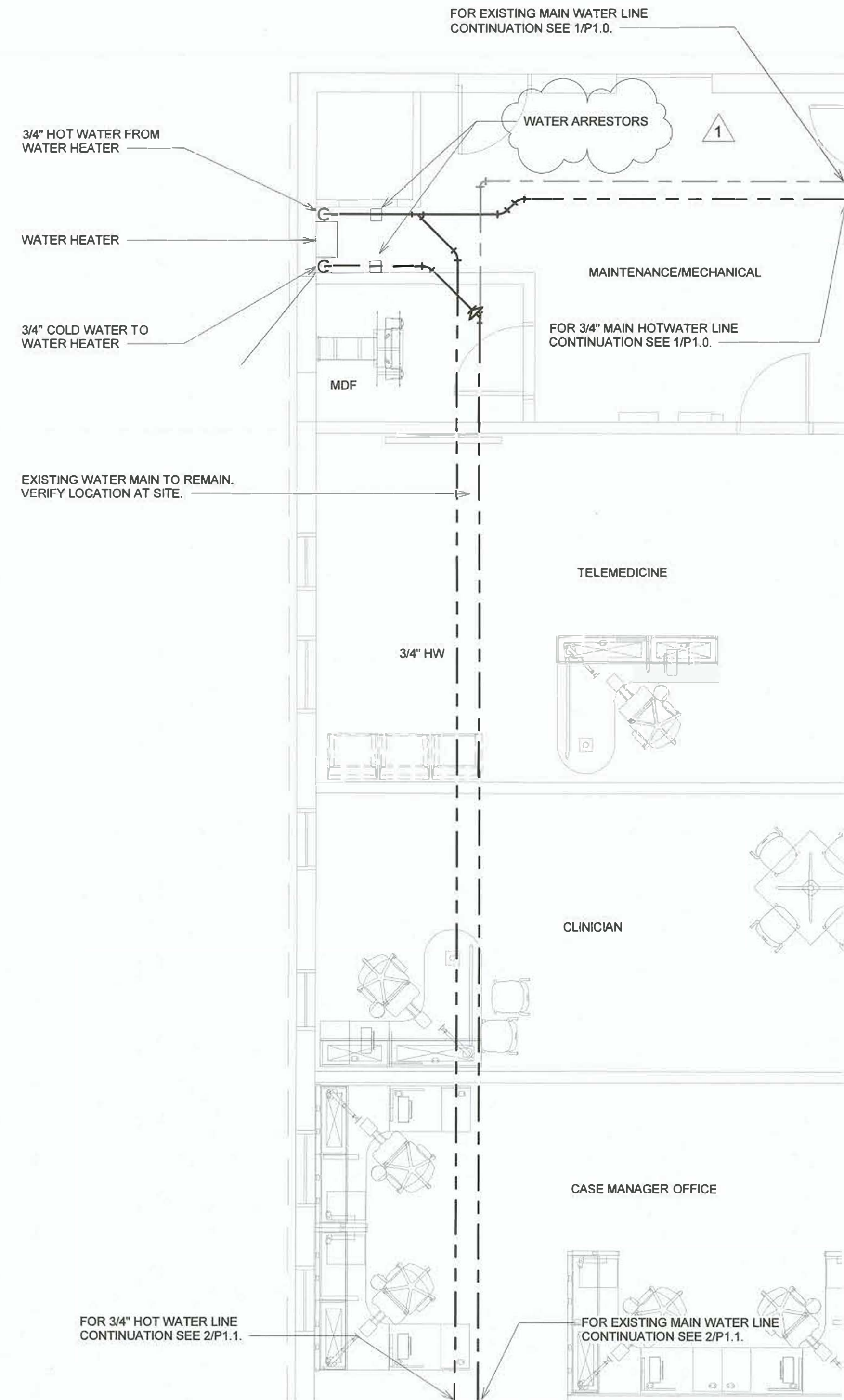
PLUMBING FLOOR PLANS

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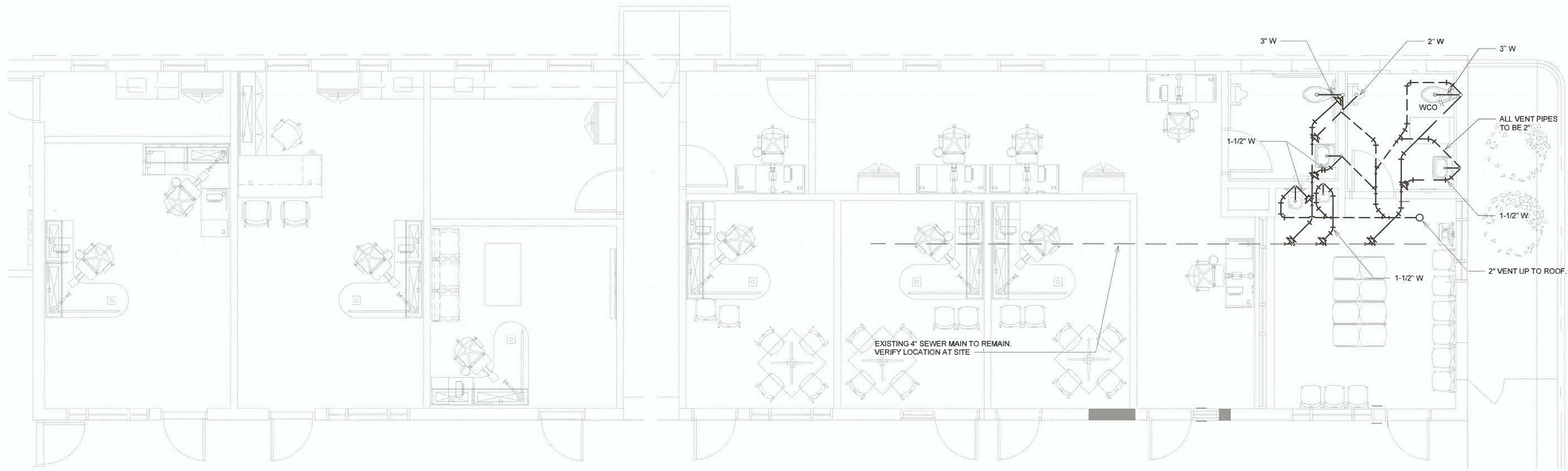


② CW AND HW PLUMBING PLAN III
1/4" = 1'-0"

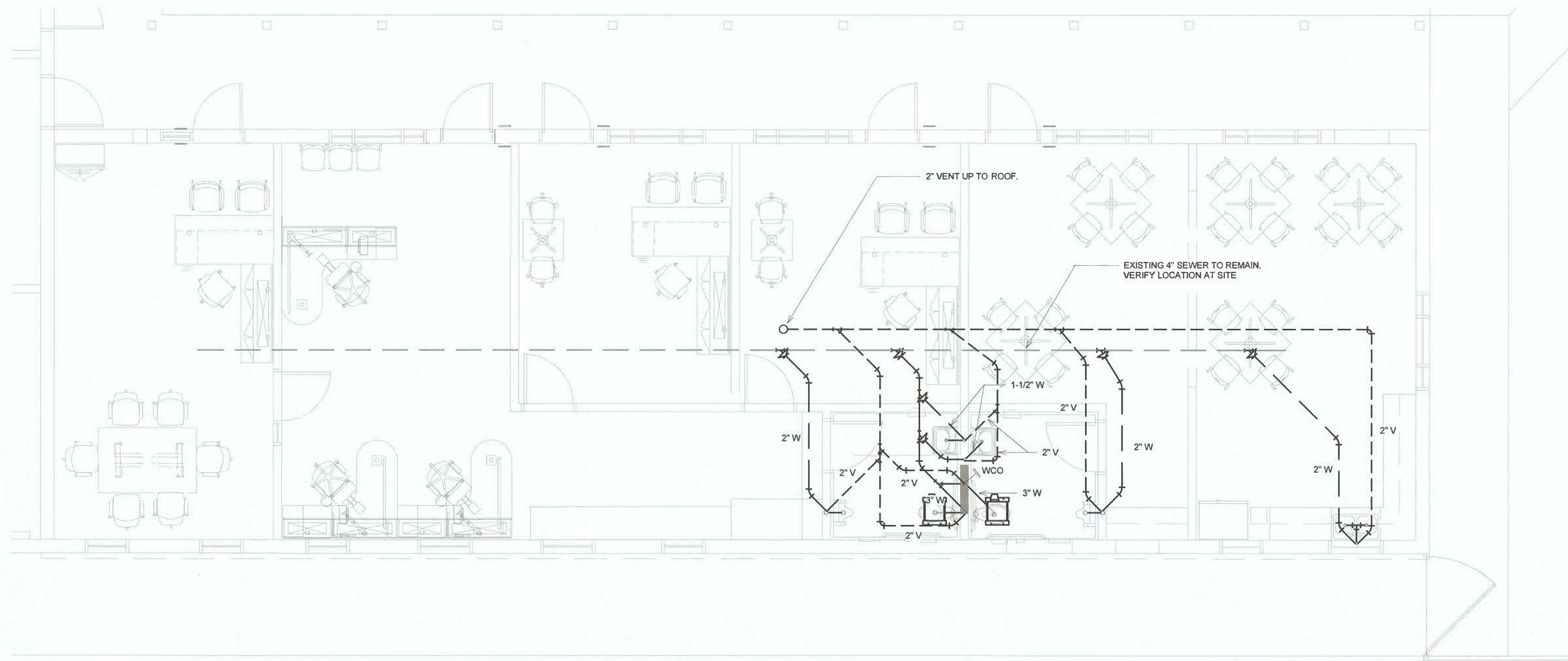


① CW AND HW PLUMBING PLAN II
1/4" = 1'-0"

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① SEWER, VENT & GAS PLUMBING PLAN I
1/4" = 1'-0"



SEWER, VENT & GAS PLUMBING PLAN
IV
1/4" = 1'-0"

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HEALTH CLINIC

P1.2

PLUMBING FLOOR PLANS

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BEHAVIORAL HEALTH CLINIC REMODEL

COMMERCIAL

PROJECT ADDRESS:

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CA 92243

PROJECT #: 481-1

[illegible]

HEALTH CLINIC

P1.3

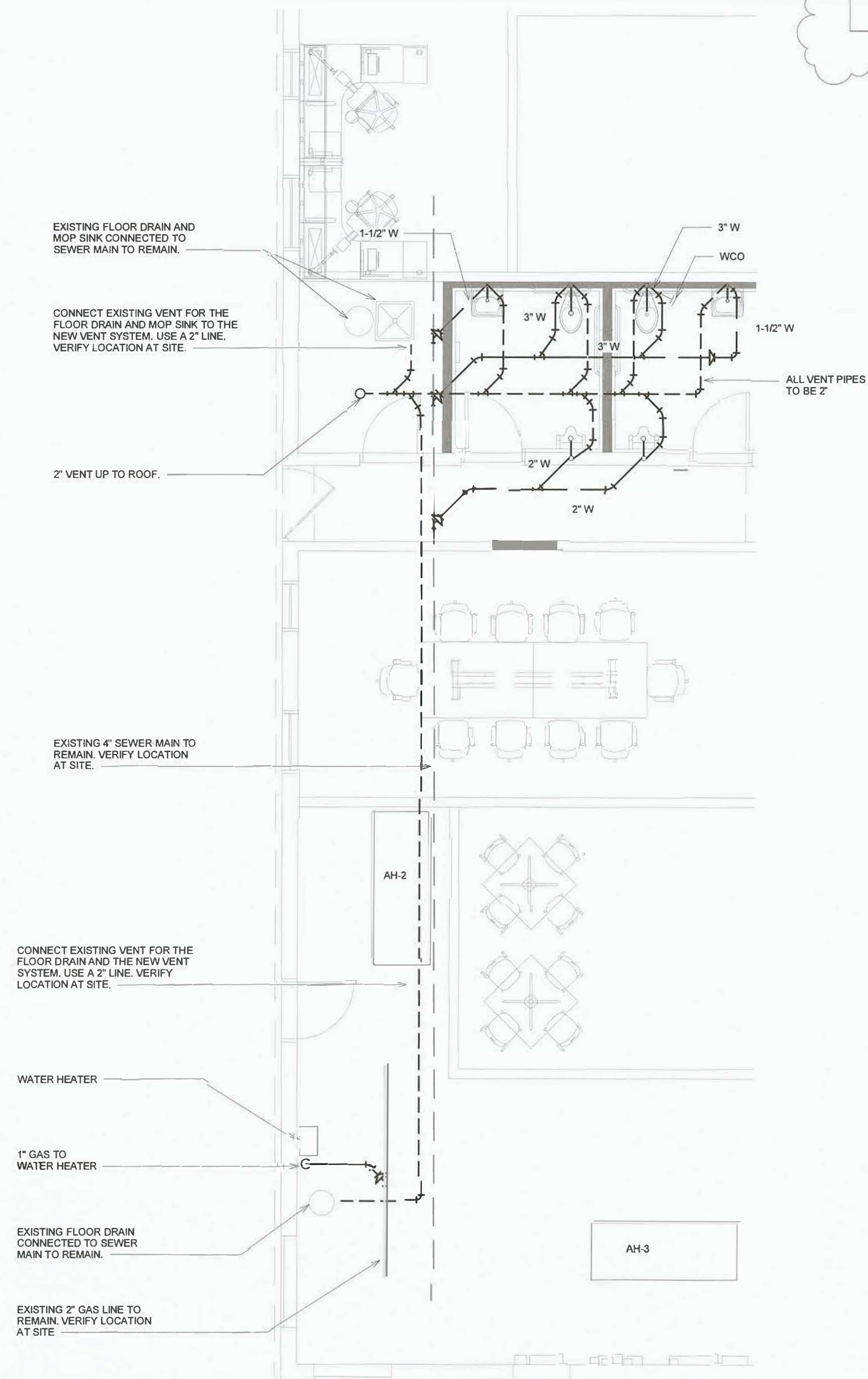
PLUMBING FLOOR PLANS

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PLUMBING NOTE:

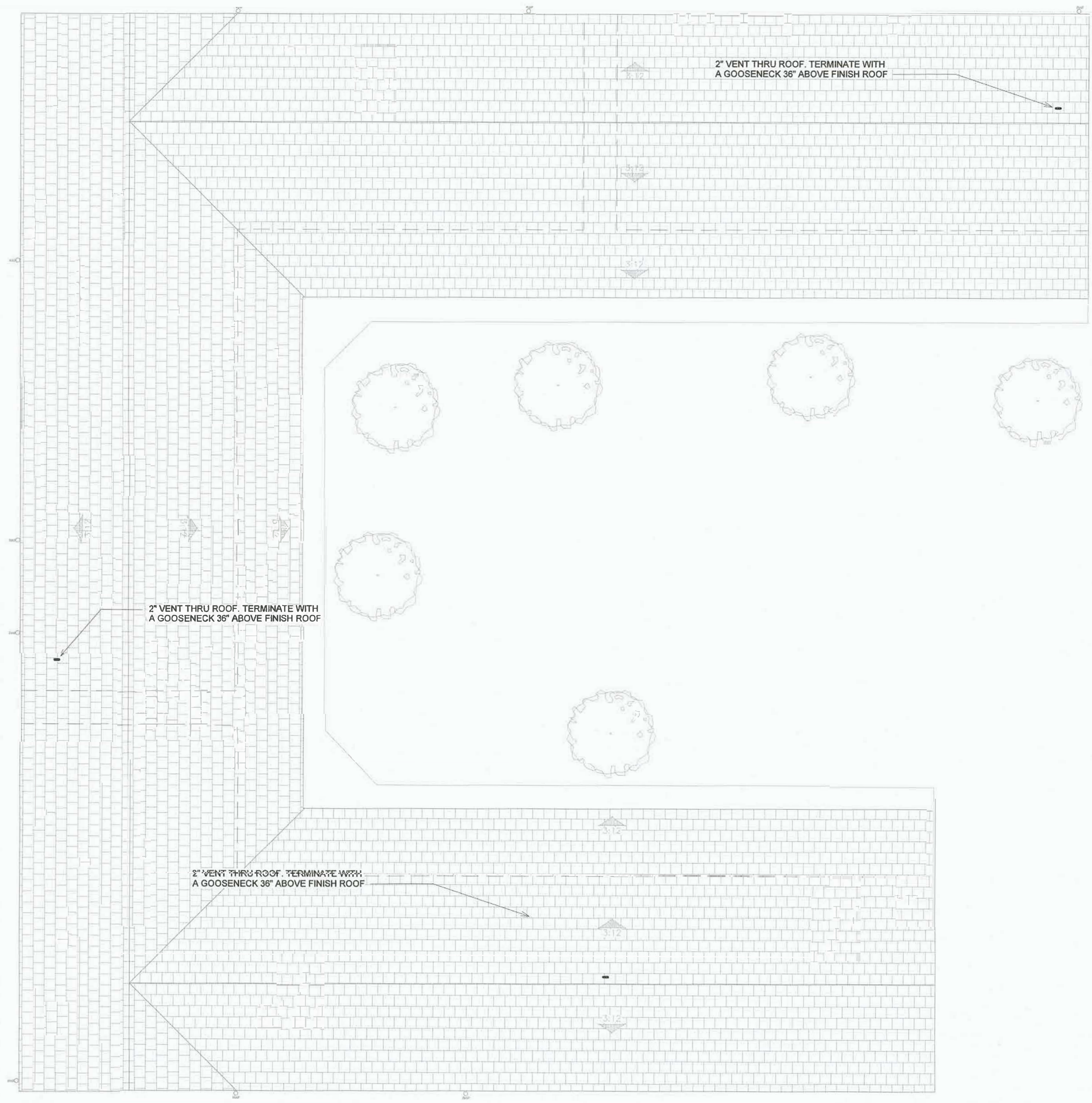
UE 1" CONDENSATE LINES (PVC SCHEDULE 40) FOR AIR HANDLING UNITS 1, 2 & (AHU-1, AHU-2 & AHU-3).
FOLLOW THE EXISTING CONDENSATE ROUTING AND TERMINATE OVER THE FLOOR DRAIN. SLOPE CONDENSATES 2% IN DIRECTION OF FLOOR DRAIN.
TERMINATE CONDENSATE OVERFLOW NEXT TO THE UNIT 6" ABOVE FINISH FLOOR.



② SEWER, VENT & GAS PLUMBING PLAN III
1/4" = 1'-0"

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① SEWER, VENT & GAS PLUMBING PLAN II
1/4" = 1'-0"



1 PLUMBING ROOF PLAN
1/8" = 1'-0"

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HEALTH CLINIC

P1.4

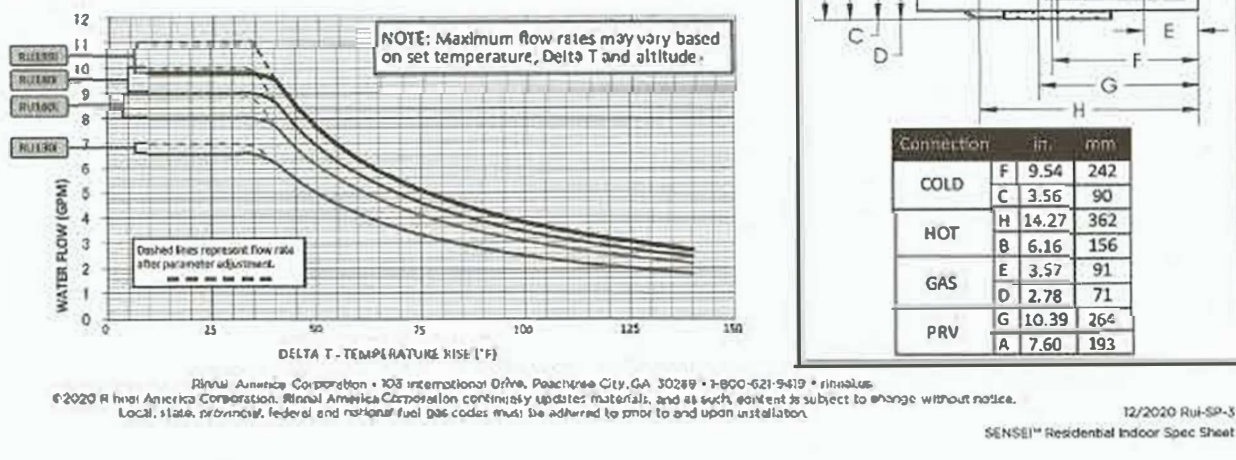
PLUMBING ROOF PLAN

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SENSEI™ TECHNICAL SPECIFICATIONS				
SPECIFICATION	RU130i	RU180i	RU160i	RU130i
Dimensions - w, h, d	18.5 in. x 26.4 in. x 11.1 in. (470 mm x 670 mm x 280 mm)			
Minimum Gas Consumption (Btu/h)	15,000			
Maximum Gas Consumption (Btu/h)	199,000	180,000	160,000	130,000
Flow Rate (Min - Max)	0.26 - 9.8 GPM (1.0 - 37 l/min)	0.26 - 9.0 GPM (1.0 - 34 l/min)	0.26 - 8.0 GPM (1.0 - 30 l/min)	0.26 - 6.0 GPM (1.0 - 24 l/min)
Max Flow Rate with Parameter Adjustment	11 GPM (42 l/min)	10 GPM (38 l/min)	9 GPM (34 l/min)	7 GPM (26 l/min)
Weight	64 lb (29 kg)	64 lb (29 kg)	62 lb (28 kg)	62 lb (28 kg)
Sound Level	48 dB	47 dB	47 dB	47 dB
Standby	1.3 W			
Freeze Protection	218 W			
Max Current	4 Amps			
Fuse	10 Amps			
Temperature	Minimum: 98° F (37° C) Default Maximum: 127° F (53° C) Default 140° F (60° C) With Parameter Adjustment			
Bypass Flow Control	Electronic			
Gas Supply Pressure	Natural: 3.5 in. w.c. - 10.5 in. w.c. Propane: 8.0 in. w.c. - 23.5 in. w.c.			
Ignition System	Direct Electronic Ignition			
Electronic Connections	Appliances: AC 120 Volts, 60Hz Temperature Control: 12 Volts (Digital)			
Water Supply Pressure	Minimum: 50 PSI (Recommended 60-80 PSI for max performance) Maximum: 150 PSI			
Controller Cable	Non-Polarized Two Core Cable (Minimum 22 AWG)			
Service Connections	Gas Supply: 3/4 in. (19 mm) NPT Cold Water Inlet: 3/4 in. (19 mm) NPT Hot Water Outlet: 3/4 in. (19 mm) NPT Condensate Drain: 1/2 in. (13 mm) NPT			
Cleanliness	Top: 2 in. (51 mm)*** Bottom/Ground: 1/2 in. (13 mm)*** Front: 0 in.*** Sides: 2 in. (51 mm)*** Vent: 0 in.***			

*** Inlet from vent pipe must be at least 1/2 in. (13 mm) from front of water heater.
 ** Cleanliness for spacing is 2 1/2 in. (64 mm) from front of water heater.
 *** Add 0.5 in. (13 mm) for access hole.

Minimum flow may vary slightly depending on the temperature setting and the water temperature.
 Minimum gas supply pressure must not exceed the value specified by the manufacturer.
 The maximum gas supply pressure must not exceed the value specified by the manufacturer.



SENSEI™ DIMENSIONS		in. (mm)	
FRONT		18.5 (470)	26.4 (670)
SIDE		11.1 (280)	11.1 (280)
BOTTOM		11.1 (280)	11.1 (280)

Connection	in.	mm
COLD	3/4	19
HOT	3/4	19
GAS	3/4	19
PRV	3/4	19

Rinnai.

RU199i, RU180i, RU160i, RU130i
INTERNAL (INDOOR) CONDENSING TANKLESS WATER HEATER

RESIDENTIAL



FLEXIBLE VENTING OPTIONS

- Concentric or Schedule 40 PVC/CPVC
- Direct Vent (Concentric and Twin Pipe)
- Non-Direct Vent (Room Air)
- Common Vent (Direct Vent and Room Air)
- Maximum Equivalent Vent Lengths:

Twin Pipe			
Vent Sizes	2 in. (51 mm)	3 in. (76 mm)	
Vent Lengths	65 ft (20 m)	150 ft (46 m)	
Concentric			
Vent Sizes	2 in. X 4 in.	3 in. X 5 in.	
Vent Lengths	65 ft (20 m)	150 ft (46 m)	

EASE OF INSTALLATION AND SERVICEABILITY

- Compact Design to Save Space
- Wi-Fi Technology for Remote Monitoring and Management
- Sliding Mounting Bracket for Easy Installation
- Simple Gas Conversion

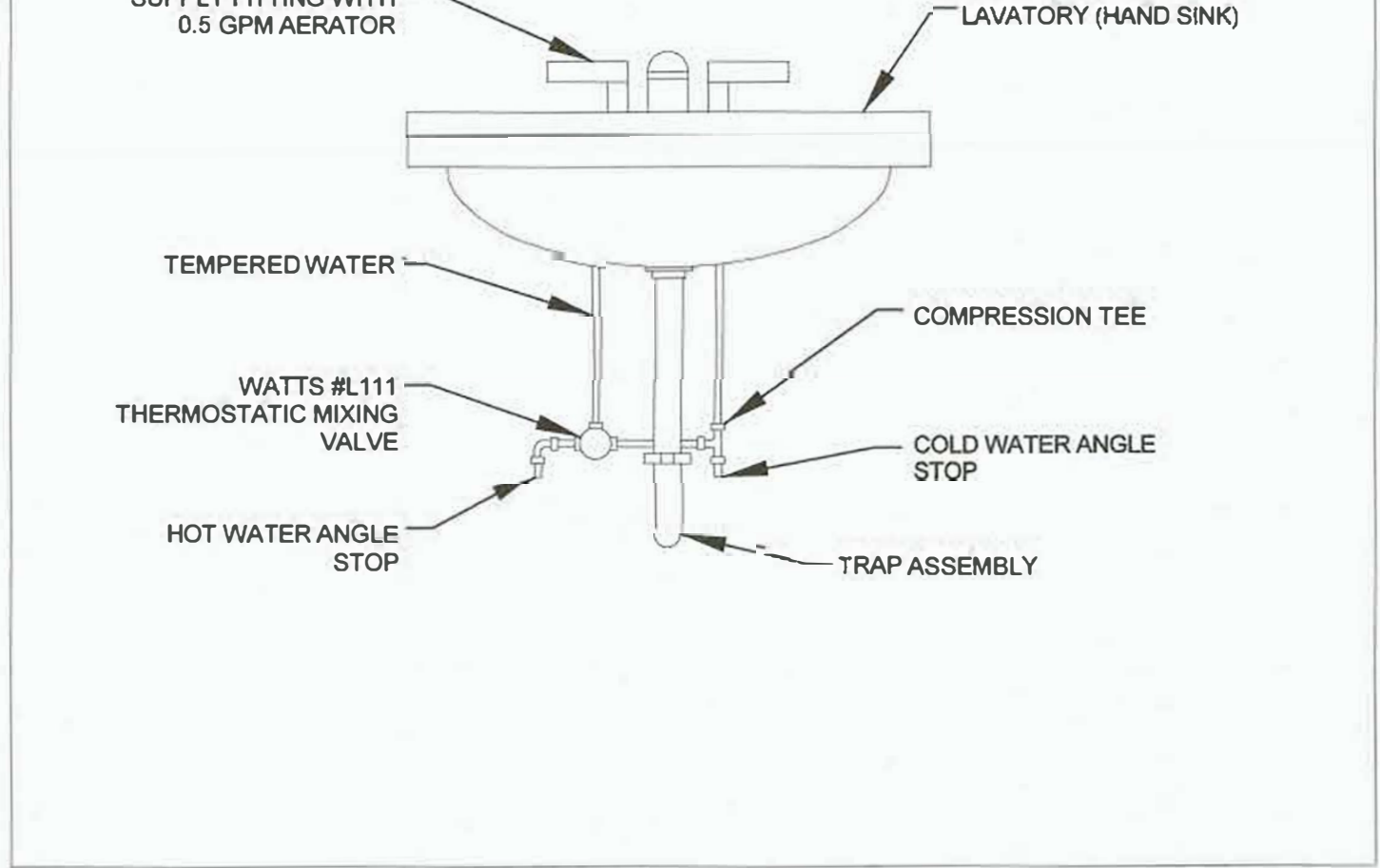
OPTIONAL ACCESSORIES

- Room Air Sensor, Condensate Neutralizer, Scale/Cutter, Drain Down Kit, Additive, Controller, Pipe Cover, Recirculation Pump, DF5/MIS Switch, EZConnect™ Cables, Antenna™ Wi-Fi Module, Wireless Accessories, and many more.
- Visit rinnai.us for a complete list of accessories.

RINNAI.US • 1-800-621-9419

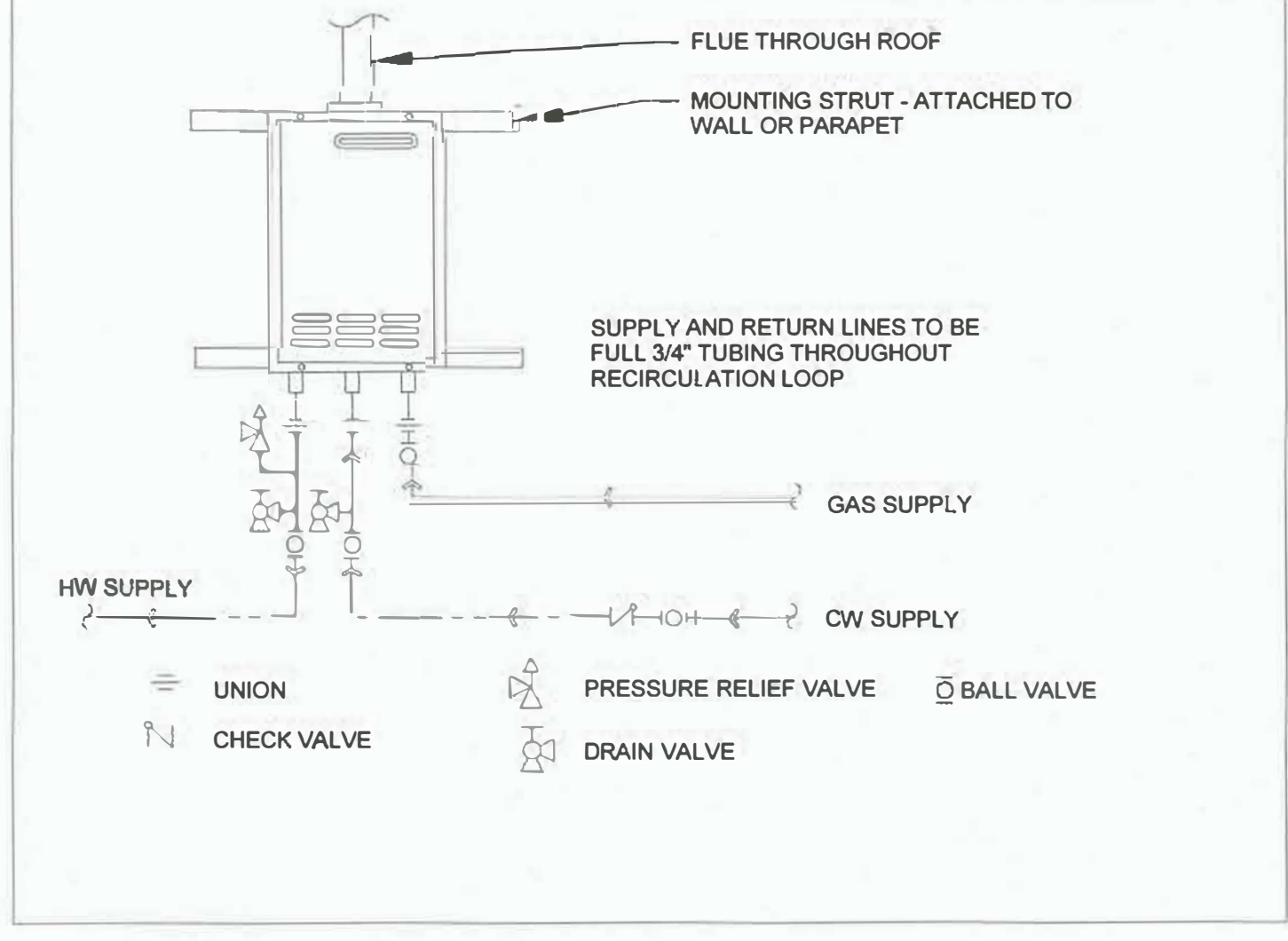
WATER HEATER - CUT SHEETS

NTS



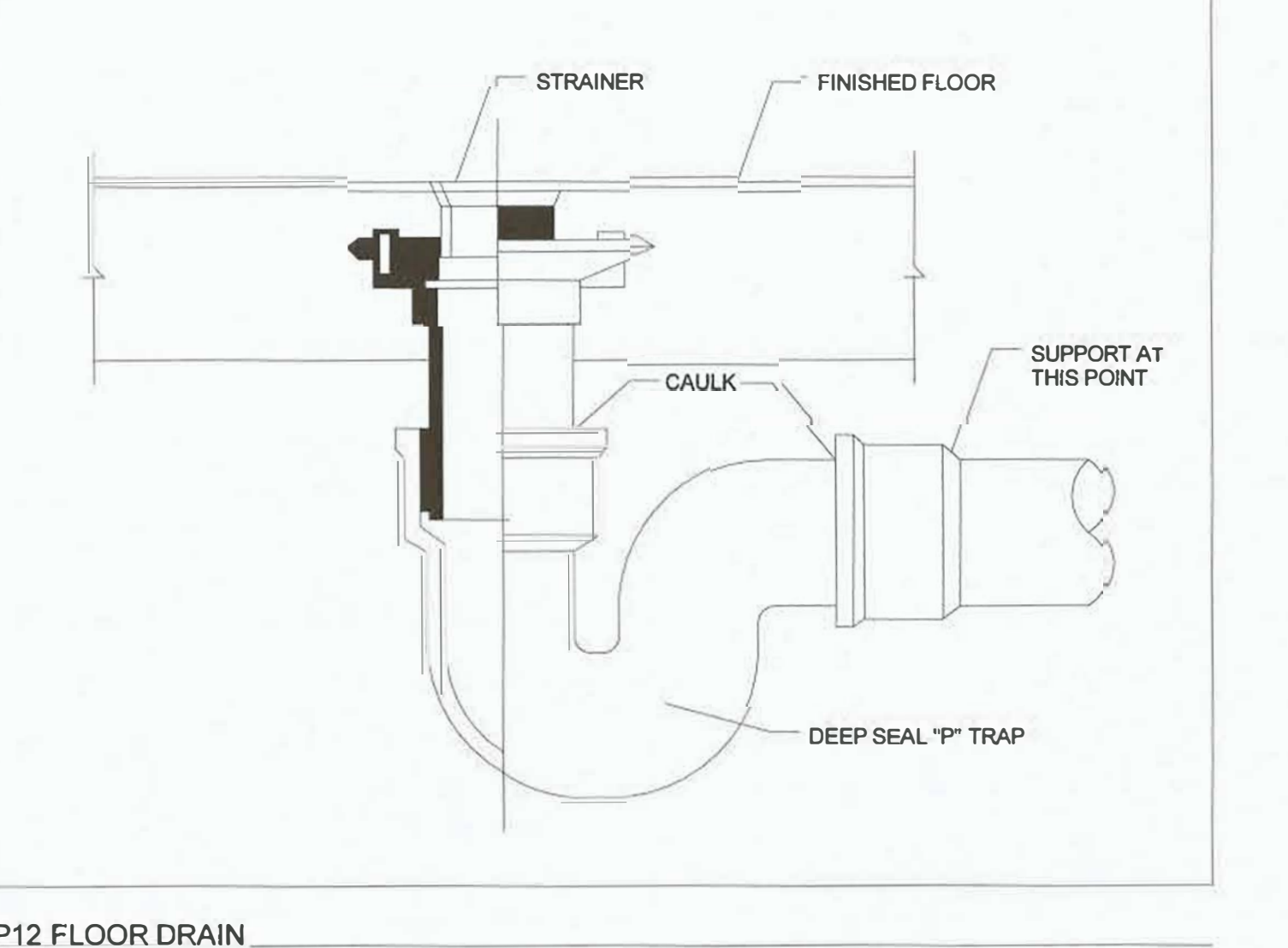
P7 LAVATORY INSTALLATION

NTS



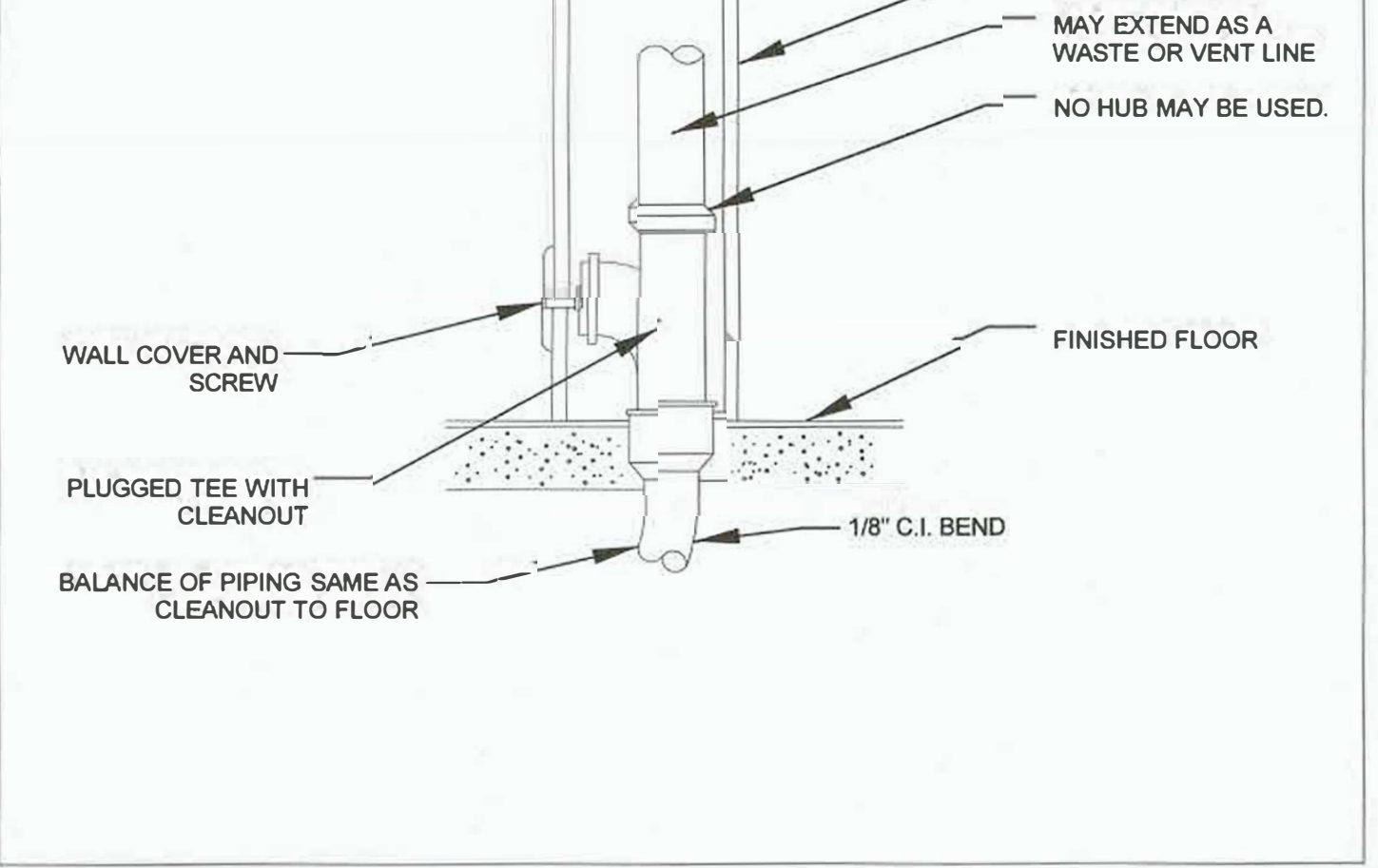
P9 GAS TANKLESS WATER HEATER

NTS



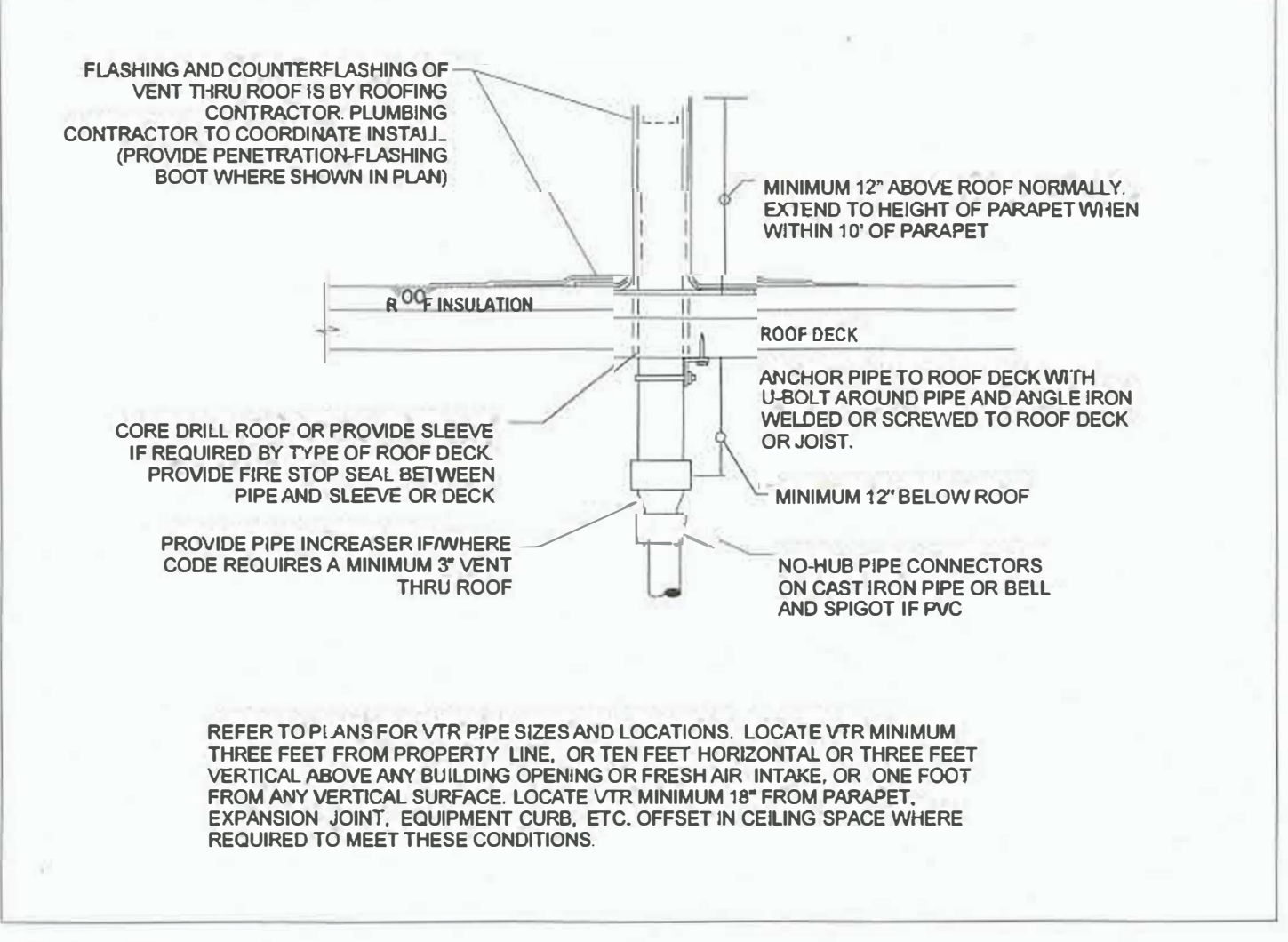
P12 FLOOR DRAIN

NTS



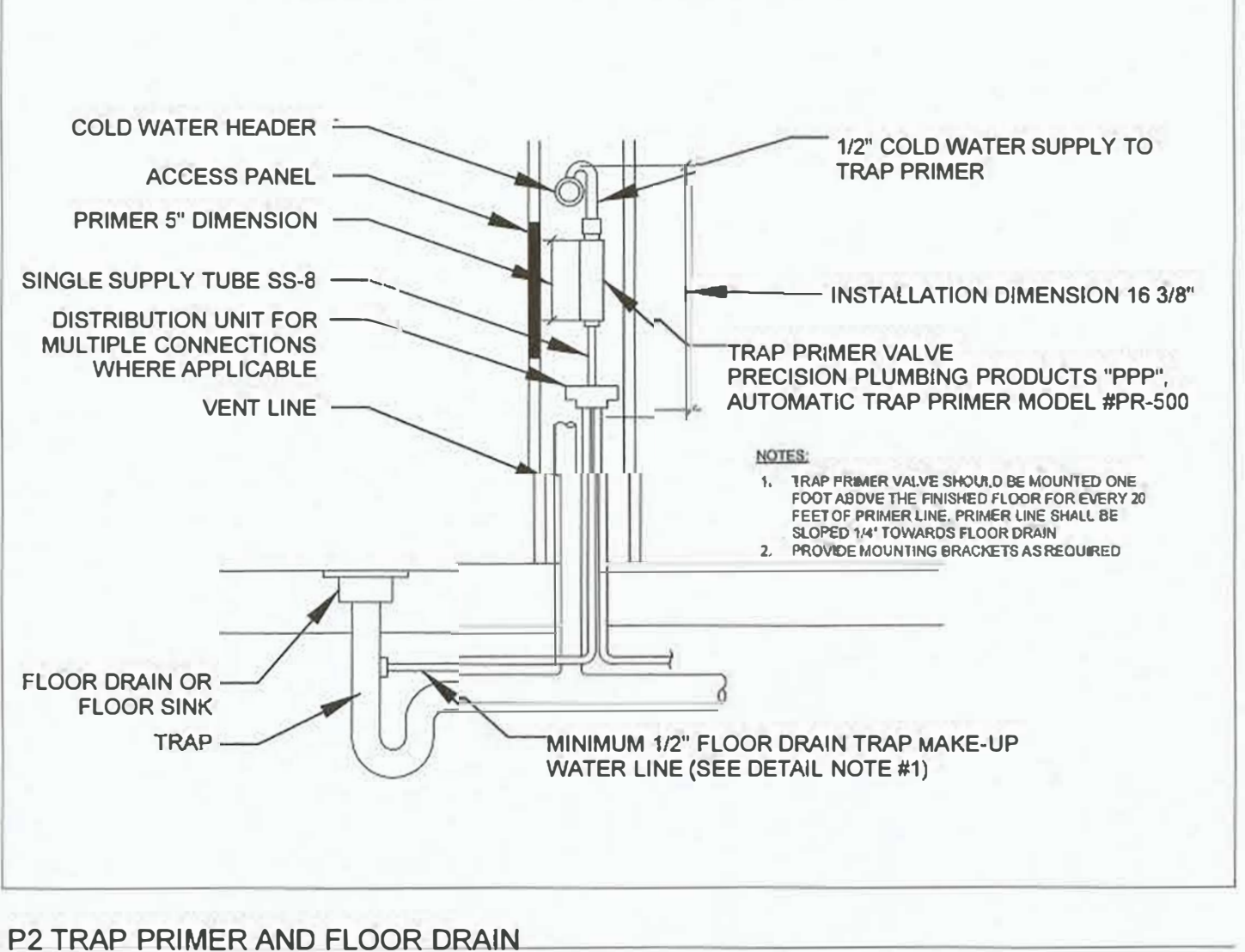
P4 WALL CLEANOUT

NTS



P3 VENT TO ROOF

NTS



P2 TRAP PRIMER AND FLOOR DRAIN

NTS

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PROJECT NAME:

BEHAVIORAL HEALTH CLINIC REMODEL

COMMERCIAL

PROJECT ADDRESS:

120 N. 8TH STREET,
EL CENTRO,
CA 92243

PROJECT #: 481-1

REVISION SCHEDULE		
REVISION	ISSUE	DATE
1	INITIAL SUBMITTAL	
2	1st SUBMITTAL	11-7-2022

HEALTH CLINIC

P2.0

PLUMBING DETAILS

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