

CITY OF MONTEBLLO

SENIOR CENTER REMODEL

115 S TAYLOR AVE, MONTEBELLO,CA 90640

CERTIFICATE

I HEREBY DECLARE THAT IN MY PROFESSIONAL OPINION, THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH THE CURRENT PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES, AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ACCEPT FULL RESPONSIBILITY FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECKS OF THESE PLANS COMPLY WITH CITY STANDARDS AND OTHER APPLICABLE CODES AND ORDINANCES. THE PLAN REVIEW PROCESS IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT THEREFORE RELIEVE ME OF MY DESIGN RESPONSIBILITY. AS THE ENGINEER OF RECORD, I AGREE TO DEFEND AND INDEMNIFY THE CITY OF MONTEBELLO, ITS OFFICERS, ITS AGENTS, AND ITS EMPLOYEES FROM ALL LIABILITY, CLAIMS, DAMAGES, OR INJURIES TO ANY PERSON OR PROPERTY ARISING FROM NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF RECORD, HIS EMPLOYEES, HIS AGENTS OR HIS CONSULTANT.

Raymond Reza Abassi
NO. 478091
Date : 07.31.2026



PROJECT TEAM

INFRASTRUCTURE ARCHITECTS

100 PROGRESS, SUITE 110
IRVINE, CA, 92618

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SENIOR DESIGNER

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PROJECT DATA

BUILDING DEPARTMENT: CITY OF MONTEBELLO

OCCUPANCY CLASSIFICATION: GROUP A-3

TYPE OF CONSTRUCTION: (E) V-B

SPRINKLERED: NON-SPRINKLERED

NUMBER OF STORIES: 2 STORY

OCCUPANCY LOAD: 190 OCCUPANCY

ZONING DISTRICT: PUBLIC AND INSTITUTIONAL

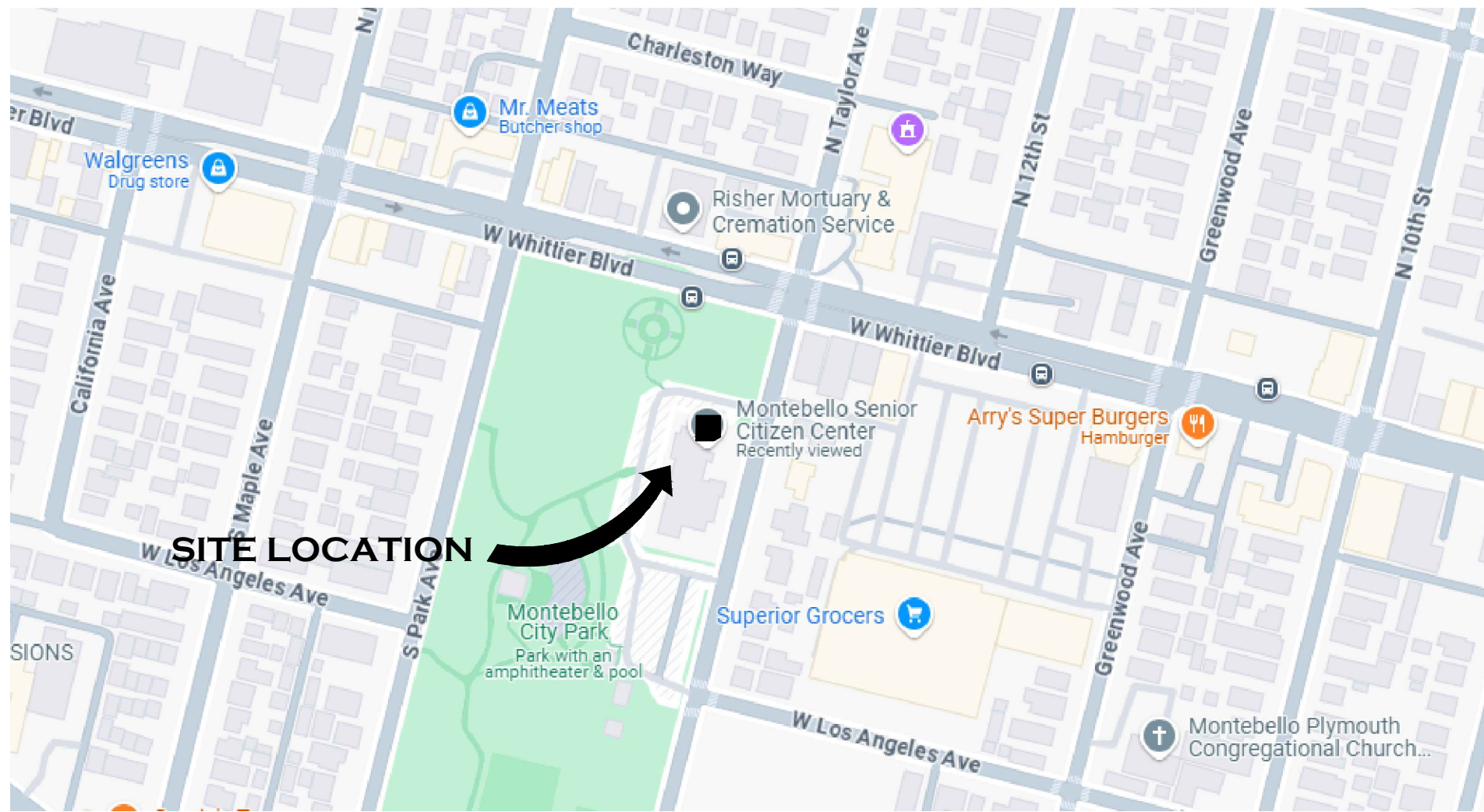
SCOPE OF WORK AREA: SENIOR CENTER ±5003 Sq Ft

Project Site Data:

APN: 6349-001-016 and 6337-005-002

BUILDING CODES:
2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA PLUMBING CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA GREEN BUILDING CODE
TITLE 24 (ADA) CALIFORNIA ADMINISTRATIVE CODE

PROJECT SITE



SCOPE OF WORK

± 5003 Sq Ft SENIOR CENTER RENOVATION WITHIN AN EXISTING BUILDING.

IARCH IS PROPOSING THE FOLLOWING

A. CONSTRUCTION DOCUMENTS SERVICE

- FINALIZE THE REMODEL DESIGN SENIOR CENTER AND RESTROOM INCLUDING ALL EQUIPMENTS SCHEDULES, FINISH SCHEDULES TO BE INSTALLED WITHIN THE IMPROVED AREA.
- PREPARE DETAILED CONSTRUCTION DOCUMENTS IN GMP'S STANDARD FORMAT AND LEVEL OF DETAIL, SUITABLE FOR OBTAINING A BUILDING PERMIT FROM THE LOCAL BUILDING DEPARTMENT AND/OR GOVERNING AUTHORITY.
- ADDRESS AND RESPOND TO PLAN CHECK CORRECTIONS FROM THE AUTHORITY HAVING JURISDICTIONS (A-H) RELATED TO GMP'S SCOPE OF WORK TO ASSIST IN OBTAINING PLAN CHECK APPROVAL.
- PROVIDE CONSTRUCTION DOCUMENTS IN PDF FORMAT. UPDATE AND PROVIDE SPECIFICATIONS, CONFIRM THE DOCUMENT FINAL SIZE AND SPACE REQUIREMENTS FOR ALL NEW EQUIPMENT.

B. CONSTRUCTION ADMINISTRATION SERVICES DURING BIDDING

- PROVIDE INTERPRETATIONS, CLARIFICATIONS, AND SUPPLEMENTAL DOCUMENTATION FOR THE CONSTRUCTION DOCUMENTS TO SUPPORT GMP'S DESIGN INTENT. RESPOND TO PRE-BID INQUIRIES FROM PROSPECTIVE BIDDERS REGARDING GMP'S CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
- REVIEW SHOP DRAWINGS, SUBMITTALS AND SAMPLES FURNISHED BY THE CONTRACTOR, ADHERING TO INDUSTRY-STANDARD PROTOCOL.
- RESPOND TO CONTRACTOR'S REQUESTS FOR INFORMATION (RFIs) TO ENSURE CLARITY AND ALIGNMENT WITH THE CONSTRUCTION DOCUMENTS.

BUILDING CODES

2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA PLUMBING CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA GREEN BUILDING CODE
TITLE 24 (ADA) CALIFORNIA ADMINISTRATIVE CODE

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- A2.0 ENLARGED RESTROOM PLAN – 1ST FLOOR
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- M5.1 MECHANICAL TITLE 24
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ELECTRICAL

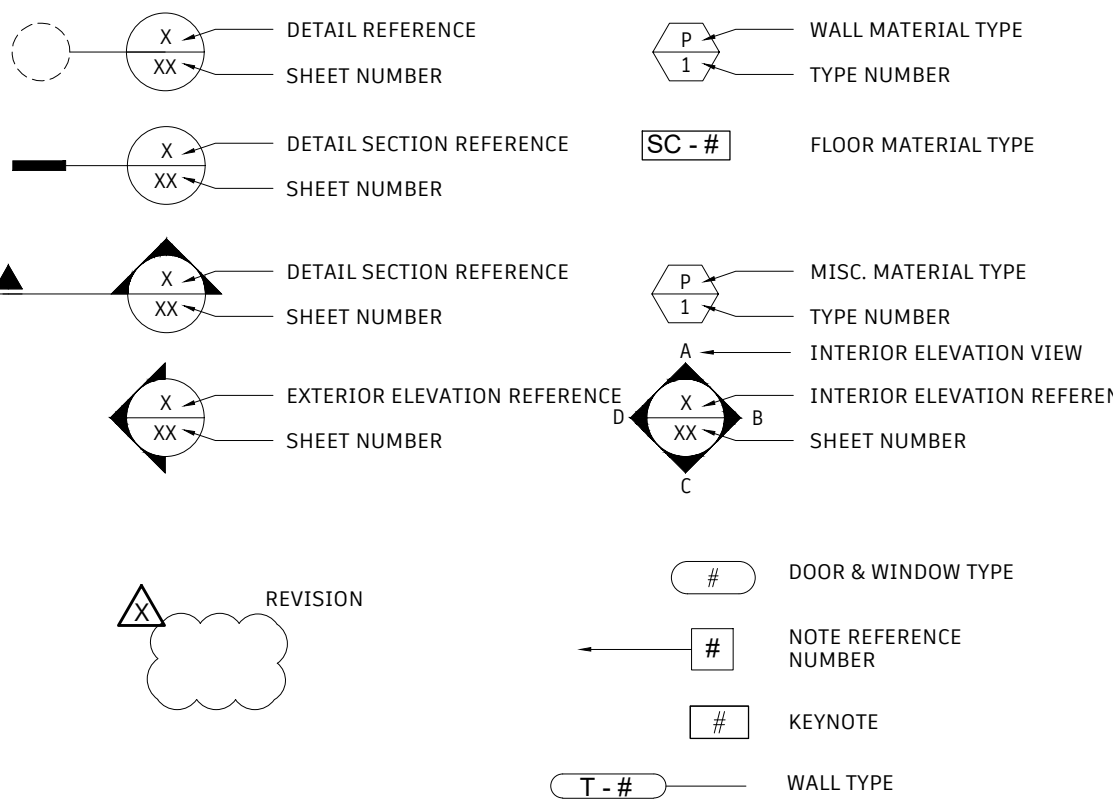
- E1.0 ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS
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- E3.0 ELECTRICAL DEMO PLAN
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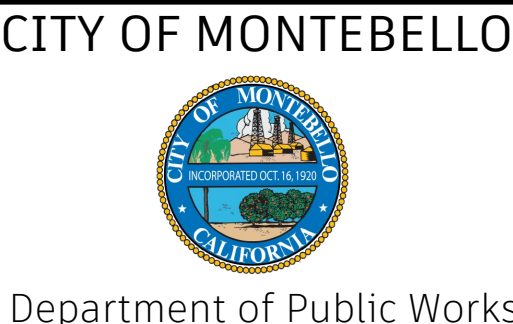
SYMBOLS & ABBREVIATION

And Angle	F.A. Fire Alarm	PRCT. Pre-cast
At Centerline	F.B. Flat Bar	PL. Plate
Diameter or Round	F.D. Floor Drain	PLAM. Plastic Laminate
Existing	FDN. Foundation	PLAS. Plaster
FL. Finish	F.E. Fire Extinguisher	PLYWD. Plywood
FLASH. Flashing	F.E.C. Fire Extinguisher Cab	PR. Pair
FLUOR. Fluorescent	F.H.C. Fire Hose Cabinet	PT. Point
F.O.C. Face of Concrete	FL. Finish	P.T.D. Paper Towel Dispenser
F.O.F. Face of Finish	FLUOR. Fluorescent	P.T.D/R. Partition
F.O.M. Face of Mullion	F.O.C. Face of Concrete	P.T.R. Paper Towel Receptacle
F.O.S. Face of Sheathing	F.O.F. Face of Finish	P.J. Panel Joint
Fireproof	F.O.M. Face of Mullion	Q.T. Quarry Tile
Full Size	F.P. Foot or Feet	R. Riser
Foot or Feet	FT. Footing	RAD. Radius
Furring	FTG. Furring	R.O. Roof Drain
Future	FURR. Furring	REF. Reference
G.A. Gauge	FUT. Future	REFR. Refrigerator
GALV. Galvanized	GA. Gauge	REG. Register
G.B. Grab Bar	GALV. Galvanized	REIN. Reinforced
GL. Glass	G.B. Grab Bar	RESIL. Resilient
GR. Grade	GL. Glass	RM. Room
GYP. Gypsum	GR. Grade	RWD. Rough Opening
H.B. Hose Bibb	GYP. Gypsum	R.W.L. Rain Water Leader
H.C. Hollow Core	H.B. Hose Bibb	S. Self Adhered Flashing
HDWD. Hardware	H.C. Hollow Core	S.C. Solid Core
H.M. Hollow Metal	HDWD. Hardware	S.C.D. Seat Cover Dispenser
HORIZ. Horizontal	H.M. Hollow Metal	SCHED. Schedule
HR. Hour	HORIZ. Horizontal	SECT. Section
HGT. Height	HR. Hour	SH. Shelf
I.D. Inside Diameter (Dim.)	HGT. Height	SHR. Shower
INSUL. Insulation	I.D. Inside Diameter (Dim.)	SHT. Sheet
INT. Interior	INSUL. Insulation	SIM. Similar
Jan. Joint	INT. Interior	S.N.D. Sanitary Napkin Disp.
Janitor Joint	Jan. Joint	S.N.R. Sanitary Napkin Recept.
KITCHEN Knock Out	Janitor Joint	SPEC. Specification
K.O. Knock Out	KITCHEN Knock Out	SQ. Square
LAM. Laminate	K.O. Knock Out	S.S. Stainless Steel
LAV. Lavatory	LAM. Laminate	STA. Station
LKR. Locker	LAV. Lavatory	STD. Standard
LT. Light	LKR. Locker	STL. Steel
MAX. Maximum	LT. Light	STOR. Storage
M.C. Medicine	MAX. Maximum	STRL. Structural
MECH. Mechanical	M.C. Medicine	SUSP. Suspended
MEMB. Membrane	MECH. Mechanical	SYS. Symmetrical
MET. Metal	MEMB. Membrane	T.D. Tread
MFR. Manufacturer	MET. Metal	T.B. Towel Bar
M.H. Manhole	MFR. Manufacturer	T.C. Top of Curb
MIN. Minimum	M.H. Manhole	T.O. Top of Wall
MIR. Mirror	MIN. Minimum	T.O.C. Top of Concrete
MISC. Miscellaneous	MIR. Mirror	T.O.P. Top of Panel
M.O. Masonry Opening	MISC. Miscellaneous	T.O.R. Top of Recess
MTD. Mounted	M.O. Masonry Opening	T.O.M. Top of Mullion
MULL. Mullion	MTD. Mounted	T.P. Top of Wall
N. North	MULL. Mullion	T.P.D. Top of Pavement
N.I.C. Not In Contract	N. North	T.V. Toilet Paper Dispenser
NO. Number	N.I.C. Not In Contract	T.W. Towel
NOM. Nominal	NO. Number	UNF. Unless Otherwise Noted
N.T.S. Not To Scale	NOM. Nominal	UR. Urinal
O.A. Overall	N.T.S. Not To Scale	VERT. Vertical
OBS. Obscure	O.A. Overall	VEST. Vestibule
O.C. On Center	OBS. Obscure	W. West
O.D. Outside Diameter (Dim.)	O.C. On Center	W. With
OFF. Office	O.D. Outside Diameter (Dim.)	W.C. Water Closet
OPNG. Opening	OFF. Office	WO. Wood
OPP. Opposite	OPNG. Opening	WPM. Waterproofing Membrane
	OPP. Opposite	WRB. Weather/Water
		WV. Weather Barrier
		WV. Weather Barrier
		WT. Weight



ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153.

REVISIONS			
NO.	DATE	BY	APPROV.



SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
COVER SHEET

Sheet Number:

A0.0

SANITARY FACILITIES:

1. ACCESSIBLE SIGN CONTAINING TACTILE CHARACTER IS PROVIDED AT DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR ON LATCH SIDE AND AT DOUBLE DOORS, THE SIGN SHALL BE RIGHT OF THE RIGHT HANDED DOOR. THE SIGN CONTAINING TACTILE CHARACTERS SHALL HAVE 18" MINIMUM BY 18" MINIMUM SPACE ON THE FLOOR CENTERED ON SIGN. THE SIGN TACTILE CHARACTER SHALL BE 48" MINIMUM AND 60" MAXIMUM ABOVE FLOOR.
2. CLEARANCE AROUND THE WATER CLOSET SHALL BE 60" MINIMUM MEASURED PERPENDICULAR FROM THE SIDEWALL, 56" MINIMUM MEASURED PERPENDICULAR FROM REAR WALL. FOR WALL MOUNTED FIXTURE AND 59" FOR FLOOR MOUNTED FIXTURES. NO OTHER FIXTURES OR OBSTRUCTION SHALL BE WITHIN WATER CLOSET CLEARANCE.
3. WATER CLOSET COMPARTMENTS SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC CLOSING DEVICE, AND SHALL HAVE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32-INCHES WHEN LOCATED AT THE END AND 34-INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
4. EXCEPT FOR DOOR OPENING WIDTH AND DOOR SWINGS; A CLEAR UNOBSTRUCTED ACCESS NOT LESS THAN 44-INCHES SHALL BE PROVIDED TO WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY THE DISABLED. THE SPACE IMMEDIATELY IN FRONT OF A WATER CLOSET COMPARTMENT SHALL BE NOT LESS THAN 48-INCHES AS MEASURED AT RIGHT ANGLES TO THE COMPARTMENT DOOR IN ITS CLOSED POSITION.
5. THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17-INCHES AND A MAXIMUM OF 19-INCHES MEASURED TO THE TOP OF TOILET SEAT.
6. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 44-INCHES ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS.
7. WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR SPACE 30-INCHES WIDE X 48-INCHES LONG IN FRONT OF THE URINAL.
8. WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17" MAXIMUM ABOVE THE FINISH FLOOR. URINALS SHALL BE 13-1/2" DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE.
9. A CLEAR FLOOR FORWARD APPROACH, AND KNEE AND TOE CLEARANCE SHALL BE PROVIDED. A SPACE 30-INCHES MINIMUM WIDE X 48-INCHES MINIMUM LONG SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR SPACE. SUCH CLEAR FLOOR SPACE SHALL BE PERMITTED TO INCLUDE: KNEE AND TOE CLEARANCE UNDERNEATH THE LAVATORY.
10. LAVATORIES SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34-INCHES MAXIMUM ABOVE THE FINISH FLOOR.
11. TOE CLEARANCE: SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR AND 9-INCHES ABOVE THE FINISH FLOOR SHALL BE CONSIDERED TOE CLEARANCE. TOE CLEARANCE SHALL EXTEND 17-INCHES MINIMUM TO 25-INCHES MAXIMUM UNDER AN ELEMENT WITH A WIDTH OF 30-INCHES MINIMUM. SPACE EXTENDING GREATER THAN 6-INCHES BEYOND THE AVAILABLE KNEE CLEARANCE AT 9-INCHES ABOVE THE FINISH FLOOR SHALL NOT BE CONSIDERED TOE CLEARANCE.
12. KNEE CLEARANCE: SPACE UNDER AN ELEMENT BETWEEN 9-INCHES AND 27-INCHES ABOVE THE FINISH FLOOR SHALL BE CONSIDERED KNEE CLEARANCE. KNEE CLEARANCE SHALL EXTEND 25-INCHES MAXIMUM UNDER AN ELEMENT AT 9-INCHES ABOVE THE FINISH FLOOR AND BE 30-INCHES WIDE MINIMUM. KNEE CLEARANCE SHALL BE 11-INCHES DEEP MINIMUM AT 9-INCHES ABOVE FINISH FLOOR, AND 8-INCHES DEEP MINIMUM AT 27-INCHES ABOVE FINISH FLOOR. BETWEEN 9-INCHES AND 27-INCHES ABOVE FINISH FLOOR, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1-INCH IN DEPTH FOR EACH 6-INCHES IN HEIGHT.
13. WATER SUPPLIES AND DRAIN PIPES BELOW LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT PER CBC 11B-606.5 AND CPC 403.3 AND SPECIFY THE PROTECTORS, INSULATORS OR BOTH SHALL COMPLY WITH ASME A112.18.9 OR ASTM C1822.
14. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE: 5 POUNDS MAXIMUM. LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGN. HAND OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM. OPERABLE PARTS OF FAUCETS AND SOAP DISPENSERS SHALL BE LOCATED WITHIN THE REACH RANGE PERMITTED BY THE KNEE AND TOE CLEARANCES PROVIDED. IN NO CASE SHALL OPERABLE PARTS BE FURTHER FROM THE FRONT EDGE OF THE LAVATORY, THAN THE DEPTH OF THE TOE CLEARANCE PROVIDED (19" MAX).

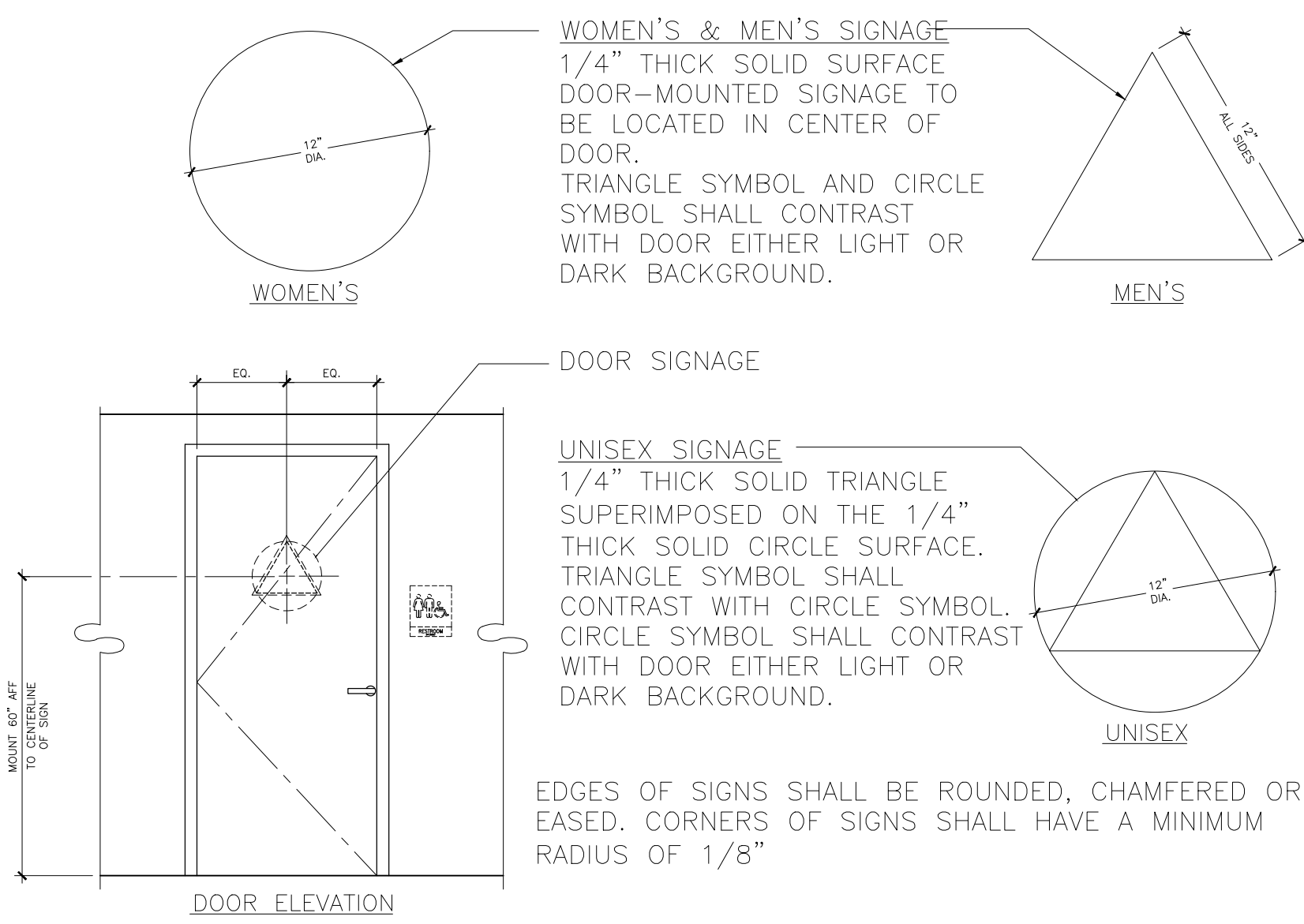
15. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM REFLECTIVE SURFACE NOT MORE THAN 40-INCHES FROM THE FLOOR.
16. LOCATE TOWEL AND WASTE RECEPTACLES WITH ALL OPERABLE PARTS NOT MORE THAN 40-INCHES FROM THE FLOOR. SANITARY NAPKIN DISPOSAL UNITS, IF PROVIDED, SHALL BE WALL MOUNTED AND LOCATED ON THE SIDEWALL BETWEEN THE REAR WALL OF THE TOILET AND THE TOILET PAPER DISPENSER, ADJACENT TO THE TOILET PAPER DISPENSER. THE DISPOSAL UNIT SHALL BE LOCATED BELOW THE GRAB BAR WITH THE OPENING OF THE DISPOSAL UNIT 19 INCHES MINIMUM ABOVE THE FINISH FLOOR PER 11B-604.7.2.
17. LOCATE TOILET TISSUE DISPENSERS ON THE WALL WITHIN 7-9 INCHES IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET (BOTTOM) OF THE TISSUE DISPENSER SHALL BE 19 INCHES MINIMUM ABOVE FINISH FLOOR, AND SHALL NOT BE LOCATED BEHIND THE GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY, OR DO NOT ALLOW CONTINUOUS PAPER FLOW.

GRAB BARS:

18. GRAB BARS, FASTENERS AND MOUNTING DEVICES SHALL BE DESIGNED FOR 250 LBS. PER LINEAR FEET LOAD.
19. GRAB BARS SHALL BE LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLED TOILET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED 33-INCHES MINIMUM TO 36-INCHES MAXIMUM ABOVE AND PARALLEL TO THE FLOOR. VERTICAL GRAB BAR SHALL BE 18-INCHES LONG, INSTALLED AT 39-INCHES TO 41-INCHES FROM THE REAR WALL AND 39-INCHES TO 41-INCHES ABOVE FINISH FLOOR.
20. GRAB BARS AT THE SIDE WALL SHALL BE AT LEAST 42-INCHES LONG MINIMUM. LOCATED 12-INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54-INCHES MINIMUM FROM THE REAR WALL WITH THE FRONT END POSITIONED 24 INCHES MINIMUM IN FRONT OF THE WATER CLOSET PER 11B-604.5.1. THE REAR WALL GRAB BAR SHALL BE 36-INCHES LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12-INCHES MINIMUM ON ONE SIDE AND 24-INCHES MINIMUM ON THE OTHER SIDE PER 11B-604.5.2.
21. GRAB BARS WITH CIRCULAR CROSS-SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM TO 2 INCHES MAXIMUM. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS-SECTION DIMENSION OF 2 INCHES MAXIMUM AND A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 4.8 INCHES MAXIMUM
22. IF THE GRAB BAR IS MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES.
23. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
24. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
25. COAT HOOKS SHALL BE LOCATED WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48-INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15-INCHES MINIMUM ABOVE THE FINISH FLOOR.
26. WHERE LOCKERS ARE PROVIDED, AT LEAST ONE AND NOT LESS THAN ONE PERCENT OF ALL LOCKERS SHALL BE MADE ACCESSIBLE TO THE PHYSICALLY DISABLED. A PATH OF TRAVEL NOT LESS THAN 36-INCHES IN CLEAR WIDTH SHALL BE PROVIDED TO THESE LOCKERS AND A CLEAR SPACE FOR A CIRCLE WITH DIAMETER OF 60-INCHES.

ADDITIONAL REQUIREMENTS:

27. CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL COMPLY WITH SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX PER 11B-308.1.1.
28. ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL COMPLY WITH SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX PER 11B-308.1.2.
29. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS. THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595C

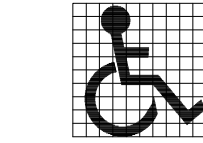


RESTROOM SIGNAGE

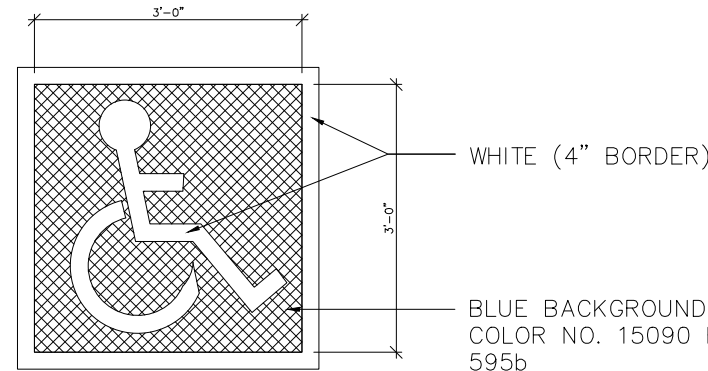
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INTERNATIONAL SYMBOL OF ACCESSIBILITY PROPORTIONS

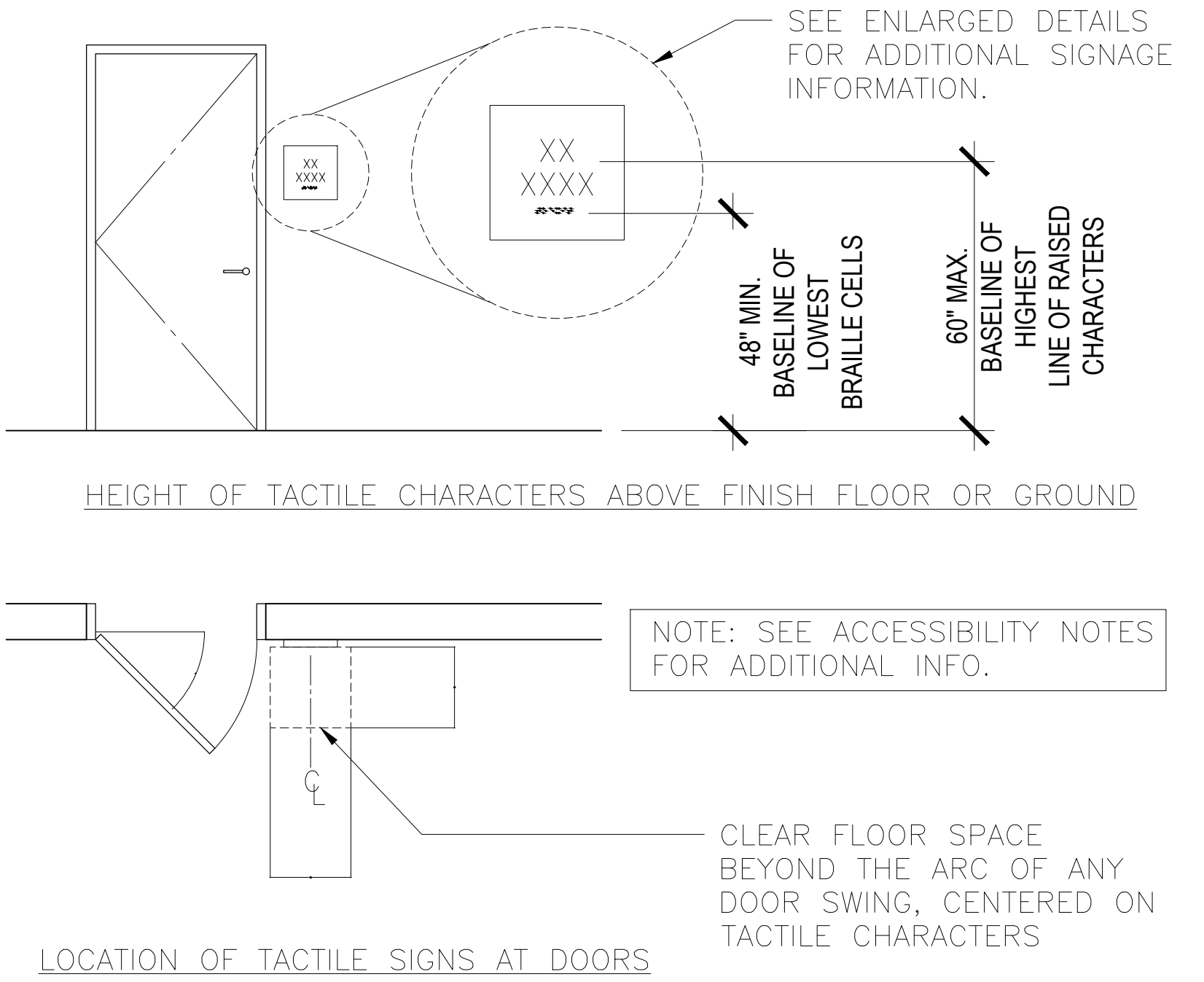


INTERNATIONAL SYMBOL OF ACCESSIBILITY

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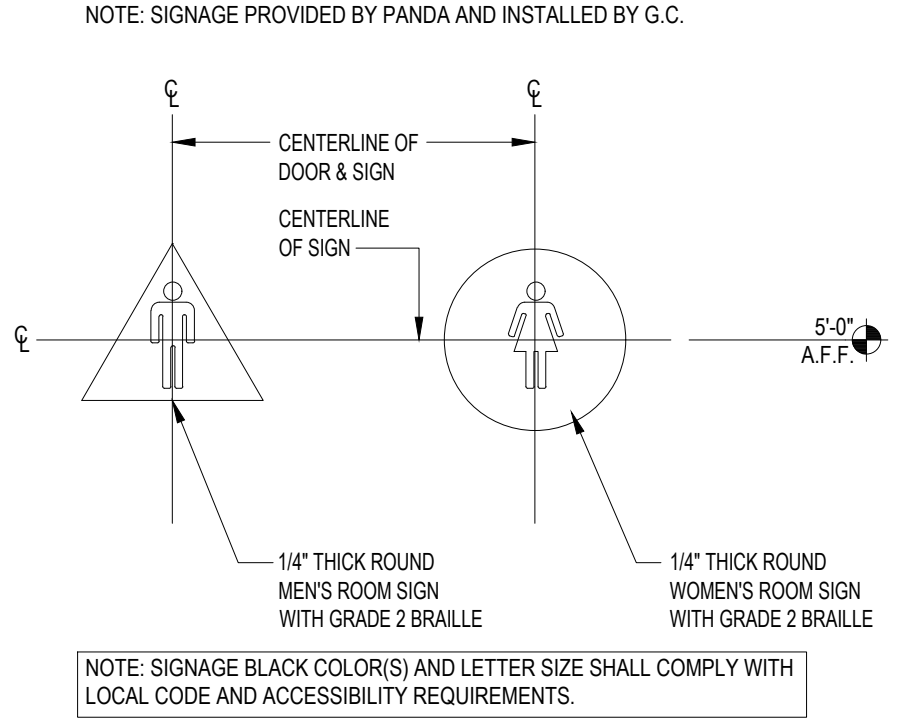


TYP. TACTILE SIGN INSTALLATION

4

Scale: N.T.S.

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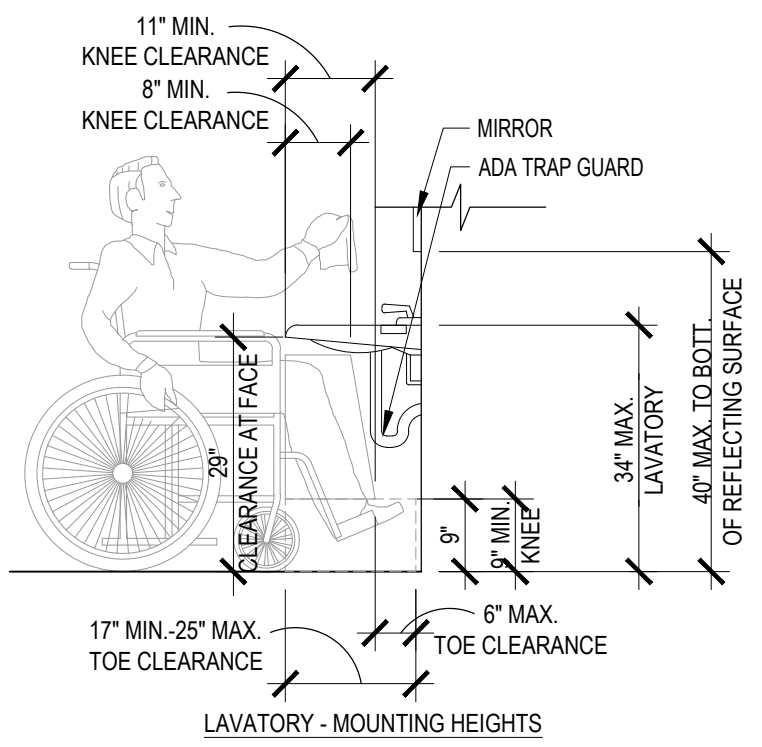
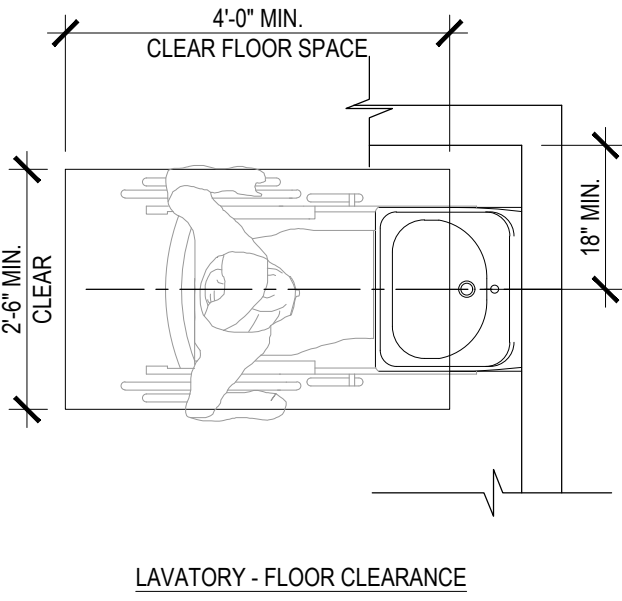
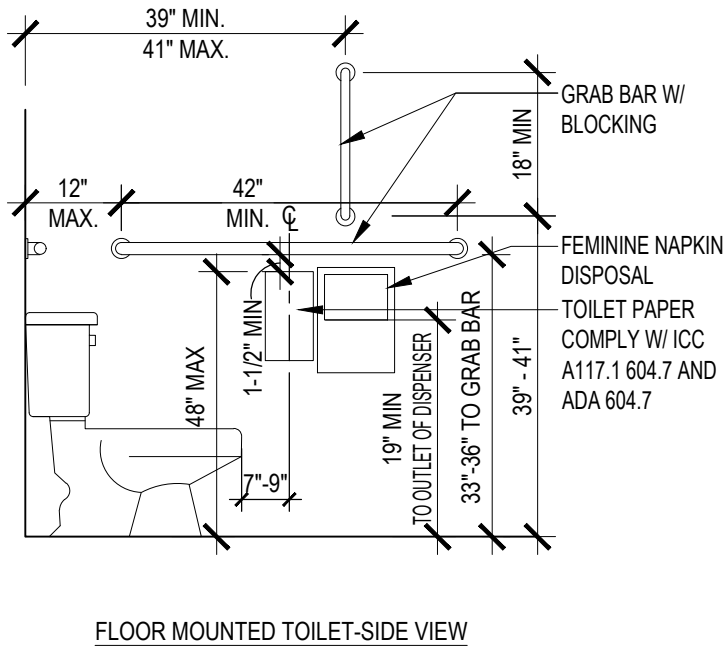
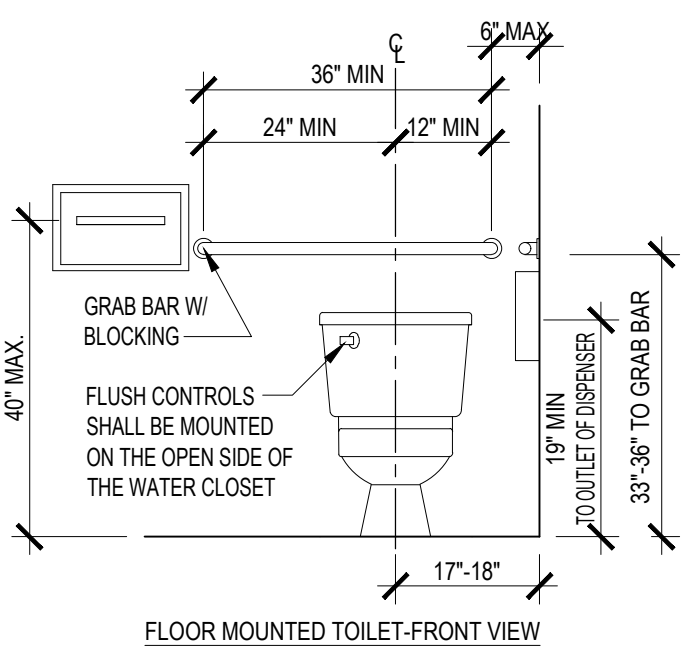
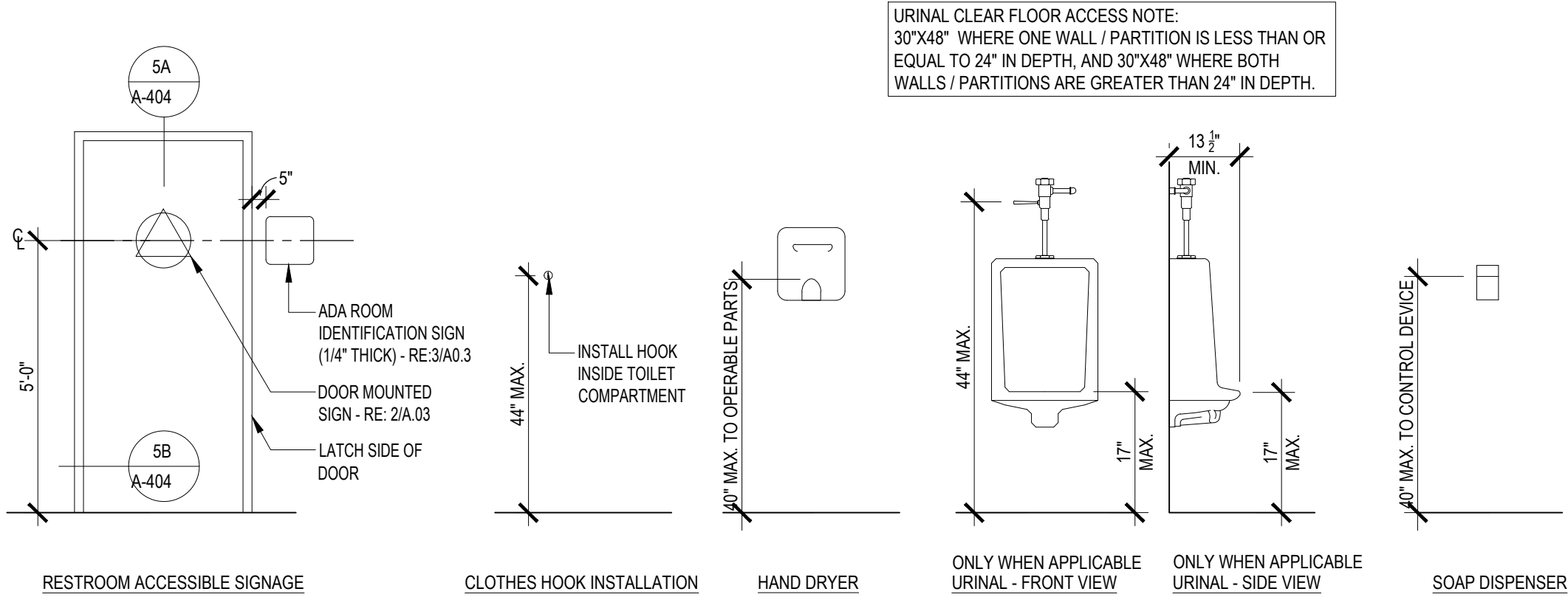


RESTROOM DOOR SIGNS

2

Scale: N.T.S.

-



STANDARD ACCESSIBLE MOUNTING HEIGHTS AND CLEARANCES

1

Scale: N.T.S.

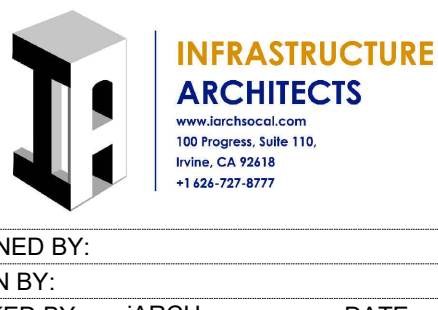
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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

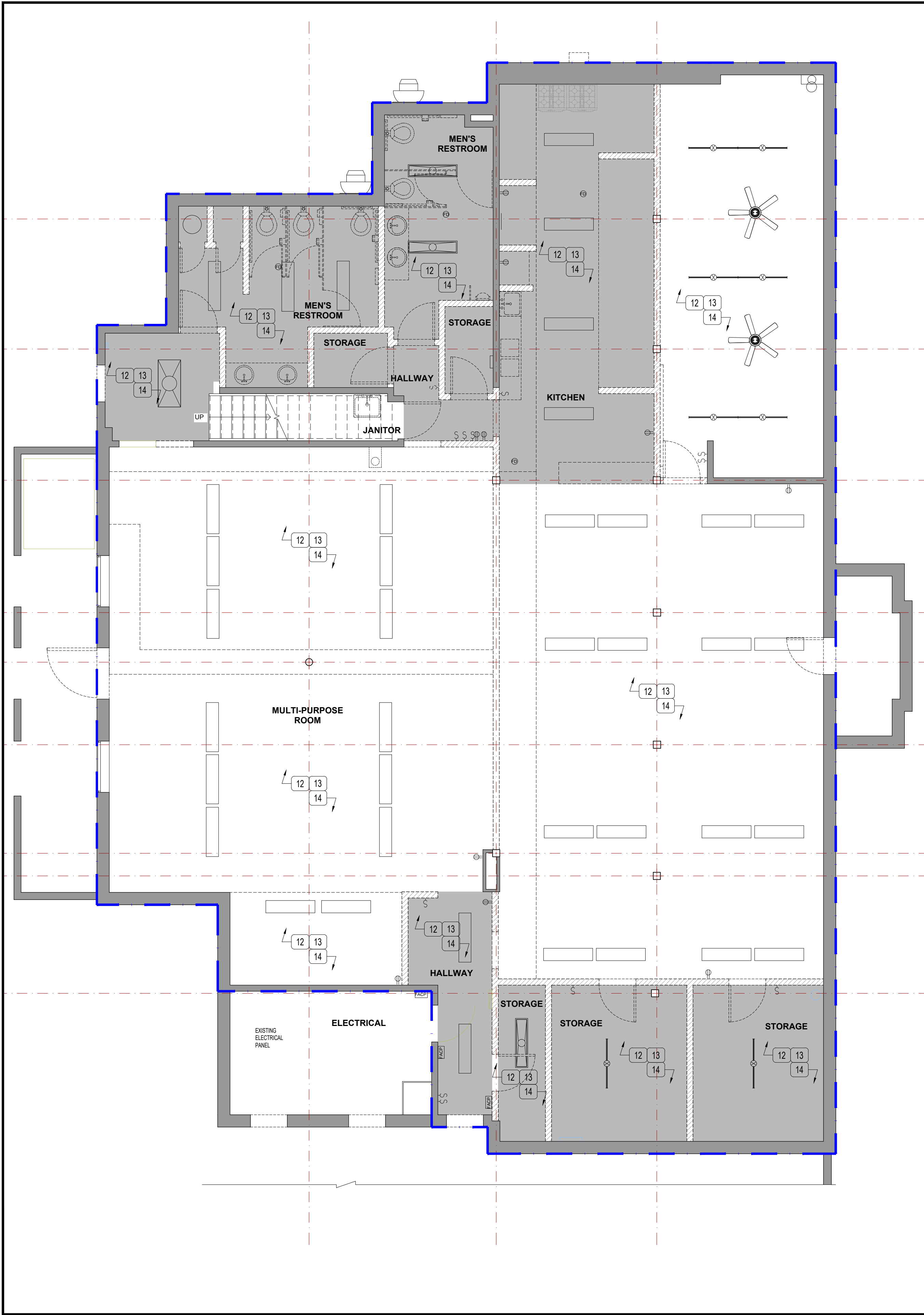
ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153.

REVISIONS				APPROV.
NO.	DATE	BY	DESCRIPTION	

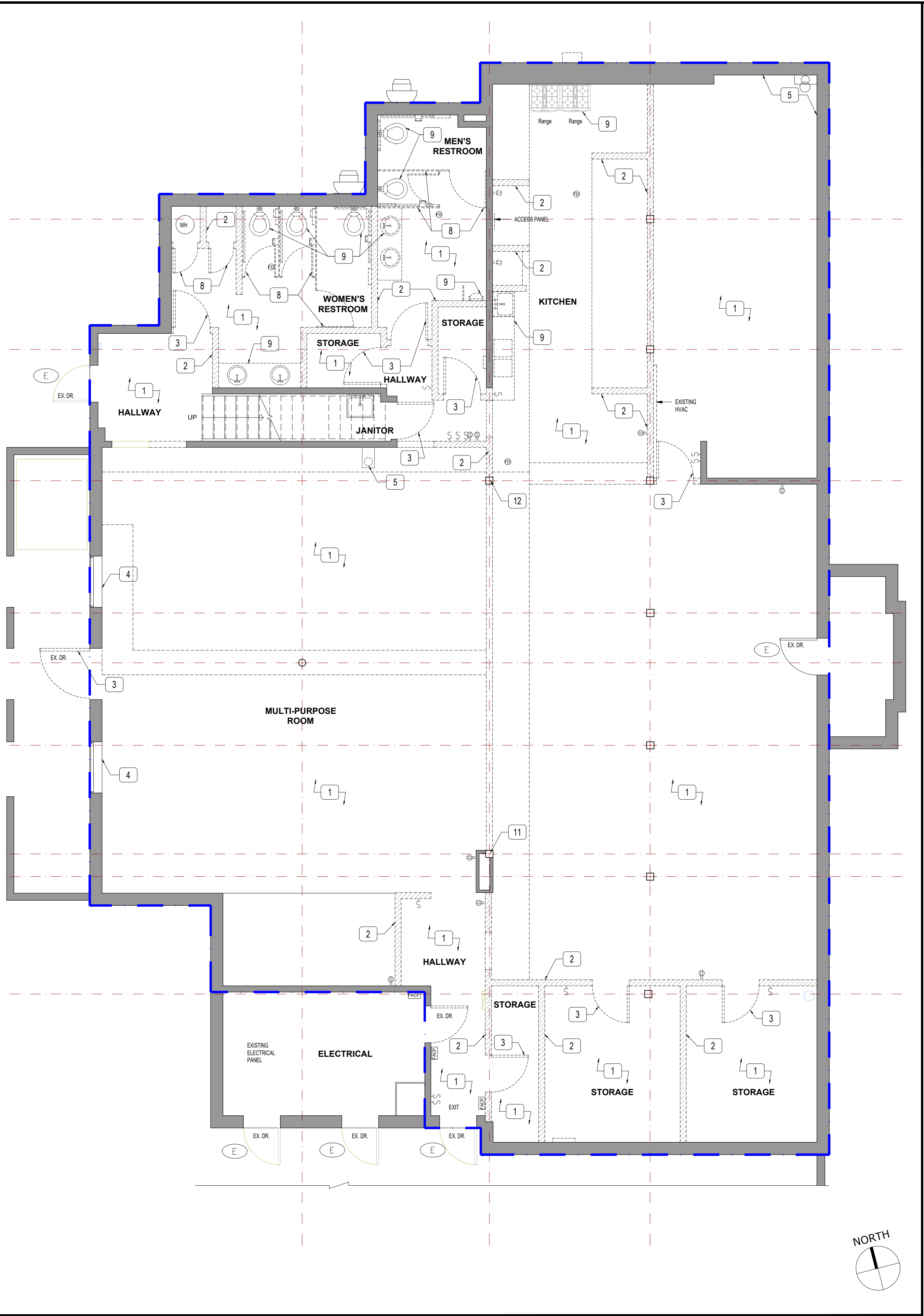


SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
ACCESSIBILITY NOTES & DETAILS

Sheet Number:
A0.2



DEMOLITION REFLECTED CEILING PLAN 2
Scale: 3/16" = 1'-0"



DEMOLITION PLAN 1
Scale: 3/16" = 1'-0"

DEMOLITION GENERAL NOTES

1. ALL WORK SHALL BE COORDINATED WITH THE PROJECT MANAGER AND OTHER RELEVANT PARTIES TO ENSURE SMOOTH EXECUTION AND MINIMAL DISRUPTION TO THE SURROUNDING AREAS.
2. PROTECT EXISTING STRUCTURES, UTILITIES, AND FINISHES NOT INCLUDED IN THE RENOVATION.
3. IMPLEMENT DUST AND NOISE CONTROL MEASURES AS NEEDED TO MAINTAIN A CLEAN AND SAFE ENVIRONMENT.
4. PERFORM ALL DEMOLITION WORK IN A CAREFUL AND CONTROLLED MANNER.
5. PROPERLY DISPOSE OF ALL DEBRIS IN COMPLIANCE WITH LOCAL REGULATIONS.
6. STORE ALL CONSTRUCTION MATERIALS IN A SECURE, ORGANIZED MANNER.
7. HANDLE MATERIALS CAREFULLY TO PREVENT DAMAGE AND ENSURE THEY REMAIN IN GOOD CONDITION.
8. FOLLOW ALL SAFETY PROTOCOLS AND REGULATIONS.
9. ENSURE THAT ALL PERSONNEL ON SITE WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE).
10. ALL WORK MUST COMPLY WITH RELEVANT BUILDING CODES, SAFETY STANDARDS, AND REGULATIONS.
11. OBTAIN NECESSARY PERMITS AND INSPECTIONS AS REQUIRED BY LOCAL AUTHORITIES.
12. ENSURE THAT ALL WORK MEETS INDUSTRY STANDARDS AND PROJECT SPECIFICATIONS.
13. CONDUCT REGULAR INSPECTIONS TO VERIFY THE QUALITY AND ACCURACY OF THE WORK PERFORMED.
14. MAINTAIN CLEAR COMMUNICATION WITH THE PROJECT TEAM, STAKEHOLDERS, AND CONTRACTORS.
15. REPORT ANY ISSUES, DELAYS, OR CHANGES IN THE SCOPE OF WORK IMMEDIATELY.
16. CLEAN THE JOB SITE DAILY TO ENSURE A SAFE AND ORGANIZED WORK AREA.
17. PERFORM A THOROUGH CLEANUP UPON PROJECT COMPLETION, LEAVING THE SITE IN GOOD CONDITION.

DEMOLITION PLAN NOTES #

1. DEMOLISH EXISTING FLOOR TILE THROUGHOUT ALL SCOPE OF WORK AND MORTAR BED DOWN TO THE CONCRETE SLAB. SAW CUT AND REMOVE PORTIONS OF THE EXISTING SLAB AS REQUIRED FOR INSTALLATION OF NEW FLOOR DRAINS.
2. DEMOLISH AND PROPERLY DISPOSE DESIGNATED WALLS AS INDICATED WITH DASHED LINES.
3. REMOVE ALL EXISTING DESIGNATED DOORS AND INDICATED WITH DASHED LINES.
4. REMOVE ALL EXISTING DESIGNATED WINDOWS AND INDICATED WITH DASHED LINES.
5. REMOVE ALL EXISTING PLUMBING FIXTURES AND MISCELLANEOUS PER PLUMBING DRAWINGS.
6. REMOVE ALL EXISTING LIGHTING FIXTURES, WRINGING AND MISCELLANEOUS PER ELECTRICAL PLANS.
7. DEMOLISH AND PROPERLY DISPOSE ALL EXISTING WALL AND FLOOR TILE FINISHES THROUGHOUT KITCHEN AND RESTROOM.
8. REMOVE ALL EXISTING PARTITIONS, HARDWARE AND MISCELLANEOUS.
9. REMOVE ALL EXISTING KITCHEN AND RESTROOM FIXTURES, EQUIPMENT AND MISCELLANEOUS.
10. REMOVE ALL EXISTING RESTROOM SIGNS AND ACCESSORIES.
11. DEMOLISH AND PROPERLY DISPOSE DESIGNATED POSTS AS INDICATED IN DEMOLITION PLAN.
12. REMOVE ALL EXISTING CEILING GYPSUM BOARD, ACOUSTIC CEILING TILE (ACT); PREPARE THE STRUCTURE TO RECEIVE NEW CEILING SYSTEM PER CONSTRUCTION RCP PLAN.
13. REMOVE ALL EXISTING HVAC REGISTERS, DIFFUSERS, AND DUCTWORK TO ACCOMMODATE NEW HVAC SYSTEM INSTALLATION.
14. REMOVE ALL EXISTING EXHAUST FANS AND ASSOCIATED COMPONENTS TO RECEIVE NEW.

DEMOLITION PLAN LEGEND

- AREA OF WORK
- EXISTING WALL TO REMAIN
- EXISTING WALL TO DEMOLISH
- ITEMS TO DEMOLISH
- EXISTING DOOR TO REMAIN

CEILING LEGEND

- C.H. = #'-#"
- (E) CEILING HEIGHT
- GYP. BOARD CEILING TO REMOVE



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA
ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153.

REVISIONS				APPROV.
NO.	DATE	BY	DESCRIPTION	



DESIGNED BY: IARCH
DRAWN BY: IARCH
CHECKED BY: IARCH
DATE: IARCH

INFRASTRUCTURE ARCHITECTS
www.iarchitects.com
180 Fremont, Suite 110
Irvine, CA 92618
949.222.8777

CITY OF MONTEBELLO
Department of Public Works

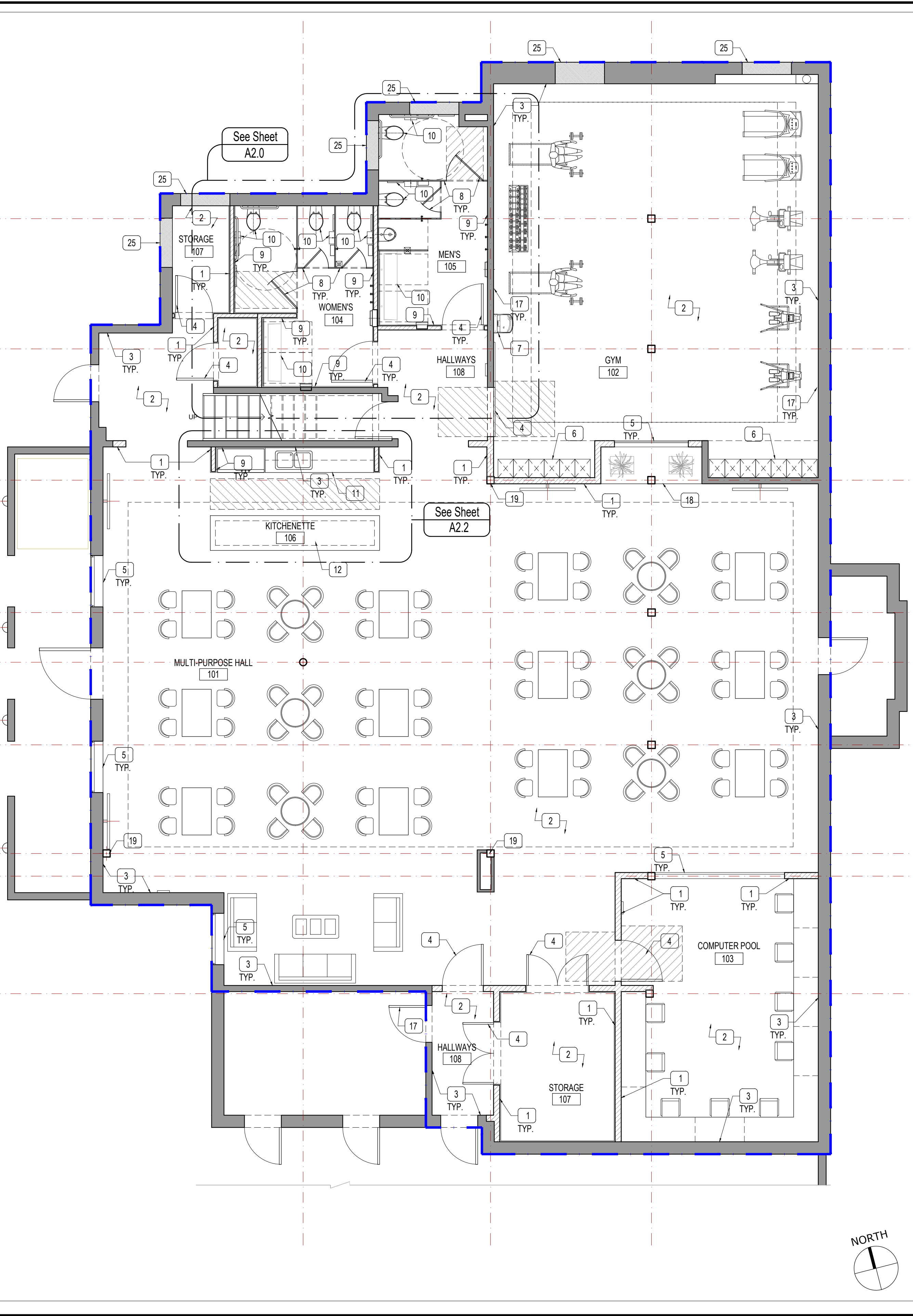
SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
DEMOLITION FLOOR PLAN & REFLECTED CEILING
PLAN - 1ST FLOOR

Sheet Number:
A1.0



CONSTRUCTION CEILING PLAN 2

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



CONSTRUCTION PLAN 1

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

CONSTRUCTION GENERAL NOTES

- ALL WORK SHALL BE COORDINATED WITH THE PROJECT MANAGER AND OTHER RELEVANT PARTIES TO ENSURE SMOOTH EXECUTION AND MINIMAL DISRUPTION TO THE SURROUNDING AREAS.
- ALL WORK SHALL COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND APPLICABLE CODES AND REGULATIONS. IMPLEMENT DUST AND NOISE CONTROL MEASURES AS NEEDED TO MAINTAIN A CLEAN AND SAFE ENVIRONMENT.
- ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE LATEST VERSION OF THE LOCAL BUILDING CODES, FIRE CODES, ADA (AMERICANS WITH DISABILITIES ACT) STANDARDS, AND ANY OTHER RELEVANT REGULATIONS. PROPERLY DISPOSE OF ALL DEBRIS IN COMPLIANCE WITH LOCAL REGULATIONS.
- ALL MATERIALS AND INSTALLATIONS MUST MEET INDUSTRY STANDARDS, INCLUDING ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS) AND ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE) GUIDELINES. HANDLE MATERIALS CAREFULLY TO PREVENT DAMAGE AND ENSURE THEY REMAIN IN GOOD CONDITION.
- FOLLOW ALL SAFETY PROTOCOLS AND REGULATIONS.
- ENSURE THAT ALL PERSONNEL ON SITE WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE).
- COORDINATE WITH THE CITY'S REPRESENTATIVES REGARDING CONSTRUCTION SCHEDULE, ACCESS, AND ANY OTHER REQUIREMENTS TO MINIMIZE DISRUPTION TO THE OPERATIONS OF CITY HALL. COORDINATE WITH CITY HALL PERSONNEL FOR NOISE CONTROL AND SCHEDULING TO MINIMIZE DISRUPTIONS TO NORMAL OPERATIONS. CONDUCT REGULAR INSPECTIONS TO VERIFY THE QUALITY AND ACCURACY OF THE WORK PERFORMED.
- VERIFY THAT ALL ELECTRICAL INSTALLATIONS MEET CODE REQUIREMENTS, INCLUDING PROPER GROUNDING AND CONNECTIONS. REPORT ANY ISSUES, DELAYS, OR CHANGES IN THE SCOPE OF WORK IMMEDIATELY.
- CLEAN THE JOB SITE DAILY TO ENSURE A SAFE AND ORGANIZED WORK AREA.
- SUBMIT ALL MANUFACTURER WARRANTIES FOR INSTALLED PRODUCTS AND SYSTEMS TO THE CITY HALL REPRESENTATIVES.
- INSTALL NEW REQUIRED CEILING FRAMING, PROVIDE SUPPORT FOR HVAC, LIGHTING, AND OTHER SYSTEMS, AND ENSURE COMPLIANCE WITH STRUCTURAL AND CONSTRUCTION PLANS.

CONSTRUCTION PLAN NOTES (#)

- CONSTRUCT NEW INTERIOR WALLS AS INDICATED WITH HATCH LINES, PER CONSTRUCTION AND STRUCTURAL PLANS. ENSURE ALL WORK MEETS DESIGN SPECIFICATIONS AND CODE REQUIREMENTS.
- FURNISH AND INSTALL ALL NEW FLOORING FINISHES PER FINISH SCHEDULE.
- PATCH AND REPAIR ALL EXISTING LOOSE AND FLAKING INTERIOR DAMAGED WALLS, RE-PAINT TO MATCH EXISTING, PER FINISH SCHEDULE.
- FURNISH AND INSTALL ALL NEW DOORS PER DOOR SCHEDULE AND MANUFACTURE SPECIFICATIONS.
- FURNISH AND INSTALL ALL NEW WINDOWS PER WINDOW SCHEDULE AND MANUFACTURE SPECIFICATIONS.
- FURNISH AND INSTALL LOCKERS PER MANUFACTURE SPECIFICATION ON SHEET A4.0.
- FURNISH AND INSTALL FILTERED DRINKING FOUNTAIN PER SPECIFICATION ON SHEET A4.0.
- FURNISH AND INSTALL ALL NEW RESTROOM PARTITIONS, AND MISCELLANEOUS.
- FURNISH AND INSTALL RESTROOM AND KITCHEN WALL AND FLOOR TILES PER INTERIOR WALL VIEWS & FINISH SCHEDULE.
- FURNISH AND INSTALL ALL NEW RESTROOM FIXTURE AND EQUIPMENT AND MISCELLANEOUS ITEMS PER CONSTRUCTION PLAN & EQUIPMENT SCHEDULE AND MANUFACTURE SPECIFICATION.
- FURNISH AND INSTALL KITCHEN BASE AND UPPER CABINETS AND APPLIANCES PER CONSTRUCTION PLAN & FINISH SCHEDULE AND MANUFACTURE SPECIFICATION.
- FURNISH AND INSTALL KITCHEN SERVING COUNTER TOP PER ENLARGEMENT PLAN.
- FURNISH AND INSTALL PLUMBING & ELECTRICAL FIXTURES AND MISCELLANEOUS PER M&E PLANS.
- FURNISH AND INSTALL INTERNATIONAL RESTROOM SIGNS.
- FURNISH AND INSTALL ACCESSIBLE INTERNATIONAL AND DIRECTIONAL SIGNS RESTROOM AND INTERIOR SIGNS PER SHEET A0.2.
- REVISE DOOR SWING TO OPEN INWARD. REPAIR ANY WALL DAMAGE CAUSED BY MODIFICATION AND REPAIR TO MATCH EXISTING FINISH.
- FURNISH AND INSTALL MIRROR PER MANUFACTURE'S SPECIFICATIONS AS ON SHEET A4.0.
- FURNISH AND PLACE TWO FLOWER POTS.
- CONSTRUCT NEW POST AS DESIGNATED IN CONSTRUCTION PLAN PER STRUCTURE DRAWING.
- PATCH AND REPAIR EXISTING CEILING ASSEMBLY AS REQUIRED.
- INSTALL NEW GYPSUM BOARD CEILING PER CONSTRUCTION PLAN, APPLY JOINT COMPOUND, SAND, PREPARE FOR FINISHES. PAINT NEW CEILING AS SPECIFIED.
- FURNISH AND INSTALL ALL NEW LIGHTING FIXTURES, AND OTHER CEILING ELEMENTS, PER ELECTRICAL, RCP AND MECHANICAL DRAWINGS.
- INSTALL NEW HVAC REGISTERS, DIFFUSERS, AND DUCTWORK; INSTALL NEW EXHAUST FANS WITH ASSOCIATED WIRING, AND ENSURE PROPER INTEGRATION AS PER MECHANICAL, ELECTRICAL, AND CONSTRUCTION PLANS.
- INSTALL NEW 2' x 2' ACOUSTICAL TILE AND GRID CEILING PER CONSTRUCTION PLAN, APPLY JOINT COMPOUND, SAND, PREPARE FOR FINISHES. PAINT NEW CEILING AS SPECIFIED.
- FILL IN EXISTING WINDOW/DOOR OPENING. PROVIDE NEW WALL CONSTRUCTION TO MATCH THE EXISTING WALL THICKNESS AND CONSTRUCTION. FINISH BOTH SIDES TO MATCH THE EXISTING ADJACENT WALL FINISHES OF EACH RESPECTIVE SPACE.
- MAINTAIN THE EXISTING PIPING AND RELOCATE IT AS REQUIRED PER SHEET A7.0.

NOTES:

- FOR PLUMBING FIXTURES, SEE SHEET P1.0.
- FOR TOILET ACCESSORIES & PARTITIONS, SEE ACCESSORY SCHEDULE ON SHEET A4.0.
- FOR FINISHES, SEE INTERIOR FINISH SCHEDULE ON SHEET A4.0.

CONSTRUCTION PLAN LEGEND

- AREA OF WORK
- (E) WALLS - TO REMAIN
- (N) WALLS - TO CONSTRUCT
- 30"x48" ACCESSIBLE CLEARANCE
- 60" TURNING ACCESSIBLE CLEARANCE
- ACCESSIBLE CLEARANCE
- (N) FIRE EXTINGUISHER

CONSTRUCTION CEILING LEGEND

- (N) 2'x2' ACOUSTICAL TILE AND GRID CEILING
- (N) GYP. BOARD CEILING
- LED CEILING MOUNTED LIGHT
- CEILING MOUNTED EXHAUST FAN
- (N) RECESSED LED 2'x4' LIGHTING
- (N) EXIT SIGN



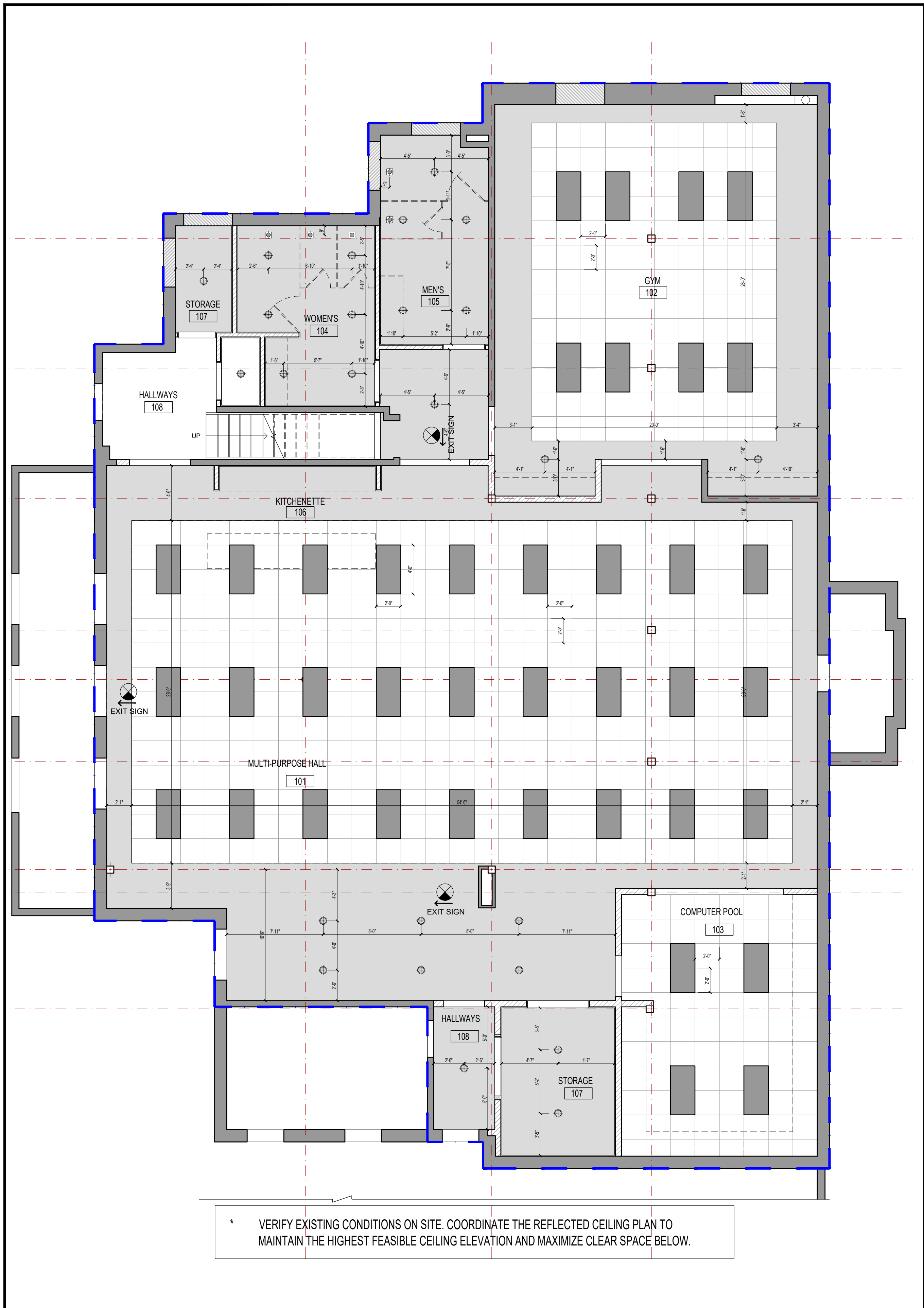
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

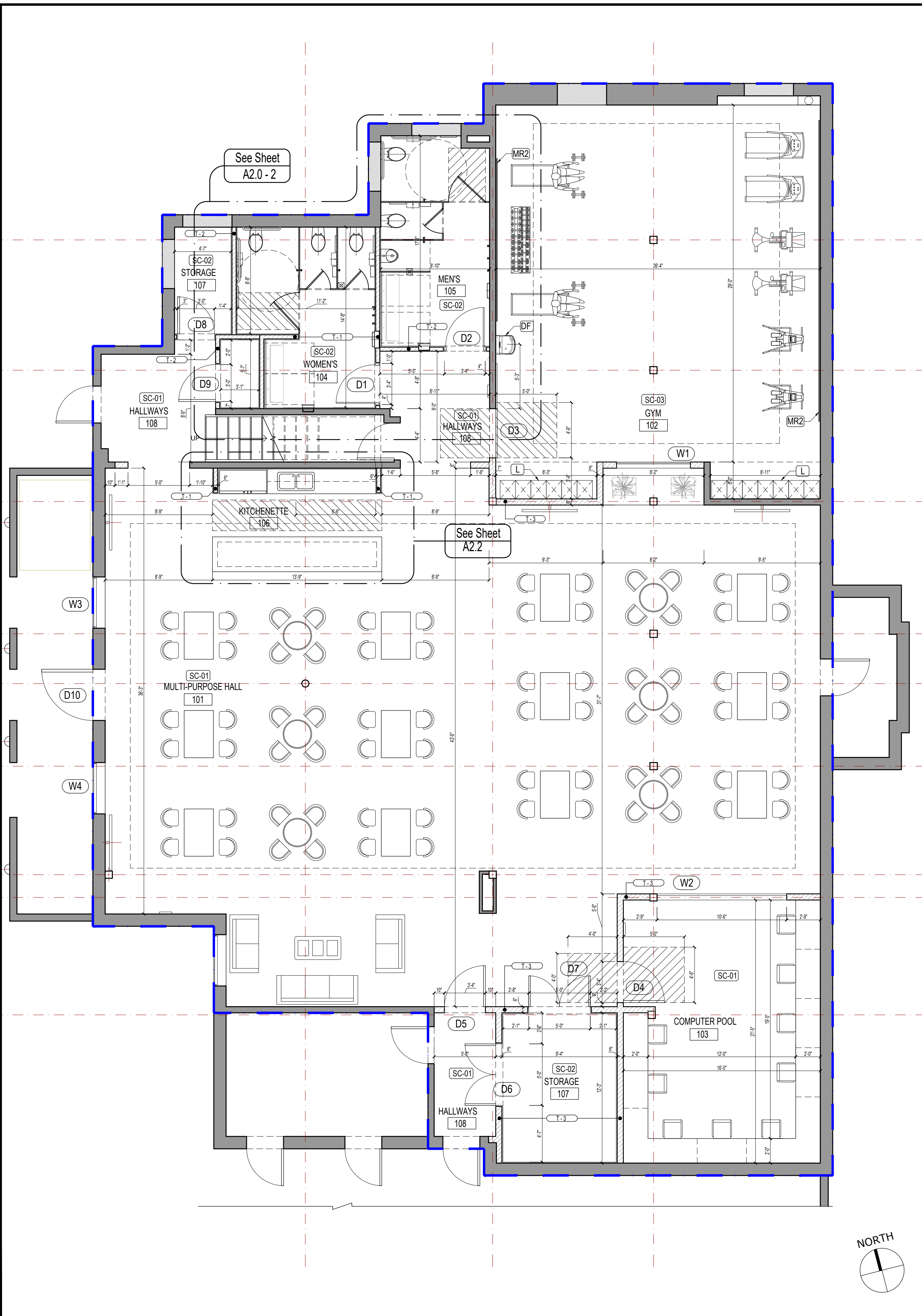


CITY OF MONTEBELLO
SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
FLOOR PLAN & REFLECTED CEILING PLAN
- 1ST FLOOR

Sheet Number:
A1.1



REFLECTED CIELING DIMENSION PLAN 2
Scale: 3/8" = 1'-0"



DIMENSION PLAN 1
Scale: 3/16" = 1'-0"

GENERAL DIMENSION NOTE

- ALL DIMENSIONS ARE TO BE VERIFIED ON SITE BEFORE ANY CONSTRUCTION OR FABRICATION BEGINS. ANY DISCREPANCIES BETWEEN THE DIMENSIONS ON THIS DRAWING AND THE ACTUAL SITE CONDITIONS MUST BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
- DIMENSIONS ARE TO BE TAKEN FROM FINISHED SURFACES, GRID LINES, OR CENTERLINES AS INDICATED ON THE DRAWING. IF NOT SPECIFIED, REFER TO THE NEAREST STRUCTURAL ELEMENT.
- DO NOT SCALE THE DRAWING FOR DIMENSIONS. ALL DIMENSIONS MUST BE TAKEN FROM THE NOTED MEASUREMENTS PROVIDED ON THE DRAWING.
- FLOOR ELEVATIONS AND CEILING HEIGHTS ARE TO BE CONFIRMED AS PER THE SPECIFIED LEVELS. ENSURE THAT THESE ALIGN WITH THE SPECIFIED FINISH FLOOR LEVEL (FFL) AND FINISHED CEILING LEVEL (FCL).
- ALL CLEARANCES AND TOLERANCES SHALL MEET THE BUILDING CODES AND STANDARDS SPECIFIED FOR THIS PROJECT. ENSURE ADEQUATE SPACE FOR ANY INSTALLATION AND FUTURE MAINTENANCE ACCESS.
- ANY MODIFICATIONS OR ADJUSTMENTS REQUIRED DUE TO UNFORESEEN SITE CONDITIONS MUST BE APPROVED BY THE PROJECT ARCHITECT OR ENGINEER BEFORE PROCEEDING.
- ALL MEASUREMENTS ARE IN INCHES AND FEET UNLESS OTHERWISE NOTED. METRIC CONVERSIONS SHOULD BE VERIFIED WHERE APPLICABLE.
- OPENING LOCATIONS AND SIZES FOR DOORS, WINDOWS, AND OTHER PENETRATIONS MUST MATCH THOSE SHOWN IN THE APPROVED ARCHITECTURAL PLANS.
- COORDINATE WITH ALL RELATED TRADES TO ENSURE ALL ROUGH OPENINGS, BLOCKING, AND BACKING ARE ACCURATELY POSITIONED TO ACCOMMODATE FIXTURES, FITTINGS, AND FINISHES.
- ENSURE COMPLIANCE WITH ADA AND LOCAL BUILDING CODE REQUIREMENTS WHERE APPLICABLE, INCLUDING BUT NOT LIMITED TO CLEARANCES, ACCESSIBLE PATHS, AND HANDRAILS.

EQUIPMENT AND FIXTURE LEGEND

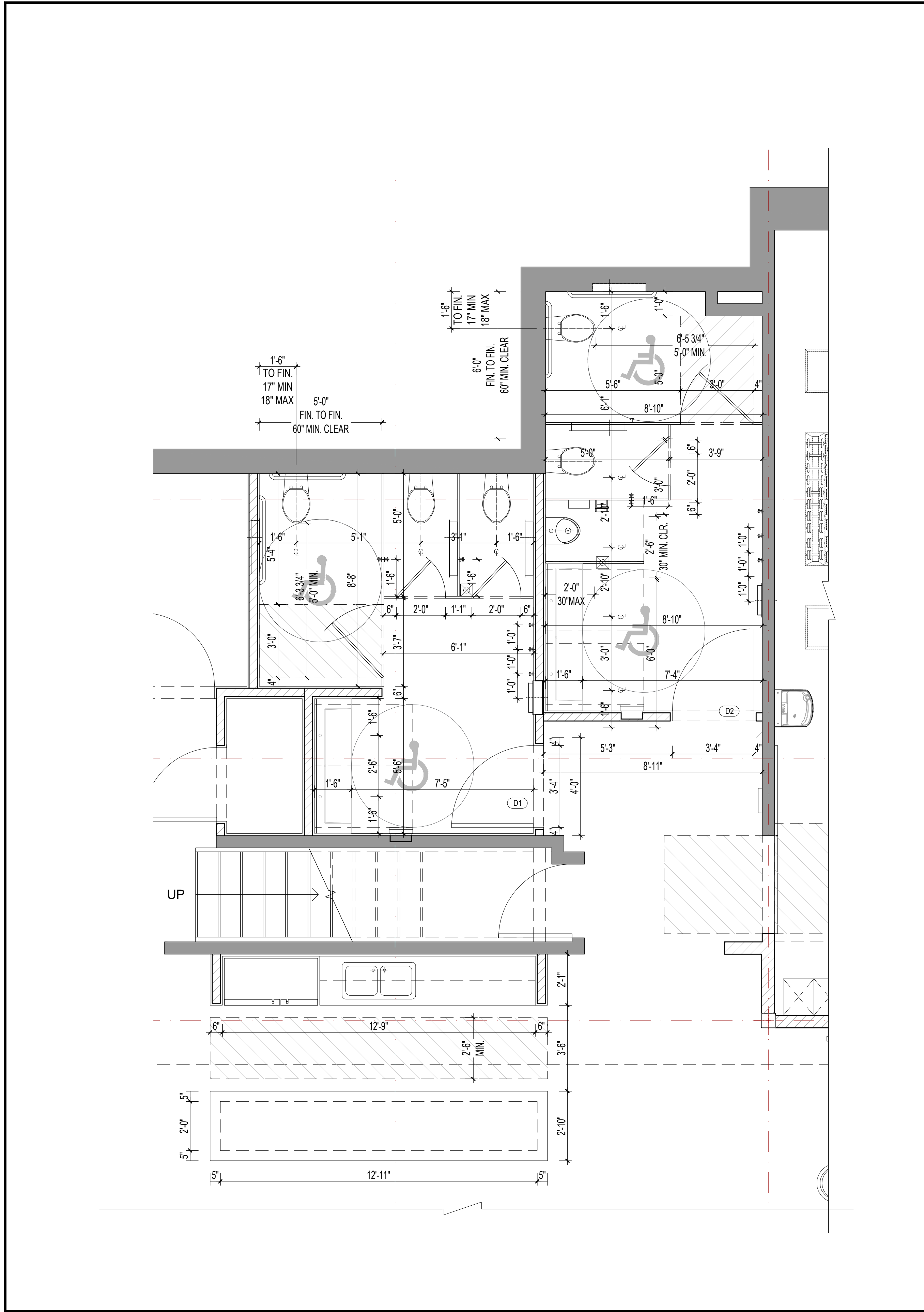
DF	DRINKING FOUNTAIN
MR2	MIRROR
L	LOCKER

FLOOR PLAN LEGEND

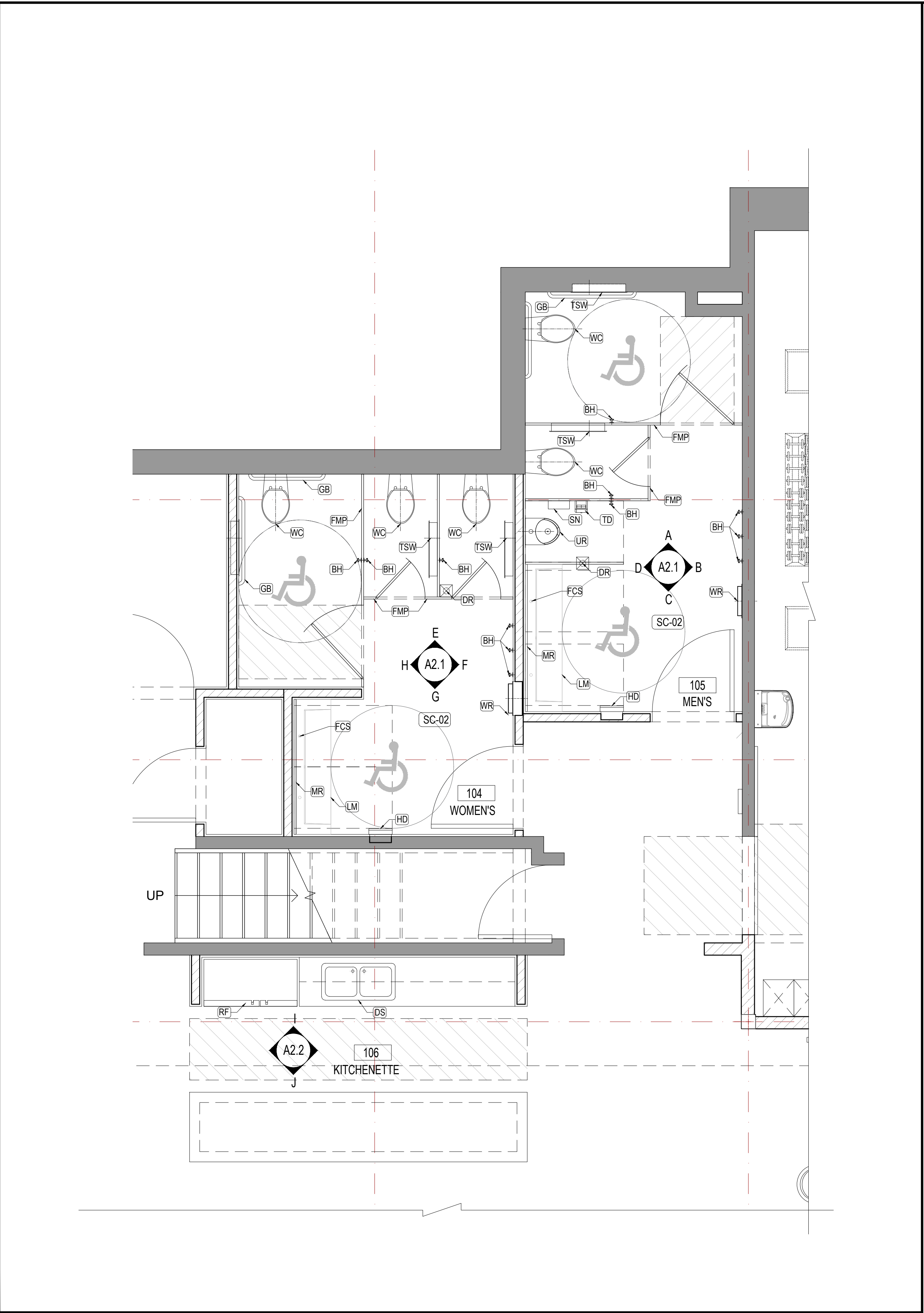
—	AREA OF WORK
(E) WALLS - TO REMAIN	
(N) WALLS - TO CONSTRUCT	
30"x48" ACCESSIBLE CLEARANCE	
60" TURNING ACCESSIBLE CLEARANCE	
ACCESSIBLE CLEARANCE	
SC-#	FLOORING - SEE SHEET A4.0
W#	WINDOW TYPE - SEE SHEET A5.0
D#	DOOR TYPE - SEE SHEET A5.0
T-#	WALL TYPE - SEE SHEET A6.0
(N) FIRE EXTINGUISHER	

CONSTRUCTION CEILING LEGEND

C.H. = #'-#"	(E) CEILING HEIGHT
(N) 2'x2' ACOUSTICAL TILE AND GRID CEILING	
(N) GYP. BOARD CEILING	
LED CEILING MOUNTED LIGHT	
CEILING MOUNTED EXHAUST FAN	
(N) RECESSED LED 2'x4' LIGHTING	
(N) EXIT SIGN	



DIMENSION PLAN 2
Scale: 3/8" = 1'-0"



EQUIPMENT PLAN 1
Scale: 3/8" = 1'-0"

EQUIPMENT AND FIXTURE LEGEND

- LM WALL-MOUNTED LAVATORY
- WC AUTOMATIC FLUSH WATER CLOSET
- UR UNIVERSAL URINAL
- WT WASTE CHUTE FOR COUNTERTOP
- HD HAND DRIER
- GB GRAB BAR
- DR FLOOR DRAIN
- WR WASTE RECEPTACLE and PAPER TOWEL DISPENSER
- BH BAG HOOK
- SN SANITARY NAPKIN RECEPTACLE
- TD TOILET TISSUE DISPENSER
- FCS COORDINATED FAUCET and SOAP DISPENSER
- TSW TISSUE/ SEAT COVER DISPENSER/ WASTE DISPOSAL
- FMP FLOOR MOUNTED PARTITION
- MR MIRROR
- DS DOUBLE COMPARTMENT SINK
- RF REFRIGERATOR

- NOTES:
- FOR PLUMBING FIXTURES, SEE SHEET P1.0.
 - FOR TOILET ACCESSORIES & PARTITIONS, SEE ACCESSORY SCHEDULE ON SHEET A4.0.
 - FOR FINISHES, SEE INTERIOR FINISH SCHEDULE ON SHEET A4.0.

CONSTRUCTION PLAN LEGEND

- AREA OF WORK
- (E) WALLS - TO REMAIN
- (N) WALLS - TO CONSTRUCT
- 30"x48" ACCESSIBLE CLEARANCE
- 60" TURNING ACCESSIBLE CLEARANCE
- ACCESSIBLE CLEARANCE
- SC-# FLOORING - SEE SHEET A4.0
- W-# WINDOW TYPE - SEE SHEET A5.0
- D-# DOOR TYPE - SEE SHEET A5.0
- T-# WALL TYPE - SEE SHEET A6.0
- (N) FLOOR DRAIN - TO INSTALL
- (N) BAG HOOK - TO INSTALL
- (N) FIRE EXTINGUISHER

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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REVISIONS				APPROV.
NO.	DATE	BY	DESCRIPTION	

UNDER THE SUPERVISION OF:

REGISTERED PROFESSIONAL ENGINEER
RAYMOND REZA ABASI
No. 48091
Exp. 06/30/26
STATE OF CALIFORNIA

DESIGNED BY: IARCH
DRAWN BY: IARCH
CHECKED BY: IARCH DATE:

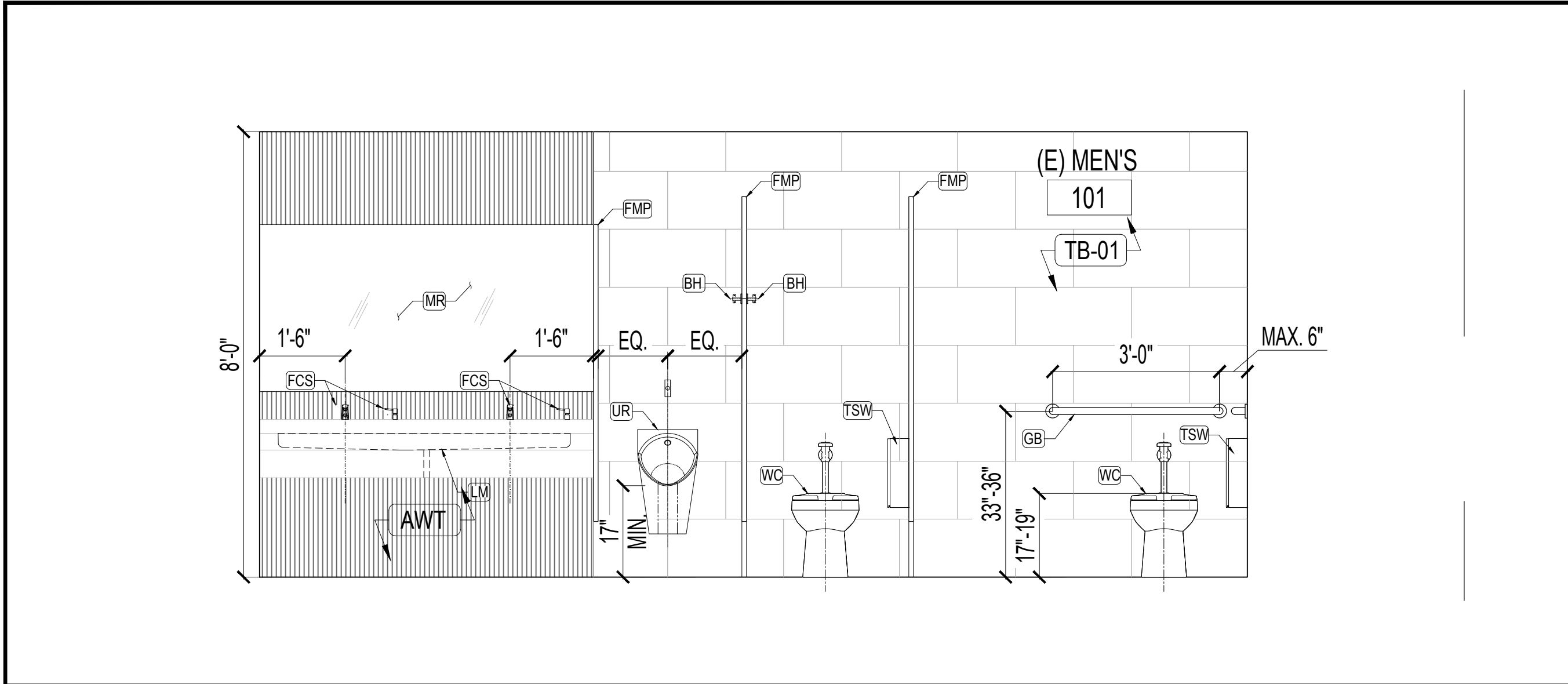
INFRASTRUCTURE ARCHITECTS
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+1 949 727 8775

CITY OF MONTEBELLO

Department of Public Works

SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
ENLARGED RESTROOM PLAN - 1ST FLOOR

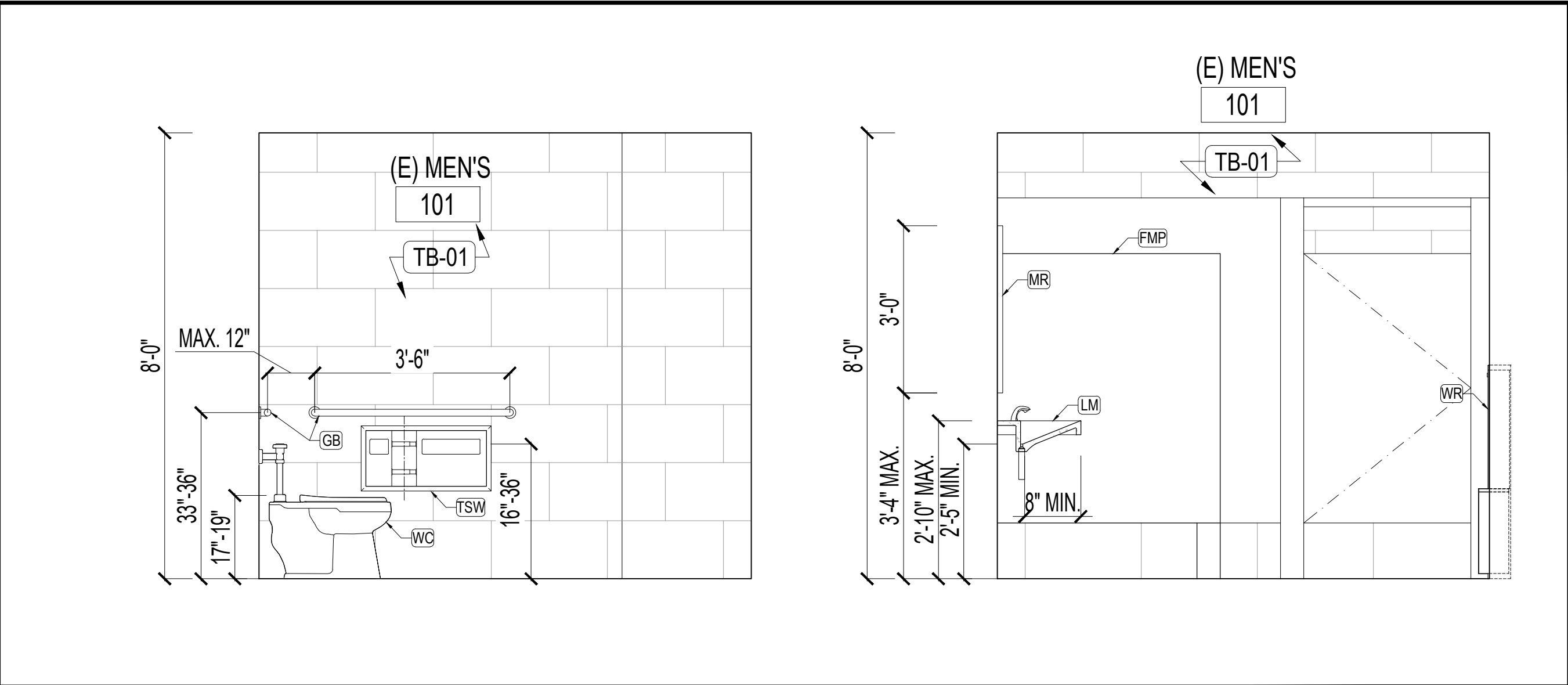
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A2.0



INTERIOR ELEVATION "D"

4

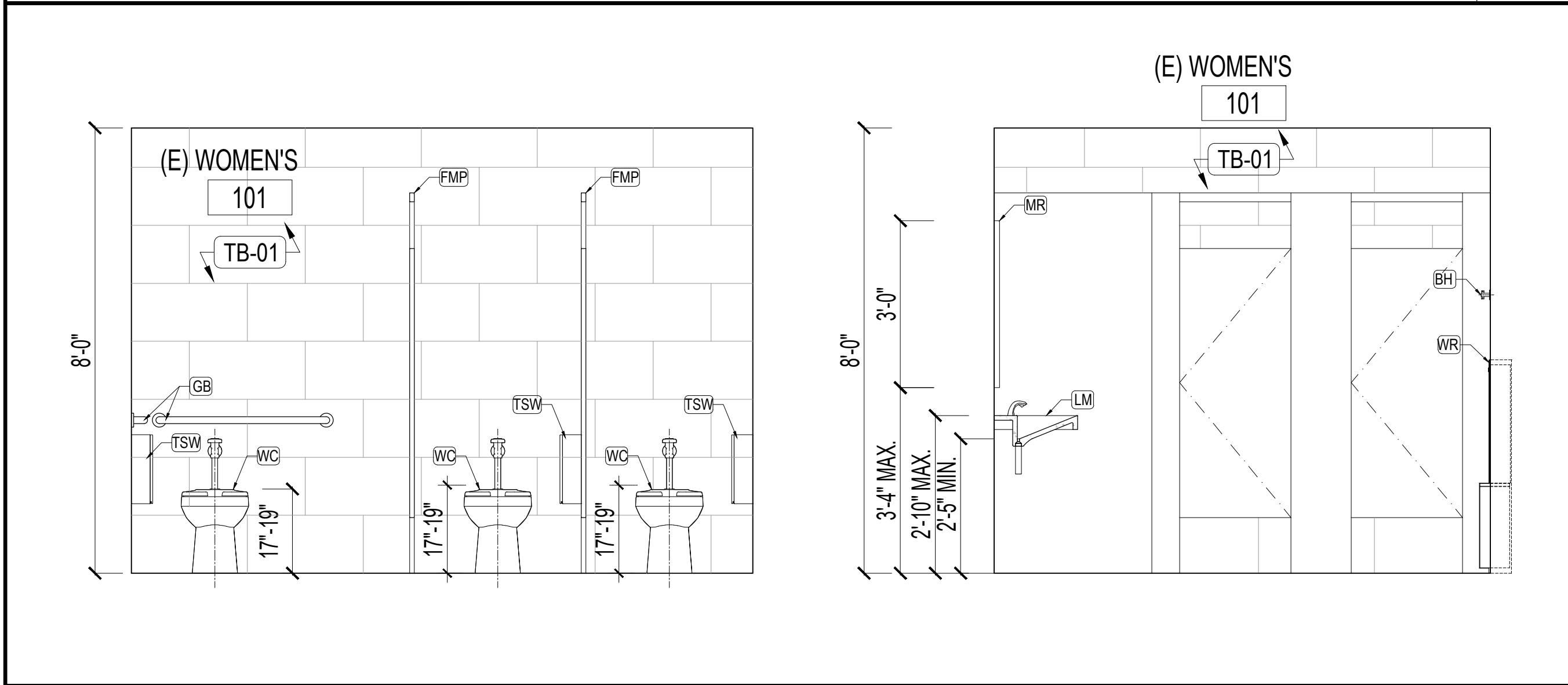
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INTERIOR ELEVATION "A"

1

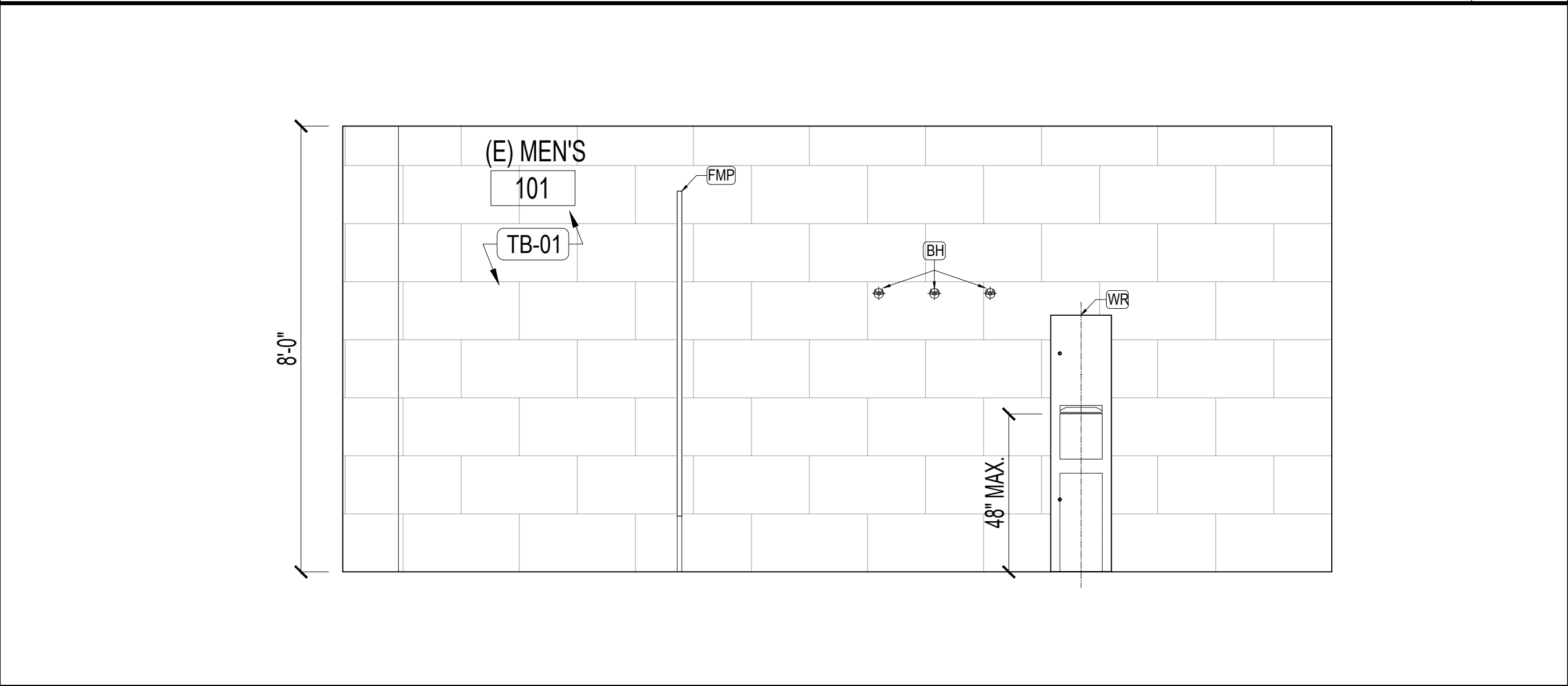
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INTERIOR ELEVATION "E"

5

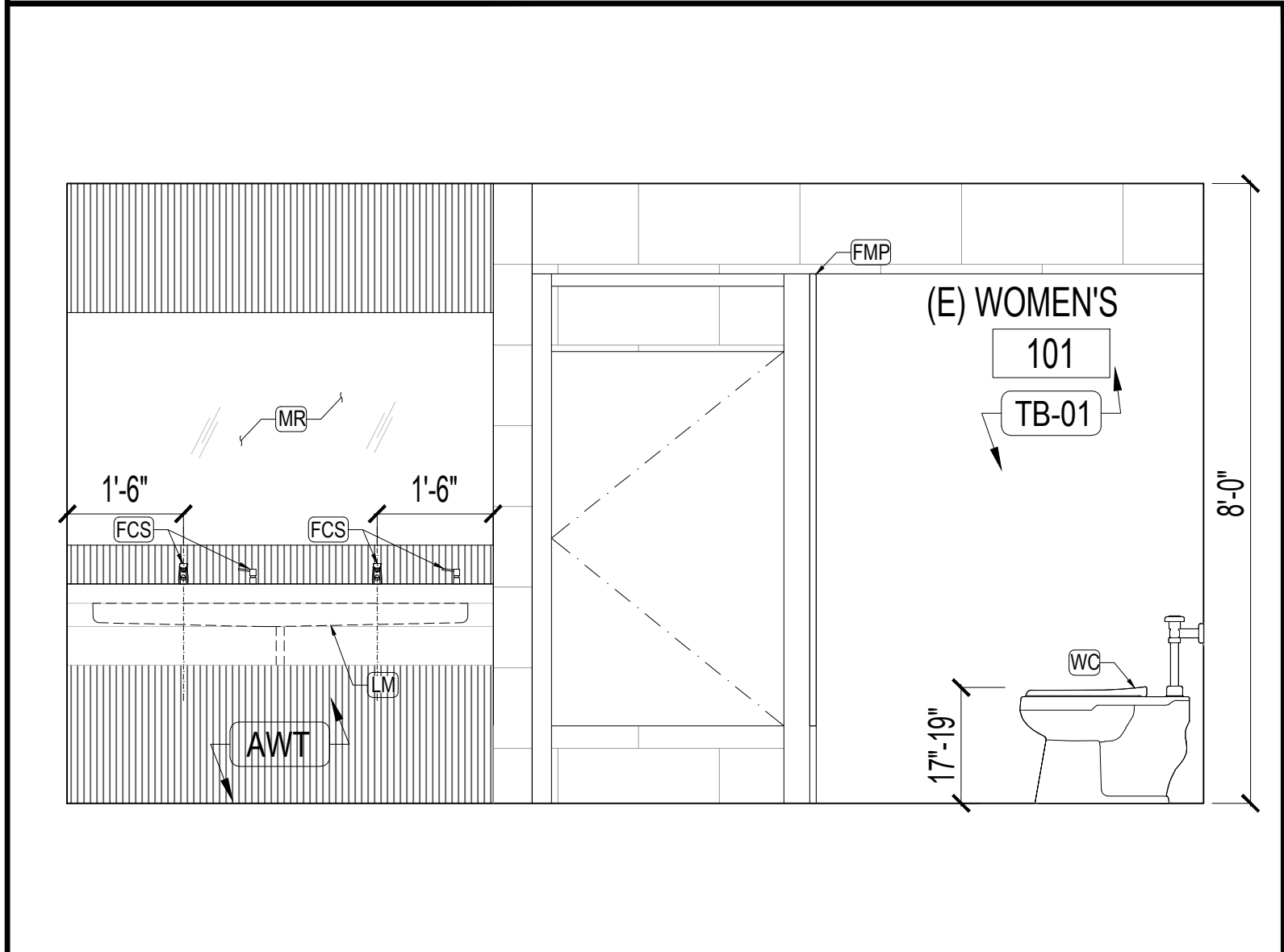
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INTERIOR ELEVATION "B"

2

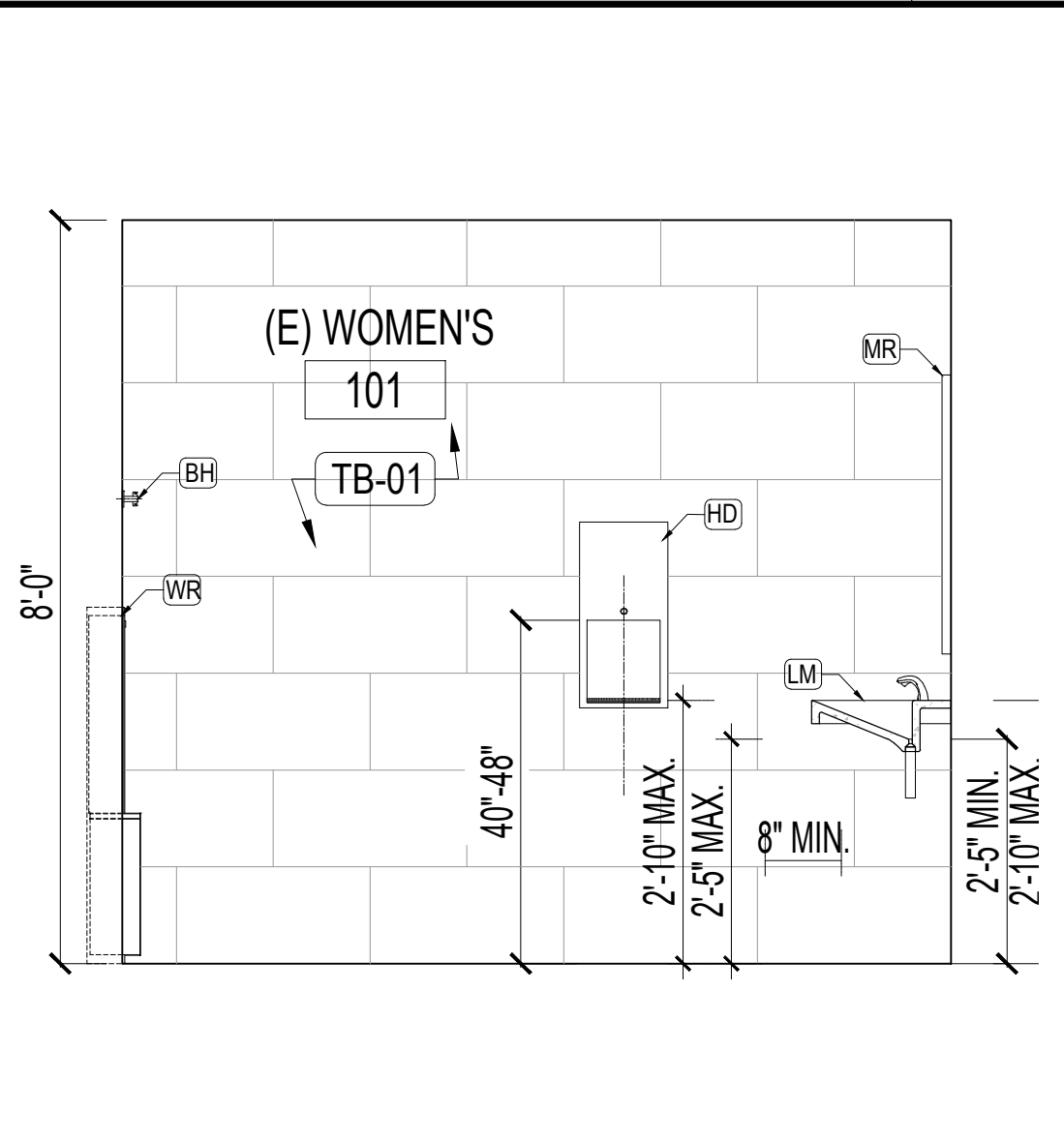
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INTERIOR ELEVATION "H"

8

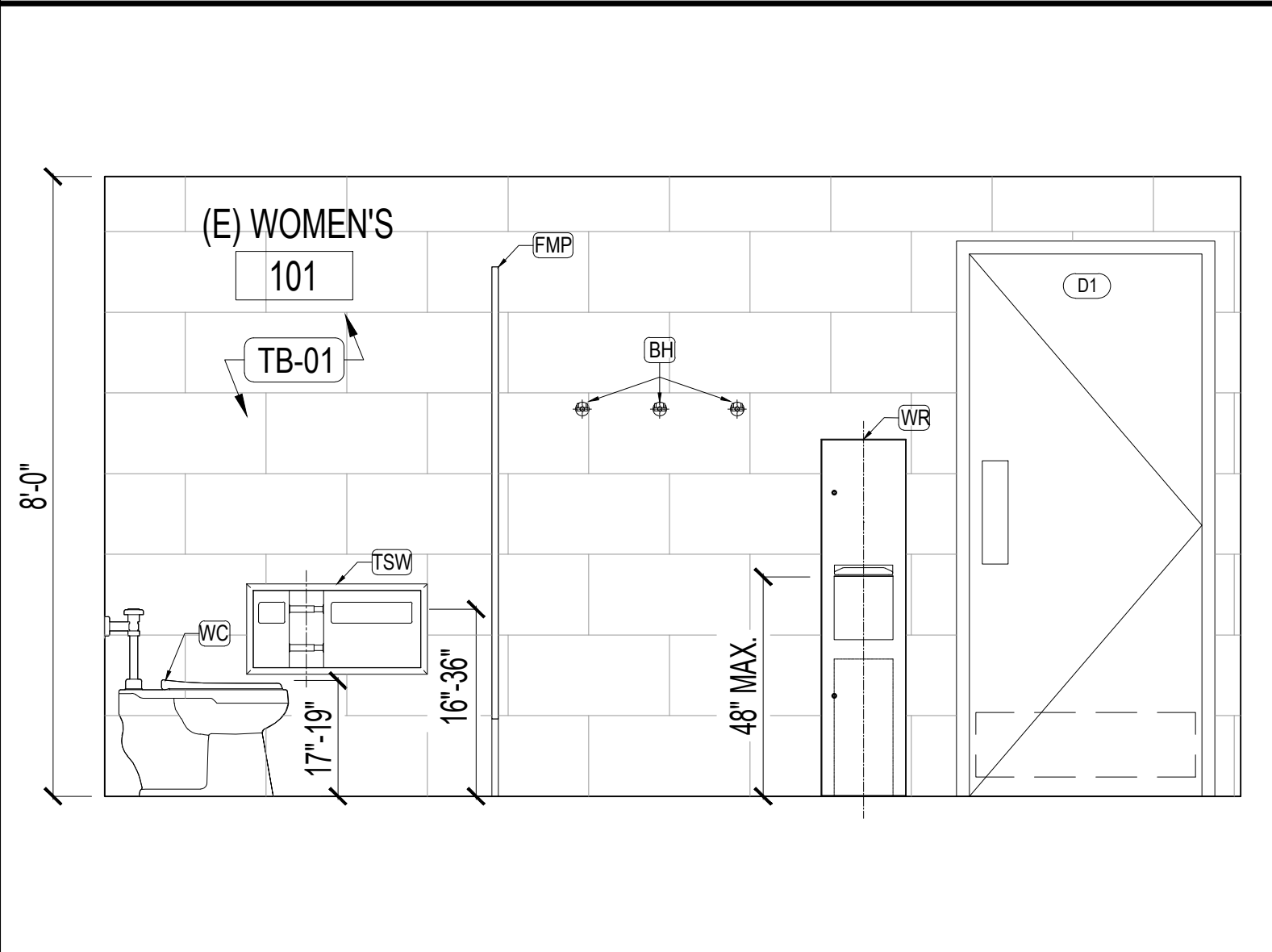
Scale: 1/2" = 1'-0"



INTERIOR ELEVATION "G"

7

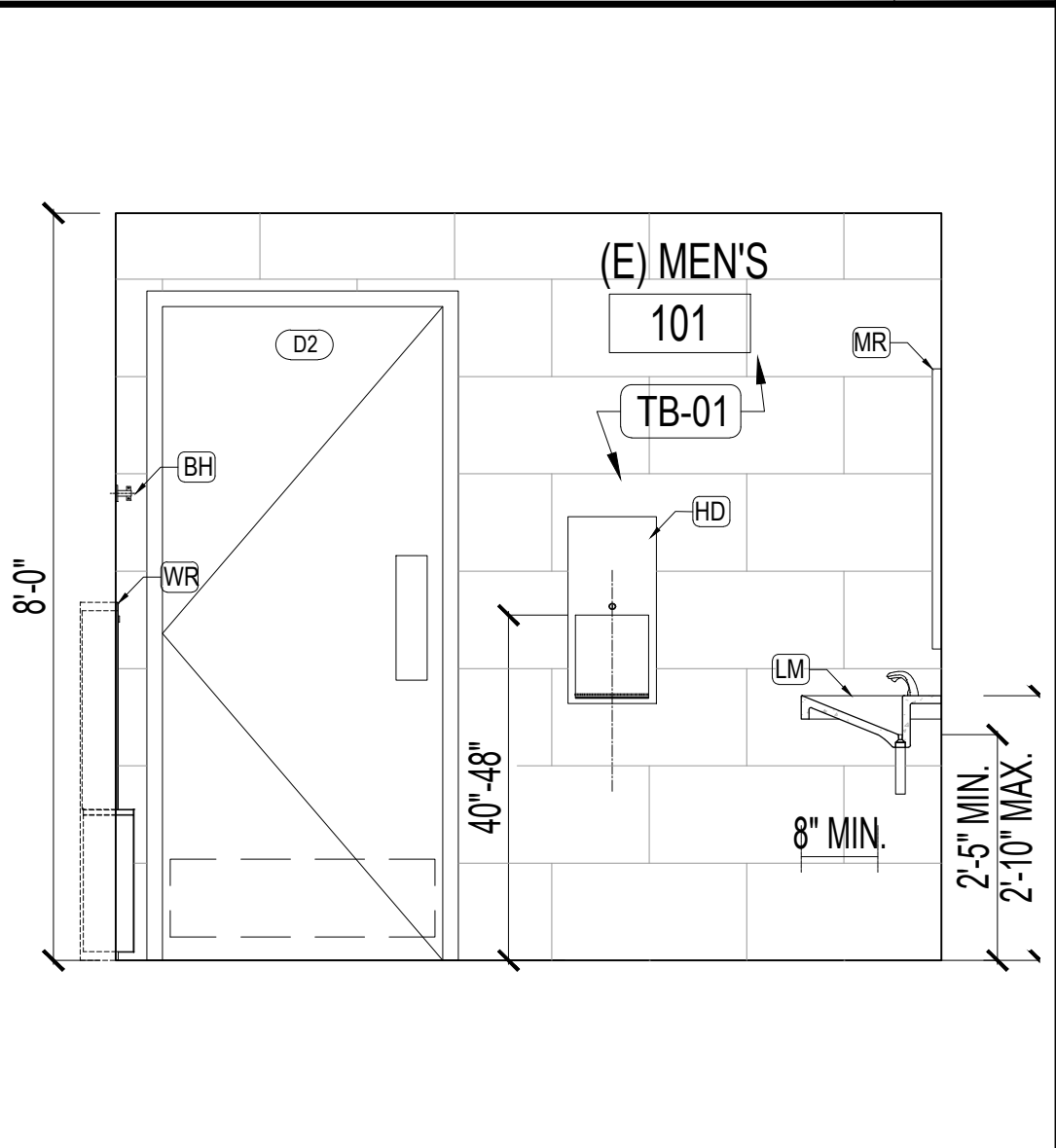
Scale: 1/2" = 1'-0"



INTERIOR ELEVATION "F"

6

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



INTERIOR ELEVATION "C"

3

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

EQUIPMENT AND FIXTURE LEGEND

- LM WALL-MOUNTED LAVATORY
- WC AUTOMATIC FLUSH WATER CLOSET
- UR UNIVERSAL URINAL
- WT WASTE CHUTE FOR COUNTERTOP
- HD HAND DRIER
- GB GRAB BAR
- DR FLOOR DRAIN
- WR WASTE RECEPTACLE and PAPER TOWEL DISPENSER
- BH BAG HOOK
- SN SANITARY NAPKIN RECEPTACLE
- TD TOILET TISSUE DISPENSER
- FCS COORDINATED FAUCET and SOAP DISPENSER
- TSW TISSUE/ SEAT COVER DISPENSER/ WASTE DISPOSAL
- FMP FLOOR MOUNTED PARTITION
- MR MIRROR

FOR EQUIPMENT AND FIXTURE SCHEDULE, SEE SHEET A4.0

CONSTRUCTION PLAN LEGEND

- (N) DOMINATE WALL TILE
- (N) ACCENT WALL TILE
- (D#) DOOR TYPE - SEE SHEET A5.0



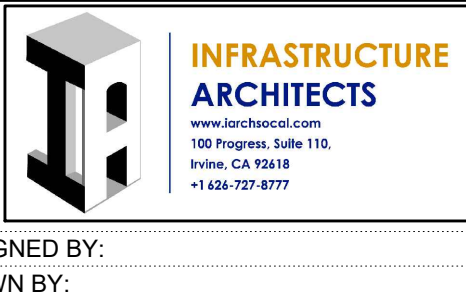
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4133.

REVISIONS			
NO.	DATE	BY	DESCRIPTION



UNDER THE SUPERVISION OF:



DESIGNED BY: IARCH
DRAWN BY: IARCH
CHECKED BY: IARCH DATE:

CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER REMODEL

115 S Taylor Ave, Montebello, CA 90640

INTERIOR RESTROOM ELEVATIONS – 1ST FLOOR

Sheet Number:

A2.1

P.N.: 2.1000.03

CAUTION: IF THIS SHEET IS NOT 24"x36" IT IS A REDUCED PRINT

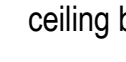


- DS DOUBLE COMPARTMENT SINK
- RF REFRIGERATOR
- MV BUILT-IN MICROWAVE
- KF KITCHEN FAUCET
- CT COUNTERTOP
- CB CABINET

FOR EQUIPMENT AND FIXTURE SCHEDULE, SEE SHEET A4.0

3

1



4

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2

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5

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N

APPROV

UNDER THE SUPERVISION OF

REGISTERED PROFESSIONAL ENGINEER
RAYMOND REZA ABASSI
No. 48091
Exp. 06/30/26
STATE OF CALIFORNIA



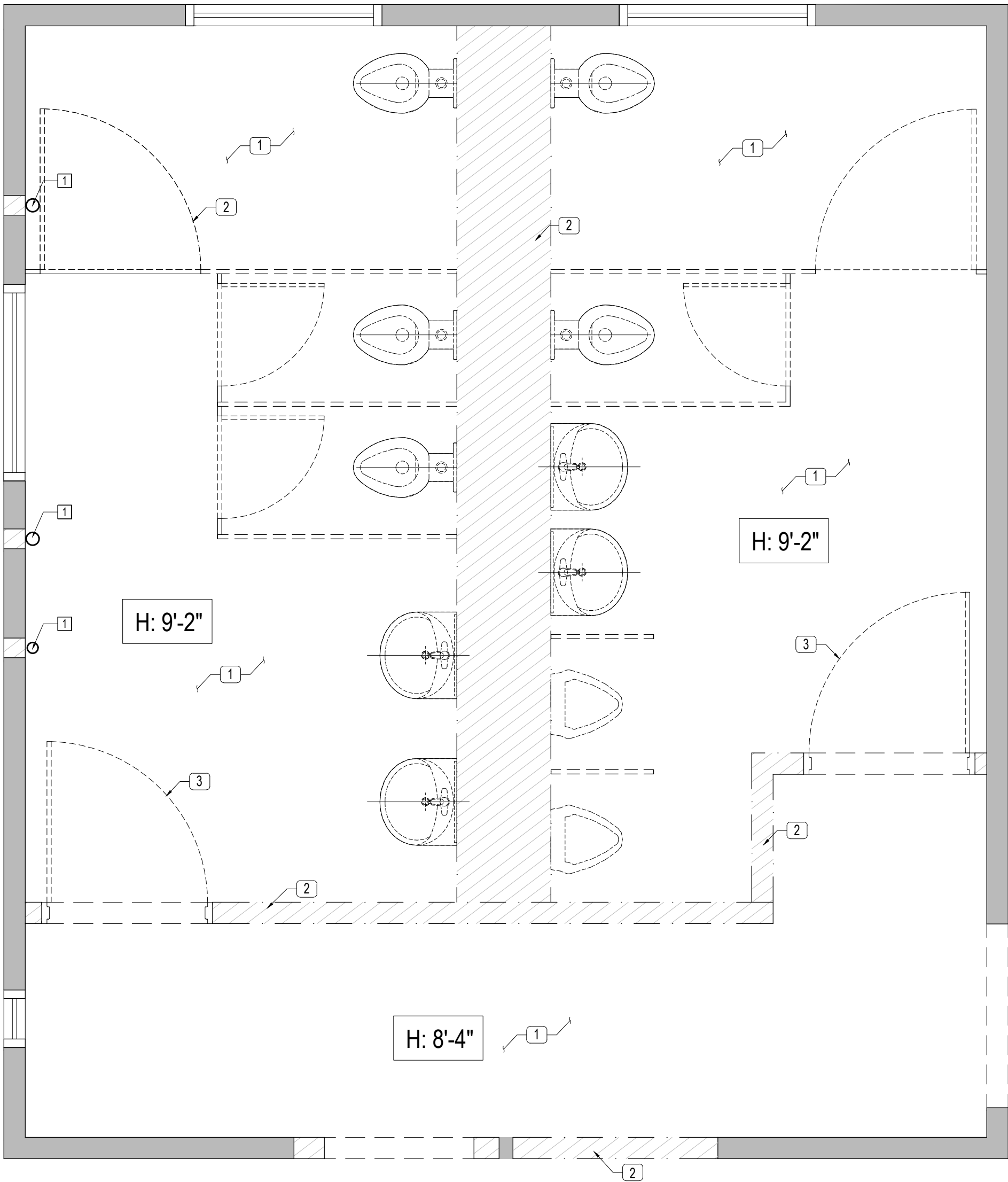
DESIGNED BY: IARCH
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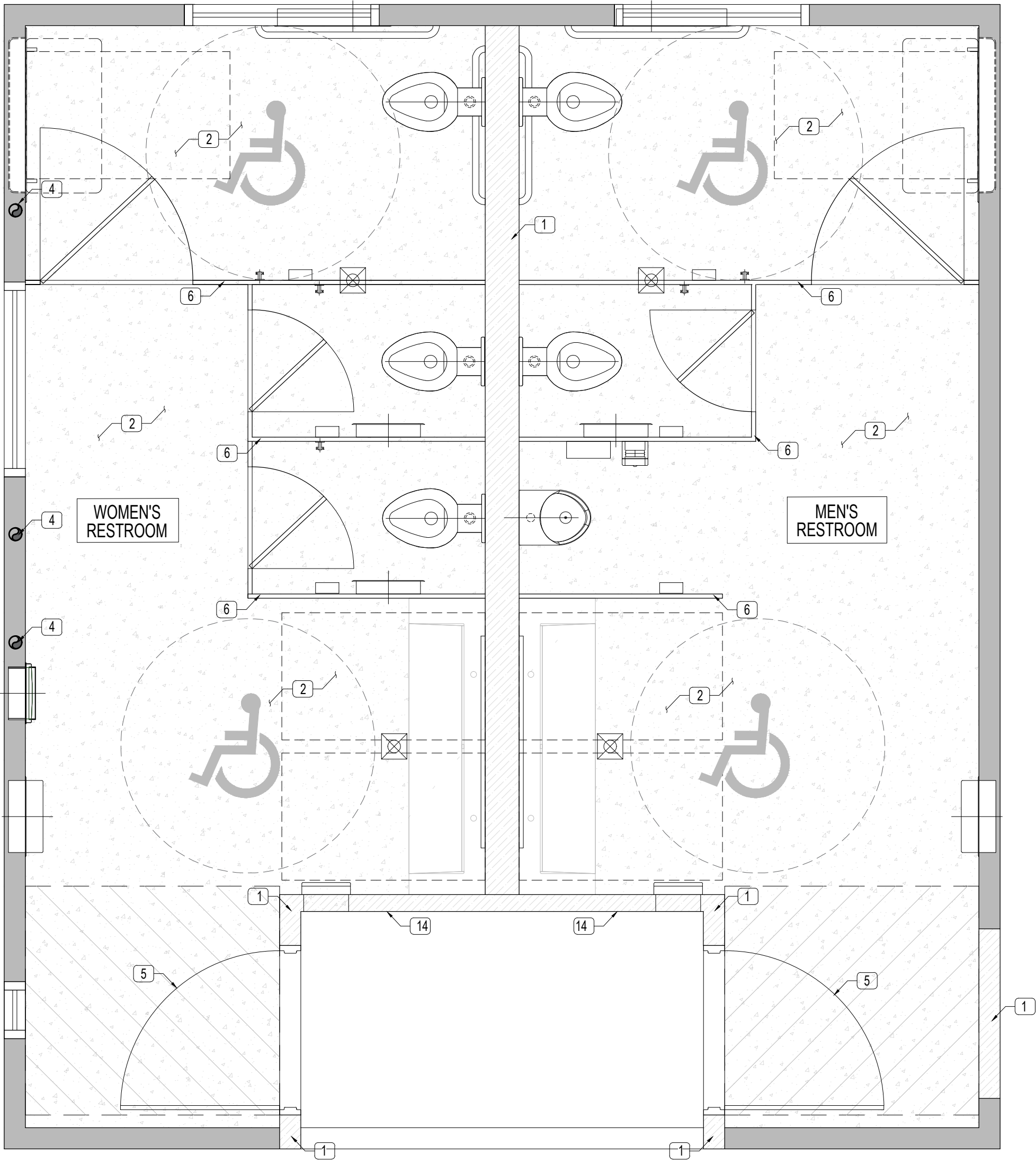
INTERIOR KITCHENETTE ELEVATIONS & DETAILS - 1ST FLOOR

A2.2

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4133.



DEMOLITION PLAN 2
Scale: 1/2" = 1'-0"



CONSTRUCTION PLAN 1
Scale: 1/2" = 1'-0"

DEMOLITION NOTES

1. DEMOLISH EXISTING FLOORING FINISH AND MORTAR BED DOWN TO THE CONCRETE SLAB. SAW CUT AND REMOVE PORTIONS OF THE EXISTING SLAB AS REQUIRED FOR INSTALLATION OF NEW FLOOR DRAINS.
2. DEMOLISH AND PROPERLY DISPOSE WET AND DRY WALLS AS INDICATED WITH DASHED LINES.
3. REMOVE ALL EXISTING REMAINING RESTROOM WALL AND FLOOR TILE THROUGHOUT THE RESTROOM.
4. REMOVE ALL EXISTING TOILET DOORS INDICATED WITH DASHED LINES.
5. REMOVE ALL EXISTING PARTITIONS, HARDWARE AND MISCELLANEOUS.
6. REMOVE ALL EXISTING PLUMBING FIXTURES AND MISCELLANEOUS PER PLUMBING DRAWINGS.
7. REMOVE ALL EXISTING LIGHTING FIXTURES, WRINGING AND MISCELLANEOUS PER ELECTRICAL PLANS.
8. REMOVE ALL EXISTING RESTROOM TACTILE SIGNS AND ACCESSORIES.
9. REMOVE ALL EXISTING CEILING GYPSUM BOARD, PREPARE THE STRUCTURE TO RECEIVE NEW CEILING SYSTEM PER CONSTRUCTION RCP PLAN.
10. REMOVE ALL EXISTING HVAC REGISTERS, DIFFUSERS, AND DUCTWORK TO ACCOMMODATE NEW HVAC SYSTEM INSTALLATION.
11. REMOVE ALL EXISTING EXHAUST FANS AND ASSOCIATED COMPONENTS TO RECEIVE NEW.
12. DEMOLISH EXISTING SUPPLY AIR DIFFUSER. CONTRACTOR SHALL REPLACE ANY EXISTING FLEX DUCT UNSUITABLE FOR REUSE AND NOTIFY ENGINEER OF ANY INTENT.
13. DEMOLISH EXISTING CEILING EXHAUST FAN. CONTRACTOR SHALL REPLACE ANY EXISTING FLEX DUCT UNSUITABLE FOR REUSE AND NOTIFY ENGINEER OF ANY INTENT.

CONSTRUCTION NOTES

1. CONSTRUCT NEW INTERIOR WALLS AS INDICATED WITH HATCH LINES. PER CONSTRUCTION AND STRUCTURAL PLANS. ENSURE ALL WORK MEETS DESIGN SPECIFICATIONS AND CODE REQUIREMENTS.
2. FURNISH AND INSTALL ALL NEW FLOORING FINISHES PER FINISH SCHEDULE.
3. FURNISH AND INSTALL WALL TILES THROUGHOUT BOTH RESTROOMS PER INTERIOR WALL VIEWS & FINISH SCHEDULE.
4. RELOCATE AND CONCEAL DESIGNATED VENT PIPING WITHIN ADJACENT WALL PER PLUMBING PLANS.
5. FURNISH AND INSTALL ALL NEW DOORS PER DOOR SCHEDULE AND MANUFACTURE SPECIFICATIONS.
6. FURNISH AND INSTALL ALL NEW RESTROOM PARTITIONS, DOORS MISCELLANEOUS PER CONSTRUCTION PLANS AND MANUFACTURE SPECIFICATIONS.
7. FURNISH AND INSTALL WALL TILES THROUGHOUT BOTH RESTROOMS PER INTERIOR WALL VIEWS & FINISH SCHEDULE.
8. FURNISH AND INSTALL ALL NEW RESTROOM EQUIPMENT AND MISCELLANEOUS ITEMS PER CONSTRUCTION PLANS & EQUIPMENT SCHEDULE AND MANUFACTURE SPECIFICATION.
9. FURNISH AND INSTALL ALL PIPING AND PLUMBING SYSTEM PER PLUMBING PLANS.
10. FURNISH AND INSTALL ALL WIRING AND ELECTRICAL SYSTEM PER ELECTRICAL PLANS.
11. FURNISH AND INSTALL ALL DUCTS AND MECHANICAL SYSTEM PER RCP NOTES (ITEMS #4-6).
12. FURNISH AND INSTALL ALL PLUMBING FIXTURE AND MISCELLANEOUS PER FIXTURE SCHEDULE.
13. FURNISH AND INSTALL ALL ELECTRICAL FIXTURES, LIGHTING AND MISCELLANEOUS PER RCP AND ELECTRICAL PLANS.
14. FURNISH AND INSTALL INTERNATIONAL TACTILE RESTROOM SIGNS.
15. PATCH AND REPAIR CEILING SUBSTRATE PREPARE TO RECEIVE NEW CEILING. FURNISH AND INSTALL NEW GYPSUM BOARD CEILING PER RCP PLAN AND STANDARD BUILDING CODE.

PLAN KEY NOTES

- 1 (E) VENT PIPE - TO BE CONCEALED WITHIN ADJACENT EXISTING WALL; SEE PLUMBING PLANS. LANS

CONSTRUCTION PLAN LEGEND

- (E) WALLS - TO REMAIN
- (N) WALLS - TO CONSTRUCT
- (E) WINDOWS - TO REMAIN
- (N) CONCRETE FLOORING - TO INSTALL
- (N) DOOR SCHEDULE - SEE SHEET A5.0
- 30"x48" ACCESSIBLE CLEARANCE
- 60" TURNING ACCESSIBLE CLEARANCE
- ACCESSIBLE CLEARANCE
- (N) FLOOR DRAIN TO INSTALL
- (N) BAG HOOK TO INSTALL

DEMOLITION PLAN LEGEND

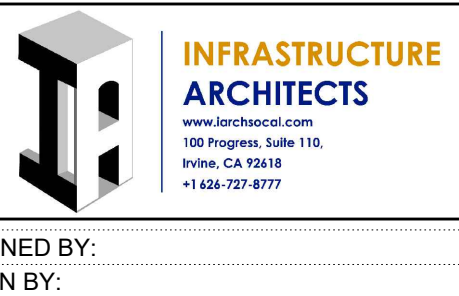
- (E) WALLS TO REMAIN
- (E) WALLS TO DEMOLISH
- (E) DOOR TO REMOVE
- (E) ITEMS TO DEMOLISH
- (E) WINDOWS TO REMAIN



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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REVISIONS				APPROV.
NO.	DATE	BY	DESCRIPTION	



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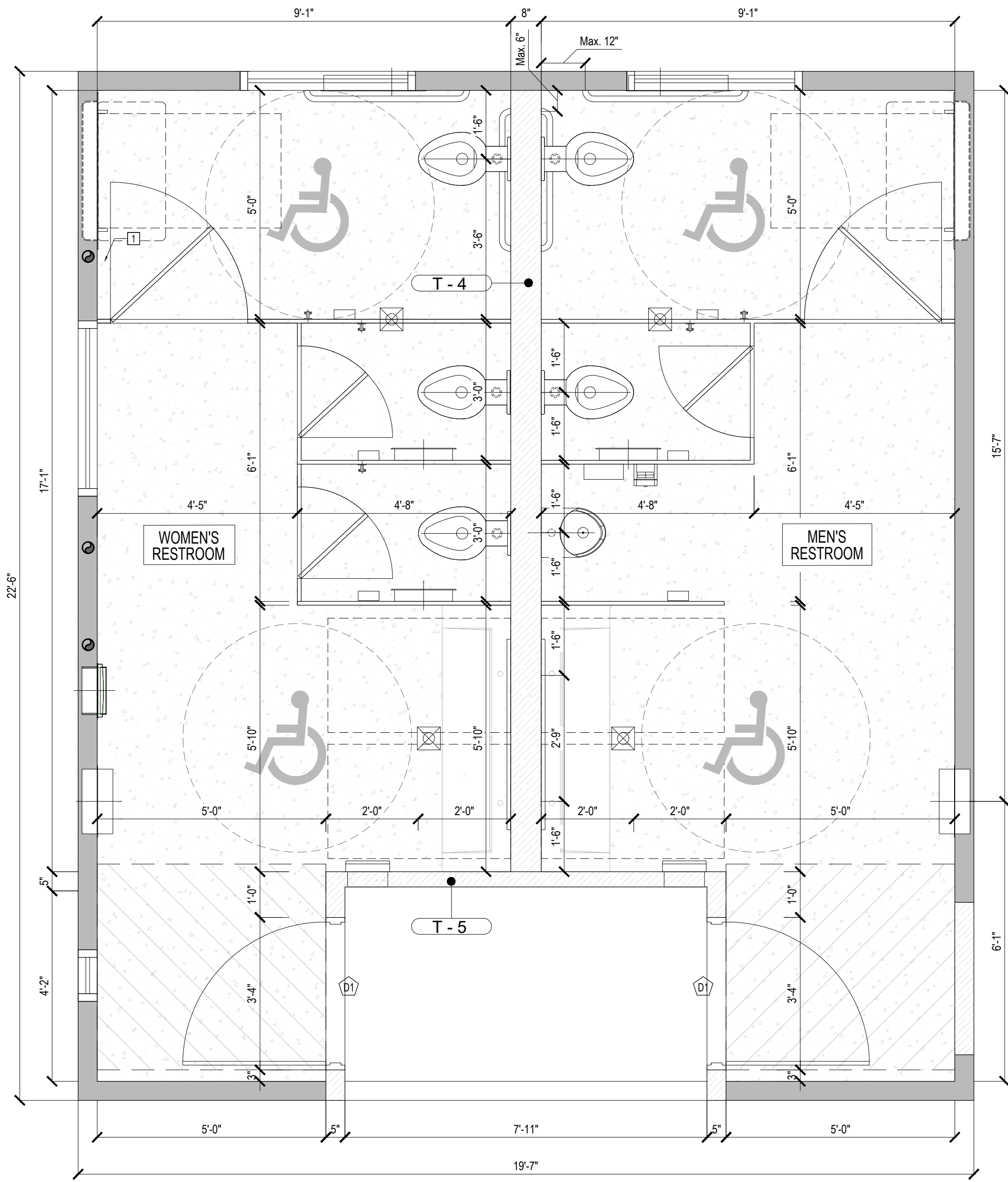
CITY OF MONTEBELLO

Department of Public Works

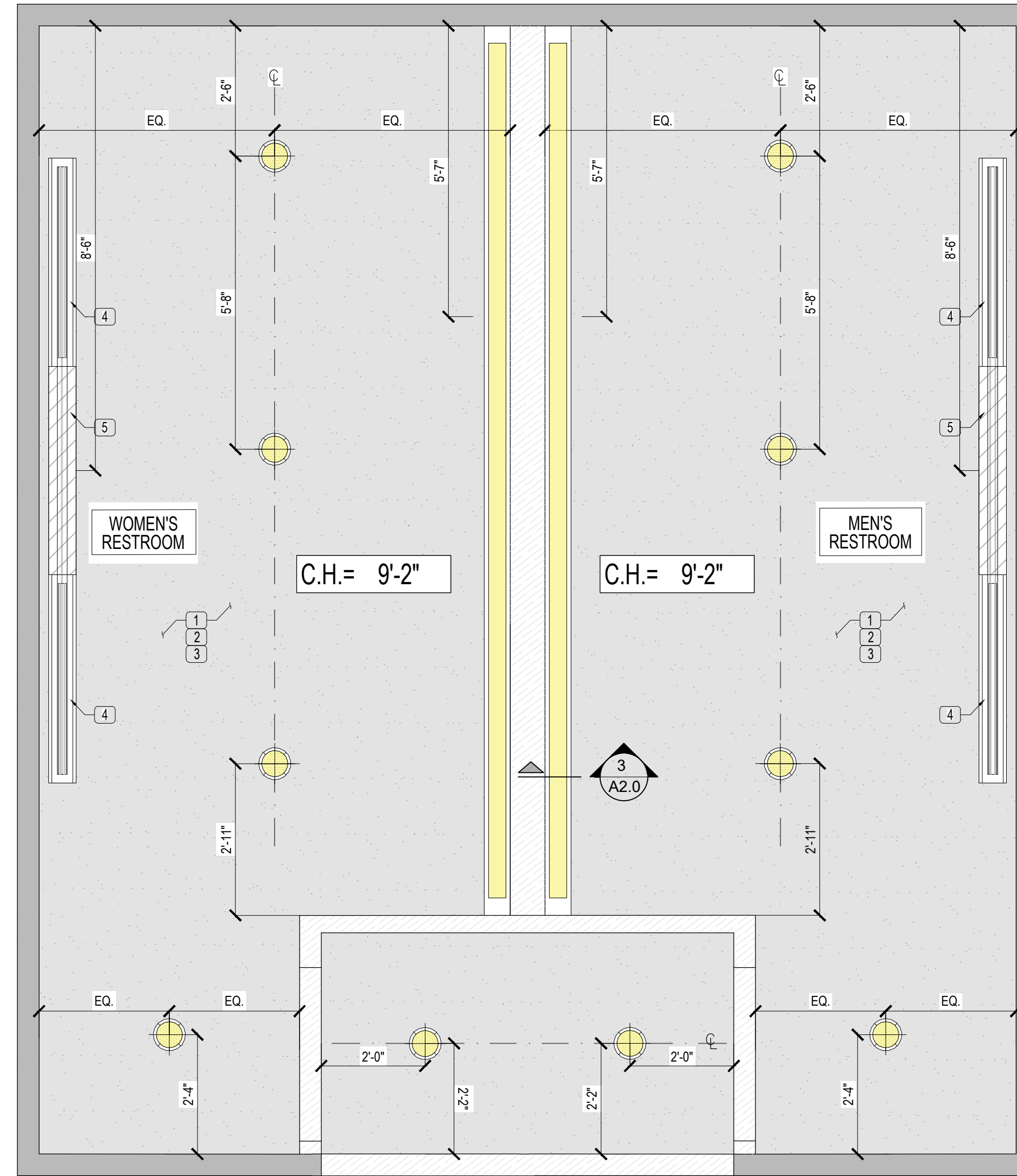
SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
DEMOLITION & CONSTRUCTION PLANS - 2ND
FLOOR RESTROOMS

Sheet Number:

A3.0



DIMENSION PLAN 2
Scale: 1/2" = 1'-0"



REFLECTED CEILING PLAN 1
Scale: 1/2" = 1'-0"

REFLECTED CEILING PLAN NOTES

1. PATCH AND REPAIR ALL CEILING SUBSTRATE AS NEEDED THROUGHOUT ALL CEILING. PREPARE TO RECEIVE A NEW GYPSUM BOARD.
2. FURNISH AND INSTALL ALL GYPSUM BOARD PER CONSTRUCTION PLAN, ENSURE ALL CEILING HEIGHTS, MATERIALS, AND FINISHES ARE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
3. FURNISH AND INSTALL ALL LIGHTING FIXTURES, HVAC DIFFUSERS AND OTHER CEILING ELEMENTS, PER ELECTRICAL AND MECHANICAL DRAWINGS. ENSURE ALL ELECTRICAL WORK COMPLIES WITH LOCAL CODES AND SAFETY REGULATIONS.
4. INSTALL NEW SUPPLY LINEAR DIFFUSER MODEL AND CONNECT THE DIFFUSER TO THE EXISTING SUPPLY DUCT.
5. INSTALL LINEAR DIFFUSER BLANK OFF.
6. INSTALL CEILING EXHAUST FAN AT THE SAME LOCATION AS EXISTING. MINIMUM, 200 CFM.

PLAN KEY NOTES

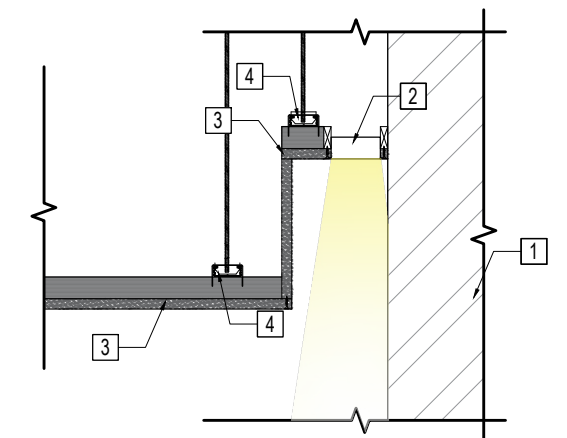
- | | |
|---|----------------------------------|
| 1 | (N) 6" WET WALL |
| 2 | (N) LED LINEAR RECESSED LIGHTING |
| 3 | (N) GYPSUM BOARD |
| 4 | (N) CEILING STRUCTURE |

DIMENTION PLAN LEGEND

- | | |
|--|------------------------------------|
| | (E) WALLS - TO REMAIN |
| | (N) WALLS - TO CONSTRUCT |
| | (E) WINDOWS - TO REMAIN |
| | (N) CONCRETE FLOORING - TO INSTALL |
| | (N) DOOR SCHEDULE - SEE SHEET A5.0 |
| | 30"x48" ACCESSIBLE CLEARANCE |
| | 60" TURNING ACCESSIBLE CLEARANCE |
| | ACCESSIBLE CLEARANCE |
| | (N) FLOOR DRAIN TO INSTALL |
| | (N) BAG HOOK TO INSTALL |
| | (N) WALL TYPE - SEE SHEET A5.0 |

RCP PLAN LEGEND

- | | |
|--|---|
| | (N) GYPSUM BOARD CEILING - TO INSTALL |
| | (N) LED LINEAR RECESSED LIGHTING - TO INSTALL |
| | (N) LINEAR SLOT AIR DIFFUSER - TO INSTALL |
| | (N) RECESSED LED LIGHTING - TO INSTALL |
| | C.H. = #'-#" |



CEILING DETAIL 3
Scale: 1" = 1'-0"

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UNDER THE SUPERVISION OF:

REGISTERED PROFESSIONAL ENGINEER

RAYMOND REZA ABASI

No. 48091

Exp. 06/30/26

STATE OF CALIFORNIA

DESIGNED BY: iARCH

DRAWN BY: iARCH

CHECKED BY: iARCH

DATE:

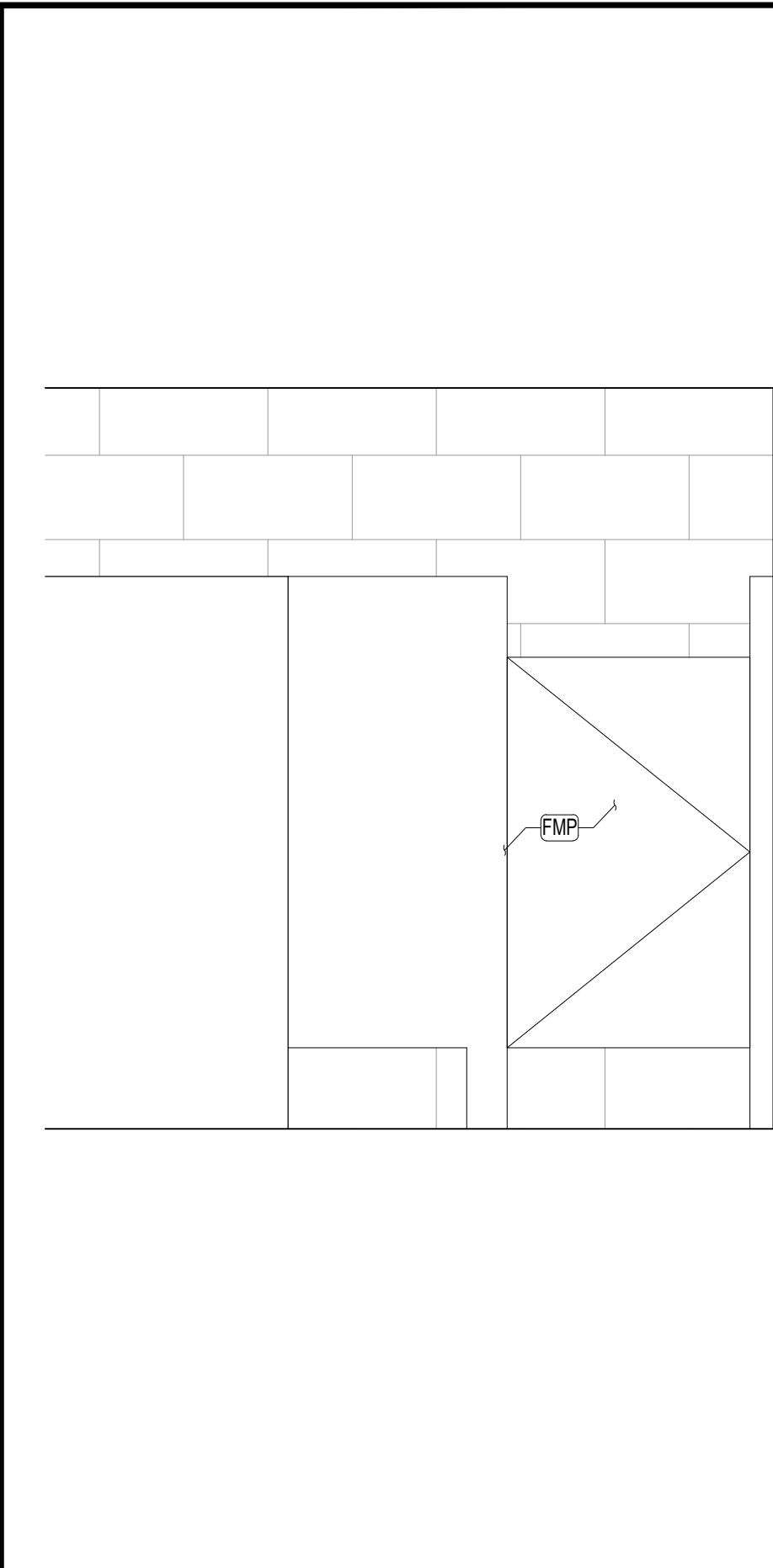
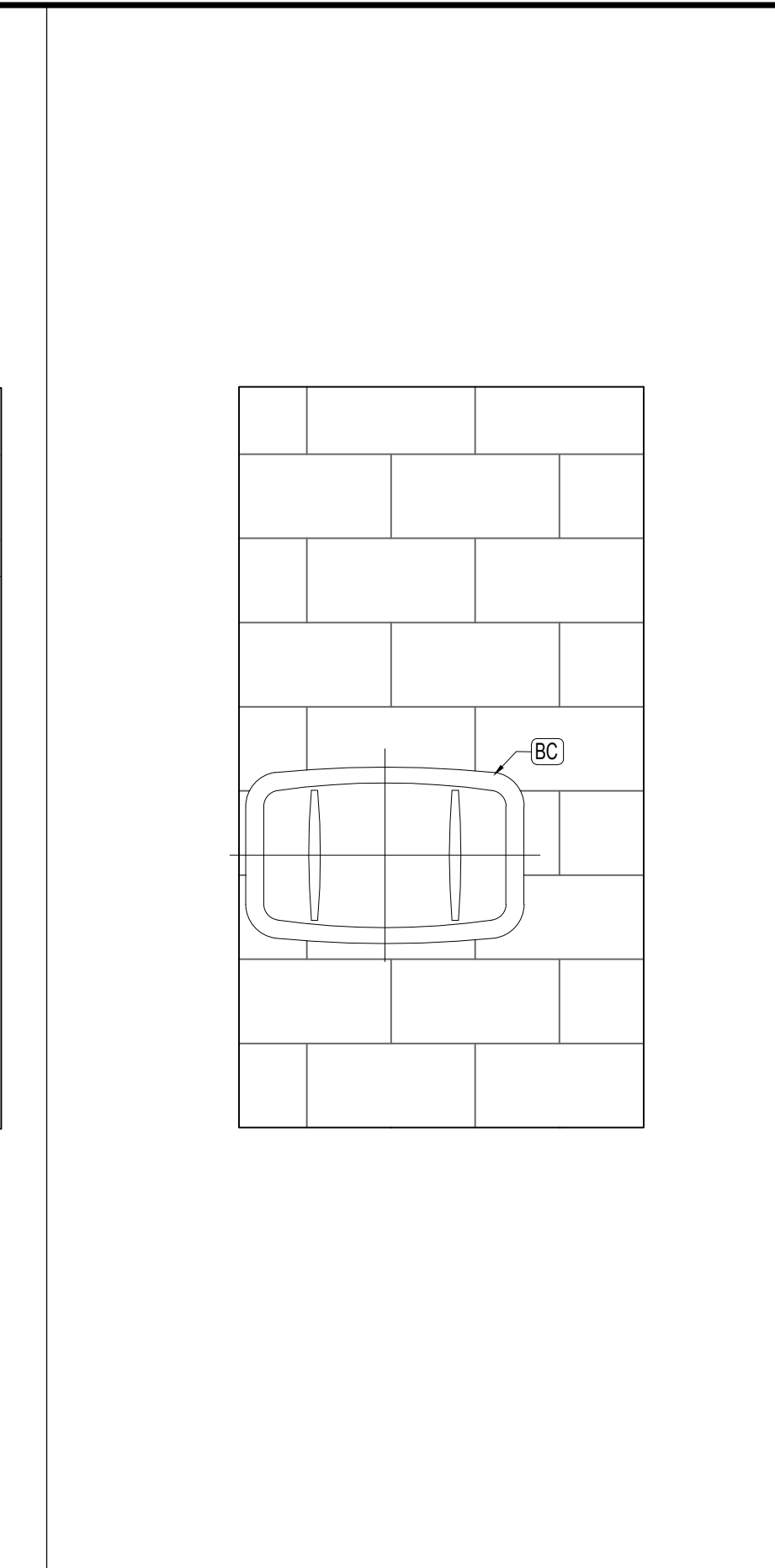
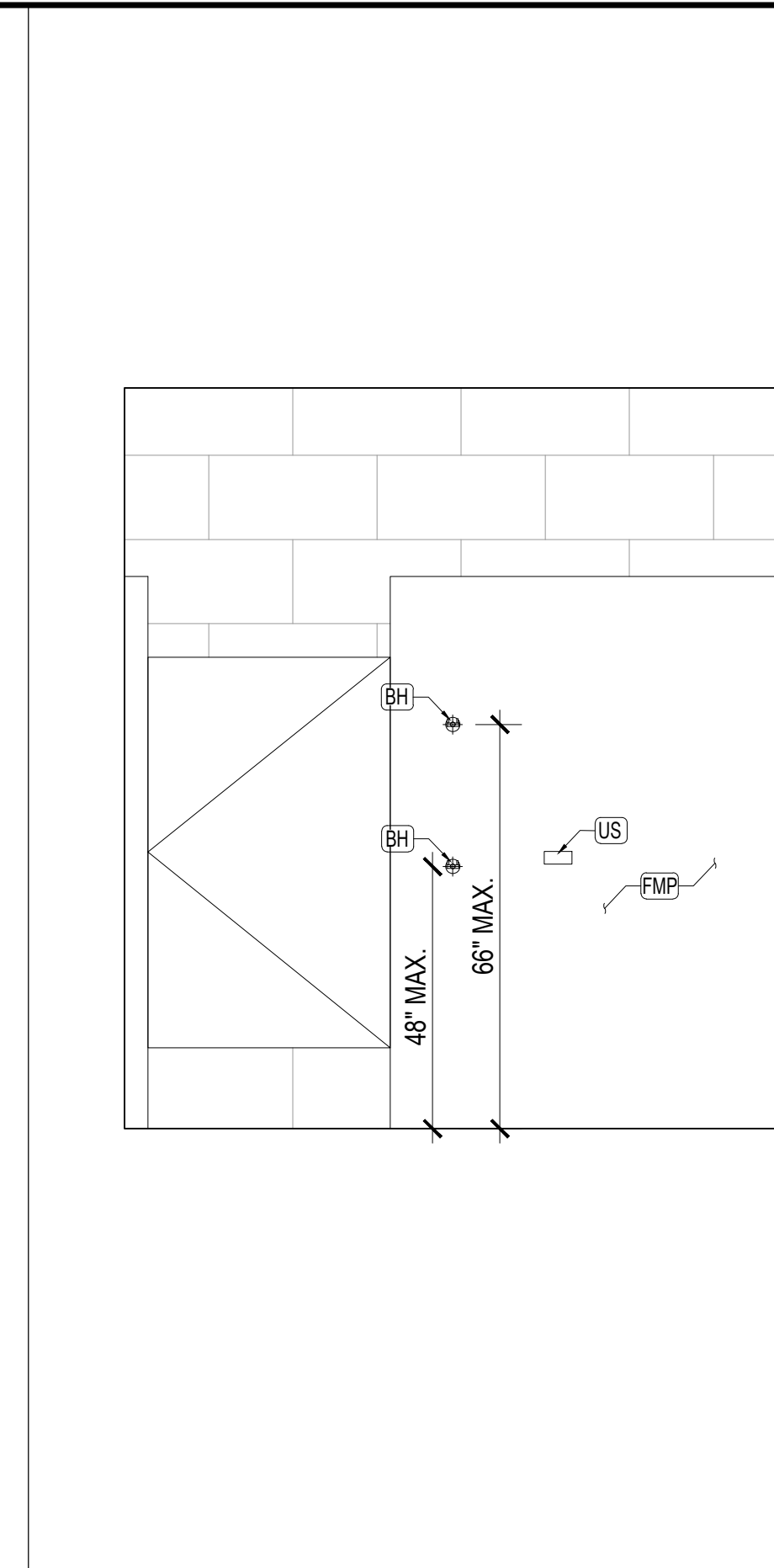
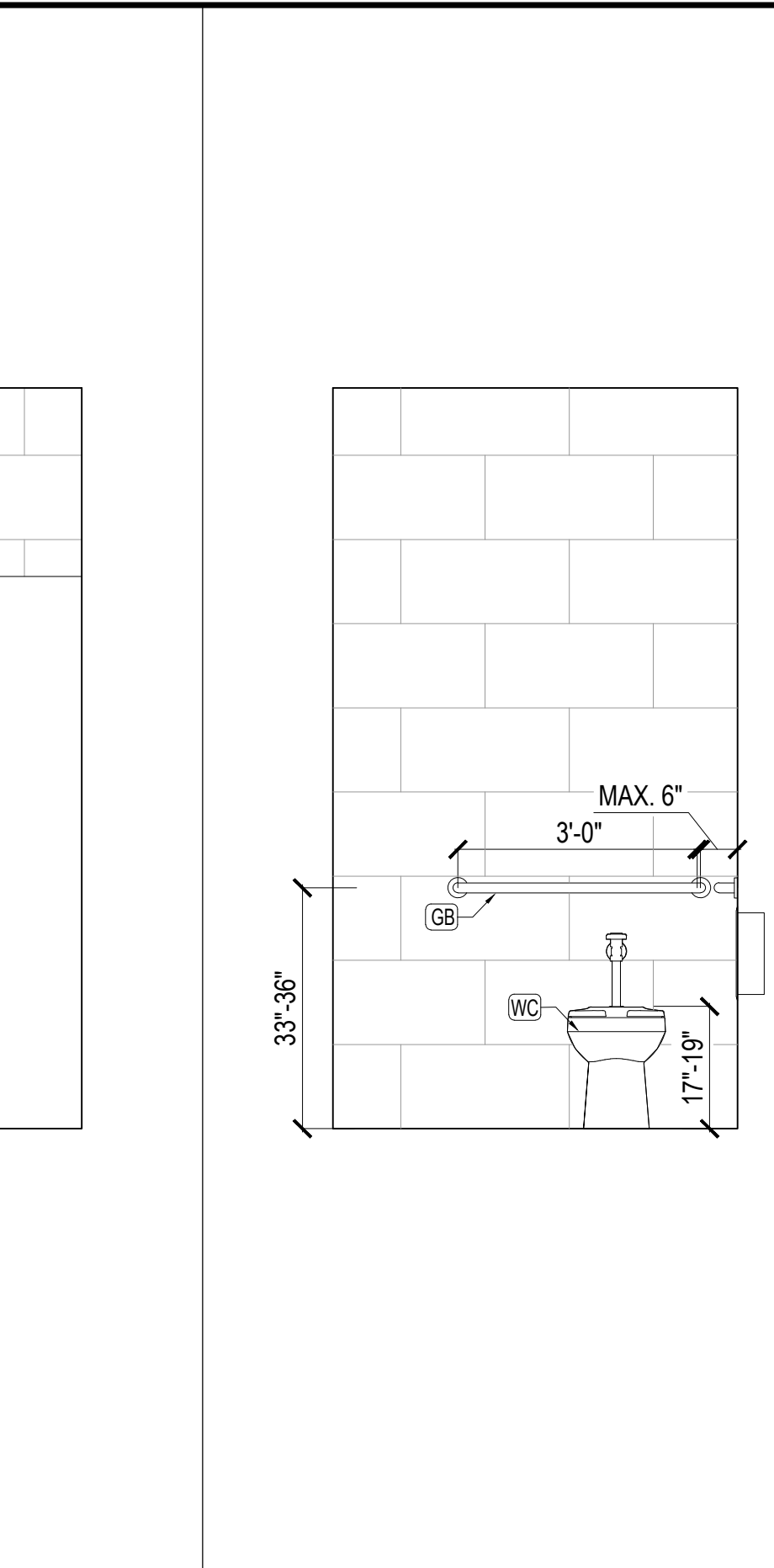
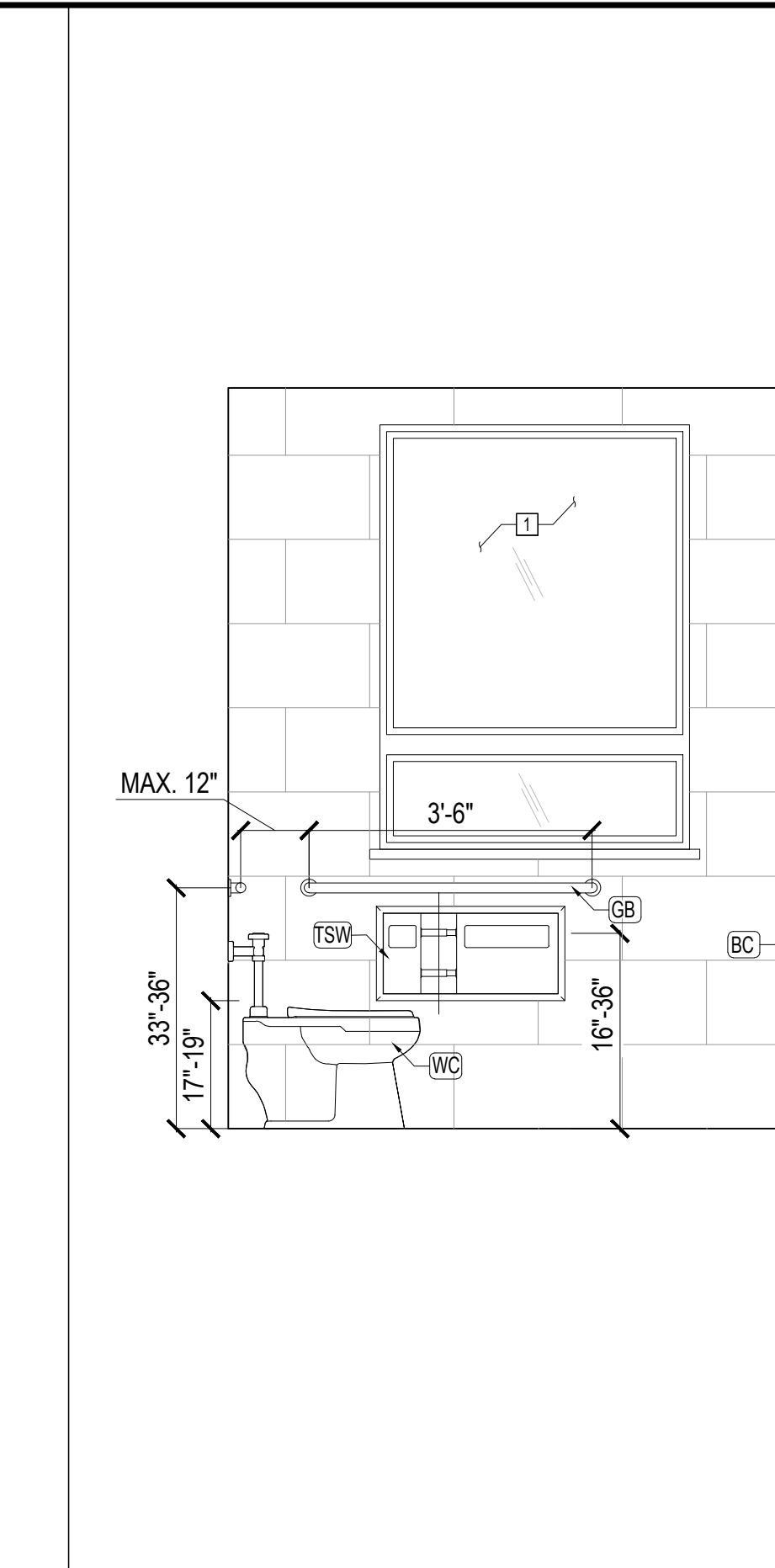
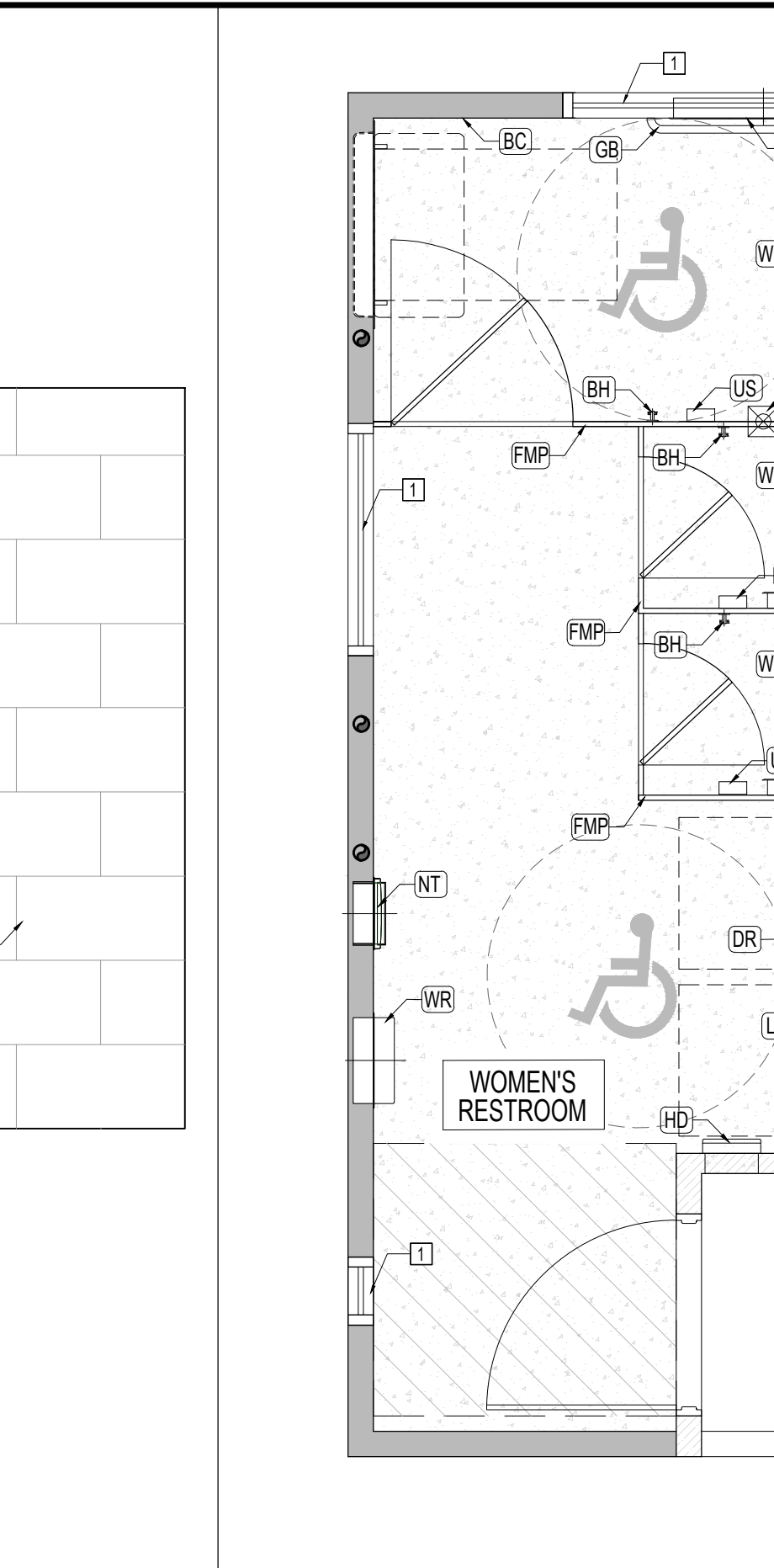
CITY OF MONTEBELLO

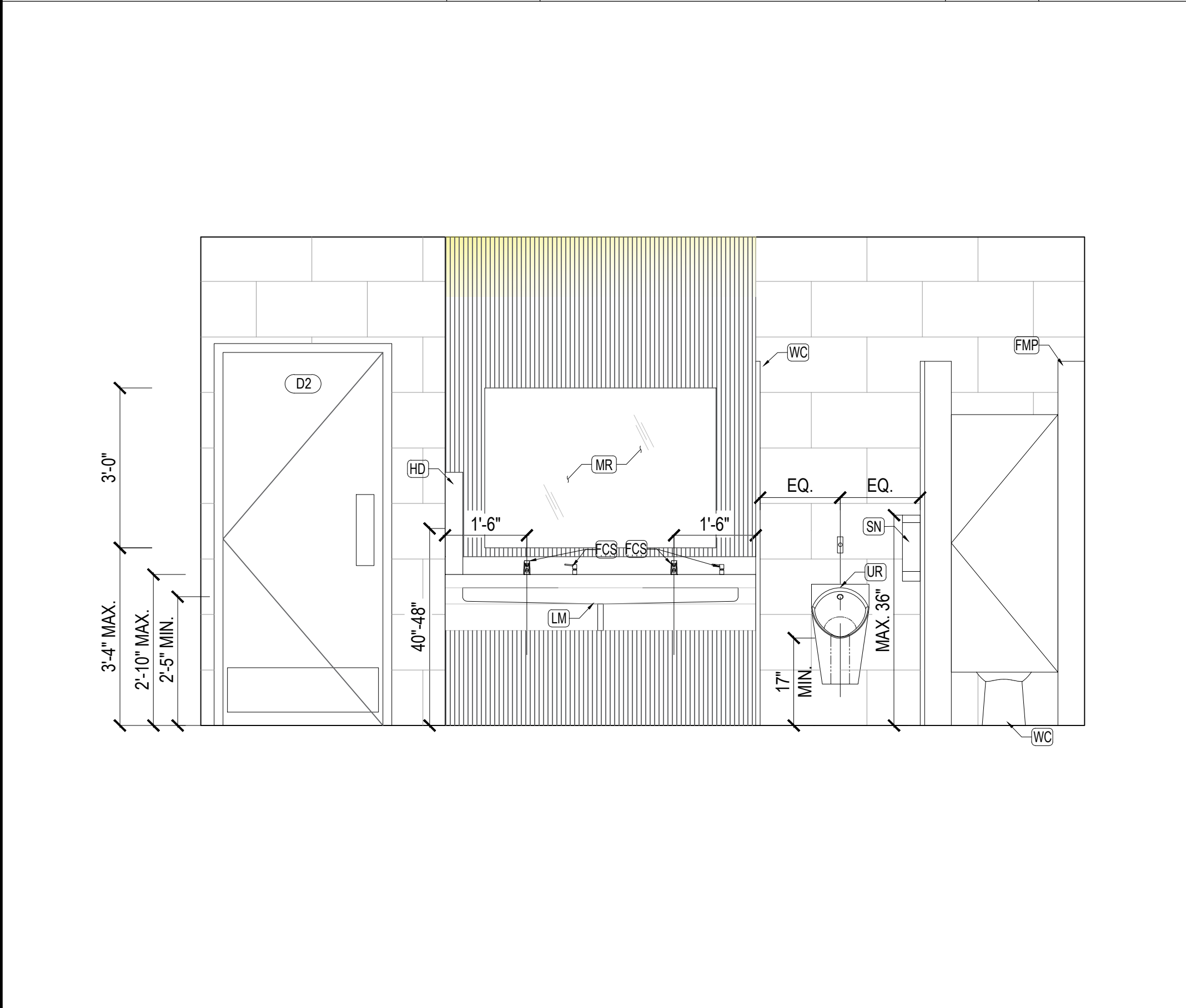
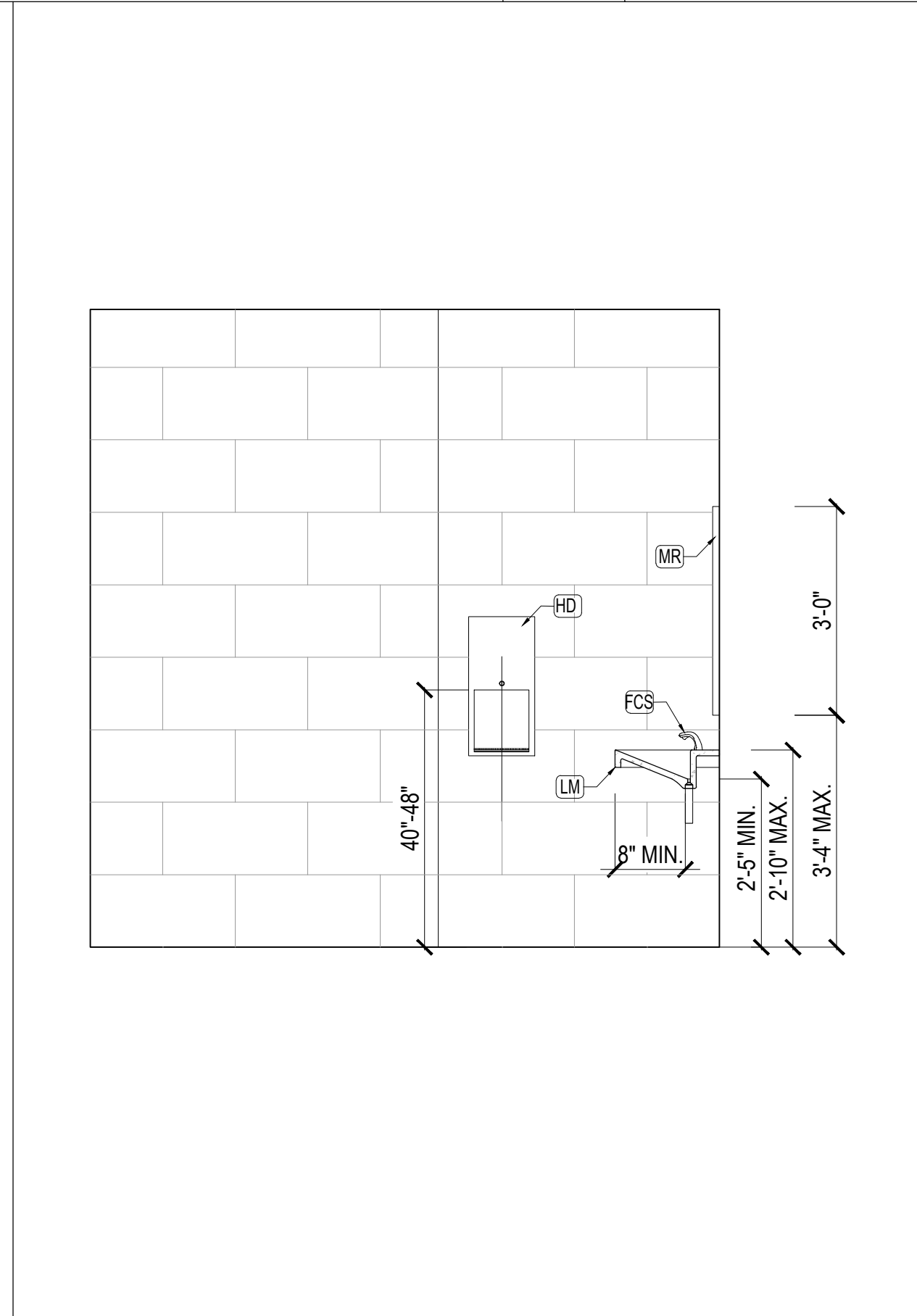
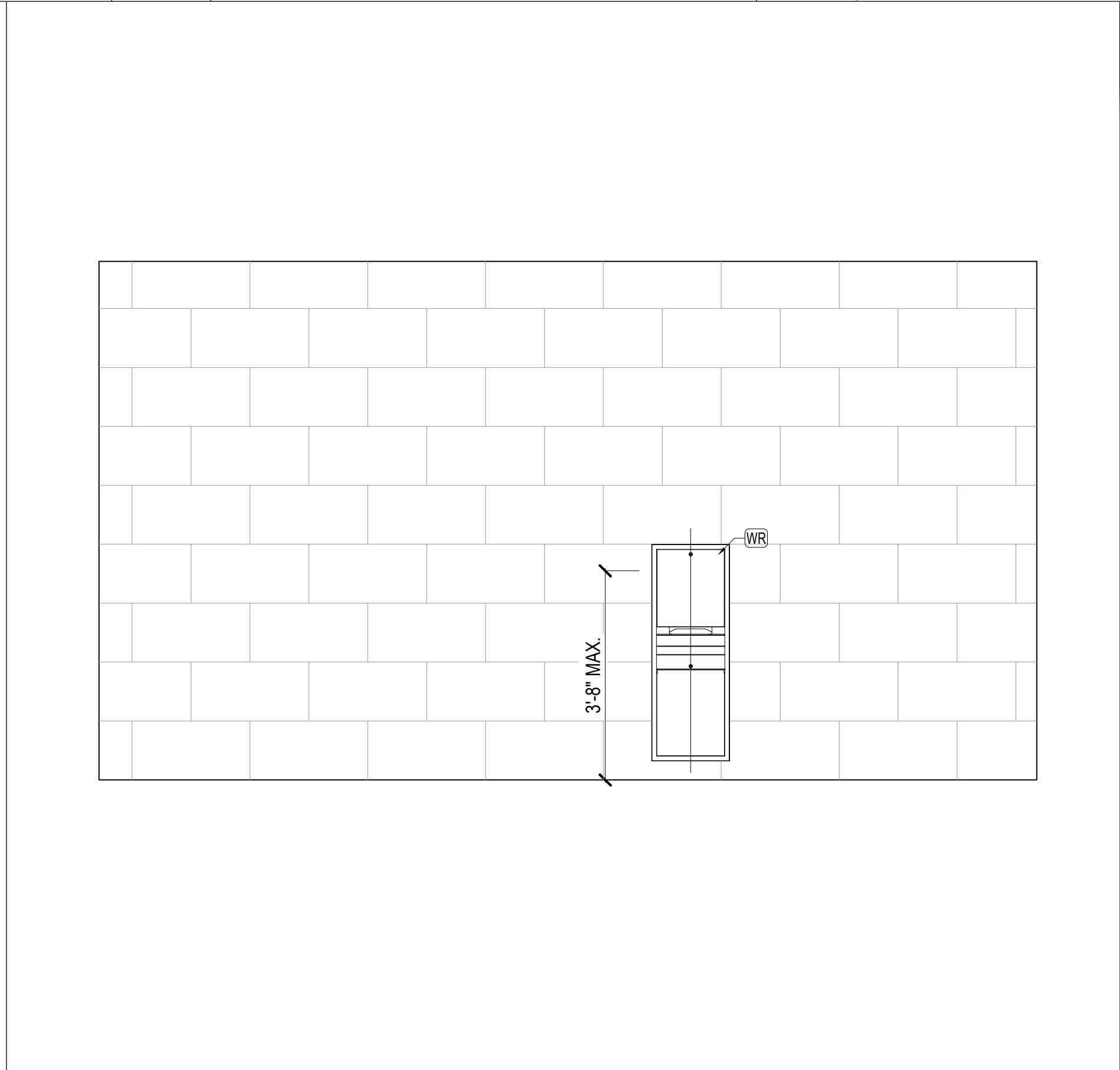
Department of Public Works

SENIOR CENTER REMODEL

115 S Taylor Ave, Montebello, CA 90640

DIMENSION & REFLECTED CEILING PLANS

					
WALL VIEW "E" 9	WALL VIEW "D" 8	WALL VIEW "C" 6	WALL VIEW "B" 4	WALL VIEW "A" 2	CONSTRUCTION PLAN @ MEN RESTROOM 1
Scale: 1/2" = 1'-0"	Scale: 1/2" = 1'-0"	Scale: 1/2" = 1'-0"	Scale: 1/2" = 1'-0"	Scale: 1/2" = 1'-0"	Scale: 1/2" = 1'-0"

		
WALL VIEW "H" 7	WALL VIEW "G" 5	WALL VIEW "F" 3
Scale: 1/2" = 1'-0"	Scale: 1/2" = 1'-0"	Scale: 1/2" = 1'-0"

EQUIPMENT AND FIXTURE LEGEND

- LM WALL-MOUNTED LAVATORY
- WC AUTOMATIC FLUSH WATER CLOSET
- UR UNIVERSAL URINAL
- WT WASTE CHUTE FOR COUNTERTOP
- HD HAND DRIER
- GB GRAB BAR
- DR FLOOR DRAIN
- WR WASTE RECEPTACLE & PAPER TOWEL DISPENSER
- BH BAG HOOK
- SN SANITARY NAPKIN RECEPTACLE
- TD TOILET TISSUE DISPENSER
- FCS COORDINATED FAUCET & SOAP DISPENSER
- TSW TISSUE/ SEAT COVER DISPENSER/ WASTE DISPOSAL
- FMP FLOOR MOUNTED PARTITION
- MR MIRROR
- BC BABY CHANGING STATION
- US FOLDING UTILITY SHELF
- NT RECESSED NAPKIN- TAMPON DISPENSER- FREE OPERATING

PLAN KEY NOTES

- (E) WINDOW - TO REMAIN

CONSTRUCTION PLAN LEGEND

- (N) CONCRETE FLOORING - TO INSTALL
- (N) DOMINATE WALL TILE
- (N) ACCENT WALL TILE
- (N) DOOR TYPE - SEE SHEET A5.0
- (N) FLOOR DRAIN - TO INSTALL
- (N) BAG HOOK - TO INSTALL



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DATE:

UNDER THE SUPERVISION OF:

REGISTERED PROFESSIONAL ENGINEER

RAMING REZA ABADI

No. 48091

Exp. 06/30/26

STATE OF CALIFORNIA

INFRASTRUCTURE ARCHITECTS

100 Progress, Suite 110

Irving, CA 92618

+1 650 751 8777

CITY OF MONTEBELLO

Department of Public Works

SENIOR CENTER REMODEL

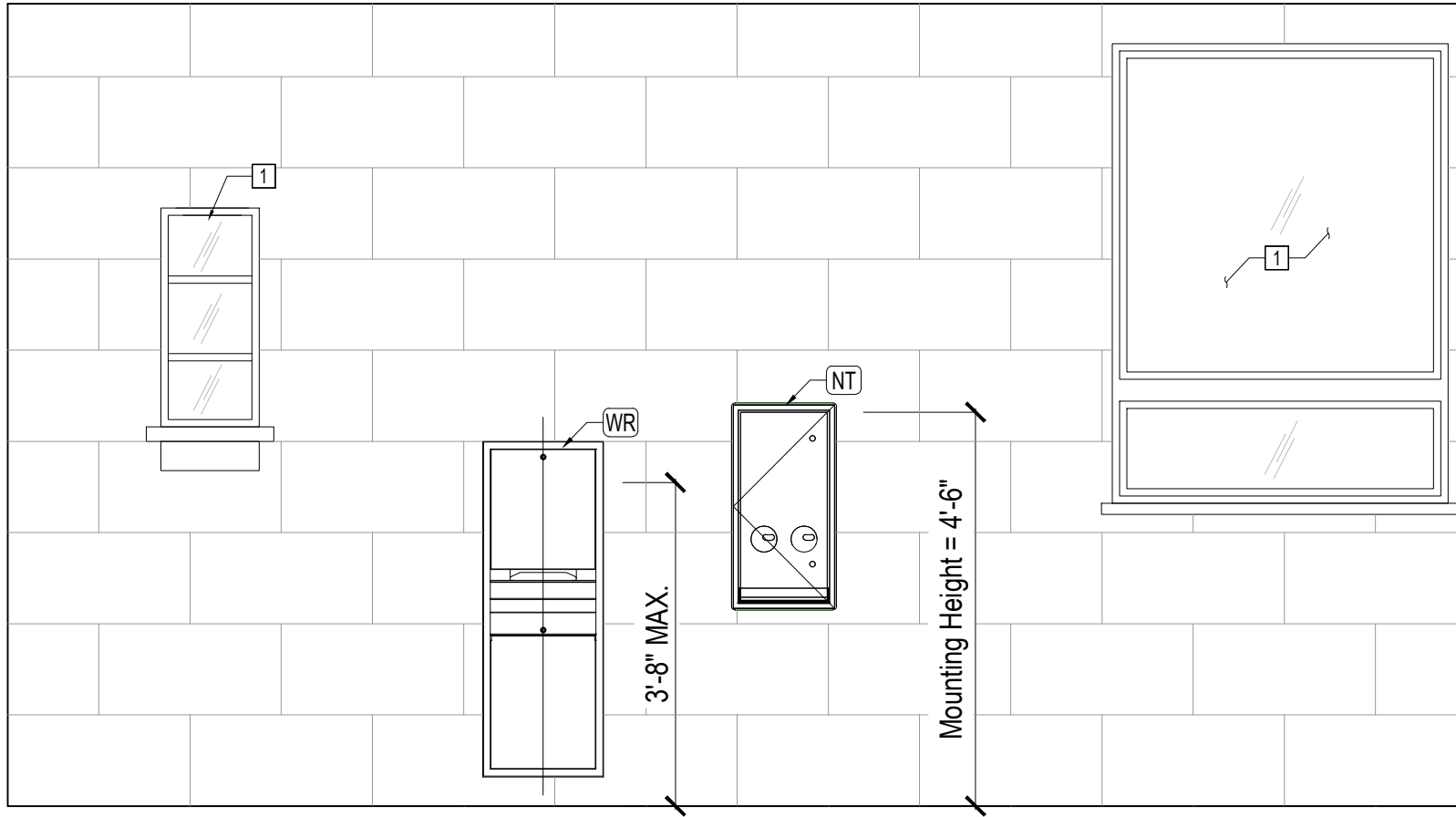
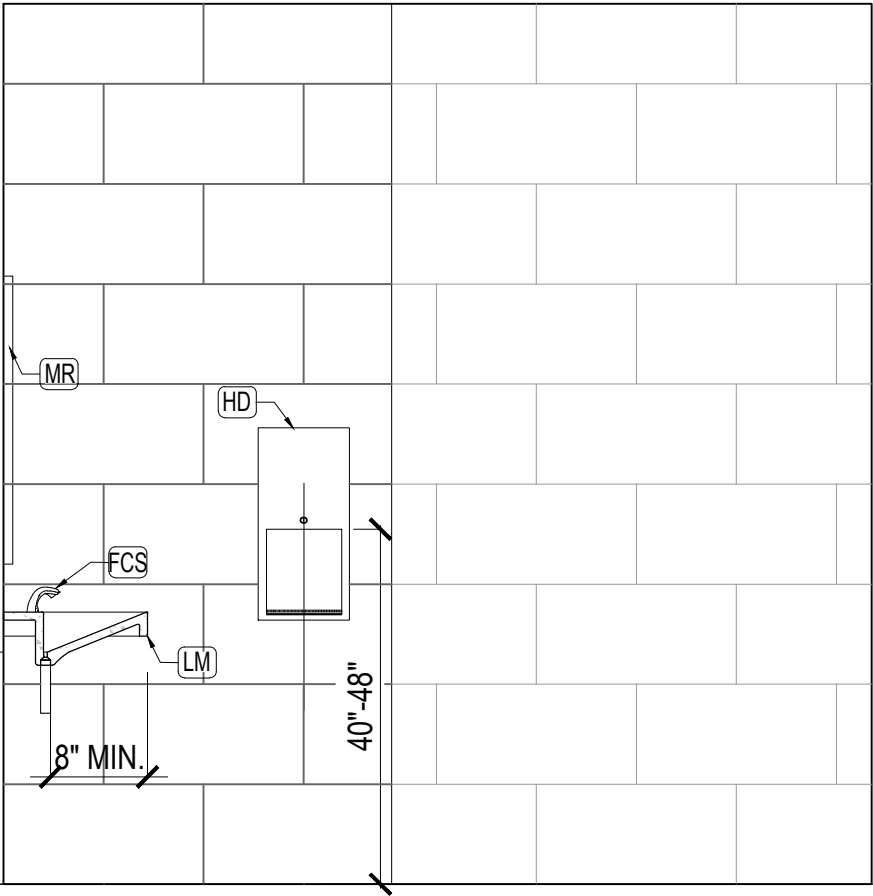
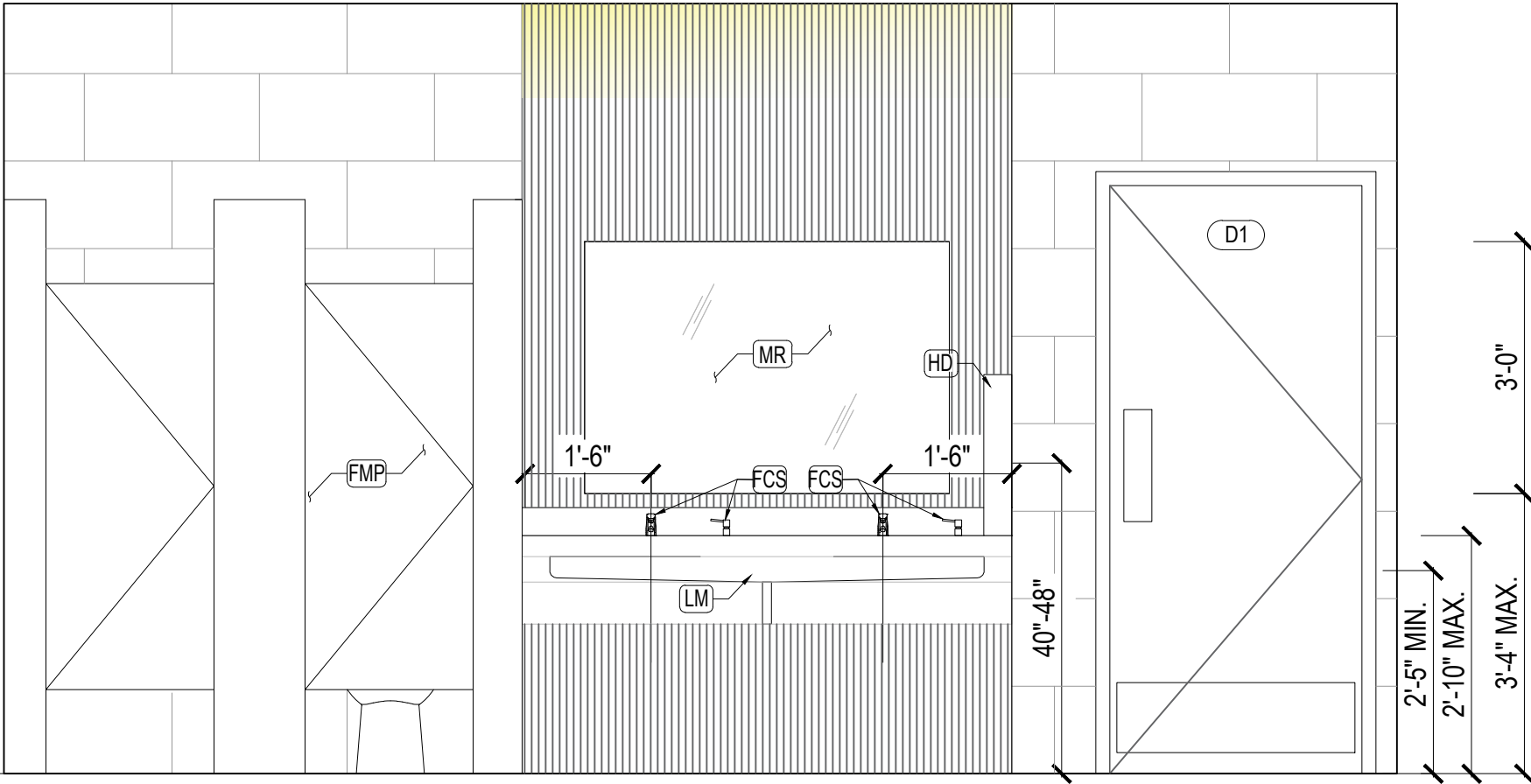
115 S Taylor Ave, Montebello, CA 90640

MEN'S RESTROOM WALL ELEVATIONS - 2ND FLOOR

Sheet Number:

A3.2

WALL VIEW "E"	9	WALL VIEW "D"	8	WALL VIEW "C"	6	WALL VIEW "B"	4	WALL VIEW "A"	2	CONSTRUCTION PLAN @ WOMEN RESTROOM	1
Scale: 1/2" = 1'-0"	-	Scale: 1/2" = 1'-0"	-	Scale: 1/2" = 1'-0"	-	Scale: 1/2" = 1'-0"	-	Scale: 1/2" = 1'-0"	-	Scale: 1/2" = 1'-0"	-

					
WALL VIEW "H"	7	WALL VIEW "G"	5	WALL VIEW "F"	3
Scale: 1/2" = 1'-0"	-	Scale: 1/2" = 1'-0"	-	Scale: 1/2" = 1'-0"	-

EQUIPMENT AND FIXTURE LEGEND

- (LM) WALL-MOUNTED LAVATORY
- (WC) AUTOMATIC FLUSH WATER CLOSET
- (UR) UNIVERSAL URINAL
- (WT) WASTE CHUTE FOR COUNTERTOP
- (HD) HAND DRIER
- (GB) GRAB BAR
- (DR) FLOOR DRAIN
- (WR) WASTE RECEPTACLE and PAPER TOWEL DISPENSER
- (BH) BAG HOOK
- (SN) SANITARY NAPKIN RECEPTACLE
- (PT) PAPER TOWEL DISPENSER
- (FCS) COORDINATED FAUCET and SOAP DISPENSER
- (TSW) TISSUE/ SEAT COVER DISPENSER/ WASTE DISPOSAL
- (FMP) FLOOR MOUNTED PARTITION
- (TD) TOILET TISSUE DISPENSER
- (MR) MIRROR
- (BC) BABY CHANGING STATION
- (US) FOLDING UTILITY SHELF
- (NT) RECESSED NAPKIN- TAMPON DISPENSER- FREE OPERATING

PLAN KEY NOTES

- (E) WINDOW - TO REMAIN

CONSTRUCTION PLAN LEGEND

- (N) CONCRETE FLOORING - TO INSTALL
- (N) DOMINATE WALL TILE
- (N) ACCENT WALL TILE
- (N) DOOR SCHEDULE - SEE SHEET A5.0
- (N) FLOOR DRAIN - TO INSTALL
- (N) BAG HOOK - TO INSTALL

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DESIGNED BY: iARCH
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CHECKED BY: iARCH DATE:

INFRASTRUCTURE ARCHITECTS

100 Progress, Suite 110,
Irvine, CA 92618
+1 949 701 8777

CITY OF MONTEBELLO

Department of Public Works

SENIOR CENTER REMODEL

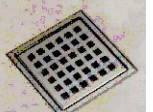
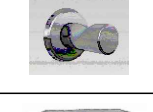
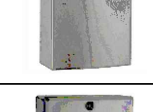
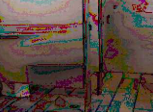
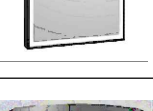
115 S Taylor Ave, Montebello, CA 90640

WOMEN'S RESTROOM WALL ELEVATIONS - 2ND FLOOR

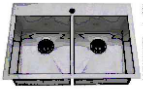
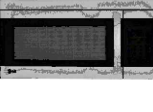
Sheet Number:

A3.3

RESTROOM EQUIPMENT SCHEDULE

ID	NAME	IMAGE	MFG./MODEL	DIMENSIONS	MATERIAL/FINISH	COLOR	REMARK
(LM)	WALL-MOUNTED LAVATORY		Truerform Model: Contempo Concrete Sink	AS SHOWN IN PLANS	Porcelain / Classic	Beach	Per manufacture Specification Accessibility : ADA Compliant
(PS)	PLUMBING SHIELD		Truerform	MATCH WITH SINK DIMENSIONS	-	-	Per manufacture Specification Accessibility : ADA Compliant
(WC)	AUTOMATIC FLUSH WATER CLOSET		American Standard Model: 3043.528.020	28-1/4" L X14" W X32-5/8" H	Vitreous China	White	Flush Technology: HET High Efficiency ADA Compliant CA Drought Compliant Approved for Commercial Use
(UR)	UNIVERSAL URINAL		American Standard Model: 6002.001-B4.020	14-7/16"D X 14-5/16" W X 22 5/8" H	Porcelain	White	Flush Technology: HET High Efficiency ADA Compliant ANSI Certification Approved for Commercial Use CA Drought Compliant
(HD)	HAND DRIER		Bobrick Model: B-3725	11-13/16" W X24-1/16" H X2" D	Stainless Steel	Silver	Finish : Satin-Finish Stainless Steel Mounting Options : Recessed Mounted Accessibility : ADA Compliant
(GB)	GRAB BAR		Bobrick Model: B-5806	30" Long 36" Long 42" Long	Stainless Steel	Silver	Finish : Satin-Finish Stainless Steel, Satin-Finish Stainless Steel - Peened Diameter : 1-1/4" (32mm) Accessibility : ADA Compliant
(DR)	FLOOR DRAIN		VIGO Model: VG07004BN	4-3/8" W	Brushed Nickel	Silver	Finish: Brushed Nickel Accessibility : ADA Compliant UPC Certification
(WR)	WASTE RECEPTRACE and PAPER TOWEL DISPENSER		Bobrick Model: B-9944	11-11/2" W X 51-1/4" H X 4-1/4" Min. D	Satin-finish Stainless Steel	Silver	Accessibility : ADA Compliant Finish : Satin-Finish Stainless Steel Operating: manual Mounting Options : Recessed Mounted Paper Type: Multi-Fold Towel Towel Capacity : 600 C-fold; 600 Multifold Waste Capacity : 12-gal.
(BH)	BAG HOOK		Koala Kare Model: 310-54-KIT	MAX. HEIGHT 48"	Stainless Steel	Silver	-
(SN)	SANITARY NAPKIN		Bobrick Model: B-270	7-1/2" W X 10" H X 3-13/16" D	Stainless Steel	Silver	Finish : Satin-Finish Stainless Steel Mounting Options : Surface Mounted Capacity : 1.0-gal. (3/8-L) Accessibility : ADA Compliant
(PT)	PAPER TOWEL DISPENSER		Bobrick Model: B-262	14"L x 10.75"W	Stainless Steel	Silver	Finish : Satin-Finish Stainless Steel Operation : Manual Capacity : 400 C-fold; 525 multifold Accessibility : ADA Compliant
(FCS)	COORDINATED FAUCET and SOAP DISPENSER		Bobrick Model: B-8879, B-8878	-	Nichel And Chrome	Silver	Finish : Polished Nickel Material : Diecast Zinc Mounting Type : Counter Mounted Operation : Automatic Accessibility : ADA Compliant
(TSW)	TISSUE/ SEAT COVER DISPENSER/ WASTE DISPOSAL		Bobrick Model: B-3091	26-5/8" W X12-5/8" H X 4" D	Stainless Steel	Silver	Finish : Satin-Finish Stainless Steel Mounting Options : Surface/Partition Mounted (Single Sided) Orientation : Vertical Sanitary Disposal : Included Configuration : Left Side of Toilet While Seated
(FP)	FLOOR MOUNTED PARTITION		Partition King Model: Floor Mounted	PER PLAN	Brushed Stainless Steel	Silver	Finish : Brushed Stainless Steel Mounting Options : Floor Mounted Strength : Very Sturdy Maintenance : Low Maintenance Hardware : AOGAO Toilet Cubicle Partition Hardware 08 Series
(TD)	TOILET TISSUE DISPENSER		Bobrick Model: B-2888	6-1/6" Wx 5-15/16" Dx 11" H	Stainless Steel	Silver	Finish : Satin-Finish Stainless Steel Mounting Options : Surface Mounted Tissue Type : Standard Roll - Double Accessibility : ADA Compliant
(MR1)	MIRROR		Bobrick	Custom dimensions as indicated on drawings	Polished Glass Frame Finish: Matte Black	-	Accessibility: ADA Compliant pencil polished edges, copper-free backing, concealed clips or j-channel
(BC)	BABY CHANGING STATION		Koala Kare Model: KB310-SSRE	21 5/8" H X 37 1/16" W	Stainless Steel	Silver	ASTM and EN compliant. Meets ADA requirements when mounted properly.
(US)	FOLDING UTILITY SHELF		Koala Kare Model: B-287	14-1/2" L X 5 3/4" W	Stainless Steel	Silver	Product Categories: Shelves Finish: Satin-Finish Stainless Steel
(NT)	RECESSED NAPKIN-TAMPON DISPENSER-FREE OPERATING		Koala Kare Model: B-4708C	14-1/2" W X 28-3/8" H	Stainless Steel	Silver	Finish: Satin-Finish Stainless Steel Vend Options: Free Mounting Options: Recessed Mounted Accessibility: ADA Compliant

EQUIPMENT SCHEDULE

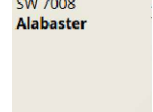
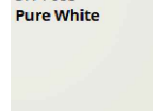
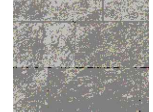
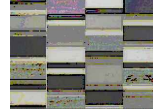
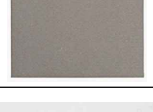
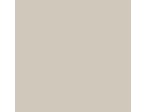
ID	NAME	IMAGE	MFG./MODEL	DIMENSIONS	MATERIAL/FINISH	COLOR	REMARK
(DS)	DOUBLE COMPARTMENT SINK		American Standard EDGEWATER 33x22 DOUBLE BOWL	(WxHxD) 33" x 22" x 9"	Stainless Steel	Silver	18 Gauge Stainless Steel 9" deep bowls Zero radius corners Dual mount (top or under) installation 36" (914mm) cabinet required
(MW)	BUILT-IN MICROWAVE		LG LMV1764ST	(WxHxD) 29 14/16" x 16 7/16" x 15 11/16"	Stainless Steel	Gray	Features: Microwave Power Output (Watts) 1000, Exterior Design WideView™ Traditional, Control Type Membrane, 300 CFM Exhaust Style: Modern And Contemporary
(RF)	REFRIGERATOR		LG LF21G6200S	(WxHxD) 32 3/4" x 69 15/16" x 31 1/4"	Stainless Steel	Gray	Counter Depth Design Built-in Ice Maker automatically Smart Cooling, Smarter Living with a Smart Inverter Compressor ENERGY STAR® Qualified
(CB)	CABINET		fenixforinteriors-na SKU: J0719	-	Matte Surface	Beige	Feature: Visual comfort, low light reflectivity, Anti-fingerprint, Soft touch, Thermal healing of superficial micro-scratches
(CT)	COUNTERTOP		FORMICA 103 FROST GIRVE	PER PLAN	Solid Surface	White	Installation: Install Per Floor Finish Plan
(MR2)	MIRROR		THEMIRRORCOMPANY	(WxH) 72" X 96"	Polished Glass	-	Commercial-grade mirrors
(DF)	DRINKING FOUNTAIN		ELKAY LZS8WS*K	(WxHxD) 17-7/8" x 18-13/16" x 3-9/16"	Stainless Steel	Silver	Base Flow Rated: 8.0 (gallons per hour) Fountain Type: Cooler Installation Type: Wall Mounted Hands Free Operation: Yes
(L)	LOCKER		Schoollockers SKU: 63151872QSS3-G2071025	(WxHxD) Each: 15" x 24" x 18"	Metal	Color to be Confirm,CBT	Large Triple Tier Metal Locker (9) Lockers
(KF)	KITCHEN FAUCET		KOHLER K-28269	18.07"(H)	VIBRANT STAINLESS	SILVER	Covered under Kohler's limited lifetime warranty Faucet body constructed of metal Single hole mounting type Deck mounted faucet installs directly to sink or countertop Includes ceramic disc cartridge Complies with ADA standards

EQUIPMENT SCHEDULE

1

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FINISH SCHEDULE

ID	NAME	IMAGE	MFG.	LOCATION	DIM.	MODEL	MATERIAL	FINISH			COLOR	REMARK
(CF)	CONCRETE EPOXY FLOORING		CONCRETE CRAFT	THROUGHOUT 2ND FLOOR RESTROOM FLOORING, U.N.O.	-	-	CONCRETE	MATTE EPOXY			LIGHT GRAY/ STAINED	Per Manufacture Specification
(WPT)	WALL PAINT	 SW 7008 Alabaster	SHERWIN WILLIAMS	THROUGHOUT 2ND FLOOR RESTROOM WALLS, U.N.O.	-	-	WATER- BASED	EGGSHELL			ALABASTER SW 7008	1 Coat primer, Paint as needed to full cover
(CPT)	CEILING PAINT	 SW 7005 Pure White	SHERWIN WILLIAMS	THROUGHOUT 2ND FLOOR RESTROOM CEILING, U.N.O.	-	-	WATER- BASED	FLAT			PURE WHITE SW 7005	1 Coat primer, Paint as needed to full cover
(DWT)	DOMINANT WALL TILE		DALTILE	THROUGHOUT 2ND FLOOR RESTROOM WALLS, U.N.O.	12" x 24"	ALPE GRAPHITE QUARTZITE STONE LOOK	PORCELAIN	FINISH Graphite / Matte	GROUT Color-Matched Grout	JOINT 1/16"	GRAPHITE/ MATTE	Stone Look Frost Resistance Meets ADA Requirements
(AWT)	ACCENT WALL TILE		DALTILE	THROUGHOUT 2ND FLOOR RESTROOM ACCENT WALLS AS INDICATED, U.N.O.	12 1/4" x 11 7/8"	AMERICAN OLEAN SERENTINA	BLOCK RANDOM GLASS & STONE MOSAIC	FINISH MATTE	GROUT COLOR-MATCHED GROUT	JOINT 1/8"	TRANQUILITY SA94	-
(TB-01)	PORCELAIN WALL TILE		MSI Surface	THROUGHOUT 1ST FLOOR RESTROOM WALLS, U.N.O.	12"X24"	-	PORCELAIN	FINISH Slight Metallic-Look	GROUT COLOR-MATCHED GROUT	JOINT 1/16"	Artistic Mix Of Gorgeous Dark Gray Hues	Durable, easy to maintain; LEED supportive.
(SC-01)	PORCELAIN FLOOR TILE		Porcelanosa	1ST FLOOR - MULTI-PURPOSE HALL / HALL WAYS	24"X24"	BOTTEGA	PORCELAIN	FINISH MATTE	GROUT COLOR-MATCHED GROUT	JOINT 1/8"	BOTTEGA LIMESTONE	Cement Look
(SC-02)	Quarry FLOOR TILE		FLOOR & DECOR	THROUGHOUT 1ST FLOOR RESTROOM FLOORING, U.N.O.	6"X6"	STONE LOOK	CERAMIC	FINISH MATTE	GROUT COLOR-MATCHED GROUT	JOINT 1/8"	GRAY	Waterproof; Frost-resistant; Heavy-duty foot traffic.
(SC-03)	Rubber Rolls	 1/2" Thick 1/4" Thick	Rubber flooring	THROUGHOUT 1ST FLOOR GYM- FLOORING, U.N.O.	Custom cut to fit your needs.	-	-	-			BLACK	3/8" Heavy Duty Rubber Rolls Available in 1/8",1/4",8mm, 3/8", and 1/2" thickness.
(BT)	COVE BASE & CORNER TILE		FLOOR & DECOR	THROUGHOUT 1ST FLOOR WALLS - COVE BASE & CORNER TILE, U.N.O.	6"X5"	SKU: 100844687 SKU: 100844711	CERAMIC	MATTE			GRAY	Waterproof, frost-resistant, withstands very heavy foot traffic.
(PT)	WALL& CEILING PAINT		SHERWIN WILLIAMS	THROUGHOUT 1ST FLOOR WALLS & CEILING, U.N.O.	-	-	WATER- BASED	SEMI-GLOSS			NATURAL WHITE SW 9542	2 COATS PRIMER, 2 COATS FINISH

NOTES:

- ALL INTERIOR PAINTING TO INCLUDE ANTI-GRAFFITI COATING.
- WATER-RESISTIVE GYP. BOARD AT WET AREAS.

RESTROOM EQUIPMENT SCHEDULE

3

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FINISH SCHEDULE

2

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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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NO.	DATE	BY	DESCRIPTION	



UNDER THE SUPERVISION OF:



DESIGNED BY: IARCH
DRAWN BY: IARCH
CHECKED BY: IARCH DATE:

CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER REMODEL

115 S Taylor Ave, Montebello, CA 90640

EQUIPMENT SPECIFICATIONS AND FINISH SCHEDULES

Sheet Number:

A4.0

DOOR TYPES & SCHEDULE

Door Schedule							
NO.	Count	Width	Height	DOOR DESCRIPTION	Door Finish	Frame Material	Manufacture
				MATERIAL			
D1	2	3'-4"	7'-2"	SOLID WOOD	FACTORY FINISH	WOOD	TRUDOOR
D2	2	3'-4"	7'-2"	SOLID WOOD	FACTORY FINISH	WOOD	TRUDOOR
D3	1	3'-7"	7'-2"	SOLID WOOD	FACTORY FINISH	WOOD	TRUDOOR
D4	1	3'-4"	7'-2"	SOLID WOOD	FACTORY FINISH	WOOD	TRUDOOR
D5	1	3'-4"	7'-2"	SOLID WOOD	FACTORY FINISH	WOOD	TRUDOOR
D6	1	5'-0"	7'-2"	METAL	FACTORY FINISH	METAL	TRUDOOR
D7	1	5'-0"	7'-2"	METAL	FACTORY FINISH	METAL	TRUDOOR
D8	1	3'-0"	7'-2"	SOLID WOOD	FACTORY FINISH	WOOD	TRUDOOR
D9	1	3'-0"	7'-2"	SOLID WOOD	FACTORY FINISH	WOOD	TRUDOOR
D10	1	4'-2"	7'-2"	SOLID WOOD	FACTORY FINISH	WOOD	TRUDOOR

WINDOW TYPES & SCHEDULE

WINDOW SCHEDULE										
Type	Count	Sill Height	Width	Height	Manufacture	Window Material	Window Finish	Frame Material	Frame Finish	Tempered Glass
W1	1	1' - 0"	6' - 0"	6' - 0"	ARCADIA	ALUMINUM	FACTORY FINISH	ALUMINUM	FACTORY FINISH	Yes
W2	1	1' - 0"	10' - 6"	6' - 0"	ARCADIA	ALUMINUM	FACTORY FINISH	ALUMINUM	FACTORY FINISH	Yes
W3	1	EXISTING			ARCADIA	ALUMINUM	FACTORY FINISH	ALUMINUM	FACTORY FINISH	Yes
W4	1	EXISTING			ARCADIA	ALUMINUM	FACTORY FINISH	ALUMINUM	FACTORY FINISH	Yes

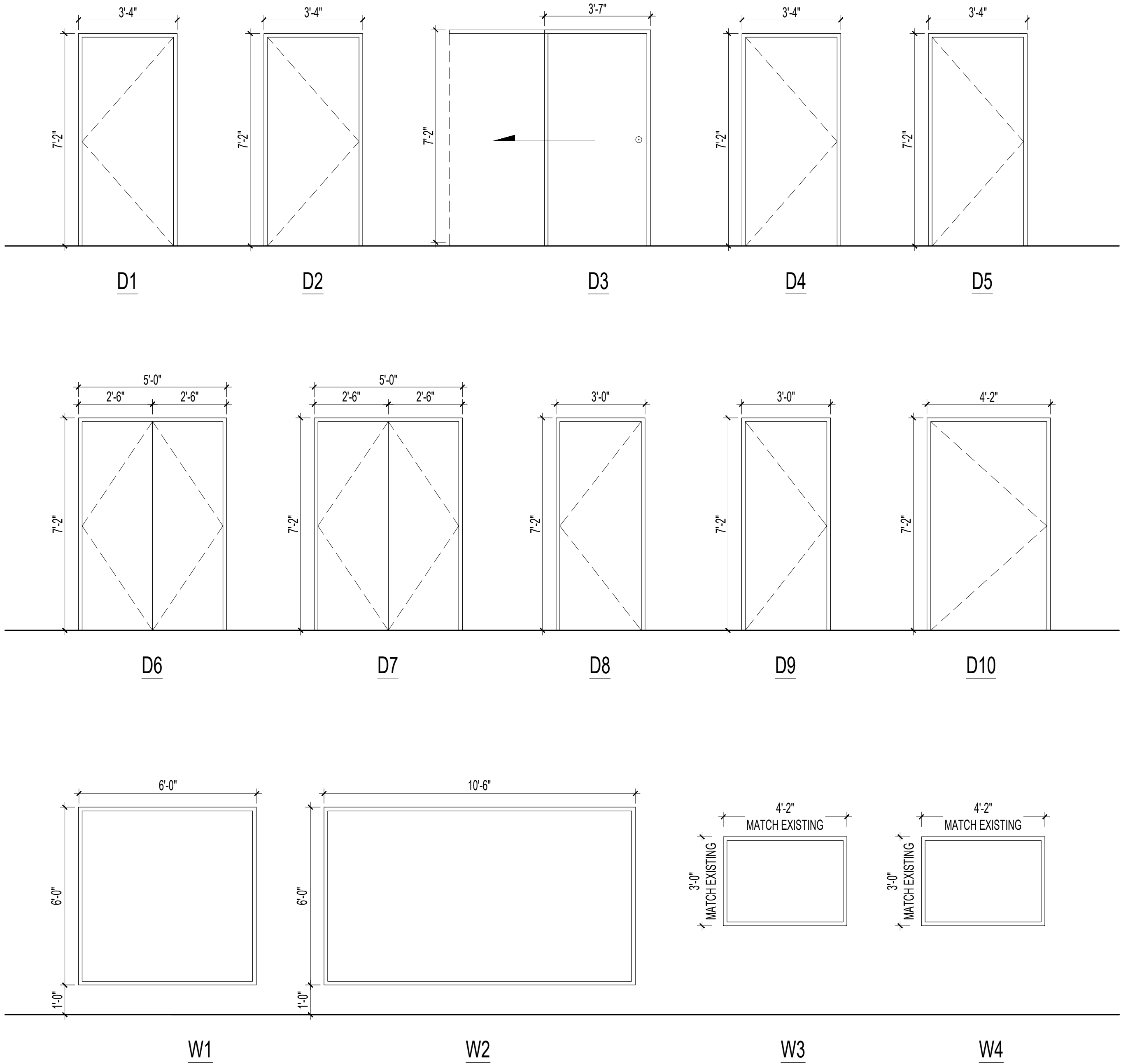
DOOR & WINDOW GENERAL NOTES

WINDOW NOTES:

- WINDOW SYSTEM FINISH AND COLOR: BLACK ANODIZED AB-8 FINISH, REFER TO MANUFACTURER'S SPECIFICATIONS.
- MULLION WIDTH, DEPTH AND THICKNESS PER ARCADIA'S SPECIFICATIONS.
- G.C. SHALL PROVIDE COMPLETE SHOP DRAWINGS OF WINDOW SYSTEMS INCLUDING: SAMPLES, WARRANTIES, STRUCTURAL CALCULATIONS, METHOD OF ATTACHMENT, CONFORM WITH SPECIFICATIONS SUBMITTAL PROCEDURE.
- ALL WINDOW OPENINGS TO BE FIELD VERIFIED
- OTHER WINDOW SYSTEM ARE NOT ACCEPTABLE UNLESS APPROVED BY CITY.

GLAZING NOTES:

- ALL GLAZING IS 1" INSULATED GLASS
- ALL EXTERIOR GLAZING IS TO BE DUAL-PANE (1"), EXTERIOR TINTED GLASS BRONZE, ARGON GAS FILLED, SOLARBAN 90 GLASS
- ALL GLAZING IS CENTER-SET IN FRAME.



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INFRASTRUCTURE ARCHITECTS
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180 Progress, Suite 110
Irvine, CA 92618
949.222.8777

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CHECKED BY: IARCH DATE:

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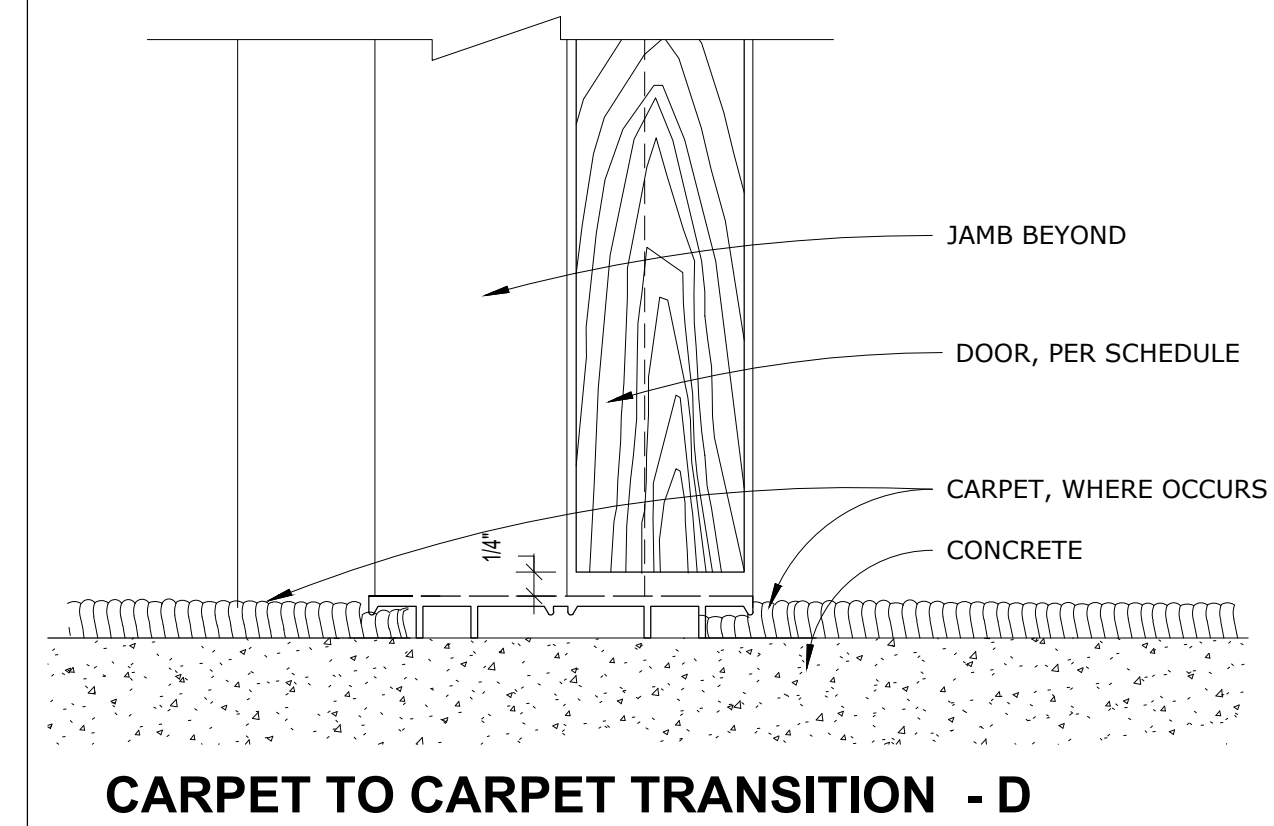
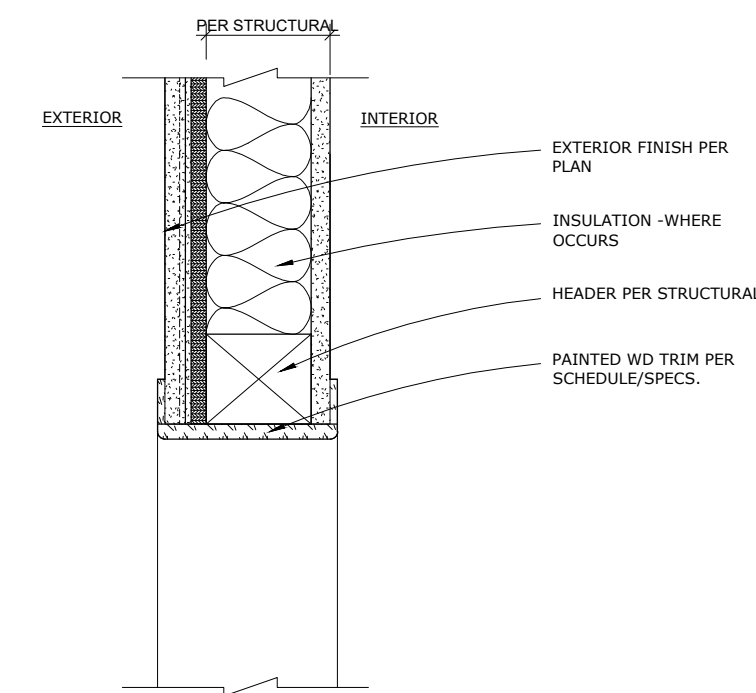
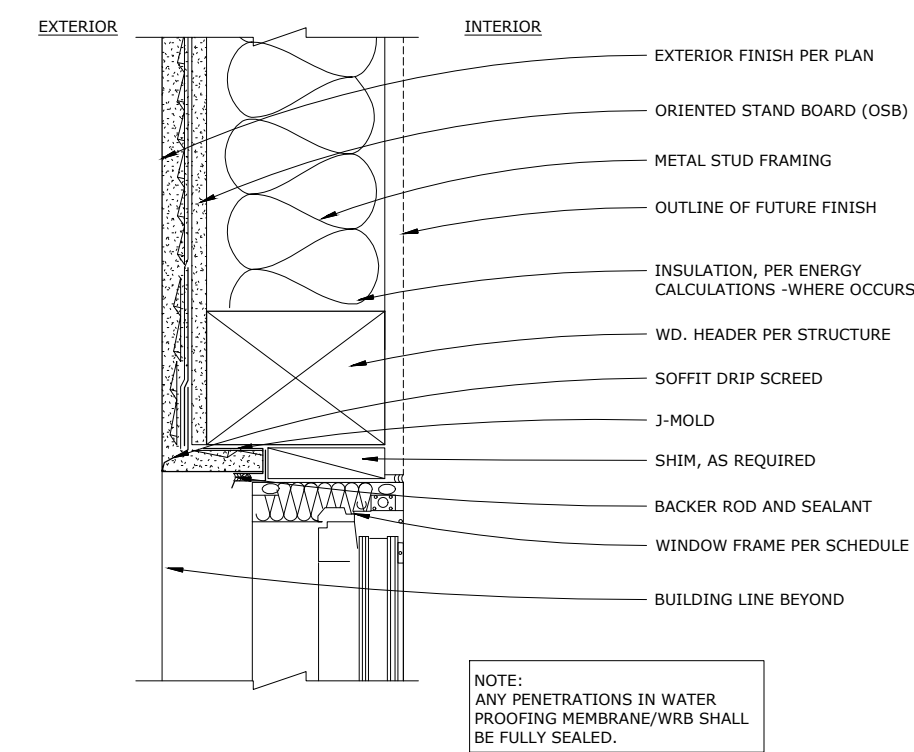
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DOOR & WINDOW TYPES AND SCHEDULES

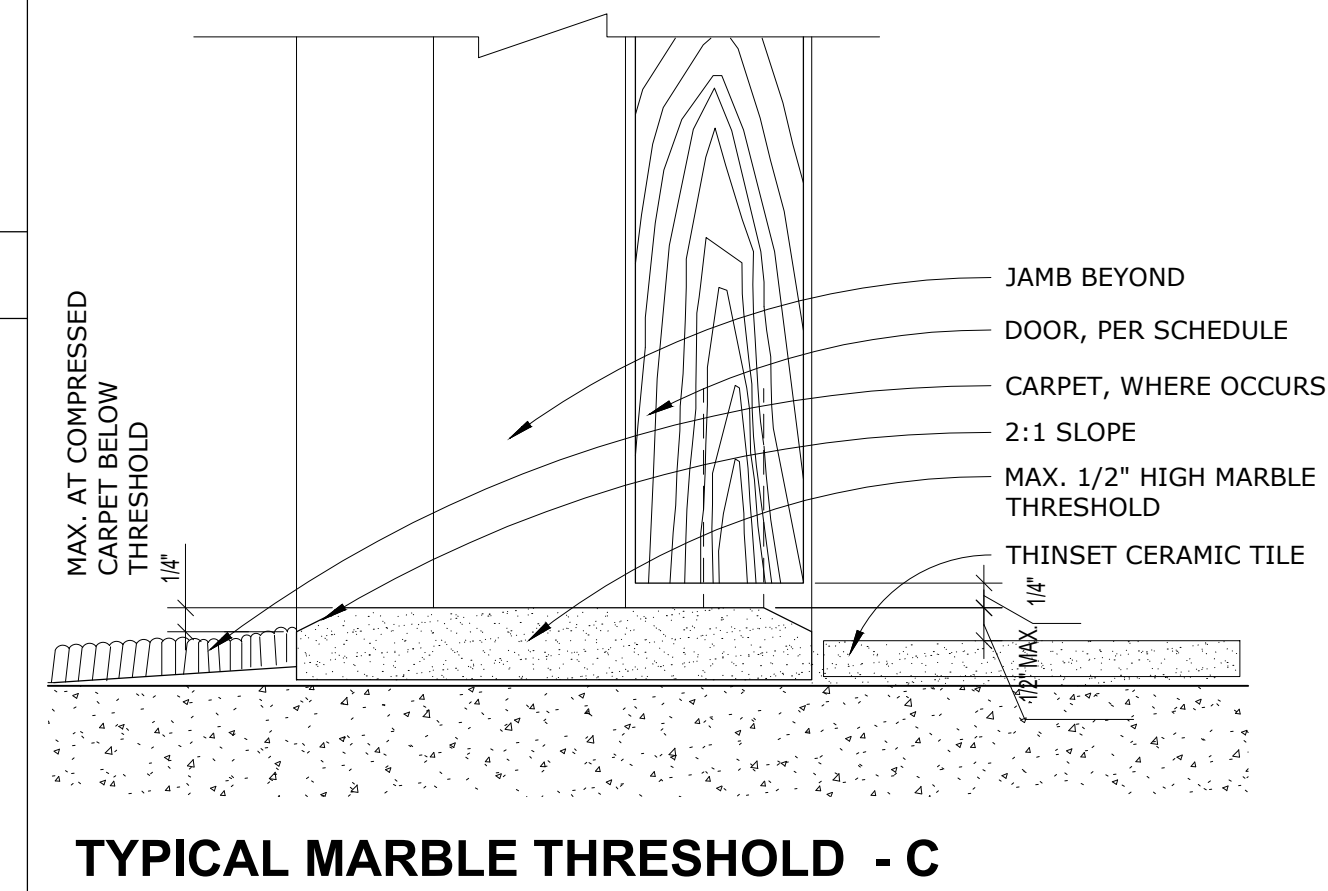
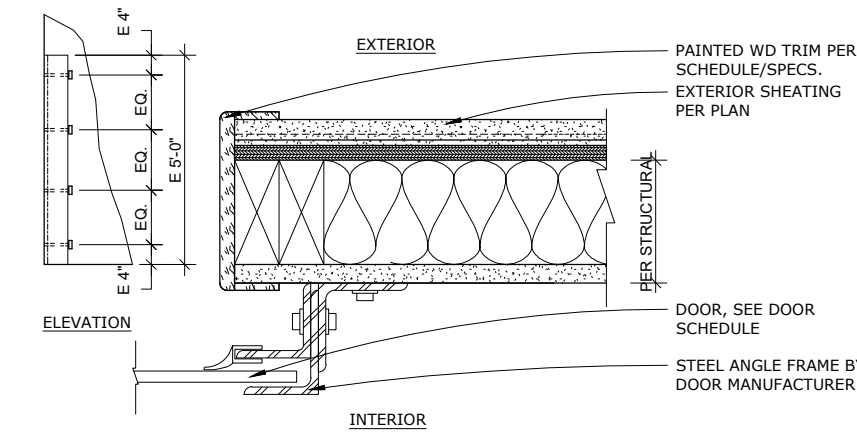
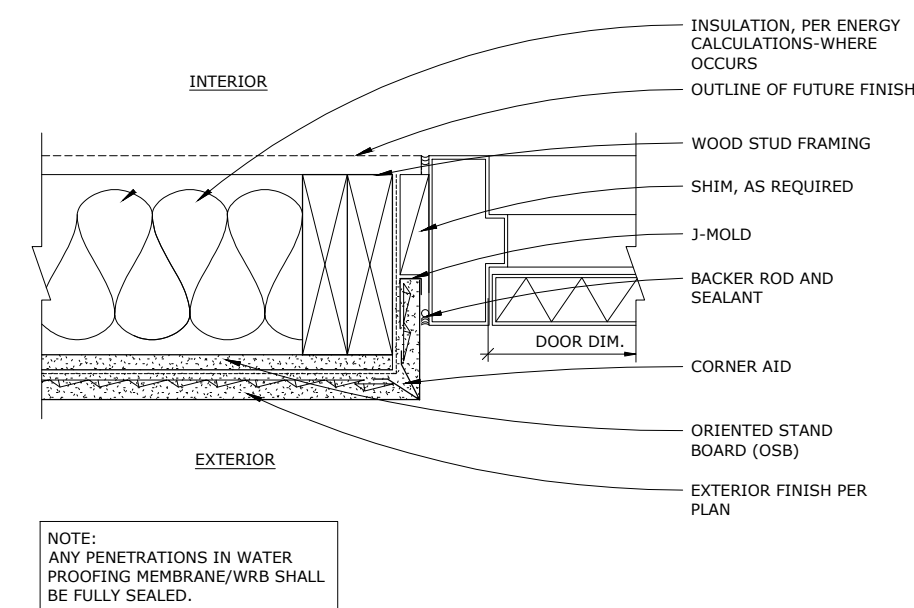
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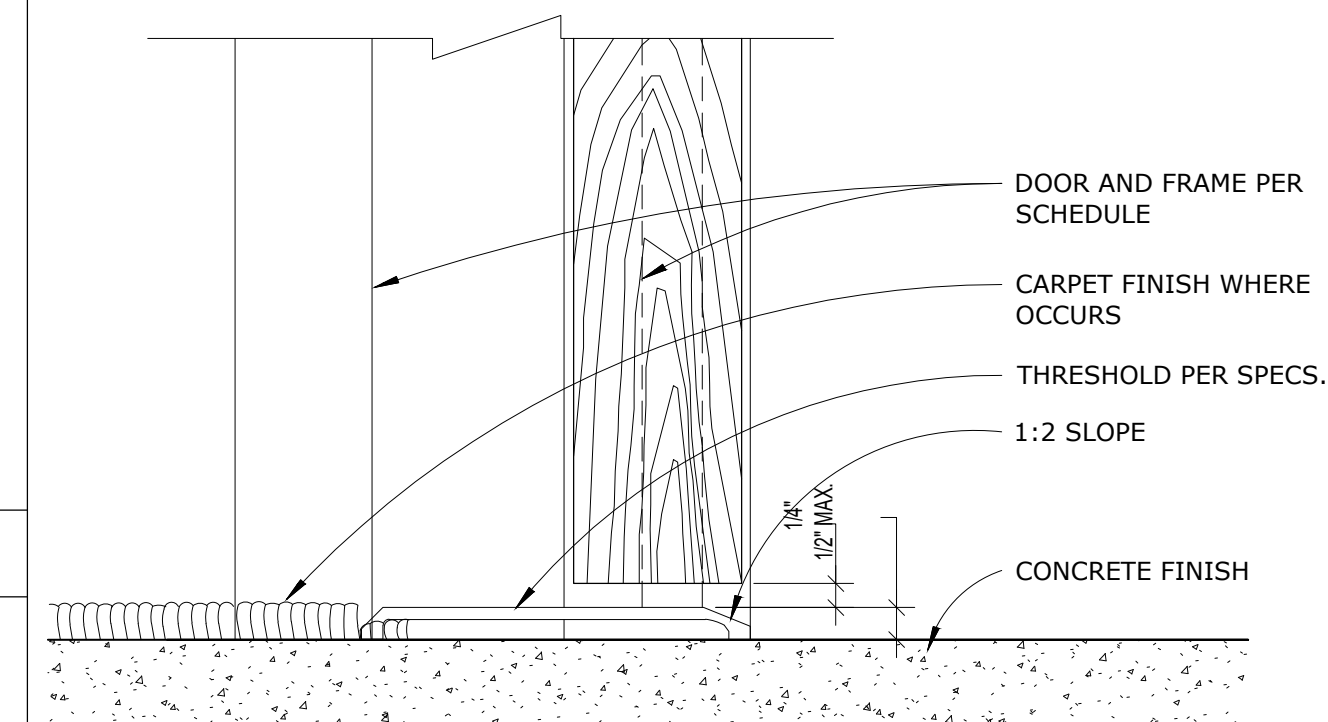
WINDOW-EXTERIOR FRAME @ HEAD	NOT SHOWN	8
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GARAGE DOOR @ HEAD	NOT SHOWN	5
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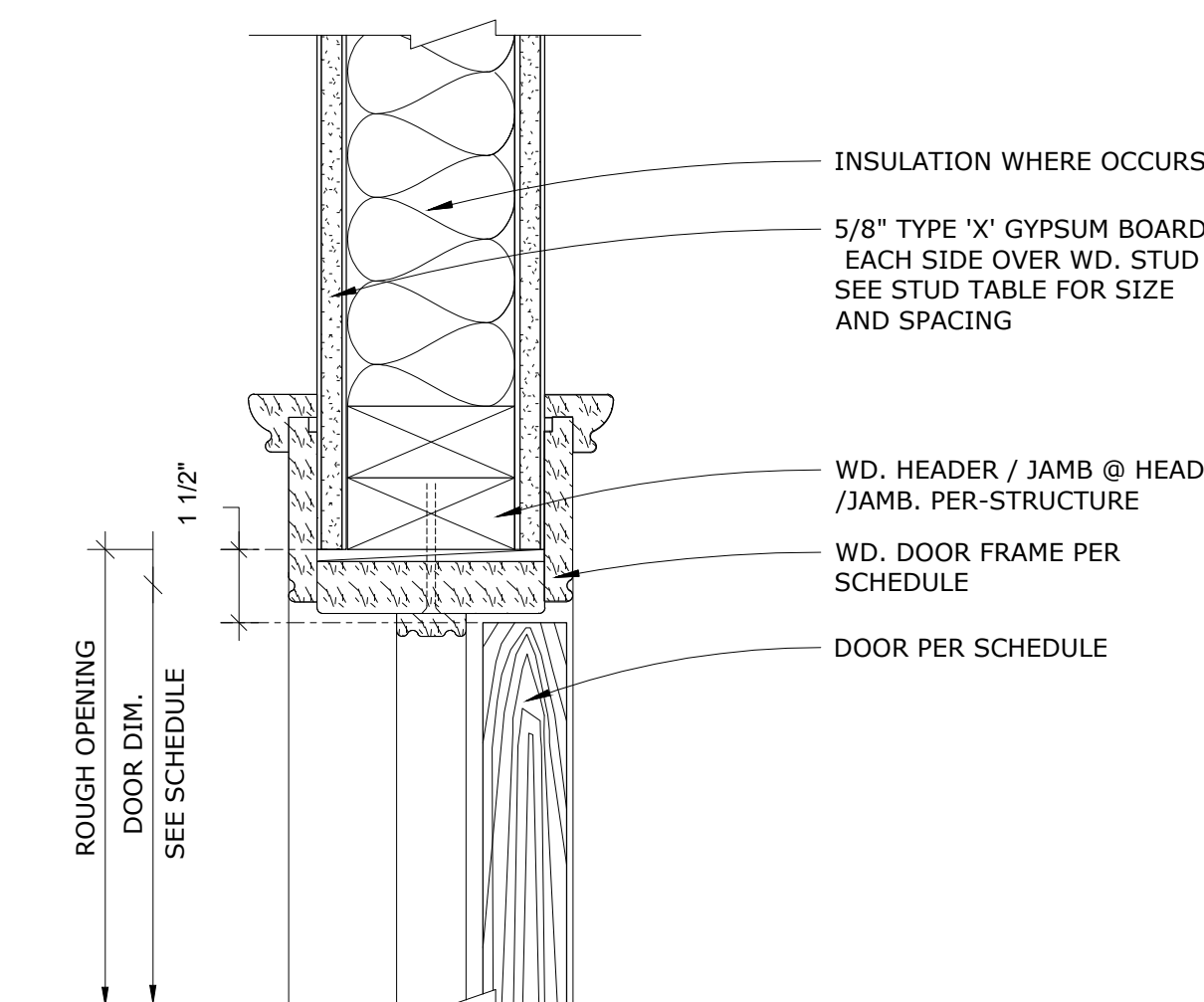
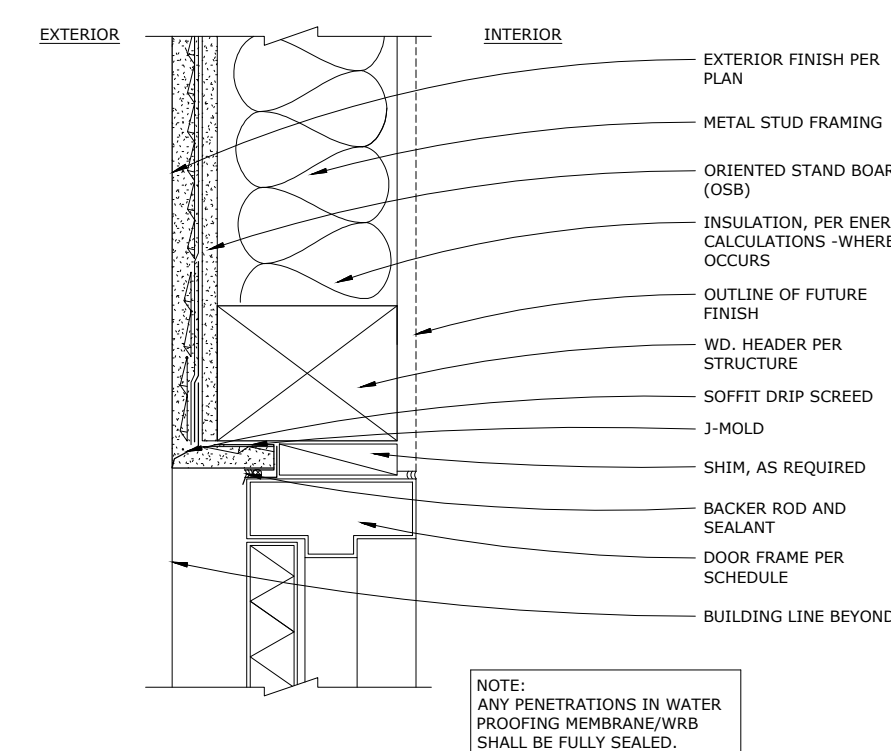
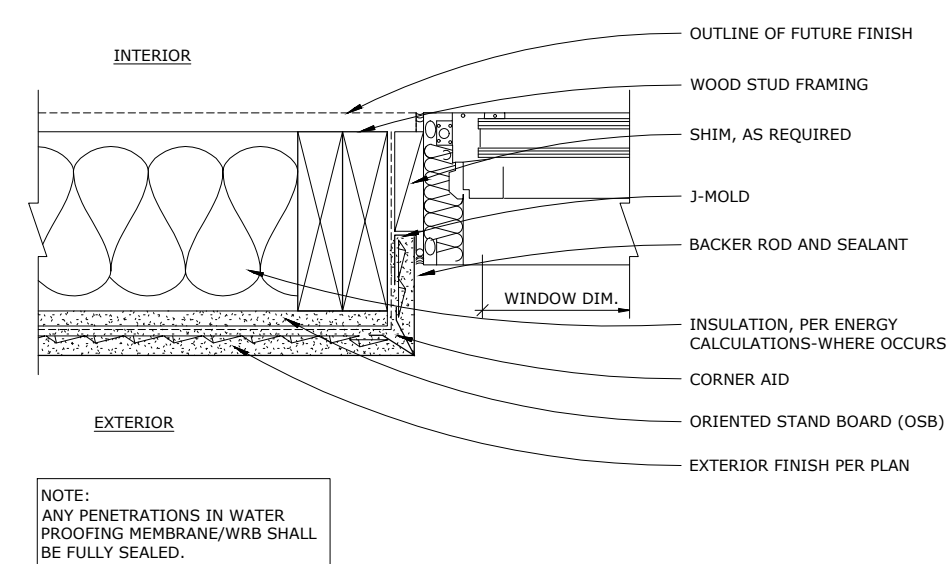


DOOR-EXTERIOR FRAME @ JAMB	NOT SHOWN	7
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GARAGE DOOR @ JAMB	NOT SHOWN	4
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CARPET TO CONC. TRANSITION - B



CONC. TO FUTURE FINISH FLOOR - A

WINDOW-EXTERIOR FRAME @ JAMB NOT SHOWN

DOOR-EXTERIOR FRAME @ HEAD NOT SHOWN

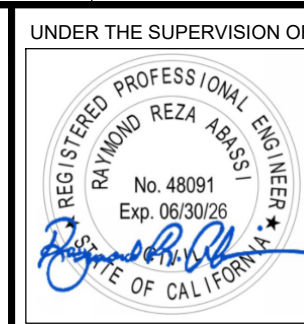
INTERIOR DOOR HEAD/ JAMB NOT SHOWN

THRESHOLD DETAILS	NOT SHOWN	1
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Department of Public Works

SENIOR CENTER REMODEL

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DETAILS

Sheet Number:

A5.1

																				GENERAL NOTES 1. PROVIDE ADDITIONAL WALL BRACING AND / OR BRIDGING AS MAY BE REQUIRED FOR HEIGHT OF WALL. 2. ALL SHAFT WALLS SHALL BE FULL HEIGHT UNLESS NOTED OTHERWISE. 3. EXTEND ALL OTHER PARTITION WALLS 6" ABOVE FIN. CEILING U.N.O., 61.1. 4. ALL FIRE RATED WALLS SHALL TERMINATE AT STRUCTURE ABOVE UNLESS NOTED OTHERWISE. ALL FIRE RATED WALLS SHALL COMPLY WITH CBC CHAPTER 7. 5. REFER TO SPECIFICATION DIVISIONS 15 AND 16 FOR HVAC, PLUMBING, AND ELECTRICAL PENETRATION OF WALLS. 6. REFER TO FLOOR PLAN FOR LOCATION OF RATED WALLS AND REFER TO DETAILS SHEETS FOR HEAD OF WALL CONDITION OF ALL RATED WALLS. 7. AT TILED WALLS, STOP TILE AND BACKER BOARD AT CEILING, PROVIDE 5/8" TYPE "X" GYP. BD. FOR REMAINING HEIGHT OF WALL. 8. OVERALL WIDTH OF WALL SHOULD BE VERIFIED WITH STRUCTURAL PLANS AND MFG. SPECS.								
COVE BASE DETAIL AT RESTROOM IF APPLICABALE					6" ≈1'-0"	4	WALL - INTERIOR FINISH AND PAINT					3" ≈1'-0"	3	WALL - CERAMIC TILE + INTERIOR FINISH & PAINT					3" ≈1'-0"	2	WALL - CERAMIC TILE BOTH SIDES					3" ≈1'-0"	1	WALL TYPE SCHEDULE

T TILE WALL					
WALL TYPE	STUD SIZE	STUD SPACING	*OVERALL WALL THK	DESIGN HT. LIMITS	COMMENT
T- 1	2X4	16" O.C.	6"	10	TILE BOTH SIDES
T- 2	2X4	16" O.C.	6 "	10	TILE + INTERIOR FINISH & PAINT
T- 3	2X4	16" O.C.	6 "	10	INTERIOR FINISH & PAINT BOTH SIDES
T- 4	4X6	16" O.C.	8 "	10	TILE BOTH SIDES
T- 5	2X4	16" O.C.	5 "	10	TILE + INTERIOR FINISH & PAINT

INSTALL NEW DRY WALL PER CONSTRUCTION PLANS. ENSURE THE WALL EXTENDS UP TO THE JOIST OR TRUSS WITH A MAXIMUM HEIGHT OF 10 FEET. SEE STRUCTURAL SHEET S1 & SD1 FOR DETAILS.

PLUMBING WALL-CERAMIC TILE BOTH SIDES		3" ≈1'-0"	5
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WALL TILE DETAIL			No Scale	6
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CONTACT 811 BEFORE YOU DIG
SAFE DIGGING PARTNER

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www.iaarchitects.com
160 Progress, Suite 110,
Irvine, CA 92618
(+1) 949-727-8777

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DRAWN BY: _____ IARCH
CHECKED BY: _____ IARCH DATE: _____

CITY OF MONTEBELLO



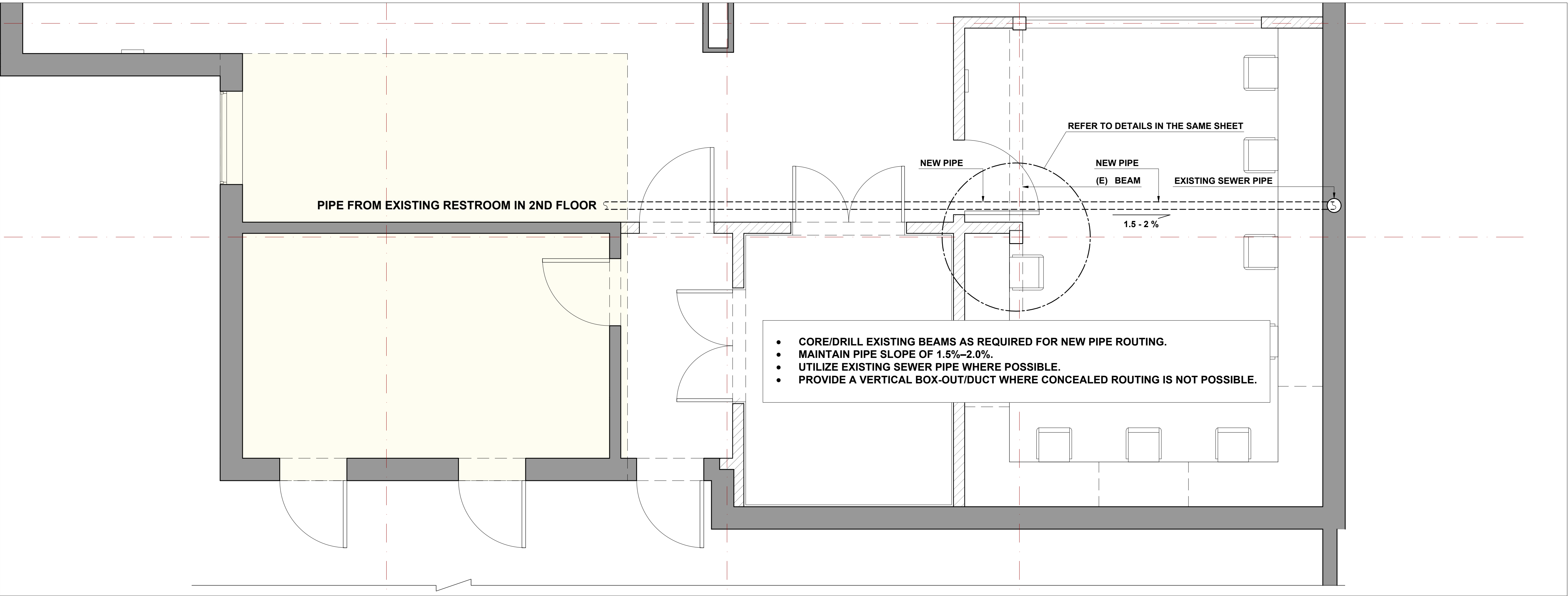
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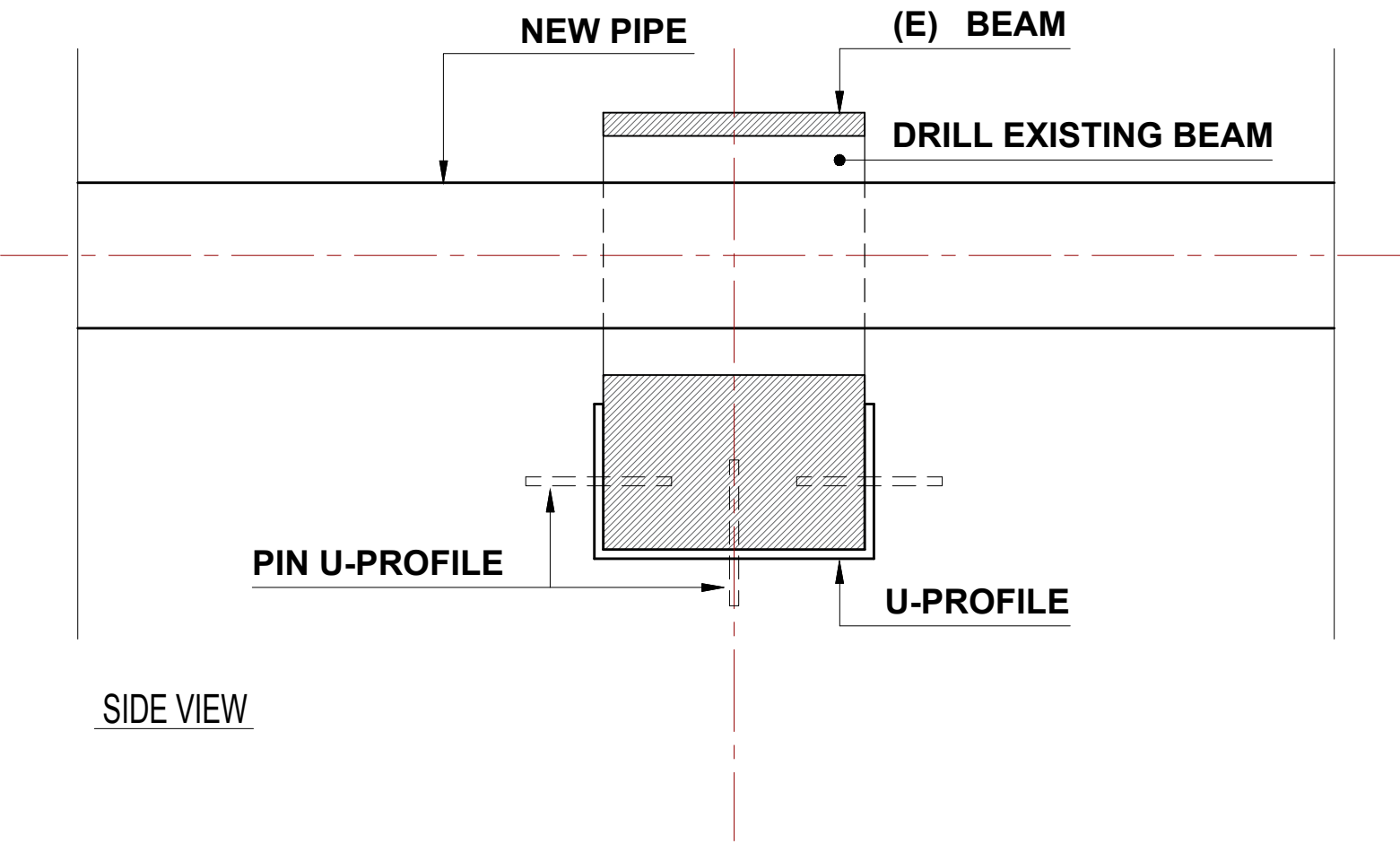
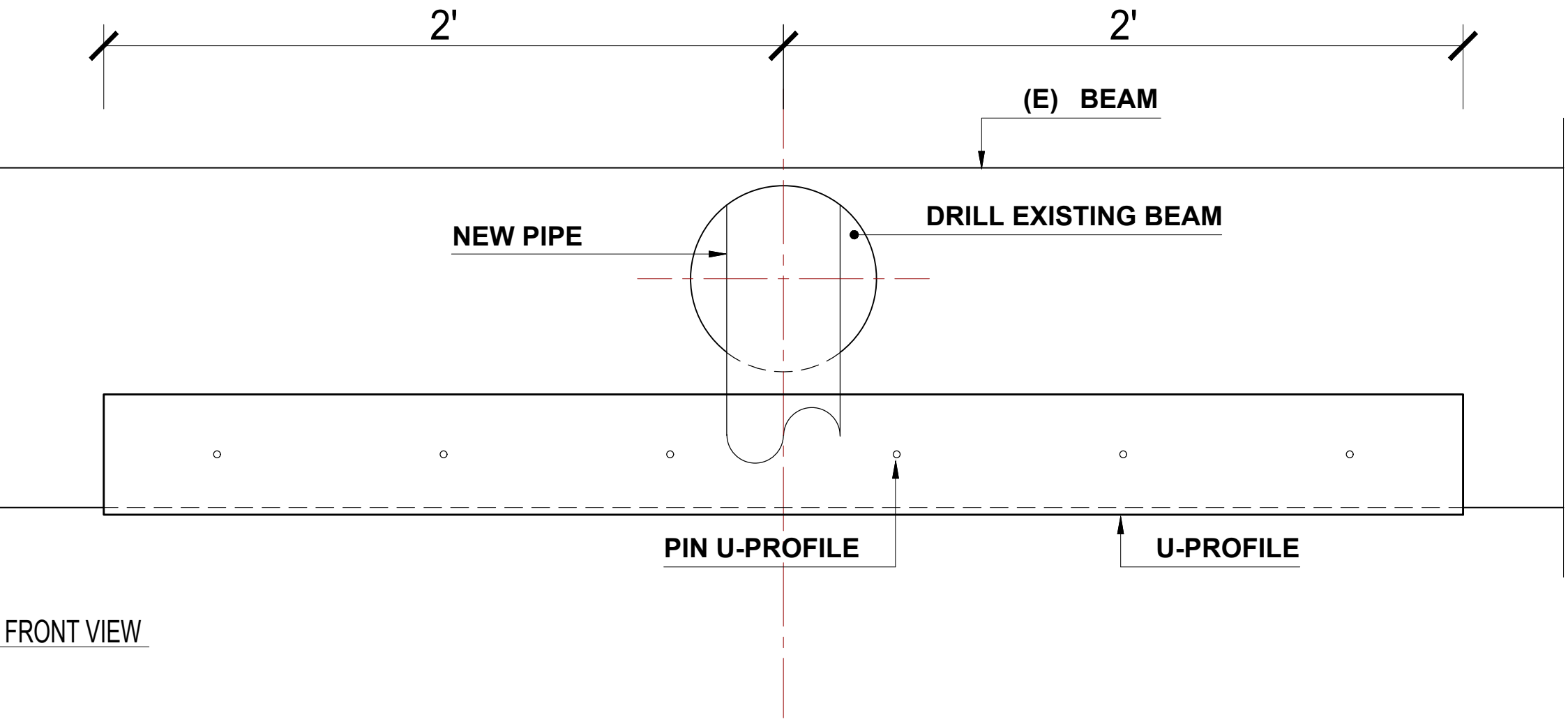
WALL TYPES & DETAILS

Sheet Number:

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PIPE LOCATION 1
Scale: NOT SHOWN -



- PROVIDE STEEL U-PROFILE UNDER EXISTING TIMBER BEAM.
- CENTER U-PROFILE AT PIPE PENETRATION.
- EXTEND U-PROFILE MIN. 2" BEYOND EACH SIDE OF OPENING.
- FASTEN U-PROFILE TO BOTH SIDES OF BEAM.
- STEEL SIZE, THICKNESS, AND FASTENERS PER STRUCTURAL DESIGN

ENLARGMENT 2
Scale: NOT SHOWN -



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA
ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153.

REVISIONS				APPROV.
NO.	DATE	BY	DESCRIPTION	



DESIGNED BY: IARCH
DRAWN BY: IARCH
CHECKED BY: IARCH DATE:



SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
PIPE INSTALLATION DETAILS

Sheet Number:

A7.0

PROJECT DESIGN CRITERIA				
BUILDING CODE			2025 CBC	
RISK CATEGORY			II	
VERTICAL (GRAVITY) DESIGN PARAMETERS: (PSF) (LIVE LOADS ARE REDUCIBLE, U.N.O.)				
	Dead	Roof live	Snow	Live
Floor	15			40

1. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL LAWS GOVERNING THE WORK AND OBTAIN ALL NECESSARY LICENSES AND PERMITS.
2. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ARCHITECT OR ENGINEER OF RECORD (E.O.R.) FOR CLARIFICATIONS.
3. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, PLUMBING, MECHANICAL, CIVIL AND ELECTRICAL DRAWINGS AS TO ALL LAYOUTS, DIMENSIONS AND ELEVATIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.
4. SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON THE STRUCTURAL DRAWINGS MAY BE CONSIDERED WITH MATERIALS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER DEMONSTRATING THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. WRITTEN APPROVAL FROM THE E.O.R. SHALL BE OBTAINED PRIOR TO THE SUBSTITUTION OF ANY MATERIAL SPECIFIED ON THE STRUCTURAL CONSTRUCTION DOCUMENTS.
5. ANY DEVIATION, MODIFICATION & SUBSTITUTION FROM THE APPROVED SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE OWNERS REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ITS USE OR INCLUSION ON THE SHOP DRAWINGS & PRIOR TO PROCEEDING WITH THE WORK.
6. EXISTING CONDITIONS AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE IMPOSED.
8. SPECIFICATIONS RELATED TO WATERPROOFING, INCLUDING BUT NOT LIMITED TO MEMBRANES, WALLS, TERRESTRIAL SEALANTS, FLASHING, VAPOR BARRIER, ARE AS SPECIFIED ON THE WATERPROOFING PROJECT CONSULTANT.
9. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS. ALL DETAILS REFERENCED, AND DETAILS NOT REFERENCED ON PLANS, SHALL BE CONSIDERED TYPICAL AND APPLY TO ALL SIMILAR CONDITIONS OF THE CONSTRUCTION.
10. UNLESS SHOWN OTHERWISE, DETAILS SHOWN ON 'TYPICAL DETAIL' SHEETS SHALL BE USED WHEREVER APPLICABLE. SPECIFIC DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER 'TYPICAL DETAILS'. SPECIFIC NOTES ON STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER NOTES SHOWN IN 'GENERAL NOTES'.
11. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO BE IN PLACE AND COMPLETED PRIOR TO ADVANCING PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR E.O.R. SHALL NOT INCLUDE OBSERVATION OF THE ABOVE ITEMS.

A.B.	ANCHOR BOLT	GLB.	GLUE-LAMINATED BEAM
ABV.	ABOVE	GR.BM.	GRADE BEAM
BAR.	REINF. BAR	GWB.	GYPSUM WALLBOARD
B.D.	BOARD	H	HIGH
BKLG.	BLOCKING	HDR.	HEADER
BLW.	BELOW	HPX	HARDY FRAME
BM.	BEAM	HORIZ.	HORIZONTAL
B.N.	BOUNDARY NAIL	INFO.	INFORMATION
C.O.B	BOTTOM OF BEAM	K.F.	KING POST
BOTT.	BOTTOM	LT.WT.	LIGHT WEIGHT
B.W.	BOTH WAYS	L.V.L.	LAMINATED VENER LUMBER
CANT.	CANTILEVER	MAS.	MASONRY
COJ.	CEILING JOIST	M.B.	MACHINE BOLT
CCL.	COLUMN	MANUF.	MANUFACTURER
CONC.	CONCRETE	(N)	NEW
CONT.	CONTINUOUS	N/G.	NATURAL GRADE
DBL.	DOUBLE	O/C	ON CENTER
D.F.	DOUGLAS FIR	P.J.	POUR JOINT
DIA.	DIAMETER	PSL.	PARALLAM BEAM
(E)	EXISTING	PLWD.	PLYWOOD
E.W.	EACH WAY	P.T.	PRESSURE TREATED
E.N.	EXPANSION JOINT	REINF.	REINFORCING
E.Q.	EDGE NAIL	REQD	REQUIRED
EQ.	EQUAL	RR.	ROOF RAFTER
E.O.R.	ENGINEER OF RECORD	T.O.B	TOP OF BEAM
F.G.	FINISH GRADE	UNLESS NOTED OTHERWISE	
F.J.	FLOOR JOIST	V.I.F.	VERIFY IN FIELD
FL.	FLUSH	F.H.	FULL HEIGHT
F.N.	FIELD NAIL		
F.O.C.	FACE OF CONCRETE		
F.O.M.	FACE OF MASONRY		
F.O.S.	FACE OF STUDS		
GA.	GAUGE		
GALV.	GALVANIZED		

1. THE CBC CHAPTER 18 SHALL BE FOLLOWED AND SHALL BE CONSIDERED MINIMUM REQUIREMENTS UNLESS MORE STRINGENT REQUIREMENTS ARE PRESENTED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
2. FOOTINGS SHALL BEAR ON NATIVE SOIL
3. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.
4. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS, NON-STRUCTURAL PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL PLANS.
5. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED WITH NON-EXPANSIVE SOIL BUT NOT BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY ATTAINS ITS FULL DESIGN STRENGTH.
6. WAITING PERIOD FOR CONCRETE SLABS-ON-GRADE PRIOR TO START OF CONSTRUCTION IS AS FOLLOWS:
 - a. DO NOT WALK ON SLAB UNTIL 24 HOURS AFTER CONCRETE HAS BEEN POURED.
 - b. BEGIN WALL FRAMING 4-5 DAYS AFTER CONCRETE POURED.
 - c. BEGIN ROOF/FLOOR FRAMING 7-10 DAYS AFTER CONCRETE POURED.
 - d. DO NOT LOAD ROOF PRIOR TO 14 DAYS AFTER CONCRETE POURED.
7. WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SHALL BE ROUGHENED TO A MINIMUM 1/4" AMPLITUDE.
8. ALUMINUM CONDUIT, ALUMINUM SLEEVES AND ALUMINUM EMBEDS ARE NOT PERMITTED IN CONCRETE.
9. ALL CONDUITS SHALL BE PLACED WITHIN THE MIDDLE ONE-THIRD OF THE SLAB THICKNESS, THE MAXIMUM SIZE OF CONDUITS SHALL BE 1 1/4" DIAMETER AND SHALL BE SPACED NO CLOSER (TO EACH OTHER OR REINFORCING STEEL) THAN 4 INCHES UNLESS PRIOR APPROVAL IS OBTAINED FROM THE E.O.R.

1. CONCRETE SHALL BE SUPPLIED AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318 AND ACI 301 EXCEPT AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II, U.N.O.
3. AGGREGATE FOR STONE CONCRETE SHALL CONFORM TO ASTM C-33. FOR LOW SHRINKAGE AGGREGATE, USE LIMESTONE OR GRANITE. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.
4. DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIXING CONCRETE SHALL CONFORM WITH ASTM C 602.
5. CONCRETE MIX DESIGNS CONTAINING FLY ASH MAY BE USED WHERE CONCRETE IS NOT VISUALLY EXPOSED. FLASH ASH SHALL CONFORM WITH ASTM C618 AND MAY REPLACE UP TO 20% PORTLAND CEMENT BY VOLUME.
6. CONCRETE STRENGTH TEST REPORTS SHALL BE IN COMPLIANCE WITH ACI 318 AND SHALL BE SUBMITTED TO E.O.R. FOR REVIEW.
7. ALL REINFORCING BARS, ANCHOR BOLTS AND ALL OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
8. ALL CONCRETE COMPRESSIVE STRENGTH (28 DAYS), f_c :
 - a. ALL LOCATIONS, U.N.O. MIN. 2500 PSI, ($W/C = 0.45$) SPECIAL INSPECTION IS REQUIRED WHEN $f_c > 2500$ PSI.
 - b. CONCRETE IN CONTACT WITH SOIL CONTAINING SULFATE $So_4 \geq 0.1\%$ BY WEIGHT: 4000 PSI, SPECIAL INSPECTION IS NOT REQUIRED.
 - c. CONCRETE IN CONTACT WITH SOIL CONTAINING SULFATE $So_4 \geq 0.2\%$ BY WEIGHT: 4500 PSI, SPECIAL INSPECTION IS NOT REQUIRED.
9. TIME BETWEEN CONCRETE BATCHING AND PLACEMENT SHALL BE IN ACCORDANCE WITH ASTM C94.
10. CONCRETE PLACEMENT/CURING/REDUCTION IN STRENGTH SHALL CONFORM TO ACI 305R AND 306.5 REQUIREMENTS FOR HOT AND COLD WEATHER CONCRETING.

1. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH ACI 315 AND ACI 318, AND CRSIS MANUAL OF STANDARD PRACTICE.
2. REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR ASTM A706(WELDABLE STEEL) AND SHALL BE GRADE 60 DEFORMED BARS, TYP., U.N.O. REINFORCING IN SLAB ON GRADE MAYBE GRADE 40 STEEL FOR BARS #4 AND SMALLER U.N.O ON THE PLANS.
3. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185, LAPS IN WWF SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRE OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES.
4. ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING BARS/STEEL ARE TO THE CENTER OF STEEL U.N.O. ON THE PLANS OR DETAILS:

<u>CONDITION</u>	<u>COVER</u>
A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
B. EXPOSED TO EARTH OR WEATHER (INCLUDING SLABS ON GRADE) #6 AND LARGER	2"
#5 AND SMALLER	1 1/2"
C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL: 1. STRUCTURAL SLABS, WALLS w/ #11 BARS AND SMALLER #14 BARS AND LARGER 2. BEAMS, COLUMNS	3/4" 1 1/2" 1 1/2"
5. LAP SPACES OF BARS SHALL CONFORM TO THE TYPICAL LAP SCHEDULE ON THE PLANS, U.N.O. NO TACK WELDING OF BARS ALLOWED.
6. MECHANICAL SPLICE COUPLERS MAY BE USED AND SHALL HAVE CURRENT ICC APPROVAL AND BE CAPABLE OF DEVELOPING 125% OF THE BARS' YIELD STRENGTH.
7. ALL REINFORCING BARS SHALL BE BENT COLD. DO NOT FIELD BEND OR UNBEND ANY BARS IN A MANNER THAT MAY DAMAGE REINFORCING.
8. REINFORCING SPACING SHOWN ON THE PLANS ARE THE MAXIMUM SPACING "ON CENTER SPACING". DO NOT EXCEED THIS, UNLESS DISCREPANCIES DURING CONSTRUCTION SHALL BE FORWARDED TO THE ENGINEER FOR REVIEW AND APPROVAL.
9. TYPICAL REINFORCING FOR CONCRETE SLAB ON METAL DECK SHALL BE 6x6-W1.4xw1.4 WELDED WIRE FABRIC, PLACE WWF MID-DEPTH OF THE SLAB OVER THE TOP OF THE FLUTE OF THE METAL DECK.
10. ALL DOWELS TO BE SET IN CONCRETE SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. NO WET SETTING, STABBING, RODDING OR OTHER MOVEMENT OF EMBEDDED ITEMS SHALL BE PERMITTED DURING THE PLACEMENT OF CONCRETE.
11. DOWELS BETWEEN FOOTING AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE MAIN REINFORCING, UNO.
12. CHAIRS OR SPACERS FOR REINFORCING SHALL BE NON-FERROUS OR PLASTIC COATED WHEN RESTING ON EXPOSED SURFACES.

1. SAWN LUMBER
ALL STRUCTURAL WOOD SHALL BE OF DOUGLAS FIR-LARCH SPECIES, (19% MAXIMUM
MOISTURE CONTENT AT THE TIME OF CONSTRUCTION U.N.O.).

FRAMING MEMBER	SPECIFICATION
BEAMS/ POST/ RAFTERS & ALL OTHER STRUCTURAL FRAMING	2x FRAMING: #2 DF 4x FRAMING: #2 DF 6x FRAMING: #1 DF 8x FRAMING: #1 DF
STUDS	DFL STUD GRADE (UP TO 9'-0") DFL #2 (TALLER THAN 9'-0")
TOP PLATES & MUD SILLS	DFL CONSTRUCTION GRADE OR BETTER

2. STRUCTURAL COMPOSITE LUMBER
- THE FOLLOWING BEAMS/HEADERS/RIMS CAN BE FROM ANY MANUFACTURER WITH CURRENT APPROVED ICC-ES EVALUATION REPORT WITH THE FOLLOWING MECHANICAL PROPERTIES:
- | FRAMING MEMBER | SIZE (WIDTH) | E_{min} (MIN) | F_{min} (MIN) | E_{parallel} (MIN) | F_{min} (MIN) | F_{min} (MIN) | E_{min} (MIN) | TYPE MATERIAL |
|----------------|----------------------|------------------------|------------------------|-----------------------------|------------------------|------------------------|------------------------|---------------|
| BEAM/HEADERS | 3 1/2" & WIDER | 3100 PSI | 750 PSI | 3000 PSI | 285 PSI | 2150 PSI | 2.0E PSI | LVL |
| HEADERS | 1 3/4" & 2 5/8" WIDE | 2800 PSI | 750 PSI | 3000 PSI | 285 PSI | 2150 PSI | 2.0E PSI | LVL |
| RIM BOARD | 1 1/4" THICK (MIN) | 1750 PSI | 525 PSI | 2500 PSI | 225 PSI | 1100 PSI | 1.3E PSI | LVL |
3. GLUED LAMINATED LUMBER
- | SPEC | F_{b}
@ BOT | F_{b}
@ TOP | F_{min} (MIN) | E (MIN) | CAMBER | CONDITION |
|--------|-------------------------|-------------------------|------------------------|-----------|------------------|-------------|
| 24F-V4 | 2400 PSI | 1850 PSI | 265 PSI | .8E PSI | 600" RADIUS, UNO | SINGLE SPAN |
| 24F-V8 | 2400 PSI | 2400 PSI | 265 PSI | .8E PSI | 600" RADIUS, UNO | ALL OTHERS |

	SHEATHING	NAILING
ROOF	APA RATED SHEATHING 15/32 PERFORMANCE CATEGORY 32/16 EXPOSURE I	8d's @ 6" B.N. 8d's @ 6" E.N. 8d's @ 12" F.N.
FLOOR	APA RATED STURD-I-FLOOR 23/32 PERFORMANCE CATEGORY 24" OC EXPOSURE I	10d's @ 6" B.N. 10d's @ 6" E.N. 10d's @ 12" F.N.

- ALL SHEATHING SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, SHALL BE C-D OR C-C SHEATHING CONFORMING TO CBC 2303.1.5.

1. NAIL SPACING TO BE NOT LESS THAN REQUIRED PENETRATION. EDGE AND END DISTANCES SHALL BE NOT LESS THAN HALF THIS SPACING. ALL SPACING AND EDGE AND END DISTANCES SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD. HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED OF A DIAMETER SMALLER THAN THAT OF THE NAILS. ALL NAILS SHALL BE SINKER NAILS AND STAGGERED U.N.O., EXCEPT AS SHOWN IN NAILING SCHEDULE.

NAIL SIZE	SHANK DIAMETER	LENGTH
8d COMMON	0.131"	2 1/2"
10d COMMON	0.148"	3"
16d COMMON	0.162"	3 1/2"

2. AS AN ALTERNATE TO 100 COMMON NAILS, THE FOLLOWING FASTENERS CAN BE USED: GRABBER PLYWOOD SCREWS (ICC-ER-5280), OR SIMPSON STRONG-TIE QUICK DRIVE SCREWS (ICC-ER-1472)
3. USE RING OR CREW SHANK NAILS AND GLUE SHEATHING TO FRAMING USING ADHESIVES MEETING AFA SPECIFICATION AFG-01 OR ASTM D3498.
4. HOT DIP GALVANIZED FASTENERS SUCH AS (BUT NOT LIMITED TO) NAILS, SCREWS, BOLTS, THREADED ROD, ETC., SHALL BE USED WHEN IN CONTACT WITH PRESERVATIVE OR FIRE RETARDANT TREATED LUMBER. EXCEPTION: PLAIN CARBON STEEL FASTENERS IN 5BXDOT AND ZINC BORATE PRESERVATIVE TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED.
5. ALL METAL FRAMING CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY (CURRENT CATALOG), OR "USP" WITH EQUIVALENT ICC PUBLISHED VALUES AND SHALL BE INSTALLED PER SPECIFICATIONS, NO EXCEPTIONS.
USE 5/8" DIA. X MIN. 12" ANCHOR BOLTS W/ MIN. 7" EMBEDMENT INTO CONCRETE FOOTING AT 48" O.C. MAX. FOR SILL PLATE TO FOUNDATION UNLESS NOTED OTHERWISE ON THE SILL PLATE SCHEDULE. A BOLT BETWEEN 6" TO 12" FROM THE END OF EACH PIECE OF SILL (2 BOLTS MIN EACH PIECE). PIECE OF SILL SHALL BE CONSIDERED ENDED WHERE PLATE IS CUT OUT OVER ONE-THIRD OF CROSS SECTION.
6. FOR SHEAR WALL APPLICATIONS, ANCHOR BOLT SHALL BE INSTALLED WITH PLATE W/ WASHERS OF MIN. 3" SQ. X 0.229" THICK BETWEEN SILL PLATE AND NUT. EDGE(S) OF PLATE WASHERS SHALL BE 1/2" MAX. FROM INSIDE FACE OF SHEAR PANEL.
FOR NON-SHEAR WALL APPLICATIONS, ANCHOR BOLT SHALL BE INSTALL WITH ROUND WASHERS AND SHOULD CONFORM WITH ANSI/ASME B 18.22.1. USE MIN. 1 3/8" Ø X 7/64" THICK WASHER FOR 1/2" Ø BOLT, 1 3/4" Ø X 9/64" THICK WASHER FOR 5/8" Ø BOLT AND 2 1/2" Ø X 1 1/64" THICK WASHER FOR 1" Ø BOLT. U.N.O.
7. STUD WALLS PERPENDICULAR TO A CONCRETE OR MASONRY WALL SHALL BE BOLTED TO THE CONCRETE OR MASONRY WALL WITH 5/8" DIAMETER X 8" A307 BOLTS AT TOP, MID-HEIGHT AND BOTTOM.
8. FOR INTERIOR NON-SHEAR WALLS USE SIMPSON 0.1570" SERIES PDPFWAL SHOT PINS WITH A PENETRATION OF 1 1/4" INTO SLAB AT 16" O.C. TO BE INSTALLED IN ACCORDANCE WITH ICC ESR-2138.

1. PROVIDE DOUBLE JOISTS BENEATH ALL PARALLEL WALLS AND SOLID BLOCKING BENEATH ALL WALLS PERPENDICULAR TO JOISTS.
11. ALL CEILING JOISTS ARE TO BE 2x JOISTS. REFER TO FRAMING FOR ACTUAL SIZE AND SPACING.
12. DO NOT CUT, BORE, COUNTERSINK OR NOTCH WOOD MEMBERS EXCEPT WHERE SHOWN IN THE DETAILS.
13. HOLES IN WOOD MEMBERS FOR BOLTS SHALL BE THE NOMINAL BOLT DIAMETER PLUS 1/8".
14. LAG SCREWS SHALL BE TURNED, NOT DRIVEN, INTO PRE DRILLED HOLES. HOLES IN WOOD FOR LAG SCREW SHANK SHALL BE BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK, AND FOR THE THREADED PORTION BORED WITH A BIT NOT LARGER THAN 40% TO 70% OF THE SHANK DIAMETER.
15. WOOD SCREWS SHALL BE TURNED, NOT DRIVEN, INTO LAG HOLES. SOAP OR OTHER LUBRICANTS SHALL BE PERMITTED AS NEEDED TO FACILITATE THE INSERTION AND PREVENT DAMAGE OF THE WOOD SCREW. LAG SCREWS SHALL BE ABOUT 7/8 THE DIAMETER OF THE SCREW. THE MINIMUM PENETRATION OF WOOD SCREWS SHALL BE 10 TIMES THE SCREW DIAMETER OR 1.5", WHICHEVER IS GREATER. PENETRATION IS MEASURED INTO THE PIECE RECEIVING THE NAIL POINT.
16. WOOD NAILERS: UNO, ON PLANS AND DETAILS, WHERE WOOD MEMBERS ARE TO BE CONNECTED TO STEEL ELEMENTS, OR WHERE WOOD NAILERS CONNECTED TO STEEL MEMBERS ARE NEEDED FOR PROPER INSTALLATION OF FINISH MATERIALS, AS A MINIMUM PROVIDE WOOD NAILERS AS SPECIFIED BELOW WITH 5/8"Ø WELDED THREADED STUDS @ 24" O.C.:
 - A. WOOD NAILERS NEEDED ONLY FOR INSTALLATION OF FINISH MATERIAL: 2X WOOD NAILERS, COUNTERSINKING OF THREADED STUDS BOLT IS ACCEPTABLE IF NEEDED FOR FLUSH INSTALLATION OF FINISH MATERIAL.
 - B. WOOD NAILERS NEEDED TO SUPPORT OTHER WOOD ELEMENTS: 2X OR 3X WOOD NAILERS WITH OR WITHOUT COUNTERSINKING OF THREADED STUDS BOLT RESPECTIVELY.
17. STRUCTURAL GLUED-LAMINATED (GLULAM) TIMBER OF SOFTWOOD SPECIES SHALL BE IN CONFORMANCE WITH ANSI/APC STANDARD A190.1 AND ASTM D3737, OR OTHER CODE APPROVED DESIGN, MANUFACTURING AND/OR QUALITY ASSURANCE PROCEDURES. MEMBERS SHALL BE MARKED WITH THE ENGINEERED WOOD SYSTEM AIA EWS TRADEMARK INDICATING CONFORMANCE WITH THE MANUFACTURING, QUALITY ASSURANCE AND MARKING PROVISIONS OF ANSI/APC STANDARD A190.1. THE MANUFACTURER OR SELLER SHALL SUBMIT CERTIFICATES OF CONFORMANCE TO THE FIELD INSPECTOR PRIOR TO INSTALLATION.
18. ALL WOOD CONNECTION CONNECTORS SHOWN ON THE PLANS OR DETAILS SHALL BE SIMPSON STRONG-TIE OR EQUIVALENT, U.N.O. ALL CONNECTORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS IN CONJUNCTION WITH APPROVED ICC REPORTS. NOTIFY E.O.R. FOR ANY POTENTIAL SUBSTITUTION PRIOR TO COMMENCING WORK.
19. SDS SCREWS SPECIFIED ON PLANS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE WITH ICC ESR-2236. ALTERNATES MAYBE USED ONLY WITH PRIOR APPROVAL BY E.O.R.

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF		
1. BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TOP PLATE	3-8d COMMON	TOE NAIL
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON	PER JOIST, TOE NAIL
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAP'S OVER PARTITION	3-16d COMMON	FACE NAIL
4. CEILING JOIST ATTACHED TO PARALLEL RAFTER	PER TABLE 2305.11.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4"x20 GA.RIDGE STRAP TO RAFTER	3-10d COMMON	FACE NAIL EACH RAFTER
6. RAFTER OR ROOF TRUSS TO TOP PLATE	3-10d COMMON	(2) TOE NAILS ON ONE SIDE AND (1) TOE NAIL ON OPP. SIDE OF EACH RAFTER OR TRUSS
7. ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	3-10d COMMON	TOE NAIL
WALL		
8. STUD TO STUD(NOT AT BRACED WALL PANELS)	16d COMMON	24" o.c. FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON	16" o.c. FACE NAIL
10. BUILT-UP HEADER(2" TO 2" HEADER WITH 1/2" SPACER)	16d COMMON	16" o.c. FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON	TOE NAIL
12. TOP PLATE TO TOP PLATE	16d COMMON	16" o.c. FACE NAIL
13. DOUBLE TOP PLATE SPLICE	8-16d COMMON	FACE NAIL ON EA. SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EA. SIDE OF END JOINT)
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING(NOT AT BRACED WALL PANELS)	16d COMMON	16" o.c. FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING(AT BRACED WALL PANELS)	2-16d COMMON	16" o.c. FACE NAIL
16. TOP OR BOTTOM PLATE TO STUD.	2-16d COMMON	END NAIL
17. TOP PLATES, LAP'S AT CORNERS AND INTERSECTIONS.	2-16d COMMON	FACE NAIL
18. 1" BRACE TO EACH STUD AND PLATE.	2-8d COMMON	FACE NAIL
19. 1"x6" SHEATHING TO EACH BEARING.	2-8d COMMON	FACE NAIL
20. 1"x8" AND WIDER SHEATHING TO EACH BEARING.	3-8d COMMON	FACE NAIL

FLOOR		
21. JOIST TO SILL, TOP PLATE OR GIRDER.	3-8d COMMON	TOE NAIL
22. RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE	8d COMMON	6" o.c. TOE NAIL
23. 1"x6" SUBFLOOR OR LESS TO EACH JOIST.	2-8d COMMON	FACE NAIL
24. 2" SUBFLOOR TO JOIST OR GIRDER.	2-16d COMMON	BLIND AND FACE NAIL
25. 2" PLANKS (PLANK # BEAM-FLOOR & ROOF).	2-16d COMMON	AT EACH BEARING, FACE NAIL.
26. BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS.	20d COMMON	32" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES.
	AND: 2-20d COMMON	FACE NAIL AT ENDS AND AT EACH SPLICE.
27. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS.	3-16d COMMON	EACH JOIST OR RAFTER, FACE NAIL
28. BAND OR RIM JOIST TO JOIST.	3-16d COMMON	END NAIL
29. BRIDGING OR BLOCKING TO JOIST.	2-8d COMMON	EACH END, TOE NAIL

A. NAILS ARE SMOOTH COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 90 KSI FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.177 INCH, AND 100 KSI FOR SHANK DIAMETERS OF 0.142 INCH OR LESS.

B. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.

D. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON CHAPTER

E. FOR WOOD STRUCTURAL PANEL ROOF SHEATHING ATTACHED TO GABLE END ROOF

FRAMING AND TO INTERMEDIATE SUPPORTS WITHIN 48 INCHES OF ROOF EDGES AND RIDGES, NAILS SHALL BE SPACED AT 6 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 130 MPH AND SHALL BE SPACED 4 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 MPH OR GREATER BUT LESS THAN 140 MPH.

F. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C208.

G. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.

WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TWO NAILS FROM THE CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.

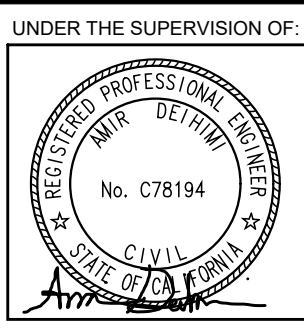
1. RSR5-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.

1. ALL NON-STRUCTURAL ELEMENTS SHALL BE CONSTRUCTED PER APPROVED CODE REQUIREMENTS. FRAMING PLAN IS ONLY SHOWING FOR THE MAIN STRUCTURAL ELEMENTS IN ACCORDANCE WITH BUILDING CODE OR REQUIREMENTS ARE SPECIFIED OR REQUIRED BY THE LOCAL JURISDICTION.
2. ALL EXTERIOR LUMBER AND ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY, OR EXPOSED TO THE EXTERIOR SHALL BE TREATED LUMBER.
3. ALL WALLS SHALL HAVE SINGLE BOTTOM PLATE AND DOUBLE TOP PLATE, UNO.
4. STUD BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES LAPPED AT WALL AND PARTITION INTERSECTIONS. JOINTS IN UPPER AND LOWER MEMBERS OF DOUBLE TOP PLATES SHALL BE STAGGERED AT LEAST 4'-0".
5. FOR WALLS 1'-0" OR GREATER PROVIDE BLOCKING AT MID-HEIGHT FOR CONSTRUCTION STABILITY.
6. ALL WALLS SHALL BE CONSTRUCTED USING 2x STUDS @ 16" O.C. REFER TO FRAMING PLANS FOR ACTUAL STUD SIZE AND SPACING.
7. SILL PLATE SHALL BE PRESSURE-TREATED AND UNDER SHEAR WALLS OF UP TO 4'-0" IN LENGTH MUST BE CONTINUOUS.
8. WOOD COLUMNS SHALL HAVE SOLID VERTICAL BLOCKING THROUGH THE FLOORS TO THE SUPPORT BELOW.
9. I-JOISTS SHALL BE MANUFACTURED BY WEYERHAEUSER OR EQUIVALENT APPROVED ICG MANUFACTURED PRODUCT.

NO.	SHEET NO.	SHEET TITLE
1	S-0.10	GENERAL NOTES & REQUIREMENTS
2	S-0.11	GENERAL NOTES & REQUIREMENTS
3	S-0.20	TYPICAL DETAILS
4	S-1.0	FOUNDATION PLAN
5	S-2.0	FLOOR FRAMING PLAN
6	SD1.0	STRUCTURAL DETAILS

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY CAUSE DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4133.

REVISIONS				
NO.	DATE	BY	DESCRIPTION	APPROV.



DESIGNED BY:	M.T.
DRAWN BY:	M.T.
CHECKED BY: S.W.	DATE:01/04/202



Department of Public Works

SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640

GENERAL NOTES & REQUIREMENTS

Sheet Number:

S-0.10

MASONRY

1. MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF TMS 402/602-22, 'BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES' AND CBC 2104.
2. MIN. SPECIFIED COMPRESSIVE STRENGTH SHALL BE fm = 2000 PSI, UNO ON THE PLANS.
3. CEMENT: ASTM C-150, LOW ALKALI, TYPE I OR II PORTLAND CEMENT. (MASONRY CEMENT AND PLASTIC CEMENT SHALL NOT BE USED).
4. MORTAR:

A. CONFORMING TO ASTM C-270, TYPE S.

B. MIX PROPORTIONS SHALL CONFORM TO ASTM C-476.

C. AGGREGATES SHALL CONFORM TO ASTM C-144.
5. GROUT:

A. CONFORMING TO ASTM C-476.

B. ATTAINS THE MASONRY COMPRESSIVE STRENGTH fm OR 2000 PSI AT 28 DAYS, WHICHEVER IS GREATER.

C. MIX PROPORTIONS SHALL CONFORM TO ASTM C-476.

D. AGGREGATES SHALL CONFORM TO ASTM C-404.

E. USE COARSE GROUT IN GROUT SPACES 2 INCHES OR MORE IN WIDTH AND IN CELLS TO BE GROUTED SOLID.
6. PRISM TEST SHALL BE PERFORMED FOR MASONRY WITH fm OVER 2000 PSI AS DESCRIBED IN TMS 602 SECTION 1.4B
7. VERTICAL REINFORCING SHALL BE FULL HEIGHT OF WALL AND SHALL BE BRACED AT 8'-0" MAXIMUM TO PREVENT MOVEMENT WHILE GROUTING.
8. HORIZONTAL REINFORCING SHALL BE IN BOND BEAM UNITS AND TIED SECURELY TO VERTICAL REINFORCING.
9. DOWELS, ANCHORS, AND OTHER EMBEDDED ITEMS SHALL BE TIED SECURELY IN PLACE TO PREVENT MOVEMENT WHILE GROUTING, WET SETTING OR STABBING IS NOT ALLOWED.
10. MAXIMUM GROUT LIFTS SHALL NOT EXCEED 8'-0" AND CLEANOUTS AT THE BOTTOM OF ALL CELLS SHALL BE USED UNLESS THE LIFT IS 5'-4" OR LESS, THE CLEANOUTS SHALL BE SEALED BEFORE GROUTING. GROUT FOR EACH POUR SHALL BE STOPPED 1 1/2" BELOW THE TOP OF A BLOCK COURSE EXCEPT AT TH FINAL COURSE. ALL GROUT SHALL BE THOROUGHLY CONSOLIDATED BY VIBRATING IMMEDIATELY AFTER PLACING. SHAKING OR RODDING REBAR IS NOT ALLOWED. FILL ALL CELLS WITH GROUT.
11. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SAFETY OF LIFT HEIGHT FOR OPEN ENDED OR FIELD MODIFIED BLOCKS.
12. STRUCTURAL MASONRY SHALL BE HOLLOW, MEDIUM WEIGHT(115 PCF), LOAD BEARING CONCRETE MASONRY UNIT CONFORMING TO CBC 2103.1.1. BLOCK TEST DATA BY A CERTIFIED LAB. SHALL BE PROVIDED TO THE E.O.R FOR REVIEW.
13. ALL MASONRY BLOCK CONSTRUCTION SHALL BE PLACED IN RUNNING BOND METHOD WITH ALL VERTICAL CELLS IN ALIGNMENT, TYP.
14. LAP REINFORCING BARS PER TYPICAL MASONRY LAP SCHEDULE, U.N.O.
15. MECHANICAL, ELECTRICAL AND PLUMBING PENETRATION SHALL COMPLY WITH:

A. DO NOT CUT ANY REINFORCING THAT MAY INTERFERE WITH ANY PENETRATIONS. INSTALL SLEEVES AS REQUIRED PRIOR TO GROUTING OF CELLS.

B. NO PENETRATION SHALL BE CORED WITHOUT PRIOR APPROVAL FROM E.O.R.

C. CONDUITS AND PIPING PARALLEL TO PLANE OF WALL MAY NOT BE EMBEDDED IN WALL.

D. PENETRATION AT UNTELS, PILASTERS AND JAMBS ARE ONLY PERMITTED AS SHOWN OR SPECIFICALLY DETAILED. NO OTHER PENETRATION IS ALLOWED.

STRUCTURAL STEEL

1. STRUCTURAL STEEL TO BE SUPPLIED DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS.
2. PROVIDE THE FOLLOWING MATERIALS FOR STRUCTURAL STEEL, UNO:

ROLLED WIDE FLANGE SECTIONS	ASTM A992 (Fy = 50 ksi)
HOLLOW STRUCTURAL SECTIONS (HSS), SQUARE AND RECT.	ASTM A500, GR.B (Fy = 46 KSI)
STEEL PIPE	ASTM A53, GR B (Fy=35 KSI)
HOLLOW STRUCTURAL SECTION (HSS), ROUND	ASTM A500, GR. B (Fy=42 KSI)
HP SECTIONS	ASTM A572, GR.50 (Fy=50 KSI)
PLATES, ANGLES, CHANNELS & TEES	ASTM A36
MACHINE BOLTS	ASTM A307
HIGH STRENGTH BOLTS	ASTM A325, Type N, A490
WELDED HEADED STUDS	ASTM A108 / A1044
NUTS	ASTM A563
ANCHOR RODS/BOLTS	ASTM F1554, GR. 36 OR 55
3. HOLES FOR BOLTS SHOULD BE DRILLED OR PUNCHED & SHALL BE 1/16" LARGER THAN BOLT DIAMETER.
4. ALL STRUCTURAL WELDING PROCEDURES AND MATERIALS SHALL CONFORM TO BUILDING CODE, CHAPTER 22. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.
5. ALL TESTING AND INSPECTION OF SHOP AND FIELD WELDING OPERATIONS SHALL BE MADE BY A CERTIFIED WELDING INSPECTOR WHICH ARE APPROVED BY THE BUILDING OFFICIAL.
6. WELDING SHALL CONFORM THE LATEST EDITION OF AWS D1.1 AND SHALL USE EITHER THE SHIELDED OR FLUX CORE METHODS. ELECTRODES USED SHALL BE E70XX, E71-T8 OR E70-T6. ALL WELDING SHALL BE PERFORMED BY QUALIFIED AND CERTIFIED WELDERS.
7. ALL FABRICATIONS SHALL BE DONE IN A SHOP OF AN APPROVED AND LICENSED FABRICATOR BY AISC AND/OR LOCAL JURISDICTION. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
8. NON-SHRINK GROUT BENEATH COLUMN BASES OR BEARING PLATES SHALL BE 5000 PSI(MIN.) NON-SHRINK SHALL BE INSTALLED IMMEDIATELY AFTER COLUMN IS PLUMBED. CONTRACTOR SHALL NOT LOAD COLUMN ANCHOR BOLTS UNDER PLACEMENT OF NON-SHRINK GROUT WITHOUT TAKING APPROPRIATE MEASURES TO PREVENT BUCKLING OF ANCHOR BOLTS UNDER CONSTRUCTION LOADS.
9. WELDS IDENTIFIED AS REQUIRING CONTINUOUS OR PERIODIC INSPECTIONS NEED NOT TO HAVE CONTINUOUS SPECIAL INSPECTION WHEN THE WELDING IS PERFORMED IN AN APPROVED FABRICATOR'S SHOP. FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH CBC SECTION 1704.2.
10. ALL FULL PENETRATION GROOVE WELDS FOR MOMENT CONNECTIONS SHALL BE ULTRASONICALLY INSPECTED BY AN APPROVED TESTING AGENCY AND SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1, SECTIONS 5 & 6.
11. STEEL FABRICATOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS AND COORDINATE WITH MECHANICAL DRAWINGS AND SUB-CONTRACTOR FOR SIZE, LOCATION OF ALL MECHANICAL UNITS AND OPENINGS.
12. ALL MISC. FILLET WELDS NOT NOTED, INCLUDING THOSE FOR STIFFENERS, MISC. PLATES, ETC. SHALL BE PER AISC 360, TABLE J2.4.
13. WELDED MEMBERS AND CONNECTIONS IN THE SEISMIC LOAD RESISTING SYSTEM SHALL BE SUBJECT TO AWS D1.8 REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTION:

1. CONTINUOUS AND PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE WORK AS DESCRIBED IN IBC/CBC CHAPTER 17, SEE INSPECTION SCHEDULE BELOW, ONLY CHECKED ITEMS ARE REQUIRED.
2. APPROVAL BY THE INSPECTOR DOES NOT MEAN APPROVAL OF FAILURE TO COMPLY WITH THE PLANS OR SPECIFICATIONS, ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE STRUCTURAL ENGINEER FOR INTERPRETATION OR CLARIFICATION.
3. SPECIAL INSPECTION PER AISC 360 / AISC 341 IS REQUIRED FOR ALL STRUCTURAL STEEL WELDING, BOLTING.
4. STRUCTURAL WOOD, PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEARWALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM, INCLUDING WOOD SHEARWALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS, AND HOLD-DOWNS, EXCEPTION: SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEARWALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM, WHERE THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER. INSPECTIONS SHALL BE PERFORMED BEFORE COVERING.
5. CONTRACTOR RESPONSIBLE FOR CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THIS STATEMENT OF SPECIAL INSPECTION SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH A SYSTEM OR COMPONENT PER SEC 1704.4.
6. WHERE FABRICATION OF MEMBERS AND ASSEMBLIES IS PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED BY THIS SECTION, UNLESS THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE OF VERIFYING APPROVAL OF FABRICATOR.
7. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED INDIVIDUAL WHO WILL DEMONSTRATE COMPETENCE, AND KNOWLEDGE TO THE BUILDING OFFICIAL, FOR THE SPECIFIC TYPE OF SPECIAL INSPECTION REQUIREMENT REQUIRED PER SCHEDULE BELOW.
8. WOOD SPECIAL INSPECTIONS SHALL BE PER CBC SECTION 1705.5.
9. SPECIAL INSPECTIONS FOR WIND AND SEISMIC RESISTANCE SHALL BE PER SECTION 1705.12 AND 1705.13 RESPECTIVELY.

SUBMITTALS AND SHOP DRAWINGS

1. PREFABRICATED OR SPECIALTY ITEMS AND THEIR COMPONENTS, WHICH ARE INDICATED BY THE STRUCTURAL DRAWINGS TO BE DESIGNED BY OTHERS, MAY BE SUBMITTED TO THE ARCHITECT AND/OR E.O.R. FOR REVIEW AS A DEFERRED SUBMITTAL PROVIDED THAT SUCH SUBMITTAL IS AUTHORIZED BY THE BUILDING DEPARTMENT. DEFERRED SUBMITTALS REQUIRED TO BE SUBMITTED TO THE E.O.R. SHALL INCLUDE BUT NOT BE LIMITED TO:
2. ALL DEFERRED SUBMITTALS SHALL INCLUDE CALCULATIONS AND DRAWINGS PREPARED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND STAMPED BY AN APPROPRIATELY LICENSED PROFESSIONAL ENGINEER. SUBMITTALS SHALL SHOW LOCATION AND MAGNITUDE OF LOADS, SIZE AND CONFIGURATIONS OF MEMBERS, AND COMPATIBILITY WITH THE PRIMARY STRUCTURAL SYSTEM.
3. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS, SHOP DRAWINGS ARE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. DESIGN ACCURACY OF SUCH PRODUCT, DIMENSIONS AND QUANTITY OF THE PRODUCT IS NOT REVIEWED BY E.O.R. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY.
4. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. ENGINEERING SYSTEM SOLUTIONS SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS.
5. SHOP DRAWINGS SHALL REFERENCE DATE AND DELTA (IF ANY) OF CONTRACT DRAWINGS.

STATEMENT OF SPECIAL INSPECTIONS
(ONLY INDICATED ITEMS ARE REQUIRED)

REQD(?)	INSPECTION ITEMS	SPECIAL INSPECTORS (NAME, PHONE#, REGISTRATION#)
	STRUCTURAL STEEL (1705.2.1)	
	STEEL FRAME JOINT DETAILS	
	COLD-FORMED STEEL DECK (1705.2.3)	
	OPEN-WEB STEEL JOISTS AND JOISTS GIRDERS (1705.2.4)	
	REINFORCING STEEL AND PRE-STRESSING STEEL TENDONS	
	SHOTCRETE (CURING TEMPERATURE, DESIGN MIX, PLACEMENT, STRENGTH ETC. PER TABLE 1705.3)	
	COLD-FORMED STEEL TRUSSES SPANNING >= 60 FT (1705.2.5)	
	CONCRETE CONSTRUCTION (DESIGN MIX, FORMWORK, PLACEMENT, ETC. PER TABLE 1705.3) (SEE 1705.3 EXCEPTIONS)	
	STRUCTURAL WELDING/REBAR WELDING	
	ALL MASONRY CONSTRUCTION (1705.4)	
	WOOD FOR HIGH LOAD DIAPHRAGMS (1705.5.1)	
	METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING >=60 FT (1705.5.2)	
	SOILS (EXCAVATION, FILL, ETC. PER 1705.6) (SEE 1705.6 EXCEPTIONS)	
	DRIVEN PILES PER 1705.7	
	CAST IN PLACE PILES PER 1705.8	
	HELICAL PILE FOUNDATIONS PER 1705.9	
	ERECTION OF PRE- CAST CONCRETE MEMBERS	
	BOLTS INSTALLED IN CONCRETE	
	HIGH STRENGTH BOLTING/MATERIAL VERIFICATION	
	WOOD DIAPHRAGM AND SHEAR WALLS*	
YES	EPOXY POST INSTALLED ANCHORS	

*: FOR STRUCTURAL OBSERVATION OF WOOD DIAPHRAGMS AND SHEAR WALLS, CONTACT E.O.R. FOR SCHEDULE.

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

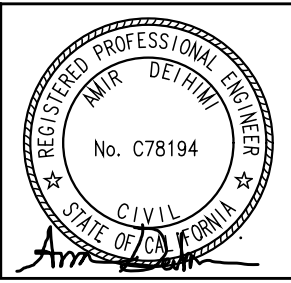


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REVISIONS

NO.	DATE	BY	DESCRIPTION	APPROV.

UNDER THE SUPERVISION OF:



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DESIGNED BY: M.T.
DRAWN BY: M.T.
CHECKED BY: S.W. DATE:01/04/2026

CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER REMODEL

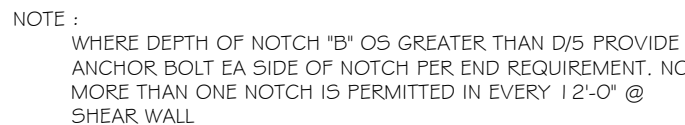
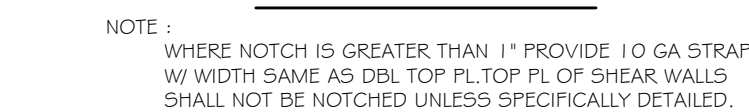
115 S Taylor Ave, Montebello,CA 90640

GENERAL NOTES & REQUIREMENTS

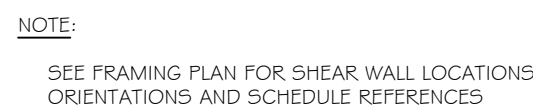
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S-O.11

REBAR TENSION SPACING LENGTH (PROVIDED MASONRY COVER, CLEAR BAR SPACING AND TRANSVERSE REINFORCEMENT ARE IN COMPLIANCE WITH ACI 530-13, SECTION 9.3.3.3.)									
fy (psi)	fm (psi)	BAR SIZE							
		SPACING LENGTH IN INCHES							
		3	4	5	6	7	8	9	
60000	1500	19	34	45	54	63	72	81	
	2000	16	30	45	54	63	72	81	
	2500	16	26	41	54	63	72	81	
	3000	16	24	36	54	63	72	81	

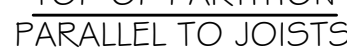


4	TYPICAL JOIST HEADOUT DETAIL
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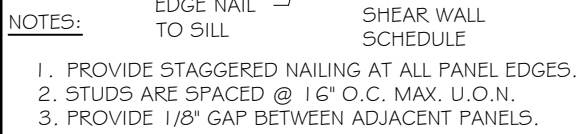
NOTCH SCHEDULE			
NOTCH/BORE % OF STUDS	2 x 4	2 x 6	2 x 8
25%	7/8"	1-3/8"	1-3/4"
40%	1-3/8"	2-1/8"	2-1/8"
60%	2"	3-1/4"	4-1/4"

NOTES:	% OF STUD5	
1. NOTCHING AND BORING SHOULD NOT OCCUR IN SAME STUD SECTION	25%	7/8"
2. NO MORE THAN TWO SUCCESSIVE DOUBLE STUDS MAY HAVE 60% MAX BORING HOLES	40%	1-3/8"
	60%	2"



1. NAILS SHALL BE DRIVEN TIGHT BUT SHALL NOT FRACTURE SURFACE OF SHEATHING.
2. PLYWOOD OSB DECKES SHALL CONTAIN NOT LESS THAN 8 SQ. FT. NAILER BE LESS THAN 2"-0" WIDE.
3. MAXIMUM UNSUPPORTED SHEATHING TO BE 24".
4. FRAMING AT ADJOINING PANEL EDGE SHALL BE 3" NOMINAL OR WIDER AND NAILS AT ALL PANEL EDGES SHALL BE STAGG, WHERE PANEL EDGE NAILING IS SPECIFIED AT 2 1/2" O.C. OR LESS.
5. ALL PANEL EDGES OF THE FLOOR SHEATHING SHALL HAVE ADJACENT T & G JOINTS OR SHALL BE SUPPORTED BY BULK.
6. PER IDGBC TABLE 404 & 403 FOOTNOTE D.
7. DIAHRAM BOUNDARY SHALL BE SUPPORTED BY FRAMING MEMBERS WITH BOUNDARY NAILING.

FULL SIZE — 1" — EDGE NAIL TO TOP PLATES
STAGGER NAILS



	SHEAR WALL FRAMING ELEVATION
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7	STUD NOTCHING/BORING LIMITS
---	-----------------------------

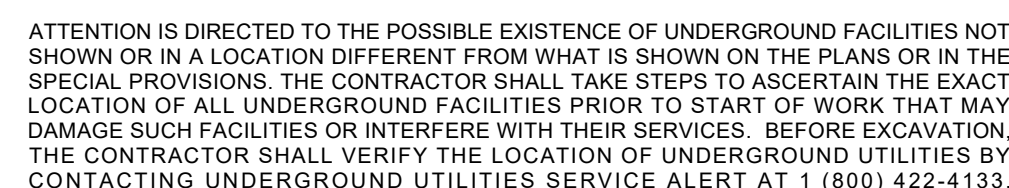


1. INSTALL SOLE PLATE ANCHORAGE AS SHOWN AND AT SPACING INDICATED IN WOOD SHEARWALL BASE CONNECTION SCHEDULE.
2. STAGGER ANCHORS AT DOUBLE SIDE OF SHEARWALL



1. D = DEPTH OF JOIST OR BEAM
DI = STUD WIDTH
L = CLEAR SPAN
2. PERDRILL CORNERS OF NOTCHES
3. NOTCH MAY OCCUR TOP OR BOTTOM, NOT BOTH.
4. NOTCHES AND HOLES ARE NOT ALLOWED IN CANTILEVER PORTION OF JOISTS.
5. MAX. ALLOWED IS A COMBINATION OF TWO NOTCHES AND/OR HOLES IN 1/3 SPAN

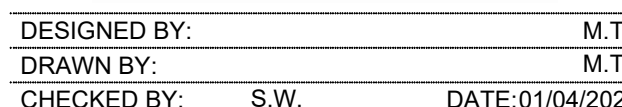
	SHEAR WALL FRAMING ELEVATION
--	------------------------------



UNDER THE SUPERVISION OF:

REGISTERED PROFESSIONAL ENGINEER
AMIR DETHM
No. C78194
CIVIL
STATE OF CALIFORNIA

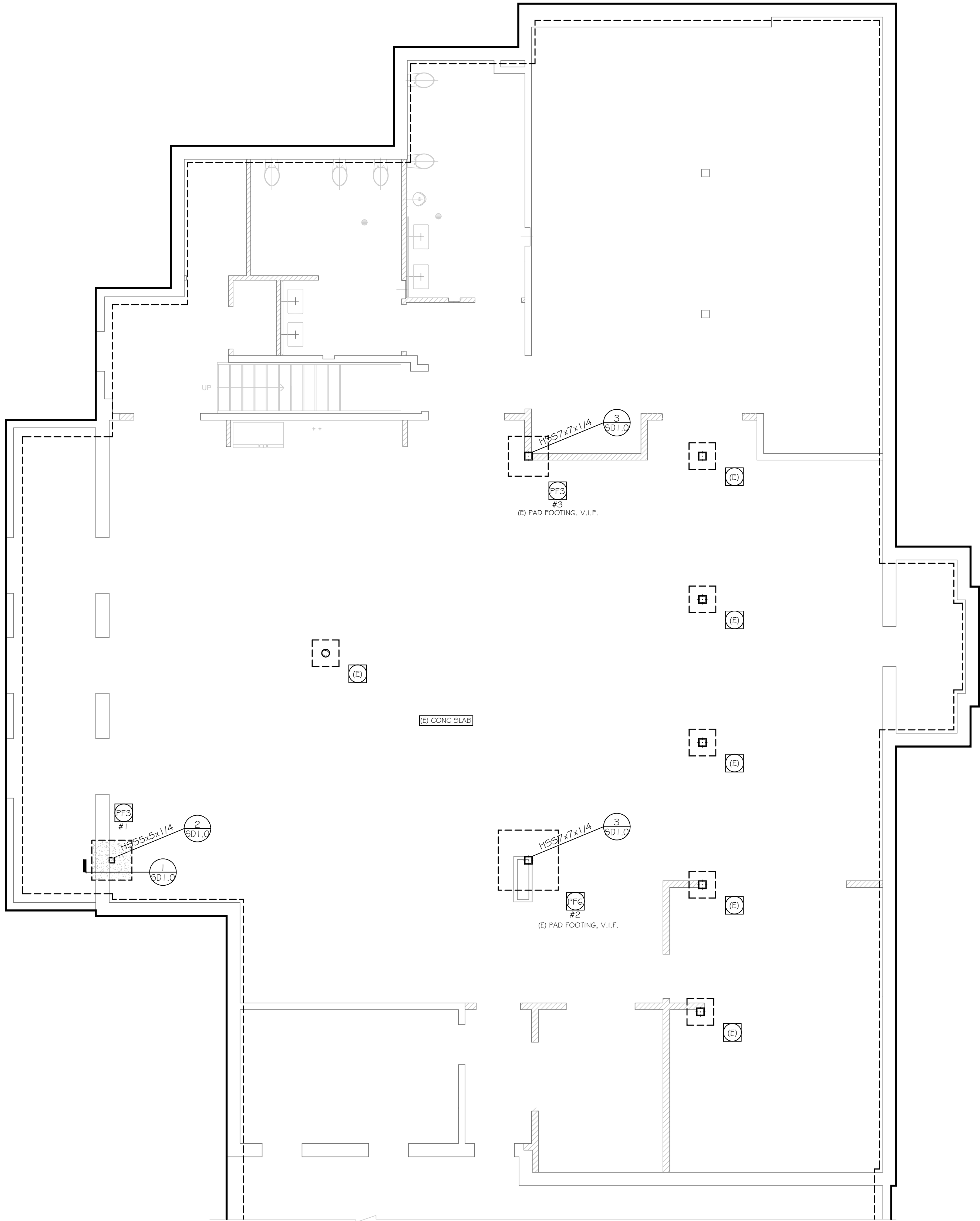
Amir Dethm



SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
TYPICAL DETAILS

Sheet Number:

S-0.20



FOUNDATION PLAN

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

FOUNDATION NOTES

1. REFER TO SHEET S-2.0 FOR MORE INFORMATION.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PREFABRICATED SHEAR WALLS AND MATCH TOP PLATE HEIGHT AND WALL WIDTH AND NOTIFY ENGINEER OF RECORD IF DIFFERENT THAN PLANS.
3. TOP OF ALL EXTERIOR FOOTING, GRADE BEAM FOOTING, PAD FOOTING, OR FLAG POLE FOOTING TO BE MIN. 8" BELOW FINISH GRADE.
4. FOR NON-SHEAR WALLS, MASAMASAP MUDSILL ANCHORS CAN BE USED IN LIEU OF ANCHOR BOLTS WITH END DISTANCE OF 4" MIN. PER ESR #2555.
5. FOR DOUBLE SHEAR PANEL TYPES SW3, SW4, SW5 USE MIN. 3X6 SILL PLATES U.N.O.

LEGEND

- | | | | |
|--|---|--|---------------------|
| | DENOTES EXISTING FOOTING | | DENOTES NEW FOOTING |
| | DENOTES EXISTING PAD | | DENOTES NEW PAD |
| | DENOTES PAD NUMBER PER SCHEDULE
DENOTES PAD NUMBER IN CALCULATIONS | | |
| | DENOTES DETAIL NUMBER
DENOTES DETAIL SHEET NUMBER | | |
| | DENOTES HOLDOWN PER SCHEDULE | | |
| | DENOTES SHEAR PANEL LENGTH
DENOTES PANEL TYPE, REFER TO SHEARWALL SCHEDULE | | |
| | DENOTES SLAB STEP PER ARCH. (VERIFY PRIOR TO CONSTRUCTION) | | |
| | DENOTES POST OR TRIMMER AS NOTED | | |

FOOTING SCHEDULE

SYMBOL	PAD SIZE	REINFORCEMENT
	3'-0" SQ. x 18" THICK	(4) #4 E.W.
	4'-6" SQ. x 18" THICK	(6) #4 E.W.

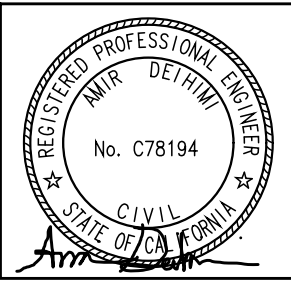


UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153.

NO.	DATE	BY	REVISIONS DESCRIPTION	APPROV.

UNDER THE SUPERVISION OF:



INFRASTRUCTURE
ARCHITECTS

www.iaarchitects.com
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Irvine, CA 92618
949.227.8777

DESIGNED BY: M.T.
DRAWN BY: M.T.
CHECKED BY: S.W. DATE: 01/04/2026

CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
FOUNDATION PLAN

Sheet Number:

S-2.0

FRAMING NOTES

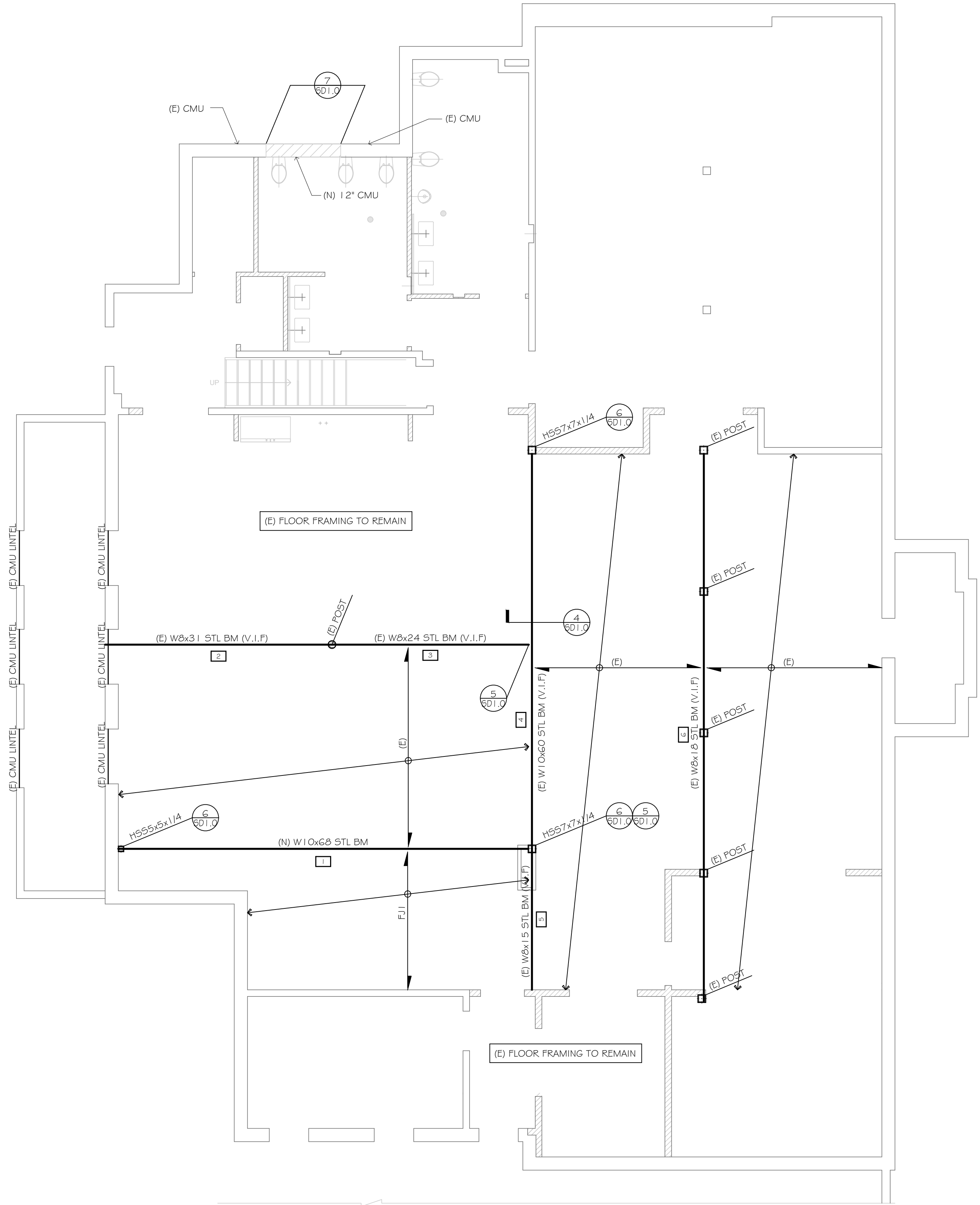
1. REFER TO SHEET S-2.0 FOR MORE INFORMATION.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PREFABRICATED SHEAR WALLS AND MATCH TOP PLATE HEIGHT AND WALL WIDTH AND NOTIFY ENGINEER OF RECORD IF DIFFERENT THAN PLANS.
3. USP CONNECTORS CAN BE USED IN LIEU OF SIMPSON STRONG TIE IN THIS PROJECT. CONTACT E.O.R. FOR CONVERSION TABLE OR SUBMIT SHOP DRAWINGS TO E.O.R. FOR REVIEW AND APPROVAL.
4. USE USP "TTL" HANGERS FOR CONNECTION OF I-JOISTS TO OTHER FRAMING MEMBERS (U.N.O.) AND "JUS" HANGERS FOR CONNECTION OF SOLID JOISTS.
5. USE ST6224 STRAP FOR THE TOP PLATES SPLICE AT ALL FRAMING LEVELS (3B/5D2.0), UNO ON PLANS.

LEGEND

- X- DENOTES DROP BEAM OR HEADER PER PLAN
- X DENOTES FLUSH BEAM PER PLAN
- X DENOTES BEAM NUMBER, REFER TO E.O.R. CALCULATIONS
- DENOTES POST OR TRIMMER AS NOTED
- ⊗ DENOTES POST OR TRIMMER FROM FLOOR ABOVE
- X→ DENOTES DIRECTION OF FRAMING MEMBER PER FRAMING SCHEDULE
- ⊗ DENOTES KEY NOTE NUMBER
- X DENOTES DETAIL NUMBER
- SDX DENOTES DETAIL SHEET NUMBER
- ===== DENOTES BEARING WALL
- ⌋⌋ DENOTES FRAMING ZONE DIVISION

FRAMING SCHEDULE

MARK	MEMBER TYPE
FJ1	1 3/4" x 9 1/2" LVL FLOOR JOISTS @ 16" O.C.
(E)	EXISTING FRAMING



FLOOR FRAMING PLAN

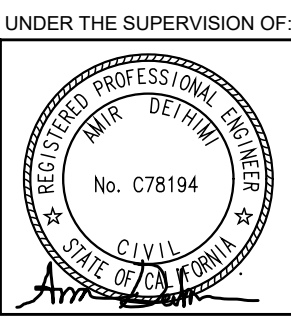
SCALE : 3/16" = 1'-0"



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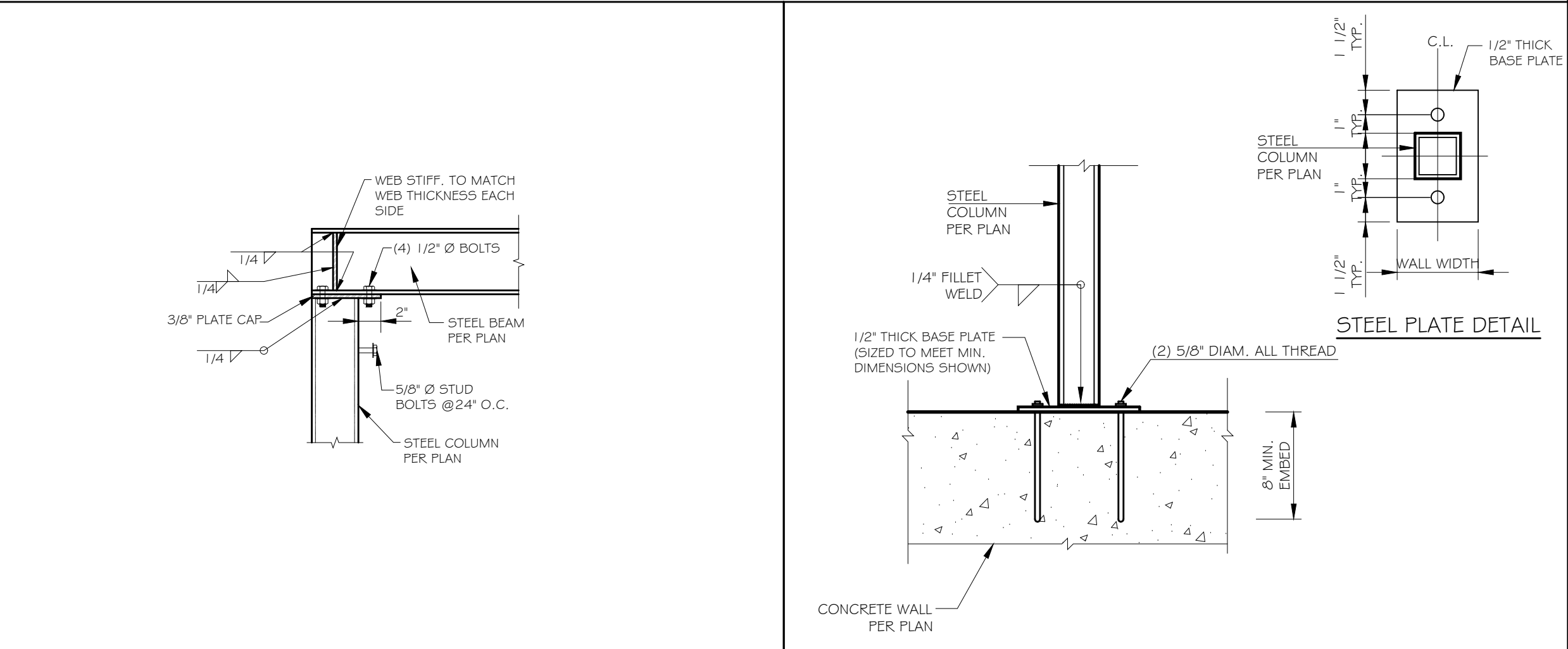
CITY OF MONTEBELLO

Department of Public Works

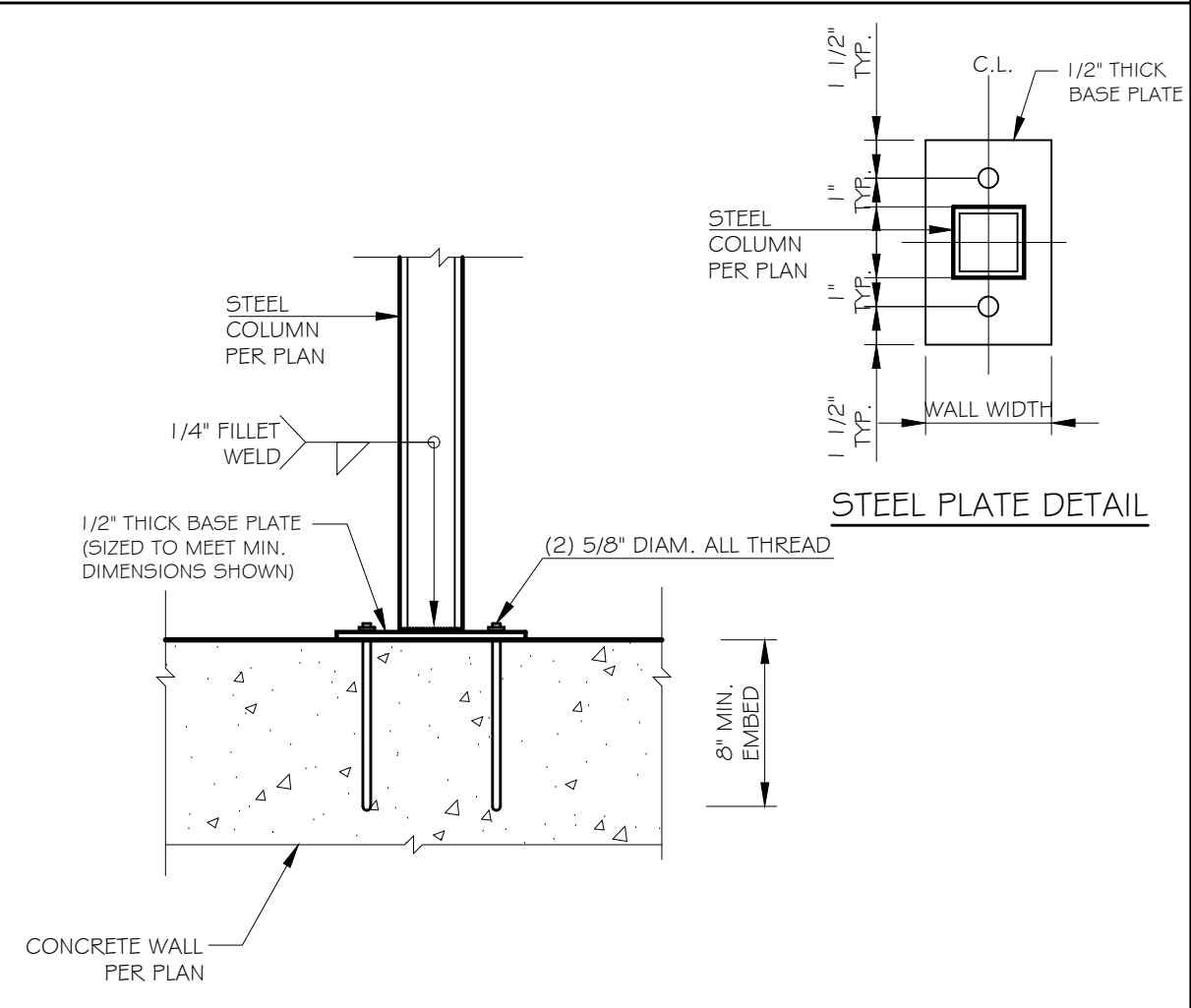
SENIOR CENTER REMODEL
115 S Taylor Ave, Montebello, CA 90640
FRAMING PLAN

Sheet Number:

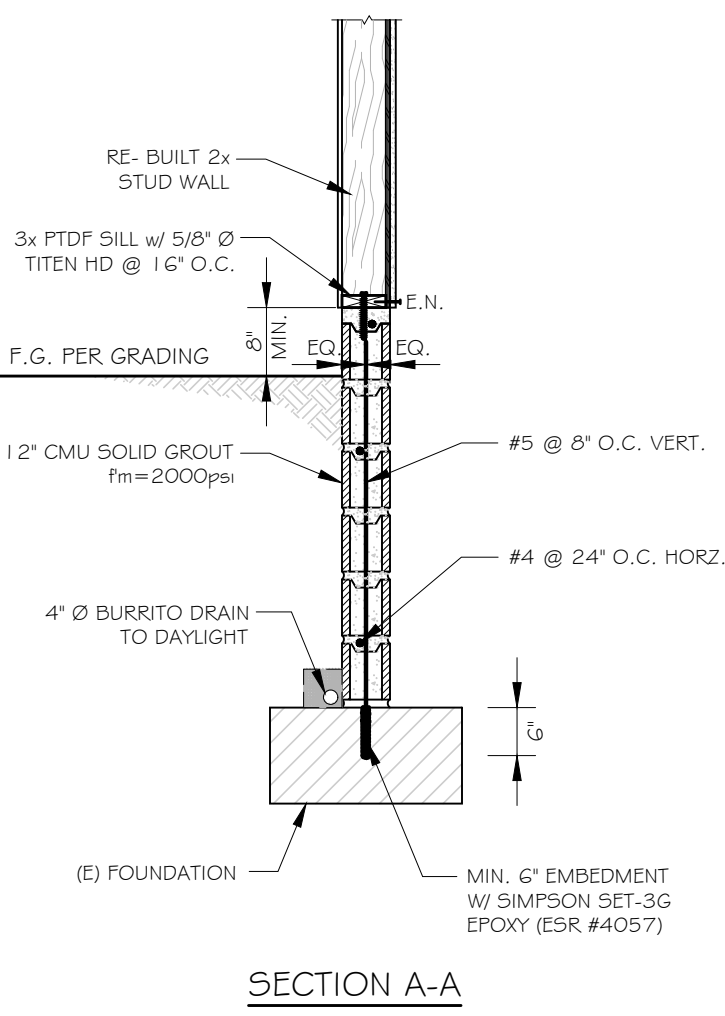
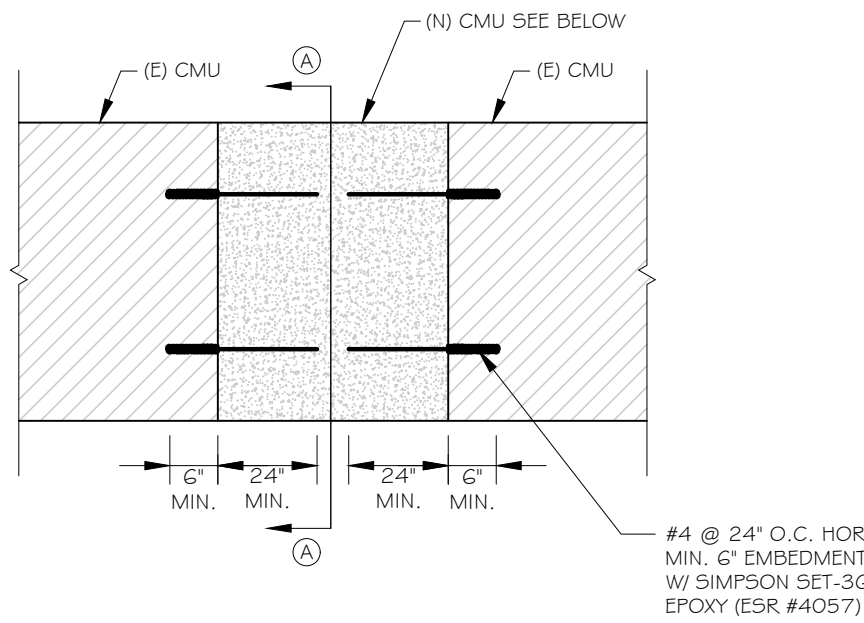
S-2.0



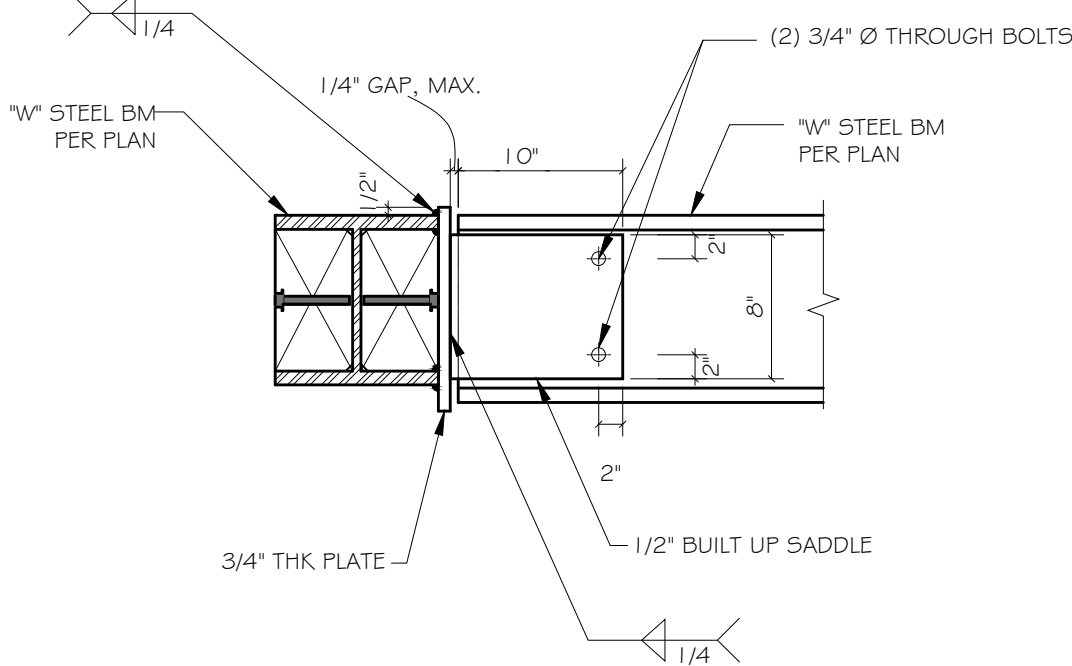
6 STEEL BEAM TO STEEL COLUMN



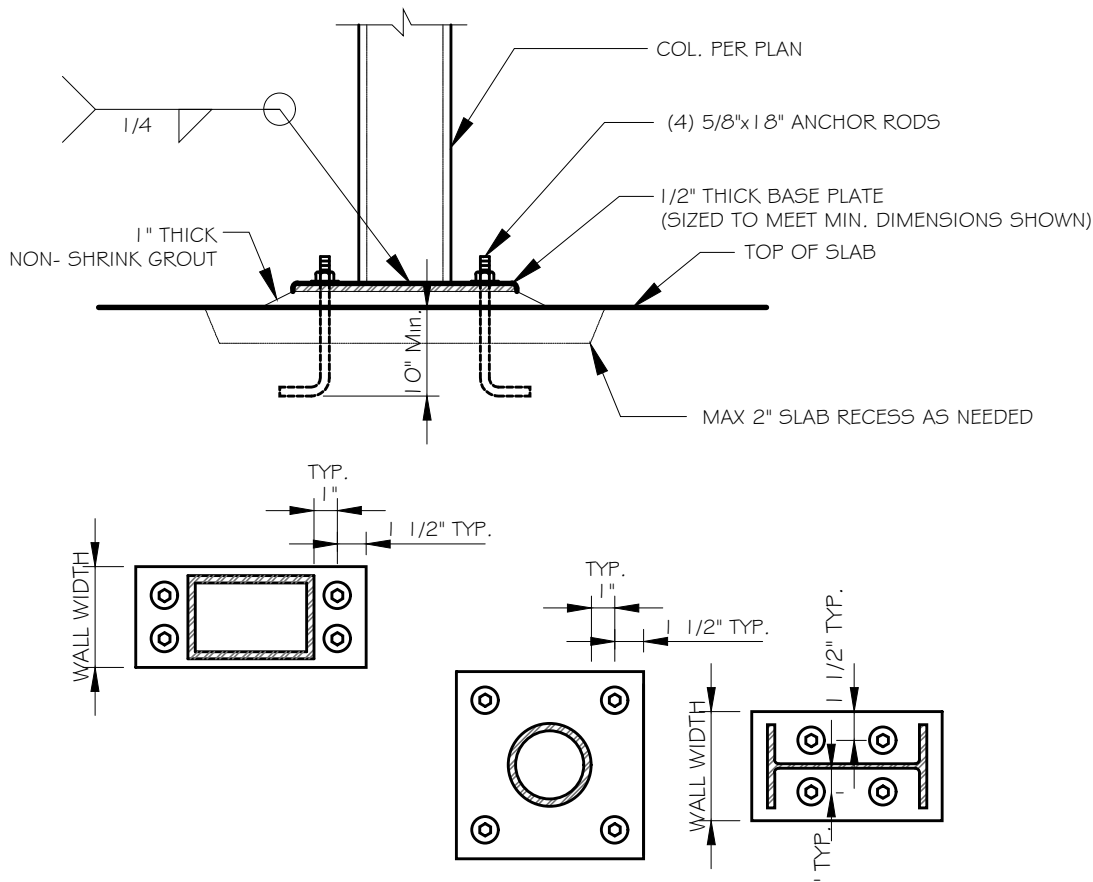
3 CONNECTION DETAIL



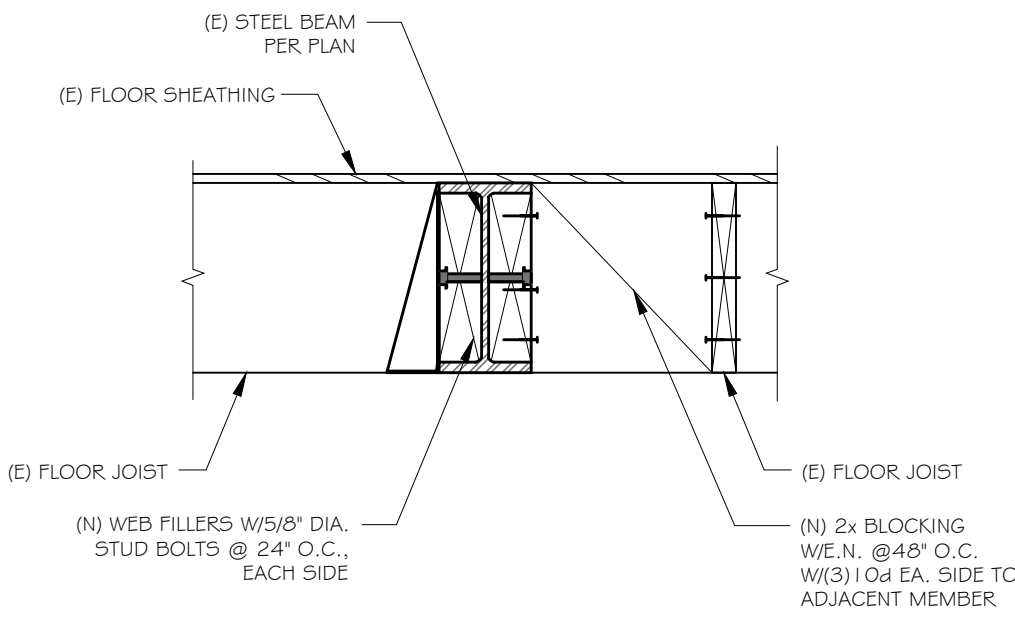
7 CMU WALL DETAIL



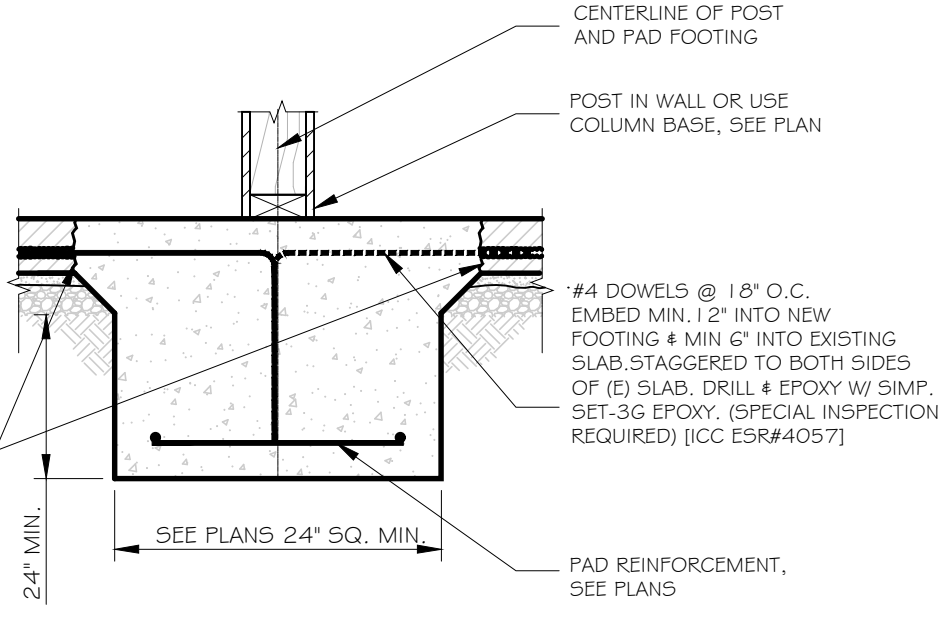
5 CONNECTION DETAIL



2 BASE PLATE DETAIL



4 CONNECTION DETAIL



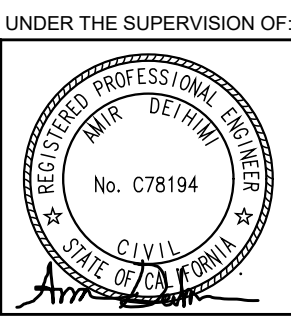
1 ISOLATED PAD FOOTING



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CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER REMODEL

115 S Taylor Ave, Montebello, CA 90640

STRUCTURAL DETAILS

Sheet Number:

SD1.0

HVAC NOTES AND SPECIFICATIONS

SECTION 1: SCOPE OF WORK

- (1) EXISTING 7.5 TON ROOFTOP UNIT TO BE REMAIN FOR MULTI PURPOSE ROOM.
- (1) NEW 5 TON HEAT PUMP AIR HANDLER FOR GYM.
- (1) NEW 2 TON HEAT PUMP AIR HANDLER FOR COMPUTER POOL.
- (1) NEW EXHAUSE FAN ON THE ROOF FOR RESTROOMS & JANITOR CLOSET
- DUCT WORK, ELBOWS, FITTINGS, & DUCT INSULATION ENTIRELY.
- DIFFUSERS, REGISTERS, AND GRILLES.
- HVAC CONTROL SYSTEMS.
- TESTING AND BALANCING.

SECTION 2: FEES, PERMITS & INSPECTIONS

- CONTRACTOR MUST PAY FEES AND OBTAIN PERMITS, LICENSES, INSPECTIONS,ETC, AS REQUIRED BY ANY LEGALLY CONSTITUTE AUTHORITY.
- CONTRACTOR SHALL NOT MAKE HIS WORK COVERED OR CLOSED UNTIL THE WORK HAS BEEN INSPECTED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION. ANY EXPENSES FOR ADDITIONAL WORK DUE TO THE VIOLATION OF THIS REQUIREMENT WILL BE PAID BY THE CONTRACTOR
- THIS DOCUMENT IS NOT FOR BID OR CONSTRUCTION UNTIL THE PLAN HAS BEEN REVIEWED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION AND THE PERMIT IS OBTAINED. NO COMPENSATION WILL BE MADE FOR ADDITIONAL WORK DUE TO THE VIOLATION OF THIS REQUIREMENT.

SECTION 3: GENERAL REQUIREMENTS

- ANY EXISTING CONDITIONS ARE BASED ON LIMITED FIELD VERIFICATION. CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE TENANT.
- ALL CONTRACTORS SHALL REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH DEMOLITION PRIOR TO BIDDING AND START OF WORK. CONTRACTOR IS RESPONSIBLE FOR DEMO OF ALL EXISTING ITEMS, AS REQUIRED, FOR INSTALLATION/CONSTRUCTION OF NEW WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXTRA COSTS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR RESOLUTION. NO EXCEPTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL UTILITY RUNS, UNDERGROUND AND ABOVE GROUND PIPING AND/OR OTHER IMPROVEMENTS LOCATED ON THE PREMISES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL COSTS RELATING TO THE RELOCATION OF, DAMAGE TO, REPAIR OF ANY EXISTING UTILITY RUNS AND/OR IMPROVEMENTS WHICH ARE DAMAGED AS A RESULT OF WORK IN OR AROUND THE PREMISES.
- THE MECHANICAL CONTRACTOR SHALL INSPECT AND TEST RUN ALL EXISTING UNITS AT THE START OF CONSTRUCTION AND INFORM THE ARCHITECT OF ANY NECESSARY REPAIRS FOR APPROVAL IN A TIMELY MANNER TO NOT DELAY THE OPENING DATE.
- ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE PER BUILDING CODE REQUIREMENTS OR APPLICABLE MANUFACTURER INSTALLATION REQUIREMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENTS AS REQUIRED TO CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS AND MAKE ALL EQUIPMENT REQUIRING MAINTENANCE OR REPAIR ACCESSIBLE.
- ALL EQUIPMENT FURNISHED SHALL FIT THE SPACE AVAILABLE WITH CONNECTIONS IN THE REQUIRED LOCATIONS AND WITH ADEQUATE SPACE FOR OPERATING AND SERVICING. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE MANNER AND METHOD OF THE INSTALLATION WHILE THE SPECIFICATIONS AND EQUIPMENT LIST DENOTE THE TYPE AND QUALITY OF MATERIAL AND WORKMANSHIP TO BE USED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT WHOSE DECISION SHALL BE FINAL. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR AFTER AWARD OF THE CONTRACT.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE LATEST FEDERAL, STATE AND LOCAL CODES [NPPA, UBC, UMC AND LOCAL BODIES HAVING JURISDICTION]. APPLICABLE CODE: CMC 2022 CALIFORNIA MECHANICAL CODE, CGBC 2022 CALIFORNIA ENERGY CODE, CEC2022 CALIFORNIA ELECTRICAL CODE.
- THE CONTRACTOR SHALL COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF ALL EQUIPMENT MAY BE PROPERLY COORDINATED. K.1) DISCONNECT SWITCHES & LINE VOLTAGE CONNECTIONS (BY ELECTRICAL) K.2) ALL LINE VOLTAGE WIRING AND CONDUIT (BY ELECTRICAL) K.3) CONDENSATE PIPING (PLUMBING) .
- ALL ROOFING WORK SHALL BE PERFORMED BY OWNER'S APPROVED ROOFING CONTRACTOR.
- DISPOSE OF ALL EQUIPMENT NOT REUSED AS A PART OF THE NEW WORK AS DIRECTED BY THE OWNER.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES WITH 3" HIGH WEATHERPROOF VINYL LETTERS.
- ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE(3) FEET ABOVE THE OUTSIDE-AIR INTAKES FOR HVAC UNITS.

- MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD RATING NOT GREATER THAN TWENTY-FIVE(25) AND A SMOKE DEVELOPED RATING NOT GREATER THAN FOUR HUNDRED FIFTY(450) WHEN TESTED AS A COMPOSITE PER APPLICABLE TESTING STANDARD.
- AFTER INSTALLING WALL, CEILING, OR FLOOR INSULATION, THE INSTALLER SHALL MAKE AVAILABLE TO THE ENFORCEMENT AGENCY OR POST IN A CONSPICUOUS LOCATION IN THE BUILDING, A CERTIFICATE SIGNED BY THE INSTALLER STATING THAT THE INSTALLATION IS CONSISTENT WITH THE PLANS AND SPECIFICATIONS DESCRIBED IN SEC 10.103(A)2A. THE CERTIFICATE SHALL ALSO STATE THE MANUFACTURER'S NAME, MATERIAL IDENTIFICATION, AND THE INSTALLED R-VALUE.
- INSTALL DUCT INSULATION ONLY AFTER DUCTWORK HAS BEEN INSPECTED AND APPROVED.
- REGISTERS, GRILLES, AND DIFFUSERS SHALL BE INSTALLED ONLY AFTER ALL CEILINGS AND WALLS ARE FINISHED INCLUDING FINAL PAINTING. CEILING MOUNTED UNITS SHALL BE INSTALLED WITH RIMS TIGHT AGAINST CEILING. WALL MOUNTED UNITS SHALL BE INSTALLED AT LEAST 6 INCHES BELOW THE CEILING UNLESS OTHERWISE NOTED. DAMPERS PROVIDED WITH DIFFUSERS AND REGISTERS SHALL NOT BE USED FOR SYSTEM BALANCING. INSIDE OF DUCT, BEHIND SEE-THROUGH REGISTERS AND GRILLES SHALL BE PAINTED BLACK.
- ROUND SHEET METAL DUCTS SUSPENDED IN THE AIR SHOULD BE SUPPORTED BY HANGERS AT LEAST EVERY 10 FEET. FLEXIBLE DUCTS SUSPENDED IN THE AIR SHOULD BE SUPPORTED AT LEAST EVERY 4 FEET BY STRAPS THAT ARE AT LEAST 1-1/2" TO 1-3/4" INCHES WIDE. AND THEY SHOULD NOT SAG MORE THAN 1/2" FOR EACH FOOT OF DISTANCE BETWEEN THE SUPPORTS. STRAPS USED ON FLEXIBLE DUCTS SHOULD NOT CONSTRICT THE INNER DIAMETER OF THE DUCT OR CUT THE OUTER JACKET.
- DUCT SLEEVES AND PREPARED OPENINGS SHALL BE PROVIDED WHERE DUCTS PENETRATE FLOORS, WALLS, CEILINGS OR ROOFS, AND SHALL BE INSTALLED DURING CONSTRUCTION OF THE FLOOR, WALL, CEILING OR ROOF. MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION OF ALL DUCT PENETRATIONS OF STRUCTURE WITH GENERAL CONTRACTOR.
- DUCT SLEEVES SHALL BE FABRICATED FROM MINIMUM 20 GAUGE GALVANIZED SHEET STEEL. SLEEVE SHALL HAVE ONE(1) INCH CLEARANCE BETWEEN THE DUCT AND THE SLEEVE, OR ONE(1) INCH CLEARANCE BETWEEN THE INSULATION AND THE SLEEVE FOR INSULATED DUCTS. DUCT SLEEVES EMBEDDED IN CONCRETE SHALL BE CONSTRUCTED OF 1/4 INCH THICK CARBON STEEL PLATE, AND SHALL BE WELDED IN ACCORDANCE WITH AWS D1.1.
- DEMAND CONTROL VENTILATION DEVICES (CO2 SENSORS) SHALL BE INSTALLED IN ACCORDANCE WITH CMC. 121(C)4.

SECTION 4: PRODUCTS

- THERMOSTAT SHALL BE INSTALLED WITH 7-DAY PROGRAMMABLE AUTO-CHANGE OVER FEATURE. MOUNTING HEIGHT IS 3 TO 4 FEET ABOVE FINISHED FLOOR.
- ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED TO, BUILDING CAVITIES, MECHANICAL CLOSETS, AIR-HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS, SHALL BE INSTALLED, SEALED AND INSULATED TO MEET THE REQUIREMENTS OF CHAPTER 6 OF THE CALIFORNIA MECHANICAL CODE. SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8, UNLESS NOTED OTHERWISE. INSULATION IS NOT REQUIRED ON LINED DUCTS AND DUCTS EXPOSED TO CONDITIONED SPACE. PROVIDE RFI TO ENGINEER BEFORE CLASSIFYING THE SPACE AS CONDITIONED SPACE. NO COMPENSATION WILL BE MADE IF THE CONTRACTOR FAILS TO VERIFY.
- DUCT PLENUM SHALL BE GALVANIZED STEEL DUCT. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-GABRIC SYSTEMS, OR TAPS. TAPS AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL181A OR UL181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAP IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. [IECC 2003-803.2.8]
- FLEXIBLE DUCTWORK SHALL BE IN ACCORDANCE WITH UL181 AND NFPA 90A AND NFPA 90B. ALL TAKEOFFS FROM MAIN AND BRANCH DUCT SHALL BE 45 TAPS TAPS WITH VOLUME DAMPERS AS SHOWN ON THE DRAWINGS. GLASS-FLEX TYPE DUCT MAY BE USED AT ENTRANCE TO DIFFUSERS BUT MUST BE NO GREATER THAN 5'-0" IN LENGTH.
- DUCT SUPPORTS AND HANGERS: PROVIDE HANGERS AND SUPPORTS OF STEEL SHAPES AND RODS CONFORMING TO ASTM A36/A36M, GALVANIZED IN ACCORDANCE WITH ASTM A123. HARDWARE FOR HANGERS AND SUPPORTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153/A153M. HANGERS AND SUPPORTS SHALL BE FABRICATED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND SMACNA HVAC SYSTEMS DUCT DESIGN.
- BUILDING ATTACHMENT: CONCRETE INSERTS, POWER-ACTUATED FASTENERS, OR STRUCTURAL STEEL FASTENERS APPROPRIATE FOR BUILDING MATERIALS. DO NOT USE POWDER-ACTUATED CONCRETE FASTENERS FOR LIGHTWEIGHT AGGREGATE CONCRETES OR FOR SLABS LESS THAN 4 INCHES THICK.
- STRAPS AND ROD SIZES: CONFORM WITH TABLE 4-1 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, FOR SHEET STEEL WIDTH AND GAUGE AND STEEL ROD DIAMETERS.
- DUCT ATTACHMENTS: SHEET METAL SCREWS, BLIND RIVETS, OR SELF-DRILLING, SELF-TAPPING METAL SCREWS; COMPATIBLE WITH DUCT MATERIALS.

- VOLUME DAMPERS: PROVIDE VOLUME DAMPERS IN DUCTS CONSTRUCTED OF 22 GAUGE GALVANIZED FOR DUCTS SMALLER THAN 11 INCHES; 20 GAUGE FOR DUCTS SMALLER THAN 21 INCHES; AND 16 GAUGE FOR DUCTS LARGER THAN 21 INCHES. PROVIDE LOCKING QUADRANTS AS REQUIRED. MANUALLY ADJUSTABLE BALANCING DAMPERS SHALL BE PROVIDED TO SUPPLY, RETURN AND EXHAUST DUCTS AT POINTS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS AND IN BRANCH DUCT TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS. 1. DAMPER AXLES SHALL BE CONTINUOUS SQUARE RODS NOT SMALLER THAN 3/8-INCH, WITH MACHINED ENDS AND BEARING AT BOTH ENDS. 2. SINGLE-BLADE DAMPER SHALL BE PROVIDED FOR DUCT SIZES UP TO 18 INCH; MULTI BLADE DAMPERS OF OPPOSED BLADE PATTERN SHALL BE PROVIDED FOR COST SIZE LARGER THAN 18 INCH.
- T-BAR CEILING SU T-BAR CEILING RETURN DIFFUSER: KRUEGER MODEL 6690 OR APPROVED EQUAL.
- DUCT HEATER: WHERE ELECTRICAL HEATER ARE INSTALLED IN AIR DUCTS, THE DUCT SHALL BE INSULATED WITH NONCOMBUSTIBLE INSULATION EXTENDING IN EACH DIRECTION FROM THE HEATER. DISTANCE SHALL BE AS RECOMMENDED BY THE HEATER MANUFACTURER.
- LINED EXPOSED EXTERIOR DUCTWORK SHALL BE 2" THICK, 1.5PCF DENSITY LINING. DUCT SIZE SHOWN ON PLAN SHALL REFER TO OUTER DIMENSIONS UNLESS SPECIFIED OTHERWISE.
- VOLUME DAMPER MUST BE INSTALLED AT BRANCH TAKE-OFF FROM MAIN SUPPLY DUCT. PROVIDE YOUNG REGULATOR CABLES FOR ADJUSTMENT OF VOLUME DAMPERS IN HARD LID CEILING WHERE ACCESS PANELS ARE NOT PROVIDED.

SECTION 5: EQUIPMENT SUBMITTALS

SUBMITTALS FOR MECHANICAL EQUIPMENTS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR APPROVAL BEFORE ORDERING SUCH EQUIPMENTS. NO EXCEPTION.

SECTION 6: TESTING

- AFTER COMPLETION OF WORK, TESTS ON THE HVAC SYSTEMS, INCLUDING A DUCT LEAKAGE TEST, AND ON AIR BALANCE PERFORMANCE ARE REQUIRED. THE AIR QUALITY RESULTS SHOULD CONFORM WITH THE VOLUME SHOWN ON THE PLAN. PROVIDE ALL NECESSARY TESTING EQUIPMENTS AND LABORS AT NO COST TO THE OWNER.
- THE TESTED AIR QUALITY SHOULD BE WITHIN 5% OF THE DESIGN VALUE INDICATED ON PLANS. NOTIFY ENGINEER IMMEDIATELY IF AIR QUALITY IS OUT OF THE RANGE. NO EXCEPTION.

SECTION 7: OPERATING INSTRUCTIONS

- THE BUILDER SHALL PROVIDE THE BUILDING OWNER OR PERSON(S) RESPONSIBLE FOR BUILDING MAINTENANCE (IN CASE OF MULTI-TENANT OR CENTRALLY OPERATED BUILDINGS) AT OCCUPANCY THE FOLLOWING: 1)OPERATING INFORMATION: THE APPROPRIATE CERTIFICATE(S) OF COMPLIANCE AND A LIST OF THE FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES INSTALLED IN THE BUILDING AND INSTRUCTIONS ON HOW TO OPERATE THEM EFFICIENTLY. 2) MAINTENANCE INFORMATION: REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL MAY BE LIMITED TO IDENTIFYING THE OPERATION AND MAINTENANCE MANUAL. 3) VENTILATION INFORMATION: A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.
- CONTRACTOR SHOULD PREPARE AT LEAST THREE SETS MANUALS, COVERING 1. OIL AND LUBRICATION INSTRUCTIONS 2. PARTS SCHEDULE AND REPLACEMENT INSTRUCTIONS 3. AIR FLOW AND AIR BALANCE REPORT.

SECTION 8: WARRANTY

- THE CONTRACTOR SHALL PROVIDE OWNER WITH A WRITTEN MINIMUM TWO (2) YEAR MANUFACTURING WARRANTY ON ALL HVAC EQUIPMENT PROVIDED AND/OR INSTALLED. THE WARRANTY SHALL INCLUDE ALL LABOR, MATERIALS, AND THREE (3) ROUTING SERVICES WITH FILTER CHANGES DURING A ONE (1) YEAR PERIOD.

MECHANICAL SYMBOLS LEGEND

DOUBLE LINE DUCT SYMBOLS:

- NEW SHEET METAL DUCTWORK & SIZE
- SUPPLY OR OUTSIDE AIR DUCT
- RETURN AIR DUCT
- DUCTWORK TRANSITION
- SUPPLY DUCT ELBOW UP OR DOWN
- RETURN DUCT ELBOW UP OR DOWN
- DUCT ELBOW WITH FIXED TURNING VANES
- ROUND SPIN-IN WITH DAMPER
- FLEXIBLE DUCT CONNECTION
- FLEXIBLE DUCTWORK

EQUIPMENT:

- ROOF MOUNTED EXHAUST FAN
- CEILING MOUNTED EXHAUST FAN
- ROOFTOP UNIT
- UNIT HEATER
- SUPPLY FAN
- INFRARED HEATER
- RADIANT HEATER
- THERMOSTAT - ELECTRIC
- TEMPERATURE SENSOR
- CARBON MONOXIDE SENSOR
- RTU SMOKE DETECTOR
- HIGH VELOCITY LOW SPEED (HVLS) FAN

ABBREVIATIONS:

- AFF ABOVE FINISHED FLOOR
- BHP BRAKE HORSEPOWER
- BTU BRITISH THERMAL UNIT
- CFM CUBIC FEET PER MINUTE
- DB DRY BULB
- EAT ENTERING AIR TEMPERATURE
- ESP EXTERNAL STATIC PRESSURE
- HZ FREQUENCY
- LAT LEAVING AIR TEMPERATURE
- NC NOISE CRITERIA
- OA OUTSIDE AIR
- PSI POUNDS PER SQUARE INCH
- RA RETURN AIR
- RTU ROOFTOP UNIT
- SA SUPPLY AIR
- TYP TYPICAL
- WC WATER COLUMN
- WB WET BULB

GRILLES/DIFFUSERS:

- SUPPLY DIFFUSER
- SUPPLY DIFFUSER WITH 3-WAY THROW
- SUPPLY DIFFUSER WITH 2-WAY THROW
- SIDEWALL MOUNTED SUPPLY REGISTER
- RETURN GRILLE
- LINEAR DIFFUSER

GENERAL REFERENCES/NOTATIONS:

- MECHANICAL EQUIPMENT DESIGNATION
- DIFFUSER DESIGNATION AND CFM
- NOTE DESIGNATION
- REVISION DESIGNATION

SYMBOLS LEGEND NOTES:
1. REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN IN THIS SCHEDULE, PROVIDED BY THIS CONTRACTOR.
2. NOT ALL SYMBOLS AND/OR ABBREVIATIONS ARE NECESSARILY USED FOR THIS PROJECT.



PROTOTYPE UPDATE 1 FOR 2019

06/13/19

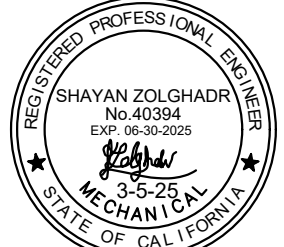
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



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REVISIONS				
NO.	DATE	BY	DESCRIPTION	APPROV.

UNDER THE SUPERVISION OF:



INFRASTRUCTURE ARCHITECTS

iARCH

100 Progress, Suite 110, Irvine, CA 92618
www.infrastructurearchitects.com

DESIGNED BY: iArch
DRAWN BY: iArch
CHECKED BY: iArch DATE:

CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER RENOVATION

115 South Taylor Ave. , Montebello , CA 90640

MECHANICAL SYMBOLS & GENERAL NOTES

Sheet Number:

M1.0

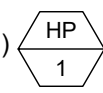
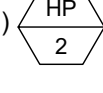
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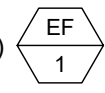
VENTILATION CALCULATION								
OCCUPANCY CATEGORY	FLOOR AREA (SQ.FT.)	*AREA OUTDOOR AIR RATE (CFM/SQ.FT)	AREA OUTDOOR AIR REQUIREMENT(CFM)	PERSONS(QTY.)	*PEOPLE OUTDOOR AIR RATE (CFM/PERSON)	PEOPLE OUTDOOR AIR REQUIREMENT(CFM)	OUTSIDE AIR REQUIREMENT (CFM)	OUTSIDE AIR PROVIDED (CFM)
MULTI PURPOSE ROOM	2280	0.06	136.8	64	5	320.0	456.8	500
GYM	850	0.18	153.0	18	20	360.0	513.0	550
COMPUTER POOL	320	0.06	19.2	9	5	45.0	64.2	100
NOTE: *PER CMC TABLE 402.1							969.8	1150

ROOFTOP UNIT SCHEDULE																				
EQUIPMENT NO.	SERVICE	MANUFACTURER	MODEL	YEAR	AIR FLOW			COOLING			HEATING			ELECTRICAL				DIMENSION	WEIGHT	OPTIONS- ACCESSORIES
					SUPPLY (CFM)	MIN OA (CFM)	E.S.P (IN.W.C)	BTU/HR	NOM. TON	EER	BTU/HR	EFF	GAS	V-P-HZ	FLA	MCA	MOCP	LXWXH(in)	lbs	KEY NOTE NO.
(E) RTU 1	MULTI PURPOSE ROOM	TEMPSTART	PGB090H2LA	1997	3000	500	0.6	85000	7.5	9	16000	0.8	200 CFH @3.5~10IN.WC	460-3-60	19	20.7	25	90X58X44	1095	1,2,3,4,5
NOTES:																				
1-STANDARDS FOR AIR CONDITIONERS AND HEAT PUMPS THAT ARE CONSUMER PRODUCTS, MANUFACTURED ON OR AFTER JANUARY 1, 2023.FOR SPLIT SYSTEM HEAT PUMPS MINIMUM HSPF2 : 7.5 & MINIMUM SEER2:14.3 THIS SYSTEM CONTAINS R-410A REFRIGERANT AND POE OIL.																				
2- AN AIR ECONOMIZER CAPABLE OF MODULATING OUTSIDE-AIR AND RETURN-AIR DAMPERS TO SUPPLY 100 PERCENT OF THE DESIGN SUPPLY AIR QUANTITY AS OUTSIDE AIR AND SHALL INCLUDE A STAND-ALONE OR INTEGRATED FAULT DETECTION AND DIAGNOSTICS (FDD) SYSTEM.																				
3- ALL RECIRCULATED AIR OR OUTDOOR AIR SUPPLIED TO OCCUPABLE SPACES IS FILTERED (MINIMUM MERV 13) BEFORE PASSING THROUGH ANY AIR CONDITIONING COMPONENT.																				
4- EXISTING MICROMETL BRAND FIELD INSTALLED ECONOMIZER WITH FAULT DETECTION AND DIAGNOSTICS, ULTRA LOW LEAK HORIZONTAL AND BAROMETRIC RELIEF.																				
5- TWO STAGE COOLING MODE.																				
6- PROVIDE AND INSTALL A NEW MANUAL OUTSIDE AIR HOOD.																				

AIR HANDLER UNIT SCHEDULE													
EQUIPMENT NO.	SERVICE	MANUFACTURER	MODEL	FLOW RATE	STATIC PRESSURE	LOW/HIGH STAGE	ELECTRICAL			DIMENSION	WEIGH T	OPTIONS- ACCESSORIES	
				CFM	IN. WC	CFM	V-P-HZ	FLA/MCA	MCCP	LXWXH(in)	lbs		
(N) 	GYM	GOODMAN	AMST60DU13	2000	0.5	2000 / 1000	208/240-1-60	6.9/8.6	15	58X24X21	167	FILTER 19.5X20X1 MERV13, SUPPLY 24X12, RETURN 20X18 - AN AIR ECONOMIZER CAPABLE OF MODULATING OUTSIDE-AIR AND RETURN-AIR DAMPERS TO SUPPLY 100 PERCENT OF THE DESIGN SUPPLY AIR QUANTITY AS OUTSIDE AIR AND SHALL INCLUDE A STAND-ALONE OR INTEGRATED FAULT DETECTION AND DIAGNOSTICS (FDD) SYSTEM. 2- ALL RECIRCULATED AIR OR OUTDOOR AIR SUPPLIED TO OCCUPIABLE SPACES IS FILTERED (MINIMUM MERV 13) BEFORE PASSING THROUGH ANY AIR CONDITIONING COMPONENT.	
(N) 	COMPUTER POOL	GOODMAN	AMST24BU13	800	0.5	600 / 900	208/240-1-60	4.6/5.8	15	45X18X21	112	FILTER 16X20X1 MERV13 SUPPLY 16X12 RETURN 20X12	

HEAT PUMP UNIT SCHEDULE													
EQUIPMENT NO.	SERVICE	MANUFACTURER	MODEL	NET COOLING		HEATING	SEER2/HSPF2	ELECTRICAL			DIMENSION	WEIGHT	OPTIONS- ACCESSORIES
				BTU/HR	NOM. TON	BTU/HR		V-P-HZ	MCA	MOCP	LXWXH(in)	lbs	
(N) 	GYM	DAIKIN	DH4SEA 6040*	60,000	5	60,000	14.3 / 7.8	460-3-60	10.4	15	36X36X42	300	NA
(N) 	COMPUTER ROOM	GOODMAN	GLZS4BA 2410*	24000	2	24000	15.2 / 7.8	208/230-1-60	11.2	15	29X29X32	150	NA
NOTES: TO COMPLY WITH CALIFORNIA REGULATIONS, THE HEAT PUMP REFRIGERANT SHOULD BE R-32 OR R-454B, AS THEY MEET THE STATE'S LOW GLOBAL WARMING POTENTIAL (GWP) REQUIREMENTS													

EXHAUST CALCULATION						
OCCUPANCY CATEGORY	FLOOR AREA(SQ.FT.)	*EXHAUST RATE (CFM/SQFT.)	NO OF WATER CLOSET & URINAL	EXHAUST PER PLUMBING FIXTURE(CFM/FIXTURE)	EXHAUST REQUIRMENTS(CFM)	EXHAUST PROVIDED (CFM)
MEN'S RESTROOM	150	0	3	70	210	210
WOMEN'S RESTROOM	150	0	3	70	210	210
JANITOR CLOSET	26	1	0	0	26	30
NOTES: *PER CMC TABLE 403.7						

FAN SCHEDULE									
EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESS. (IN W.G)	MOTOR				OPTION- ACCESSORIES
					WATTS	HP	RPM	VOLT.-PH.-HZ.	
(N) 	WOMEN'S RESTROOM MEN'S RESTROOM JANITOR CLOSET	ROOF	600	0.5	-	1 / 8	1550	115-1-60	GREENHECK G-095D OR EQUAL BACKDRAFT DAMPER CONTROLLED BY OCCUPANCY SENSOR OPERATION WT.=25 LBS

SCHEDULE-AIR DISTRIBUTION										
TAG	DESCRIPTION	MANUFACTURER	SERIES	CFM	DUTY	NECK (INCH)	SIZE	DAMPER	MATERIAL	DESCRIPTION
EG-1	EXHAUST GRILLE	TITUS	55FS	0 ~190	EXHAUST	6X6	NECK PLUS1 3/4" EACH DIRECTION	YES	ALUMINIUM	STAMPED
SD-1	SIDE WALL REGISTER	TITUS	272FL	500 ~ 900	SUPPLY	24X16	NECK PLUS1 3/4" EACH DIRECTION	YES	ALUMINIUM	STAMPED
SD-2	SIDE WALL REGISTER	TITUS	272FL	300 ~ 500	SUPPLY	18X10	NECK PLUS1 3/4" EACH DIRECTION	YES	ALUMINIUM	STAMPED
SD-3	SIDE WALL REGISTER	TITUS	272FL	1300 ~ 1700	SUPPLY	30X16	NECK PLUS1 3/4" EACH DIRECTION	YES	ALUMINIUM	STAMPED
SD-4	SIDE WALL REGISTER	TITUS	272FL	400 ~ 800	SUPPLY	22X10	NECK PLUS1 3/4" EACH DIRECTION	YES	ALUMINIUM	STAMPED
SD-5	SIDE WALL REGISTER	TITUS	272FL	75 ~ 200	SUPPLY	6X6	NECK PLUS1 3/4" EACH DIRECTION	YES	ALUMINIUM	STAMPED
CD-1	CEILING DIFFUSER	TITUS	272FL	75 ~ 200	SUPPLY	12X12	NECK PLUS1 3/4" EACH DIRECTION	YES	ALUMINIUM	STAMPED
RG-1	RETURN GRILLE	TITUS	55FS	2000	RETURN	30X18	NECK PLUS1 3/4" EACH DIRECTION	NO	ALUMINIUM	STAMPED
RG-2	RETURN GRILLE	TITUS	55FS	800	RETURN	18X16	NECK PLUS1 3/4" EACH DIRECTION	NO	ALUMINIUM	STAMPED
RG-1	RETURN GRILLE	TITUS	55FS	3000	RETURN	36X24	NECK PLUS1 3/4" EACH DIRECTION	NO	ALUMINIUM	STAMPED
NOTES: A. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF SOFFIT, CEILING AND/OR SUSPENSION SYSTEM. B. FINISH SHALL BE OF THE TYPE AND COLOR SELECTED BY ARCHITECT. SUBMIT FINISH CHART WITH SHOP DRAWINGS. C. NC<30. D. NECK SIZES TO MATCH DUCT CONNECTION UNLESS NOTED OTHERWISE. SELECTIONS ARE BASED ON PRODUCTIONS BY TITUS . EQUAL PRODUCTS: KRUEGER, METAL-AIRE & PRICE.										

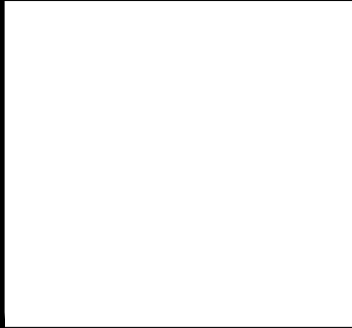
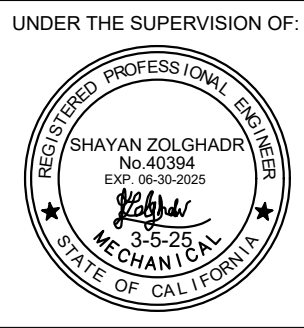


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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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REVISIONS				
NO.	DATE	BY	DESCRIPTION	APPROV.





INFRASTRUCTURE ARCHITECTS

iARCH

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DESIGNED BY: iArch

DRAWN BY: iArch

CHECKED BY: iArch DATE:

CITY OF MONTEBELLO



Department of Public Works

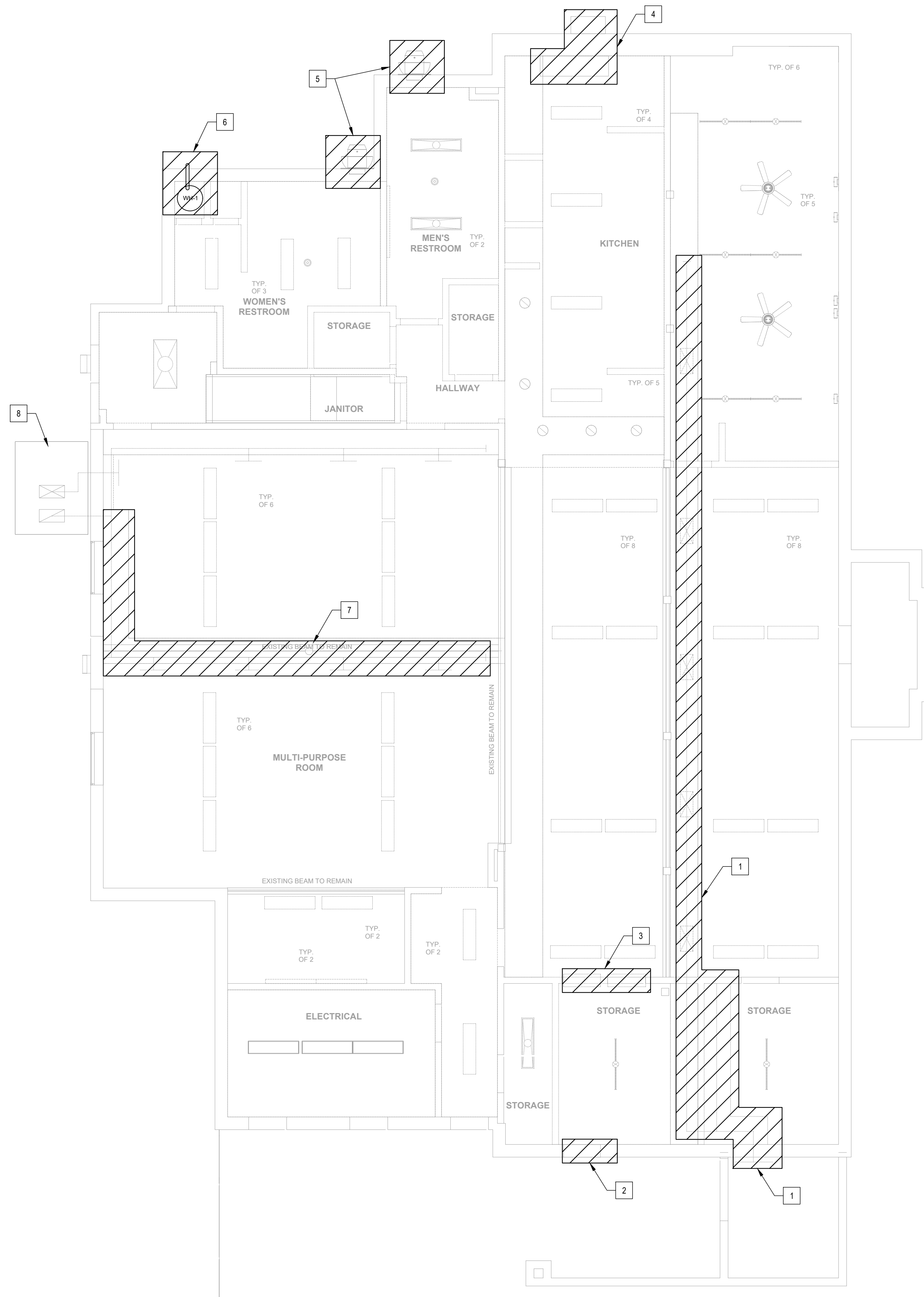
SENIOR CENTER RENOVATION

115 South Taylor Ave. , Montebello , CA 90640

MECHANICAL SCHEDULES

Sheet Number:

M1.1



- MECHANICAL PLAN NOTES**
- 1 REMOVE AND DEMOLISH THE SUPPLY DUCT, REGISTER, AND ALL RELATED ACCESSORIES. REPAIR AND RESTORE THE AREA WHERE THE DUCT PENETRATED THE EXISTING EXTERIOR WALL TO ENSURE PROPER WALL INTEGRITY.
 - 2 REMOVE AND DEMOLISH THE RETURN GRILLE . REPAIR AND RESTORE THE AREA WHERE THE DUCT PENETRATED THE EXISTING EXTERIOR WALL TO ENSURE PROPER WALL INTEGRITY.
 - 3 REMOVE AND DEMOLISH THE TRANSFER GRILLE .
 - 4 REMOVE AND DEMOLISH THE KITCHEN HOOD, EXHAUST DUCT, EXHAUST FAN, AND ALL RELATED ACCESSORIES. REPAIR AND RESTORE THE AREA WHERE THE DUCT PENETRATED THE EXISTING EXTERIOR WALL TO ENSURE PROPER WALL INTEGRITY.
 - 5 REMOVE AND DEMOLISH RESTROOM'S EXHAUST FAN, AND ALL RELATED ACCESSORIES. REPAIR AND RESTORE THE AREA WHERE THE DUCT PENETRATED THE EXISTING EXTERIOR WALL TO ENSURE PROPER WALL INTEGRITY.
 - 6 REMOVE AND DEMOLISH WATER HEATER HEATER'S VENT PIPE, PREPARE THE EXISTING HOLE FOR NEW VENT.
 - 7 REMOVE AND DEMOLISH THE SUPPLY DUCT, REGISTER, AND ALL RELATED ACCESSORIES.
 - 8 RETAIN AND PROTECT THE EXISTING ROOFTOP UNIT IN PLACE. CONTRACTOR TO EVALUATE THE UNIT'S FUNCTIONALITY AND REPORT ANY DEFICIENCIES FOR REPAIR OR MAINTENANCE.

 **01** MECHANICAL REFLECTED CEILING PLAN-DEMO
3/16" = 1'-0"

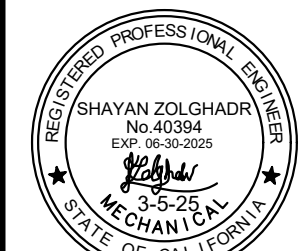


UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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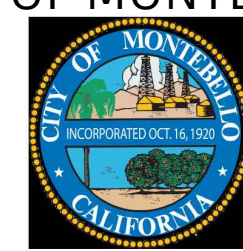
INFRASTRUCTURE ARCHITECTS

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DESIGNED BY: iArch
DRAWN BY: iArch
CHECKED BY: iArch DATE:

CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER RENOVATION

115 South Taylor Ave. , Montebello , CA 90640

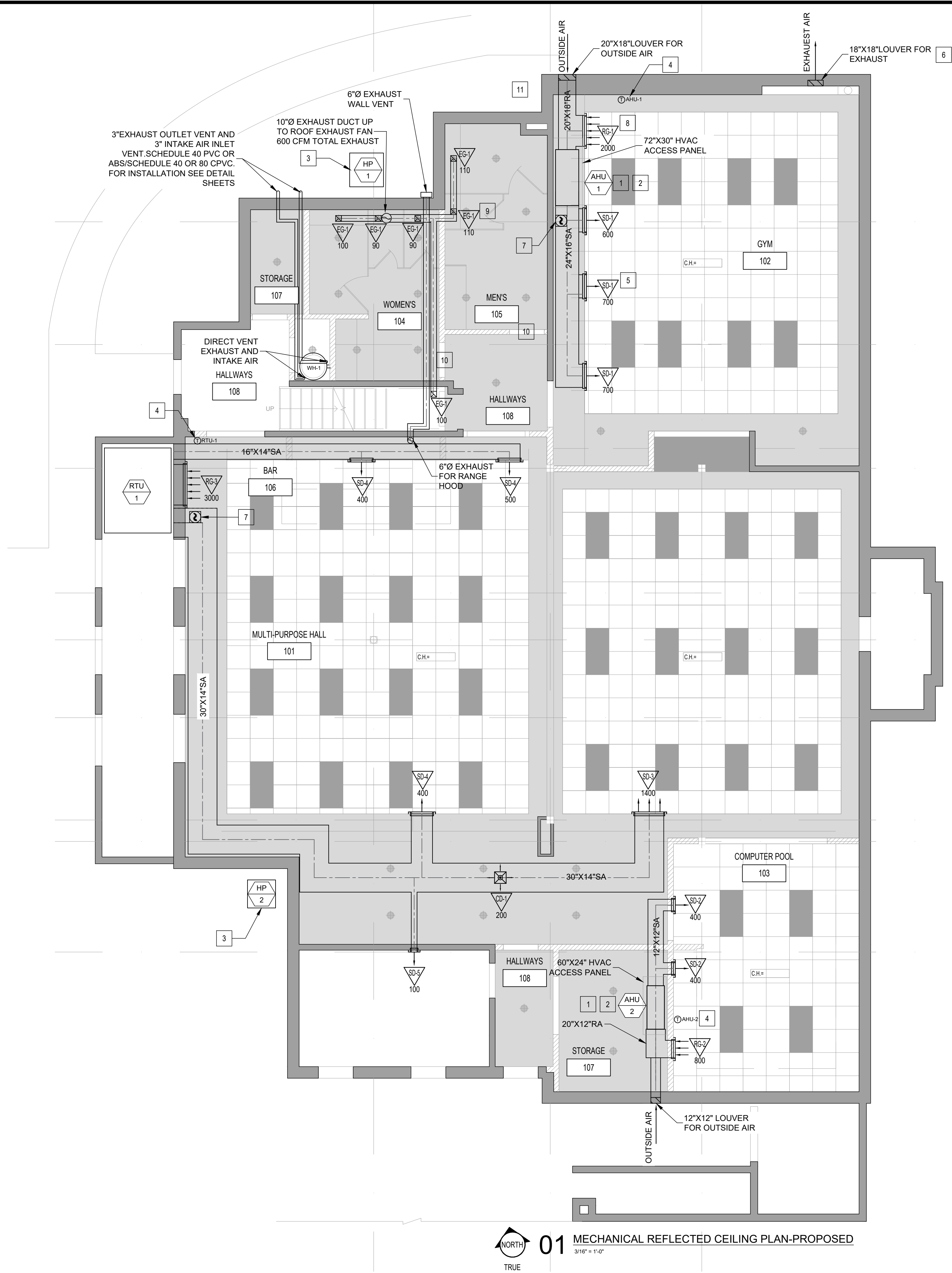
MECHANICAL REFLECTED CEILING PLAN - DEMO

Sheet Number:

M2.0

P.N.: 2.1000.03

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MECHANICAL PLAN NOTES

- 1 PROVIDE AND INSTALL (N) AHU-1 AND (N) AHU-2 UNIT . RELATED HEAT PUMP UNIT SHALL BE LOCATED ON GROUND .
- 2 CONDENSATE FROM AIR-COOLING COILS SHALL BE COLLECTED AND DISCHARGED TO AN APPROVED PLUMBING FIXTURE OR DISPOSAL AREA . WHERE DISCHARGED INTO THE DRAINAGE SYSTEM, EQUIPMENT SHALL DRAIN BY MEANS OF AN INDIRECT WASTE PIPE. THE WASTE PIPE SHALL HAVE A SLOPE OF NOT LESS THAN 1/8 INCH PER FOOT (10.4 MM/M) OR 1 PERCENT SLOPE AND SHALL BE OF APPROVED CORROSION-RESISTANT MATERIAL NOT SMALLER THAN THE OUTLET SIZE IN ACCORDANCE WITH SECTION 310.3 OR SECTION 310.4 FOR AIR-COOLING COILS OR CONDENSING APPLIANCES, RESPECTIVELY. CONDENSATE OR WASTEWATER SHALL NOT DRAIN OVER A PUBLIC WAY.
- 3 PROVIDE AND INSTALL (N) HP-1 AND (N) HP-2, REFRIGERANT PIPING UP TO CORRESPONDING AIR HANDLING UNIT ON . SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATION.
- 4 INSTALL THERMOSTATS (2) AT 40" AFF. THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE TYPE WITH AUTO-CHANGEOVER. OWNER FURNISHED THERMOSTAT FOR ELECTRICAL CONTRACTOR TO INSTALL. INSULATE EXTERIOR WALL BEHIND THERMOSTAT AND CAULK WIRE PENETRATION THROUGH WALL. COORDINATE WITH ELECTRICAL. INSTALL WALL MOUNTED TEMPERATURE SENSOR ADJACENT TO RA GRILLE. REFER TO TEMPERATURE SENSOR MOUNTING DETAIL FOR ADDITIONAL INFORMATION.
- 5 PROVIDE SUPPLY DIFFUSER . MOUNT BOTTOM OF REGISTER AT A MINIMUM OF 8' AFF.T.Y.P.
- 6 PROVIDE BAROMETRIC RELIEF DAMPER FOR PRESSURE BALANCE . MOUNT BOTTOM OF GRILLE AT A MINIMUM OF 8' AFF.
- 7 SUPPLY AIR SMOKE DETECTOR . INTERLOCKED TO SHUT DOWN UNIT UPON DETECTION OF SMOKE. INSTALL ASSOCIATED REMOTE ANNUNCIATOR WITH PIEZO ALARM AND POWER LEDS FOR VISIBLE AND AUDIBLE ALARM SIGNAL, AND VISIBLE TROUBLE SIGNAL.
- 8 PROVIDE RETURN GRILLE . MOUNT BOTTOM OF REGISTER AT A MINIMUM OF 8' AFF.T.Y.P.
- 9 PROVIDE EXHAUST GRILLE . MOUNT BOTTOM OF REGISTER AT A MINIMUM OF 8' AFF.T.Y.P.
- 10 UNDERCUT RESTROOM DOOR 1" FOR TRANSFER AIR.
- 11 10" DUCT UP TO ROOF FROM CORNER OF THE OFFICE 13 ON THE SECOND FLOOR, CONTRACTOR SHOULD COORDINATE WITH SECOND FLOOR'S TENANT TO SEE IF THE NEED TO MOVE THE EXHAUST DUCT TO OTHER PLACE.

MECHANICAL GENERAL NOTES

1- DUCT SYSTEMS USED WITH BLOWER TYPE EQUIPMENT WHICH ARE PORTIONS OF A HEATING, COOLING, ABSORPTION, EVAPORATIVE COOLING OR OUTDOOR AIR VENTILATION SYSTEM SHALL BE SIZED IN ACCORDANCE WITH CHAPTER 17 OF THE CALIFORNIA MECHANICAL CODE.

01 MECHANICAL REFLECTED CEILING PLAN-PROPOSED
3/16" = 1'-0"
NORTH
TRUE



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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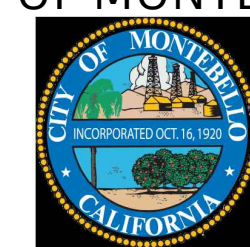
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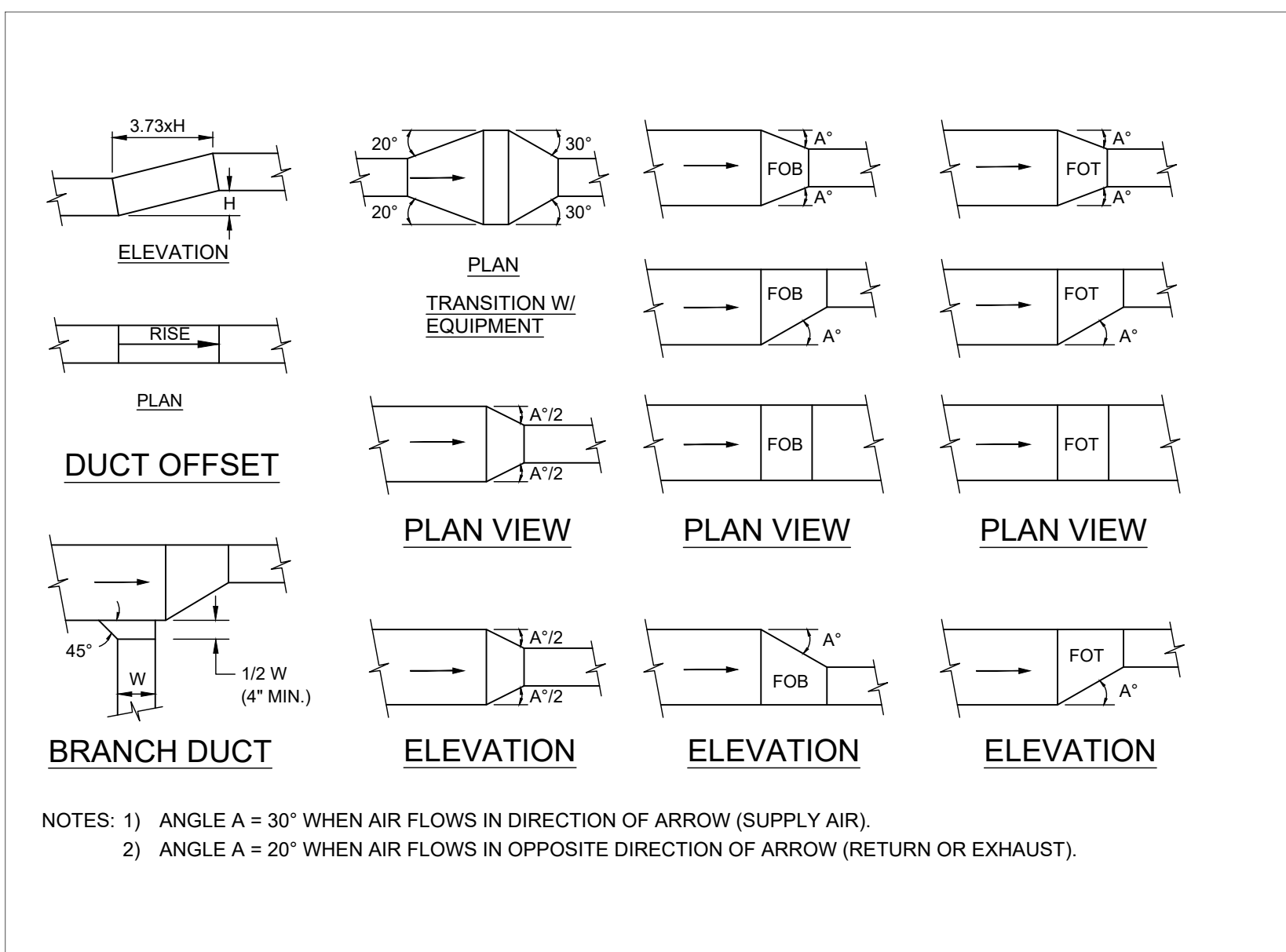
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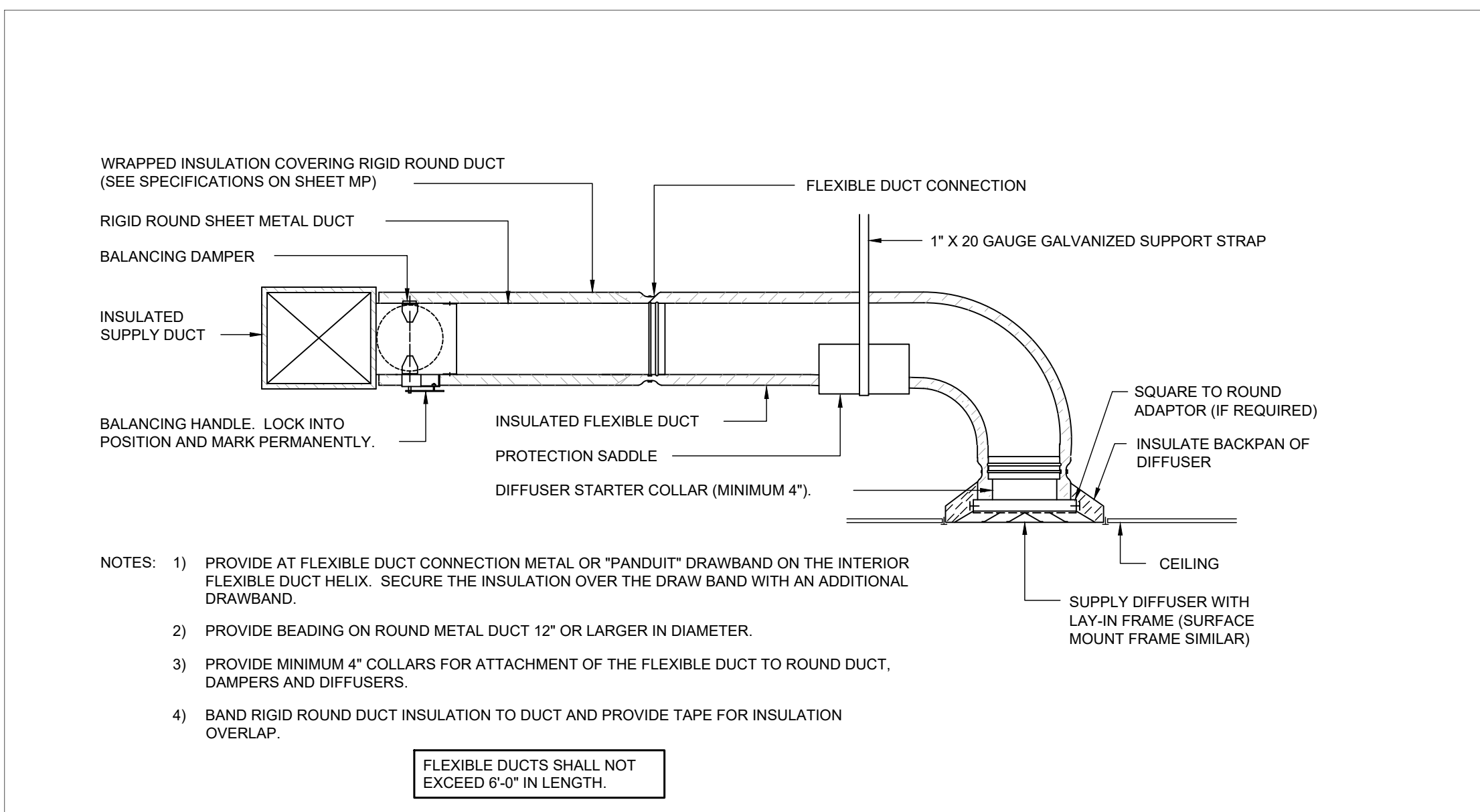
MECHANICAL REFLECTED CEILING PLAN - PROPOSED

Sheet Number:

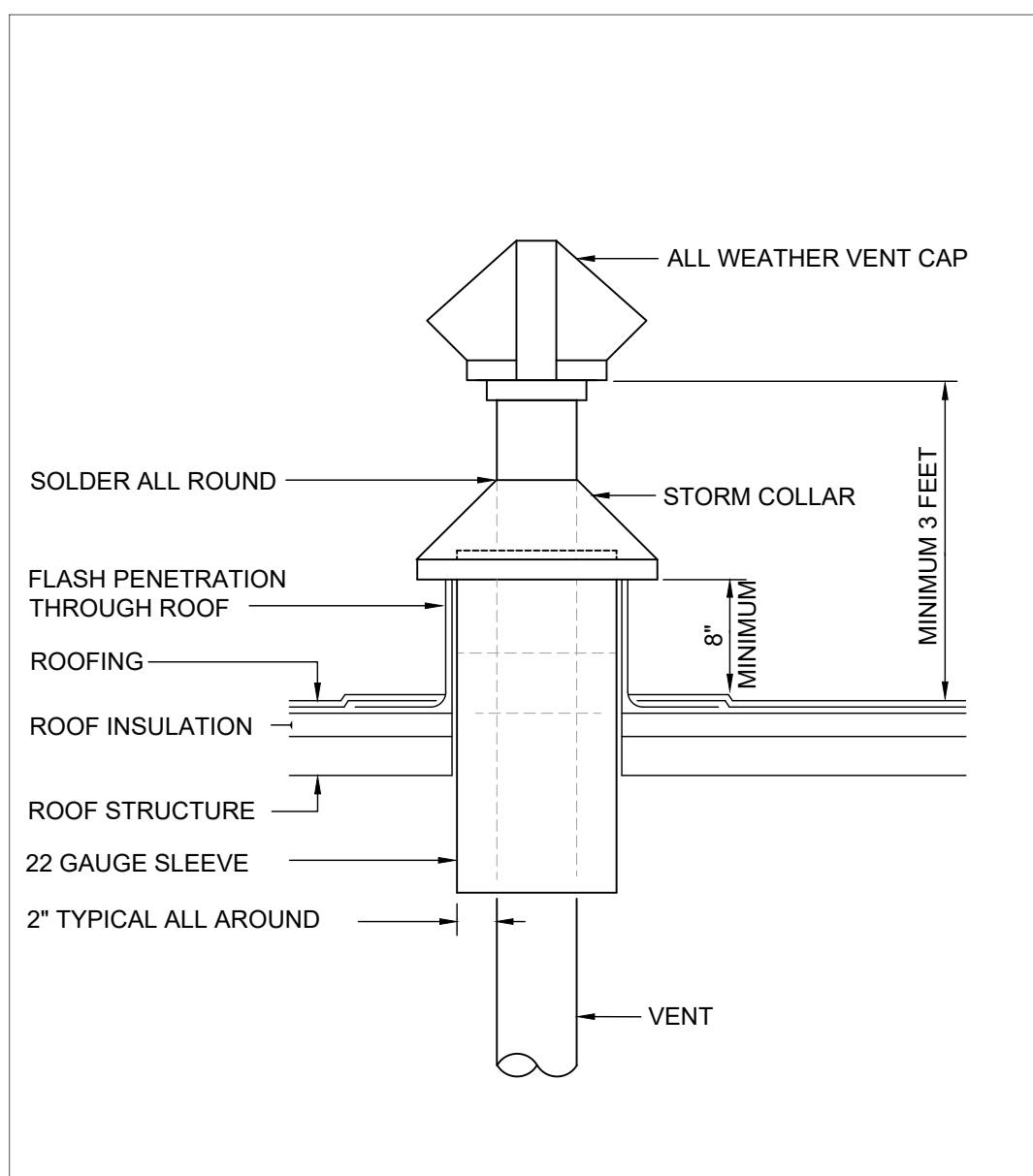
M3.0



01 LOW VELOCITY DUCT FITTINGS DETAIL
REFER TO SHEET M1.0



02 DIFFUSER CONNECTION DETAIL - FLEX DUCT
REFER TO SHEET M1.0



03 VENT THROUGH ROOF DETAIL
REFER TO SHEET M1.0



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SENIOR CENTER RENOVATION

115 South Taylor Ave. , Montebello , CA 90640

MECHANICAL DETAILS

Sheet Number:

M4.0

P.N.: 2.1000.03

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.

Project Name: Montebello Senior Center

Report Page: (Page 1 of 12)

Project Address: 115 SOUTH TAYLOR AVE., MONTEBELLO, CA 90640

Date Prepared: 2025-02-24T18:50:27-05:00

A. GENERAL INFORMATION

01 Project Location (city)	Montebello	04 Total Conditioned Floor Area	3450
02 Climate Zone	9	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	0

• All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☐ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Compliance ID: 276270-0225-0002

Schema Version: rev 20220101

Report Generated: 2025-02-24 15:50:32

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Montebello Senior Center

Report Page: (Page 2 of 12)

Date Prepared: 2025-02-24T18:50:27-05:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08		09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4i	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(i), 160.2, 160.3	AND	Cooling Towers 110.2(e)2		Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND			COMPLIES with Exceptional Conditions

Mandatory Measures Compliance (See Table Q for Details)

COMPLIES

D. EXCEPTIONAL CONDITIONS

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

The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

E. ADDITIONAL REMARKS

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06	07	08	09	10	11
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat					
AHU-1, HP-2	1	Single zone	New/ Addition	Office	☐					

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aai	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available ¹ 140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
AHI-1, HP-1	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (3 phase)	Yes	57,000	60,000	0	43,000	60,000	48600	33,500
AHU-1, HP-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, split (1phase)	Yes	17,800	24,000	0	18,200	24,000	17800	16,300

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STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Montebello Senior Center

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06	07	08	09	10	11
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat					
AHI-1, HP-1	1	Single zone	New/ Addition	School or Classroom	☐					

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
AHI-1, HP-1	<65,000		HSPF	8.2	8.7	SEER	14	15
AHU-1, HP-2	<65,000		HSPF2	7.5	8.7	SEER2	14.3	16

G. PUMPS

This section does not apply to this project.

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Mechanical Systems

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	SF-1(For AHU-1)	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,000	Site Elevation	1,000	Economizer	Differential Enthalpy
01	02	03	04	05	06	07	08	09	10	11					
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)					
SF-1	Supply	1	Economizer Return Damper	100		0.046									
			MERV 13-16 Filter downstream of thermal conditioning equipment	100		0.231	0.277	Manufacturer provided		1					
Supply Fan Base Allowance (watt/cfm)	0.232		Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)	0		Fan System Allowance (kW) ³	1.01	Fan System Electrical Input Power (kW)		1					

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	SF-2(For AHU-2)	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	800	Site Elevation	1,000	Economizer	NA: <=33 kBtu/h cooling
01	02	03	04	05	06	07	08	09	10	11					
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm) ¹	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)					
SF-2	Supply	1	MERV 13-16 Filter downstream of thermal conditioning equipment	100		0.231	0.231	Manufacturer provided		0.95					
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW) ³		Fan System Electrical Input Power (kW)		0.95					

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Mechanical Systems

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H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11
----	----	----	----	----	----	----	----	----	----	----

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H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass
SF-1(For AHU-1)	1	< 8,000	2,000	550	28	No Exemptions Apply	Not Required			
SF-2(For AHU-2)	1	< 8,000	800	100	13	No Exemptions Apply	Not Required			

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
SF-1	<1.00 HP or 0.89 kW	
SF-2	<1.00 HP or 0.89 kW	

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D, 170.2(c)4L or requirements in 141.0(b)2E, 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10
System Name	System Zoning	Conditione d Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)¹, 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12, 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D	Direct Digital Control (DDC) per 120.2
T1,T2 & T-3	Single zone	<= 25,000 ft²	Setback	Occ. Sensor	Auto Timer Switch	DR Tstat per 110.12	Included	NA: Alteration Project	NA: Single Zone

¹FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

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J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1, 120.2(e)3B, 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☒	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☐	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.
----	--------------------------	--

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:

NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

Project Name: Montebello Senior Center

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L. DISTRIBUTION (DUCTWORK and PIPING)

	Complete new duct work	Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18	No	All ductwork is an extension of an existing duct system	
19	No	Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-6	Duct Insulation R-value	
22	No	Ductwork Existing To Remain	
23	No	Duct System Connected To Altered Space Conditioning System	

M. COOLING TOWERS

This section does not apply to this project.

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STATE OF CALIFORNIA

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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4>

Form/Title

NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why 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/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4>

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	T1,T2 & T-3
NRCA-MCH-05-A - Air Economizer Controls	SF-1(For AHU-1)
NRCA-MCH-16-A Supply Air Temperature Reset Controls	T1,T2 & T-3
NRCA-MCH-19-A Occupancy Sensor Controls	T1,T2 & T-3

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

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Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
Compliance with Mandatory Measures documented through MCH	Yes
Mandatory Measures Note Block	Plan sheet or construction document location M5.1

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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-MCH-E

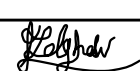
Project Name: Montebello Senior Center

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

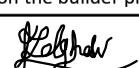
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Shayan Zolghadr	Documentation Author Signature: 
Company:	Signature Date: 2/26/2025
Address:	CEA/HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- 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 designer)
- 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.
- 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 this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be 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 the builder provides to the building owner at occupancy.

Responsible Designer Name: Shayan Zolghadr	Responsible Designer Signature: 
Company:	Date Signed: 2/26/2025
Address:	License: M 40394
City/State/Zip:	Phone:

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CONTACT 811 BEFORE YOU DIG. SAFE DIGGING PARTNER.

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153.

REVISIONS				
NO.	DATE	BY	DESCRIPTION	APPROV.

UNDER THE SUPERVISION OF:



SHAYAN ZOLGHADR
No. 40394
Exp. 06/30/2025
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
MECHANICAL



INFRASTRUCTURE ARCHITECTS

iARCH

100 Progress, Suite 110, Irvine, CA 92618
www.infrastructurearchitects.com

DESIGNED BY:

DRAWN BY:

CHECKED BY: iArch

DATE:

CITY OF MONTEBELLO



Department of Public Works

SENIOR CENTER RENOVATION

115 South Taylor Ave. , Montebello , CA 90640

MECHANICAL TITLE 24

Sheet Number:

M5.1

P.N.: 2.1000.03

CAUTION: IF THIS SHEET IS NOT 24"x36" IT IS A REDUCED PRINT

Space Conditioning Mandatory Measures:

110.2 CERTIFICATION BY MANUFACTURERS ANY SPACE CONDITIONING EQUIPMENT LISTED IN §110.2 SHALL ONLY BE INSTALLED IF CERTIFIED TO THE ENERGY COMMISSION TO MEET ALL APPLICABLE §110.2 REQUIREMENTS.
110.2(a) SPACE CONDITIONING EQUIPMENT EFFICIENCY EQUIPMENT SHALL MEET APPLICABLE EFFICIENCY REQUIREMENTS IN TABLE 110.2-A THROUGH TABLE 110.2-N.
110.2(c) SETBACK THERMOSTATS ALL HEATING OR COOLING SYSTEMS NOT CONTROLLED BY A CENTRAL ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) SHALL HAVE A SETBACK THERMOSTAT WITH CLOCK MECHANISM THAT ALLOWS THE BUILDING OCCUPANT TO PROGRAM THE TEMPERATURE SETPOINTS FOR AT LEAST FOUR PERIODS WITHIN 24 HOURS.
110.5 PILOT LIGHTS PROHIBITED FOR NATURAL GAS EQUIPMENT PILOT LIGHTS ARE PROHIBITED ON NATURAL GAS FAN-TYPE CENTRAL FURNACES, POOL HEATERS, SPA HEATERS, AND FIREPLACES.
110.8(a) INSULATION CERTIFICATION INSTALLED INSULATION SHALL BE CERTIFIED BY THE DEPARTMENT OF CONSUMER AFFAIRS PER TITLE 24, PART 12, CHAPTERS 12-13, ARTICLE 3 "STANDARDS FOR INSULATING MATERIAL."
110.8(b) UREA FORMALDEHYDE INSULATION UREA FORMALDEHYDE INSULATION SHALL NOT BE INSTALLED UNLESS IN EXTERIOR SIDE WALLS WITH A FOUR-MIL-THICK PLASTIC POLYETHYLENE VAPOR RETARDER OR EQUIVALENT PLASTIC SHEATHING VAPOR RETARDER INSTALLED BETWEEN THE UREA FORMALDEHYDE FOAM INSULATION AND THE INTERIOR SPACE.
110.8(c) INSULATING MATERIAL ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CALIFORNIA BUILDING CODE.
110.8(d) DUCTS IF INSULATION IS INSTALLED ON AN EXISTING SPACE-CONDITIONING DUCT, IT SHALL COMPLY WITH SECTION 604.0 OF THE CMC.
120.1(a) GENERAL VENTILATION AND INDOOR AIR QUALITY REQUIREMENTS ALL OCCUPABLE SPACES IN HOTEL/MOTEL AND NONRESIDENTIAL BUILDINGS OTHER THAN HEALTHCARE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF §120.1(a) THROUGH (g). THE REQUIRED OUTDOOR AIR VENTILATION RATE AND AIR-DISTRIBUTION SYSTEM DESIGN SHALL BE CLEARLY IDENTIFIED ON THE PLANS.
120.1(c)2 NATURAL VENTILATION NATURALLY VENTILATED SPACES SHALL BE DESIGNED IN ACCORDANCE WITH 120.1(c)2A THROUGH 120.1(c)2C AND INCLUDE A MECHANICAL VENTILATION SYSTEMS DESIGNED IN ACCORDANCE WITH 120.1(c)3.
120.1(c)3 MECHANICAL VENTILATION OCCUPABLE SPACES SHALL BE VENTILATED WITH A MECHANICAL VENTILATION SYSTEM CAPABLE OF PROVIDING AN OUTDOOR AIRFLOW RATE (V ₂) TO THE ZONE NO LESS THAN EQUATION 120.1-F.
120.1(d) TIMES OF OCCUPANCY MINIMUM OUTDOOR AIR RATE SHALL BE MET AT TIMES WHEN THE SPACE IS USUALLY OCCUPIED IN ACCORDANCE WITH 120.1(c).
120.1(d)2 PRE-OCCUPANCY THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SECTION 120.1(c) OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BUILDING DURING THE 1-HOUR PERIOD IMMEDIATELY BEFORE THE BUILDING IS NORMALLY OCCUPIED.

Space Conditioning Mandatory Measures:

120.1(d)3 REQUIRED DEMAND CONTROL VENTILATION DCV CONTROLS ARE REQUIRED FOR A SPACE WITH A DESIGN OCCUPANCY DENSITY >= 25 PEOPLE/1,000 FT2 IF THE SYSTEM SERVING THE SPACE HAS ONE OR MORE OF THE FOLLOWING • AN AIR ECONOMIZER • MODULATING OUTSIDE AIR CONTROL • DESIGN OUTDOOR AIRFLOW RATE > 3,000 CFM
120.1(f) DESIGN AND CONTROL REQUIREMENTS FOR QUANTITIES OF OUTDOOR AIR 120.1(f)1 ALL MECHANICAL VENTILATION AND SPACE-CONDITIONING SYSTEMS SHALL BE DESIGNED WITH AND HAVE INSTALLED DUCTWORK, DAMPERS, AND CONTROLS TO ALLOW OA RATES TO BE OPERATED AT NO LESS THAN THE LARGER OF: 120.1(c)3 MINIMUMS OR THE RATE REQUIRED FOR MAKE-UP OF EXHAUST SYSTEMS FOR AN EXEMPT OR COVERED PROCESS, CONTROL OF ODORS, OR CONTAMINANT REMOVAL IN A SPACE. 120.1(f)3 MEASURED OA RATES OF CONSTANT VOLUME SYSTEMS SHALL BE TESTED TO CONFIRM THEIR ABILITY TO OPERATE WITHIN 10% OF THE DESIGN MINIMUM OUTSIDE AIR RATE.
120.1(g) AIR CLASSIFICATION AND RECIRCULATION LIMITATIONS AIR CLASSIFICATION AND RECIRCULATION LIMITATIONS OF AIR SHALL BE BASED ON TABLE 120.1-A OR TABLE 120.1-C, AND IN ACCORDANCE WITH 120.1(g)1 THROUGH 4.
120.2(a) THERMOSTAT CONTROLS HEATING AND COOLING SUPPLY TO EACH SPACE-CONDITIONING ZONE OR DWELLING UNIT SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE IN THE ZONE AND MEETS 120.2(b) REQUIREMENTS.
120.2(b) ZONAL THERMOSTAT CONTROLS 120.2(b)4 THERMOSTATIC CONTROLS FOR ALL SINGLE ZONE AIR CONDITIONERS AND HEAT PUMPS SHALL COMPLY WITH THE REQUIREMENTS OF 110.2(c) AND 110.12(a) AND, IF EQUIPPED WITH DDC TO THE ZONE LEVEL WITH THE AUTOMATIC DEMAND SHED CONTROLS OF 110.12(b).
120.2(e)1 AUTOMATIC SHUT-OFF FOR SPACE-CONDITIONING SYSTEMS EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH ONE OF THE FOLLOWING CONTROLS CAPABLE OF AUTOMATICALLY SHUTTING OFF THE SYSTEM DURING PERIODS OF NONUSE: • AUTOMATIC TIME SWITCH CONTROL PER 110.9, WITH ACCESSIBLE MANUAL OVERRIDE ALLOWING SYSTEM OPERATION FOR UP TO 4 HOURS, OR • AN OCCUPANCY SENSOR, OR • A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED.
120.2(e)2 AUTOMATIC RESTART FOR SPACE-CONDITIONING SYSTEMS EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT SHALL AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN: • 120.2(e)2A A SETBACK HEATING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL HEATING, AND • 120.2(e)2B A SETUP COOLING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL COOLING.
120.2(f) DAMPERS FOR AIR SUPPLY AND EXHAUST EQUIPMENT OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE UPON FAN SHUTDOWN.

Space Conditioning Mandatory Measures:

120.2(g) ISOLATION AREA DEVICES EACH SPACE-CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA OF MORE THAN 25,000 FT2 SHALL BE DESIGNED, INSTALLED AND CONTROLLED TO SERVE ISOLATION AREAS. • EACH ZONE, OR COMBINATION OF ZONES <25,000 FT2, SHALL BE A SEPARATE ISOLATION AREA. • EACH ISOLATION AREA SHALL BE PROVIDED WITH ISOLATION DEVICES, SUCH AS VALVES OR DAMPERS THAT ALLOW THE SUPPLY OF HEATING OR COOLING TO BE REDUCED OR SHUT-OFF INDEPENDENTLY OF OTHER ISOLATION AREAS. • EACH ISOLATION AREA SHALL BE CONTROLLED BY A DEVICE MEETING THE REQUIREMENTS OF 120.2(e)1.
120.2(h) AUTOMATIC DEMAND SHED CONTROLS SHALL MEET REQUIREMENTS IN 110.12 110.12(a) DEMAND RESPONSIVE (DR) CONTROL REQUIREMENTS: 1. EITHER CERTIFIED OPENADR 2.0a, OPENADR 2.0b VIRTUAL END NODE (VEN); OR CERTIFIED BY THE MANUFACTURER AS BEING CAPABLE OF RESPONDING TO A DR SIGNAL FROM A CERTIFIED OPENADR 2.0b VIRTUAL END NODE BY AUTOMATICALLY IMPLEMENTING THE CONTROL FUNCTIONS REQUESTED BY THE VIRTUAL END NODE FOR THE EQUIPMENT IT CONTROLS. 2. CAPABLE OF COMMUNICATING USING WI-FI, ZIGBEE, BACNET, ETHERNET, AND/OR HARD-WIRING. 3. MAY INCORPORATE AND USE ADDITIONAL PROTOCOLS BEYOND THOSE SPECIFIED IN 110.12(a)1 AND 2. 4. SHALL CONTINUE TO PERFORM ALL OTHER CONTROL FUNCTIONS PROVIDED BY THE CONTROL WHEN COMMUNICATIONS ARE DISABLED. 5. THERMOSTATS SHALL COMPLY WITH REFERENCE JOINT APPENDIX 5 (IAS) 110.12(b) NONRESIDENTIAL HVAC SYSTEMS WITH DDC TO THE ZONE LEVEL SHALL BE PROGRAMMED TO ALLOW CENTRALIZED DEMAND SHED FOR NON-CRITICAL ZONES. CONTROLS SHALL BE CAPABLE OF: 1. REMOTELY INCREASING THE OPERATING COOLING TEMPERATURE SETPOINTS BY 4 DEGREES OR MORE IN ALL NON-CRITICAL ZONES ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS 2. REMOTELY DECREASING THE OPERATING HEATING TEMPERATURE SETPOINTS BY 4 DEGREES OR MORE IN ALL NON-CRITICAL ZONES ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS 3. REMOTELY RESETTING THE TEMPERATURES IN ALL NON-CRITICAL ZONES TO ORIGINAL OPERATING LEVELS ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS 4. PROVIDING AN ADJUSTABLE RATE OF CHANGE FOR THE TEMPERATURE INCREASE, DECREASE, AND RESET 5. THE FOLLOWING FEATURES: A. DISABLED BY AUTHORIZED FACILITY OPERATORS B. MANUAL CONTROL BY AUTHORIZED FACILITY OPERATORS C. UPON RECEIPT OF A DR SIGNAL, SPACE-CONDITIONING SYSTEMS SHALL CONDUCT A CENTRALIZED DEMAND SHED, AS SPECIFIED IN 110.12(b)1 AND 110.12(b)2, FOR NON-CRITICAL ZONES DURING THE DR PERIOD

Space Conditioning Mandatory Measures:

120.2(j) DIRECT DIGITAL CONTROLS (DDC) DDC TO THE ZONE SHALL BE PROVIDED AS SPECIFIED BY TABLE 120.2-A. THE DDC SYSTEM SHALL MEET CONTROL LOGIC REQUIREMENTS OF 120.1(D), 110.12(a) AND 110.12(b) AND BE CAPABLE OF ALL OF THE FOLLOWING: 1. MONITORING ZONE AND SYSTEM DEMAND FOR FAN PRESSURE, PUMP PRESSURE, HEATING AND COOLING 2. TRANSFERRING ZONE AND SYSTEM DEMAND INFORMATION FROM ZONES TO AIR DISTRIBUTION SYSTEM CONTROLLERS AND FROM AIR DISTRIBUTION SYSTEMS TO HEATING AND COOLING PLANT CONTROLLERS 3. AUTOMATICALLY DETECTING THE ZONES AND SYSTEMS THAT MAY BE EXCESSIVELY DRIVING THE RESET LOGIC AND GENERATE AN ALARM OR OTHER INDICATION TO THE SYSTEM OPERATOR 4. READILY ALLOW OPERATOR REMOVAL OF ZONE(S) FROM THE RESET ALGORITHM 5. FOR NEW BUILDINGS, TRENDING AND GRAPHICALLY DISPLAYING INPUT AND OUTPUT POINTS 6. RESETTING HEATING AND COOLING SETPOINTS IN ALL NON-CRITICAL ZONES UPON RECEIPT OF A SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT AS DESCRIBED IN 110.12(b).
120.2(k) OPTIMUM START/STOP CONTROLS SPACE-CONDITIONING SYSTEMS WITH DDC TO THE ZONE SHALL HAVE OPTIMUM START/STOP CONTROLS. CONTROL ALGORITHM SHALL, AS A MINIMUM, BE A FUNCTION OF THE DIFFERENCE BETWEEN SPACE TEMPERATURE AND OCCUPIED SETPOINT, OUTDOOR AIR TEMP, AND AMOUNT OF TIME PRIOR TO SCHEDULED OCCUPANCY. MASS RADIANT FLOOR SLAB SYSTEMS SHALL INCORPORATE FLOOR TEMPERATURE ONTO THE OPTIMUM START ALGORITHM.
120.4 AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS PORTIONS OF SUPPLY- AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8: • OUTDOORS • IN A SPACE BETWEEN THE ROOF AND AN INSULATING CEILING • IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES • UNCONDITIONED SPACES, SUCH AS UNCONDITIONED CRAWLSPACE PORTIONS OF SUPPLY-AIR DUCTS THAT ARE NOT IN ONE OF THESE SPACES, INCLUDING DUCTS BURIED IN CONCRETE SLAB, SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 (OR ANY HIGHER LEVEL REQUIRED BY CMC 605.0), OR BE ENCLOSED IN DIRECTLY CONDITIONED SPACE.

Space Conditioning Mandatory Measures:

120.4(b) DUCT AND PLENUM MATERIALS 120.4(b) FACTORY-FABRICATED DUCT SYSTEMS MUST: • COMPLY WITH UL 181 FOR DUCTS AND CLOSURE SYSTEMS AND BE LABELED AS COMPLYING WITH UL 181 • ALL PRESSURE SENSITIVE TAPES, HEAT ACTIVATED TAPES, AND MASTICS USED IN MANUFACTURE OF RIGID FIBERGLASS DUCTS SHALL COMPLY WITH UL 181 AND UL 181A • ALL PRESSURE SENSITIVE TAPES, AND MASTICS USED IN MANUFACTURE OF FLEXIBLE DUCTS SHALL COMPLY WITH UL 181 AND L 181B • JOINTS AND SEAMS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS COMBINED WITH MASTICS AND DRAWBANDS. FIELD-FABRICATED DUCT SYSTEMS: • FACTORY-MADE RIGID FIBERGLASS AND FLEXIBLE DUCTS FOR FIELD-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL 181. ALL CLOSURE SYSTEMS, INCLUDING PRESSURE SENSITIVE TAPES, MASTICS, AND AEROSOL SEALANTS, SHALL MEET THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A AND UL 181B. • MASTIC SEALANTS SHALL: • COMPLY WITH APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B AND BE NONTOXIC AND WATER RESISTANT. • PASS ASTM C731 AND D2202, IF USED IN BUILDING INTERIOR, • PASS ASTM C731, C732, AND D2202, IF USED ON EXTERIOR. • SEALANTS AND MESHES SHALL BE RATED FOR EXTERIOR USE. • PRESSURE SENSITIVE TAPES SHALL COMPLY WITH APPLICABLE REQUIREMENTS IN UL 181, UL 181A, AND UL 181B. • JOINTS AND SEAMS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS COMBINED WITH MASTICS AND DRAWBANDS. • DRAWBANDS USED WITH FLEXIBLE DUCTS SHALL: • BE EITHER STAINLESS STEEL WORM-DRIVE HOSE CLAMPS OR UV-RESISTANT NYLON DUCT TIES • HAVE A MINIMUM TENSILE STRENGTH RATING OF 150 LBS. • BE TIGHTENED AS RECOMMENDED BY THE MANUFACTURER • AEROSOL SEALANT CLOSURES SHALL: • MEET REQUIREMENTS OF UL 723 AND BE APPLIED ACCORDING TO MANUFACTURER SPECIFICATIONS • TAPES OR MASTICS USED IN COMBINATION WITH AEROSOL SEALING SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B, ASTM C731, C732 AND D2202.
120.4(c) ALL DUCT INSULATION PRODUCT R-VALUES SHALL BE BASED ON INSULATION ONLY AND TESTED IN ACCORDANCE WITH ASTM C518 OR ASTM C177 AND CERTIFIED PER §110.8.
120.4(d) INSTALLED THICKNESS OF DUCT INSULATION USED TO DETERMINE ITS R-VALUE SHALL BE DETERMINED AS FOLLOWS: • DUCT BOARD, LINER, AND FACTORY-MADE RIGIDS: USE NOMINAL INSULATION THICKNESS • DUCT WRAP: USE 75% (25% COMPRESSION) OF NOMINAL THICKNESS • FACTORY-MADE FLEXIBLE AIR DUCTS: DIVIDE THE DIFFERENCE BETWEEN THE ACTUAL OUTSIDE DIAMETER AND NOMINAL INSIDE DIAMETER BY TWO.
120.4(e) INSULATED FLEXIBLE DUCT PRODUCTS INSTALLED TO MEET THIS REQUIREMENT MUST INCLUDE LABELS (MAX INTERVALS OF 3 FT) SHOWING THERMAL RESISTANCE PERFORMANCE R-VALUE FOR THE DUCT INSULATION ITSELF BASED ON TESTS IN 120.4(c). AND INSTALLED THICKNESS DETERMINED BY 120.4(d)3.

Space Conditioning Mandatory Measures:

120.4(f) PROTECTION OF INSULATION INSULATION SHALL BE PROTECTED FROM DAMAGE BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND. CELLULAR FOAM INSULATION SHALL BE PROTECTED, OR BE PAINTED WITH A WATER RETARDANT COATING THAT PROVIDES SHIELDING FROM SOLAR RADIATION.
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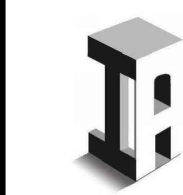
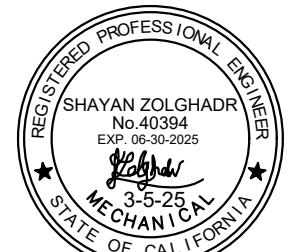


UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM WHAT IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO START OF WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICES. BEFORE EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES BY CONTACTING UNDERGROUND UTILITIES SERVICE ALERT AT 1 (800) 422-4153.

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Department of Public Works

SENIOR CENTER RENOVATION

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MECHANICAL TITLE 24

Sheet Number:

M5.2