

City Hall Expansion and Remodel

CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

TCA

ARCHITECTURE + PLANNING + DESIGN

6211 ROOSEVELT WAY
NORTHEAST
SEATTLE, WA 98115
tel: (206) 522-3830
fax: (206) 522-2456

6235

REGISTERED
ARCHITECT

BRIAN J. HARRIS

STATE OF WASHINGTON

10/13/2021

PROJECT TEAM

OWNER
City of Clyde Hill
9605 NE 24th St
Clyde Hill WA 98004
Phone: (435) 453-7800
Contact: Dean Rohla

ARCHITECT
TCA Architecture
6211 Roosevelt Way NE
Seattle, Wa 98115
Phone: (206) 522-3830
Contact: Sarah Elley

STRUCTURAL ENGINEER
Coughlin Porter Lundeen
801 2nd Avenue #900
Seattle, Washington 98104
Phone: 206 - 343 - 0460
Contact: Mike Armstrong

ELECTRICAL ENGINEER
Case Engineering
19515 North Creek Parkway #302
Bothell, Washington 98011
Phone: 425-402-9400
Contact: John Kritsis

MECHANICAL & PLUMBING
Sider & Byers Associates Inc.
192 Nickerson Street #300
Seattle, Washington 98109
Phone: 206-285-2966
Contact: Dana Fontes

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GENERAL PROJECT NOTES

- CONSTRUCTION OF THIS PROJECT SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND EACH SUBCONTRACTOR TO REVIEW, UNDERSTAND AND COORDINATE WORK WITH APPLICABLE CODES, ORDINANCES, REGULATIONS, AND ALL CONTRACT DRAWINGS BEFORE THE INSTALLATION OF THEIR WORK. ANY DISCREPANCY BETWEEN DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER, ENGINEER OR ARCHITECT.
- SCHEDULE AND RECEIVE APPROVAL FROM GOVERNING JURISDICTION AND THE ENGINEER FOR ALL UTILITY INTERRUPTIONS IN ADVANCE OF NEEDED DATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE REQUIRED NOTIFICATION TIMES WITH EACH GOVERNING JURISDICTION AND/OR UTILITY.
- CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, OWNER SUPPLIED EQUIPMENT, AND OTHER EQUIPMENT.
- PROVIDE BLOCKING BEHIND ALL WALL MOUNTED ACCESSORIES AND MILLWORK AS REQUIRED BY APPLICABLE MANUFACTURER RECOMMENDATIONS, AND AS INDICATED BY ARCHITECT.
- ALL PENETRATIONS OF FIRE RESISTIVE WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITERS LABORATORIES' LISTINGS FOR THROUGH PENETRATION FIRE STOP SYSTEM.
- CONTRACTOR SHALL CONTACT ARCHITECT PRIOR TO FINAL PLACEMENT OF LIGHT FIXTURES AND DIFFUSERS IN ALL CEILINGS AND WALLS. COORD. WITH ELECTRICAL PRIOR TO ACOUSTICAL CEILING GRID INSTALLATION.
- ALL ELECTRICAL, PLUMBING & MECHANICAL PENETRATIONS SHALL BE SEALED AND PROVIDED WITH ESCUTCHEONS.
- CONTRACTOR SHALL CONTACT ARCHITECT PRIOR TO FINAL PLACEMENT OF LIGHT FIXTURES & DIFFUSES IN ALL CEILINGS AND WALLS. COORD. WITH ELECTRICAL PRIOR TO ACOUSTICAL CEILING GRID INSTALLATION
- ALL DIMENSIONS ARE FROM FACE OF CONCRETE, BLOCK, STUD OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE.
- ALL EXTERIOR WALL & ROOF OPENINGS, FLASHING, COUNTER-FLASHING, EXPANSION JOINTS SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO MAKE THEM WEATHERPROOF AND WATERTIGHT.
- EACH INSTALLER SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION WITH OTHER INSTALLERS TO SECURE COMPLIANCE OF DRAWING AND SPECIFICATIONS CONCERNING THE ACCURATE LOCATION OF STRUCTURAL MEMBERS AND OPENINGS FOR MECHANICAL, ELECTRICAL AND MISCELLANEOUS EQUIPMENT.
- DO NOT SCALE DRAWINGS.** THE CONTRACTOR SHALL USE DIMENSIONS AS SHOWN AND ACTUAL FIELD MEASUREMENT. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- RECYCLING- CONTRACTOR IS ENCOURAGED TO RECYCLE ALL MATERIALS POSSIBLE AND TO USE RECYCLED MATERIALS WHERE SUITABLE. CONTRACTOR SHOULD NOTIFY ARCHITECT OF POTENTIAL RECYCLED MATERIALS WHICH MAY BE APPROPRIATE FOR SUBSTITUTION. REFER TO THE 'DIRECTORY OF RECYCLED CONTENT BUILDING AND CONSTRUCTION PRODUCTS', CLEAN WASHINGTON CENTER, (206) 464-7040.
- PROVIDE FIRE BLOCKING PER 2015 I.B.C. SECTION 718
- THIS PROJECT HAS BIDDER DESIGNED AND INSTALLED FEATURES AS NOTED BELOW, TO BE SUBMITTED AS A DEFERRED SUBMITTAL BY THE CONTRACTOR. DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WHO WILL REVIEW THEM AND FORWARD (PRIOR TO SUBMITTAL) THEM TO THE CITY OF CLYDE HILL NOTING THEY HAVE BEEN REVIEWED FOR CONFORMANCE WITH THE BUILDING DESIGN
A. FIRE ALARM SYSTEM
- SYSTEMS COMMISSIONING - ALL HVAC CONTROL SYSTEMS, LIGHTING CONTROLS, AND OTHER AUTOMATICALLY CONTROLLED SYSTEMS FOR WHICH ENERGY CONSUMPTION PERFORMANCE, OR MODE OF OPERATION ARE REGULATED BY WAC.51.11.1416 SHALL REQUIRE SYSTEMS COMMISSIONING. PRELIMINARY AND FINAL REPORTS SHALL BE IN ACCORDANCE WITH SECTION 1416.4.2.2
- HAZARDOUS MATERIALS: IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK.
B. IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

PROJECT INFORMATION

PARCEL NUMBER:

808600-0380

LEGAL DESCRIPTION:

POR VAC ST
SUMMIT PLACE 3RD ADD &
Plat Block: 20
Plat Lot: 5

ZONING:

R1

APPLICABLE BUILDING CODES:

- 2018 INTERNATIONAL BUILDING CODE WITH WA STATE AMENDMENTS
- 2018 INTERNATIONAL EXISTING BUILDING CODE
- 2018 WASHINGTON ENERGY CODE
- WASHINGTON ADMINISTRATIVE CODE (WAC)
- 2010 ADA STANDARDS

PERMIT NUMBER:

CONSTRUCTION TYPE:

NON-REINFORCED MASONRY (EXISTING)

SPRINKLER SYSTEM:

NO

AUTO FIRE ALARM:

YES (EXISTING)

OCCUPANT LOAD IBC TABLE 1004.5:

A	46 OCC.	694 SF
B	36 OCC.	4,807SF
S-2	2 OCC.	545 SF
U	3 OCC.	516 SF
TOTAL	87 OCC.	6,562 SF (EXISTING)

BUILDING NET AREA (EXISTING):

5,302 SF

AREA OF WORK:

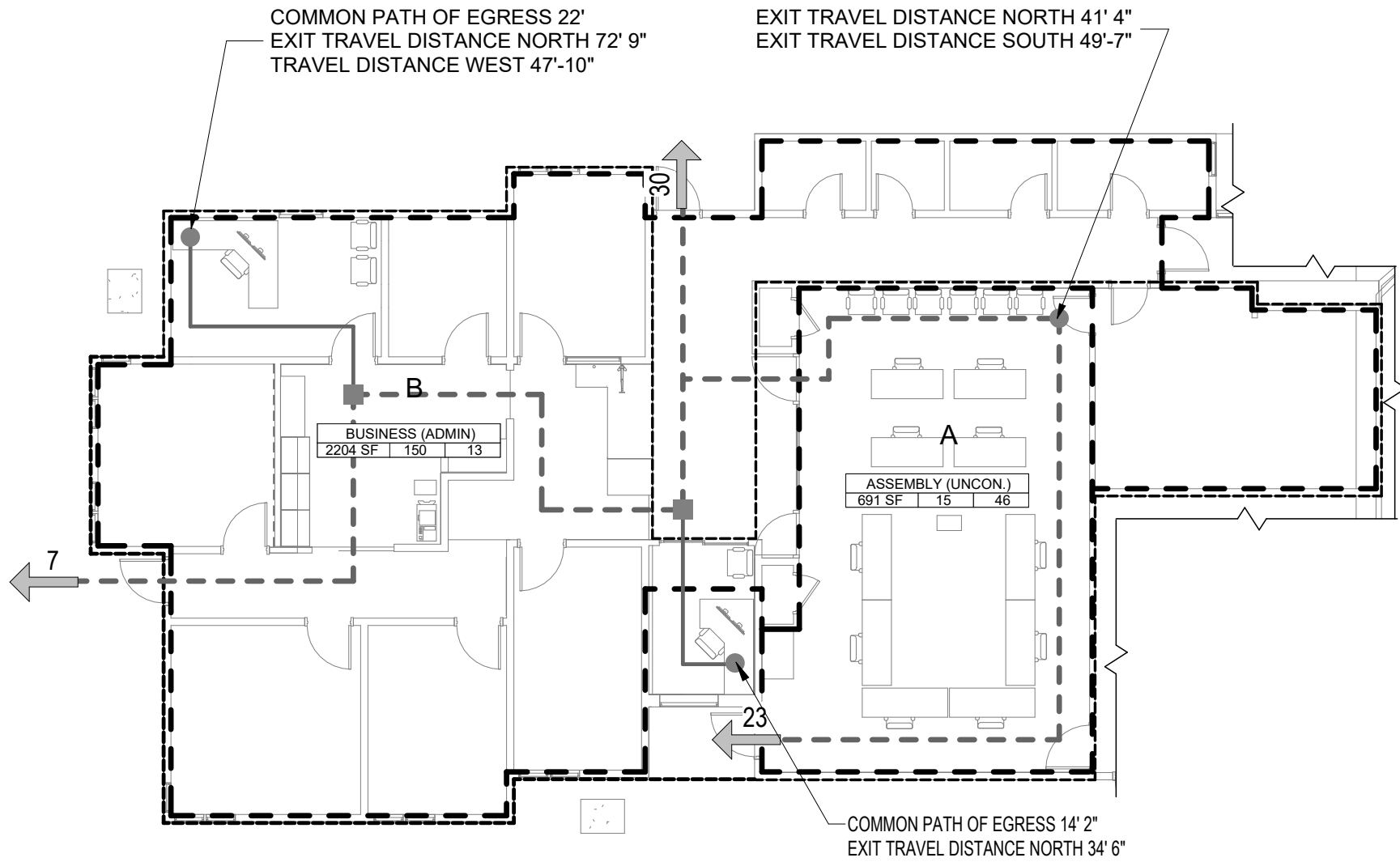
2,637 SF - ALTERATIONS
54 SF - ADDITIONS

PROJECT DESCRIPTION:

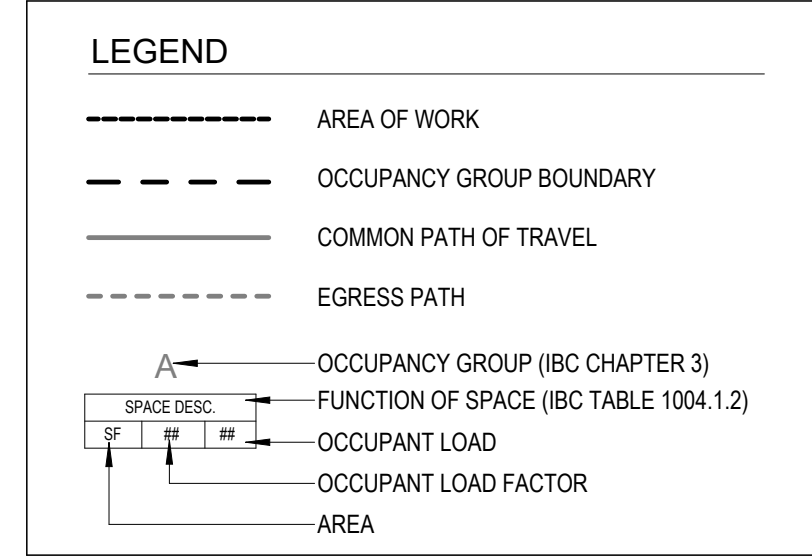
THIS PROJECT INCLUDES LIMITED ALTERATIONS AND ADDITIONS TO THE CLYDE HILL'S TOWN HALL.

ACCESSIBILITY NOTE:

ACCESSIBILITY UPGRADES TO INCLUDE ACCESSIBLE DOORWAYS, DOOR CLEARANCES AND ACCESSIBLE RECEPTION COUNTER.



1 AREA OF WORK & EGRESS



ABBREVIATIONS

& + @ € ∅ # ACoust. ADJ. ADJUST. AL / ALUM. APC APPROX. ARCH.	AND ANGLE AT CENTERLINE DIAMETER POUND OR NUMBER ACOUSTICAL ADJACENT ADJUSTABLE ALUMINUM ACOUSTICAL PANEL CEILING APPROXIMATE ARCHITECTURAL OR ARCHITECT	BUILDING BLK. BLKG. BLW BOT. BTWN.	CAB. C.I.P. C.I. C.L. CLG. CLKG. CLR. CMU. CONC. CONN. CONSTR. CONT. CORR. CPT. CTR.	CABINET CAST IN PLACE CONSTRUCTION/CONTROL JOINT CENTERLINE CEILING CALULING CLEAR CONCRETE MASONRY UNIT CONCRETE CONNECTION CONSTRUCTION CONTINUOUS CORRIDOR CARPET CENTER	DEMO. DET./DTL. DIA. DIM. DISP. DN. D.O. DP DR DWG. DWR.	E. EA EL ELEC. ELEV. EQ. EQPT / EQUIP EX / EXIST / (E) EXPO. EXP. EXT.	FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR FIBER GLASS FIRE HYDRANT FIRE HOSE CABINET FINISH FL, FLR FLASH. FIREPROOF FIBERGLASS REINFORCED PANEL FULL SIZE FOOT OR FEET FTG. FURR. FUT. F.V.	DEMOLISH, DEMOLITION DETAIL DIAMETER DIMENSION DISPENSER DOWN DOOR OPENING DEEP HARDWARE DOOR DRAWING DRAWER	EAST EACH EL ELEV. ELEVATOR (OR ELEVATION) EQUL EQUIPMENT EXISTING EXPOSED EXPANSION EXTERIOR	MAX. MECH. MFR. MIN. MISC. MTL. MTRXL.	GALV. GND. GR. G.S. GWB GYP.	GALVANIZED GROUND GRADE GALVANIZED STEEL GYPSUM WALL BOARD GYPSUM	HEAD HOLLOW METAL HORIZONTAL HOUR HOLLOW STRUCTURAL SECTION HEIGHT	INTERNATIONAL BUILDING CODE INCH INCLUDED (I) (ING) INSUL. INT. PTD. PRE-FIN R. RAD. R.D./O.F. REC. RECEPT. REF. REQD RM R.O RGSTR. RSP	O.A. O.H. OBS. O.C. O.D. O.F./O.F. OFCI	OVERALL OVERHEAD OBSCURE ON CENTER OUTSIDE DIAMETER (DIM.) OVERFLOW OWNER FURNISH CONTRACTOR INSTALL OFFICE OPENING OPPOSITE OVER	PERP. P-LAM. P. LAM. PLYWD. PRCST. P.T. POINT PAINTED PRE-FINISHED RISER RADIUS ROOF DRAIN & OVERFLOW RECOMMENDED RECEPT. REFERENCE REQUIRED ROOM ROUGH OPENING REGISTER RSP	S. S.C. SCHED. S.DET / SO SECT. SF. S.G. SH. SHT. SHTG/ SHTG SHWR. SIM. S.M. S.O.G. SPEC. SQ. S.S. STD. STL. STOR. STR.L. STRUCT. SUSP. SYM.	SOUTH CORE SCHEDULE SMOKE DETECTOR SECTION SQUARE FOOT (FEET) SAFETY GLASS SHELF SHEET SHEATHING SHOWER SIMILAR SHEET METAL SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SYMMETRICAL	TRD. OR T T.V. T.O.W. TYP. UNF. U.N.O. U.O.N.	TREAD TELEVISION TOP OF WALL TYPICAL UNFINISHED UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED	VAC. V.B. VERT. VEST. V.T.O.	VACUUM VAPOR BARRIER VERTICAL VESTIBULE VENT TO OUTSIDE	W. W/ W.A.B. W.R.B. W.C. WD. WDW. W/O WP. W.R. WSC. WT.	WEST WITH WEATHER AIR BARRIER (SAME AS WRB) WEATHER/WATER RESISTIVE BARRIER WATER CLOSET WOOD WINDOW WITHOUT WATERPROOF WATER RESISTANT, WATER-RESISTIVE WAINSCOT WEIGHT
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BID SET

No.	Description	Date:

Project Title:

City Hall Expansion and Remodel

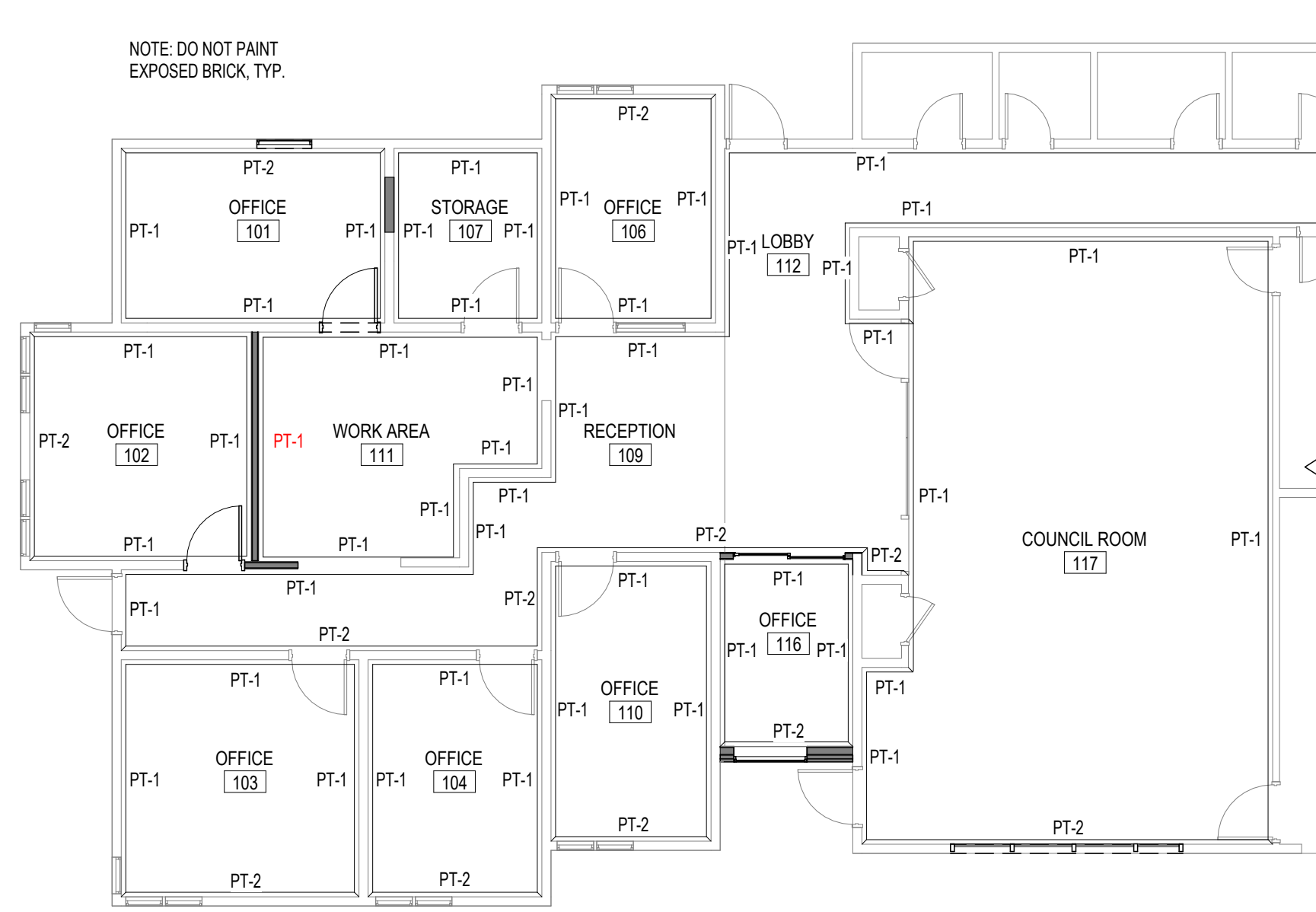
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TITLE PAGE, EGRESS, AREA OF WORK

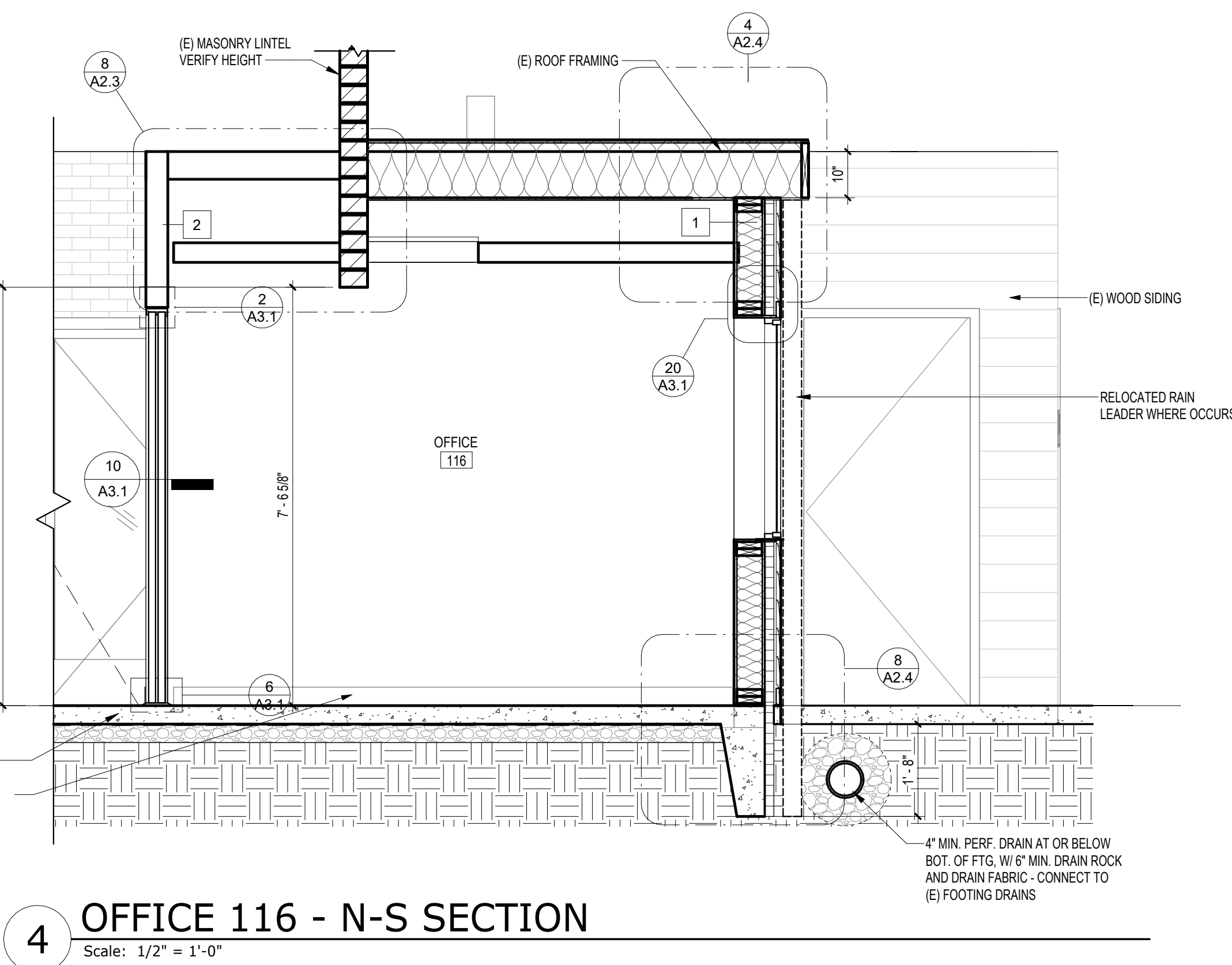
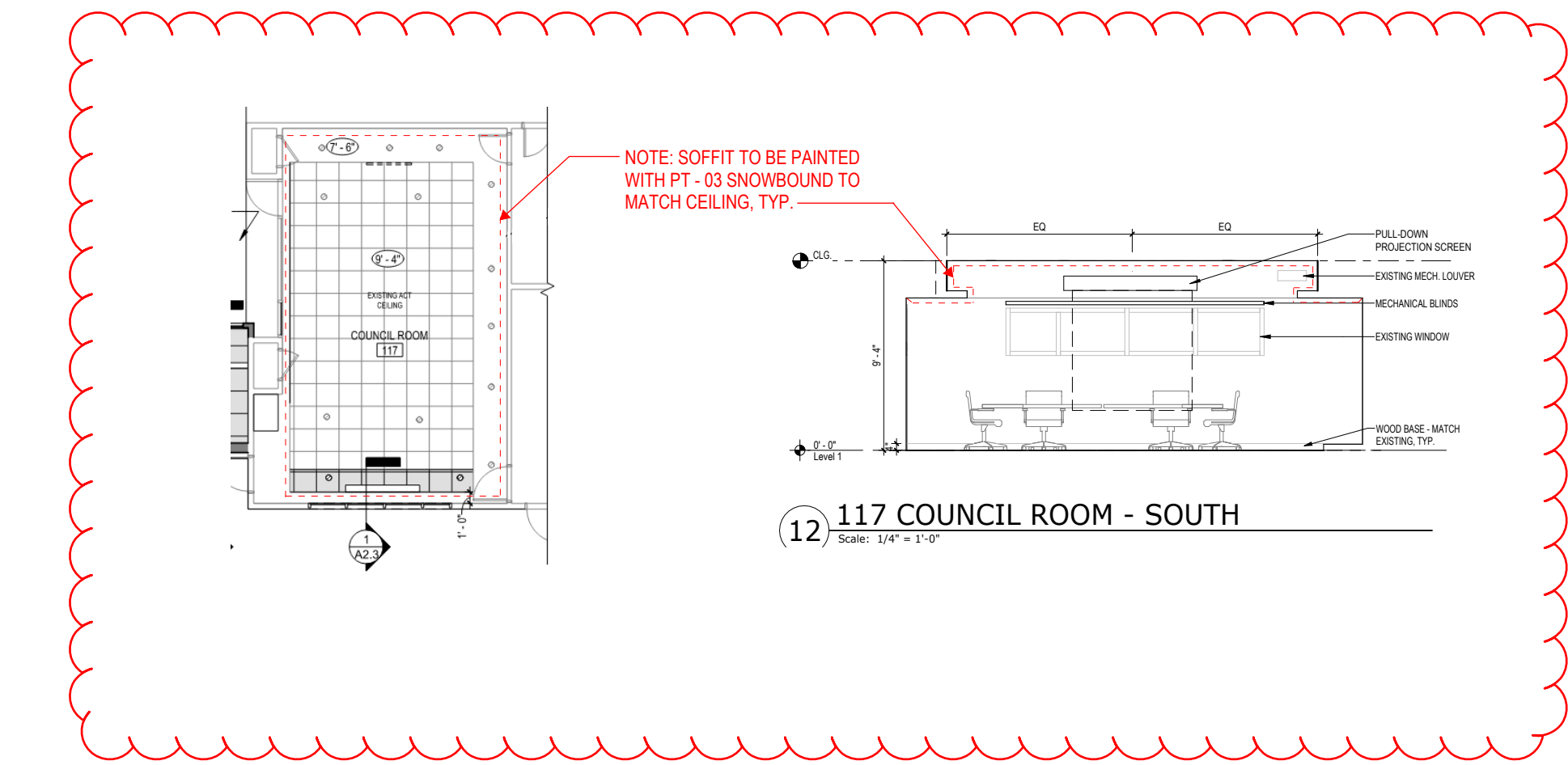
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Project No.: 16-32
Date: 10/31/2022

Sheet Number:

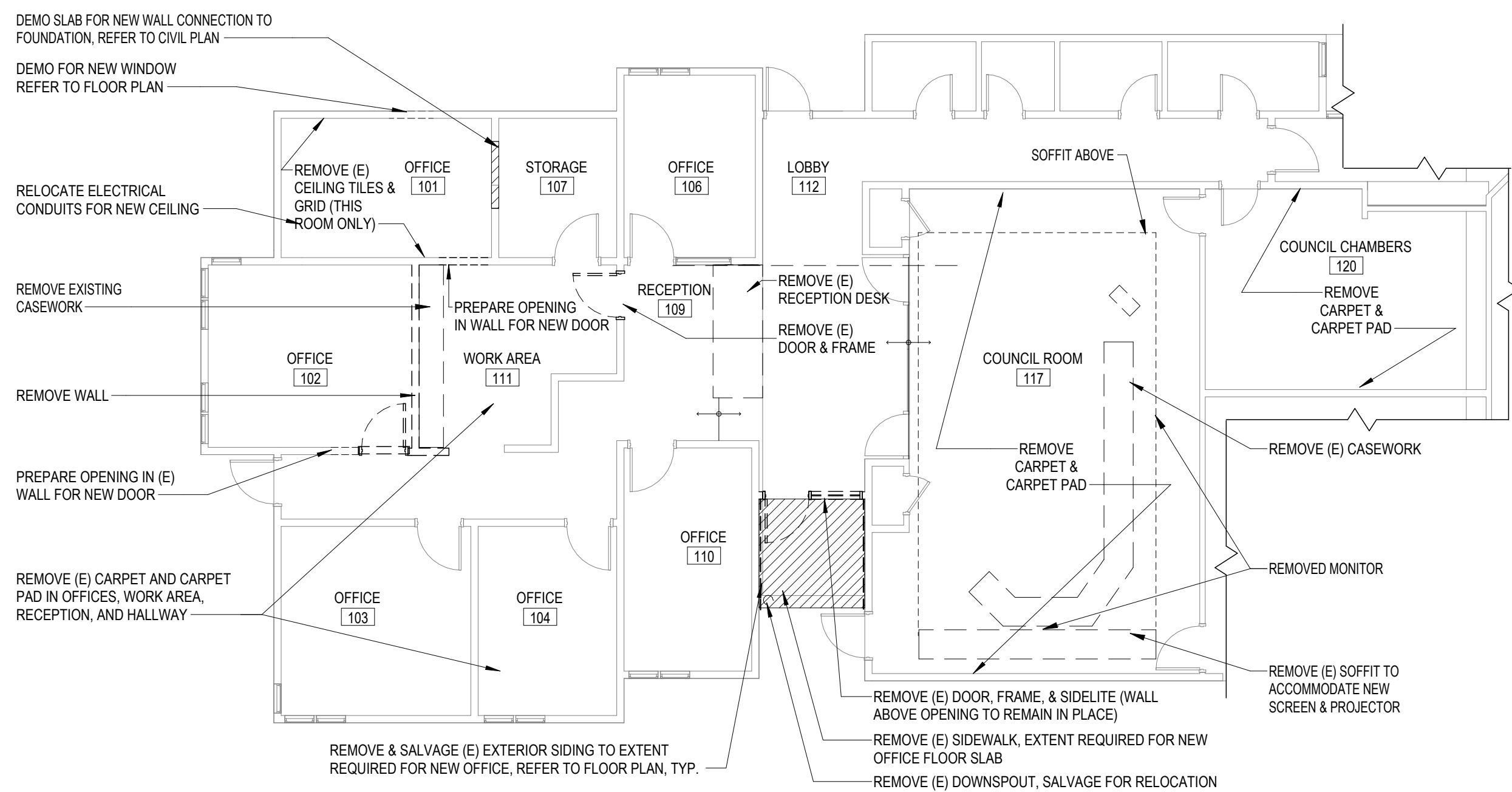
A2.1



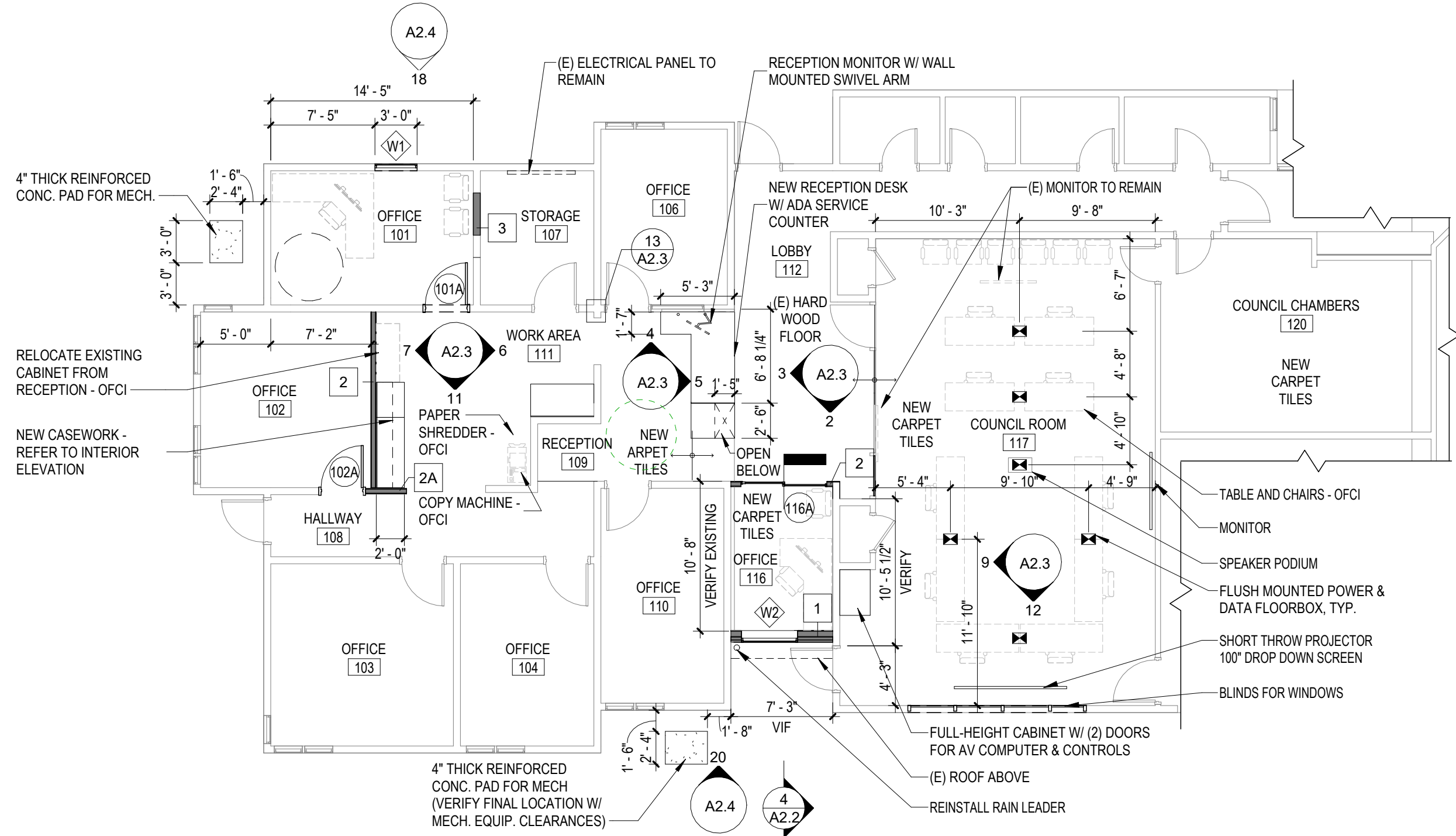
5 PAINT FLOOR PLAN
Scale: 1/8" = 1'-0"



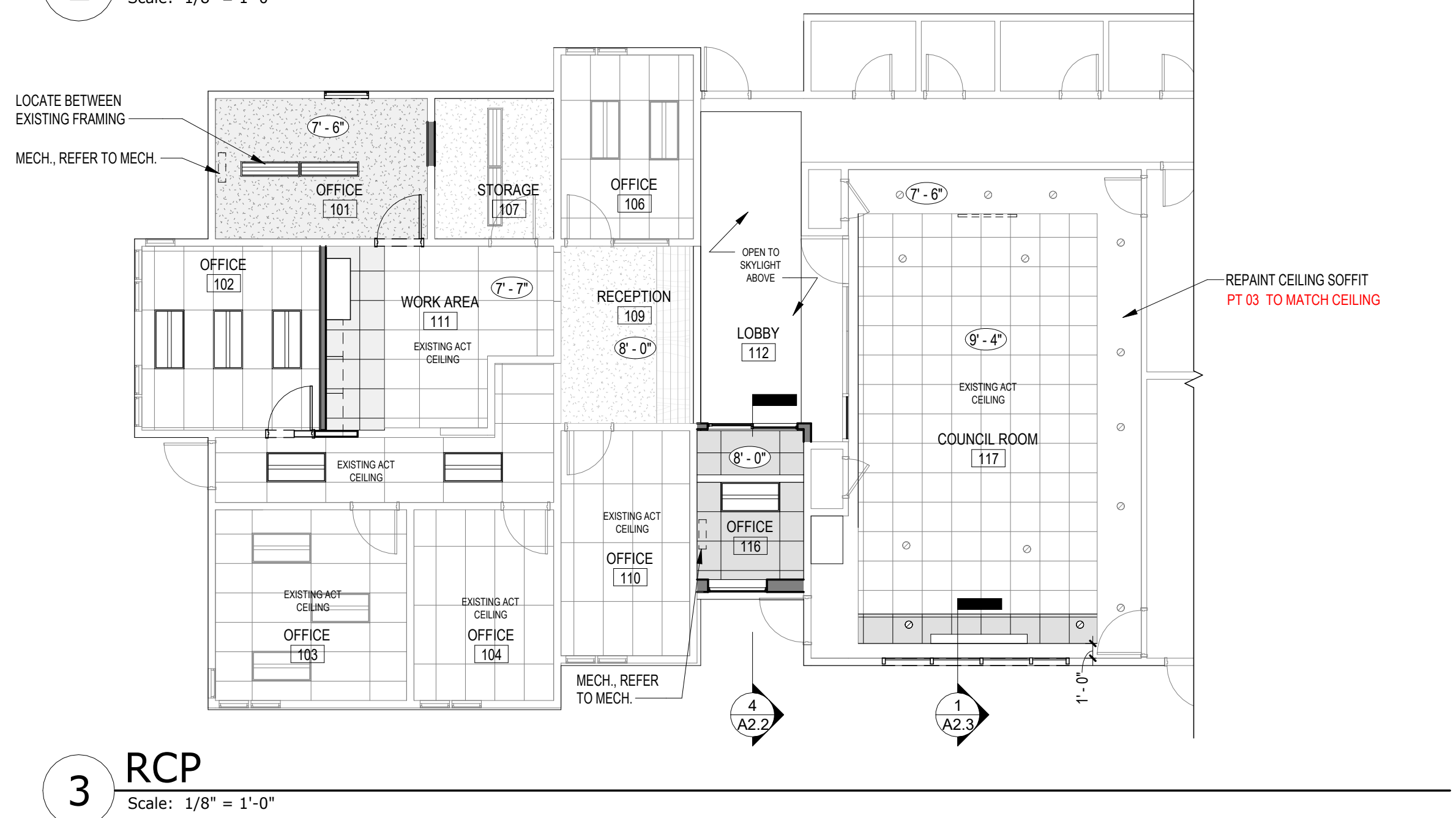
4 OFFICE 116 - N-S SECTION
Scale: 1/2" = 1'-0"



1 DEMO PLAN
Scale: 1/8" = 1'-0"



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



3 RCP
Scale: 1/8" = 1'-0"

DEMOLITION PLAN LEGEND

- EXISTING WALL
- ITEM TO BE REMOVED (REFER TO KEYNOTES)

DEMOLITION PLAN GENERAL NOTES

- REFER TO FLOOR PLAN 10/A2.3 FOR EXTENT OF DEMOTION REQUIRED FOR NEW CONSTRUCTION.
- PREPARE ALL SURFACES REQUIRED FOR NEW CONSTRUCTION.

FLOOR PLAN LEGEND

- EXISTING WALL
- NEW WALL
- ADA CLEARANCE

FLOOR PLAN GENERAL NOTES

- ALL DIMENSIONS ARE FROM FACE OF STUD, UNLESS NOTED OTHERWISE.
- VERIFY ALL EXISTING DIMENSIONS & CONDITIONS IN THE FIELD BEFORE PROCEEDING WITH THE WORK.
- WALLS TO BE WALL TYPE 2, UNLESS NOTED OTHERWISE.
- PATCH, REPAIR, AND PAINT EXISTING WALLS AS REQUIRED IN AREA OF WORK.

FLOOR PLAN LEGEND

- EXISTING WALL
- NEW WALL
- EXISTING ACT
- NEW ACT
- EXISTING LIGHT
- NEW LIGHT

REFLECTED CEILING PLAN GENERAL NOTES

- PAINT NEW GWB SOFFIT TO MATCH EXISTING.

BID SET

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CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

Sheet Title:

FLOOR PLAN/ DEMO PLAN/RCP

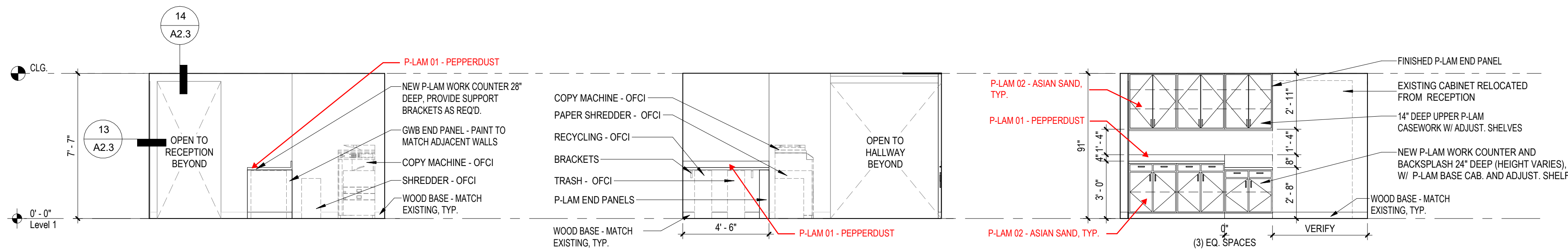
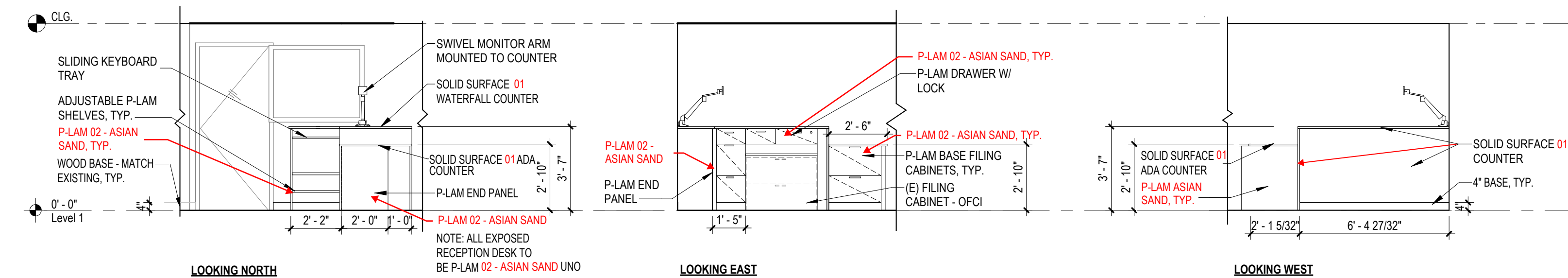
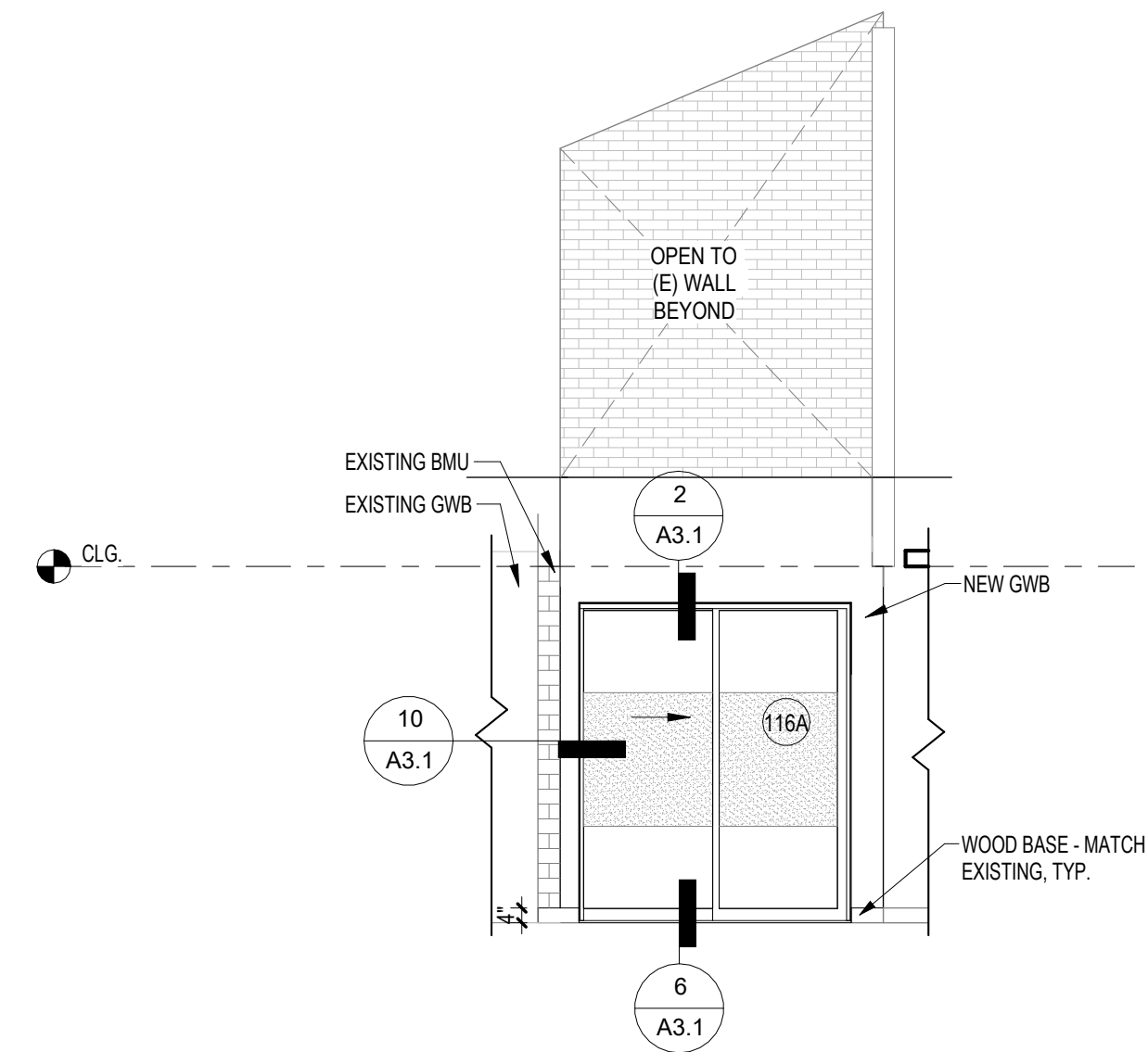
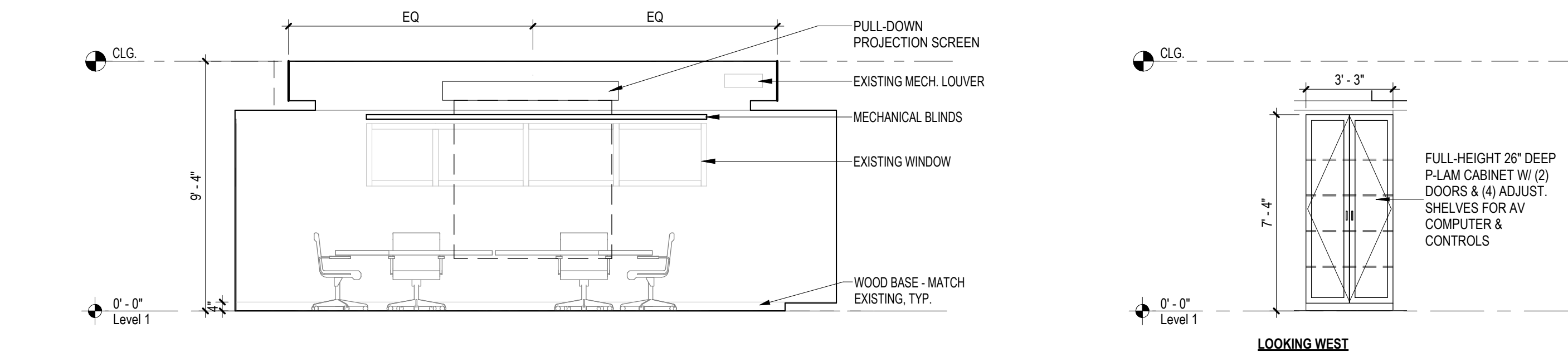
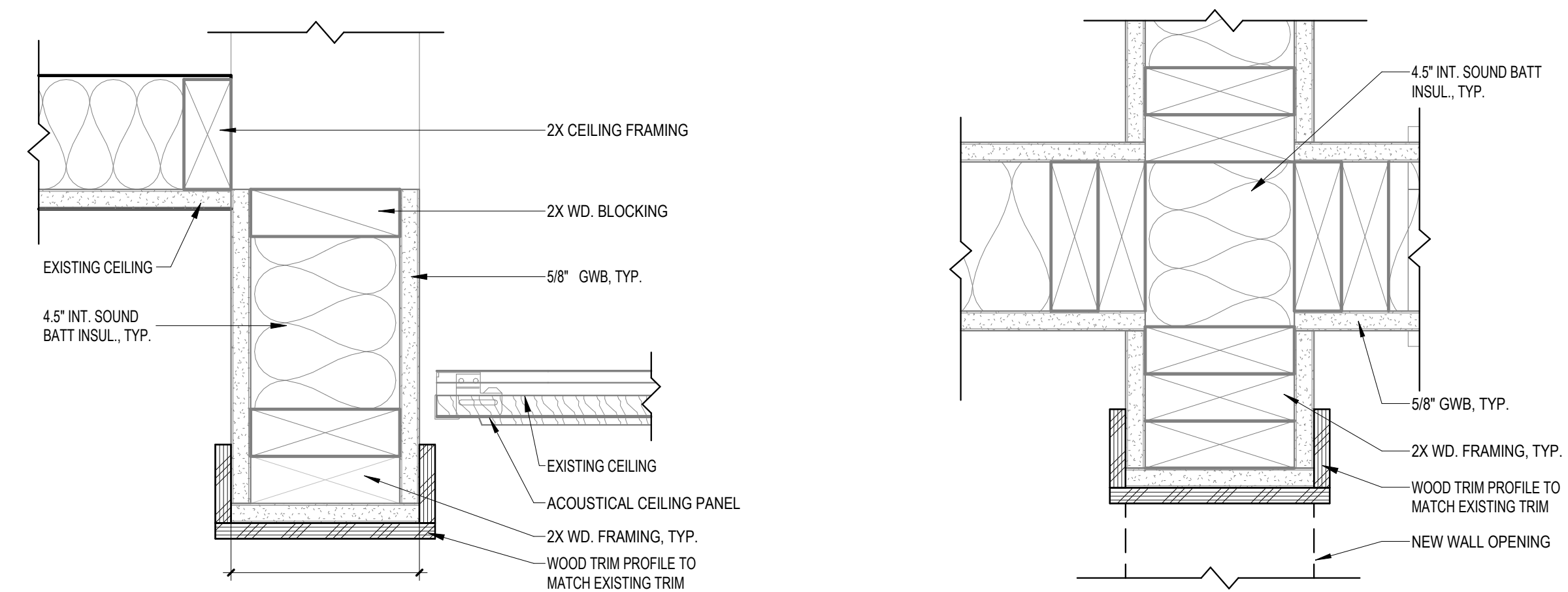
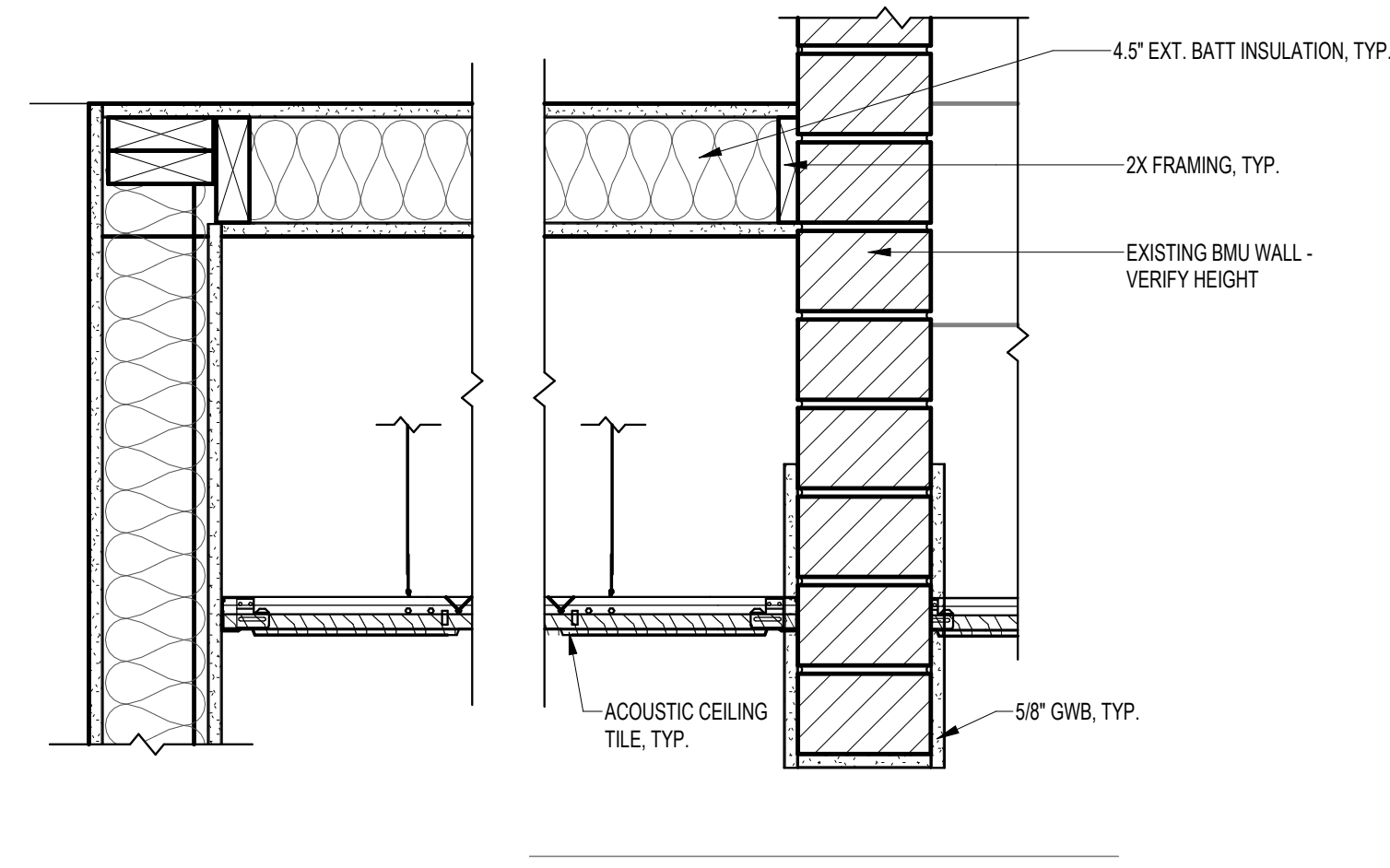
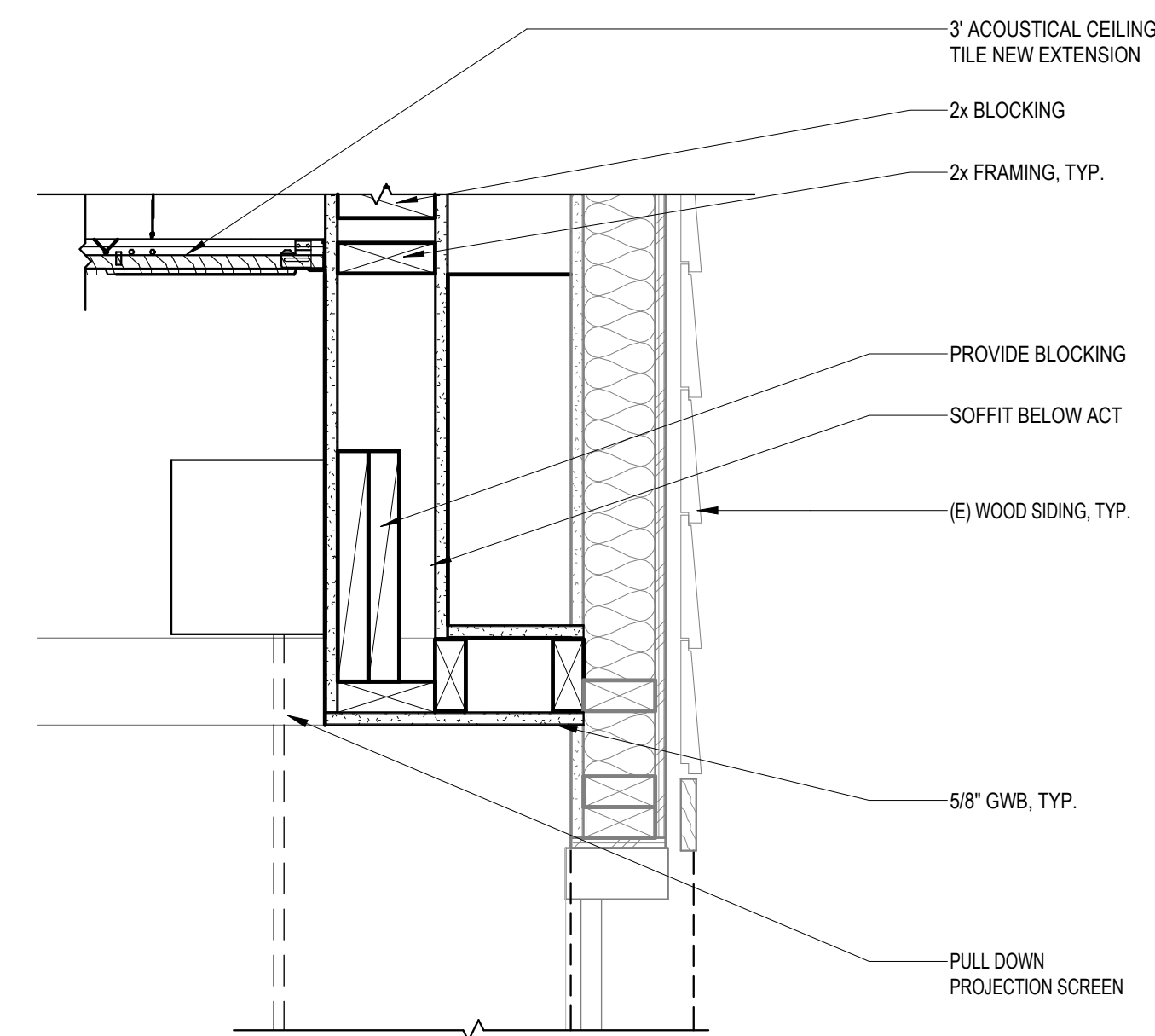
Scale: As indicated

Project No.: 16-32

Date: 10/31/2022

Sheet Number:

A2.2

6 101 WORK AREA - EAST
Scale: 1/4" = 1'-0"11 101 WORK AREA - SOUTH
Scale: 1/4" = 1'-0"7 101 WORK AREA - WEST
Scale: 1/4" = 1'-0"4 109 RECEPTION DESK
Scale: 1/4" = 1'-0"2 116 OFFICE SLIDING DOOR
Scale: 1/4" = 1'-0"12 117 COUNCIL ROOM - SOUTH
Scale: 1/4" = 1'-0"9 FULL HEIGHT AV CABINET
Scale: 1/4" = 1'-0"14 NEW WALL OPENING - HEAD
Scale: 3" = 1'-0"13 NEW WALL OPENING - JAMB
Scale: 3" = 1'-0"8 REVERSE SOFFIT
Scale: 1 1/2" = 1'-0"1 COUNCIL ROOM 117 - SOUTH WALL SECTION
Scale: 1 1/2" = 1'-0"

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9605 NE 24th St, Clyde Hill, WA 98004

Sheet Title:

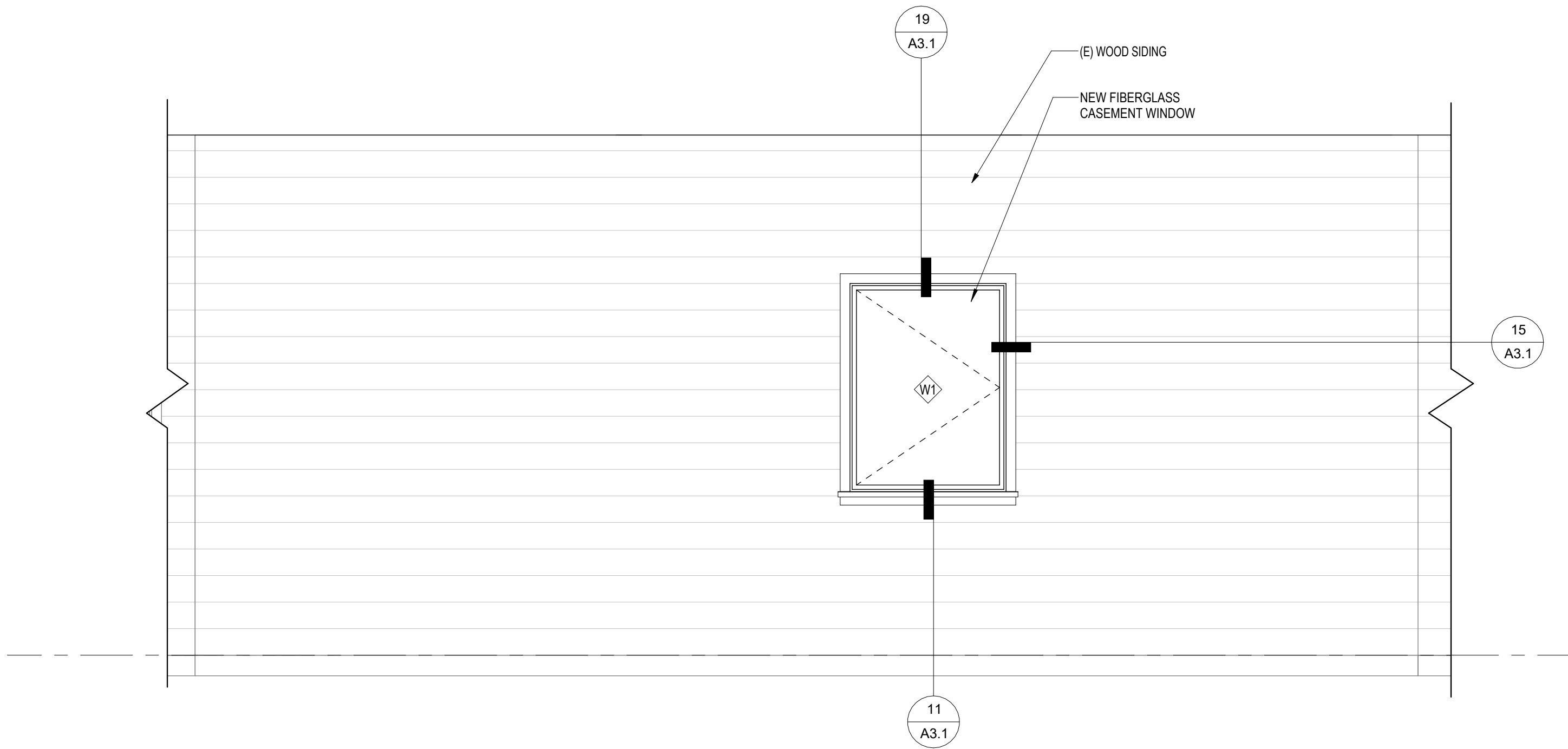
INTERIOR ELEVATIONS & INTERIOR
DETAILS

Scale: As indicated

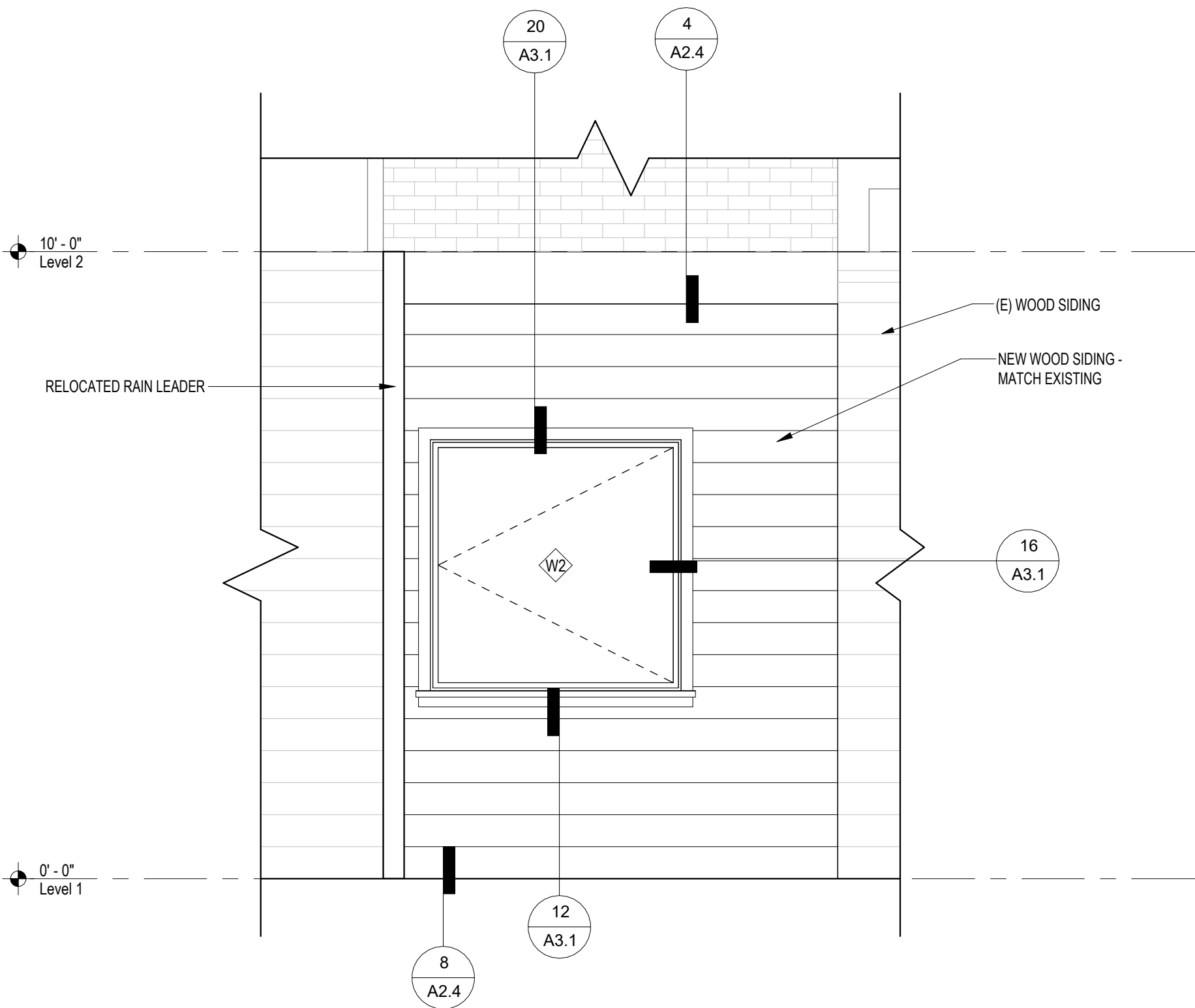
Project No.: 16-32

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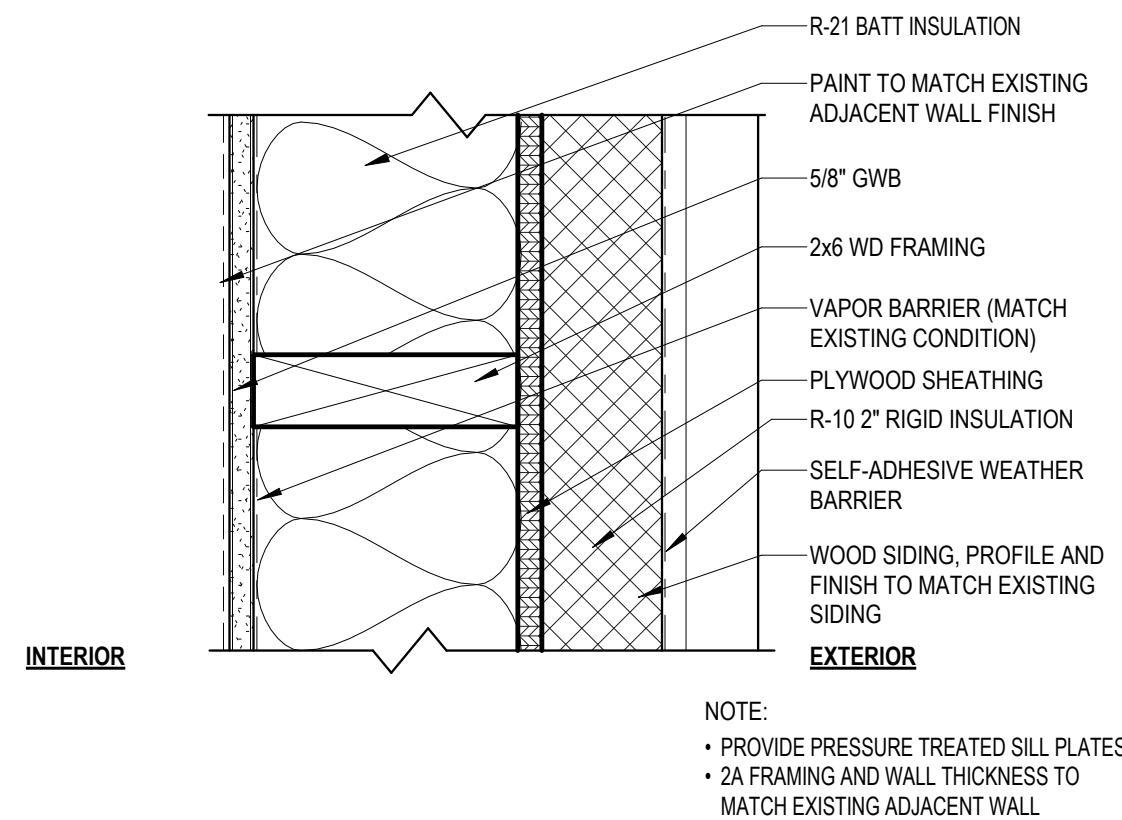
18 OFFICE 101 EXTERIOR ELEVATION - NORTH
Scale: 1/2" = 1'-0"



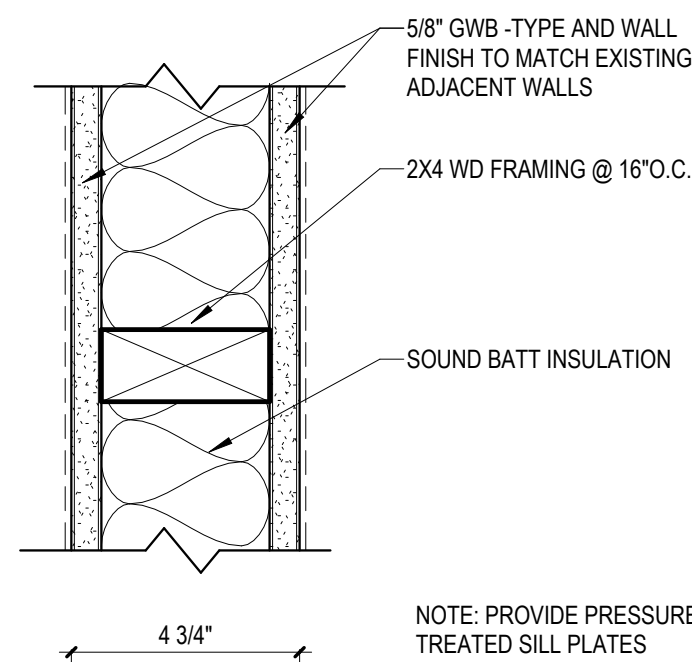
20 OFFICE 116 EXTERIOR WALL - SOUTH
Scale: 1/2" = 1'-0"

- WALL TYPE NOTES
1. WALL TYPES ARE KEYED ON FLOOR PLAN 2/A2.2.
 2. PROVIDE FIRE BLOCKING AS REQUIRED PER I.B.C. SEC. 718.2. PROVIDE FIRE BLOCKING AT DOUBLE STUD WALLS VERTICALLY AT CEILING AND FLOOR LEVELS AND HORIZONTALLY AT 10'-0" MAX.
 3. OMIT GWB AT CAVITY SIDE OF WALL WHERE OCCURS.
 4. SEE DOOR SCHEDULE ON SHEET A3.2 FOR CONDITIONS AT DOORS.
 5. SEE ARCH. INT. ELEVATIONS ON SHEETS A2.3 AND ARCH. BLDG. SECTION ON SHEET A2.2 FOR EXTENT OF INTERIOR WALL FINISHES.
 6. SEE ARCH. EXT. ELEVATIONS ON SHEET A2.4 AND ARCH. BLDG. SECTION ON SHEET A2.2 FOR EXTENT OF EXTERIOR WALL FINISHES.
 7. SEE FINISH SCHEDULE FOR ADDITIONAL GWB INFORMATION.

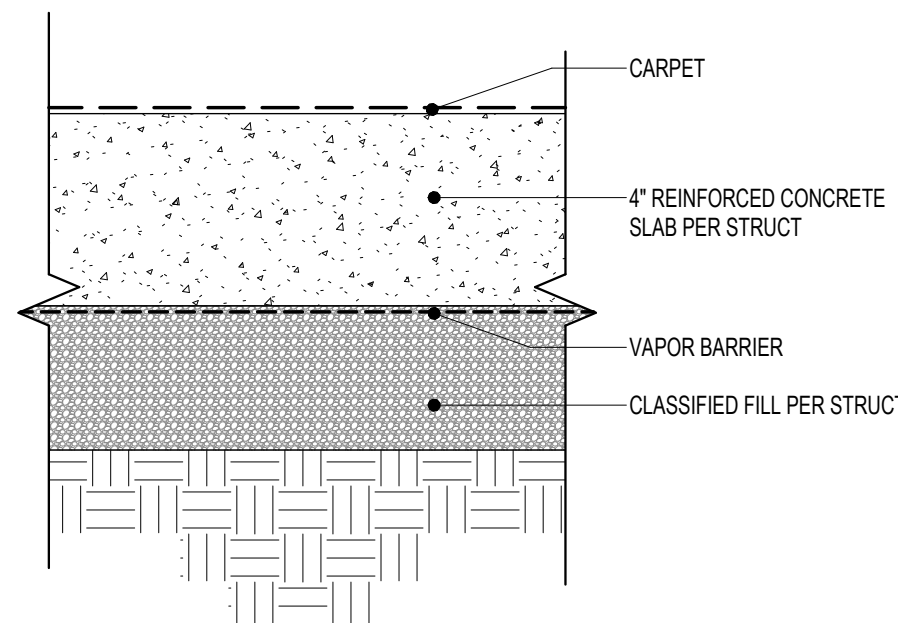
- WALL TYPE LEGEND
- **SOUND WALL:** PROVIDE SOUND BATT EXTENDED TO UNDERSIDE OF CEILING AND/ OR ROOF INSULATION ABOVE.
 - **THERMAL WALL:** PROVIDE R-21 INSUL. AND V.B. EXTENDED (W/ GWB) TO UNDERSIDE OF FLOOR AND/ OR ROOF ASSEMBLY.
 - **SHEAR WALL:** PROVIDE 1/2" PLYWOOD SHEATHING ON ONE OR BOTH SIDES OF THE WALL PER STRUCTURAL DRAWING.



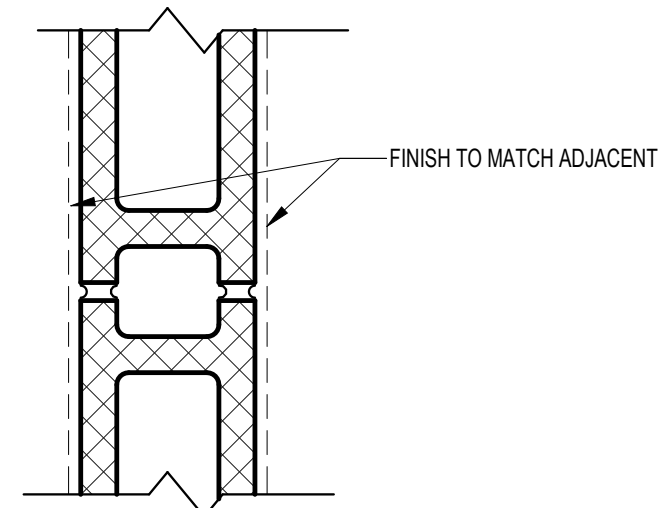
1 EXTERIOR WALL



2 INTERIOR WALL 2X4

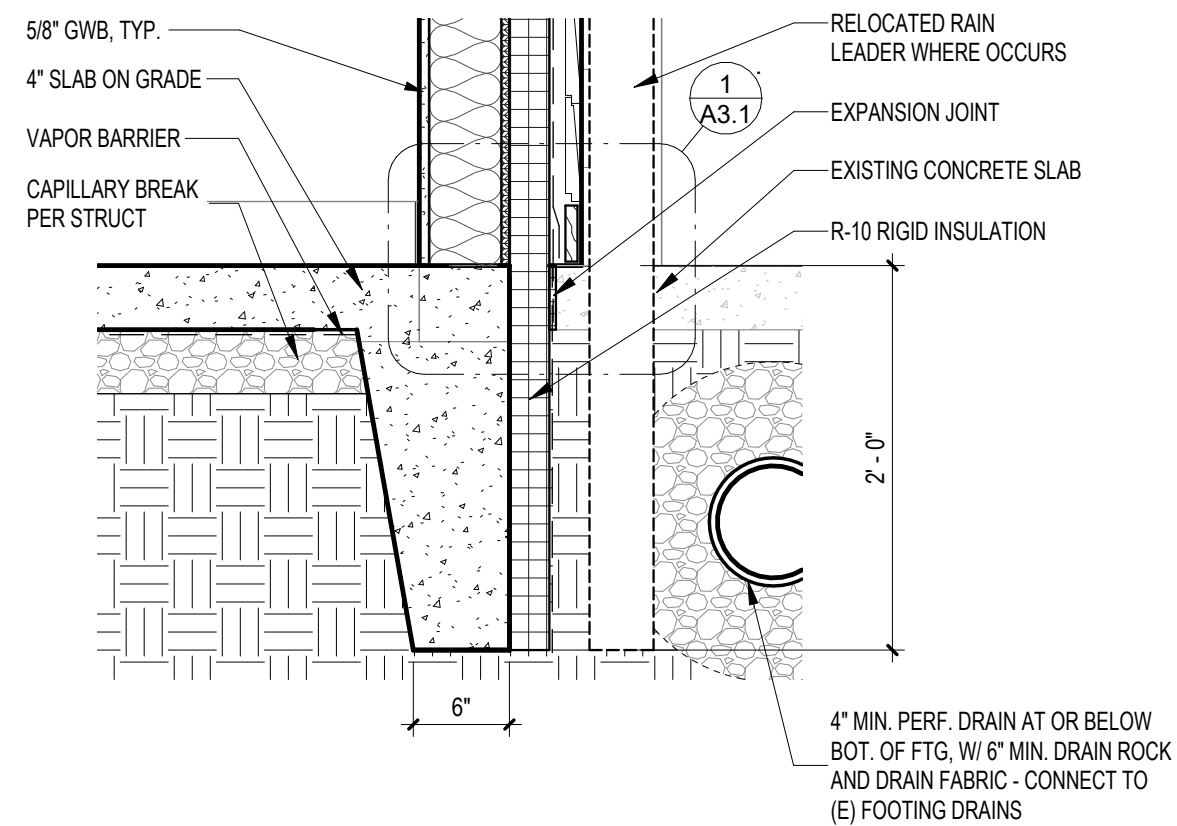


S1 SLAB ON GRADE - 6" NEW



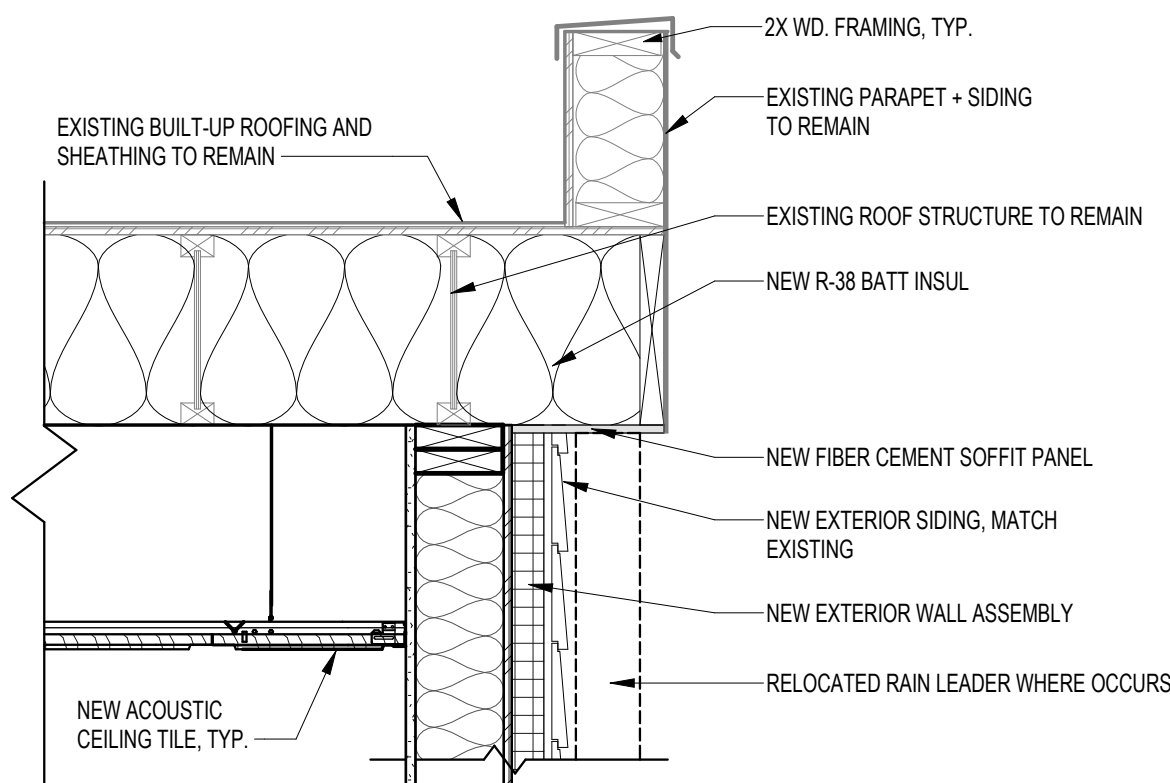
3 INTERIOR REINFORCED CMU WALL

FLOOR TYPES
Scale: 3" = 1'-0"



8 CONCRETE FOOTING DETAIL
Scale: 1" = 1'-0"

WALL TYPES LEGEND
Scale: 3" = 1'-0"



4 ROOF DETAIL
Scale: 1" = 1'-0"

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Sheet Title:

WALL TYPES/FLOOR TYPES/EXTERIOR DETAILS

Scale: As indicated

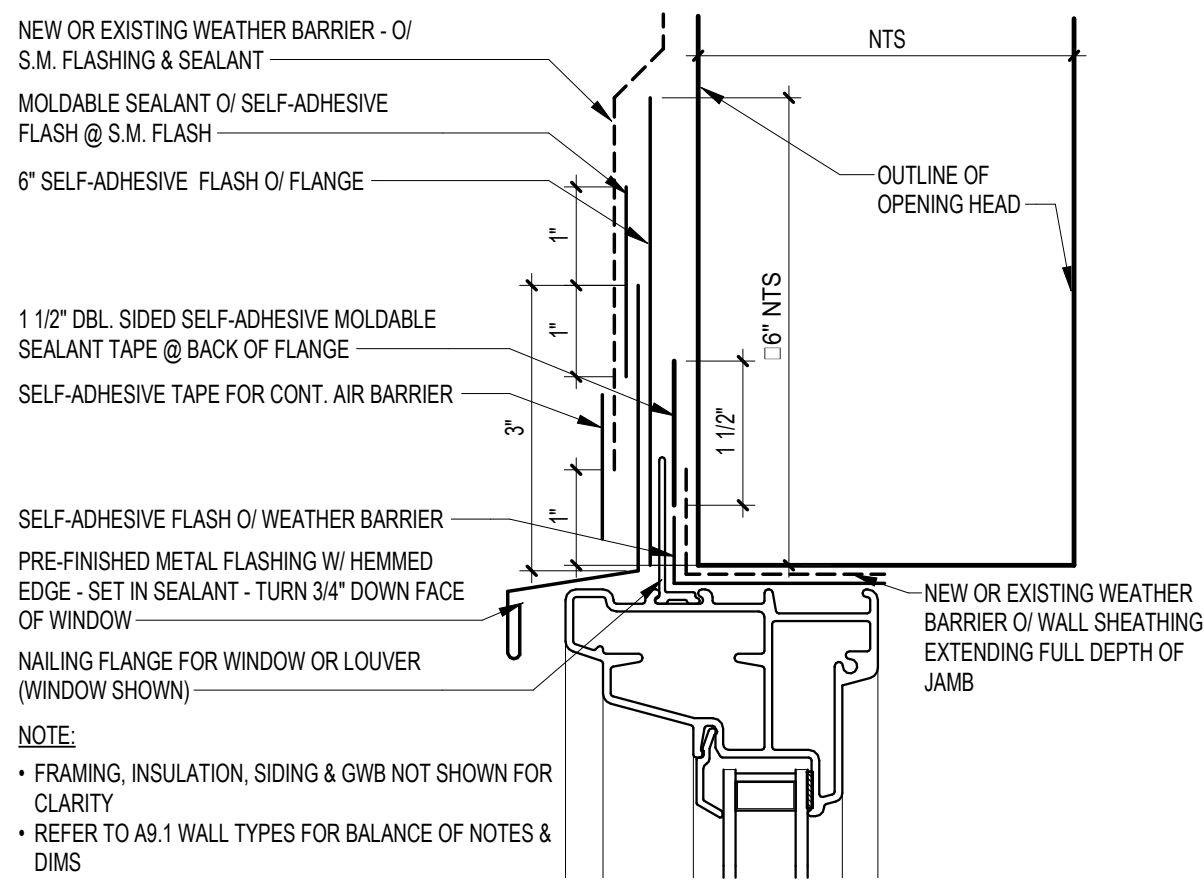
Project No.: 16-32

Date: 10/31/2022

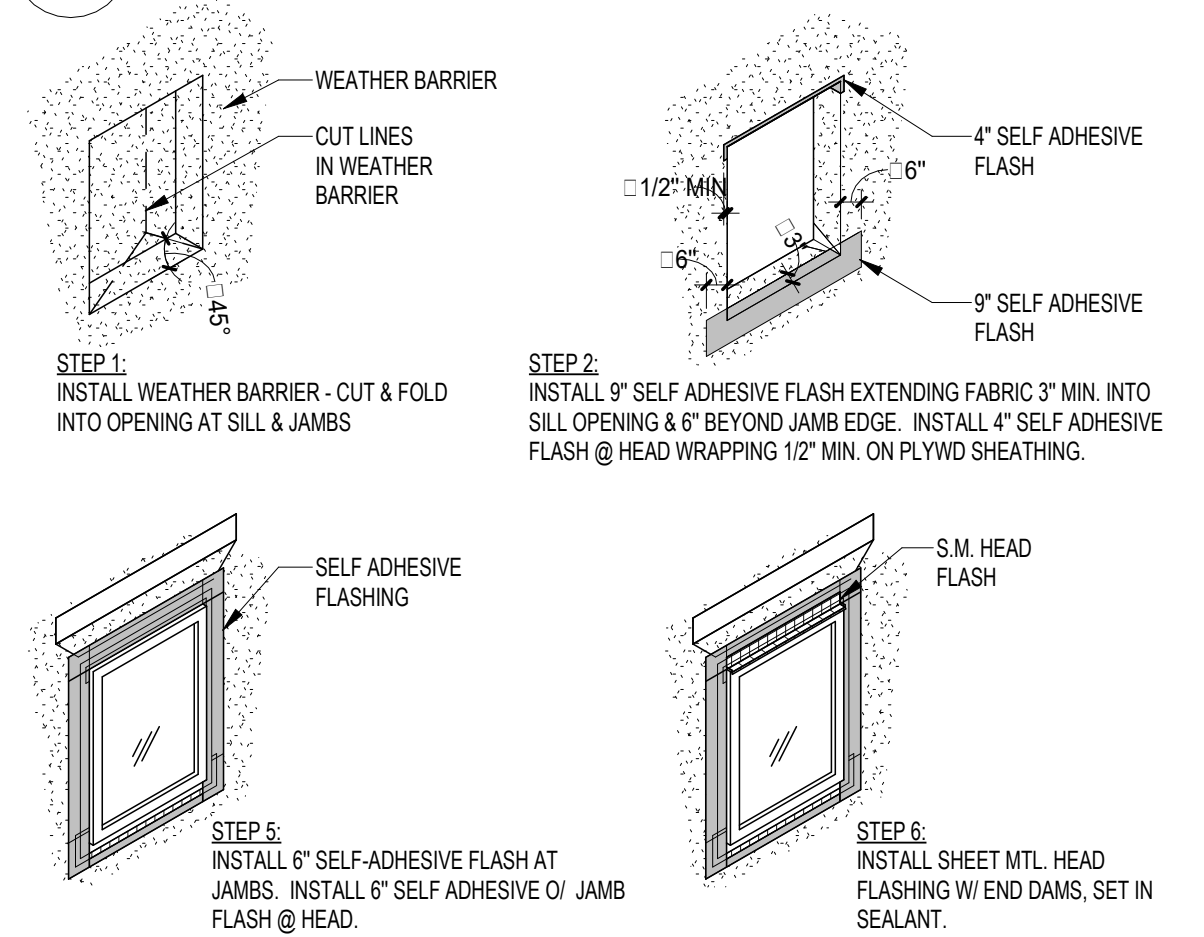
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A2.4

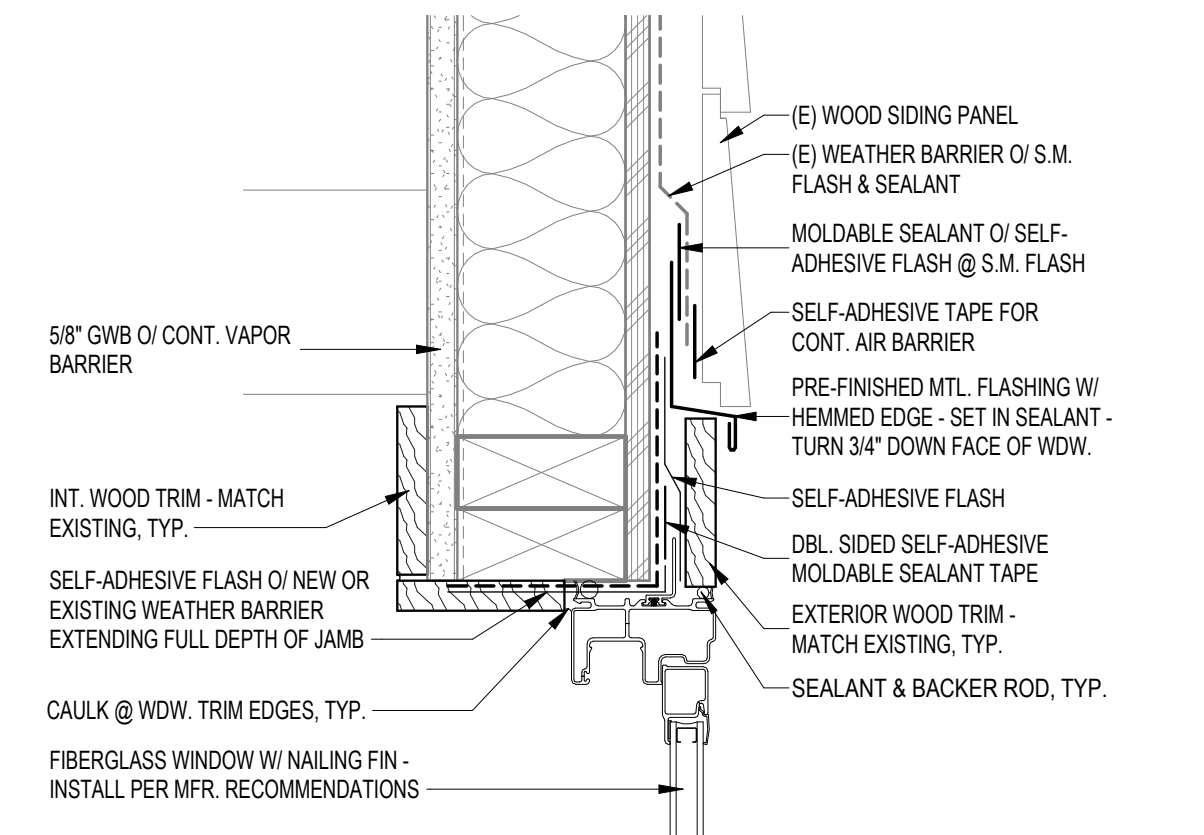
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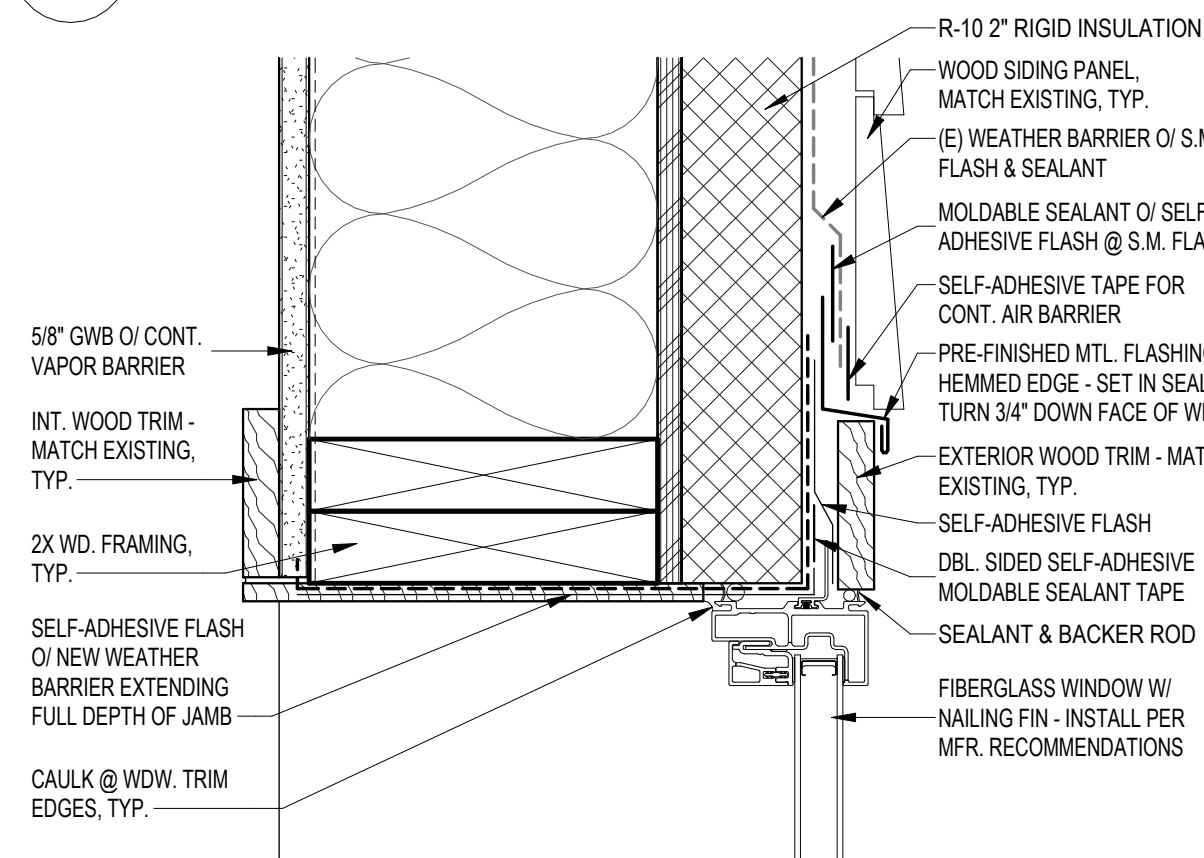
17 TYP. HEAD FLASHING W/ NAILING FLANGE
Scale: 6" = 1'-0"



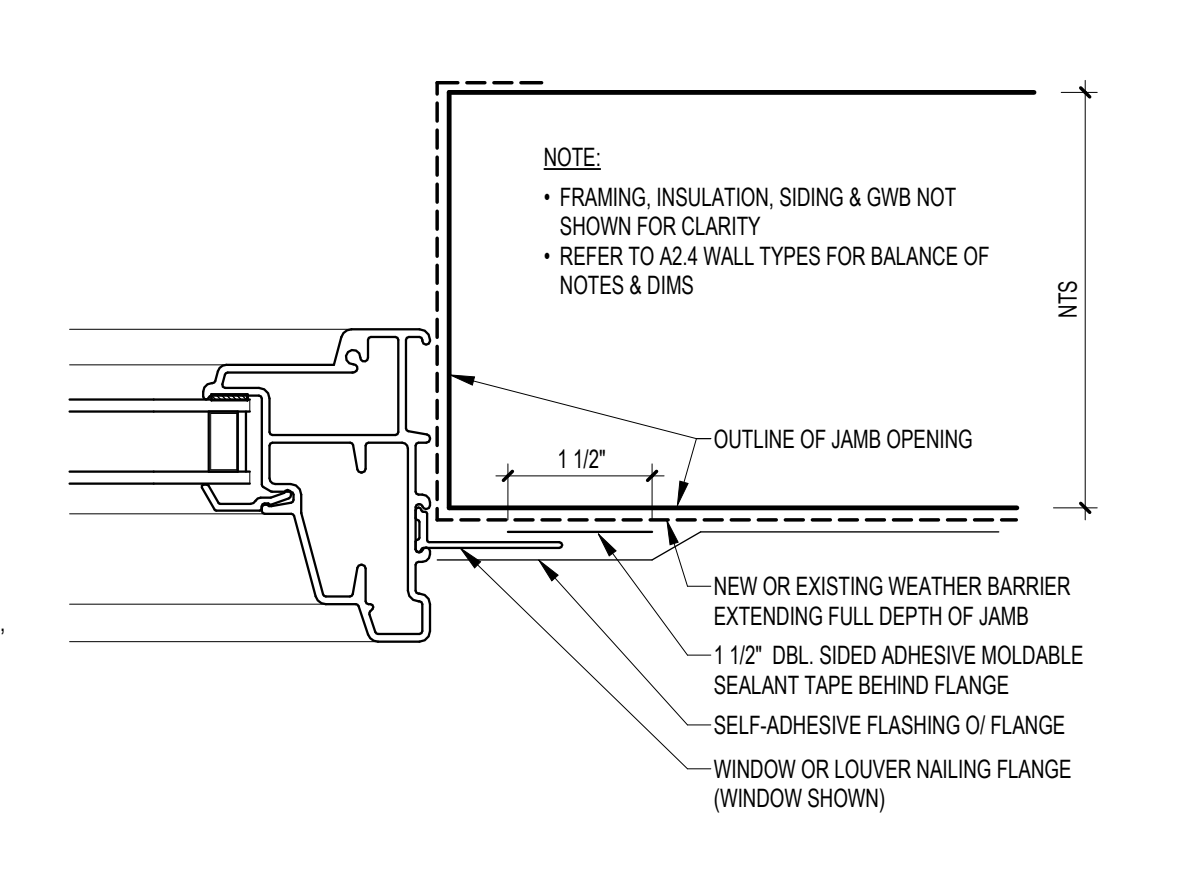
18 LOUVER/WINDOW (W/ FLANGE) FLASHING INSTALLATION
Scale: 1/8" = 1'-0"



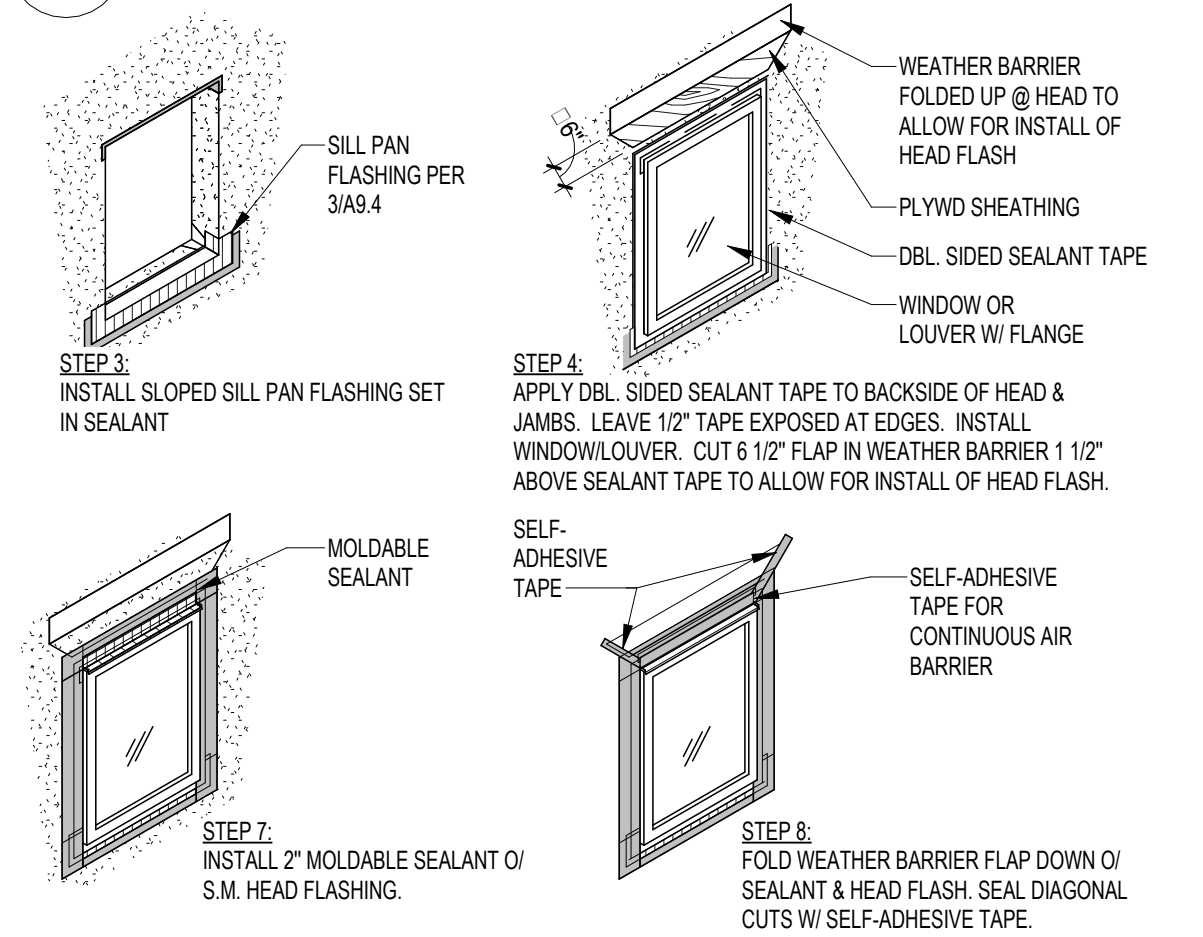
19 FIBERGLASS CASEMENT WDW - HEAD
Scale: 3" = 1'-0"



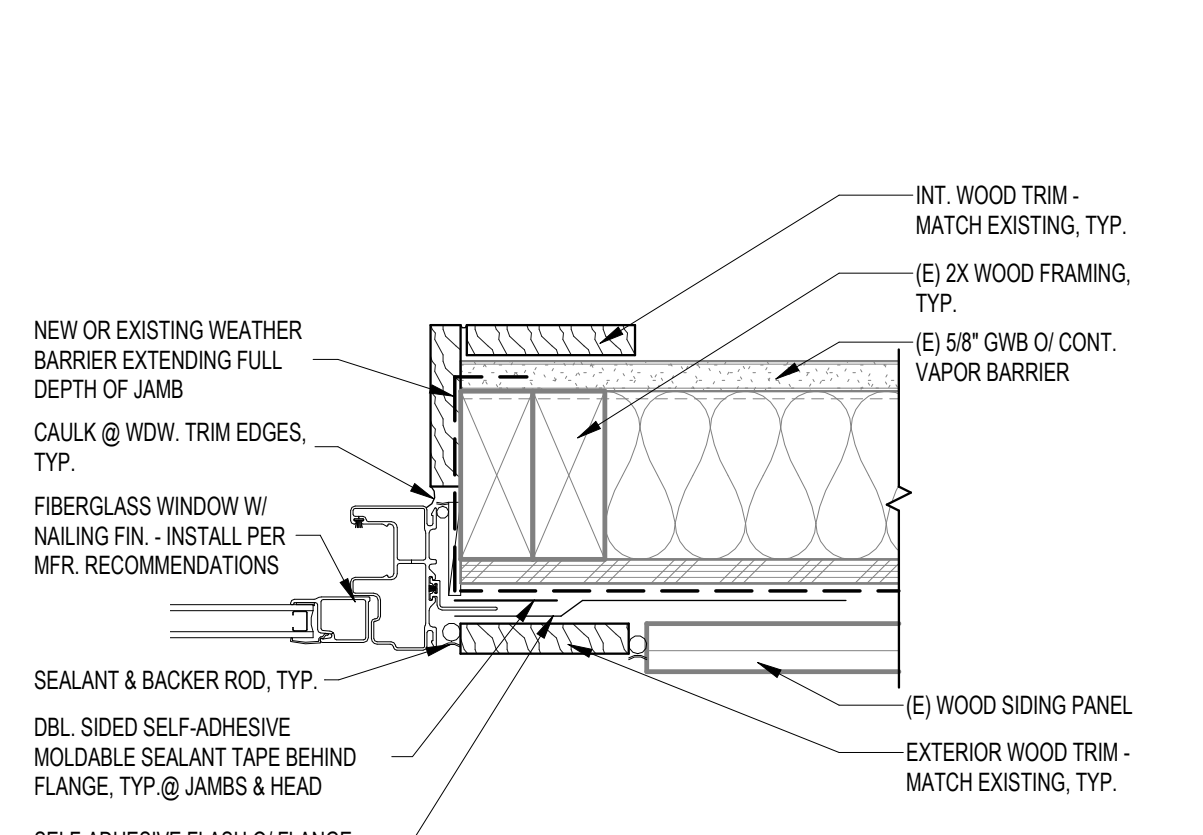
20 PICTURE WDW @ OFFICE 116 SOUTH WALL - HEAD
Scale: 3" = 1'-0"



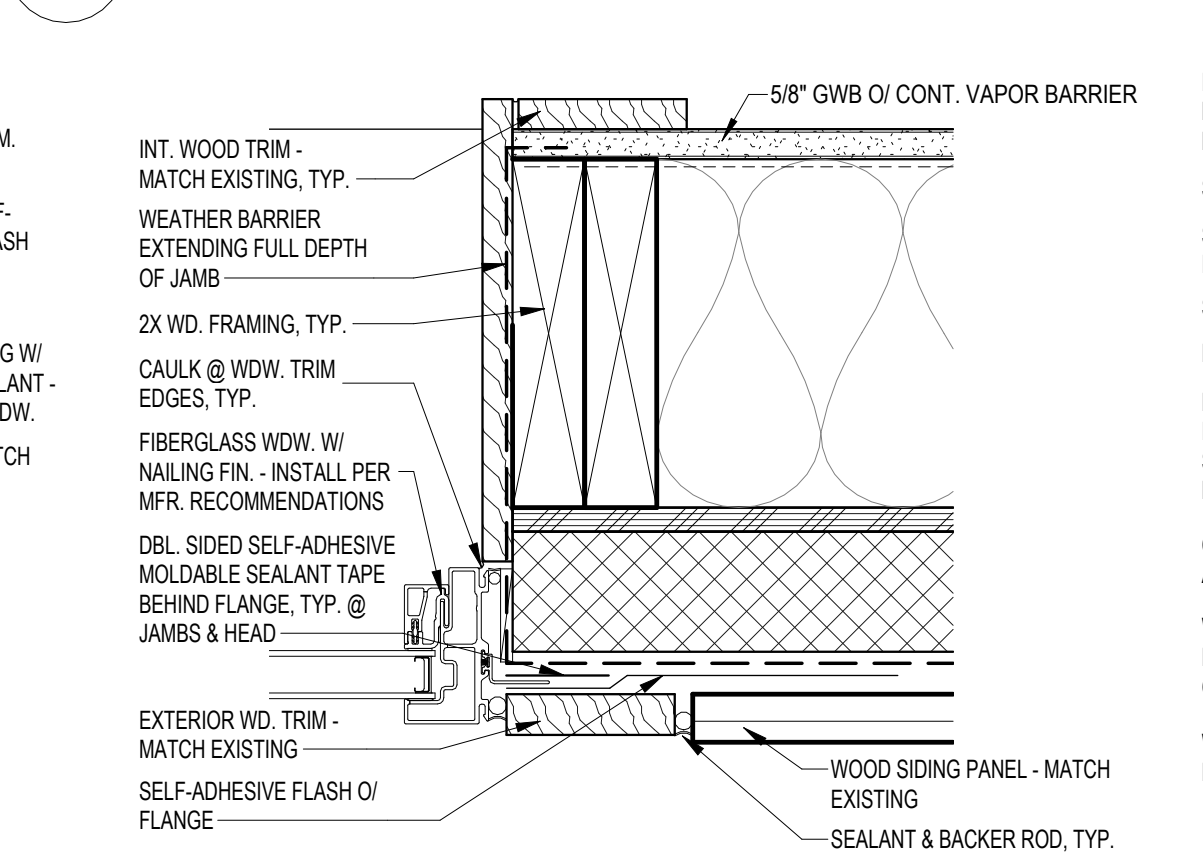
21 TYP. JAMB FLASHING W/ NAILING FLANGE
Scale: 6" = 1'-0"



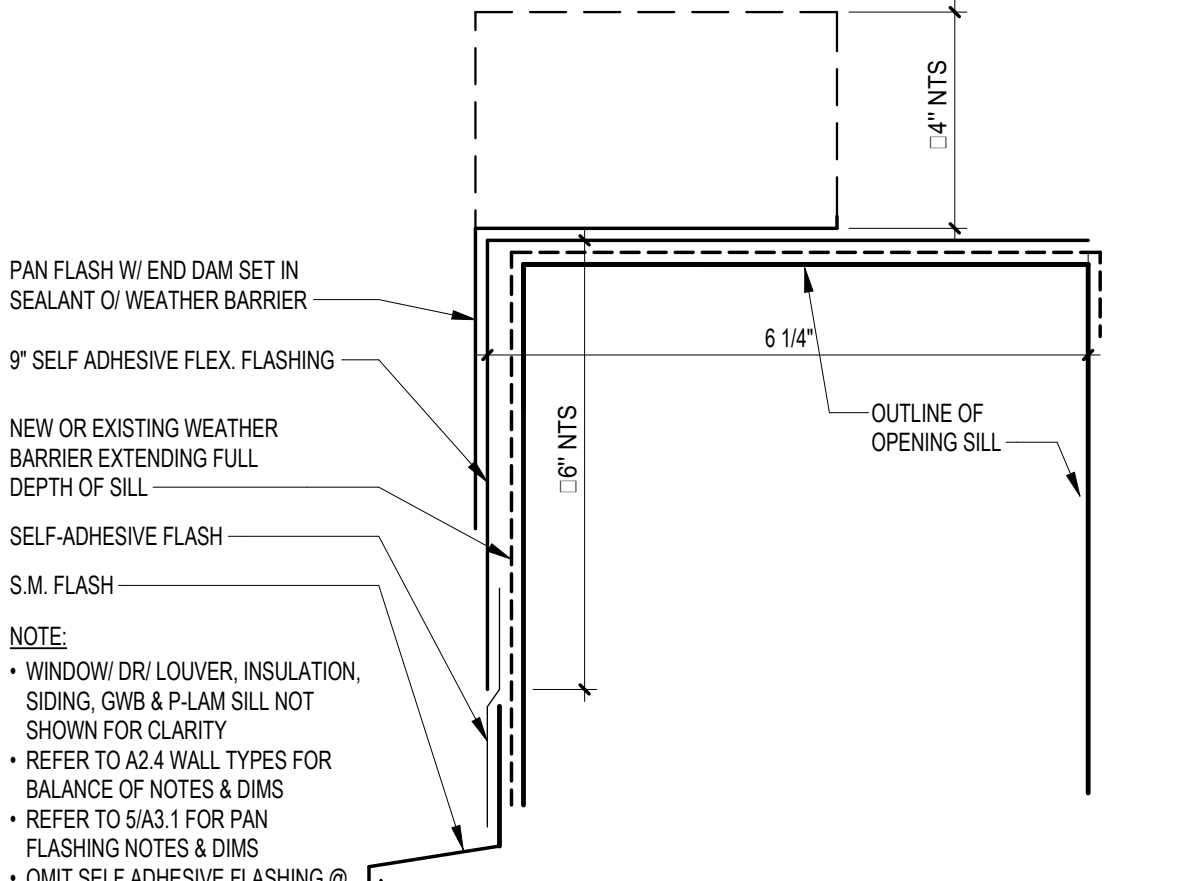
22 TYP. SILL FLASHING
Scale: 6" = 1'-0"



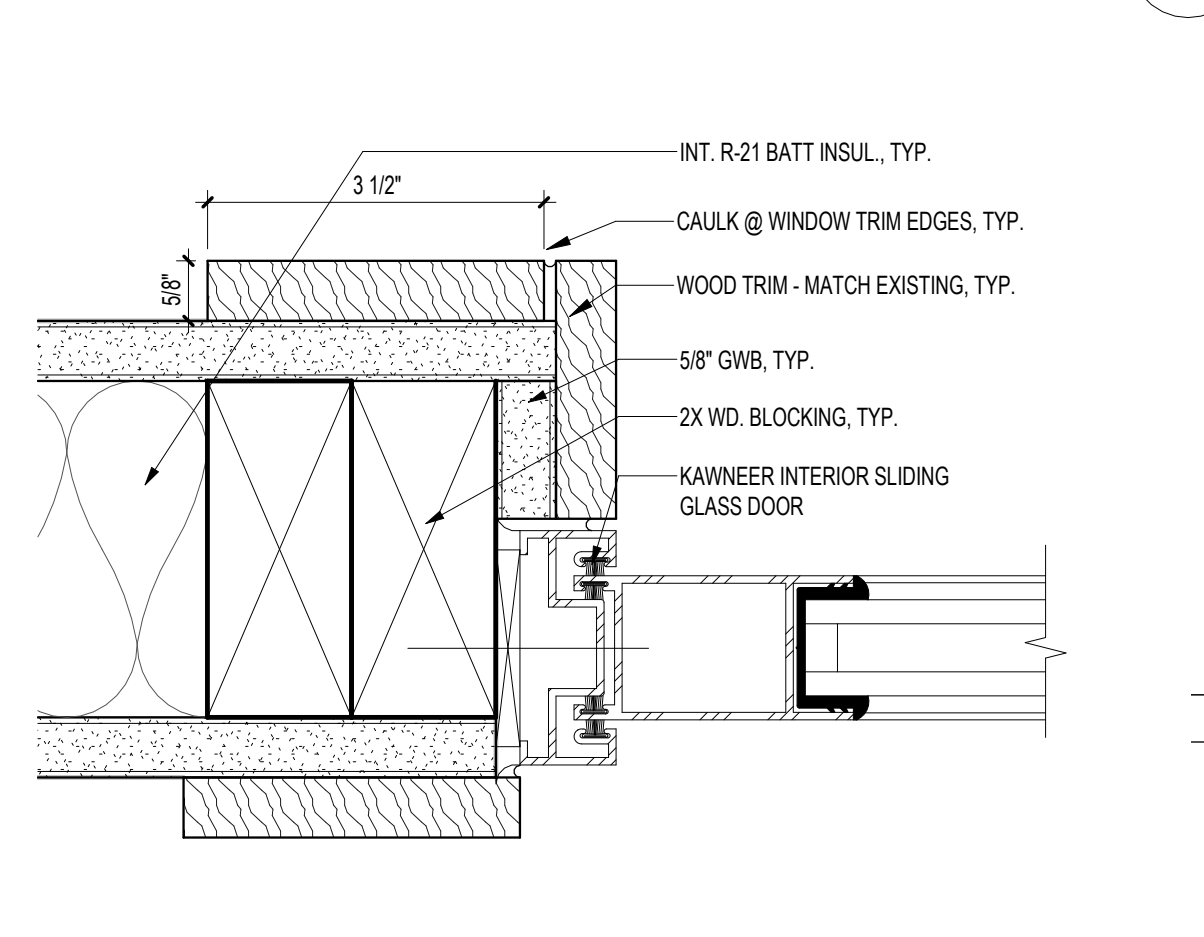
23 SLIDING GLASS DR - JAMB
Scale: 6" = 1'-0"



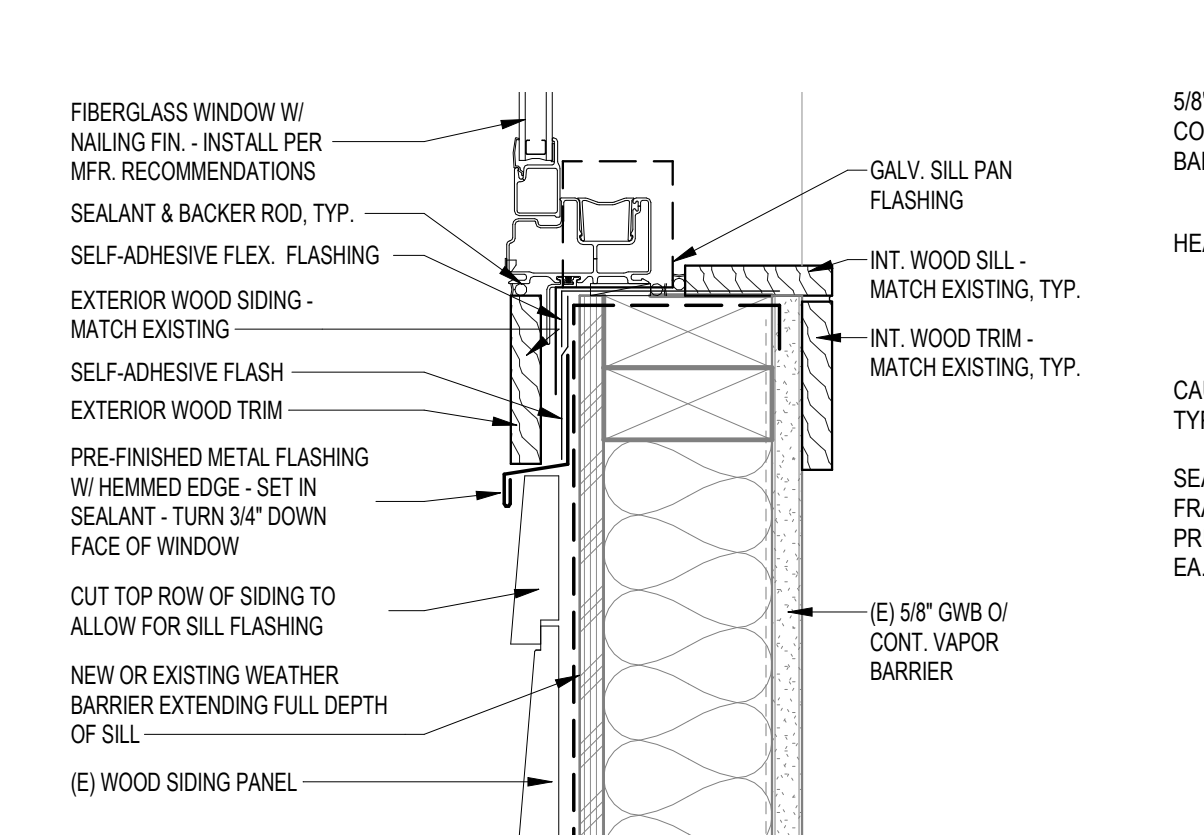
24 SLIDING GLASS DR - THRESHOLD
Scale: 6" = 1'-0"



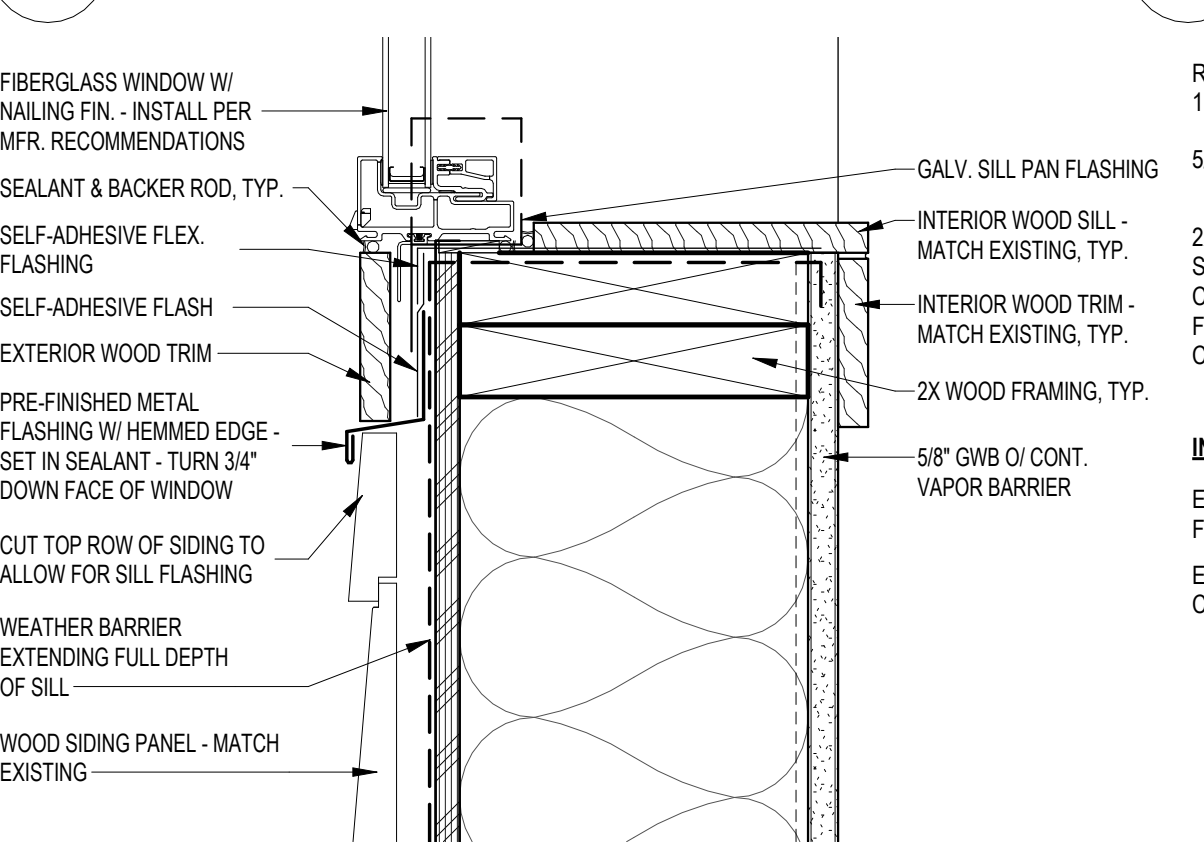
25 SLIDING GLASS DR - HEAD
Scale: 6" = 1'-0"



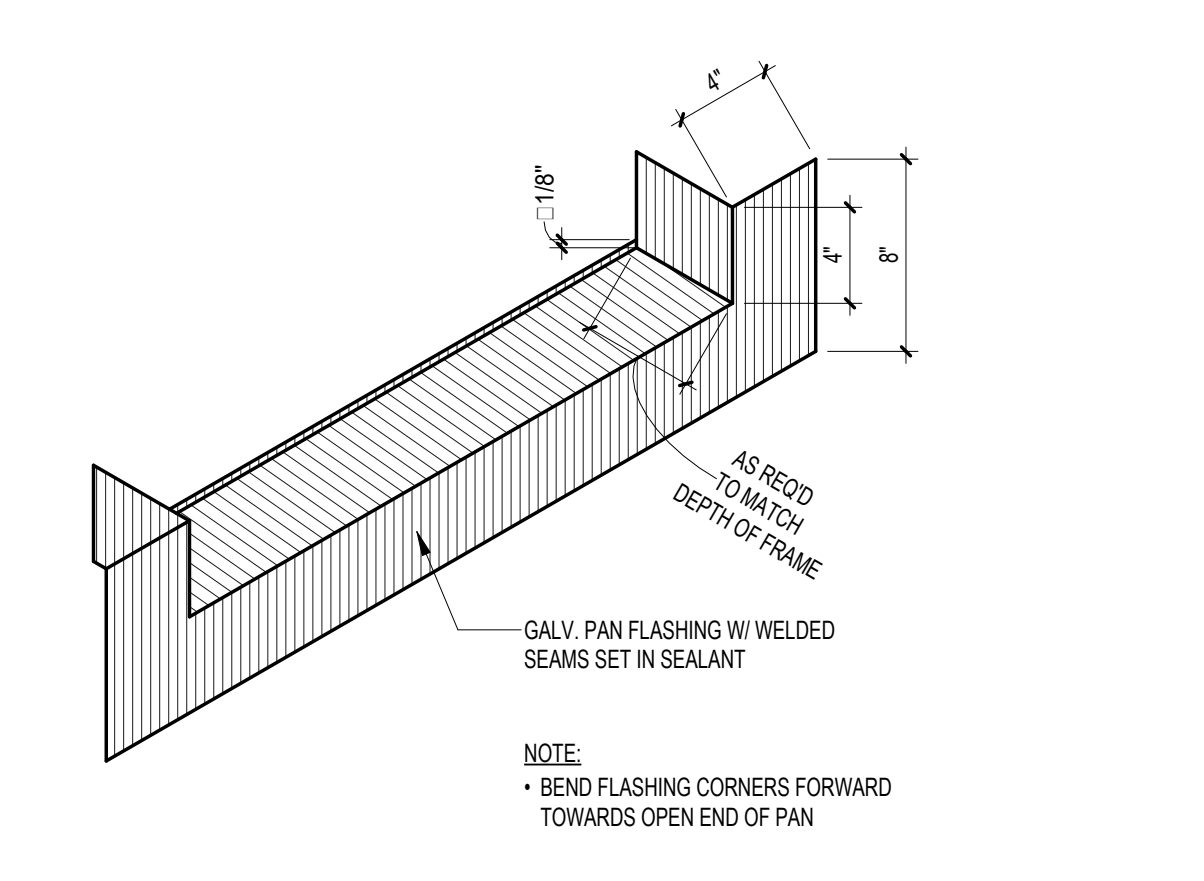
26 DOOR DTL - HEADER
Scale: 3" = 1'-0"



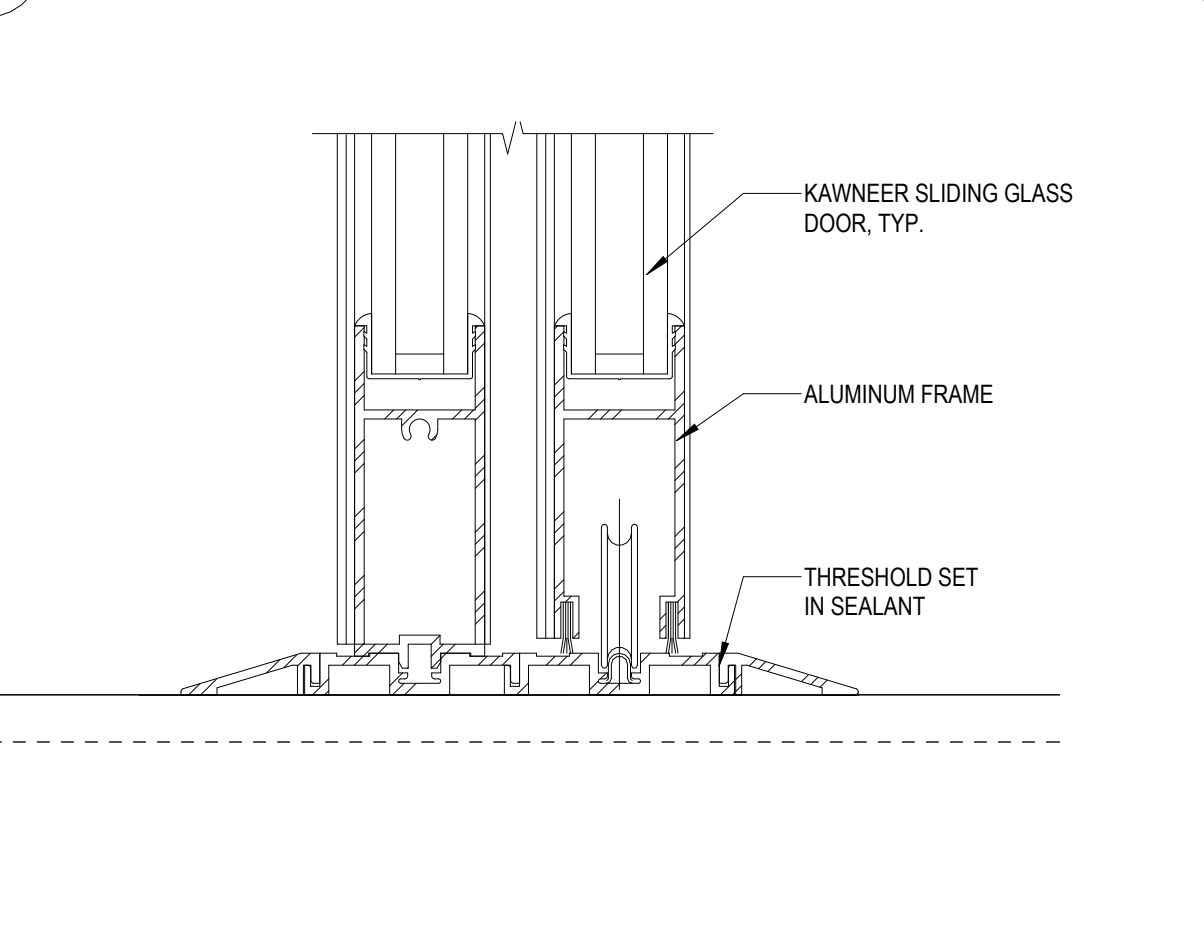
27 DOOR DTL - THRESHOLD
Scale: 3" = 1'-0"



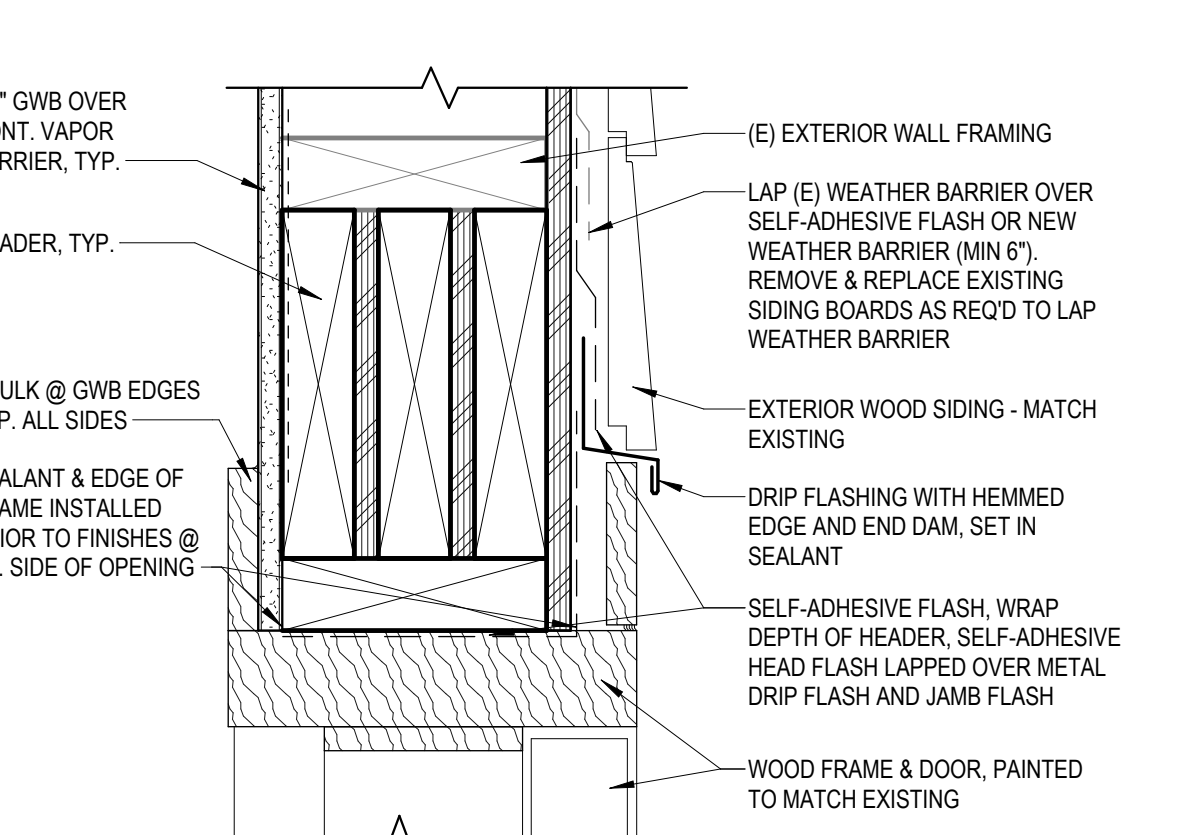
28 DOOR DTL - JAMB
Scale: 3" = 1'-0"



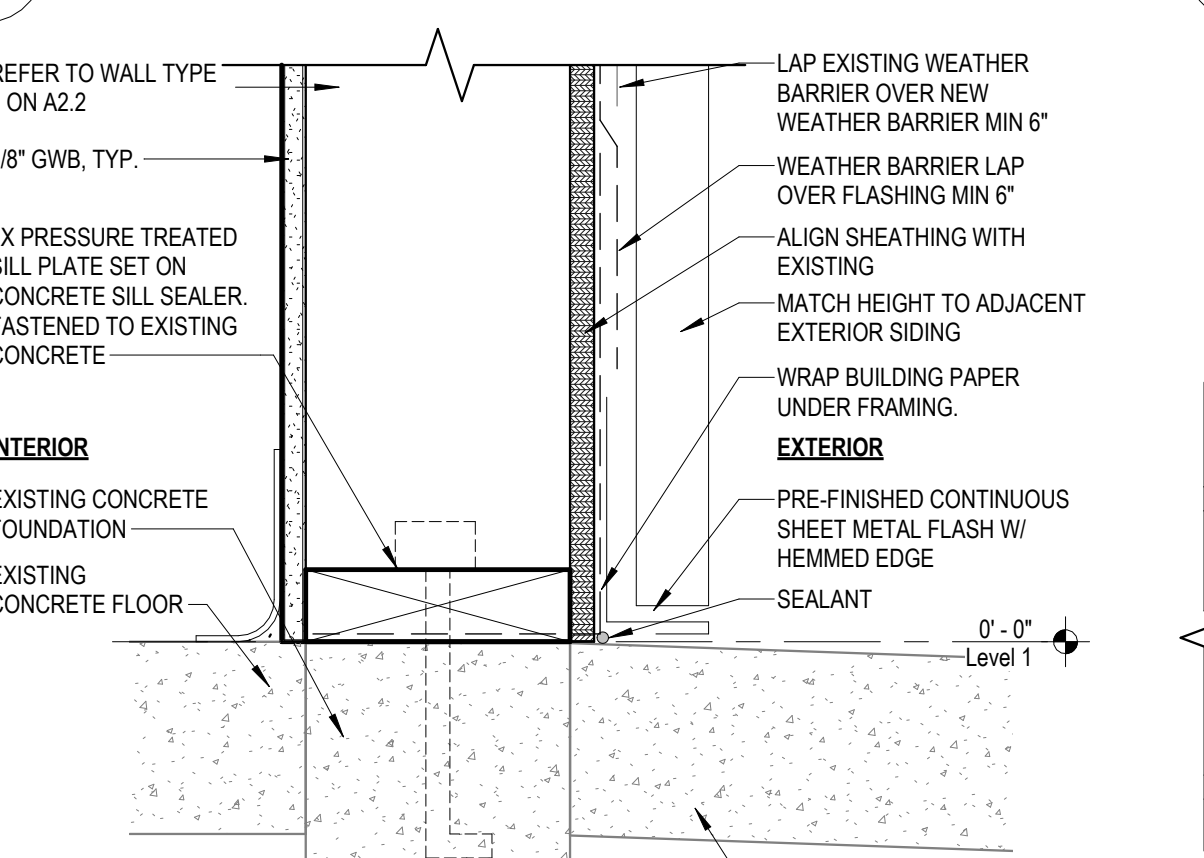
29 WALL BASE FLASHING DIAGRAM @ GRADE PAVING
Scale: 6" = 1'-0"



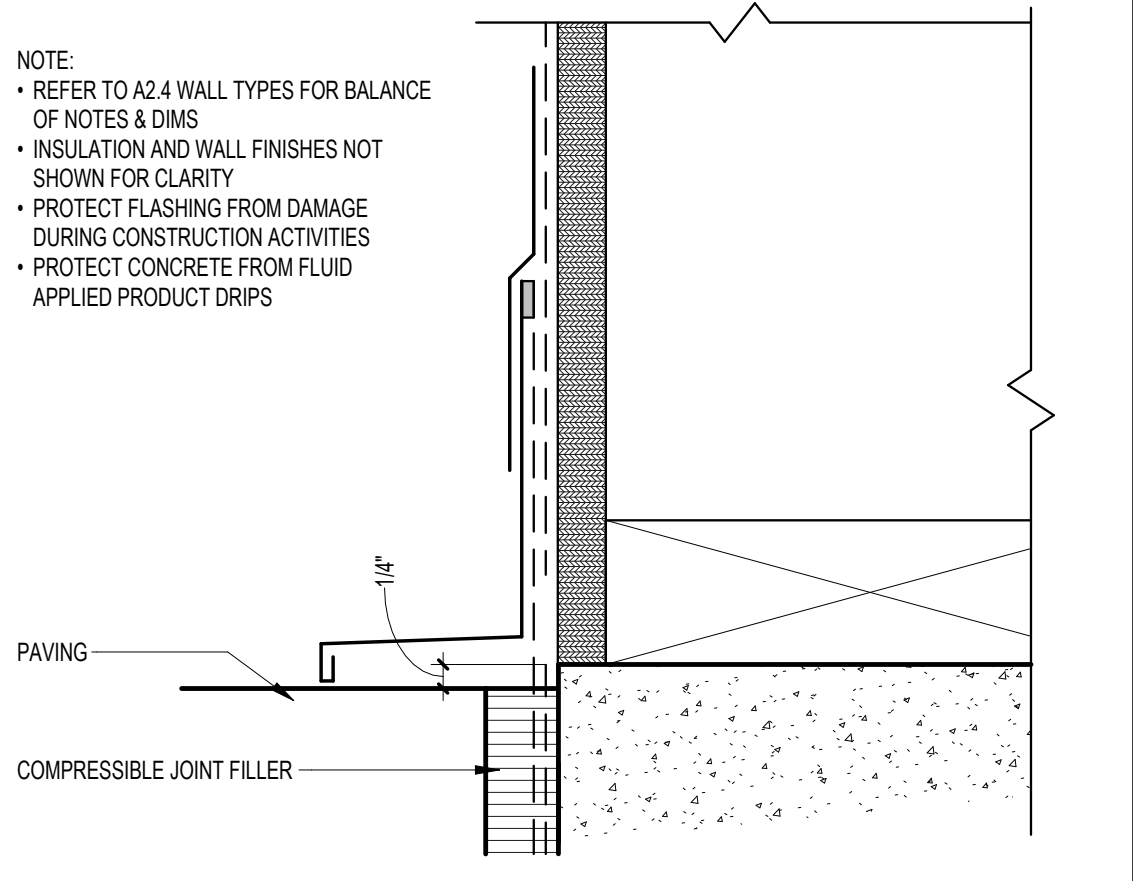
30 WALL BASE FLASHING
Scale: 6" = 1'-0"



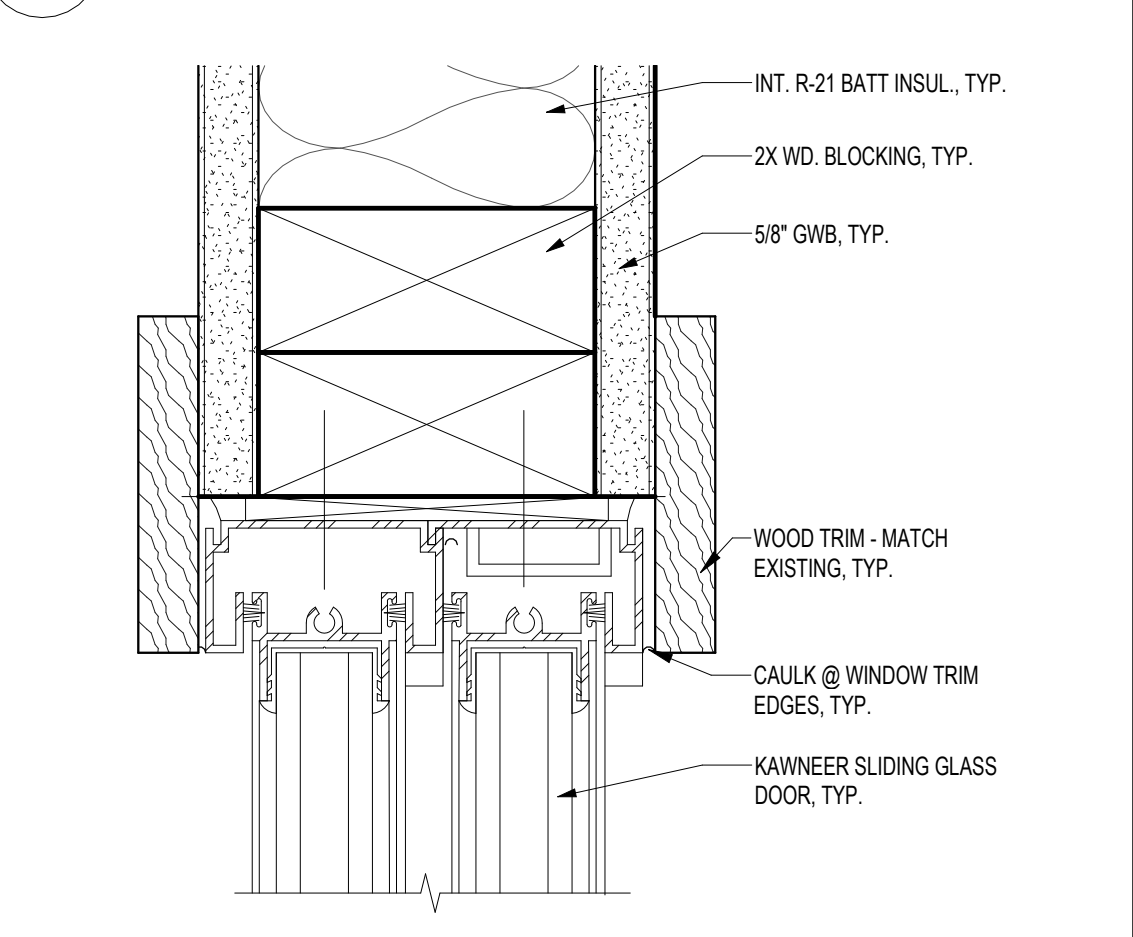
31 PICTURE WDW @ OFFICE 116 SOUTH WALL - JAMB
Scale: 3" = 1'-0"



32 PICTURE WDW @ OFFICE 116 SOUTH WALL - SILL
Scale: 3" = 1'-0"



33 WALL BASE AT EXIST. FOUNDATION
Scale: 3" = 1'-0"



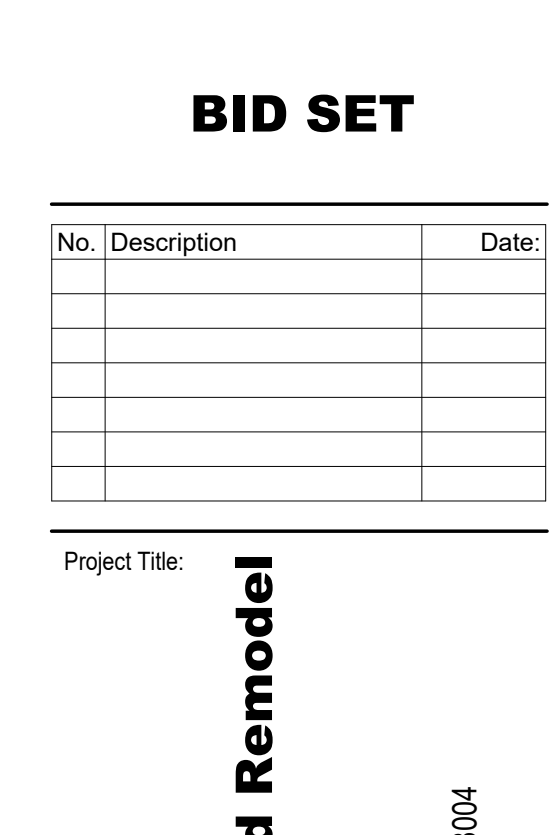
34 DOOR DTL - JAMB
Scale: 3" = 1'-0"



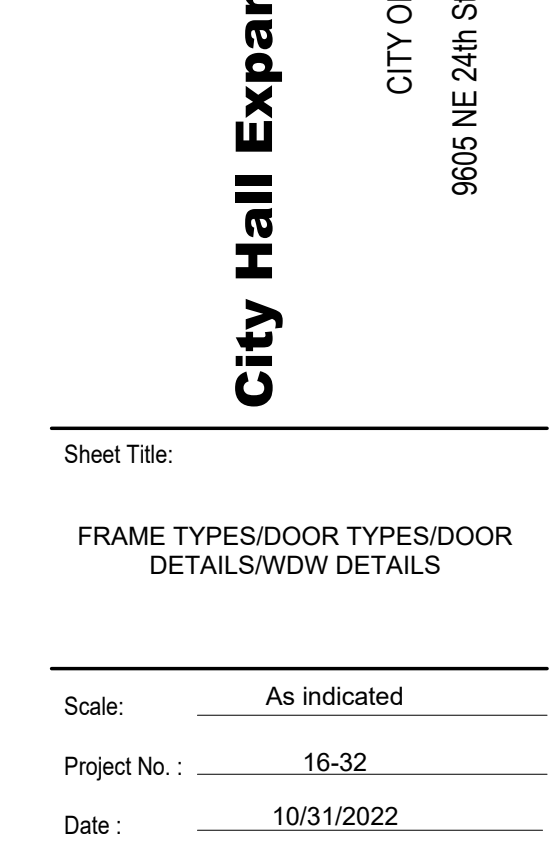
35 BID SET
Scale: 6" = 1'-0"



36 CITY OF CLYDE HILL
Scale: 6" = 1'-0"



37 CITY OF CLYDE HILL
Scale: 6" = 1'-0"



38 CITY OF CLYDE HILL
Scale: 6" = 1'-0"

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FINISH SCHEDULE												
ROOM		FLOOR		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING
NUMBER	NAME	TYPE	BASE	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL
101	OFFICE	CPT	WD	EXST	EXST	CMU/EXST	PT	EXST	EXST	EXST	EXST	GWB
107	STORAGE	EXST	EXST	EXST	EXST	EXST	PT	EXST	EXST	CMU/EXST	PT	EXST
109	RECEPTION	CPT	WD	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT
111	WORK AREA	CPT	WD	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT
116	OFFICE	CPT	WD	GWB	PT	GWB/BRK	PT/FF	GWB	PT	GWB/BRK	PT/FF	ACT
117	COUNCIL ROOM	CPT	WD	GWB	PT	GWB	PT	GWB	PT	GWB	PT	ACT
120	COUNCIL CHAMBERS	CPT	WD	-	-	-	-	-	-	-	-	-

FINISH SCHEDULE KEY

FLOOR		WALL/ WAINSCOT		CEILING	
CPT	CARPET	GB	GYPSUM WALL BD.	GWB	GYPSUM WALL BD.
EXST	EXISTING	BRK	BRICK MASONRY UNIT	ACT	SUSPENDED 2x4 ACOUSTIC CEILING TILE
CPT	CARPET			EXST	EXISTING
BASE				FINISHES	
WD	WOOD BASE			PT	PAINT
				FF	FACTORY FINISH

FINISH SCHEDULE GENERAL NOTES:

1. SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS

DOOR SCHEDULE																	
ROOM NAME	DOOR NUM.	WIDTH	HEIGHT	DOOR				FRAME									
				THICKNESS	TYPE	MTRL	FIN	GLAZ	TYPE	MTRL	FIN	GLAZ	HEAD	JAMB	THRESH	REMARKS	
OFFICE	101A	3'-0"	7'-0"	1 3/4"	A	WD	STAIN	(T/I)	1	WD	STAIN	-	1/A3.1	2/A3.1	3/A3.1	-	
OFFICE	102A	3'-0"	7'-0"	1 3/4"	A	WD	STAIN	(T/I)	1	WD	STAIN	-	1/A3.1	2/A3.1	3/A3.1		
LOBBY	116A	6'-0 13/16"	7'-2"	1 1/2"													

DOOR SCHEDULE KEY

DOOR & FRAME DESIGNATIONS	
WD	SOLID CORE WOOD
HM	HOLLOW METAL
SF	STOREFRONT
MTL	METAL
STL	STEEL
ALUM	ALUMINUM
SV	SEALED VARNISH
FAC	FACTORY FINISH
PAINT	PAINTED

GLAZING DESIGNATIONS	
T	TEMPERED
I	INSULATED
F	FIRE RATED

HARDWARE LEGEND	
PS	PASSAGE SET
MFR	PER MANUFACTURER

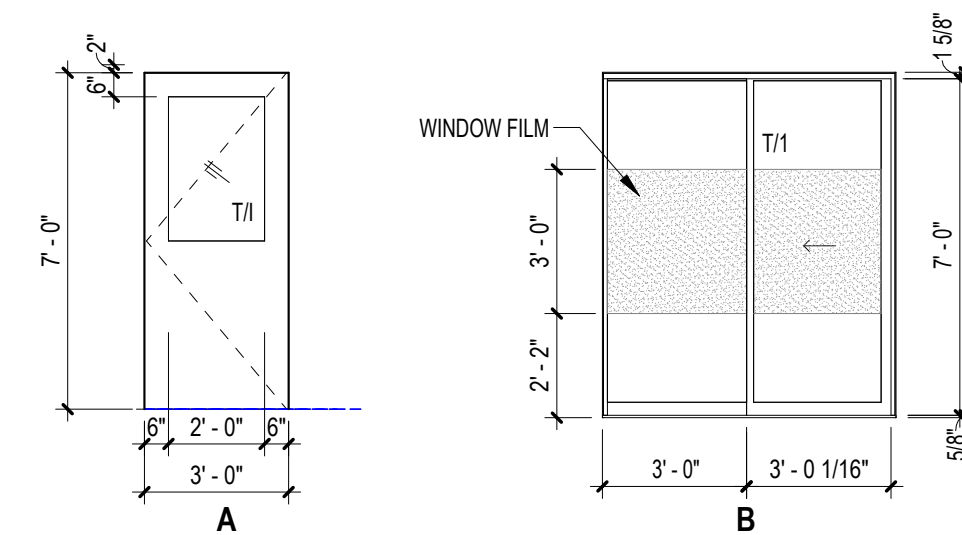
DOOR SCHEDULE GENERAL NOTES:

1. GROUT ALL FRAMES SOLID
2. REFER TO PROJECT MANUAL FOR HARDWARE SPECIFICATIONS AND SCHEDULE
3. SEE HARDWARE SCHEDULE FOR LOCATIONS OF CLOSURES
4. SEE DOOR TYPES FOR TINTED GLASS NOTES

GLAZING GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL WINDOW DIMENSIONS PRIOR TO FABRICATION
2. LOW-E COATING SHALL NOT BE LOCATED ON THE EXTERIOR SURFACES

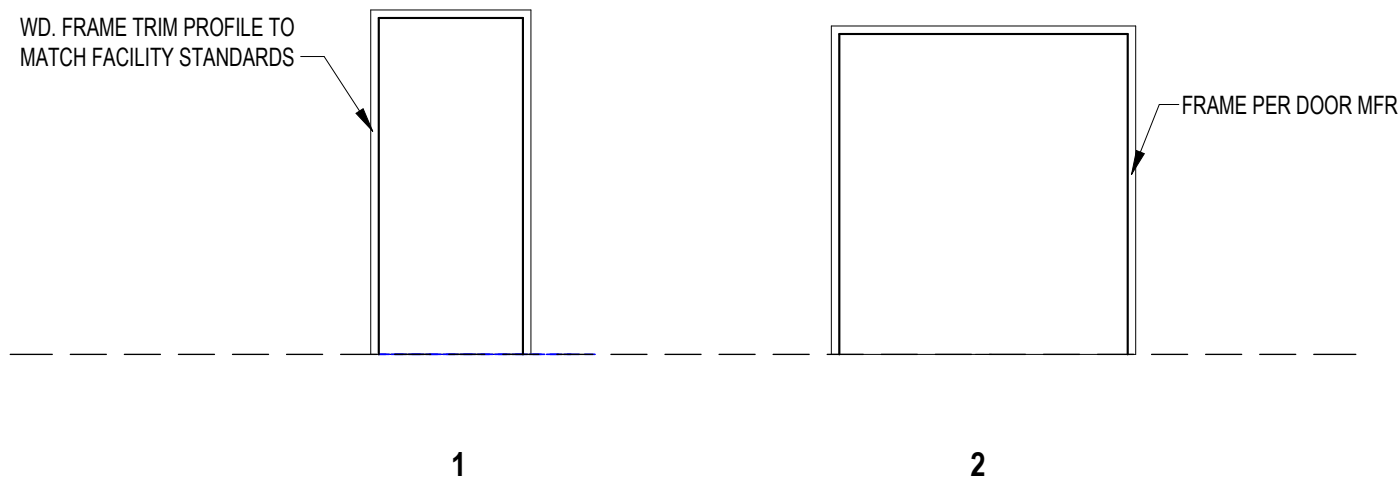
- NOTES:
1. DOOR FINISHES & HARDWARE TO MATCH EXISTING FACILITY STANDARDS



DOOR TYPE LEGEND

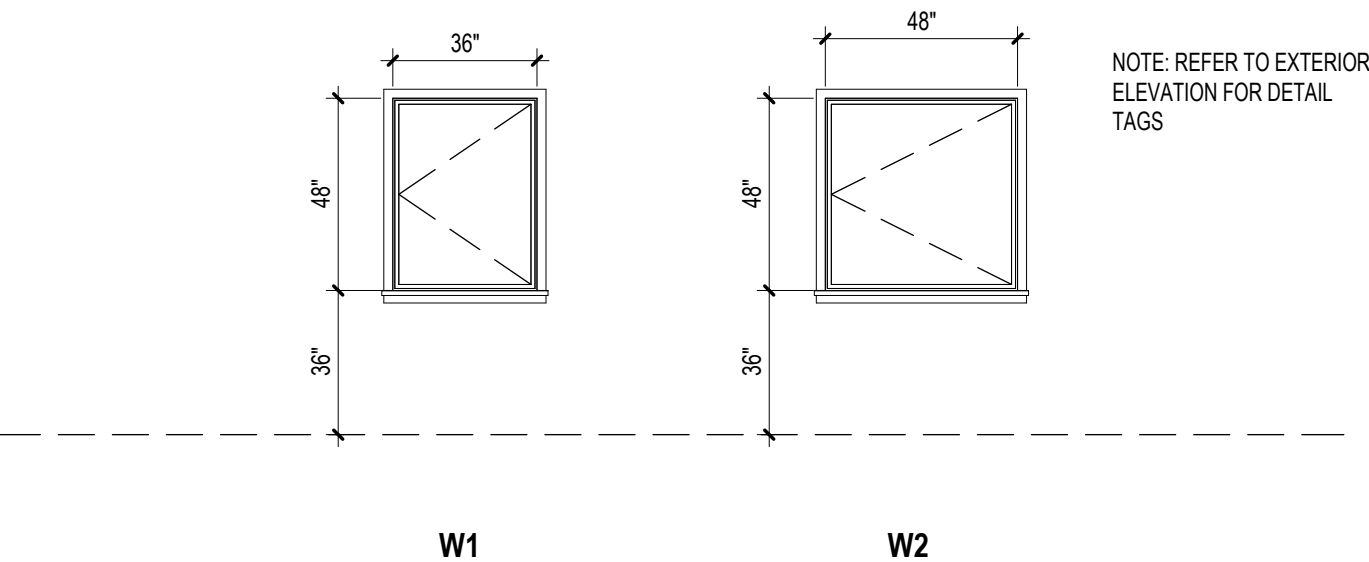
Scale: 1/4" = 1'-0"

- NOTES:
1. DOOR FINISHES AND HARDWARE TO MATCH EXISTING FACILITY STANDARDS



DOOR FRAME TYPE LEGEND

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



WINDOW TYPE LEGEND

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

INTERIOR FINISH SELECTIONS

KEY NOTE	MATERIAL	BASIS OF BID		COLOR NAME / NUMBER
FLOOR		MANUFACTURER	PRODUCT LINE	COLOR NAME / NUMBER
CPT	CARPET	EF CONTRACT FLOORING	LINE	LINE 12 FINE POINT
BASE				
WD	WOOD BASE TO MATCH EXISTING BASE			
WALLS				
PT-1	WALL PAINT COLOR 1	SHERWIN-WILLIAMS		SW 7043 WORLDLY GRAY
PT-2	WALL PAINT COLOR 2	SHERWIN-WILLIAMS		SW 7504 KEYSTONE GRAY
CEILING				
PT 03	CEILING PAINT	SHERWIN-WILLIAMS		SW 7004 SNOWBOUND
APC-1	ACOUSTIC CEILING PANEL	ARMSTRONG	ASTRO CLIMAPLUS	TBD
CASEWORK				
P-LAM 01	PEPPERDUST - COUNTERTOP WORK AREA	WILSONART	STANDARD LAMINATE	PEPPERDUST
P-LAM 02	P-LAM WORK SURFACE WORK AREA - UPPER & BASE CABINETS, RECEPTION DESK BASE CABINETS	WILSONART	PREMIUM LAMINATE	ASIAN SAND
P-LAM 03	WINDOW SILLS - MATCH EXISTING	WILSONART		TBD
SOLID SURFACE 01	SOLID SURFACE COUNTER, RECEPTION	WILSONART	SOLID SURFACE	ANTIQUE WHITE
SOLID SURFACE 01	SOLID SURFACE COUNTER, RECEPTION, ADA	WILSONART	SOLID SURFACE	ANTIQUE WHITE
MISC				
WD DOORS	WOOD DOORS			TBD
BLINDS	HORIZONTAL LOUVER BLINDS			TBD
BLINDS	BLACKOUT BLINDS MANUAL			TBD

EXTERIOR FINISH SELECTIONS

KEY NOTE	MATERIAL	BASIS OF BID		COLOR NAME / NUMBER
EXTERIOR MATERIALS		MANUFACTURER		COLOR NAME / NUMBER
	MTL PARAPET (AT EXISTING BRICK WALLS)			TBD
PAINT				
	PAINT - AWNING, COLUMNS, OVERHEAD DOOR JAMB MTL, HM DOORS AND FRAMES, TRASH ENCLOSURE	SHERWIN-WILLIAMS		TBD
MISC				
WINDOWS	FIBERGLASS WINDOWS	ALPEN		TBD
WINDOW TRIM	WOOD TRIM - MATCH EXISTING			TBD
DOWNSPOUT & SCUPPER	DOWNSPOUTS AND SCUPPERS			TBD

BID SET

No.	Description	Date:

Project Title:

City Hall Expansion and Remodel

CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

Sheet Title:

SCHEDULES AND LEGENDS

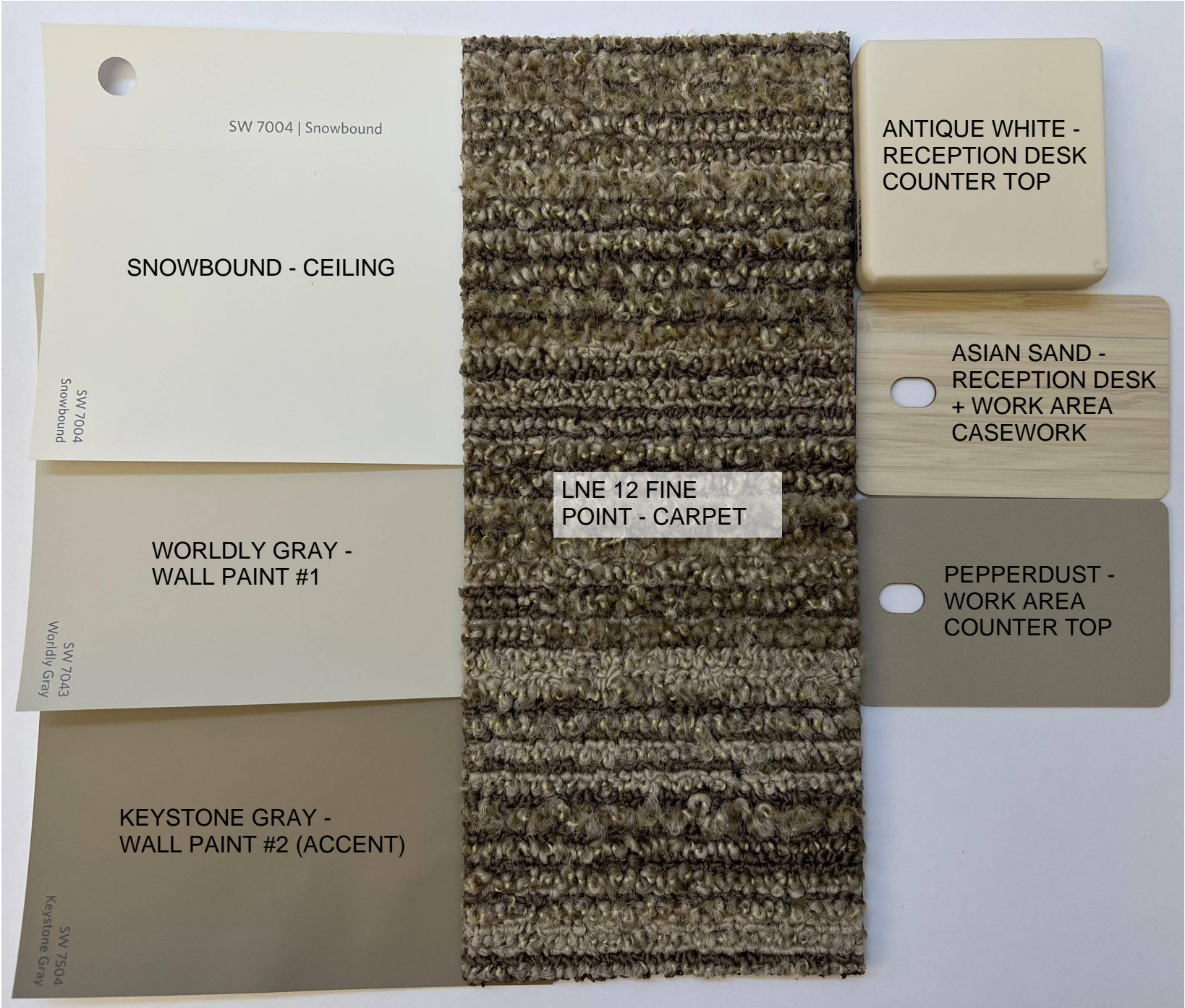
Scale: As indicated

Project No.: 16-32

Date: 10/31/2022

Sheet Number:

Interior Selections



ARCHITECTURAL SPECIFICATIONS

DIVISION 01 - GENERAL REQUIREMENTS

01 10 00 SUMMARY

- A. REFERENCE PROJECT DATA ON TITLE SHEET A2.1 OF THE CONSTRUCTION DOCUMENTS FOR A GENERAL PROJECT SUMMARY.
- B. REFERENCE GENERAL PROJECT NOTES ON TITLE SHEET A2.1 OF THE CONSTRUCTION DOCUMENTS.
- C. 1. DEFERRED, DELEGATED DESIGNED SUBMITTALS
- C. USE OF FACILITIES: CONTRACTOR WILL HAVE LIMITED USE OF FACILITIES LIMITED TO AREAS OF WORK AS DEFINED ON APPROVED CONTRACTORS PHASING PLANS.
- D. OWNER OCCUPANCY: ALLOW FOR OWNER OCCUPANCY OF PROJECT SITE THROUGHOUT CONSTRUCTION PROCESS. COOPERATE WITH OWNER DURING CONSTRUCTION OPERATIONS TO MINIMIZE CONFLICTS AND FACILITATE OWNER USAGE.
1. MAINTAIN ACCESS TO WALKWAYS, DRIVEWAYS, PARKING, ENTRANCES, ETC. AS REQUIRED BY OWNER FOR CONTINUAL OPERATIONS.
2. MAINTAIN WEATHER TIGHT CONDITION THROUGHOUT CONSTRUCTION PERIOD.
3. PROVIDE PROTECTION FOR OCCUPANTS THROUGHOUT CONSTRUCTION PERIOD.
4. REPAIR DAMAGE TO EXISTING FACILITIES THAT ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES.
5. OWNER RESERVES THE RIGHT TO USE AREAS OF CONSTRUCTION AFTER SUBSTANTIAL COMPLETION. SUBSTANTIAL COMPLETION SHALL BE DEFINED BY MEETING THE REQUIREMENTS OF OCCUPANCY BY THE GOVERNING OFFICIALS AND CONTRACTOR HAS SUBMITTED A SUBSTANTIAL COMPLETION PUNCHLIST APPROVED BY THE OWNER OR PROJECT MANAGER.
6. WORK IN THE COUNCIL CHAMBER SHALL BE SEQUENCED TO MAINTAIN IT'S USE FOR REGULARLY SCHEDULED PUBLIC MEETINGS SUCH AS CITY COUNCIL, BUDGET COMMITTEE, OR COUNCIL STUDY SESSIONS. THESE MEETINGS ARE GENERALLY HELD ON THE 2ND AND 4TH TUESDAY'S OF EACH MONTH. CONTRACTOR TO VERIFY MEETING SCHEDULE WITH THE CITY PRIOR TO START OF CONSTRUCTION

01 31 00 PROJECT MANAGEMENT AND COORDINATION

- A. REFERENCE GENERAL PROJECT NOTES ON TITLE SHEET A2.1 OF THE CONSTRUCTION DOCUMENTS.
- B. MAINTAIN CONSTRUCTION SCHEDULE TO BE REVIEWED BY OWNER AND/OR PROJECT MANAGER AT PROGRESS MEETINGS.
- C. COORDINATE PROJECT MEETINGS AS REQUIRED
1. AS REQUESTED BY THE OWNER
2. PROGRESS MEETINGS
3. PRECONSTRUCTION MEETINGS
- a. PHASING MEETING
- b. ELECTRICAL
- c. HVAC AND PLUMBING
- d. CONCRETE PLACING AND FINISHING
- e. ACP CEILING
- f. FRAMING
- g. PAINTING
- h. FLOORING
- i. HARDWARE

01 32 00 CONSTRUCTION PROGRESS DOCUMENTATION

- A. REFERENCE GENERAL PROJECT NOTES ON TITLE SHEET A2.1 OF THE CONSTRUCTION DOCUMENTS.
- B. MAINTAIN ELECTRONIC COPIES OF DAILY REPORTS TO BE REVIEWED AT PROGRESS MEETINGS OR AT THE REQUEST OF OWNER OR PROJECT MANAGER.
- C. PROVIDE DIGITAL PHOTOGRAPHS OF EXISTING CONDITIONS OF AREAS OF WORK PRIOR TO DEMOLITION.
1. PHOTOGRAPH ALL AREAS OF DISCREPANCY FOR REVIEW BY OWNER AND PROJECT MANAGER
- D. MAINTAIN A CLEAN SET OF AS-BUILT DRAWINGS ON SITE DOCUMENTING:
1. SLAB AND CURB ELEVATIONS
2. ANY AUTHORIZED CHANGES MADE TO DOCUMENTS.
3. ALL REVISED DIRT ROUTING
4. ALL REVISED PLUMBING ROUTING
5. ALL REVISED CONDUIT ROUTING

01 50 00 TEMPORARY FACILITIES

- A. PROVIDE AND MAINTAIN TEMPORARY FACILITIES AS PART OF THE CONTRACT, FOR USE BY ALL CONSTRUCTION PERSONNEL AND OTHER ENTITIES ASSOCIATED WITH THIS PROJECT.
1. CONSTRUCTION FENCING AND BARRICADES
2. SECURITY AND CONSTRUCTION SIGNAGE
3. TARPULINS AS REQUIRED
4. DRINKING WATER FIXTURES
5. FIELD OFFICE
6. STORAGE SHED/FACILITIES AS REQUIRED FOR EQUIPMENT AND MATERIAL STORAGE
7. PORTABLE UL LISTED FIRE EXTINGUISHERS
8. SELF-CONTAINED TOILET UNITS
9. TEMPORARY HVAC EQUIPMENT
10. TRAFFIC CONTROLS
11. TEMPORARY PARKING
12. WASTE DISPOSAL FACILITIES
13. LIFTS AND HOSTIS
14. TEMPORARY STAIRS
- B. COORDINATION: ARRANGE SELECTIVE DEMOLITION SCHEDULE SO AS NOT TO INTERFERE WITH OWNER'S OPERATIONS.
- C. PROPOSED PROTECTION MEASURES: SUBMIT REPORT, INCLUDING DRAWINGS, THAT INDICATE THE MEASURES PROPOSED FOR PROTECTING INDIVIDUALS AND PROPERTY FROM DAMAGE, INJURY AND, FOR DUST CONTROL AND, FOR NOISE CONTROL. INDICATE PROPOSED LOCATIONS AND CONSTRUCTION OF BARRIERS.

01 73 00 EXECUTION

- A. REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS: IMMEDIATELY ON DISCOVERY OF THE NEED FOR CLARIFICATION OF CONTRACT DOCUMENTS, SUBMIT A REQUEST FOR INFORMATION TO ARCHITECT. INCLUDE A DETAILED DESCRIPTION OF PROBLEM ENCOUNTERED, TOGETHER WITH RECOMMENDATIONS FOR CHANGING THE CONTRACT DOCUMENTS.
- B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PRE-PLAN FOR CONSTRUCTION STAGING, ACCESS, SITE MAINTENANCE AND COMPLIANCE WITH APPLICABLE CODES, LAWS AND LOCAL GOVERNING JURISDICTIONS FOR WORKING AT AN ON THE SITE.
- C. PRIOR TO BEGINNING ANY STAGE OF WORK, EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, WITH INSTALLER OR APPLICATOR PRESENT WHERE INDICATED, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE. RECORD OBSERVATIONS.
- D. EXISTING UTILITY INTERRUPTIONS: DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES ACCORDING TO REQUIREMENTS INDICATED
- E. FIELD MEASUREMENTS: TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE INSTALLING EACH PRODUCT. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.
- F. SPACE REQUIREMENTS: VERIFY SPACE REQUIREMENTS AND DIMENSIONS OF ITEMS SHOWN DIMGRAMMATICALLY ON DRAWINGS.
- G. INSTALLATION:
1. INSTALL ALL COMPONENTS REQUIRED FOR COMPLETE AND FULL INTENDED OPERATION OF EQUIPMENT, DEVICES, HARDWARE, APPLIANCES, CABINETS, ETC.
2. GENERAL: LOCATE THE WORK AND COMPONENTS OF THE WORK ACCURATELY, IN CORRECT ALIGNMENT AND ELEVATION, AS INDICATED.
3. CONCEAL PIPES, DUCTS, AND WIRING IN FINISHED AREAS, UNLESS OTHERWISE DIRECTED IN WRITING BY ARCHITECT.
4. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLING PRODUCTS IN APPLICATIONS INDICATED.
5. INSTALL PRODUCTS AT THE TIME AND UNDER CONDITIONS THAT WILL ENSURE THE BEST POSSIBLE RESULTS. MAINTAIN CONDITIONS REQUIRED FOR PRODUCT PERFORMANCE UNTIL SUBSTANTIAL COMPLETION.
6. CONDUCT CONSTRUCTION OPERATIONS SO NO PART OF THE WORK IS SUBJECTED TO DAMAGING OPERATIONS OR LOADING IN EXCESS OF THAT EXPECTED DURING NORMAL CONDITIONS OF OCCUPANCY.
7. TOOLS AND EQUIPMENT: DO NOT USE TOOLS OR EQUIPMENT THAT PRODUCE HARMFUL NOISE LEVELS.
8. ANCHORS AND FASTENERS: PROVIDE ANCHORS AND FASTENERS AS REQUIRED TO ANCHOR EACH COMPONENT SECURELY IN PLACE, ACCURATELY LOCATED AND ALIGNED WITH OTHER PORTIONS OF THE WORK.
- a. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, MOUNT COMPONENTS AT HEIGHTS DIRECTED BY ARCHITECT.
9. OWNER INSTALLED PRODUCTS: COORDINATE CONSTRUCTION AND OPERATIONS OF THE WORK WITH WORK PERFORMED BY OWNER'S CONSTRUCTION FORCES.
- H. MAINTAIN GENERAL CLEANING FREE OF DEBRIS, SPILLS, WASTE MATERIALS, AND HAZARDOUS WASTE PRODUCTS DURING CONSTRUCTION PROCESS. CONTROL DUST FROM ENTERING OCCUPIED SPACES.
- I. WASTE DISPOSAL: PER WASTE MANAGEMENT PLAN. BURNING OR BURYING OF CONSTRUCTION WASTE IS NOT PERMITTED.
- J. PROTECT INSTALLED FINISHED WORK FROM DAMAGE THROUGH FINAL COMPLETION OR UNTIL OWNER'S OCCUPANCY.
- K. TEST EACH PIECE OF EQUIPMENT FOR PROPER OPERATION.
- L. REMOVE AND REPLACE DEFECTIVE OR POORLY INSTALLED WORK AS IT OCCURS PER 01 73 29 "CUTTING AND PATCHING" REQUIREMENTS.

01 73 29 CUTTING AND PATCHING:

- A. DO NOT CUT EQUIPMENT OR STRUCTURAL ELEMENTS IN A MANNER THAT CHANGES THEIR PERFORMANCE FOR ITS INTENDED USE, OR FOR OPERATIONAL LIFE OR SAFETY.
- B. PROVIDE 2 WEEKS NOTICE FOR ANY INTERRUPTED SERVICES DUE TO CUTTING AND PATCHING PROCEDURES. NOTIFY LOCAL UTILITIES AS REQUIRED AND NECESSARY OF INTENDED CUTTING AND PATCHING OPERATIONS.
- C. DO NOT CUT AND PATCH IN A MANNER THAT SHOWS VISUAL EVIDENCE OF CUTTING AND PATCHING OR OTHERWISE DIMINISHES THE AESTHETIC QUALITIES OF THE FINISHES AS DETERMINED BY THE OWNER OR ARCHITECT.
- D. VERIFY COMPATIBILITY OF PATCHING MATERIALS AND SUBSTRATES.
- E. MATCH ADJACENT MATERIALS AND FINISHES FOR A SEAMLESS TRANSITION.

01 74 19 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

- A. DEVELOP PLAN CONSISTING OF WASTE IDENTIFICATION AND WASTE REDUCTION WORK PLAN. INCLUDE SEPARATE SECTIONS IN PLAN, FOR DEMOLITION AND CONSTRUCTION WASTE.
- B. SALVAGE AND RECYCLE AS MUCH NONHAZARDOUS DEMOLITION AND CONSTRUCTION WASTE AS POSSIBLE.
- C. MAINTAIN RECORDS OF SALES, DONATIONS, RECYCLING AND LANDFILL DISPOSAL FOR INCLUSION IN CONTRACT CLOSEOUT DOCUMENTS.
1. SALE OR DONATION OF APPROVED ITEMS IS NOT ALLOWED ON PROJECT SITE.
- D. BURNING OR BURYING OF WASTE MATERIALS IS NOT ALLOWED.

01 77 00 CONTRACT CLOSEOUT - FINAL CLEANING - FINAL COMPLETION

- A. THE GENERAL CLEANING IS REQUIRED DURING CONSTRUCTION.
- B. CLEANING: EMPLOY EXPERIENCED WORKERS OR PROFESSIONAL CLEANERS FOR FINAL CLEANING. CLEAN EACH SURFACE OR UNIT TO THE CONDITION OF A NORMAL COMMERCIAL BUILDING CLEANING AND MAINTENANCE PROGRAM. COMPLY WITH MANUFACTURER'S INSTRUCTIONS.
- C. CLOSEOUT DOCUMENTS:
1. PROVIDE (2) SETS EACH (UNLESS OTHERWISE NOTED)
- a. CLEAN AS-BUILT DRAWINGS DRAFTED IN A CLEAR, LEGIBLE FORMAT
- b. PRODUCT AND WARRANTY INFORMATION
- c. OPERATION AND MAINTENANCE MANUALS
- d. COMMISSIONING REPORT
- e. TESTING AND BALANCING
- f. PROVIDE (1) COMPLETE SET OF ALL DOCUMENTS LISTED ABOVE ON COMPACT DISKS.
2. FINAL CHANGE ORDER
3. FINAL PAY APPLICATION
4. SPECIAL INSPECTIONS REPORTS AND TESTING RECORDS
5. WASTE MANAGEMENT RECORDS
6. IF HAZARDOUS WASTE IS FOUND AND DISPOSED OF, PROVIDE FINAL CLEANUP DOCUMENTS
- D. FINAL COMPLETION:
1. ALL CONTRACTORS AND ARCHITECTS PUNCHLIST ITEMS ARE COMPLETED.
2. TURNOVER ALL CLOSEOUT DOCUMENTS

DIVISION 02 - EXISTING CONDITIONS

02 41 19 SELECTIVE DEMOLITION:

- A. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING SELECTIVE DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- B. REFER TO CUTTING AND PATCHING SECTION 01 73 29.
- C. PERFORM DEMOLITION ONLY AS REQUIRED TO COMPLETE WORK DESCRIBED IN PHASING PLAN
- D. REMOVE AND DISPOSE, SALVAGE, RECYCLE AS DESCRIBED IN APPROVED CONSTRUCTION WASTE MANAGEMENT PLAN.
1. ITEMS TO BE SALVAGED AND/OR RETAINED BY OWNER, ARE TO BE CAREFULLY REMOVED WITHOUT DAMAGE AND IMMEDIATELY TURNED OVER TO THE OWNER.
2. ITEMS OF INTEREST OR VALUE TO OWNER THAT MAY BE ENCOUNTERED DURING SELECTIVE DEMOLITION REMAIN OWNER'S PROPERTY.
- E. PROVIDE TEMPORARY SHORING, BRACING, AND OTHER SUPPORTS AS REQUIRED TO PREVENT STRUCTURAL MOVEMENT, COLLAPSE OR OTHER FAILURE.
- F. DEMOLITION AND REMOVAL OF ASPHALT AND CONCRETE PAVING FOR RECYCLING
1. SAWCUT PERIMETER OF AREA TO BE DEMOLISHED IN CLEAN STRAIGHT LINES, THEN BREAK UP AND REMOVE.
- G. DEMOLITION AND REMOVAL OF BUILDING ELEMENTS FOR, SALVAGE, RECYCLING, DISPOSAL
- H. DISCONNECTING, CAPPING OR SEALING AND ABANDONING SITE UTILITIES IN PLACE.
- I. DEMOLITION & REMOVAL OF EXISTING SITE FENCING FOR INSTALLATION OF NEW SITE FENCING
- J. HAZARDOUS MATERIALS: IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK.
1. IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER UNDER A SEPARATE CONTRACT.

DIVISION 03 - CONCRETE

03 30 00 CAST-IN-PLACE CONCRETE: SEE STRUCTURAL GENERAL NOTES AND DRAWINGS

- A. SLAB ON GRADE: PER STRUCTURAL PLANS AND DETAILS
1. SUBMIT CONSTRUCTION, CONTROL, AND EXPANSION JOINT LAYOUT PRIOR TO CONCRETE WORK PRE-INSTALLATION MEETING.
2. PROVIDE ASPHALTIC JOINT FILLER MATERIAL 1/2-INCH THICK BY 1/2-INCH BELOW CONCRETE SURFACE.
3. CONCRETE EXPANSION AND CONTROL JOINT SEALANT PER SECTION 07 92 00
- B. FOUNDATIONS: FOUNDATION WALLS AND FOOTINGS-NEW
1. BLOCK OUT DEPTH OF SLAB AT OPENINGS TO ALLOW FOR SLAB POUR THROUGH OPENINGS.
2. FINISH EXPOSED SURFACES TO MATCH ADJACENT AND EXISTING FINISHES
- C. SLABS ON GRADE FINISHING: NEW AND REPAIRED AND REFINISHED
1. HARD TROWEL (THREE (3) PASSES)-TYPICAL NEW SLABS
2. DENSIFIER/SEALER ASHFORD FORMULA BY CURECRETE. SEALHARD BY L&M CONSTRUCTION CHEMICALS, INC.-NEW AND EXISTING INTERIOR SLABS
- a. VERIFY COMPATIBILITY WITH FINISHES.
- D. LIGHT BROOM FINISH AT EXTERIOR SLABS - MATCH TEXTURE TO ADJACENT SIDEWALKS.

DIVISION 04 - MASONRY

04 20 00 CONCRETE UNIT MASONRY (CMUS): SEE STRUCTURAL GENERAL NOTES AND DRAWINGS

- A. PROVIDE UNIT MASONRY THAT DEVELOPS THE NET-AREA COMPRESSIVE STRENGTHS (F_m) AT 28 DAYS. DETERMINE COMPRESSIVE STRENGTH OF MASONRY BY TESTING MASONRY PRISMS ACCORDING TO ASTM C 1314.
1. CONCRETE UNIT TYPE: 8 INCHES NOMINAL, 7-3/8 INCHES ACTUAL
- B. MANUFACTURERS: MUTUAL MATERIALS, OR EQUAL
- C. MORTAR MATERIALS:
1. PORTLAND CEMENT: ASTM C 150, TYPE I OR II, EXCEPT TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION. PROVIDE NATURAL COLOR OR WHITE CEMENT AS REQUIRED TO PRODUCE MORTAR COLOR TO MATCH ADJACENT EXISTING MORTAR.
2. HYDRATED LIME: ASTM C 210, TYPE S
3. PORTLAND CEMENT LIME MIX: PACKAGED BLEND OF PORTLAND CEMENT AND HYDRATED LIME CONTAINING NO OTHER INGREDIENTS.
4. MORTAR PIGMENTS: NATURAL AND SYNTHETIC IRON OXIDES AND CHROMIUM OXIDES, COMPOUNDED FOR USE IN MORTAR MIXES AND COMPLYING WITH ASTM C 979. USE ONLY PIGMENTS WITH A RECORD OF SATISFACTORY PERFORMANCE IN MASONRY MORTAR.
5. AGGREGATE FOR MORTAR: ASTM C 144
- a. COLOR-MORTAR AGGREGATES: NATURAL SAND OR CRUSHED STONE OF COLOR NECESSARY TO PRODUCE REQUIRED MORTAR COLOR.
- D. MASONRY CLEANER: PROPRIETARY ACIDIC CLEANER: MANUFACTURER'S STANDARD-STRENGTH CLEANER DESIGNED FOR REMOVING MORTAR/GROUT STAINS, EFFLORESCENCE, AND OTHER NEW CONSTRUCTION STAINS FROM NEW MASONRY WITHOUT DISCOLORING OR DAMAGING MASONRY SURFACES. USE PRODUCT EXPRESSLY APPROVED FOR INTENDED USE BY CLEANER MANUFACTURER AND MANUFACTURER OF MASONRY UNITS BEING CLEANED.
1. MANUFACTURER/PRODUCT - BASIS OF DESIGN: "SURE KLEAN VANATROL" AS MANUFACTURED BY PROSOCO, INC., CONCENTRATED ACID MASONRY CLEANER OR APPROVED EQUAL.

DIVISION 06 - WOOD AND PLASTICS

06 10 00 ROUGH CARPENTRY: SEE STRUCTURAL GENERAL NOTES AND DRAWINGS

- A. FRAMING WITH DIMENSION LUMBER 2X6, 2X4 INTERIOR - 19% MAXIMUM MOISTURE CONTENT AT TIME OF ENCLOSURE. PROVIDE READINGS PRIOR TO INSTALLATION OF GYPSUM BOARD
- B. PROVIDE BLOCKING/BACKING FOR CABINETS AND WALL MOUNTED EQUIPMENT, HARDWARE.
- C. SILL SEALER GASKETS
- D. GALVANIZED STEEL COLD-FORMED FRAMING OF EQUAL SIZE AND SPACING, MAY BE SUBSTITUTED FOR NON-STRUCTURAL FRAMING MEMBERS.

06 16 00 SHEATHING: SEE STRUCTURAL GENERAL NOTES AND DRAWINGS

- A. ROOF AND WALL SHEATHING, APA RATED SHEATHING

06 40 23 INTERIOR ARCHITECTURAL WOODWORK

- A. PLASTIC LAMINATE CASEWORK
1. PLASTIC LAMINATE: LITE FAIRFAX
- b. SUBSTRATE: ANSI A208.2, INDUSTRIAL GRADE MDF, FORMALDEHYDE FREE
- c. HIGH-PRESSURE DECORATIVE LAMINATE: NEMA LD3
- GRADE HGL AND HGP (1.0 MM THICK) - OTHER HORIZONTAL SURFACES
2. EXPOSED SURFACES: HIGH-PRESSURE DECORATIVE LAMINATE
3. TRIM: 3MM PVC FOR SHELVES, DRAWERS, DOORS AND COUNTERTOPS
4. COLORS AND PATTERNS: ARCHITECT WILL SELECT FROM MANUFACTURER 'S FULL RANGE OF COLORS, PATTERNS AND TEXTURES AS MANY AS SEVEN (7) DIFFERENT LAMINATES OF DISTINCT COLOR, TEXTURE AND PATTERN INCLUDING AS MANY AS (3) PREMIUM, WOOD GRAIN AND/OR METALLIC LAMINATES.
5. BASIS OF DESIGN: WILSONART OR APPROVED EQUAL
- B. SOLID SURFACE
1. FABRICATE COUNTERTOPS ACCORDING TO SOLID SURFACE MATERIAL MANUFACTURER'S WRITTEN INSTRUCTIONS AND TO THE ANIA/MACMAVS "ARCHITECTURAL WOODWORK STANDARDS"
2. COUNTERTOPS: 1/2-INCH (12.7-MM) THICK, SOLID SURFACE MATERIAL WITH FRONT EDGE BUILT UP WITH SAME MATERIAL
3. JOINTS: FABRICATE COUNTERTOPS WITHOUT JOINTS
4. BASIS OF DESIGN: WILSONART 051 OR APPROVED EQUAL
- C. HARDWARE AND ACCESSORIES:
1. BUTT HINGES: 2-3/4-INCH (70MM), 5-KNUCKLE STEEL HINGE; MADE FROM 0.095-INCH- (2.4 -MM) THICK METAL, AND AS FOLLOWS:
- a. FRAMELESS CONCEALED HINGES (EUROPEAN TYPE): BHMA A156.9, B01602, 120 DEGREES OF OPENING, SELF -CLOSING
- b. SEMI-CONCEALED HINGES FOR FLUSH AND OVERLAY DOORS: BHMA A156.9, B01361
2. WIRE PULLS: BACK MOUNTED, SOLID METAL, 4 INCHES (100 MM) LONG, 5/16 INCH (8 MM) IN DIAMETER, a. COLOR, FINISH, MATERIALS: TO BE SELECTED FROM FULL RANGE.
3. CATCHES: MAGNETIC CATCHES, BHMA A156.9, B03141.
4. DRAWER SLIDES: BHMA A156.9, B05091
- a. HEAVY DUTY GRADE 1HD-100 AND GRADE 1HD-200): SIDE MOUNTED, FULL-EXTENSION TYPE, ZINC-PLATED STEEL BALL BEARING SLIDES
- b. BOX DRAWER SLIDES: GRADE 1HD-100; FOR DRAWERS NOT MORE THAN 6 INCHES HIGH AND 24 INCHES WIDE.
- c. FILE DRAWER SLIDES: GRADE 1HD-100; FOR DRAWERS MORE THAN 6 INCHES HIGH OR 24 INCHES WIDE AND SLIDE OUT SHELVES
- d. PULL OUT COUNTER SLIDES: BASIS OF DESIGN " PROVIDE ACCURDE MODEL 9301-20 EXTRA HEAVY DUTY, FULL EXTENSION, DRAWER SLIDES, FLAT MOUNT. 500# LOAD CAPACITY, 150# LOAD CAPACITY IN FLAT MOUNT CONDITION
5. GROMMETS: 2" DIAMETER FOR CORDS VINYL, WITH REMOVABLE CAP. COLOR AS SELECTED FROM MANUFACTURER'S STANDARD COLORS.
6. SHELF PINS: ALL SHELF PINS TO BE SEISMIC DOUBLE PIN CAPTIVE SHELF SUPPORT.
7. HSP: PABLOXKABLE CAM LATCH, NORTHEAST LOCK CORPORATION, MODEL 5902, (800) 524-2575.
- a. SUPPORT BRACKETS:
- a. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. COUNTERBALANCE CONCEALED BRACKET (1 INCH), HTTP://WWW.COUNTERBALANCESHOP.COM
2. OR APPROVED EQUAL.
- B. MODEL NO.: CCH-CBCF2-24BL
1. WIDTH: 2-INCH
2. LENGTH: 24-INCH AT 24 TO 30-INCH COUNTERS.
- C. MODEL NO.: CCH-CBCF1-18BL
1. WIDTH: 2-INCH
2. LENGTH: 18-INCH AT 18 TO 24-INCH DESKTOPS AND COUNTERS.
- d. HOT ROLLED 1/8 INCH STEEL WITH POWDER COATED FINISH.
- e. SUPPORT PLACEMENT: EVERY 16 INCHES TO 20 INCHES.
- f. COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER 'S FULL RANGE.
- D. INTERIOR WINDOW SILLS, STOCKS, APRON, AND TRIM
1. WOOD SPECIES AND CUT: WHITE OAK, PLAIN SAWN.
- a. INTERIOR WOODWORK GRADE: UNLESS OTHERWISE INDICATED, PROVIDE PREMIUM-GRADE INTERIOR WOODWORK COMPLYING WITH REFERENCED QUALITY STANDARD.
- b. VERIFICATION OF DIMENSIONS: VERIFY ALL APPROVED APPLIANCE SIZES PRIOR TO FABRICATION OF CABINETWORK, TO AVOID CONFLICT.
- c. WOOD MOISTURE CONTENT: COMPLY WITH REQUIREMENTS OF REFERENCED QUALITY STANDARD FOR WOOD MOISTURE CONTENT IN RELATION TO AMBIENT RELATIVE HUMIDITY DURING FABRICATION AND IN INSTALLATION AREAS.
- d. FABRICATE WOODWORK TO DIMENSIONS, PROFILES TO MATCH EXISTING INTERIOR TRIM

DIVISION 07 - THERMAL & MOISTURE PROTECTION

07 21 00 THERMAL INSULATION

- A. UNFACED MINERAL FIBER INSULATION
1. EXTERIOR FRAMED WALLS R-21
2. FLOORCEILING: R-38
- B. SOUND ATTENUATION BLANKETS, SEE SECTION 09 29 00
- C. VAPOR RETARDER
1. POLYETHYLENE VAPOR RETARDER 6 MILS THICK
- D. POLYISOCYANURATE BOARD INSULATION, ASTM C1289 TYPE II, CLASS 2 AND ASTM E84 CLASS B.
1. BOARD ARE EASYLY EFFICIENT RIGID INSULATION PANELS COMPOSED OF A CLOSED CELL POLYISOCYANURATE FOAM CORE BONDED ONLINE DURING A RESTRAINED-RISE MANUFACTURING PROCESS TO PREMIUM PERFORMANCE POLYMER BONDED GLASS MAT FACERS ON BOTH SIDES.
- a. AT EXTERIOR SHEATHING, R-10 UNLESS OTHERWISE INDICATED ON DRAWINGS

07 25 00 WEATHERAIR BARRIERS

- A. BUILDING WRAP: FORTIFIBER WEATHERSMART COMMERCIAL, 6 INCH LAP AT VERT. & HORIZ. WITH TAPED JOINTS
- B. SEPARATION SHEET: FORTIFIBER SUPER JUMBO TEX 60 APPLIED OF BUILDING WRAP AT MASONRY VENEER CONDITION
- C. SEAL: HORIZONTAL LAPS WITH DOUBLE SIDED TAPE
1. SINGLE-SIDED TAPE: 20 MIL BY 3 INCH WIDE LAP AND EDGE TAPE
2. DOUBLE-SIDED TAPE: 30 MIL BY 1 INCH WIDE LAP TAPE
- D. PENETRATION FLASHING: QUICKFLASH WATERPROOFING PANELS, BY QUICKFLASH WEATHERPROOFING PRODUCTS, INC.
- E. FASTENERS: MFR RECOMMENDED CORROSION-RESISTANT
- F. SEALANTS: TYPE RECOMMENDED BY MFR

07 46 00 EXTERIOR SIDING AND TRIM

- A. WOOD LAP SIDING:
1. MATERIAL: WESTERN RED CEDAR
2. SIZE: MATCH EXISTING ADJACENT SIDING
3. REUSE EXISTING SIDING WHERE POSSIBLE
4. GRADE: PREMIUM, B
5. FINISH: PRIME ALL SIDES PRIOR TO INSTALLATION AND PAINT.
- B. WOOD TRIM
1. MATERIAL: WESTERN RED CEDAR
2. SIZE: MATCH EXISTING ADJACENT SIDING
3. REUSE EXISTING SIDING WHERE POSSIBLE
4. GRADE: PREMIUM, B
5. FINISH: PRIME ALL SIDES PRIOR TO INSTALLATION AND PAINT.
- C. NON VENTED SOFFIT
1. BASIS OF DESIGN PRODUCT: HARDISOFFIT OR APPROVED EQUAL
- D. WIDTH: AS REQUIRED.
- E. LENGTH: 8'-0"
- F. WEIGHT: 1.9 LBS./SQ. FT.
- G. TEXTURE: SMOOTH.
- H. THICKNESS: 1/4"
- I. ACCESSORIES: VINYL JOINER WITH ACRYLIC BASED CAULKING
- J. FINISH: MANUFACTURER'S PRIME PLUS FACTORY PRIMING SYSTEM WITH 100% COVERAGE AND PAINT - SEE DIVISION 9 SECTION "PAINTING."

07 62 00 SHEET METAL FLASHING & TRIM

- A. METAL STEEL SHEET PER DETAILS
- B. GUTTERS - STEEL SHEET MATCHING ROOF MATERIAL
- C. DOWNSPOUTS - PRE FINISHED DOWNSPOUTS MATCHING ROOF MATERIAL

07 65 00 SELF-ADHESIVE FLEXIBLE FLASHING - ASTM E2112

- A. COLD APPLIED, SELF-ADHERING MEMBRANE COMPOSED OF CROSS-LAMINATED POLYETHYLENE FILM COATED ON ONE SIDE WITH A LAYER OF BUTYL RUBBER ADHESIVE WITH A DISPOSABLE RELEASE SHEET - 25 MIL THICKNESS MIN.
- B. MANUFACTURER: GRADE CONSTRUCTION PRODUCTS
1. GRADE "VOCOR" BUTYL SELF-ADHESIVE FLASHING OR SIMILAR, 25 MIL THICKNESS
2. GRADE "ULTRA" BUTYL SELF-ADHESIVE FLASHING OR SIMILAR, 30 MIL THICKNESS

07 92 00 JOINT SEALANTS

- A. MANUFACTURER: SONNEBORNE, TREMCO, DOW CORNING
- B. EXTERIOR JOINT SEALANTS: SILICONE
- C. EXTERIOR SHEET METAL & MISCELLANEOUS - SILICONE -CLEAR
- D. INTERIOR JOINTS AT MOISTURE AREAS- MOLD RESISTANT - SILICONE
1. AT FIXTURES - WHITE
2. OTHER-CLEAR
- E. GENERAL INTERIOR SEALANT - PAINTABLE SILICONE
- F. INTERIOR ACOUSTICAL SEALANTS AT SOUND WALLS - NON-HARDENING SILICONE ACOUSTICAL SEALANT
- G. INTERIOR CONCRETE FLOORS - SELF LEVELING 2-PART POLYURETHANE
- H. COLORS TO MATCH ADJACENT SURFACE, UNLESS OTHERWISE NOTED

DIVISION 08 - OPENINGS

08 14 16 FLUSH WOOD DOORS

- A. SOLID-CORE INTERIOR 5-PLY DOORS AN SI A208.1, GRADE LD-2
1. MANUFACTURER: VT INDUSTRIES OR APPROVED EQUAL
2. GRADE: PREMIUM WITH WDMA GRADE A FACES
3. USE NON VOC ADHESIVE
4. COMPOSITE WOOD AND AGRIFIBER MATERIALS THAT CONTAIN NO ADDED UREA-FORMALDEHYDE.
5. BONDED CORE
6. WOOD SPECIES: CUT GRAIN DIRECTION AND STAIN TO MATCH EXISTING DOORS

08 14 18 WOOD DOOR FRAME

- A. WOOD DOOR
1. MATERIAL: 1/2-INCH THICK HARDWOOD FRAME
2. WOOD SPECIES AND CUT TO MATCH EXISTING
3. ALL WOOD FRAMES SHALL BE MACHINED BY THE MANUFACTURER FOR HINGES, LOOKS AND ALL HARDWARE REQUIREMENTS INCLUDING AND NOT LIMITED TO:
4. COMPLY WITH THE INSTRUCTIONS AND RECOMMENDATIONS OF THE FRAME MANUFACTURER.

08 41 13 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

- A. ALUMINUM INTERIOR STOREFRONT
1. MANUFACTURER: KAWNEER NORTH AMERICA; AN ALCOA COMPANY OR APPROVED EQUAL
2. MATERIALS
- a. ALUMINUM: ALLOY AND TEMPER RECOMMENDED BY MANUFACTURER FOR TYPE OF USE AND FINISH INDICATED
- b. STEEL REINFORCEMENT: MANUFACTURER'S STANDARD ZINC-RICH, CORROSION-RESISTANT PRIMER, COMPY VINYL CEMENT SSPC SURF GUIDE NO. 12.00, APPLIED IMMEDIATELY AFTER SURFACE PREPARATION AND PRETREATMENT. SELECT SURFACE PREPARATION METHODS ACCORDING TO RECOMMENDATIONS IN SSPC-SP10M AND PREPARE SURFACES ACCORDING TO APPLICABLE SSPC STANDARD.
- B. FRAMING SYSTEM
- a. BASIS OF DESIGN PRODUCT: KAWNEER NORTH AMERICA; AN ALCOA COMPANY 1010 SLIDING
1. COUNTERBALANCE CONCEALED BRACKET (1 INCH), HTTP://WWW.COUNTERBALANCESHOP.COM
- GLAZING SYSTEM: RETAINED MECHANICALLY WITH GASKETS ON FOUR SIDES
- GLAZING PLANE: FRONT (OUTSIDE GLAZED)
- C. ALUMINUM FINISHES
- a. COLOR ANODIC FINISH: AAMA 611, AA-M12C22A42/A44, CLASS I, 0.018 MM OR THICKER.
- b. COLOR: PERMADEZER HARD-COAT FINISHES - 50% KYNAR. COLOR TO BE SELECTED BY FULL RANGE.

08 54 13 FIBERGLASS CASEMENT AND FIXED WINDOWS

- A. BASIS OF DESIGN: PELLA IMPERVIA
1. FACTORY-ASSEMBLED FIBERGLASS WINDOWS WITH OUTWARD-OPENING SASH INSTALLED IN FRAME AND FIXED UNITS.
2. FRAME AND SASH MATERIAL: DURACAST, 5-LAYER, PULTRUDED-FIBERGLASS MATERIAL, REINFORCED WITH INTERLOCKING MAT.
- B. FRAME:
1. TYPE: OFFSET NAIL FIN.
2. INTERIOR AND EXTERIOR FRAME: PULTRUDED, FIBERGLASS COMPOSITE WITH FOAM INSERTS.
3. OVERALL FRAME DEPTH: 3-1/4 INCHES.
4. NOMINAL WALL THICKNESS OF FIBERGLASS MEMBERS: 0.050 INCH TO 0.070 INCH.
5. FRAME CORNERS:
- a. MITERED
- b. BONDED AND SEALED WITH INJECTED THERMOSET POLYURETHANE ADHESIVE
- C. HARDWARE
1. OPERATOR:
- a. STEEL WORM-GEAR OPERATOR WITH HARDENED GEARS
- b. OPERATOR BASE: ZINC DIE CAST WITH PAINTED FINISH
- c. OPERATOR LINKAGE, HINGE SLIDE, AND HINGE ARMS: 300 SERIES STAINLESS STEEL
- d. FLOORCEILING: R-38
- e. EXTERNAL HARDWARE: SALT SPRAY EXPOSURE, ASTM B 117: EXCEED 1,000 HOURS.
2. CRANK HANDLE FINISH
- a. POLYETHYLENE VAPOR RETARDER 6 MILS THICK
- D. POLYISOCYANURATE BOARD INSULATION, ASTM C1289 TYPE II, CLASS 2 AND ASTM E84 CLASS B.
1. BOARD ARE EASYLY EFFICIENT RIGID INSULATION PANELS COMPOSED OF A CLOSED CELL POLYISOCYANURATE FOAM CORE BONDED ONLINE DURING A RESTRAINED-RISE MANUFACTURING PROCESS TO PREMIUM PERFORMANCE POLYMER BONDED GLASS MAT FACERS ON BOTH SIDES.
- a. AT EXTERIOR SHEATHING, R-10 UNLESS OTHERWISE INDICATED ON DRAWINGS
- E. PERFORMANCE REQUIREMENTS
1. WINDOWS SHALL MEET A RATING OF LC50 SPECIFICATION IN ACCORDANCE WITH ANSIA/MAN/WDA 1011.5.2A440-08.
2. WINDOW AIR LEAKAGE, ASTM E 283: WINDOW AIR LEAKAGE WHEN TESTED AT 1.57 PSF (25 MPH) SHALL BE 0.05 CFM172 OF FRAME OR LESS.
3. WINDOW WATER PENETRATION, ASTM E 547: NO WATER PENETRATION THROUGH WINDOW WHEN TESTED UNDER STATIC PRESSURE OF 7.5 PSF (42 MPH) AFTER 4 CYCLES OF 5 MINUTES EACH, WITH WATER BEING APPLIED AT A RATE OF 5 GALLONS PER HOUR PER SQUARE FOOT.
4. STRUCTURAL LOADS:
- a. WIND LOADS: AS INDICATED ON DRAWINGS
1. BASIC WIND SPEED (3-SEC GUST): 115 MPH
2. DESIGN LOADS, AS DETERMINED BY PROJECT'S STRUCTURAL ENGINEER, ON DRAWINGS OR INSERT LOADS IN SUBPARAGRAPHS BELOW. VERIFY REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. SEE EVALUATIONS.
2. EXPOSURE CATEGORY: B
3. IMPORTANCE FACTOR: 1.15
4. SEISMIC LOADS: AS INDICATED ON DRAWINGS
5. THERMAL TRANSMITTANCE: NFRC 100 MAXIMUM WHOLE-WINDOW U-FACTOR OF 0.30 BTU/SQ. FT. X H X DEG F (1.71 WSG, M X K)
6. OPTIONS IN "SOLAR HEAT-GAIN COEFFICIENT (SHGC)" PARAGRAPH BELOW ARE BASED ON ENERGY STAR REQUIREMENTS. FIRST OPTION IS FOR NORTH-CENTRAL CLIMATE ZONE, SECOND IS FOR SOUTH-CENTRAL CLIMATE ZONE, AND THIRD IS FOR SOUTHERN CLIMATE ZONE. NORTHERN CLIMATE ZONE DOES NOT HAVE A MAXIMUM SHGC.
6. SOLAR HEAT-GAIN COEFFICIENT (SHGC): NFRC 200 MAXIMUM WHOLE-WINDOW SHGC OF 0.40.

08 71 00 DOOR HARDWARE

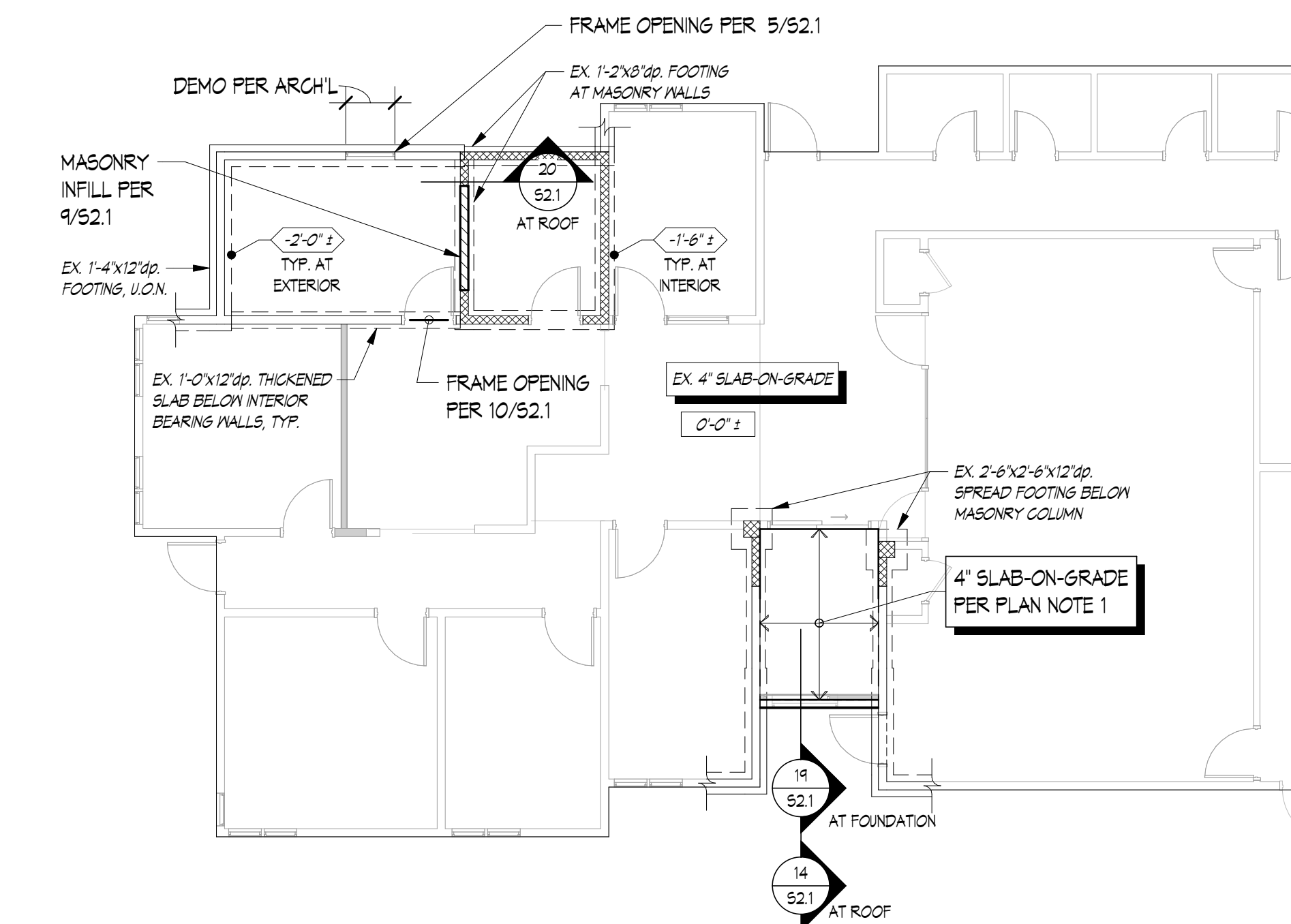
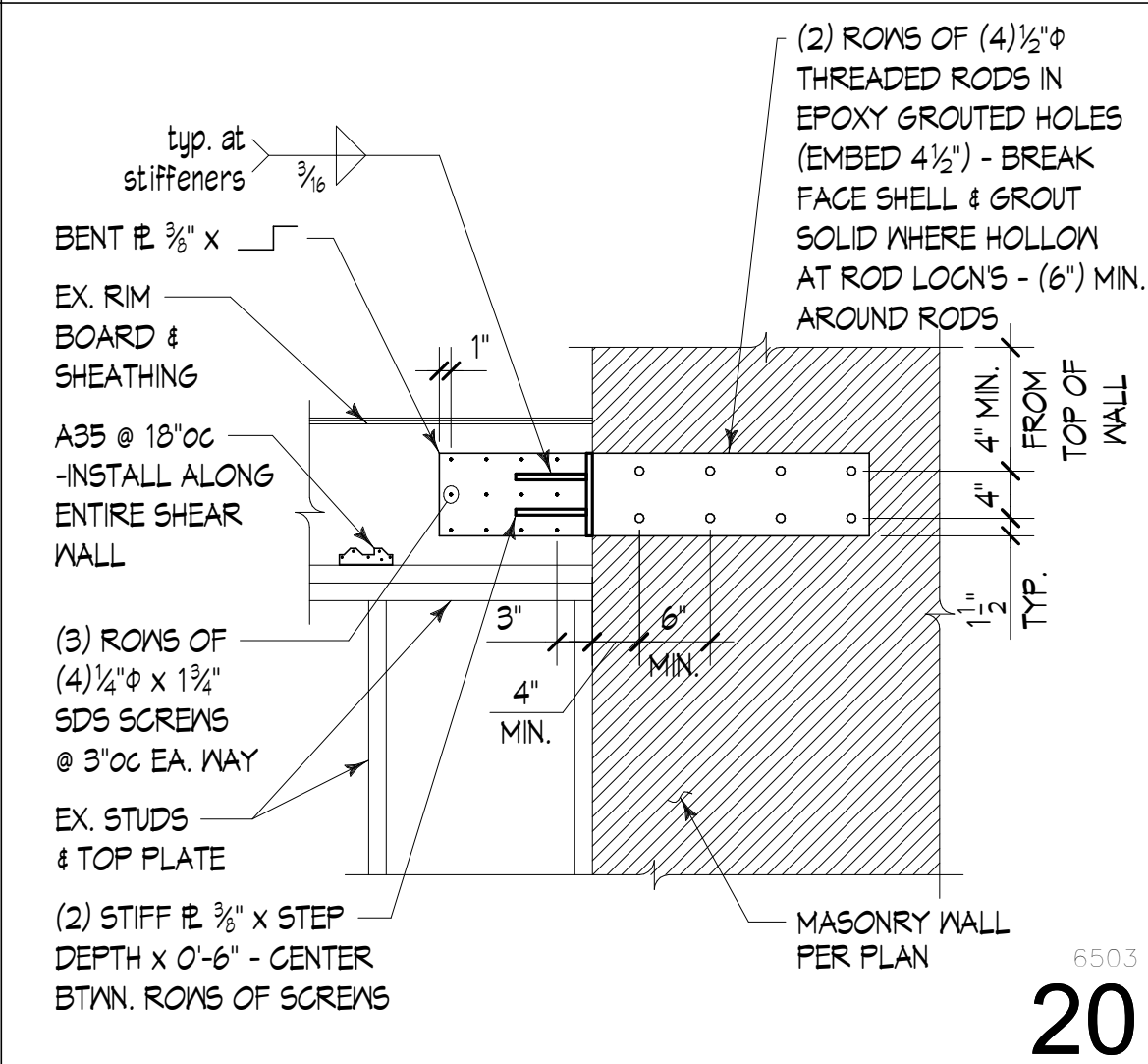
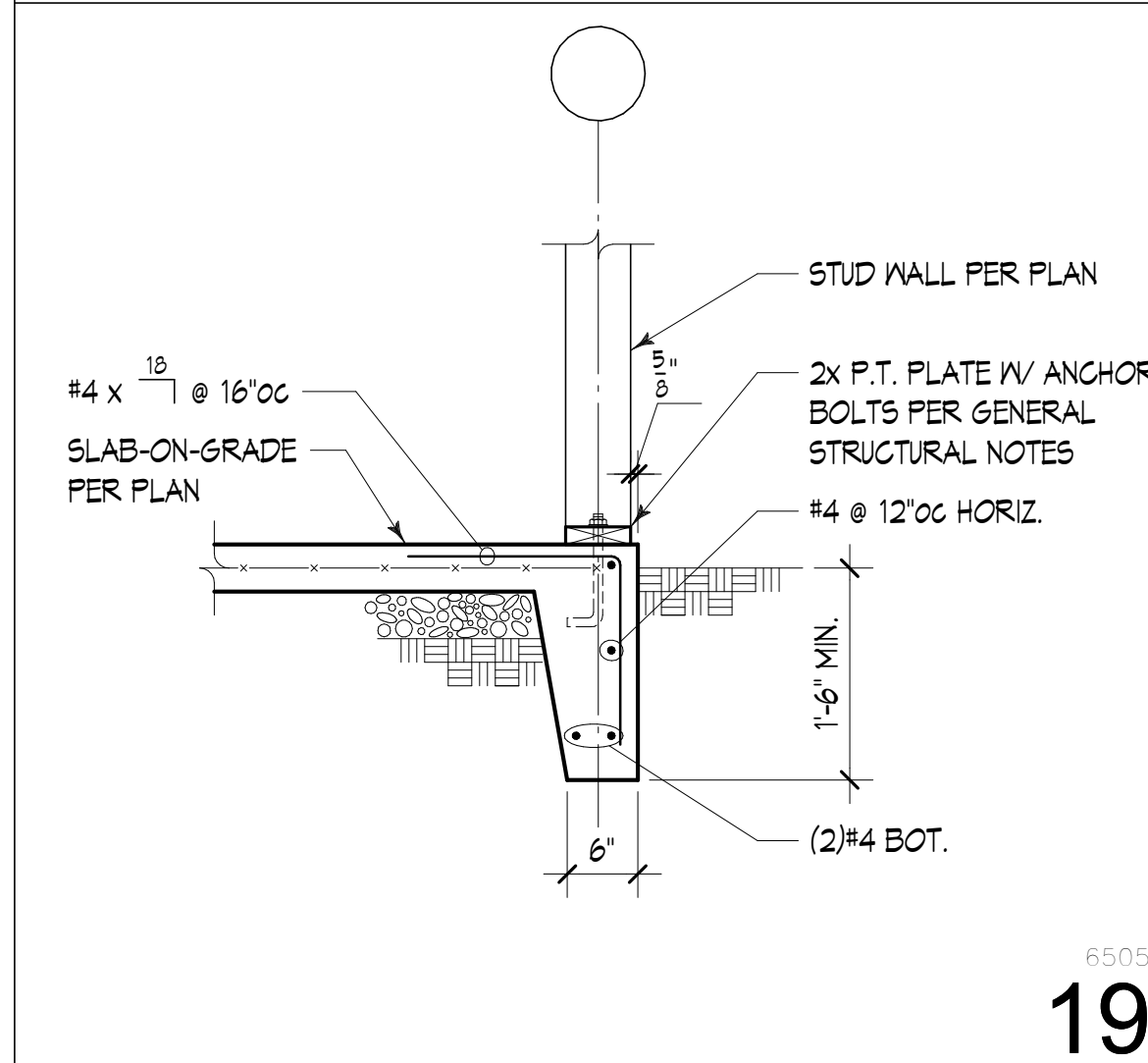
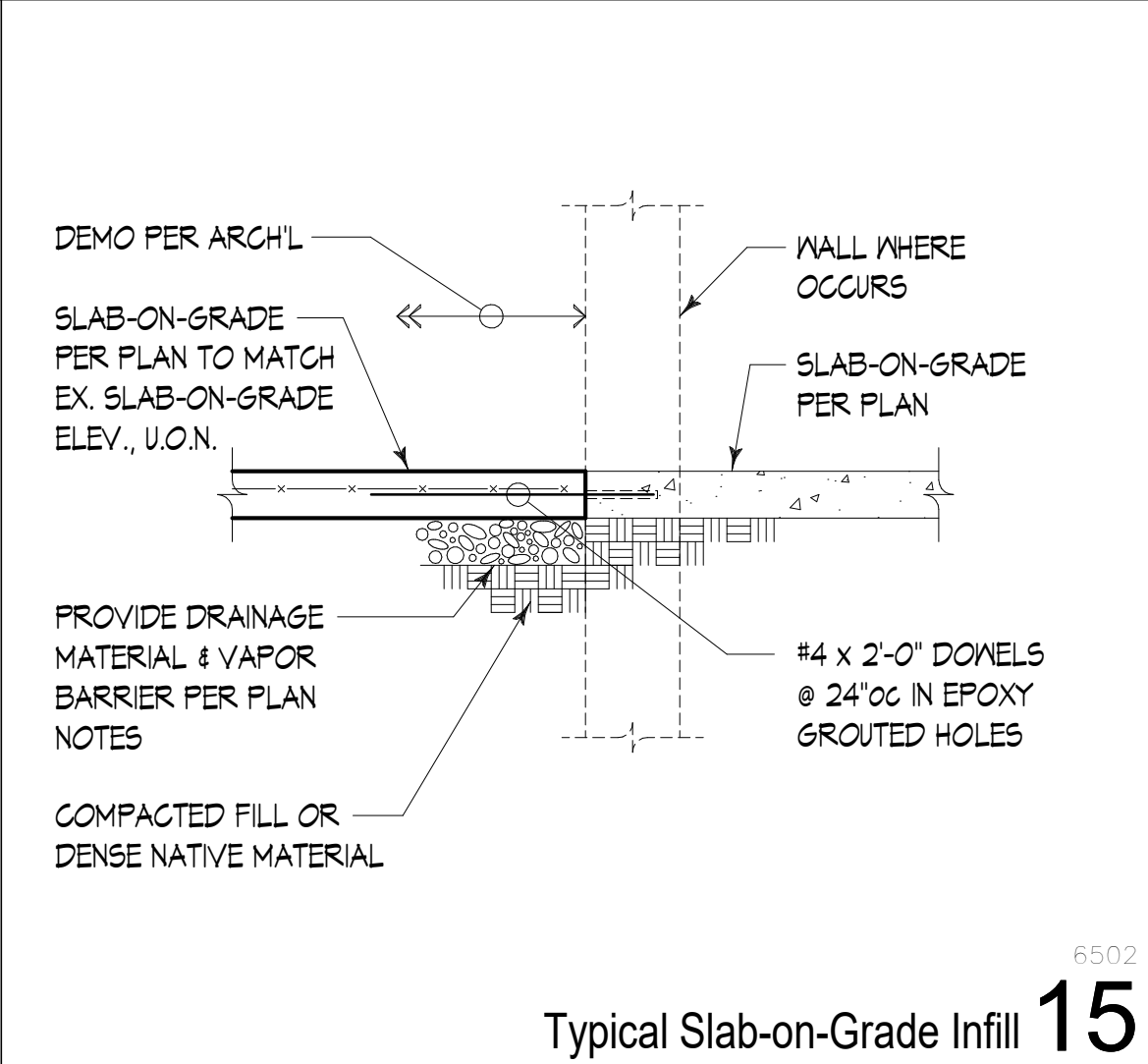
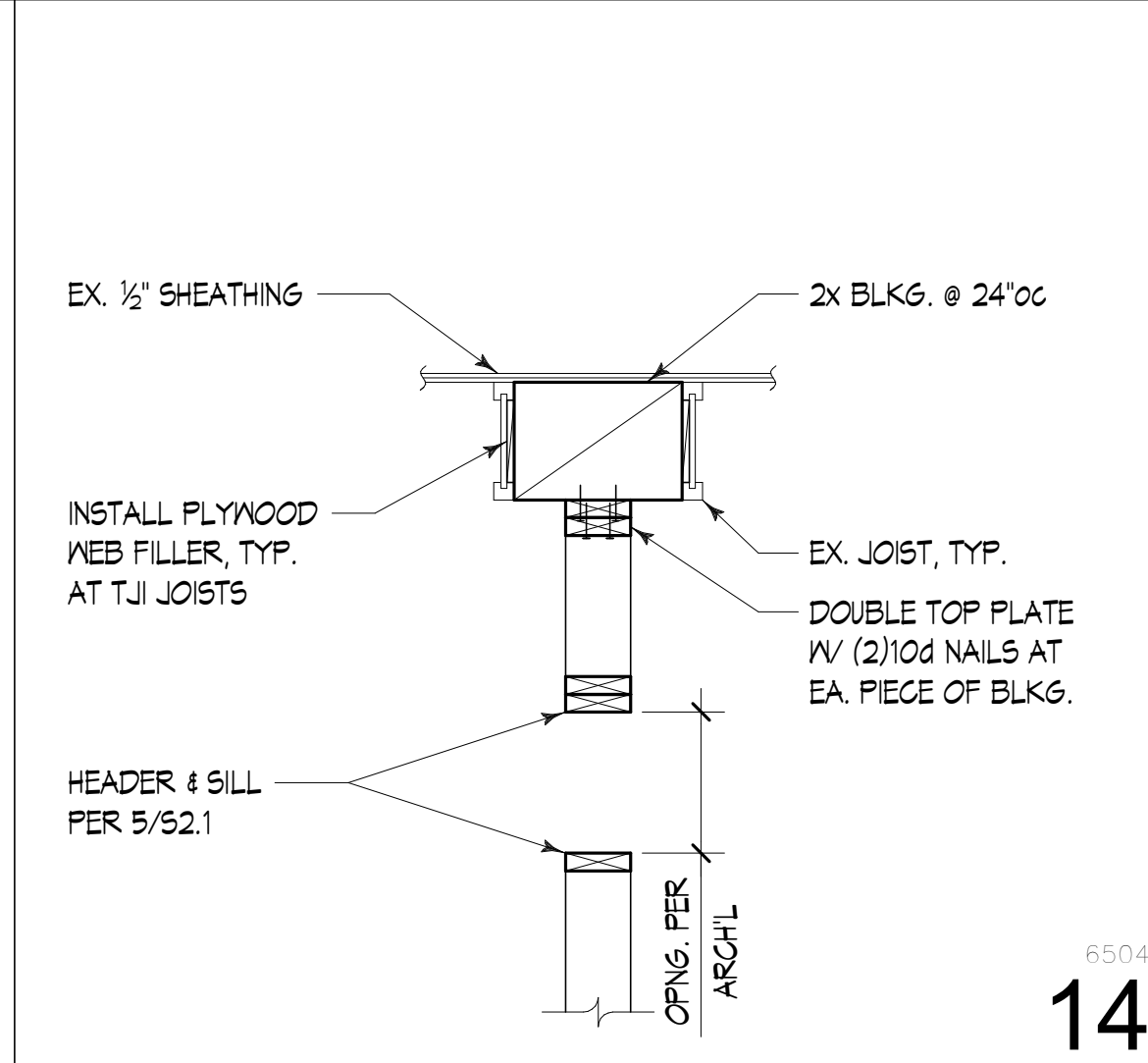
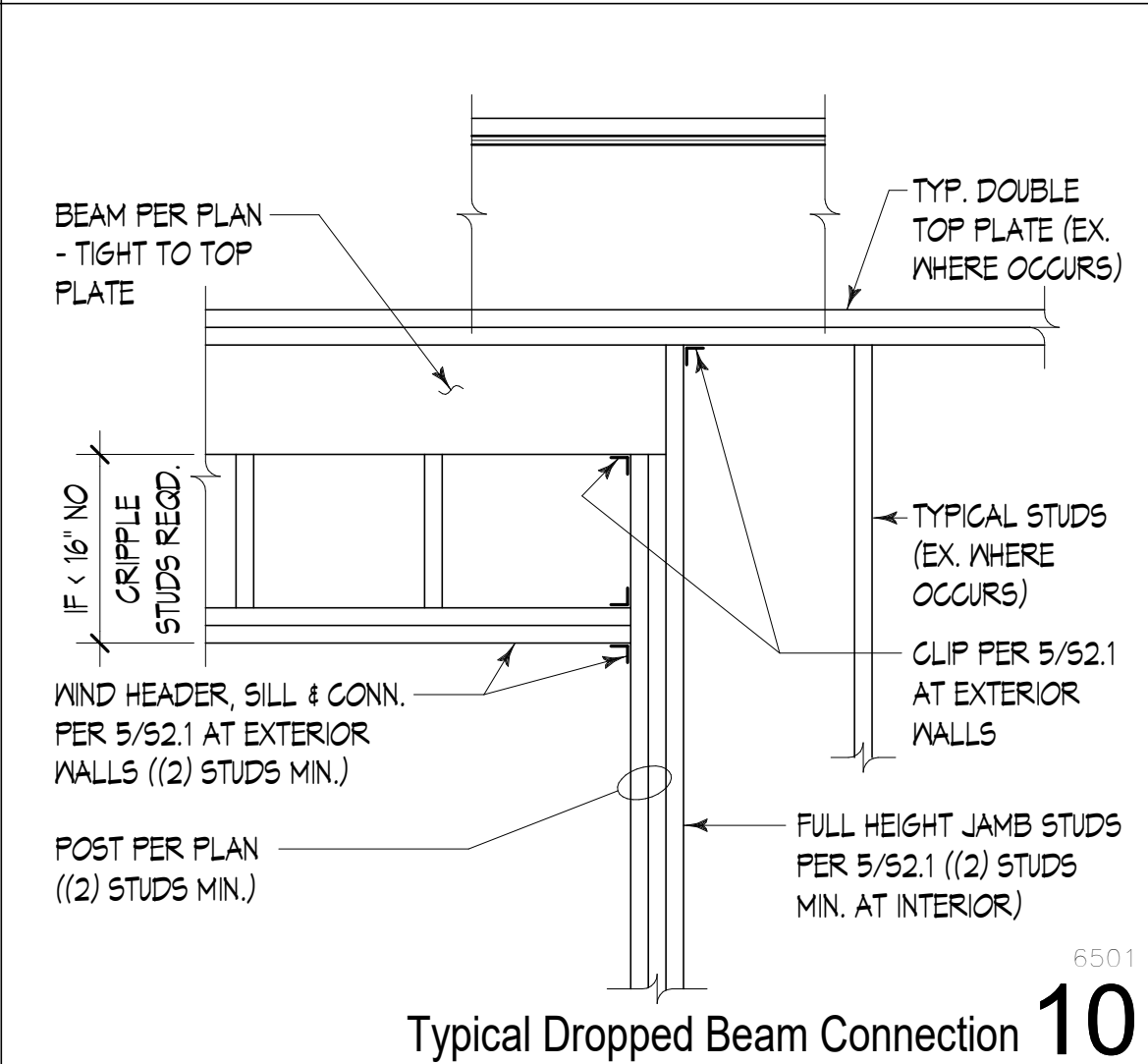
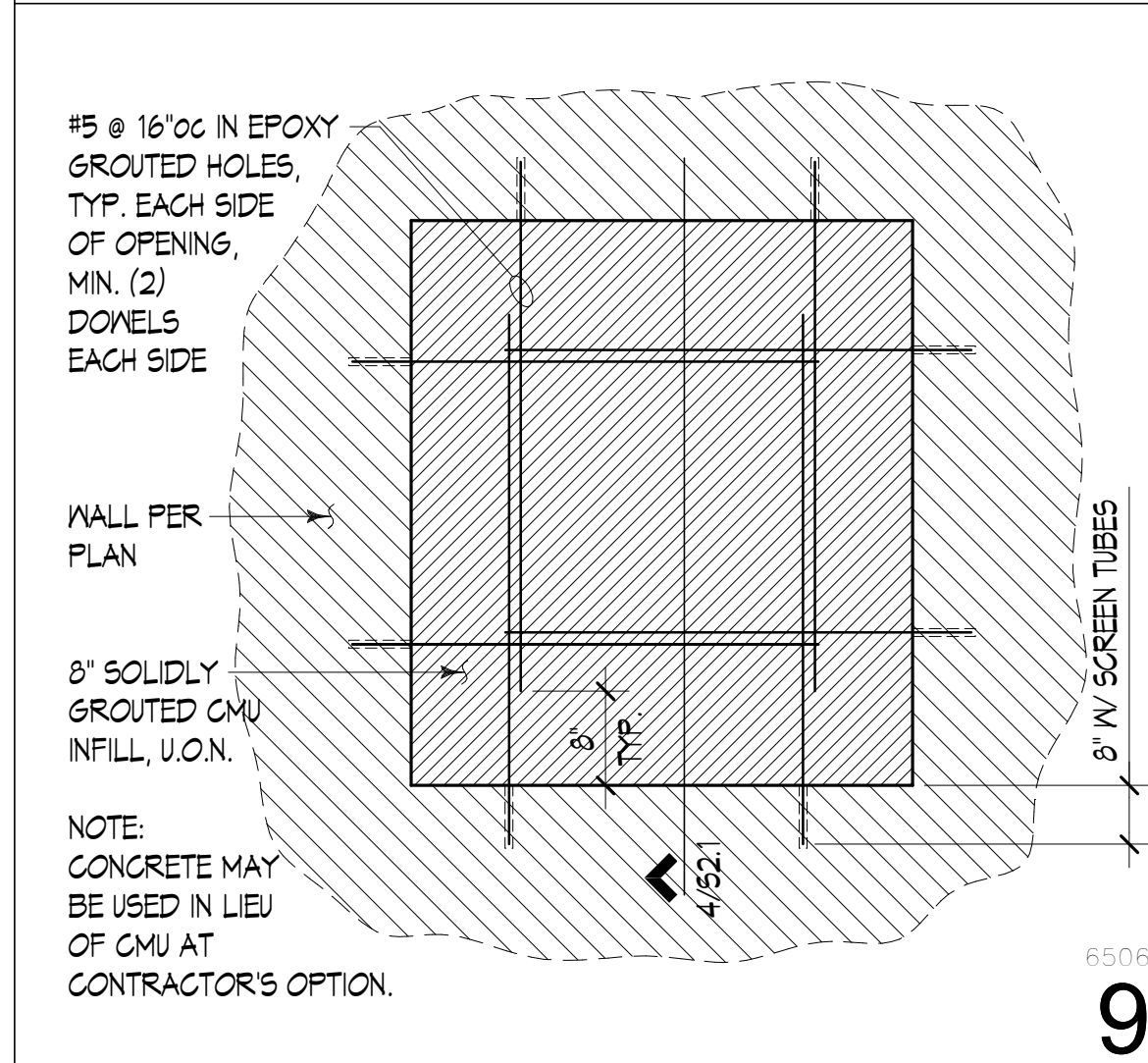
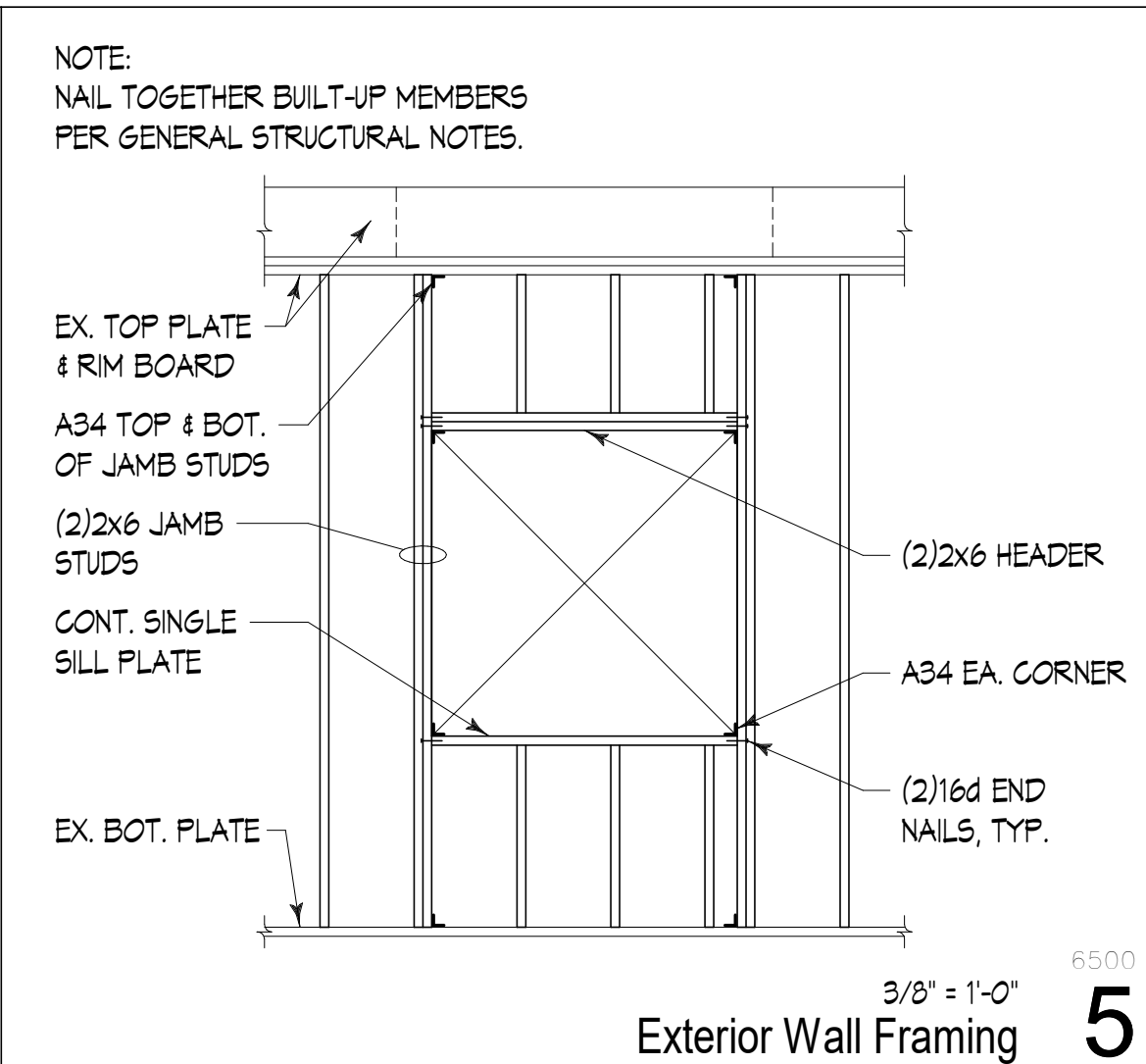
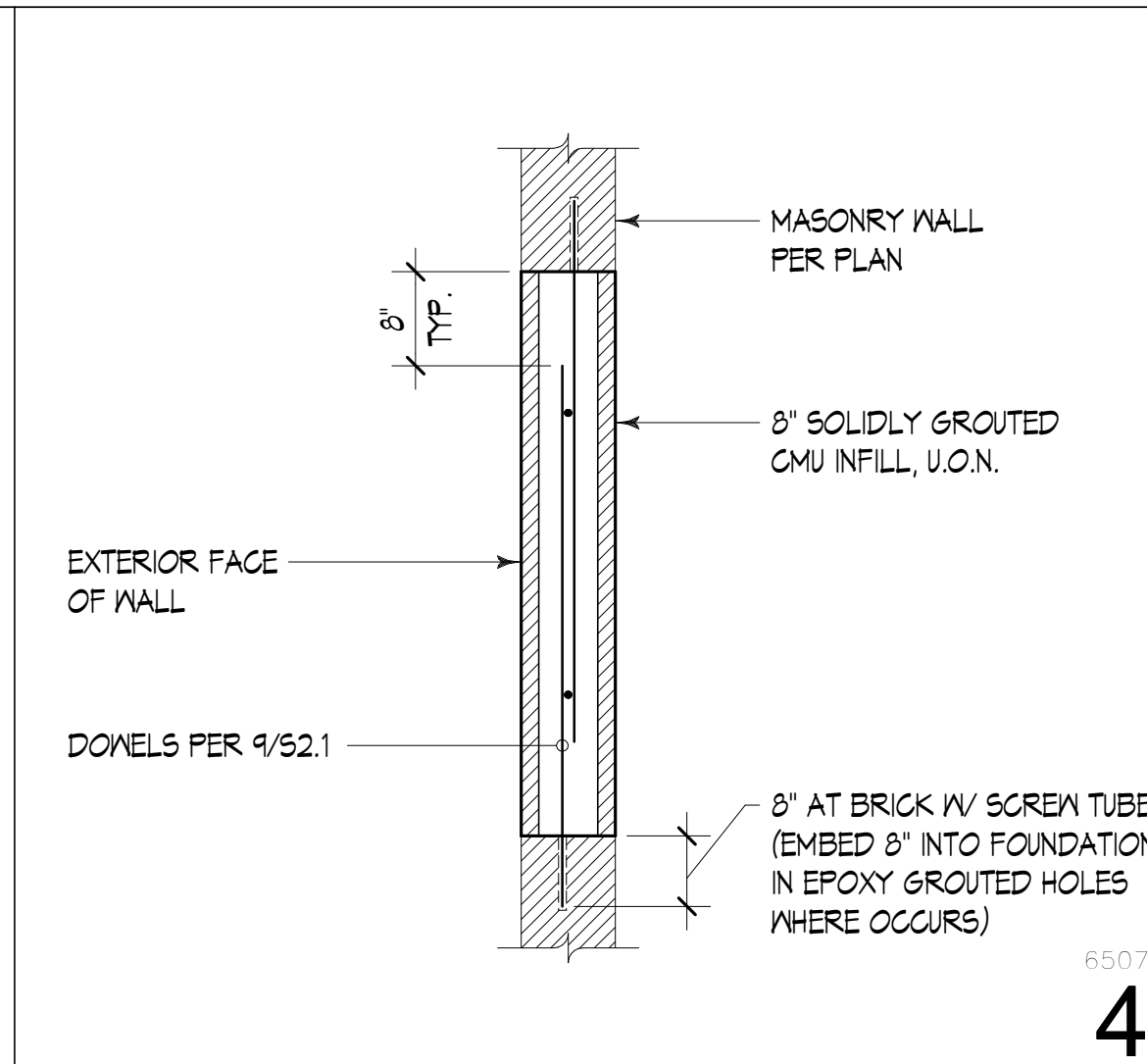
- A. FINISH HARDWARE
1. DOOR HARDWARE SET
- a. 3 HINGES CB179 4 1/2 X 4 1/2 NRP US28D ST
- b. 1 PASSAGE SET 9K3-0N14D 626BE
- c. 1 WALL BUMPER 1270WV 630TR (NOT REQUIRED ON DOOR 116A)
- d. 3 DOOR SILENCERS 1229A GREY TR
2. MANUFACTURER: TO MATCH EXISTING
3. FINISH COLOR TO MATCH EXISTING FACILITY DOOR HARDWARE
4. COORDINATE HARDWARE WITH OTHER WORK. FURNISH HARDWARE ITEMS OF PROPER DESIGN FOR USE ON DOORS AND FRAMES OF THE THICKNESS, PROFILE, SWING, SECURITY AND SIMILAR REQUIREMENTS INDICATED; AS NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION, REGARDLESS OF OMISSIONS OR CONFLICTS IN THE INFORMATION ON THE CONTRACT DOCUMENTS.

08 80 00 GLAZING

- A. GLAZING UNIT MANUFACTURERS
1. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, MANUFACTURERS SPECIFIED:
- a. GUARDIAN INDUSTRIES CORP
- b. NSG (NIPPON SHEET GLASS) POKPINGTON
- c. PPG INDUSTRIES INC.
- d. VETROTECH-SAINT GOBAIN
- e. OR APPROVED EQUAL
- B. MONOLITHIC FLOAT-GLASS UNITS
1. UNCOATED CLEAR FLOAT-GLASS UNITS: CLASS 1 (CLEAR) KIND FT (FULLY TEMPERED, WHERE REQUIRED) FLOAT GLASS.
- a. THICKNESS: 1/4 INCH (6.0 MM)
- C. INSULATING GLASS UNITS: GENERAL: FACTORY-ASSEMBLED UNITS CONSISTING OF SEALED LITES OF GLASS SEPARATED BY A DEHYDRATED INTERSPACE, AND COMPLYING WITH WINDOW MANUFACTURER REQUIREMENTS.
1. PROVIDE KIND HS (HEAT-STRENGTHENED) FLOAT GLASS IN PLACE OF ANNEALED GLASS WHERE NEEDED TO RESIST THERMAL STRESSES INDUCED BY DIFFERENTIAL SHADINGS OF INDIVIDUAL GLASS LITES AND TO COMPLY WITH GLASS DESIGN REQUIREMENTS.
2. PROVIDE KIND FT (FULLY TEMPERED) GLASS LITES WHERE TEMPERED SAFETY GLASS IS INDICATED.
3. OVERALL UNIT THICKNESS AND THICKNESS OF EACH LITE: DIMENSIONS INDICATED FOR INSULATING-GLASS UNITS ARE NOMINAL AND THE OVERALL THICKNESSES OF UNITS ARE MEASURED PERPENDICULAR FROM OUTER SURFACES OF GLASS LITES AT UNITS EDGE.
4. PROVIDE ARGON AS REQUIRED TO MEET WHOLE UNIT ENERGY PERFORMANCE
5. SEALING SYSTEM: DUAL SEAL, WITH PRIMARY AND SECONDARY SEALANTS AS FOLLOWS:
- a. PRIMARY SEAL: POLYISOBUTYLENE
- b. SECONDARY SEAL: SILICONE
- c. PROVIDE REINFORCEMENTS: TUBULAR LOW CONDUCTIVITY STAINLESS STEEL SPACER-BAR WITH SEALED CORNERS.
- D. WINDOW FILM
1. MANUFACTURER: 3M COMPANY - COMMERCIAL SOLARGLAZING DIVISION [CSG] OR APPROVED EQUAL
2. PRODUCT: CRYSTAL FROSTED DECORATIVE FILM GLAZING FILM

DIVISION 09 - FINISHES

09



18 FOUNDATION PLAN
1/8" = 1'-0"







PLAN NOTES:

1. SLAB ELEVATION SHALL BE AS SHOWN IN PLAN; ALL SLAB INFILLS, MATCH EX. SLAB ELEVATION, U.O.N. SLAB-ON-GRADE SHALL BE 4" THICK WITH 6x6 W/14X11.4 MM AT CENTER, U.O.N. PROVIDE VAPOR BARRIER PER SPECIFICATIONS BELOW SLAB AT INTERIOR SPACES OVER FREE-DRAINING CAPILLARY BREAK MATERIAL PER SPECIFICATIONS. CONNECT NEW SLAB TO EX. SLAB WITH DONNELS PER 15/52.1 WHERE EXISTING SLAB IS 3" THICK OR GREATER. ALL LOCATIONS NOT SHOWN ON STRUCTURAL. PRECISE DEMO EXTENTS TO BE DETERMINED BY CONTRACTOR. DO NOT DEMO EX. WALL AND COLUMN FOOTINGS, U.O.N.

SEE ARCHITECTURAL DRAWINGS FOR SLAB DEPRESSION AND SLOPE REQUIREMENTS.

2. STUD WALLS SHALL BE 2X STUDS @ 16"OC, U.O.N. SEE ARCHITECTURAL FOR WALL TYPES.
3. POSTS OR JAMB STUDS SUPPORTING BEAMS, SHALL BE (2) STUDS, U.O.N. NAIL STUDS TOGETHER PER GENERAL STRUCTURAL NOTES.
4. BEAMS SHALL BE 2X12 AND DROPPED PER 10/52.1, U.O.N.
5. INFILL EX. MASONRY OPENINGS PER 9/52.1 - LOCATIONS PER ARCH'L

LEGEND:

- | | |
|---|---|
|  | TOP OF EX. SLAB ELEVATION |
|  | BOTTOM OF EX. FOOTING ELEVATION |
|  | EX. MASONRY THIS LEVEL |
|  | MASONRY INFILL PER 9/52.1 |
|  | STRUCTURAL WALL THIS LEVEL
(SEE PLAN NOTE 2) |
|  | EX. STRUCTURAL WALL THIS LEVEL |

NOTE: ALL DIMENSIONS, ELEVATIONS, AND LOCATIONS OF EXISTING STRUCTURAL COMPONENTS ARE BASED ON INFORMATION GATHERED FROM ORIGINAL DRAWINGS OR CURSORY FIELD MEASUREMENTS AND ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL CONDITIONS PRIOR TO COMMENCING ANY WORK. NOTIFY ENGINEER WHERE CONDITIONS VARY FROM THOSE SHOWN.

**COUGHLIN
PORTER
LUNDEEN**

801 SECOND AVENUE, SUITE 900
SEATTLE, WA 98104
(206) 343-0460 www.cplinc.com



06/09/2

Bid Set

No.	Description	Date

Project Title:

Clyde Hill City Hall Office

Revisions

CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

Sheet Title:

FOUNDATION PLAN & DETAILS

Scale: **As indicated**

Project No. : S22026

Date : 06/09/2022

Sheet Number :

S2.1

General Structural Notes

(THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.)

CRITERIA:

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (IBC) WITH WASHINGTON STATE ADMINISTRATIVE CODE AMENDMENTS, 2018 EDITION.
2. THE EXISTING STRUCTURE HAS NOT BEEN EVALUATED OR STRENGTHENED TO CONFORM TO CURRENT SEISMIC CODE REQUIREMENTS AS PART OF THIS PROJECT SCOPE. THE ALTERATIONS SHOWN ARE IN CONFORMANCE WITH SECTION 806.3 OF THE INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2018 EDITION.

DESIGN LOADING CRITERIA:

RISK CATEGORY IBC TABLE 1604.5	II
ROOF SNOW LOAD	25 PSF (I _s = 1.0)
EARTHQUAKE (EXISTING BUILDING RENOVATION)	ASCE 41-17, BSE-1E, LIFE SAFETY S ₀ = 0.48, S ₁ = 0.15, S _{MS} = 0.68, S _{M1} = 0.34 ASCE 41-17, BSE-2E, COLLAPSE PREVENTION S ₀ = 1.0, S ₁ = 0.34, S _{MS} = 1.20, S _{M1} = 0.67 EXISTING ORDINARY REINFORCED MASONRY SHEAR WALLS AND EXISTING LIGHT FRAMED WOOD STRUCTURAL PANELS
WIND	105 MPH, EXPOSURE "B", K _{zt} = 1.3
WIND (CLADDING/ENCLOSURE ELEMENT DESIGN PRESSURES)	30/19 PSF MAX. AT WALLS (LRFD/ASD) 48/29 PSF GROSS UPLIFT AT ROOF (LRFD/ASD)
WIND PRESSURES BASED ON LESS THAN 10 SQUARE FOOT TRIBUTARY AREAS NEAR WALL CORNERS OR ROOF EDGES (EXCLUDING CORNER ZONES AT ROOF). REDUCED DESIGN PRESSURES MAY BE CALCULATED IN ACCORDANCE WITH ASCE 7-16 CHAPTER 30.	

SEE DRAWINGS FOR ADDITIONAL LOADING CRITERIA

4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND ALL OTHER CONTRACT DOCUMENTS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE BUILDING LAYOUT DIMENSIONS (GRID LAYOUTS, SITE COORDINATES, ETC.) AMONGST ALL TRADES, INCLUDING SHOP FABRICATED ITEMS.
5. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES AND CONDITIONS PRIOR TO COMMENCING ANY WORK AND PRIOR TO SUBMITTING SHOP DRAWINGS. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. THE EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED EITHER ON SITE OBSERVATION, ORIGINAL DRAWINGS OR WERE ASSUMED BASED ON EXPECTED CONDITIONS. IF THE EXISTING CONDITIONS DO NOT CLOSELY MATCH THE CONDITIONS SHOWN ON THE DRAWINGS, OR IF THE EXISTING MATERIALS ARE OF QUESTIONABLE OR SUBSTANDARD QUALITY, NOTIFY THE ENGINEER PRIOR TO COMMENCING ANY WORK.
6. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, BOTH FOR VERTICAL LOADS AND LATERAL STABILITY, FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.
8. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
9. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
10. ALL STRUCTURAL SYSTEMS COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
11. SHOP DRAWINGS FOR REINFORCING STEEL SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.
12. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

STATEMENT OF SPECIAL INSPECTIONS (STRUCTURAL):

13. STATEMENT OF SPECIAL INSPECTIONS – STRUCTURAL ITEMS (SEISMIC DESIGN CATEGORY D):

DEFINITIONS:
THE SEISMIC FORCE RESISTING SYSTEM FOR THIS STRUCTURE CONSISTS PRIMARILY OF EXISTING WOOD AND MASONRY SHEAR WALLS, WOOD DIAPHRAGMS, AND WOOD STRUT MEMBERS AS SPECIFIED ON THE DRAWINGS. SEE THE LEGEND OF PLAN SHEETS FOR ADDITIONAL INFORMATION DEFINING MEMBER LOCATIONS.

SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY THE OWNER APPOINTED INSPECTION AGENCY IN ACCORDANCE WITH CHAPTER 17 OF THE IBC WITH REPORTS PER IBC SECTION 1704.2.4 SUBMITTED TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL FOR EACH DAY SPECIAL INSPECTIONS OR TESTING IS PERFORMED. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN IBC SECTION 110. SEE TABLES BELOW FOR ADDITIONAL INFORMATION.

STRUCTURAL ITEMS	SPECIAL INSPECTION FREQUENCY	IBC REFERENCE
CONCRETE (SEE GENERAL STRUCTURAL NOTE 19 FOR ADDITIONAL REQUIREMENTS)** REINFORCING PLACEMENT	PERIODIC AND PRIOR TO ALL CONCRETE POURS	TABLE 1705.3 ITEM 1
ANCHOR BOLT PLACEMENT CONCRETE PLACEMENT*** CURING & FORMWORK PROCEDURES	PERIODIC AND PRIOR TO ALL CONCRETE POURS CONTINUOUS PERIODIC	TABLE 1705.3 ITEM 3 TABLE 1705.3 ITEM 5,6&7 TABLE 1705.3 ITEM 8,11&12

WOOD FASTENERS, BOLTS, STRAPS, HOLDOWNS, ETC.	PERIODIC FOR CONNECTIONS OF ALL MEMBERS OF THE SEISMIC AND WIND FORCE RESISTING SYSTEM INCLUDING DIAPHRAGMS, SHEAR WALLS, STRUTS, & HOLDOWNS	1705.11.1&1705.12.2****
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EXPANSION BOLTS, INSERTS & CONCRETE SCREWS	PERIODIC INCLUDING TORQUE TESTS IN ACCORDANCE WITH APPROVED ICC-ES REPORTS	TABLE 1705.3 ITEM 4
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EPOXY GROUTED RODS OR REBAR	PERIODIC INCLUDING INSPECTION OF EMBEDMENT DEPTH AND HOLE CLEANLINESS PRIOR TO ALL INSTALLATIONS (CONTINUOUS FOR UPWARDLY INCLINED ANCHORS)	TABLE 1705.3 ITEM 4, ACI 318-14 SECTION 17.8
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SOIL COMPACTION	CONTINUOUS	1705.6
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** EXCEPTIONS 1 THRU 5 PER IBC SECTION 1705.3 SHALL NOT APPLY TO CONCRETE WORK ON THIS PROJECT.
*** FREQUENCY OF CONCRETE LABORATORY TESTING SHALL BE IN ACCORDANCE WITH ACI 318-14 SECTION 26.12.2 UNLESS OTHERWISE NOTED IN THE PROJECT SPECIFICATIONS.
**** THE EXCEPTION FOR SHEATHING FASTENED AT A SPACING GREATER THAN 4"oc SHALL NOT APPLY TO WOOD FRAMING ON THIS PROJECT.

ARCH, MECH, & ELEC ITEMS	SEISMIC DESIGN REQUIREMENTS (ASCE 7-16 CHAPTER 13)	PERIODIC SPECIAL INSPECTION AS SPECIFIED PER IBC CHAPTER 17
EXTERIOR WALLS, VENEER & CLADDING	ASCE 7-16 SECTION 13.5.3	REQUIRED FOR WALL FRAMING, FOR FASTENING OF VENEER OR CLADDING EXCEEDING 5 PSF (IBC 1705.12.5)

SUSPENDED CEILINGS	ASCE 7-16 SECTION 13.5.6	INSPECTIONS PER IBC SECTION 110 AND ASCE 7 13.5.6.2.2 AS REQUIRED
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ALL OTHER MECHANICAL AND ELECTRICAL COMPONENTS	ASCE 7-16 SECTION 13.6	NOT REQUIRED
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STRUCTURAL OBSERVATION PER IBC SECTION 1704.6 IS NOT REQUIRED FOR THIS STRUCTURE.

CONTRACTOR STATEMENT OF RESPONSIBILITY: CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY IN ACCORDANCE WITH IBC SECTION 1704.4 TO THE BUILDING OFFICIAL AND OWNER PRIOR TO CONSTRUCTION ACKNOWLEDGING THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

GEOTECHNICAL:

14. FOUNDATION NOTES: ALLOWABLE SOIL PRESSURE AND SOIL PROFILE TYPE ARE ASSUMED AND THEREFORE MUST BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED, NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.

FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH AT LEAST 18" BELOW ADJACENT FINISHED GRADE. SPECIAL INSPECTOR SHALL CONFIRM THAT TOPSOILS, POOR FILL MATERIALS, AND ORGANICS ARE NOT PRESENT IN THE EXPOSED SUBGRADE. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE.

BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE.

ALLOWABLE SOIL PRESSURE	2,000 PSF
SOIL PROFILE TYPE	SITE CLASS D

ANCHORAGE:

15. EXPANSION BOLTS INTO CONCRETE SHALL BE ONE OF THE FOLLOWING INSTALLED IN STRICT ACCORDANCE WITH THE ICC-ES REPORTS INDICATED AND MANUFACTURER'S INSTRUCTIONS: "KWIK BOLT TZ" AS MANUFACTURED BY HILTI, INC. (ICC-ES NO. 1917); OR "STRONG-BOLT 2" AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. (ICC-ES NO. 3037); OR "POWER-STUD+ SD2" AS MANUFACTURED BY DEWALT (ICC-ES NO. 2502). SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICC-ES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. IN ADDITION, SUBSTITUTIONS SHALL MEET ICC-ES ACCEPTANCE CRITERIA AC193. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION. EXPANSION BOLTS SHALL NOT BE USED AS SUBSTITUTES FOR EMBEDDED ANCHOR BOLTS UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER. NOTIFY ENGINEER IF BOLT LOCATIONS CONFLICT WITH REINFORCING STEEL – DO NOT CUT REINFORCING OR REDUCE EMBEDMENT DEPTHS WITHOUT PRIOR APPROVAL.

UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING NOMINAL EMBEDMENT DEPTHS FOR EXPANSION BOLTS INTO CONCRETE:

HILTI KWIK BOLT TZ:	
1/2"Ø EXPANSION BOLTS	3 5/8"
5/8"Ø EXPANSION BOLTS	4 7/16"
3/4"Ø EXPANSION BOLTS	5 5/16"

SIMPSON STRONG-BOLT 2:	
1/2"Ø EXPANSION BOLTS	3 7/8"
5/8"Ø EXPANSION BOLTS	5 1/8"
3/4"Ø EXPANSION BOLTS	5 3/4"

DEWALT/POWERS POWER-STUD+SD2:	
1/2"Ø EXPANSION BOLTS	3 3/4"
5/8"Ø EXPANSION BOLTS	4 7/8"
3/4"Ø EXPANSION BOLTS	5 3/4"

16. EPOXY-GROUTED RODS OR REBAR TO CONCRETE SPECIFIED ON THE DRAWINGS SHALL BE ONE OF THE FOLLOWING INSTALLED IN STRICT ACCORDANCE WITH THE ICC-ES REPORTS INDICATED AND MANUFACTURER'S INSTRUCTIONS INCLUDING MINIMUM EMBED REQUIREMENTS: "SET-XP" AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. (ICC-ES NO. 2508); OR "HIT-HY 200" AS MANUFACTURED BY HILTI, INC. (ICC-ES NO. 3187), "SAFE-SET" INSTALLATION WITH HOLLOW CARBIDE DRILL BIT IS PERMITTED; OR "PURE110" AS MANUFACTURED BY DEWALT (ICC-ES NO. 3298), OR "AC208+" AS MANUFACTURED BY DEWALT (ICC-ES NO. 4027). SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICC-ES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. IN ADDITION, SUBSTITUTIONS SHALL MEET ICC-ES ACCEPTANCE CRITERIA AC308. SPECIAL INSPECTION OF EPOXY-GROUTED ANCHOR INSTALLATION IS REQUIRED. NOTIFY ENGINEER IF ANCHOR LOCATIONS CONFLICT WITH REINFORCING STEEL – DO NOT CUT REINFORCING OR REDUCE EMBEDMENT DEPTHS WITHOUT PRIOR APPROVAL. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY CERTIFIED PERSONNEL IN CONFORMANCE TO ACI 318-14 SECTION 17.8.2.2. HOLES SHALL BE HAMMER DRILLED AND DRY.

EPOXY GROUTED RODS OR REBAR SHALL NOT BE USED AS SUBSTITUTES FOR CAST-IN-PLACE ANCHOR BOLTS, THREADED RODS, OR REINFORCING STEEL UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER. FIELD FIXES OR OTHER CONDITIONS NOT ADDRESSED IN THE DOCUMENTS MUST BE SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER, INCLUDING EMBEDMENT DEPTHS.

UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING EMBEDMENT DEPTHS FOR ANCHORS AT CONCRETE:

1/2"Ø ROD OR #4 BAR	5"
5/8"Ø ROD OR #5 BAR	7"
3/4"Ø ROD OR #6 BAR	9"

17. EPOXY-GROUTED RODS OR REBAR TO REINFORCED MASONRY SPECIFIED ON THE DRAWINGS SHALL BE GROUTED WITH ONE OF THE FOLLOWING: "SET XP" AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC (IAPMO REPORT NO. 265); "HIT-HY 270" AS MANUFACTURED BY HILTI, INC (ICC-ES REPORT NO. 4143); OR "AC108+GOLD" AS MANUFACTURED BY DEWALT (ICC-ES REPORT NO. 3200). INSTALL ANCHORS IN STRICT ACCORDANCE WITH ICC OR IAPMO REPORTS, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS.

SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICC-ES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. IN ADDITION, SUBSTITUTIONS SHALL MEET ICC-ES ACCEPTANCE CRITERIA (AC58 FOR NEW MASONRY APPLICATIONS). SPECIAL INSPECTION OF EPOXY-GROUTED ANCHOR INSTALLATION IS REQUIRED. PROVIDE SCREEN TUBES AT HOLLOW CMU. SCREEN TUBES ARE NOT REQUIRED AT GROUTED CMU. HOLES IN MASONRY SHALL BE DRILLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. EPOXY GROUTED RODS OR REBAR SHALL NOT BE USED AS SUBSTITUTES FOR CAST-IN-PLACE ANCHOR BOLTS OR REINFORCING STEEL UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER. NOTIFY ENGINEER IF BOLT LOCATIONS CONFLICT WITH REINFORCING STEEL – DO NOT CUT REINFORCING OR REDUCE EMBEDMENT DEPTHS WITHOUT PRIOR APPROVAL.

UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING EMBEDMENT DEPTHS FOR ANCHORS AT REINFORCED MASONRY WALLS:

3/8"Ø ROD OR #3 BAR	4"
1/2"Ø ROD OR #4 BAR	5"
5/8"Ø ROD OR #5 BAR	7"

SHEET INDEX

S1.1	GENERAL STRUCTURAL NOTES
S1.2	GENERAL STRUCTURAL NOTES

S2.1	FOUNDATION PLAN & DETAILS
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ARCHITECTURE + PLANNING + DESIGN

6211 ROOSEVELT WAY
NORTHEAST
SEATTLE, WA 98115
tel: (206) 522-3830
fax: (206) 522-2456

COUGHLIN
PORTER
LUNDEEN

801 SECOND AVENUE, SUITE 900
SEATTLE, WA 98104
(206) 343-0460 www.cplinc.com



06/09/22

Bid Set

No.	Description	Date:

Project Title:

Clyde Hill City Hall Office
Revisions

CITY OF CLYDE HILL
9805 NE 24th St, Clyde Hill, WA 98004

Sheet Title:

GENERAL STRUCTURAL NOTES

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

Project No.: S22026

Date: 06/09/2022

Sheet Number:

S1.1

General Structural Notes

(THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.)

RENOVATION:

18. **DEMOLITION:** CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. LIMIT CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING ROOF SYSTEMS TO 20 PSF.

A. ALL NEW OPENINGS THROUGH EXISTING MASONRY OR CONCRETE WALLS, SLABS, AND BEAMS SHALL BE ACCOMPLISHED BY SAWCUTTING WHEREVER POSSIBLE. UNLESS OTHERWISE NOTED, ALL NEW OPENINGS SHALL BE SAWCUT NEAT AND CLEAN; NO OVERCUTTING AT OPENING CORNERS SHALL BE ALLOWED. AS REQUIRED, CORE DRILL CORNERS AND CHIP, GRIND OR CUT THE CORNERS TO PROVIDE THE REQUIRED DIMENSIONS.

B. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND LOCATION OF MEMBERS PRIOR TO CUTTING ANY OPENINGS.

C. SMALL ROUND OPENINGS SHALL BE ACCOMPLISHED BY CORE DRILLING, IF POSSIBLE. HOLES UP TO 1" MAY BE ROTOHAMMERED.

EXISTING REINFORCING SHALL BE SAVED UNLESS OTHERWISE NOTED. SAW CUTTING, DRILLING, OR CORING SHALL NOT CUT EXISTING REINFORCING WHICH IS TO BE SAVED. UNLESS OTHERWISE NOTED, THE FOLLOWING GUIDELINES SHALL BE USED FOR EXISTING REINFORCING (NOTE "SCANNING" IS DEFINED AS EITHER X-RAYING OR GROUND PENETRATING RADAR, WHICHEVER IS SUITABLE TO ACCURATELY LOCATE REINFORCING):

CONCRETE:

19. **CONCRETE** SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 318-14 CHAPTER 26 AND ACI 301. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'c = 3,000 PSI (4,000 PSI AT INTERIOR SLABS AND 4,500 PSI AT ALL CONCRETE EXPOSED TO WEATHER). MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO FOR INTERIOR SLABS SHALL BE BETWEEN 0.40 AND 0.44.

EXPOSURE CLASSES: CONCRETE MIXES SHALL CONFORM TO EXPOSURE CLASSES F0, S0, W0, AND C0 IN ACCORDANCE WITH ACI 318-14, TABLES 19.3.1.1 AND 19.3.2.1, EXCEPT FOR THE FOLLOWING: CONCRETE EXPOSED TO EARTH SHALL CONFORM TO EXPOSURE CLASS C1. CONCRETE EXPOSED TO WEATHER AND FREEZING (INCLUDING EXTERIOR FOUNDATIONS, WALLS AND COLUMNS WITHIN 18" OF FINISHED EXTERIOR GRADE) SHALL CONFORM TO EXPOSURE CLASS F1 (F2 FOR EXTERIOR SLABS EXPOSED TO WEATHER).

CONCRETE MIXES SHALL MEET OR EXCEED THE REQUIREMENTS SPECIFIED ABOVE. MIXES SHALL BE SUBMITTED TO THE ENGINEER AND BUILDING OFFICIAL FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE AND SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITIOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES, AS WELL AS THE WATER-CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 318-14, CHAPTER 26 AND 27. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

20. **REINFORCING STEEL** SHALL CONFORM TO ASTM A615, GRADE 60, fy = 60,000 PSI. GRADE 60 REINFORCING BARS WHICH ARE TO BE WELDED SHALL CONFORM TO ASTM A706.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.

21. **REINFORCING STEEL** SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315-18 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT (#5 AND SMALLER) 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL INTERSECTIONS. LAP CORNER BARS (#5 AND SMALLER) 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14 SECTION 25.5, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 12" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.

22. **CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL** SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
FORMED SURFACES EXPOSED TO EARTH (i.e. WALLS BELOW GROUND) OR WEATHER (#5 BARS OR SMALLER). . . 1 1/2"
SLAB-ON-GRADE BOTTOM REINFORCING (WITH VAPOR BARRIER BELOW) 1 1/2"
SLABS (#11 BARS OR SMALLER) . . 1"

23. **CAST-IN-PLACE CONCRETE:** SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES.

24. **BONDING AGENT** SHALL BE "MASTEREMACO ADH 326" BY BASF CORPORATION. OR EQUIVALENT, AND SHALL BE USED WHERE NEW CONCRETE IS PLACED AGAINST HARDENED CONCRETE. PLACE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING PREPARATION OF EXISTING SURFACES. CONCRETE SHALL BE CONSIDERED HARDENED AFTER 56 DAYS.

MASONRY:

25. **CONCRETE MASONRY UNIT WALLS** SHALL BE CONSTRUCTED OF MEDIUM OR NORMAL WEIGHT MASONRY UNITS, CONFORMING TO ASTM C90, LAID IN A RUNNING BOND WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1,900 PSI. MORTAR SHALL BE TYPE "S" IN CONFORMANCE WITH ASTM C270 AND ARTICLE 2.6A OF TMS602-16. GROUT SHALL CONFORM TO ARTICLE 2.2 OF TMS602-16 AND ASTM C1019 REQUIREMENTS AND ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS, DESIGN F'm = 1,500 PSI AT 28 DAYS. STRENGTH SHALL BE VERIFIED BY PRISM TESTING OR SHALL BE VERIFIED BY THE UNIT STRENGTH METHOD IN ACCORDANCE WITH ~~IBC~~ SECTION 1705.4 AND ARTICLE 1.4B OF TMS602-16 PRIOR TO CONSTRUCTION. ADDITIONAL UNIT STRENGTH OR PRISM TESTING IN ACCORDANCE WITH ASTM C1314 SHALL BE COMPLETED FOR EACH 5,000 SQUARE FEET OF WALL DURING CONSTRUCTION.

LAP SPLICES SHALL BE 40" FOR NO. 5 BARS.

FILL ALL CELLS CONTAINING REINFORCEMENT OR EMBEDDED ITEMS AND ALL CELLS IN CONTACT WITH EARTH WITH GROUT. PROVIDE CLEANOUT HOLES AT BOTTOM OF ALL CELLS CONTAINING REINFORCEMENT FOR POURS GREATER THAN 5.33 FEET IN HEIGHT (MAXIMUM SPACING OF CLEANOUTS SHALL BE 32"oc FOR SOLIDLY GROUTED WALLS). MAXIMUM HEIGHT OF GROUT POURS SHALL BE IN ACCORDANCE WITH TMS602-16 TABLE 6. MAXIMUM HEIGHT OF GROUT LIFTS IS 5.33 FEET, EXCEPT AS PERMITTED PER ARTICLE 3.5D OF TMS602-16.

STEEL:

26. **STRUCTURAL STEEL** SHALL CONFORM TO THE FOLLOWING REQUIREMENTS: STEEL PLATES SHALL CONFORM TO ASTM A572, Fy = 50 KSI. THREADED RODS FOR EPOXY GROUTED CONNECTIONS SHALL CONFORM TO ASTM A36 OR ASTM F1554 (36 KSI).

27. **ALL WELDING SHALL** BE IN CONFORMANCE WITH A.I.S.C. AND A.W.S. STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY A.W.S.) SHALL BE USED.

THE WELD SYMBOLS SHOWN ON THE DRAWINGS ARE INTENDED ONLY TO AID THE CONTRACTOR IN THE DETERMINATION OF FIELD VERSUS SHOP WELDING. THE CONTRACTOR SHALL WORK WITH THE FABRICATOR AND ERECTOR TO COORDINATE THE FINAL DETERMINATION OF FIELD VERSUS SHOP WELDS TO ACCOMMODATE THE CONSTRUCTION SEQUENCING OF THE PROJECT.

ALL WELDS SHALL BE MADE WITH A FILLER WELD METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS. AT 0 DEGREES F. WELDS SPECIFICALLY DENOTED AS "DEMAND CRITICAL" SHALL BE MADE WITH FILLER WELD METAL THAT ADDITIONALLY HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 40 FT-LBS AT 70 DEGREES F. SEE AISC 341-16 CHAPTER A3 (4B) AND AWS D1.8 SECTION 6.3 FOR ADDITIONAL REQUIREMENTS.

WOOD:

28. **FRAMING LUMBER** SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.I.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17 OR W.W.P.A. WESTERN LUMBER GRADING RULES. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

STUDS AND JOISTS: (2x AND 3x MEMBERS) HEM-FIR NO. 2
MINIMUM BASIC DESIGN STRESS, Fc = 1300 PSI, Fb = 850 PSI,
Fv = 150 PSI, E = 1300 KSI

PLATES, LEDGERS & MISCELLANEOUS LIGHT FRAMING: HEM-FIR NO. 3 OR STUD GRADE
MINIMUM BASIC DESIGN STRESS, Fb = 500 PSI, E = 1200 KSI
Fc = 725 PSI, Ft = 300 PSI

NOTE: FINGER JOINTED STUDS MAY BE SUBSTITUTED ONLY IF THEY MEET PRESCRIBED BENDING STRESS & TENSION STRESS CRITERIA.

NOTE: WHERE NOTED ON THE DRAWINGS, PLATES SHALL BE DOUGLAS FIR NO. 3 OR STUD GRADE.

29. **ALL PRESSURE-TREATED (P.T.) WOOD MEMBERS** SPECIFIED ON THE DRAWINGS THAT OCCUR ABOVE GROUND AND CONTINUOUSLY PROTECTED FROM MOISTURE (INTERIOR LOCATIONS) SHALL BE PRESSURE-TREATED WITH DOT SODIUM BORATE (SBX) WITHOUT NaSiO2. AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, WOOD MEMBERS SHALL BE PRESSURE-TREATED WITH COPPER AZOLE CA-B (HEM-FIR ONLY), OR ALKALINE COPPER QUAT (ACQ-C FOR DOUGLAS-FIR, OR ACQ-D FOR HEM-FIR) PRESERVATIVES UNLESS OTHERWISE NOTED. AMMONIACAL COPPER ZINC ARSENATE (ACZA) PRESERVATIVE, OR OTHER PRESERVATIVES WITH AMMONIA CARRIERS, SHALL NOT BE USED.

SEE GENERAL STRUCTURAL NOTES 30 AND 32 FOR MATERIAL REQUIREMENTS OF CONNECTORS AND FASTENERS IN CONTACT WITH PRESSURE-TREATED MEMBERS.

INSTALL 2 LAYERS OF ASPHALT-IMPREGNATED BUILDING PAPER BETWEEN UNTREATED LEDGERS, BLOCKING, ETC., AND CONCRETE OR MASONRY.

30. **TIMBER CONNECTORS** CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR WOOD CONSTRUCTION CONNECTORS CATALOG NO. C-C-2019. ALTERNATE CONNECTORS CONFORMING WITH IBC SECTION 1711 MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER. A CURRENT ICC-ES REPORT AND A LIST STATING THE ITEM-FOR-ITEM SUBSTITUTION MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR ANY PROPOSED SUBSTITUTES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENGINEERING COSTS RELATING TO REVIEW AND/OR RE-DESIGN TO ACCOMMODATE PROPOSED SUBSTITUTIONS. INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, CENTER STRAP ON JOINT AND INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER, WITH EQUAL NUMBER AND SIZE OF FASTENERS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED.

ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE-TREATED WOOD THAT USES PRESERVATIVE CHEMICALS OTHER THAN DOT SODIUM BORATE (SBX) WITHOUT NaSiO2 SHALL BE MANUFACTURED FROM ZMAX STEEL BY SIMPSON (G185 STEEL PER ASTM A653), OR TYPE 304 OR 316 STAINLESS STEEL. ALTERNATIVELY, CONNECTORS CAN BE POST HOT DIP GALVANIZED PER ASTM A123 OR MECHANICALLY GALVANIZED PER ASTM B695, CLASS 55 OR GREATER. STAINLESS STEEL FASTENERS SHALL BE USED WITH STAINLESS STEEL CONNECTORS, AND HOT DIP GALVANIZED FASTENERS PER ASTM A153 SHALL BE USED WITH GALVANIZED CONNECTORS.

31. **WOOD FRAMING NOTES:** THE FOLLOWING APPLY UNLESS OTHERWISE NOTED ON THE DRAWINGS:

A. **ALL WOOD FRAMING DETAILS** SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE IBC. MINIMUM NAILING SHALL CONFORM TO IBC TABLE 2304.10.1 OR CURRENT ICC-ES REPORT NER-272. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. INSTALLATION OF LAG SCREWS SHALL CONFORM TO 2018 NDS SECTION 12.1.4, AND INSTALLATION OF BOLTS SHALL CONFORM TO 2018 NDS SECTION 12.1.3.

B. **WALL FRAMING:** TWO STUDS MINIMUM SHALL BE INSTALLED AT THE ENDS OF ALL WALLS, UNLESS OTHERWISE NOTED. INSTALL SOLID BLOCKING FOR WOOD COLUMNS THROUGH FLOOR SPACES TO SUPPORTS BELOW.

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 12"oc STAGGERED OR BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS @ 4'-0"oc PER IBC SECTION 2308.6 (EMBED 7"), UNLESS OTHERWISE NOTED. 3" x 3" x 0.229" PLATE WASHERS SHALL BE USED WITH ALL SILL PLATE ANCHOR BOLTS AND INSTALLED PER AF&PA SDPWS-2015 SECTION 4.3.6.4.3. INDIVIDUAL MEMBERS OF BUILT-UP STUD POSTS SHALL BE NAILED TO EACH OTHER WITH 16d @ 12"oc STAGGERED.

C. **NAILING:** MINIMUM NAIL DIAMETER AND LENGTH SHALL BE AS FOLLOWS:

	NAIL SIZE ON DRAWINGS	DIAMETER AND LENGTH
SHEATHING NAILS	8d	0.131" x 2 1/4"
	10d	0.148" x 2 1/2"
FRAMING NAILS	10d	0.148" x 3"
	16d	0.148" x 3 1/4"

32. **ALL TIMBER FASTENERS** IN CONTACT WITH PRESSURE-TREATED WOOD THAT USES CHEMICALS OTHER THAN DOT SODIUM BORATE (SBX) WITHOUT NaSiO2, SHALL BE POST HOT DIP GALVANIZED PER ASTM A153.



ARCHITECTURE + PLANNING + DESIGN

6211 ROOSEVELT WAY
NORTHEAST
SEATTLE, WA 98115
tel: (206) 522-3830
fax: (206) 522-2456

COUGHLIN
PORTER
LUNDEEN

801 SECOND AVENUE, SUITE 900
SEATTLE, WA 98104
(206) 343-0460 www.cplinc.com



Bid Set

No.	Description	Date:

Project Title:

Clyde Hill City Hall Office
Revisions

CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

Sheet Title:

GENERAL STRUCTURAL NOTES

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

Project No.: S22026

Date: 06/09/2022

Sheet Number:

S1.2

HYDRONIC SYSTEM LABELS		REFERENCE SYMBOLS	
	PIPE BREAK (CONTINUATION)		DETAIL NUMBER SHEET
	HYDRONIC SUPPLY		FLAG NOTE
	HYDRONIC RETURN		REVISION TAG
	DIRECTION OF FLOW		MECHANICAL EQUIPMENT
	CAP		DIFFUSER/GRILLE TYPE CFM
	HEAT TRACED PIPING		SECTION NUMBER SHEET NUMBER
HYDRONIC VALVES AND SPECIALTIES		LIFE SAFETY SYMBOLS	
	2-WAY ELECTRIC CONTROL VALVE FAIL OPEN F.O.		CEILING RADIATION DAMPER
	2-WAY ELECTRIC CONTROL VALVE FAIL CLOSED F.C.		COMBINATION SMOKE/FIRE DAMPER
	3-WAY ELECTRIC CONTROL VALVE		HORIZONTAL SMOKE DAMPER
	4-WAY CONTROL VALVE		FIRE DAMPER
DUCTWORK LABELS		CONTROL SYMBOLS	
	INTERNALLY LINED DUCT		VOLUME DAMPER
	HIDDEN DUCT		MOTORIZED CONTROL DAMPER
	DUCT (1ST DIMENSION SIDE SHOWN, 2ND DIMENSION OTHER SIDE)		THERMOSTAT IN DUCT
	REMOVE DUCT, PIPE OR MECH. EQUIPMENT		PRESSURE SENSOR IN DUCT
	FLEX DUCT		REMOTE OPERATED VOLUME DAMPER
	RECTANGULAR SUPPLY DUCT OUT OF PAGE		BACKDRAFT DAMPER
	RECTANGULAR SUPPLY DUCT INTO PAGE		PRESSURE INDEPENDENT VOLUME CONTROLLER (TROX VFC)
	SUPPLY DIFFUSER		PRESSURE INDEPENDENT VOLUME CONTROLLER W/ ACTUATOR (TROX VFC E0 / M0)
	OUTSIDE AIR DIFFUSER		THERMOSTAT, MOUNT @ 4'-0" A.F.F.
	RECTANGULAR RETURN / EXHAUST DUCT OUT OF PAGE		SENSOR
	RECTANGULAR RETURN / EXHAUST DUCT INTO PAGE		CONTROL DEVICE
	RETURN OR EXHAUST GRILLE		MAGNETIC DOOR SWITCH
	TURNING VANES		CARBON MONOXIDE DETECTOR WITH FAN INDICATED
	STRAIGHT TAP		CARBON DIOXIDE DETECTOR
	TAPERED FITTING		PIPING SYSTEM LABELS
	BELL MOUTH FITTING		NATURAL GAS OR PROPANE
	CONICAL FITTING		BALL VALVE MANUAL LEVER
	45 DEG. ANGLE TAP		BUTTERFLY VALVE MANUAL LEVER
	ROUND ELBOW OUT OF PAGE		BUTTERFLY GEAR VALVE
	ROUND ELBOW INTO PAGE		GLOBE VALVE MANUAL LEVER
	ROUND DUCT OUT OF PAGE		BALANCE VALVE (CIRCUIT SETTER)
	ROUND DUCT INTO PAGE		BALANCE VALVE (PRESSURE INDEPENDENT)
	ROUND DUCT BREAK (CONTINUATION)		PIPE TO DRAIN
	RECTANGULAR DUCT BREAK (CONTINUATION)		PRESSURE SAFETY VALVE
	FLEX CONNECTION		AUTOMATIC AIR VENT
			MANUAL AIR VENT
			WYE STRAINER
			WYE STRAINER WITH VALVE AND HOSE END CAP
			HEAT TRACE PIPING
			HOSE END AND CAP
			EXPANSION LOOP

ACT	ACOUSTICAL CEILING TILE	MBH	1000 BRITISH THERMAL
ADA	AMERICANS WITH DISABILITIES ACT		UNIT PER HOUR
ADJ	ADJUSTABLE	MCD	MOTORIZED CONTROL DAMPER
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
AFG	ABOVE FINISHED GRADE	MED	MEDIUM
ALT	ALTERNATE	MEP	MECHANICAL, ELECTRICAL
AP	ACCESS PANEL		& PLUMBING
APPROX	APPROXIMATE	MEZZ	MEZZANINE
ARCH	ARCHITECTURAL/ARCHITECT	MIN	MINIMUM OR MINUTE
AS	AIR SEPARATOR	MISC	MISCELLANEOUS
AUX	AUXILIARY		
		N/A	NOT APPLICABLE
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BHP	BRAKE HORSE POWER	NEG	NEGATIVE
BLDG	BUILDING	NIC	NOT IN CONTRACT
BOP	BOTTOM OF PIPE	NO	NORMALLY OPEN
BTU	BRITISH THERMAL UNIT	NOM	NOMINAL
BTUH	BRITISH THERMAL UNIT PER HOUR	NPT	NATIONAL PIPE THREAD
		NTS	NOT TO SCALE
CA	COMBUSTION AIR		
CFH	CUBIC FEET PER HOUR	OA/OSA	OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	OBD	OPPOSED BLADE DAMPER
C/L	CENTER LINE	OC	ON CENTER
CLG	CEILING	OD	OUTSIDE DIAMETER
CO	CARBON MONOXIDE	OFCl	OWNER FURNISHED
CO2	CARBON DIOXIDE		CONTRACTOR INSTALLED
COND	CONDENSATE	OFOI	OWNER FURNISHED
CW	COLD WATER		OWNER INSTALLED
CX	CONNECT TO EXISTING		
		ΔP	PRESSURE DIFFERENTIAL
dB	DECIBEL	PERF	PERFORATED
DB °F	DRY BULB TEMPERATURE	Φ OR PH	PHASE
° OR DEG.	DEGREE	PVD	PRESSURE INDEPENDENT VOLUME DAMPER
Ø OR DIA	DIAMETER	PLBG	PLUMBING
DL	DOOR LOUVER	POC	POINT OF CONNECTION
DN	DOWN	PRV	PRESSURE REDUCING VALVE
DWG(S)	DRAWING(S)	PSF	POUNDS PER SQUARE FOOT
DWV	DRAIN, WASTE, VENT	PSI	POUNDS PER SQUARE INCH
		PSIG	POUNDS PER INCH GAUGE
EX	EXISTING/EXISTING TO REMAIN	PTAC	PACKAGE TERMINAL
EA	EACH		AIR CONDITIONER
EA	EXHAUST AIR		
EAT	ENTERING AIR TEMPERATURE	QTY	QUANTITY
ERU	ENERGY RECOVERY UNIT		
ESP	EXTERNAL STATIC PRESSURE	RA	RETURN AIR
ET	EXPANSION TANK	RH	RELATIVE HUMIDITY
EXP	EXPANSION	RM	ROOM
		RPBP	REDUCED PRESSURE
FC	FAIL CLOSED		BACKFLOW PREVENTER
FSD	FIRE/SMOKE DAMPER	RPM	REVOLUTIONS PER MINUTE
FF	FINISHED FLOOR	RLX	RELOCATE EXISTING
FLA	FULL LOAD AMPS	RTU	ROOF TOP UNIT
FO	FAIL OPEN	RV	RELIEF VALVE
FP	FIRE PROTECTION	RX	REMOVE EXISTING
FPM	FEET PER MINUTE		
FPS	FEET PER SECOND	SA	SUPPLY AIR
FT	FEET/FOOT	SD	SMOKE DETECTOR
FTG	FOOTING	SF	SQUARE FOOT
FOIC	FURNISHED BY OWNER	S.L.	SOUND LINER
	INSTALLED BY CONTRACTOR	SP	STATIC PRESSURE
FOIO	FURNISHED BY OWNER	SPEC	SPECIFICATION
	INSTALLED BY OWNER	S/S, OR SS	STAINLESS STEEL
FSD	FIRE/SMOKE DAMPER	STD	STANDARD
G	NATURAL GAS	T&P	TEMPERATURE AND PRESSURE
GA	GAUGE		RELIEF VALVE
GAL	GALLON	TBD	TO BE DETERMINED
GALV	GALVANIZED	TEMP	TEMPERATURE
G.C.	GENERAL CONTRACTOR	TOB	TOP OF BEAM
GSM	GALVANIZED SHEET METAL	TOC	TOP OF CONCRETE
		TOD	TOP OF DECK
H	HEIGHT	TOJ	TOP OF JOIST
HD	HEAD	TOS	TOP OF SLAB/TOP OF STEEL
HP	HORSEPOWER	T&P	TEMPERATURE & PRESSURE
HVAC	HEATING VENTILATING AND	TSP	TOTAL STATIC PRESSURE
	AIR CONDITIONING	TYP	TYPICAL
HW	HOT WATER		
HX	HEAT EXCHANGER	UL	UNDERWRITERS LABORATORY
HZ	HERTZ	UNO	UNLESS NOTED OTHERWISE
		UTR	UP THROUGH ROOF
ID	INSIDE DIAMETER/DIMENSION		
IN	INCH/INCHES	V	VOLT
IN WC	INCHES WATER COLUMN	VAV	VARIABLE AIR VOLUME
		VERT	VERTICAL
KW	KILOWATT/KILOWATTS	VFD	VARIABLE FREQUENCY DRIVE
		VIB	VALVE-IN-BOX
LAT	LEAVING AIR TEMPERATURE	VOL	VOLUME
LBS	POUNDS		
LF	LINEAL FOOT	W/	WITH
LRA	LOCKED ROTOR AMPS	W/IN	WITHIN
LTG	LIGHTING	W/O	WITHOUT
LWT	LEAVING WATER TEMPERATURE	WB °f	WET BULB TEMPERATURE
		WC	WATER COLUMN
		WPD	WATER PRESSURE DROP
		WT	WEIGHT

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ARCHITECTURE + PLANNING + DESIGN

6211 ROOSEVELT WAY
NORTHEAST
SEATTLE, WA 98115
tel: (206) 522-3830
fax: (206) 522-2456

SIDER+BYERS

MECHANICAL • ELECTRICAL ENGINEERS

192 Nickerson, Suite #300
Seattle, Washington 98109
Phone: 206.285.2966

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CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

COVER SHEET

Sheet Title:

Scale: As indicated

Project No.: 22004

Date: 06/10/2022

Sheet Number :

M1.1

C:\Users\sarah\Documents\21-1223 Clyde Hill City Hall Office Revisions_R22_Sarah@tca-inc.com.rvt

HVAC GENERAL NOTES

1. THESE PLANS ARE SCHEMATIC AND DO NOT SHOW EXACT ROUTING OR EVERY OFFSET, WHICH MAY BE REQUIRED. THE HVAC CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND IS TO VERIFY ALL CLEARANCES BEFORE COMMENCING WORK.
2. MATERIALS, METHODS AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE AND LOCAL CODES AND ORDINANCES.
3. DUCT CONSTRUCTION AND HANGING SHALL COMPLY WITH THE LATEST IMC AND WITH CURRENT SMACNA STANDARDS.
4. JOINTS OF DUCT SYSTEM SHALL BE SEALED WITH GASKETS OR LISTED MASTIC TYPE DUCT SEALANT.
5. DUCTS SHALL BE INSULATED AS INDICATED ON PLANS TO MEET THE REQUIREMENTS OF THE CURRENT INTERNATIONAL ENERGY CODE AND SPECIFICATION.
6. FLEXIBLE DUCTS SHALL ONLY BE USED WHERE SHOWN AND SHALL NOT EXCEED 6 FT IN LENGTH UNLESS NOTED OTHERWISE.
7. PROVIDE EARTHQUAKE RESTRAINT FOR HVAC EQUIPMENT IN ACCORDANCE WITH THE CURRENT IBC.
8. PIPING PENETRATIONS OF FIRE RATED WALLS OR FLOOR SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS SO AS TO MAINTAIN THE INTEGRITY AND RATING OF THE FLOOR OR WALL.
9. PROVIDE RETURN DUCT SMOKE DETECTOR(S) FOR AUTOMATIC SHUT DOWN OF ALL HEATING OR COOLING EQUIPMENT DELIVERING IN EXCESS OF 2000 CFM IN ACCORDANCE WITH THE CURRENT INTERNATIONAL MECHANICAL CODE. POWER WIRING AND INTERLOCK WIRING WITH THE BUILDING FIRE ALARM SYSTEM IS BY THE ELECTRICAL CONTRACTOR.
10. HVAC EQUIPMENT, VALVES AND DAMPERS SHALL BE LOCATED IN EASILY ACCESSIBLE LOCATIONS, UNLESS SHOWN ON ARCHITECTURAL DRAWINGS. REQUIRED ACCESS PANELS SHALL BE PROVIDED BY THE HVAC CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
11. HVAC CONTRACTOR MUST COORDINATE WITH LIGHTING FIXTURES PRIOR TO DUCT AND PIPING INSTALLATION.

HVAC ENERGY CODE NOTES

1. SEE SCHEDULES FOR EQUIPMENT TYPE, CAPACITY AND EFFICIENCY. ALL EQUIPMENT SHALL MEET MINIMUM EFFICIENCY PER C403.3.2.
2. THERMOSTATIC CONTROLS IN THE SAME ZONE OR IN NEIGHBORING ZONES CONNECTED BY OPENINGS LARGER THAN 10% OF THE FLOOR AREA OF EITHER ZONE SHALL BE INTERLOCKED TO NOT ALLOW SIMULTANEOUS HEATING AND COOLING.
3. HEAT PUMPS WITH SUPPLEMENTARY ELECTRIC HEAT SHALL INCLUDE MICROPROCESSOR CONTROLS THAT MINIMIZE ELECTRIC HEAT USAGE DURING START-UP, SET-UP, AND DEFROST CONDITIONS. CONTROLS SHALL ANTICIPATE NEED FOR HEAT AND USE COMPRESSION HEATING AS THE FIRST STAGE. CONTROLS SHALL INDICATE WHEN ELECTRIC HEAT IS BEING USED THROUGH VISUAL MEANS. ELECTRIC HEAT SHALL NOT OPERATE ABOVE 40 F OUTSIDE AIR TEMPERATURE.
4. THERMOSTATIC CONTROLS SHALL BE CONFIGURED WITH AT LEAST A 5F DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.
5. THERMOSTATS (OTHER THAN GROUP R) SHALL BE 7-DAY PROGRAMMABLE WITH AUTOMATIC SETBACK CONTROLS SET DOWN TO 55F AND UP TO 85F. CONTROLS SHALL MAINTAIN PROGRAMMING FOR AT LEAST 10 HOURS DURING LOSS OF POWER. CONTROLS SHALL HAVE A MANUAL 2 HR OVERRIDE FOR TEMPORARY OPERATION. CONTROLS SHALL ADJUST THE DAILY START TIME FOR MORNING WARMUP PRIOR TO SCHEDULED OCCUPANCY.
6. PROVIDE AMCA CLASS 1A MOTORIZED CONTROL DAMPERS FOR OUTSIDE AIR INTAKES, EXHAUST OUTLETS, RELIEF OPENINGS, STAIRWAY AND SHAFT VENTS AND RETURN SIDE OF AIRSIDE ECONOMIZERS.
7. AIR-COOLED UNITARY DIRECT-EXPANSION UNITS WITH A COOLING CAPACITY OF 54 MBH OR GREATER THAT ARE EQUIPPED WITH AN ECONOMIZER SHALL INCLUDE FAULT DETECTION AND DIAGNOSTICS (FDD).
8. PROVIDE GAS-FIRED HEATING EQUIPMENT WITH MODULATING OR STAGED COMBUSTION CONTROL FOR ALL EQUIPMENT OVER 225 MBH.
9. THERMOSTATS (GROUP R) SHALL BE 5-2 PROGRAMMABLE SCHEDULE WITH AT LEAST 2 SETBACK PERIODS PER DAY.
10. PROVIDE DUCT, SHAFT AND PLENUM INSULATION PER C403.2.8 AND SPECIFICATION SECTION 23 07 00.
11. SEAL ALL TRANSVERSE AND LONGITUDINAL SEAMS, JOINTS AND CONNECTIONS OF ALL DUCTWORK WITH WELDS, GASKETS OR MASTICS.
12. PROVIDE PIPE INSULATION PER ENERGY CODE SECTION C403.2.9 AND SPECIFICATION SECTION 23 07 00.
13. INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE, SUNLIGHT, MOISTURE AND WIND. PROVIDE JACKET AND ALUMINUM COVERS. ADHESIVE TAPE IS NOT PERMITTED.
14. SINGLE FAN OR MULTIPLE FANS IN PARALLEL WITH COMBINED MOTOR NAMEPLATE OVER 5HP SHALL HAVE A FAN EFFICIENCY GRADE (FEG) OF 67 OR HIGHER AND SHALL BE SELECTED TO OPERATE WITHIN 15% OF THE MAXIMUM TOTAL EFFICIENCY OF THE FAN.
15. COOLING SYSTEMS 65 MBH AND GREATER SHALL HAVE TWO SPEED FAN CONTROL OR MODULATING FAN CONTROL.
16. FAN AND PUMP MOTORS 7.5 HP AND GREATER SHALL BE PROVIDED WITH A VFD.
17. ECONOMIZERS SHALL BE INTEGRATED WITH MECHANICAL COOLING AND SHALL BE CAPABLE OF PROVIDING PARTIAL ECONOMIZER COOLING EVEN WHEN ADDITIONAL MECHANICAL COOLING IS REQUIRED.
18. AIR ECONOMIZERS SHALL HAVE FIXED DRY-BULB HIGH-LIMIT SHUTOFF CONTROL NOT TO EXCEED 75 DEG. F.
19. ALL ELECTRIC MOTORS SHALL MEET THE EFFICIENCY REQUIREMENTS OF TABLES C405.8(1) THROUGH C405.8(4).
20. FAN MOTORS 1/12 HP UP TO 1 HP SHALL BE ECM.
21. PROVIDE A MEANS OF BALANCING EVERY AIR INLET AND OUTLET AND EVERY AIR OR WATER TERMINAL DEVICE.
22. ALL PIPE AND DUCT INSULATION SHALL BE LABELLED WITH ITS THICKNESS AND INSULATING VALUE (R OR K).

SPLIT SYSTEM HEAT PUMP SCHEDULE

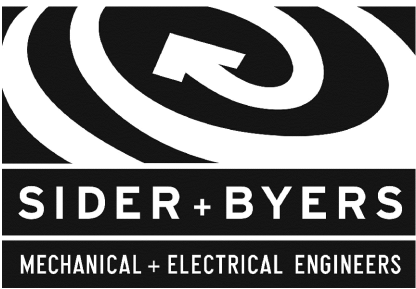
INDOOR UNIT														OUTDOOR UNIT											NOTES	
MARK	MAKE	MODEL	SUPPLY		COOLING			HEATING	ELECTRICAL		SOUND PRESS dBA	OP. WT. LBS.	MARK	MAKE	MODEL	COOLING		HEATING		ELECTRICAL			SOUND PRESS dbA	OP. WT. LBS.		
			TOTAL CFM	ESP W.C.	TOTAL MBH	SENS MBH	EAT DB / WB	OAT DB	HEATING MBH OUTPUT @ 24F OAT	VOLT / PH						MCA	TOTAL MBH	SEER	TOTAL MBH	HSPF AT 47 F	VOLT / PH	MCA				MOCP
													CU-1	TRANE	NTXSPB06B112AA	6	33.1	6	12.5	208/230 / 1	10	15	49	100	1, 2, C	
HP-1	TRANE	NTXWPH06B112AA	380	N/A	6.0	5.8	75 / 62.5	75	13.8	208/230 / 1	1	42	40												A, B	
													CU-2	TRANE	NTXSPB06B112AA	6	33.1	6	12.5	208/230 / 1	10	15	49	100	1, 2, C	
HP-2	TRANE	NTXWPH06B112AA	380	N/A	6.0	5.8	75 / 62.5	75	13.8	208/230 / 1	1	42	40												A, B	

NOTES:

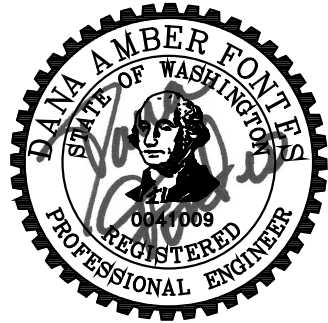
1. MANUFACTURER'S DIGITAL CONTROL SYSTEM
2. CONTROL POWER SUPPLY UNIT
3. FACTORY FILTER BOX WITH MERV 8 FILTER
4. FACTORY HIGH EFFICIENCY FILTER
- A. MANUFACTURER'S WIRING INTERFACE AND DELUXE MA PROGRAMMABLE THERMOSTAT
- B. PROVIDE WITH BLUE DIAMOND CONDENSATE PUMP 208V/230V / 1PH
- C. ECONMIZER EXCEPTION PER C403.5
- D. DOOR SWITCH EXCEPTION PER C403.4.1.6



6211 ROOSEVELT WAY
NORTHEAST
SEATTLE, WA 98115
tel: (206) 522-3830
fax: (206) 522-2456



192 Nickerson, Suite #300
Seattle, Washington 98109
Phone: 206.285.2966



BID SET

No. Description	Date:

Project Title:

Clyde Hill City Hall Office
Revisions

CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

NOTES AND SCHEDULES

Sheet Title:

Scale: As indicated
Project No.: 22004
Date: 06/10/2022
Sheet Number:

M1.2

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SECTION 230000 – HVAC SYSTEMS

1. Provide labor, materials and appliances and satisfactory installation of mechanical work ready to operate in strict accordance with these specifications. Work includes, but is not limited to, that as delineated in this specification section and on the architectural, civil, landscape and structural drawings. Provide all work set forth below.

Coordination
 - Provide electrical and weight information for all major mechanical equipment (including fans, ventilators and heat pumps) to electrical and structural engineers.
Conditioned Spaces:
 - Split-System heat pumps. Provide controls and refrigerant linesets.
 - Minimum of one thermostat per heat pump. Thermostat shall be Trane to match existing, programmable type with LCD screen.
Project Closeout Requirements
 - Complete HVAC controls and schedule according to owner's setpoints and schedule requirements.
2. Conform to following code and agency requirements having jurisdictional authority over mechanical installation:
 - Washington Building Code.
 - Washington Mechanical Code.
 - Washington Energy Code.
 - Uniform Plumbing Code with Washington State and local Amendments.
 - National Electric Code with Washington State and local Amendments.
 - Local Sewer and Water District Requirements.
 - Local Department of Health.
 - Washington Industrial Safety and Health Act (WISHA)
3. Completion and approval of the following is required for final approval of systems: Execution of Architect's and Engineer's final observation reports; Operation and maintenance instructions; Operation and maintenance manuals submitted; equipment and duct cleaning; and record drawings submitted.
4. Submittals: Provide submittals in accord with architect's schedule.
 - Do not submit hard copy submittals. Submit for review one organized PDF electronic file that includes relevant calculations, catalog data for all piping, insulation, hanger systems, parts and accessories, fixtures, and equipment in accord with Division 1. **Turn in all Division 23 submittals as a single file.** Organize that file with internal electronic tabs for easy reading. **Do not provide preliminary or advance (incomplete) submittals.**
 - Do no fabrication or manufacture of products until return of approved submittals.
 - Provide shop drawings for all products, systems, system components, and special supports which are not a standard catalog product and which may be fabricated for the Contractor or by the Contractor. Layout drawings to scale and show dimensions where accuracy of location is necessary for coordination or communication purposes.
5. Construction Drawings:
 - Construction drawings are available from Sider + Byers.
 - The Contractor shall submit to the Architect for approval prior to beginning this work, PDF shop drawings to document any substantial differences from the contract documents. Any field-built changes must be sketched and shown to the owner and design team for approval.
 - The Architect's review of such drawings shall not relieve the Contractor of responsibility for deviations from the Contract drawings or specifications, unless he has, in writing, called to the attention of the Architect such deviations at the time of the submission, nor shall it relieve him from responsibility for errors or omission in such drawings.
6. Permits: Submitted, paid for and obtained by contractor. Submit copies of signed, approved permits to the Architect.
7. Record Drawings: Provide one hard copy and one PDF set of record drawings. Show location of equipment and size of piping and ductwork. Locate all dampers and similar equipment.
8. Calculations: Any calculations required by local building department are available from Sider + Byers, with the exception of structural and/or acoustical calculations.
9. Operating and Maintenance Manuals: Furnish two copies of operating and maintenance manuals. Manual shall be hard cover loose-leaf with index and tabbed Sections.
10. Operation Instruction Period: Conducted by Contractor during minimum four (4) hour period. Deliver and post all operation and maintenance instructions at this time.
11. Power Wiring: By Electrical Contractor. Control Wiring: By M.C.. If line voltage control wiring is required, provide an allowance for same. Owner will not entertain additional cost requests due to lack of coordination between M.C. and E.C.
12. Warrant materials and workmanship for one year in accord with the General and Supplementary Conditions. Warrant period to extend from date of substantial completion.
13. Coordinate design and shop drawings to preclude interference between trades. Conflicts shall be brought to the attention of the Architect prior to installation. Insure proper "rough-in" on all equipment to which connections are made.
14. Coordinate all cutting and patching necessary to install work. Patching shall match adjacent surfaces.
15. Install equipment to permit access for periodic maintenance (e.g., filter servicing).
16. Install equipment in accord with manufacturer's recommendations. Bring conflicts between such recommendations and drawings to immediate attention of architect/engineer.
17. Install all control products and connections, except where already installed by the equipment manufacturer. Fasten all equipment securely to structure. Install equipment and exposed piping and conduit runs parallel to building lines, plumb and level.
18. Provide line voltage and/or low voltage wiring as required to serve the complete system.
19. Provide EMT or rigid conduit for exposed control wiring outside of cabinets or enclosures. Concealed low voltage wiring need not be in conduit, except in walls. Provide rigid conduit for control wiring concealed in partition walls, until conduit emerges from wall above ceilings. All low voltage control wiring shall be home runs between components without splices.
20. Mount thermostats and other human interface devices at 48" centerline above finished floor to comply with ADA accessibility per ANSI A117.1. Align thermostats and devices with light switches and other controls. Coordinate wall location of thermostats and other wall mount devices with light switches and controls provided by others. All devices in the same vicinity should be grouped at a common elevation with regular horizontal spacing intervals.
21. General:
 - Install condensate piping with trap and route from drain pan to indirect waste.
 - Install components furnished loose for field mounting.
 - Install electrical devices furnished loose for field mounting.
 - Install control wiring between unit and field installed accessories.

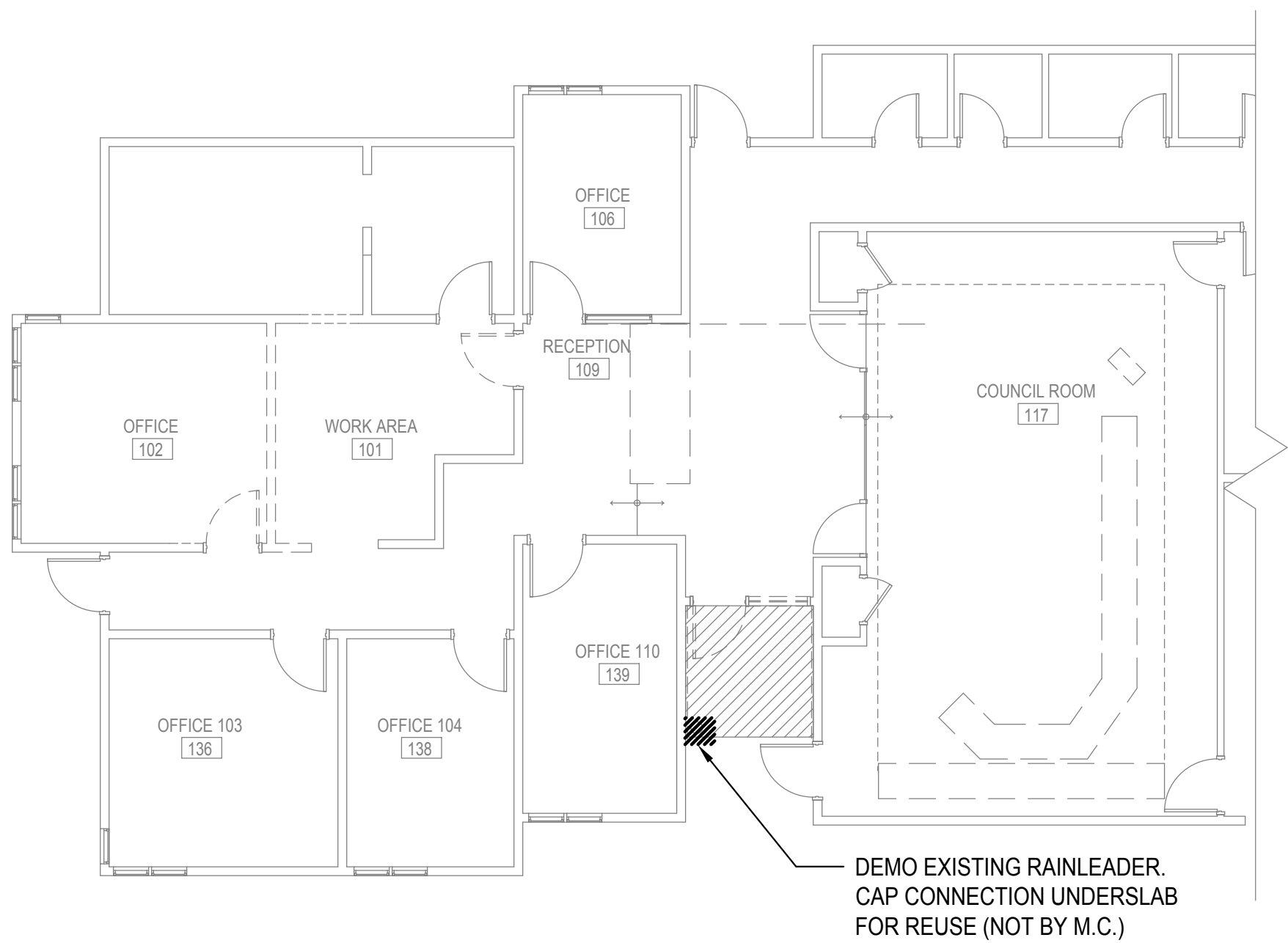
SECTION 220000 – PLUMBING SYSTEMS

1. Provide labor, materials and appliances and satisfactory installation of plumbing work ready to operate in strict accordance with these specifications. Work includes, but is not limited to, that as delineated in this specification section and on the architectural, civil, landscape and structural drawings. Provide all work set forth below.

Utilities (Waste, Vent, Water)
 - Waste, vent, and water services are existing.
Condensate Piping
 - A. Provide condensate piping for air-conditioning equipment. Coordinate quantity required with mechanical contractor. Provide minimum 3" deep p-trap equipment.
 - B. Determine best routing to nearest indirect waste using minimum ¾" piping with minimum 1/8" per foot slope. Acceptable indirect waste locations are service sink, laundry sink, floor drain or air gap fitting into waste pipe. Provide open drain box or access panel for air gap fitting as approved by local authority. Discharge at grade is acceptable if allowed by local code, provide splash block.
 - C. If proper slope cannot be achieved advise Mechanical Contractor to provide condensate pump.
Storm Drainage
 - A. Relocation of existing exterior rain leader to the underground storm system shall be in conformance with specifications of this section.
 - B. Above grade and buried within 5 feet of building to match existing.
Cast Iron Pipe: ASTM A888, CISPI 301, hub-less
-Fittings: ASME B16.45 or ASSE 1043, long pattern cast-iron, hub-less
-Joints: Standard-duty, shielded, stainless-steel coupling with all type 304 stainless steel shield and band assembly. ASTM C-564 Neoprene gasket. CISPI 310 and certified by NSF International.

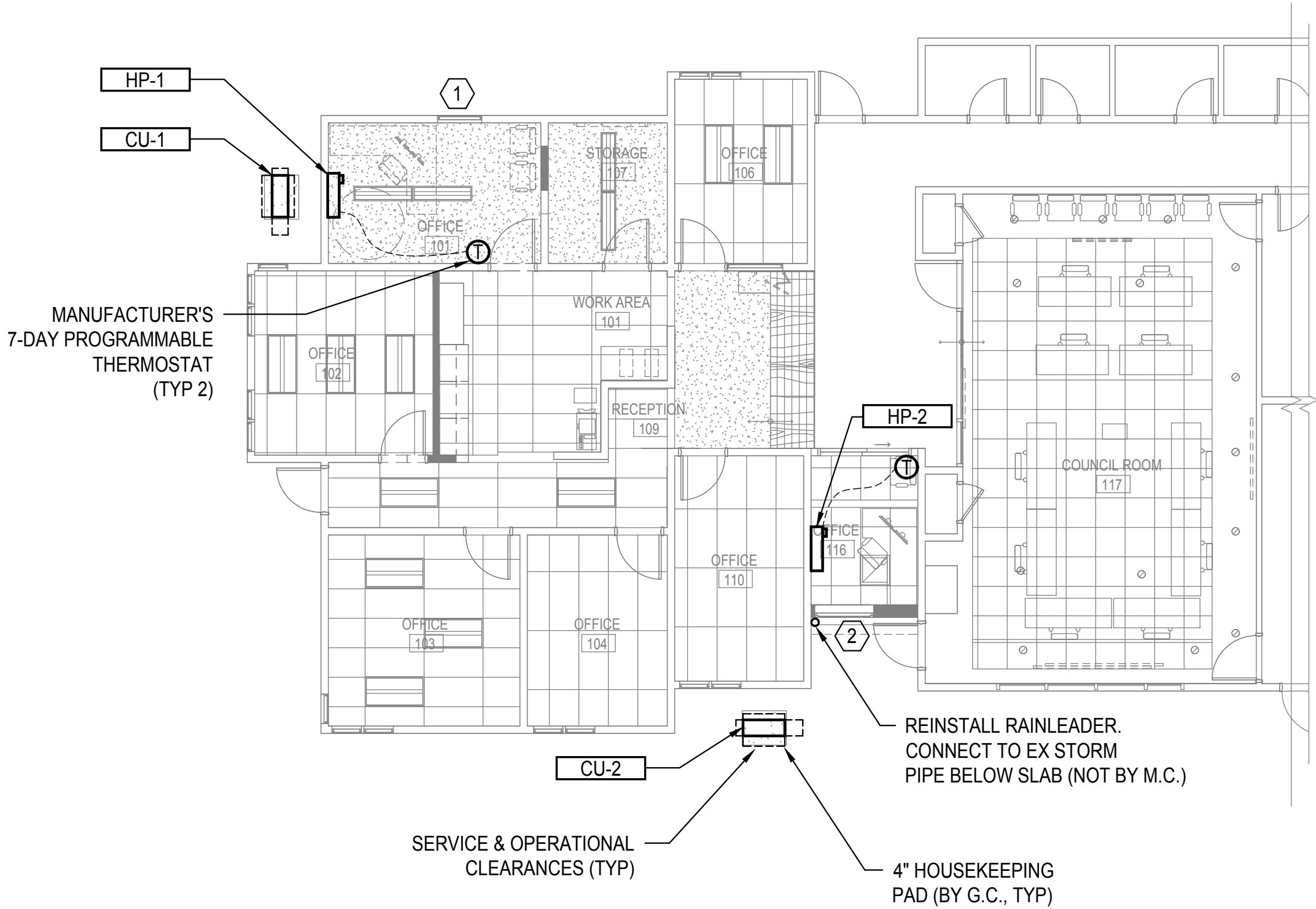
ABS Pipe: Schedule 40, ASB, DWV, Cellular Core, bell and spigot style solvent sealed ends (if approved by local authorities). NSF Standard 14, ASTM F628, ASTM D3965
-Fittings: ABS, DWV, ASTM D2861
-Joints: Solvent weld. ASTM D2235

PVC PIPE: Schedule 40 solid wall PVC, bell and spigot solvent sealed ends (if approved by local authorities). NSF Standard 14, ASTM D1785, ASTM D1784.
-Fittings: Schedule 40, PVC, ASTM D3665
-Joints: Solvent weld with ASTM D2564 solvent cement
- General*
- Trenching, backfill and compaction for under slab piping will be done by general contractor.
 - Warrant materials and workmanship for one year.
1. Conform to following code and agency requirements having jurisdictional authority over mechanical installation:
 - Washington Building Code with local amendments
 - Uniform Plumbing Code with local amendments
 - Local Sewer and Water District Requirements
 - Local Department of Health
 - Washington Industrial Safety and Health Act (WISHA)
 - Washington Energy Code
 2. Completion and approval of the following is required for final approval of systems.
 - Execution of Architect's and Engineer's final observation reports
 - Operation and maintenance instruction
 - Operation and maintenance manuals submitted
 - Equipment cleaning
 - Record drawings submitted
 3. Submittals: Provide submittals in accord with Architect's schedule.
 - Do not submit hard copy submittals. Submit for review one organized PDF electronic file that includes catalog data for all piping, insulation, hanger systems, parts and accessories, fixtures, and equipment in accord with Division 1. **Turn in all Division 22 submittals as a single file.** Organize that file with internal electronic tabs for easy reading. **Do not provide preliminary or advance (incomplete) submittals.**
 - Do no fabrication or manufacture of products until return of approved submittals.
 - Provide shop drawings for all products, systems, system components, and special supports which are not a standard catalog product and which may be fabricated for the Contractor or by the Contractor. Layout drawings to scale and show dimensions where accuracy of location is necessary for coordination or communication purposes.
 4. Permits: Submitted for and paid for by Owner; obtained by contractor. Submit copies of signed, approved permits to the Architect.
 5. Record Drawings: Provide one hard copy and one PDF set of record drawings. Show location of equipment and size of piping and ductwork. Locate all valves, cocks, dampers and similar equipment.
 6. Calculations: All calculations required by local building department are available from Sider + Byers.
 7. Operating and Maintenance Manuals: Furnish two copies of operating and maintenance manuals. Manual shall be hard cover loose-leaf with index and tabbed Sections.
 8. Operation Instruction Period: Conducted by Contractor during minimum four (4) hour period. Deliver and post all operation and maintenance instructions at this time.
 9. Warrant materials and workmanship for one year in accord with the General and Supplementary Conditions. Provide any written guarantees which exceed one year i.e. domestic water heater. Warranty period to extend from date of substantial completion.
 10. Coordinate design and shop drawings to preclude interference between trades. Conflicts shall be brought to the attention of the Architect prior to installation.
 11. Insure proper "rough-in" on all equipment to which connections are made.
 12. Approvals: Obtain written approval of AHJ prior to covering or concealing any work.



2
M2.2 1/8"=1'-0"

DEMOLITION PLAN



1
M2.2 1/8"=1'-0"

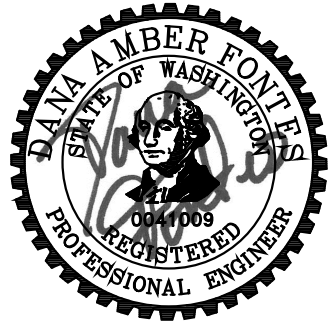
FLOOR PLAN

GENERAL NOTES:

1. SIZE REFRIGERANT PIPING PER MANUFACTURER'S INSTRUCTIONS (TYP).
2. REFRIGERANT LINSET HOME RUNS FROM CONDENSING UNIT TO INDOOR UNITS (TYP).
3. VERIFY CONDENSING UNIT OPERATION AND MAINTNENACE CLEARANCES BEFORE INSTALLATION.
4. PROVIDE HEAT PUMP CONDENSATE DRAINAGE PER UPC (TYP).

FLAG NOTES:

- ① OFFICE 101 TO MEET VENTILATION REQUIREMENTS OF THE 2018 WAMC PER SECTION 402 NATURAL VENTILATION.
- ② OFFICE 116 TO MEET VENTILATION REQUIREMENTS OF THE 2018 WAMC PER SECTION 402 NATURAL VENTILATION.



BID SET

No.	Description	Date:

Project Title:

Clyde Hill City Hall Office
Revisions

CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

FLOOR PLAN/ DEMO PLAN

Sheet Title:

Scale: As indicated

Project No.: 22004

Date: 06/10/2022

Sheet Number:

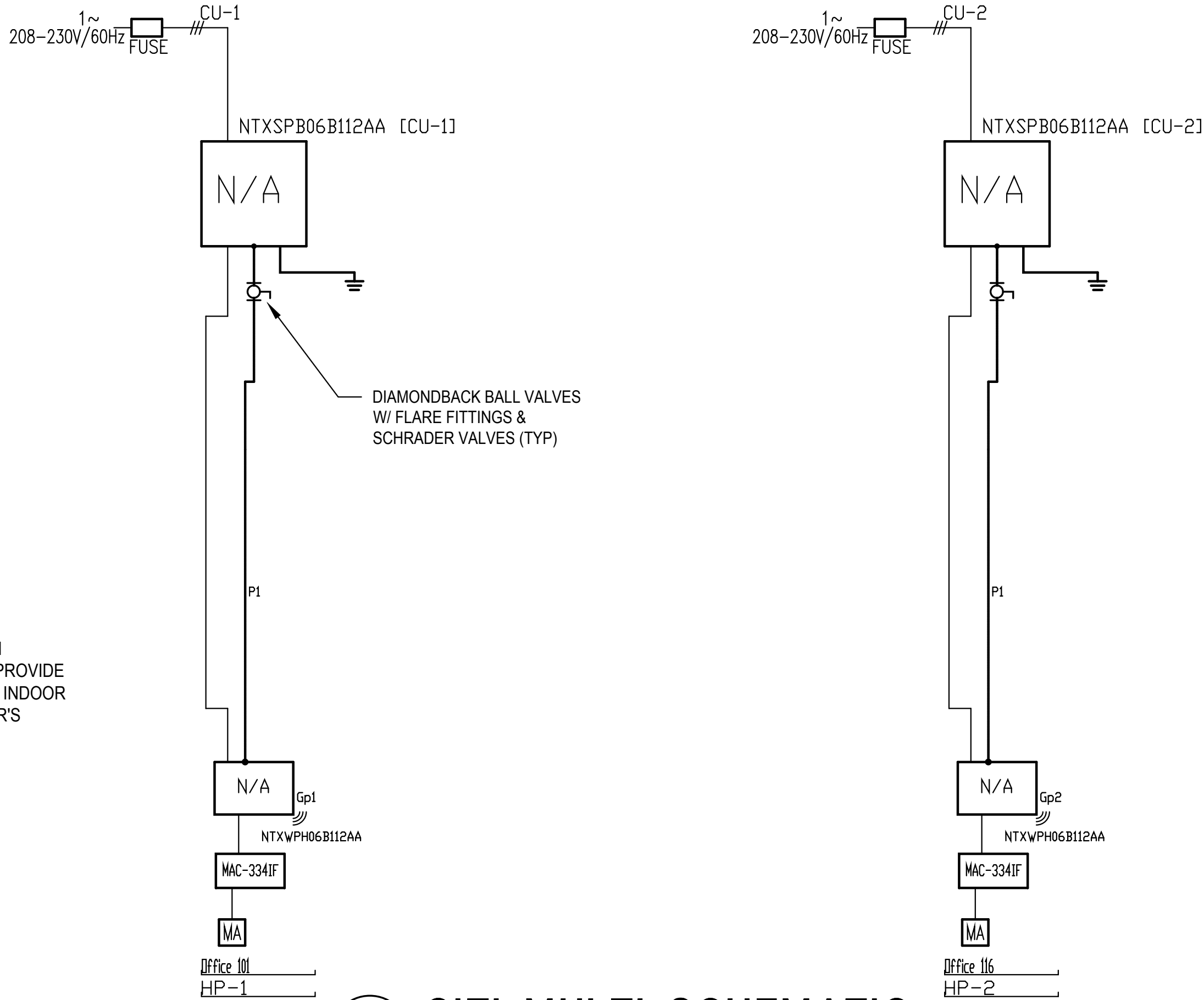
M2.2

DIAGRAM SYMBOL LEGEND			CONT.No	PAGE
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PIPING AND CONTROLS
SYMBOL LIQUID PIPE GAS PIPE SIZE
P1 1/4 3/8

CITY MULTI
SYSTEM SCHEMATIC DWG.

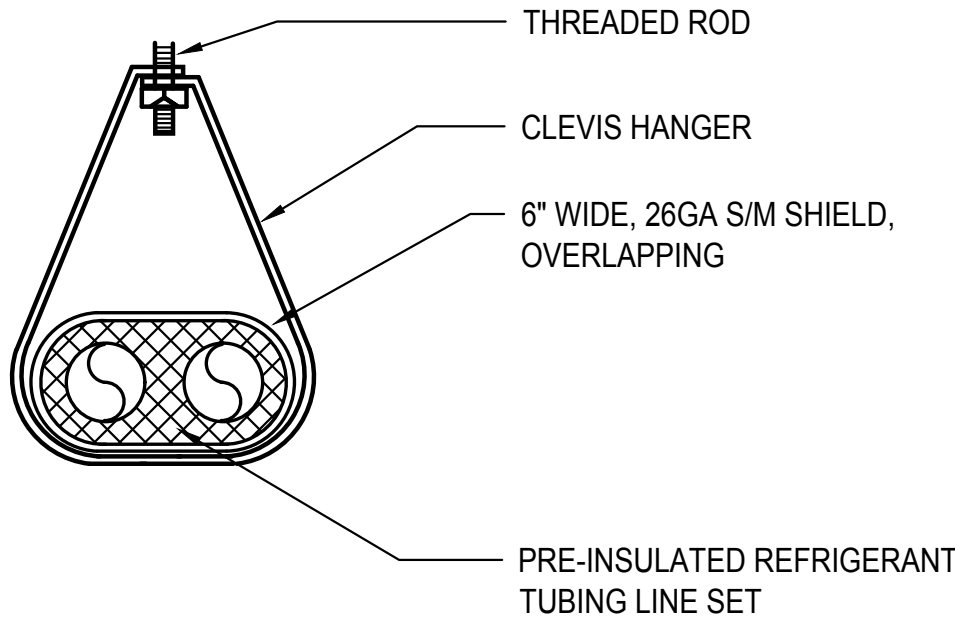
This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record
Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm²(16 AWG) : 1.25mm²(16 AWG) or more. 0.75mm²(20 AWG) : between 0.5mm²(24 AWG) and 0.75mm²(20 AWG).



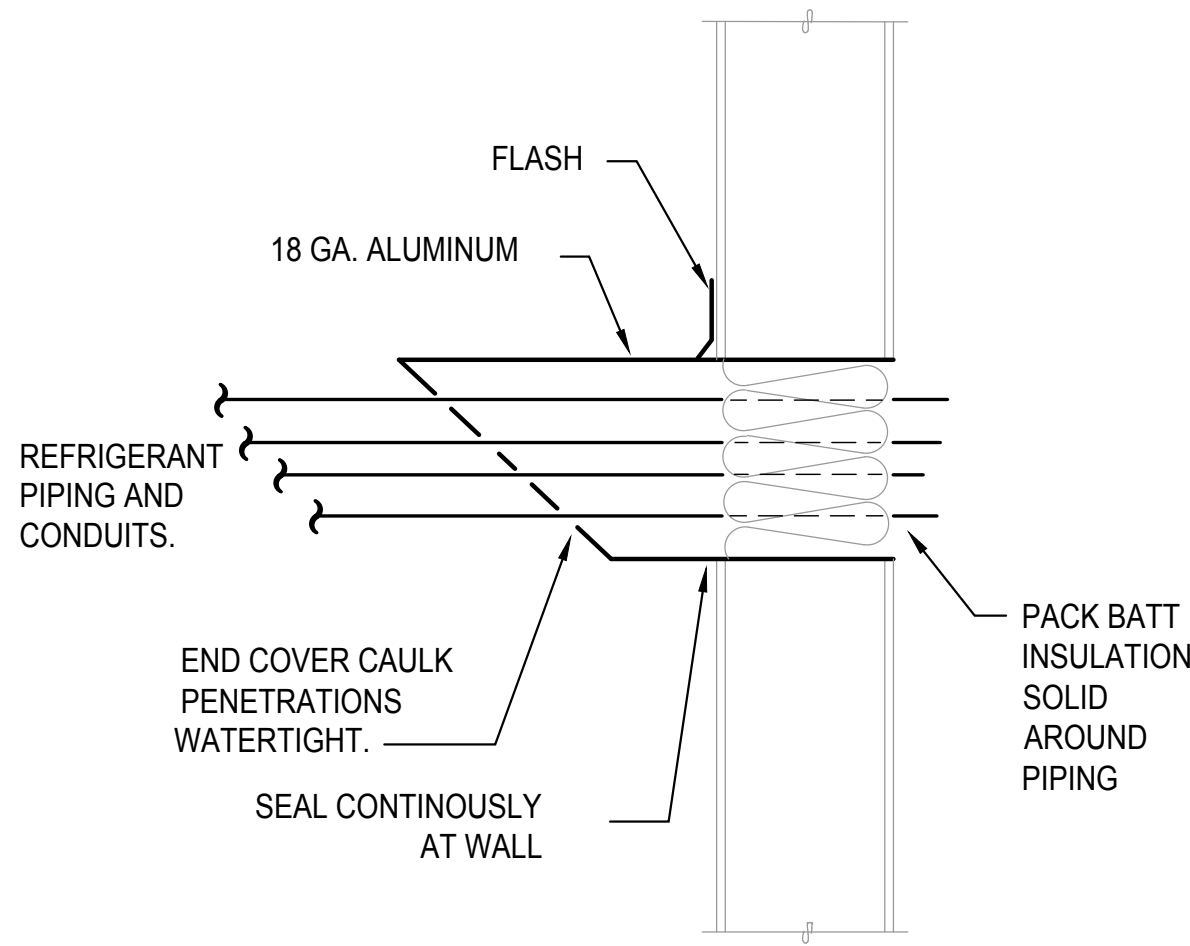
NOTES:

- INDOOR UNIT POWER FED FROM OUTDOOR CONDENSING UNIT. PROVIDE LOCAL DISCONNECT SWITCH AT INDOOR UNITS MEETING MANUFACTURER'S GUIDELINES AND NEC

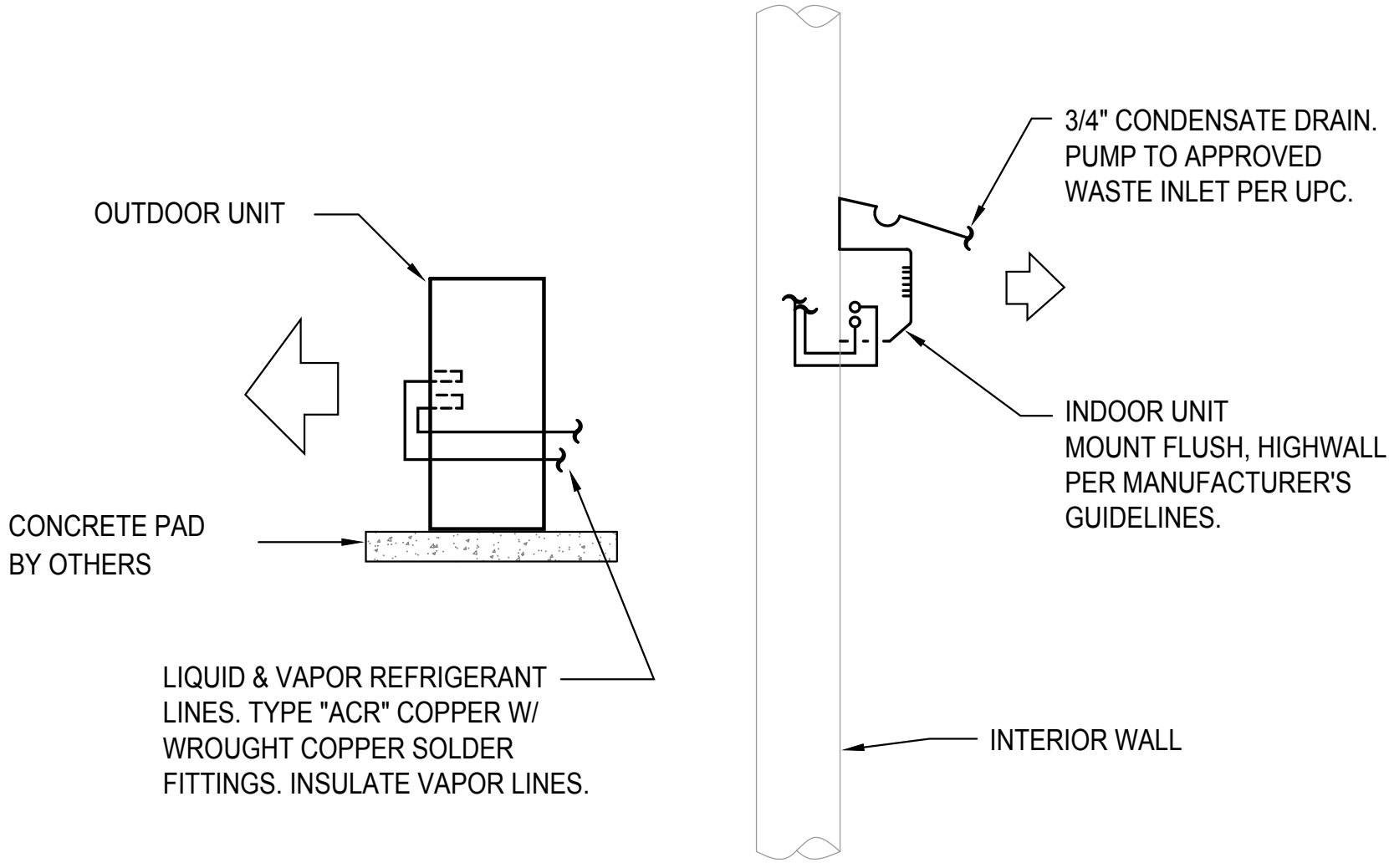
1 CITI MULTI SCHEMATIC
M3.1 N.T.S.



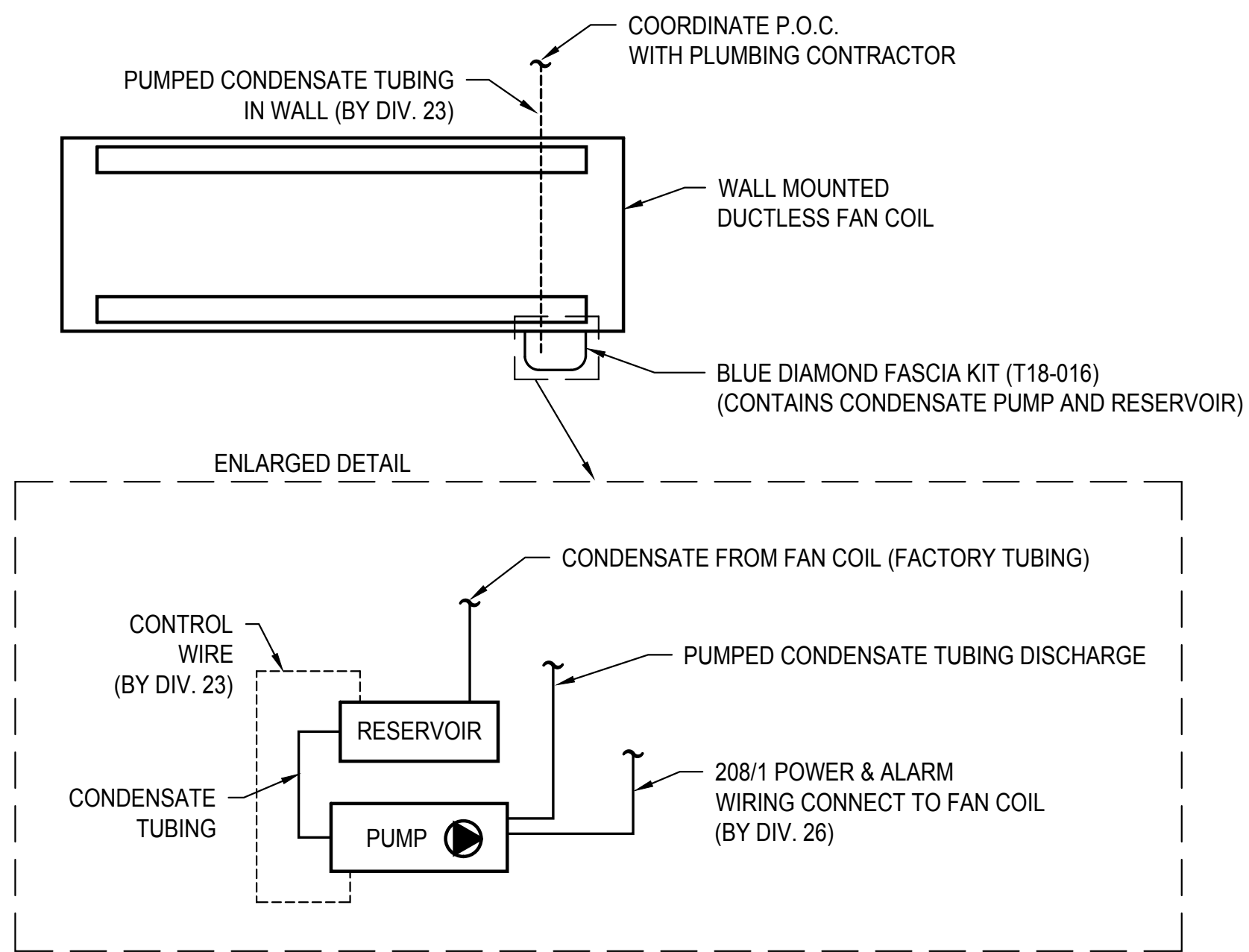
2 REFRIGERANT
PIPE SUPPORT
M3.1 N.T.S.



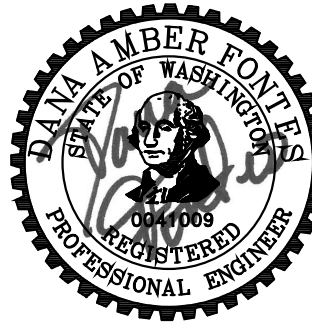
3 WALL PIPE PENETRATION
M3.1 N.T.S.



4 SPLIT SYSTEM A/C INSTALL DETAIL
M3.1 N.T.S.



5 WALL MOUNTED DUCTLESS FAN
COIL CONDENSATE PUMP (FASCIA)
M3.1 N.T.S.



BID SET

No.	Description	Date:

Project Title:

Clyde Hill City Hall Office
Revisions

CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

DETAILS

Sheet Title:

Scale: As indicated

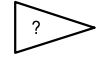

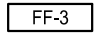
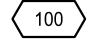


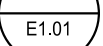

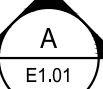
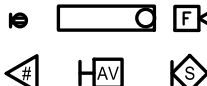
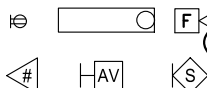
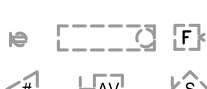

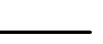

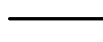
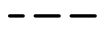

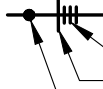
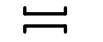
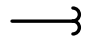
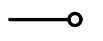
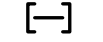
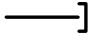
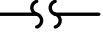
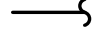


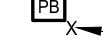
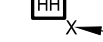
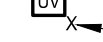



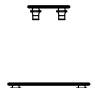
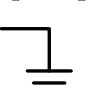
























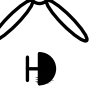

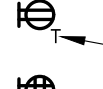

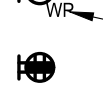










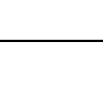

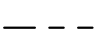

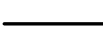

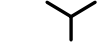
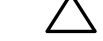
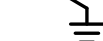
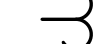
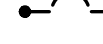
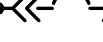
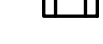

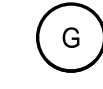

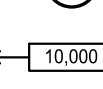


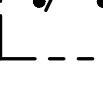
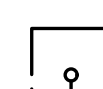
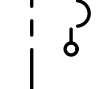
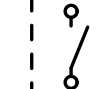
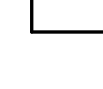
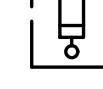






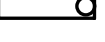
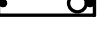
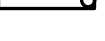
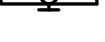


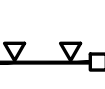
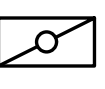


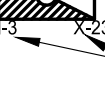





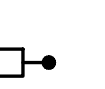
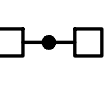




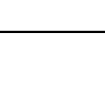
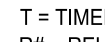



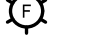


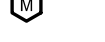
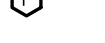







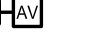

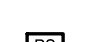

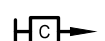
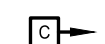
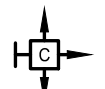
Project No.: 22004

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M3.1

ELECTRICAL LEGEND

GENERAL ITEMS	POWER & EQUIPMENT CONNECTIONS	ELECTRICAL ONE-LINE DIAGRAM	LIGHT FIXTURES AND CONTROLS	SWITCHES	DRAWING INDEX
<div> FLAG NOTE</div> <div> KEY NOTE</div> <div> MECHANICAL EQUIPMENT TAG</div> <div> EQUIPMENT TAG</div> <div> REVISION CLOUD</div> <div> REVISION DELTA</div> <div> DETAIL/ PLAN SHEET IDENTIFIER</div> <div> NORTH ARROW</div> <div> SECTION IDENTIFIER</div> <div> ELEVATION IDENTIFIER</div> <div> SYMBOLS SHOWN ON PLANS IN STANDARD (HEAVY) LINE WEIGHT ARE NEW OR RELOCATED WORK.</div> <div> SYMBOLS SHOWN IN LIGHT LINE WEIGHT OR DESIGNATED WITH (E) INDICATE EXISTING TO REMAIN.</div> <div> SYMBOLS SHOWN AS DASHED INDICATE ITEMS TO BE REMOVED OR DEMOLISHED.</div> <div> EXISTING WORK TO BE DEMOLISHED/ REMOVED</div> <div> EXISTING WORK TO REMAIN</div> <div> NEW WORK</div> <div> MATCHLINE</div> <div> ENLARGED PLAN BOUNDARY</div> <div><div>BOXES, CIRCUITING AND RACEWAYS</div><div> CONDUIT CONCEALED IN CEILING OR WALL</div><div> CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND</div><div> CONDUIT HOME-RUN</div><div> CONDUCTORS IN CONDUIT PHASE CONDUCTOR(S) NEUTRAL CONDUCTOR GROUND CONDUCTOR</div><div> FIRE STOP SLEEVE</div><div> CONDUIT WITH BELL END</div><div> CONDUIT WITH VERTICAL TRANSITION</div><div> CONDUIT SLEEVE WITH BUSHING</div><div> CONDUIT STUB WITH BUSHING</div><div> CONDUIT BREAK</div><div> CONDUIT CONTINUATION</div><div> CABLE TRAY, OVERHEAD MESH TYPE</div><div> CABLE TRAY, OVERHEAD LADDER TYPE</div><div> PULL BOX (WHERE INDICATED ON DRAWINGS, SUBSCRIPT INDICATES TYPE)</div><div> HANDHOLE (WHERE INDICATED ON DRAWINGS, SUBSCRIPT INDICATES TYPE)</div><div> UTILITY VAULT (WHERE INDICATED ON DRAWINGS, SUBSCRIPT INDICATES TYPE)</div><div> FLOORBOX (WHERE INDICATED ON DRAWINGS, SUBSCRIPT INDICATES TYPE)</div><div> POKE-THRU (WHERE INDICATED ON DRAWINGS, SUBSCRIPT INDICATES TYPE)</div><div> POWER POLE, FLOOR TO CEILING</div><div> SURFACE METAL RACEWAY</div></div> <div><div>GROUNDING</div><div> GROUND ROD</div><div> GROUNDING BUSBAR (TGB 10")</div><div> GROUNDING BUSBAR (TMGB 20")</div><div> EQUIPMENT GROUNDING CONNECTION</div><div> GROUNDING STRAP</div></div>	<div> CIRCUIT BREAKER PANELBOARD</div> <div> LOAD CENTER</div> <div> LIGHTING CONTROL PANEL</div> <div> TERMINAL CABINET</div> <div> SWITCHBOARD OR MOTOR CONTROL CENTER (SIZE AS SHOWN ON PLANS)</div> <div> DRY TYPE TRANSFORMER (SEE NOTES & RISER DIAGRAM FOR SIZE)</div> <div> TRANSFER SWITCH</div> <div> UTILITY TRANSFORMER</div> <div> METER</div> <div> EQUIPMENT CONNECTION</div> <div> WALL MOUNTED EQUIPMENT CONNECTION</div> <div> MOTOR CONNECTION</div> <div> FAN CONNECTION</div> <div> ELECTRIC WALL HEATER CONTROLLED BY WALL MOUNTED THERMOSTAT</div> <div> ELECTRIC WALL HEATER WITH INTEGRAL THERMOSTAT</div> <div> ELECTRIC UNIT HEATER</div> <div> DISCONNECT SWITCH</div> <div> FUSED DISCONNECT SWITCH</div> <div> MAGNETIC MOTOR STARTER</div> <div> COMBINATION STARTER AND DISCONNECT</div> <div> ENCLOSED CIRCUIT BREAKER</div> <div> VARIABLE FREQUENCY DRIVE</div> <div> HAND/OFF/AUTO SWITCH</div> <div> START-STOP PUSHBUTTON SWITCH</div> <div> PUSHBUTTON SWITCH</div> <div> MOTOR RATED SWITCH</div> <div> WALL MOUNTED THERMOSTAT</div> <div> ELECTRIC BASEBOARD HEATER (LENGTH & WATTAGE ON PLAN)</div> <div> HEAT LAMP</div> <div> EXHAUST FAN/HEAT LAMP COMBINATION</div> <div> EXHAUST FAN/LIGHT COMBINATION</div> <div> CEILING / PADDLE FAN</div> <div> EMERGENCY POWER OFF PUSHBUTTON</div> <div><div>RECEPTACLES & OUTLETS</div><div> SINGLE RECEPTACLE</div><div> DUPLEX RECEPTACLE (T = TAMPER RESISTANT)</div><div> DOUBLE DUPLEX RECEPTACLE</div><div> DUPLEX GFCI RECEPTACLE (WP = WEATHERPROOF WHILE-IN-USE COVER)</div><div> DOUBLE DUPLEX GFCI RECEPTACLE</div><div> DUPLEX RECEPTACLE MOUNTED IN CEILING</div><div> DOUBLE DUPLEX RECEPTACLE MOUNTED IN CEILING</div><div> DUPLEX RECEPTACLE (MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH) (U.O.N.)</div><div> DOUBLE DUPLEX RECEPTACLE (MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH) (U.O.N.)</div><div> DUPLEX GFCI RECEPTACLE (MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH) (U.O.N.)</div><div> DOUBLE DUPLEX GFCI RECEPTACLE (MOUNTED +4"O.C. ABOVE COUNTER OR BACKSPLASH) (U.O.N.)</div><div> DUPLEX RECEPTACLE MOUNTED HORIZONTALLY</div><div> SWITCHED DUPLEX RECEPTACLE</div><div> DOUBLE DUPLEX RECEPTACLE WITH 1/2 SWITCHED</div><div> SINGLE SPECIAL PURPOSE RECEPTACLE</div><div> JUNCTION BOX WITH BLANK COVER</div><div> JUNCTION BOX WITH BLANK COVER, WALL MOUNT (F = FURNITURE FEED)</div><div> DOORBELL</div></div>	<div> EQUIPMENT ENCLOSURE</div> <div> BUS BAR</div> <div> WIRE</div> <div> LUG</div> <div> CONNECTION</div> <div> WYE</div> <div> DELTA</div> <div> GROUND</div> <div> CURRENT TRANSFORMER</div> <div> CIRCUIT BREAKER</div> <div> CIRCUIT BREAKER, DRAW OUT</div> <div> FUSED SWITCH</div> <div> FUSE</div> <div> METERING DEVICE A = AMMETER M = METER V = VOLTMETER W = WATT HOUR METER</div> <div> GENERATOR</div> <div> MOTOR CONNECTION</div> <div> GROUND FAULT PROTECTION</div> <div> SHUNT TRIP</div> <div> AVAILABLE FAULT CURRENT TAG</div> <div> FEEDER TAG</div> <div> SURGE PROTECTIVE DEVICE</div> <div> TRANSFER SWITCH</div> <div> ENCLOSED CIRCUIT BREAKER</div> <div> ENCLOSED DISCONNECT SWITCH</div> <div> ENCLOSED DISCONNECT SWITCH, FUSED</div> <div> TRANSFORMER</div> <div> PANELBOARD, MAIN LUGS ONLY</div> <div> PANELBOARD, CIRCUIT BREAKER</div> <div> PANELBOARD, MAIN LUGS ONLY WITH CIRCUIT BREAKER OFF MAIN BUS</div> <div> METER CENTER (ENCLOSURE SIZED AS REQUIRED)</div>	<div><p>NOTE: LIGHTING FIXTURE SYMBOLS SHOW LENGTH, MOUNTING & EMERGENCY EGRESS INFORMATION ONLY. REFER TO FIXTURE DESIGNATIONS & LIGHTING FIXTURE SCHEDULE FOR LAMP TYPE & OTHER FIXTURE SPECIFICS.</p><div> SURFACE MOUNTED DOWNLIGHT (ROUND / SQUARE)</div><div> RECESSED DOWNLIGHT (ROUND / SQUARE)</div><div> PENDANT MOUNTED FIXTURE OR CHANDELIER</div><div> SINGLE POINT SOURCE WALL MOUNTED FIXTURE</div><div> WALL SCONCE</div><div> WALL MOUNTED LONG ARM FIXTURE</div><div> SURFACE MOUNTED LINEAR FIXTURE</div><div> RECESSED LINEAR FIXTURE</div><div> PENDANT MOUNTED LINEAR FIXTURE</div><div> SURFACE MOUNTED LINEAR FIXTURE (NARROW BODY)</div><div> LINEAR STRIP FIXTURE</div><div> LINEAR INDUSTRIAL STRIP FIXTURE</div><div> WALL MOUNTED LINEAR FIXTURE</div><div> WALL MOUNTED STRIP FIXTURE</div><div> WALL MOUNTED INDUSTRIAL LINEAR FIXTURE</div><div> RECESSED LINEAR WALLWASHER</div><div> LINEAR UNDERCABINET FIXTURE</div><div> LED COVE OR UNDERCABINET LIGHT (LENGTH AS SHOWN ON PLAN, TRANSFORMER(S) SHOWN AS REQUIRED)</div><div> TRACK LIGHT (LENGTH AS SHOWN ON PLAN)</div><div> RECESSED LINEAR FIXTURE, 2' x 4'</div><div> RECESSED WALLWASHER</div><div> FLOODLIGHT OR MONOPOINT</div><div> SURFACE LINEAR EMERGENCY EGRESS FIXTURE</div><div> RECESSED LINEAR EMERGENCY EGRESS FIXTURE</div><div> 2'x4' FIXTURE SPLIT BETWEEN NORMAL & EMERGENCY EGRESS WITH UL924 RELAY (DUAL CIRCUITS SHOWN ON PLANS)</div><div> RECESSED EMERGENCY EGRESS DOWNLIGHT (ROUND / SQUARE)</div><div> SURFACE EMERGENCY EGRESS DOWNLIGHT (ROUND / SQUARE)</div><div> FLOODLIGHT, MONOPOINT OR TRACK HEAD EGRESS</div><div> EGRESS COVE LIGHT OR STRIP</div><div> UNIVERSAL/CEILING MOUNTED EXIT SIGN</div><div> WALL MOUNTED EXIT SIGN</div><div> DIRECTIONAL EXIT SIGN (ARROWS INDICATE ONE OR TWO SIDES AND DIRECTION INDICATED)</div><div> EMERGENCY EXIT SIGN WITH DUAL PATHWAY HEADS</div><div> DUAL HEAD EMERGENCY EGRESS FIXTURE</div><div> POLE MOUNTED LIGHT FIXTURE</div><div> DUAL HEAD, POLE MOUNTED LIGHT FIXTURE</div><div> POST TOP LIGHT FIXTURE</div><div> RECESSED STEP LIGHT FIXTURE</div><div> RECESSED DIRECT BURIAL FLOODLIGHT</div><div> DOCK LIGHT FIXTURE, WALL MOUNTED</div><div> OCCUPANCY SENSOR, CEILING MOUNTED</div><div> OCCUPANCY SENSOR, WALL MOUNTED</div><div> PHOTOCELL LIGHT SENSOR</div><div> VACANCY SENSOR</div><div> COMBINATION VACANCY/ PHOTOCELL SENSOR</div><div> SENSOR POWER PACK</div></div>	<div><div> SWITCH, SPST AND/ OR AS INDICATED BY SUBSCRIPT a = SWITCH LEG 3 = THREE-WAY 4 = FOUR-WAY K = KEYED D = DIMMER OS = OCCUPANCY SENSOR VS = VACANCY SENSOR</div><div> T = TIMER RM = RELAY P = PILOT LIGHT LV = LOW VOLTAGE LVP = LOW VOLTAGE PROGRAMMABLE SR = SENSOR ZONE</div><div><p>(a,b,c) USED TO INDICATE MULTIPLE SWITCHES</p><p>SWITCH COMBINATION EXAMPLE (4K = FOUR-WAY KEYED SWITCH).</p></div></div> <div><div>FIRE ALARM SYSTEM</div><div> MANUAL PULL STATION</div><div> HORN / STROBE, WALL MOUNTED</div><div> HORN / STROBE, CEILING MOUNTED</div><div> STROBE ONLY, WALL MOUNTED</div><div> STROBE ONLY, CEILING MOUNTED</div><div> SMOKE DETECTOR</div><div> HEAT DETECTOR</div><div> DUCT SMOKE DETECTOR</div><div> MAGNETIC DOOR HOLDER</div><div> TAMPER SWITCH</div><div> FLOW SWITCH</div><div> HI/LOW PRESSURE SWITCH</div><div> BEAM SMOKE DETECTOR TRANSMITTER</div><div> BEAM SMOKE DETECTOR RECEIVER</div><div> FIRE/SMOKE DAMPER</div><div> FIRE ALARM CONTROL PANEL</div></div> <div><div>TELECOMMUNICATIONS SYSTEM</div><div> TELECOMMUNICATIONS DEVICE OUTLET (# = QUANTITY OF TELECOMMUNICATIONS MODULES/ JACKS) (B = BLANK COVER PLATE) (W = WALL PHONE PLATE AT +44" AFF) (AC = ABOVE COUNTER DEVICE) (F = MODULAR FURNITURE DEVICE) (S = SURFACE MOUNT DEVICE) (WAP = WIRELESS ACCESS POINT DEVICE)</div><div> TELECOMMUNICATIONS DEVICE OUTLET- ABOVE CEILING (# = QUANTITY OF TELECOMMUNICATIONS MODULES/ JACKS) (CAM = IP CAMERA DEVICE) (WAP = WIRELESS ACCESS POINT DEVICE)</div><div> FIRE RESISTANT 3/4" PLYWOOD BACKBOARD</div><div> 19" TWO-POST FLOOR MOUNTED EQUIPMENT RACK</div><div> 6" DOUBLE-SIDED VERTICAL CABLE MANAGER</div><div> 110-BLOCK WITH LEGS, WALL MOUNTED</div><div> 66-BLOCK, WALL MOUNTED</div></div> <div><div>TELEVISION DISTRIBUTION SYSTEM</div><div> CATV OUTLET, WALL MOUNTED</div><div> HDMI PLATE, WALL MOUNTED</div></div>	<div><div>ACCESS CONTROL SYSTEM</div><div> ACCESS CONTROL PANEL</div><div> SECURITY DEVICE, WALL MOUNTED (AO = AUTO OPERATOR) (BR = BIOMETRIC READER) (CR = CARD READER) (CRIM = MULLION CARD READER) (CR/K = CARD READER WITH KEYPAD) (EDR = EMERGENCY DOOR RELEASE) (LD = LOCKDOWN BUTTON) (KS = KEYED SWITCH) (PB = PANIC BUTTON) (RX = REQUEST TO EXIT BUTTON)</div><div> REQUEST TO EXIT DETECTOR, INTEGRAL MICRO SWITCH</div><div> DOOR POSITION SWITCH/ SECURITY CONTACT</div><div> POWER SUPPLY, DOOR HARDWARE</div><div> EMERGENCY CALL BOX</div><div> DOOR HARDWARE (BY DIV.08, CONNECTION BY DIV.28) (EL = ELECTRIFIED LOCKSET/ EXIT DEVICE) (ES = ELECTRIFIED STRIKE) (ML = ELECTRIFIED MAGNETIC LOCK) (MH = ELECTRIFIED MAGNETIC HOLD OPEN)</div></div> <div><div>SECURITY VIDEO SYSTEM</div><div> CAMERA, WALL MOUNT</div><div> CAMERA, CEILING MOUNT</div><div> MULTI-LENS CAMERA, WALL OR POLE MOUNT</div><div> MULTI-LENS CAMERA, CEILING MOUNT</div></div>

NOT ALL SYMBOLS MAY APPEAR IN THE DRAWINGS



PERMIT SET

No.	Description	Date:

Project Title:

Clyde Hill City Hall Office
Revisions
CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

Sheet Title:

ELECTRICAL LEGEND
AND DRAWING INDEX

Scale: NOTED

Project No.: 16-32

Date: 09/20/2022

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ELECTRICAL LEGEND

ABBREVIATIONS

A (200A)	AMPERE; AMPS (AFTER VALUE)	KVA	KILOVOLT AMPERE
AC	AIR CONDITIONING; ALTERNATING CURRENT; ABOVE COUNTER	KW	KILOWATT
AF	AMP FUSE	KCMIL	THOUSAND CIRCULAR MILS
AFF	ABOVE FINISHED FLOOR	KVAR	KILOVOLT AMPERE REACTIVE
AG	ABOVE GRADE		
AHJ	AUTHORITIES HAVING JURISDICTION	LAN	LOCAL AREA NETWORK
AHU	AIR HANDLING UNIT	LCP	LIGHTING CONTROL PANEL
AIC	AMPERE INTERRUPTING CURRENT	LEC	LOCAL EXCHANGE CARRIER
AL	ALUMINUM	LT(S)	LIGHT(S)
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LTG	LIGHTING
AS	AMP SWITCH	LV	LOW VOLTAGE
AT	AMP TRIP		
ATS	AUTOMATIC TRANSFER SWITCH	M	METER
ATM	ASYNCHRONOUS TRANSFER MODE	MAN	METROPOLITAN AREA NETWORK
AV	AUDIO VISUAL	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MC	MAIN CROSS CONNECT; METAL CLAD (CABLE)
		MCC	MOTOR CONTROL CENTER
BAS	BUILDING AUTOMATION SYSTEM	MCB	MAIN CIRCUIT BREAKER
BATT	BATTERIES	MDF	MAIN DISTRIBUTION FRAME
BKBD	BACKBOARD	MDP	MAIN DISTRIBUTION PANEL
BIL	BASIC IMPULSE INSULATION LEVEL	MECH	MECHANICAL
BKR	BREAKER	MFR	MANUFACTURER
BLDG	BUILDING	MH	MANHOLE
		MIN	MINIMUM
C	CONDUIT; DEGREES CELSIUS	MLO	MAIN LUGS ONLY
CAB	CABINET	MM	MULTIMODE
CAT	CATEGORY	MPOE	MAIN POINT OF ENTRY
CATV	COMMUNITY ANTENNA TELEVISION	MPOP	MAIN POINT OF PRESENCE
CB	CIRCUIT BREAKER	MTD	MOUNTED
CCTV	CLOSED CIRCUIT TELEVISION	MTS	MANUAL TRANSFER SWITCH
CL	CENTERLINE		
CLG	CEILING	N	NEUTRAL
CM	CEILING-MOUNTED	(N)	NEW
CO	CONDUIT ONLY	NAC	NOTIFICATION APPLIANCE CIRCUIT
COW	COMPUTER ON WHEELS	NEC	NATIONAL ELECTRICAL CODE
CR	CONTROLLED RECEPACLE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CRP	CONTROL RELAY PANEL	NF	NON-FUSED
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
CU	COPPER	NL	NIGHT LIGHT
		NREC	NON-RESIDENTIAL ENERGY CODE
DDC	DIRECT DIGITAL CONTROL		
DEMARC	DEMARICATION POINT	OC	ON CENTER
DF	DRINKING FOUNTAIN	OFC	OPTICAL FIBER CABLE
DIA	DIAMETER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
DISC	DISCONNECT	OH	OVERHEAD
DISP	DISPOSAL	OHL	OVERHEAD LINE
DIST	DISTRIBUTION	OL	OVERLOAD
DSL	DIGITAL SUBSCRIBER LINE	OS	OCCUPANCY SENSOR
DW	DISHWASHER	OSP	OUTSIDE PLANT
DWG	DRAWING		
		P	POLE
(E)	EXISTING	PBX	PRIVATE BRANCH EXCHANGE
EA	EACH	PC	PHOTOCELL
EC	ELECTRICAL CONTRACTOR	PF	POWER FACTOR
ECB	ENCLOSED CIRCUIT BREAKER	PH	PHASE
EF	EXHAUST FAN	PIR	PASSIVE INFRARED
EIA	ELECTRONIC INDUSTRIES ASSOCIATION	PIV	POST INDICATOR VALVE
ELEV	ELEVATION	PNL	PANEL
EM	EMERGENCY	POS	POINT OF SALE
EMT	ELECTRICAL METALLIC TUBING	PP	PATCH PANEL
ENCL	ENCLOSURE	PSE	PUGET SOUND ENERGY
EPM	ELECTRONIC POWER METER	PT	POTENTIAL TRANSFORMER
EPO	EMERGENCY POWER OFF	PUD	PUBLIC UTILITY DISTRICT
EQUIP	EQUIPMENT	PV	PHOTO VOLTAIC
ETR	EXISTING TO REMAIN	PVC	POLYVINYL CHLORIDE
EV	ELECTRIC VEHICLE (CHARGER LOCATION)		
EWC	ELECTRIC WATER COOLER	(R)	RELOCATED EXISTING
		RCP	REFLECTED CEILING PLAN
F	FUSE; DEGREES FAHRENHEIT	REC	RECEPTACLE
FA	FIRE ALARM	REF	REFER TO; REFRIGERATOR
FAAP	FIRE ALARM ANNUNCIATOR PANEL	REV	REVISION
FACP	FIRE ALARM CONTROL PANEL	RM	ROOM
FBO	FURNISHED BY OWNER; FURNISHED BY OTHERS	RQMTS	REQUIREMENTS
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	RU	RACK UNIT
FSD	FIRE SMOKE DAMPER		
FUT	FUTURE	SAN	STORAGE AREA NETWORK
		SHT	SHEET
G	GROUND	SLC	SIGNALING LINE CIRCUIT
GEN	GFENERATOR	SM	SINGLEMODE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SMFC	SURFACE-MOUNTED OPTICAL FIBER CABINET
GFP	GROUND FAULT PROTECTION	SMR	SURFACE METAL RACEWAY
GND	GROUND	SONET	SYNCHRONOUS OPTICAL NETWORK
GRS	GALVANIZED RIGID STEEL	SP	SERVICE PROVIDER
		SPD	SURGE PROTECTIVE DEVICE
HC	HORIZONTAL CROSS-CONNECT	SPEC	SPECIFICATIONS
HH	HANDHOLE	SPST	SINGLE POLE SINGLE THROW
HID	HIGH INTENSITY DISCHARGE	SQ	SQUARE
HOA	HAND-OFF-AUTO	ST	SHUNT TRIP
HP	HORSEPOWER	STP	SHIELDED TWISTED PAIR
HTR	HEATER	SVGA	SUPER VIDEO GRAPHICS ARRAY
HWT	HOT WATER TANK	SW	SWITCH
HZ	HERTZ	SWBD	SWITCHBOARD
IC	INTERMEDIATE CROSS CONNECT		
IBC	INTERNATIONAL BUILDING CODE		
IDF	INTERMEDIATE DISTRIBUTION FRAME		
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS		
IG	ISOLATED GROUND		
IMC	INTERMEDIATE METALLIC CONDUIT		
ISDN	INTEGRATED SERVICES DIGITAL NETWORK		
J	JUNCTION		

GENERAL NOTES

1.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE NATIONAL AND STATE CODES AS REQUIRED AND ENFORCED BY THE AHJ.
2.

CONTRACTOR SHALL ACQUIRE AND PAY FOR ALL PERMITS REQUIRED FOR INSTALLATION OF WORK. REQUIRED INSPECTIONS SHALL BE ARRANGED BY THE CONTRACTOR.
3.

CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY SERVICE PROVIDERS FOR THE PROJECT. INSTALLATION OF UTILITY SERVICES SHALL BE IN ACCORDANCE AND CONFIRMED WITH THE UTILITY COMPANY REQUIREMENTS. PROVIDE AN ELECTRICAL DRAWING SUBMITTAL TO UTILITY SERVICE PROVIDER FOR APPROVAL PRIOR TO ROUGH-IN AND ORDERING MATERIAL AND EQUIPMENT.
4.

DRAWINGS ARE DIAGRAMMATIC. PROVIDE MATERIALS AND COMPONENTS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS.
5.

DEVICE LOCATIONS ARE AN APPROXIMATION. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH THE PROJECT DOCUMENTS INCLUDING, BUT NOT LIMITED TO CASEWORK SHOP DRAWINGS AND THE ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
6.

COORDINATE ELECTRICAL AND TELECOMMUNICATIONS WORK WITH WORK OF OTHER TRADES. REFERENCE THE MECHANICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO ORDERING OF MATERIALS AND INSTALLATION OF WORK.
7.

COORDINATE LOCATION OF LIGHT FIXTURES AND CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS.
8.

ALL LIGHT FIXTURES PENETRATING A RATED CEILING SHALL BE PROVIDED WITH A RATED ENCLOSURE AROUND THE FIXTURE. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
9.

SEE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXPANSION OR SEISMIC JOINT LOCATIONS. CONTRACTOR SHALL PROVIDE CONDUIT/RACEWAY EXPANSION OR SEISMIC JOINTS IN LOCATIONS WHERE CONDUITS/RACEWAYS CROSS BUILDING EXPANSION OR SEISMIC JOINTS.
10.

WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE PROJECT SCHEDULE. INSTALLATION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES AT THE PROJECT SITE TO ENSURE PROJECT SCHEDULE MILESTONES ARE COMPLETED AS INDICATED.
11.

THE ELECTRICAL AND LOW VOLTAGE SYSTEM DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW EVERY PATHWAY, RACEWAY, BOX, CONDUCTOR, CABLE OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION. PROVIDE ALL REQUIRED MATERIAL AND LABOR FOR COMPLETE AND OPERATIONAL ELECTRICAL AND LOW VOLTAGE SYSTEMS.
12.

BRANCH CIRCUIT HOMERUNS ARE PROVIDED TO INDICATE CIRCUITS AND CONFIGURATION. SINGLE CIRCUIT HOMERUNS SERVED FROM THE SAME PANEL CAN BE COMBINED PER THE PROVIDED DIVISION 26 SPECIFICATIONS, UNLESS OTHERWISE NOTED. BRANCH CIRCUIT RACEWAY AND WIRING SHALL BE PROVIDED FROM THE HOMERUN TO DEVICES AND EQUIPMENT WITH CIRCUIT NUMBERS AS INDICATED ON THE DRAWINGS. CONDUCTOR QUANTITIES AND SIZES ARE NOTED AT HOMERUNS. RECORD DRAWINGS SHALL IDENTIFY THE INSTALLED RACEWAY ROUTING AND CIRCUITING. BRANCH CIRCUIT MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG.
13.

LIGHT FIXTURES MOUNTED IN CONTINUOUS ROWS SHALL BE THROUGH-WIRED VIA FIXTURE INTERNAL WIREWAYS. CIRCUITS AS INDICATED ON DRAWINGS. FIXTURES NOT LISTED FOR THROUGH WIRING SHALL BE WIRED VIA SEPARATE RACEWAY AND WIRING SYSTEM EXTERNAL TO THE FIXTURES. PROVIDE RACEWAYS, WIRING AND CONNECTIONS, AS REQUIRED, FOR A COMPLETE AND OPERATIONAL SYSTEM.
14.

TELECOMMUNICATIONS AND LOW VOLTAGE CABLING INSTALLATIONS SHALL BE CONCEALED IN WALLS, CEILINGS, AND BELOW RAISED FLOOR SPACES (WHERE APPLICABLE) UNLESS OTHERWISE NOTED ON THE DRAWINGS. CABLING IN ACCESSIBLE CEILING SPACES SHALL BE INSTALLED AS OPEN CABLING ON J-HOOKS OR INDICATED SUPPORTING METHOD NEAR STRUCTURES AND WALLS OR AS NOTED ON DRAWINGS. SEE PROJECT SPECIFICATIONS FOR CABLE SUPPORT REQUIREMENTS.
15.

PROVIDE FIRE-STOPPING MATERIALS OR DEVICES FOR CONDUIT AND/ OR RACEWAY SYSTEMS AT SLEEVED PENETRATIONS IN FIRE-RATED CONSTRUCTION ASSEMBLIES FOR HORIZONTAL AND INTRABUILDING CABLING PATHWAYS AND SPACES.
16.

SEE TELECOMMUNICATIONS SPECIFICATION FOR BACKBONE CABLE IDENTIFICATION REQUIREMENTS CONSISTING OF A COPPER AND FIBER CABLE MARKER TAG PROVISIONS IN PULL BOXES, ENTRANCE POINTS, RISER ROOMS, TELECOMMUNICATION ROOMS, VAULTS AND AT THE POINT OF TERMINATION SUCH AS A SERVICE ENTRANCE PROTECTION BLOCK, 110-FIELD, SURFACE MOUNT FIBER CABINET OR RACK MOUNT FIBER CABINET.
17.

TELECOMMUNICATIONS CABLING SHALL MAINTAIN A MINIMUM SPACING OF 12" FROM ELECTRICAL FEEDERS AND BRANCH CIRCUIT WIRING AND 12" FROM AUXILIARY SYSTEM CABLING.
18.

TELECOMMUNICATIONS OPEN CABLING SHALL BE PROVIDED WITH A 6'-0" MINIMUM SPACING FROM ELECTRICAL APPARATUS SUCH AS MOTOR DRIVEN EQUIPMENT AND TRANSFORMERS. EXCEPTION: BUILDING CONSTRUCTION THAT RESULTS IN CONTINUOUS METALLIC BARRIER BETWEEN ELECTRICAL APPARATUS AND CABLE PATHWAYS.
19.

PRIOR TO STARTING TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEM INSTALLATION, INSPECT THE ELECTRICAL ROUGH-IN AND INSTALLED WORK OF OTHER TRADES AND VERIFY WORK IS COMPLETE TO THE POINT WHERE TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEM INSTALLATION CAN PROPERLY PROCEED. NOTIFY THE ARCHITECT AND ENGINEER OF UNSATISFACTORY CONDITIONS RELATED TO THE COMPLETION OF THE WORK.
20.

DO NOT BEGIN TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEM INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS HAVE BEEN ADDRESSED AND RESOLVED. PROCEEDING WITH INSTALLATION OF THE TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS CONSTITUTES ACCEPTANCE OF CONDITIONS AS SATISFACTORY.
21.

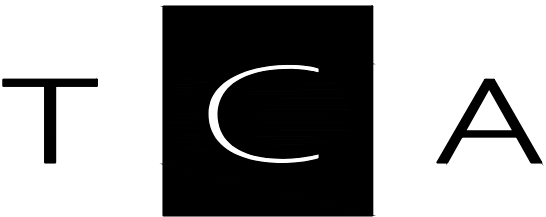
PROVIDE ROUTING OF TELECOMMUNICATIONS SYSTEM HORIZONTAL COPPER UTP TO THEIR ASSIGNED CROSS-CONNECT PER THE IDENTIFICATION LABEL PROVIDED AT EACH TELECOMMUNICATIONS DEVICE ON THE PROJECT DRAWINGS OR CONTRACTOR SHOP DRAWINGS. PROVIDE TERMINATION OF THE HORIZONTAL COPPER CABLING ON 24-PORT AND/ OR 48-PORT PATCH PANELS, UNLESS OTHERWISE NOTED.
22.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, OUTLET BOXES, JUNCTION BOXES, PULL BOXES, RACEWAY SYSTEMS, ETC. FOR ALL TELECOMMUNICATIONS AND LOW VOLTAGE SYSTEMS PER THE SCOPE OF WORK INDICATED ON THE BID DRAWINGS AND SPECIFICATIONS.

ENERGY CODE NOTES

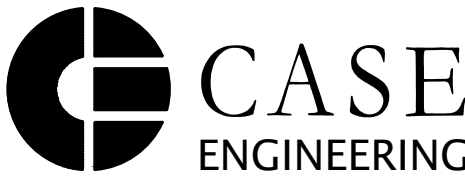
1.

LIGHTING CONTROL SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS: TEST SYSTEMS TO ENSURE THAT BUILDING SYSTEMS HAVE BEEN INSTALLED AND FUNCTION PROPERLY, EFFICIENTLY AND CAN BE MAINTAINED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND OPERATIONAL REQUIREMENTS PER ENERGY CODE ENFORCED BY THE AHJ. REFER TO SPECIFICATION SECTION 26 08 00 FOR ADDITIONAL COMMISSIONING REQUIREMENTS.



ARCHITECTURE + PLANNING + DESIGN

6211 ROOSEVELT WAY
NORTHEAST
SEATTLE, WA 98115
tel: (206) 522-3830
fax: (206) 522-2456



19515 North Creek Parkway, Suite 302
Bothell, WA 98011
425-402-9400 office@caseeng.com



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No.	Description	Date:

Project Title:

Clyde Hill City Hall Office
Revisions

CITY OF CLYDE HILL
9606 NE 24th St, Clyde Hill, WA 98004

Sheet Title:

ELECTRICAL ABBREVIATIONS
AND GENERAL NOTES

Scale: NOTED

Project No.: 16-32

Date: 09/20/2022

Sheet Number:

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General Space Type	Specific Space Type	Ceiling Height (Ft)	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts (LPD + Display LPD)	Compliance Status
Office	Enclosed less than 250 sf		137	0.74	101	66	
Totals					101	66	COMPLIES

Proposed Lighting Power Density						
Fixture Type	Fixture ID	Quantity of Fixtures (qF)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (qF x WpF) or (LF x WpLF)
Individual Fixtures						
Troffer	F2	2	33			66
Proposed Total LPD						66

Project Title	Clyde Hill City Hall - Office Remodel - 2018 WSEC	Date	May 18, 2022	
Proposed Fixtures Details				
CHANGE IN OCCUPANCY - INTERIOR LIGHTING				
Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	New or Existing-to-Remain
Individual Fixtures				
Troffer	F2	E3.1	LED	New
Fixture Description:		Are these fixtures located within a daylight zone?:		
Do these fixtures require specific application lighting controls?:				

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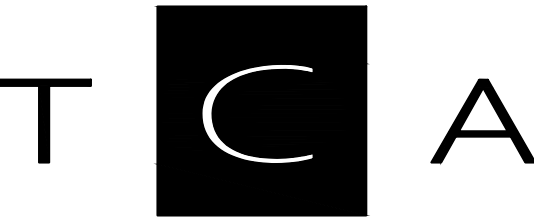
LIGHTING COMPLIANCE SUMMARY								
2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1								
Administered by: ©2022 NEEA, All rights reserved								
Project & Applicant Information	Project Title	Clyde Hill City Hall - Office Remodel - 2018 WSEC			For Building Department Use:	Date: May 18, 2022		
	Project Address	9605 NE 24th St Clyde Hill, WA 98004						
	Applicant Name	Sarah Elley						
	Applicant Phone	206-522-3830						
	Applicant Email	sarah@tea-inc.com						
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com								
General Occupancy	All Commercial			General Building Use Type	Public Services, Other	Building Cond. Floor Area	6,627	
General Project Types	Building Addition Alteration Change in Occupancy (Group F, S or U converted to another commercial occupancy)			New Building or Addition Lighting Scope	Interior Lighting	Alteration Lighting Scope	Project Cond. Floor Area Floors Above Grade	6,627 1
						Interior Lighting	Compliance Method	Compliance Method 1 - General
Lighting Project Description				New LED lighting and controls in reconfigured spaces and existing offices. LED replacement fixtures in hallway with no new controls. LED lighting in council room with existing controls.				
Lighting Compliance Scope and Method	Project Type	Interior / Exterior (Interior includes both interior & parking)	Luminaire Replacement Scope	Compliance Method	LPA Calculation Adjustment	Compliance Verification		
	Alteration	Interior Lighting	50% or more replaced	Space by space	No Calculation Adjustments allowed	COMPLIES		
	Building Addition	Interior Lighting		Building area	No Calculation Adjustments selected	COMPLIES		
	Change in Occupancy	Interior Lighting		Space by space	No Calculation Adjustments selected	COMPLIES		
Additional Efficiency Options Included								
Project Title				Clyde Hill City Hall - Office Remodel - 2018 WSEC	Date		May 18, 2022	
Lighting Power Calculation		ALTERATION - INTERIOR LIGHTING (50% or more replaced)			Compliance Verification			COMPLIES
Compliance Method		Space by space		LPA Calculation Adjustment		none		
Interior Lighting Power Allowance - Space by Space								
General Space Type	Specific Space Type	Ceiling Height (Ft)	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts (LPD + Display LPD)	Compliance Status	
Conference/meeting/multipurpose			685	0.97	664			
Corridors	General		102	0.41	42			
Office	Enclosed less than 250 sf		432	0.74	320			
Storage room	50-100 sf		77	0.38	29			
Totals					1,055	512	COMPLIES	
Proposed Lighting Power Density								
Fixture Type	Fixture ID	Quantity of Fixtures (qF)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (qF x WpF) or (LF x WpLF)		
Individual Fixtures								
Troffer	F2	2	33			66		
Troffer	F1	10	32			320		
Recessed downlight	F3	14	9			126		
Proposed Total LPD						512		

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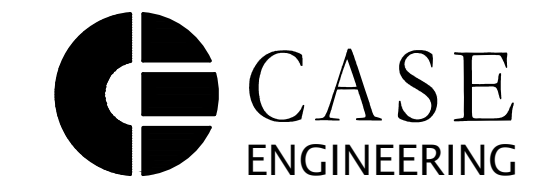
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Project Title	Clyde Hill City Hall - Office Remodel - 2018 WSEC	Date	May 18, 2022					
Proposed Fixtures Details								
ALTERATION - INTERIOR LIGHTING (50% or more replaced)								
Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	New or Existing-to-Remain				
Individual Fixtures								
Troffer	F2	E3.1	LED	New				
Fixture Description:		Are these fixtures located within a daylight zone?:						
Do these fixtures require specific application lighting controls?:								
Troffer	F1	E3.1	LED	New				
Fixture Description:		Are these fixtures located within a daylight zone?:						
Do these fixtures require specific application lighting controls?:								
Recessed downlight	F3	E3.1	LED	New				
Fixture Description:		Are these fixtures located within a daylight zone?:						
Do these fixtures require specific application lighting controls?:								
Project Title				Clyde Hill City Hall - Office Remodel - 2018 WSEC	Date		May 18, 2022	
Lighting Power Calculation		BUILDING ADDITION - INTERIOR LIGHTING			Compliance Verification			COMPLIES
Compliance Method		Building area		LPA Calculation Adjustment		none		
Interior Lighting Power Allowance - Building Area								
Building Areas	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Total Proposed Watts By Building Area	Compliance Status by Building Area			
Office	73	0.64	47	32	COMPLIES			
Proposed Lighting Power Density								
Fixture Type/Application	Fixture ID	Building Area	New or Existing-to-Remain	Quantity of Fixtures, CLDs or Luminaires (qF)	Watts per Fixture, CLD or Luminaire (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (qF x WpF) or (LF x WpLF)
Individual Fixtures								
Troffer	F1	Office	New	1	32			32
Project Title				Clyde Hill City Hall - Office Remodel - 2018 WSEC	Date		May 18, 2022	
Proposed Fixtures Details		BUILDING ADDITION - INTERIOR LIGHTING						
Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	Building Area	New or Existing-to-Remain			
Individual Fixtures								
Troffer	F1	E3.1	LED	Office	New			
Fixture Description:		Are these fixtures located within a daylight zone?: Yes, controls provided						
Daylight zone location(s):		Dimming method: Continuous dimming						
Do these fixtures require specific application lighting controls?:								
Project Title				Clyde Hill City Hall - Office Remodel - 2018 WSEC	Date		May 18, 2022	
Lighting Power Calculation		CHANGE IN OCCUPANCY - INTERIOR LIGHTING			Compliance Verification			COMPLIES
Compliance Method		Space by space		LPA Calculation Adjustment		none		
Interior Lighting Power Allowance - Space by Space								

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6211 ROOSEVELT WAY
NORTHEAST
SEATTLE, WA 98115
tel: (206) 522-3830
fax: (206) 522-2456



19515 North Creek Parkway, Suite 302
Bothell, WA 98011
425-402-9400 office@caseeng.com



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Sheet Title:

NREC

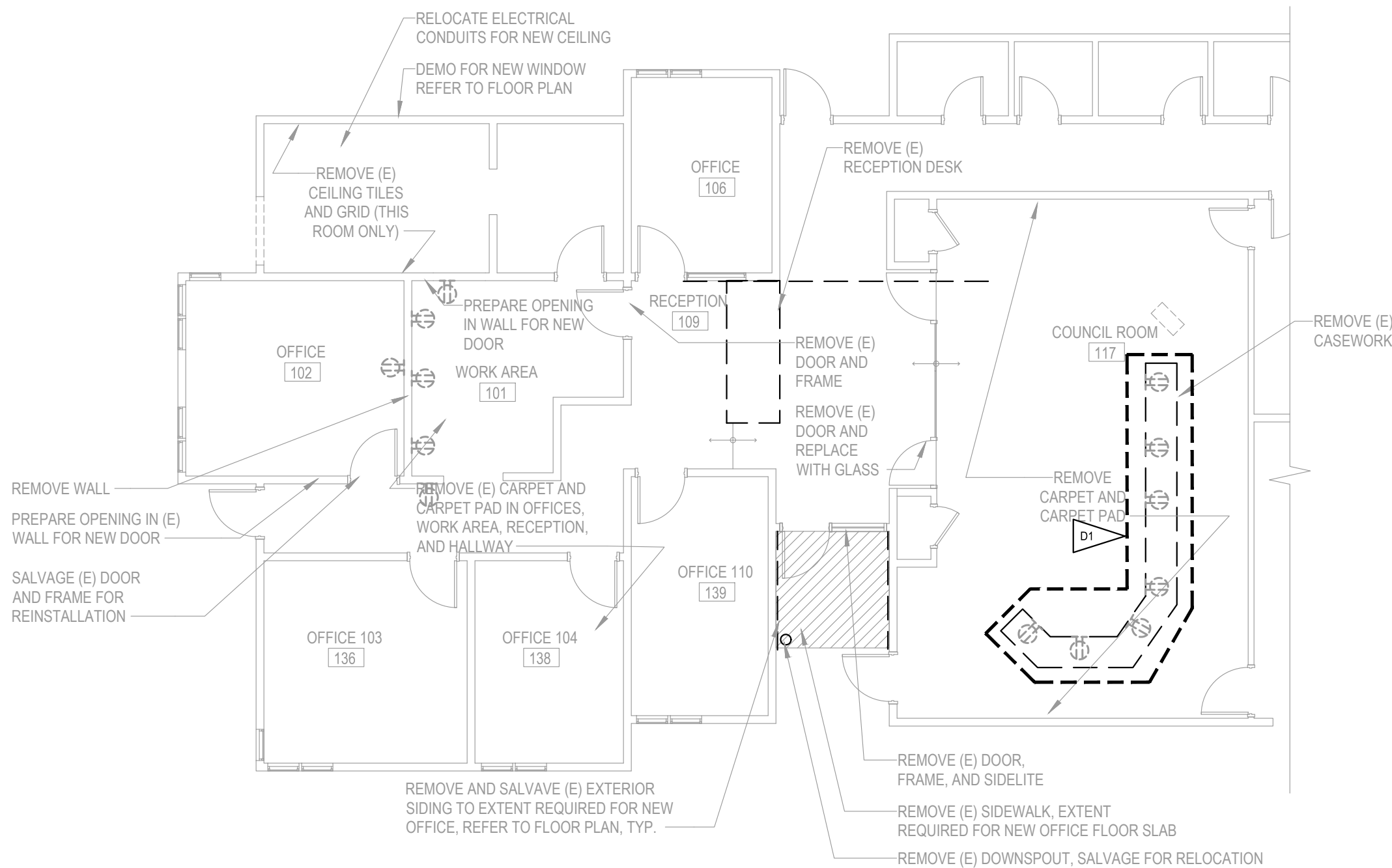
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Project No.: 16-32

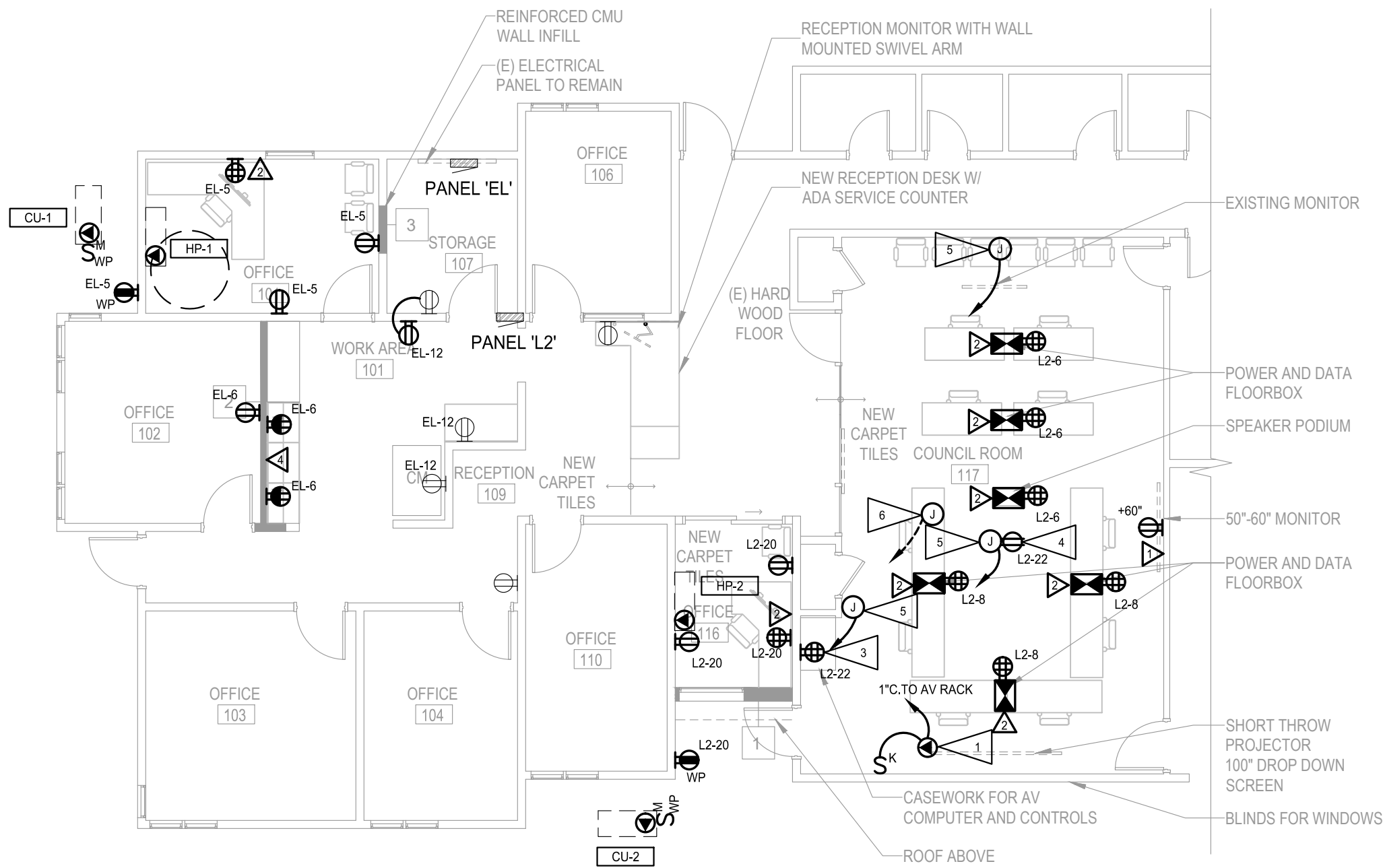
Date : 09/20/2022

Sheet Number :

E0.3



1ST FLOOR DEMO POWER FLOOR PLAN
SCALE: 1/8" = 1'0"



POWER / COMM FLOOR PLAN
SCALE: 1/8" = 1'0"

DEMOLITION GENERAL NOTES:

- VISIT AND EXAMINE THE SITE PRIOR TO CONSTRUCTION TO ASCERTAIN THE CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
- DISPOSE OF ALL REMOVED EQUIPMENT UNLESS DIRECTED TO DO OTHERWISE BY THESE DOCUMENTS FOR THE OWNER.
- DISCONNECT, REMOVE OR RELOCATE EXISTING ELECTRICAL INSTALLATION AS INDICATED. THIS INCLUDES, BUT NOT LIMITED TO PANELS, LIGHT FIXTURES, WIRING DEVICES, SIGNAL EQUIPMENT, EXHAUST FANS, BASEBOARD HEATERS, UNIT HEATERS, ETC. COORDINATE WITH MECHANICAL PRIOR TO DEMOLITION OF AN EQUIPMENT.
- SEE MECHANICAL DRAWINGS FOR HEATERS, EXHAUST FANS, ETC. WHICH MUST BE DISCONNECTED BY DIVISION 26 FOR REMOVAL OR ABANDONMENT BY DIVISION 23.
- REMOVE ALL CONDUIT, WIRE, BOXES, AND FASTENING DEVICES AS REQUIRED TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION OR THAT WOULD BE VISIBLE WHEN PROJECT IS COMPLETE. ABANDONED CONDUIT SHALL BE CAPPED AT BOTH ENDS. PROVIDE STAINLESS STEEL COVERPLATE FOR BOXES. SEE GENERAL NOTE THIS SHEET.
- SYSTEMS WHICH REQUIRE INTERRUPTION OF SERVICE SHALL BE COORDINATED WITH OWNER.
- REMOVE ALL EXISTING LIGHTING FIXTURES AND POWER SYSTEMS AS INDICATED OR REQUIRED TO CLEAR AREA FOR NEW INSTALLATION. ALL EXISTING POWER SYSTEMS MAY NOT BE SHOWN.
- RECONNECT ANY EQUIPMENT BEING DISTURBED BY THESE RENOVATIONS YET REQUIRED FOR CONTINUED SERVICE.
- WHERE WORK (WALL REMOVAL, NEW OR RELOCATED WALL OPENINGS, ETC.) RESULTS IN THE REMOVAL OF LIGHT FIXTURES, DISCONNECT OR RECONNECT ALL REMAINING ACTIVE DEVICES REMAINING ON THE CIRCUIT SYSTEM AS REQUIRED.

DEMOLITION FLAG NOTES

- D1 DEMOLISH ALL DEVICES FROM CASEWORK.

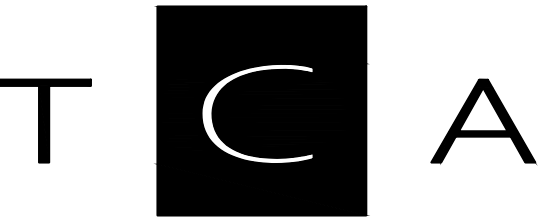
GENERAL NOTES

- CIRCUIT NUMBERS SHOWN REFER TO PANEL L2 UNLESS OTHERWISE NOTED.
- COORDINATE ALL CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL CEILING PLANS. WHERE CONFLICT OCCURS, ARCHITECTURAL R.C.P. TAKES PRECEDENT EXCEPT WHEN LOCATION IS MODIFIED BY CODE AUTHORITY.
- WALL MOUNTED DEVICES SHALL NOT BE MOUNTED BACK TO BACK UNLESS PHYSICAL SPACE NECESSITATES IT, IF THESE DEVICES MUST BE MOUNTED BACK TO BACK, PROVIDE SOUND INSULATION AT BOXES.
- FOR BRANCH CIRCUITS THAT EXCEED 75' IN LENGTH, INCREASE WIRE BY ONE AWG SIZE.
- PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS.
- SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF ALL DEVICE LOCATIONS, UNLESS OTHERWISE NOTED. DEVICES IN KNEE SPACES ARE LOCATED BETWEEN THE COUNTERTOP AND CABLE TRAY. SEE ARCHITECTURAL CASEWORK ELEVATIONS AND DETAILS FOR EXACT MOUNTING HEIGHTS.
- FOR ANY DEVICE MOUNTING LOCATION THAT CONFLICTS WITH A MIRROR, GENERAL CONTRACTOR SHALL COORDINATE DEVICE LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
- PROVIDE ALL CONDUIT, BOXES AND WIRE AS REQUIRED BY WAC, NEC, AND SPECIFICATIONS SECTIONS 26 05 00, 26 05 11, 26 05 19, 26 05 32 AND 26 05 33 FOR A FULLY FUNCTIONING SYSTEM.
- ALL ELECTRICAL BOXES SHALL BE RECESSED UNLESS OTHERWISE NOTED. SURFACE MOUNTED BOXES ARE GENERALLY NOT ACCEPTABLE. INFORM ARCHITECT WHERE NOT POSSIBLE PRIOR TO ORDERING MATERIAL AND ROUGH-IN. RECESS BOXES IN OPENED, NEW AND/OR NEWLY FURRED WALLS. IF DEVICE IS SHOWN IN AN EXISTING CONCRETE OR MASONRY WALL PROVIDE SURFACE METAL RACEWAY BOX AND DRILL WALL FROM OPPOSITE SIDE IN EFFORT TO CONCEAL CONDUIT/WIRE IN FRAMING.

FLAG NOTES

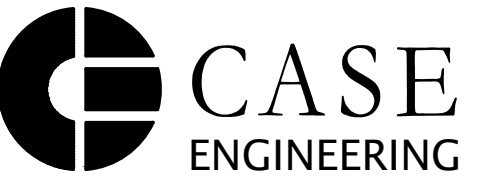
- PROVIDE POWER CONNECTION TO MOTORIZED SHADE MOTOR. PROVIDE THREE-POSITION KEYED SWITCH. COORDINATE REQUIREMENTS WITH SHADE INSTALLER AND PROVIDE.
- PROVIDE PLUG-LOAD POWER PACK CONNECTED TO ROOM LIGHTING CONTROL VACANCY SENSOR FOR PLUG LOAD CONTROL.
- AV CABINET. COORDINATE EXACT LOCATION WITH A/V INSTALLER PRIOR TO ROUGH-IN.
- PROJECTOR. COORDINATE EXACT LOCATION WITH A/V INSTALLER PRIOR TO ROUGH-IN.
- AV SYSTEM LOW VOLTAGE ROUGH IN. PROVIDE J-BOX AND 1" HOMERUN BACK TO AV RACK LOCATION. SEE FLAG NOTE 3, THIS SHEET. COORDINATE MOUNTING HEIGHT WITH AV INSTALLER PRIOR TO ROUGH-IN.
- CRESTRON REMOTE PANEL. PROVIDE J-BOX AND 1" HOMERUN BACK TO AV RACK LOCATION. SEE FLAG NOTE 3, THIS SHEET. COORDINATE EXACT LOCATION WITH AV INSTALLER PRIOR TO ROUGH-IN.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE											
TAG	DESCRIPTION	HP /KW /V/A	VOLTS / PHASE	MCA	FUSE (MOCP)	DISC. SWITCH	STARTER	CIRCUIT	COPPER FEEDER SIZE	TAG	REMARKS / NOTES
HP-1	HEAT PUMP - OFFICE 101	-	208V/1PH	1	-	Sm	-	L2-26,28	3/4" C, 3#12, 1#12 GND	HP-1	1,3
CU-1	CONDENSING UNIT	-	208V/1PH	10	(15)	Sm	-	L2-26,28	3/4" C, 3#12, 1#12 GND	CU-1	1,2
HP-2	HEAT PUMP - OFFICE 116	1/4 HP	208V/1PH	1	-	Sm	-	L2-30,32	3/4" C, 3#12, 1#12 GND	HP-2	1,3
CU-2	CONDENSING UNIT	1 HP	208V/1PH	10	(15)	Sm	-	L2-30,32	3/4" C, 3#12, 1#12 GND	CU-2	1,2
GENERAL EQUIPMENT CONNECTION SCHEDULE NOTES (APPLIES TO ALL EQUIPMENT LISTED IN SCHEDULE) A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. THE ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR ACTUAL LOADS, CIRCUIT AMPACITY AND OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO ELECTRICAL ROUGH-IN. B. LOCATE ALL DISCONNECTING MEANS PER NEC AND A/H REQUIREMENTS. STARTERS ARE SEPARATELY MOUNTED UNLESS OTHERWISE NOTED. C. ABBREVIATIONS: Sm: MOTOR RATED TOGGLE SWITCH. D. ALL DISCONNECTS ARE 2 POLE UNLESS NOTED OTHERWISE. SCHEDULE NOTES (APPLIES TO SPECIFIC EQUIPMENT AS NOTED IN "NOTES" COLUMN) 1. CONTROL BY DIVISION 23 CONTRACTOR. 2. PROVIDE WEATHERPROOF 2P MOTOR RATED TOGGLE FOR DISCONNECTING MEANS. 3. PROVIDE 2P MOTOR RATED TOGGLE FOR DISCONNECTING MEANS.											



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NORTHEAST
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Revisions
CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

Sheet Title:

POWER / COMM PLAN


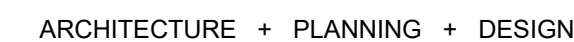
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Project No.: 16-32

Date: 09/20/2022

Sheet Number:

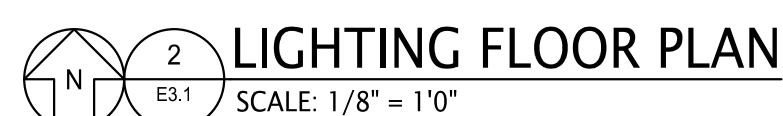
E2.1



1. VISIT AND EXAMINE THE SITE PRIOR TO CONSTRUCTION TO ASCERTAIN THE CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
2. DISPOSE OF ALL REMOVED EQUIPMENT UNLESS DIRECTED TO DO OTHERWISE BY THESE DOCUMENTS FOR THE OWNER.
3. DISCONNECT, REMOVE OR RELOCATE EXISTING ELECTRICAL INSTALLATION AS INDICATED. THIS INCLUDES, BUT NOT LIMITED TO PANELS, LIGHT FIXTURES, WIRING DEVICES, SIGNAL EQUIPMENT, EXHAUST FANS, BASEBOARD HEATERS, UNIT HEATERS, ETC. COORDINATE WITH MECHANICAL PRIOR TO DEMOLITION OF AN EQUIPMENT.
4. SEE MECHANICAL DRAWINGS FOR HEATERS, EXHAUST FANS, ETC. WHICH MUST BE DISCONNECTED BY DIVISION 26 FOR REMOVAL OR ABANDONMENT BY DIVISION 23.
5. REMOVE ALL CONDUIT, WIRE, BOXES, AND FASTENING DEVICES AS REQUIRED TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION OR THAT WOULD BE VISIBLE WHEN PROJECT IS COMPLETE. ABANDONED CONDUIT SHALL BE CAPPED AT BOTH ENDS. PROVIDE STAINLESS STEEL COVERPLATE FOR BOXES. SEE GENERAL NOTE THIS SHEET.
6. SYSTEMS WHICH REQUIRE INTERRUPTION OF SERVICE SHALL BE COORDINATED WITH OWNER.
7. REMOVE ALL EXISTING LIGHTING FIXTURES AND POWER SYSTEMS AS INDICATED OR REQUIRED TO CLEAR AREA FOR NEW INSTALLATION. ALL EXISTING POWER SYSTEMS MAY NOT BE SHOWN.
8. RECONNECT ANY EQUIPMENT BEING DISTURBED BY THESE RENOVATIONS YET REQUIRED FOR CONTINUED SERVICE.
9. WHERE WORK (WALL REMOVAL, NEW OR RELOCATED WALL OPENINGS, ETC.) RESULTS IN THE REMOVAL OF LIGHT FIXTURES, DISCONNECT OR RECONNECT ALL REMAINING ACTIVE DEVICES REMAINING ON THE CIRCUIT SYSTEM AS REQUIRED.

1. CIRCUIT NUMBERS SHOWN REFER TO PANEL P1 UNLESS OTHERWISE NOTED.
2. COORDINATE ALL CEILING MOUNTED DEVICE LOCATIONS WITH ARCHITECTURAL CEILING PLANS. WHERE CONFLICT OCCURS, ARCHITECTURAL R.C.P. TAKES PRECEDENT EXCEPT WHEN LOCATION IS MODIFIED BY CODE AUTHORITY.
3. WALL MOUNTED DEVICES SHALL NOT BE MOUNTED BACK TO BACK UNLESS PHYSICAL SPACE NECESSITATES IT. IF THESE DEVICES MUST BE MOUNTED BACK TO BACK, PROVIDE SOUND INSULATION AT BOXES.
4. FOR BRANCH CIRCUITS THAT EXCEED 75' IN LENGTH, INCREASE WIRE BY ONE AWG SIZE.
5. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS.
6. SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF ALL DEVICE LOCATIONS, UNLESS OTHERWISE NOTED. DEVICES IN KNEE SPACES ARE LOCATED BETWEEN THE COUNTERTOP AND CABLE TRAY. SEE ARCHITECTURAL CASEWORK ELEVATIONS AND DETAILS FOR EXACT MOUNTING HEIGHTS.
7. FOR ANY DEVICE MOUNTING LOCATION THAT CONFLICTS WITH A MIRROR, GENERAL CONTRACTOR SHALL COORDINATE DEVICE LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
8. PROVIDE ALL CONDUIT, BOXES AND WIRE AS REQUIRED BY WAC, NEC, AND SPECIFICATIONS SECTIONS 26 05 00, 26 05 11, 26 05 19, 26 05 32 AND 26 05 33 FOR A FULLY FUNCTIONING SYSTEM.
9. ALL ELECTRICAL BOXES SHALL BE RECESSED UNLESS OTHERWISE NOTED. SURFACE MOUNTED BOXES ARE GENERALLY NOT ACCEPTABLE. INFORM ARCHITECT WHERE NOT POSSIBLE PRIOR TO ORDERING MATERIAL AND ROUGH-IN. RECESS BOXES IN OPENED, NEW AND/OR NEWLY FURRED WALLS. IF DEVICE IS SHOWN IN AN EXISTING CONCRETE OR MASONRY WALL PROVIDE SURFACE METAL RACEWAY BOX AND DRILL WALL FROM OPPOSITE SIDE IN EFFORT TO CONCEAL CONDUIT/WIRE IN FRAMING.

1. CIRCUIT NEW DOWNLIGHTS TO EXISTING LIGHTING CONTROLS. TYPICAL.
2. FIELD VERIFY AND LOCATE EXISTING LIGHTING CIRCUIT. REUSE EXISTING CIRCUIT FOR NEW FIXTURES AND CONTROLS.
3. EXTEND LIGHTING CIRCUIT FROM ADJACENT OFFICE 110.



CONFIRM FIXTURE FINISHES WITH ARCHITECT PRIOR TO ORDERING

[illegible]

Project Title:

CITY OF CLYDE HILL
24th St, Clyde Hill, WA

9605 NE 24th St, Clyde Hill, WA 98004

Sheet Title:

LIGHTING PLAN

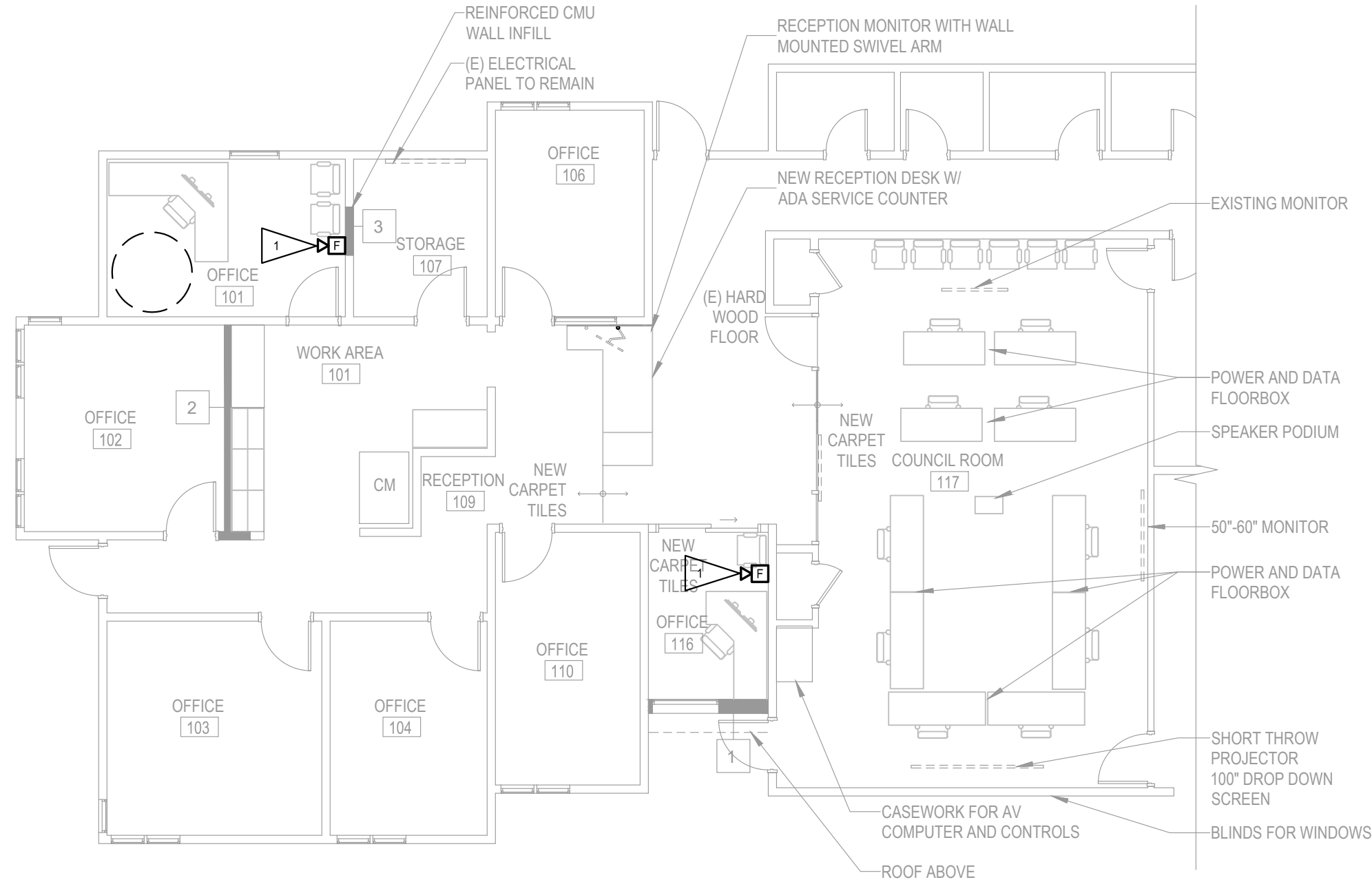
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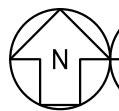
Project No. : 16-32

Date : 09/20/2022

Sheet Number

E3.1




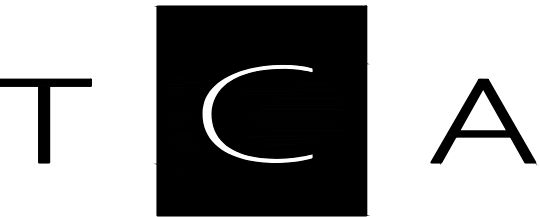
 **FIRE ALARM FLOOR PLAN**
SCALE: 1/8" = 1'0"

GENERAL NOTES

1. EXISTING FACP IS HONEYWELL VISTA 128FBPT. PROVIDE LABOR AND MATERIAL TO MAKE MODIFICATIONS TO EXISTING FIRE ALARM SYSTEM TO COVER NEW SPACES AS REQUIRED PER CODE.
2. COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
3. SUBMIT COMPLETE DRAWINGS AND CALCULATION TO AUTHORITY HAVING JURISDICTION FOR APPROVAL.
4. SUBMIT APPROVED DRAWINGS AND CALCULATIONS TO ENGINEER FOR REVIEW.
5. FOR ANY DEVICE MOUNTING LOCATION THAT CONFLICTS WITH A MIRROR, GENERAL CONTRACTOR SHALL COORDINATE DEVICE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

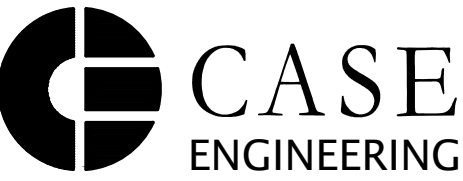
FLAG NOTES

-  PROVIDE NEW HORN STROBE IN NEW OFFICE. PROVIDE LABOR AND MATERIAL AS REQUIRED TO INTEGRATE WITH EXISTING FIRE ALARM SYSTEM.

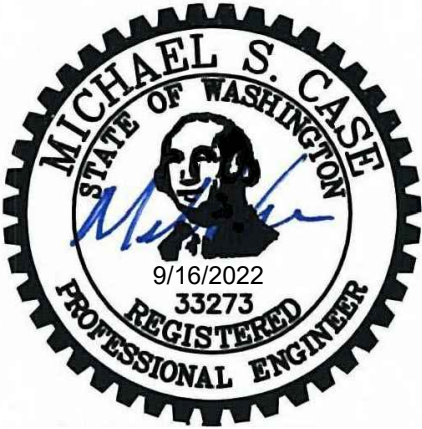


ARCHITECTURE + PLANNING + DESIGN

6211 ROOSEVELT WAY
NORTHEAST
SEATTLE, WA 98115
tel: (206) 522-3830
fax: (206) 522-2456



19515 North Creek Parkway, Suite 302
Bothell, WA 98011
425-402-9400 office@caseeng.com



PERMIT SET

No.	Description	Date:

Project Title:

**Clyde Hill City Hall Office
Revisions**

CITY OF CLYDE HILL
9605 NE 24th St, Clyde Hill, WA 98004

Sheet Title:

FIRE ALARM PLAN

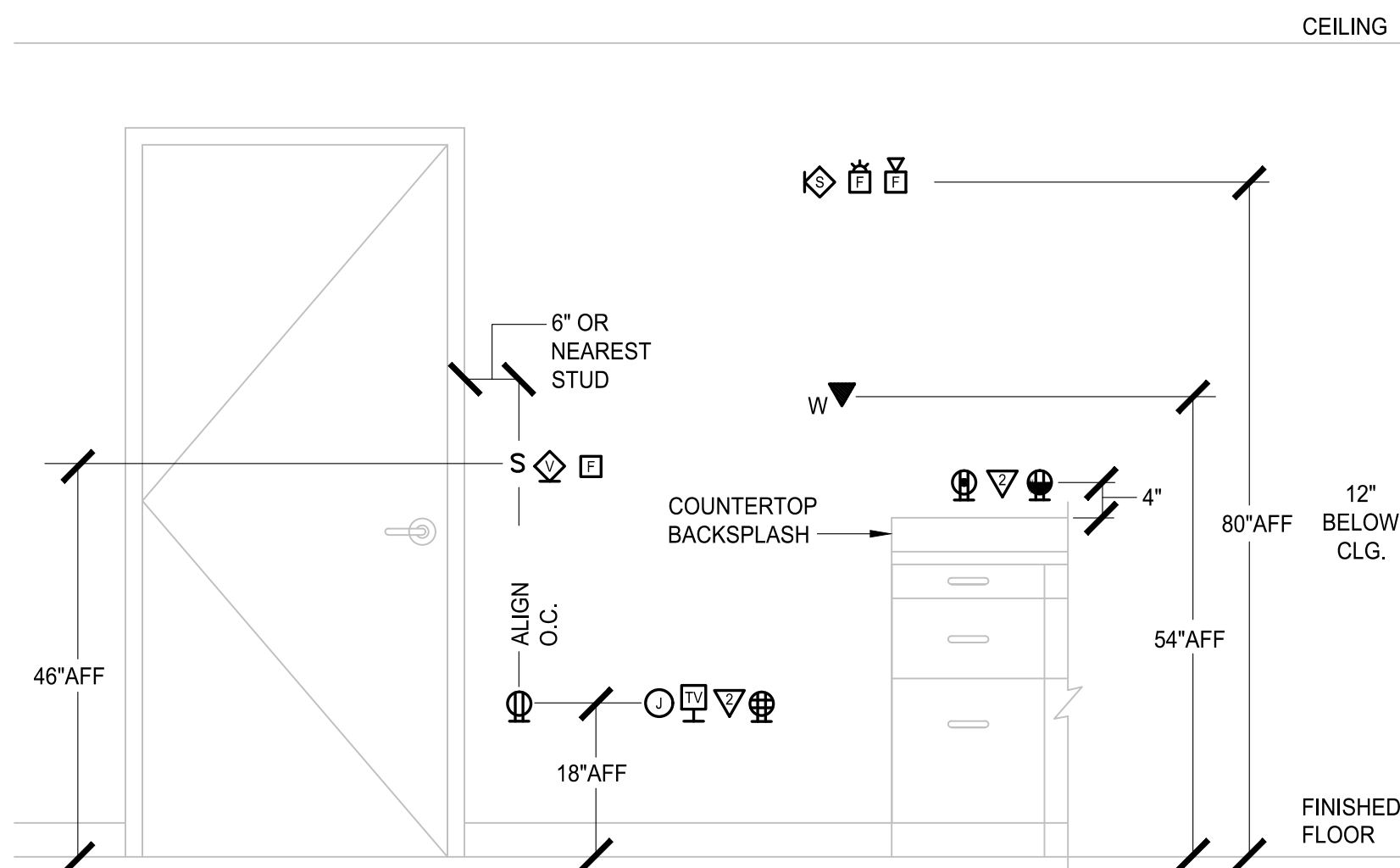
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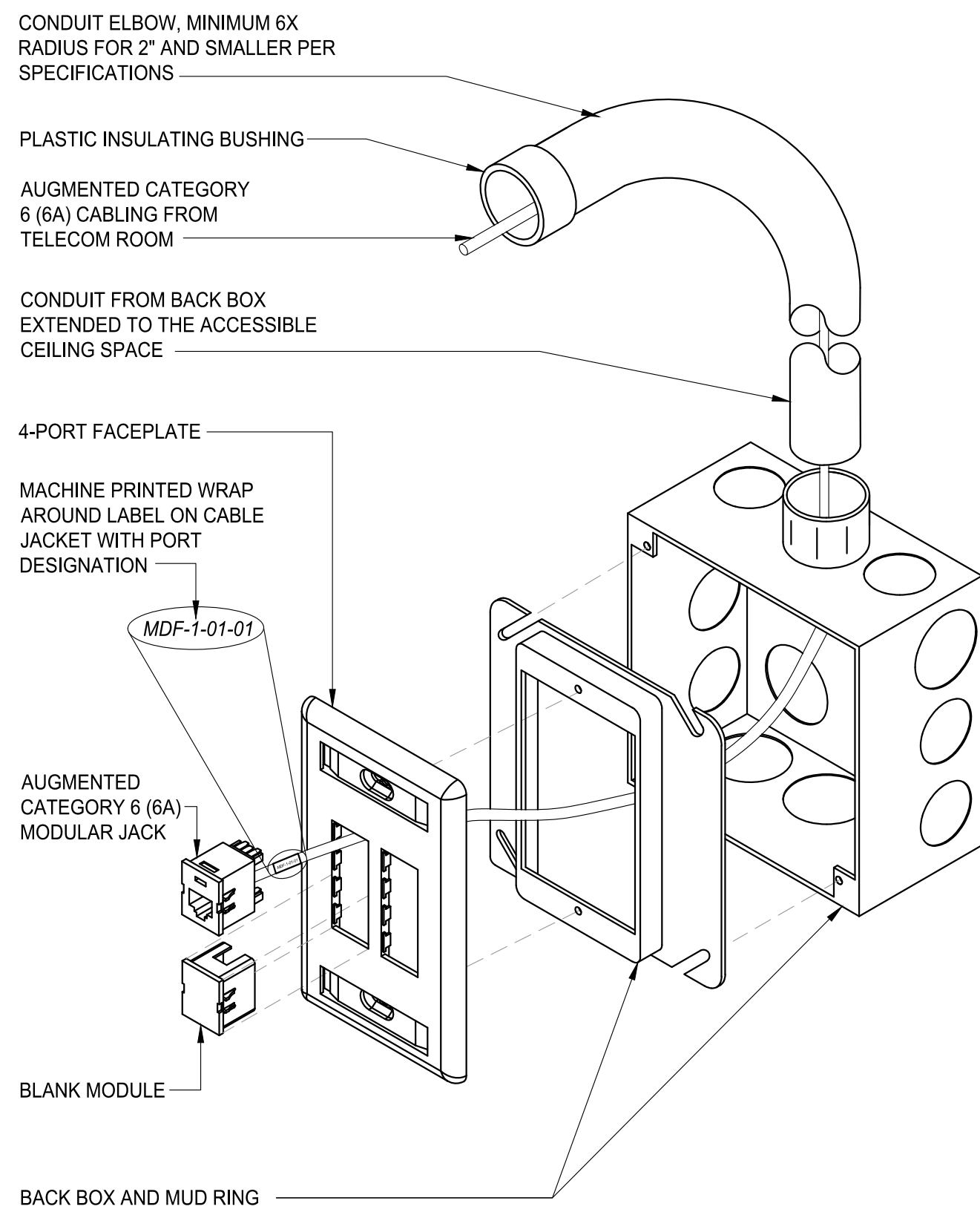
E7.1



GENERAL NOTES

1. MOUNTING HEIGHTS ARE TO THE CENTER OF THE DEVICE AS SHOWN UNLESS OTHERWISE NOTED ON PLANS.
2. VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
3. ALIGN OUTLETS VERTICALLY WHERE POSSIBLE.
4. MOUNTING HEIGHTS SHOWN ON DETAIL SUPERCEDE THOSE SHOWN ON PLANS. NOTIFY ARCHITECT, IMMEDIATELY, OF ANY CONFLICTS.
5. FOR ANY DEVICE MOUNTING LOCATION THAT CONFLICTS WITH A MIRROR, GENERAL CONTRACTOR SHALL COORDINATE DEVICE LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
6. PROVIDE STAINLESS STEEL COVERPLATES IN ALL APPARATUS BAYS, WORK AREAS AND KITCHEN.

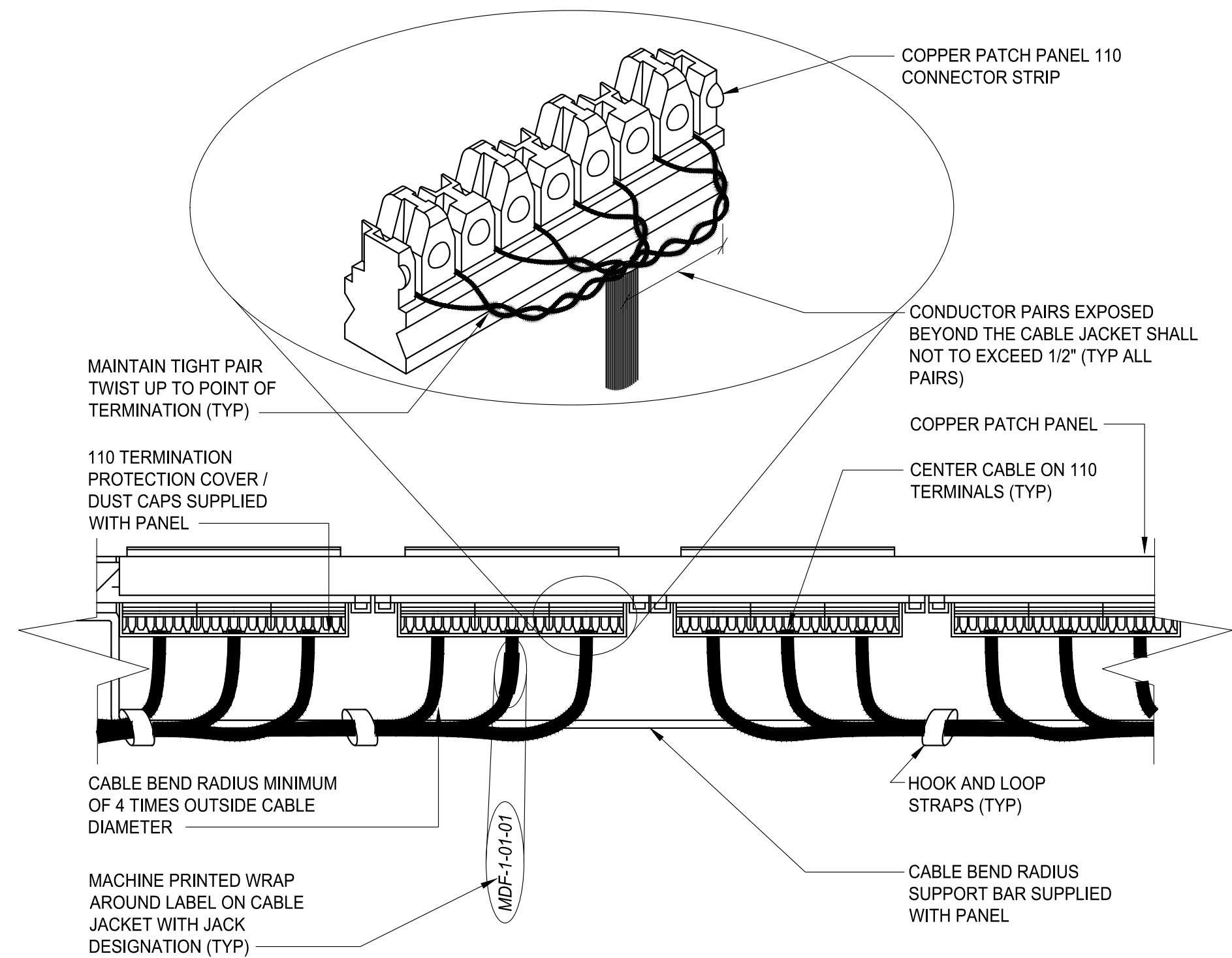
1
E8.1
DETAIL- TYPICAL DEVICE MOUNTING HEIGHTS
SCALE: NONE



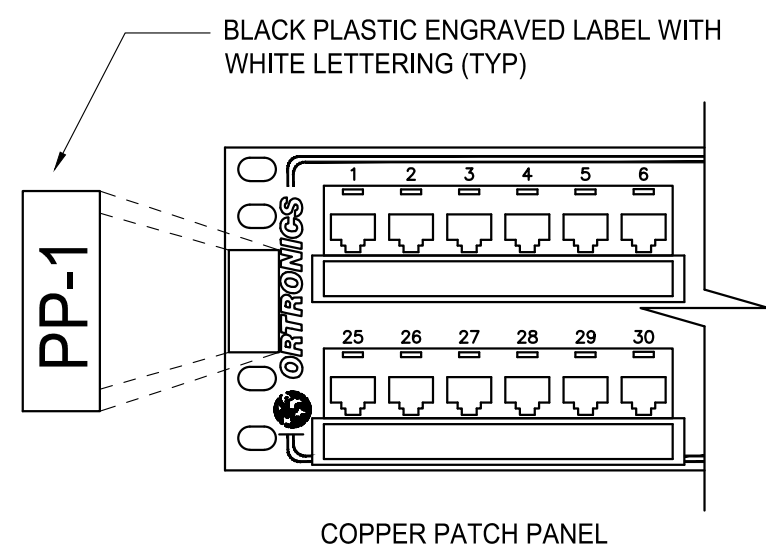
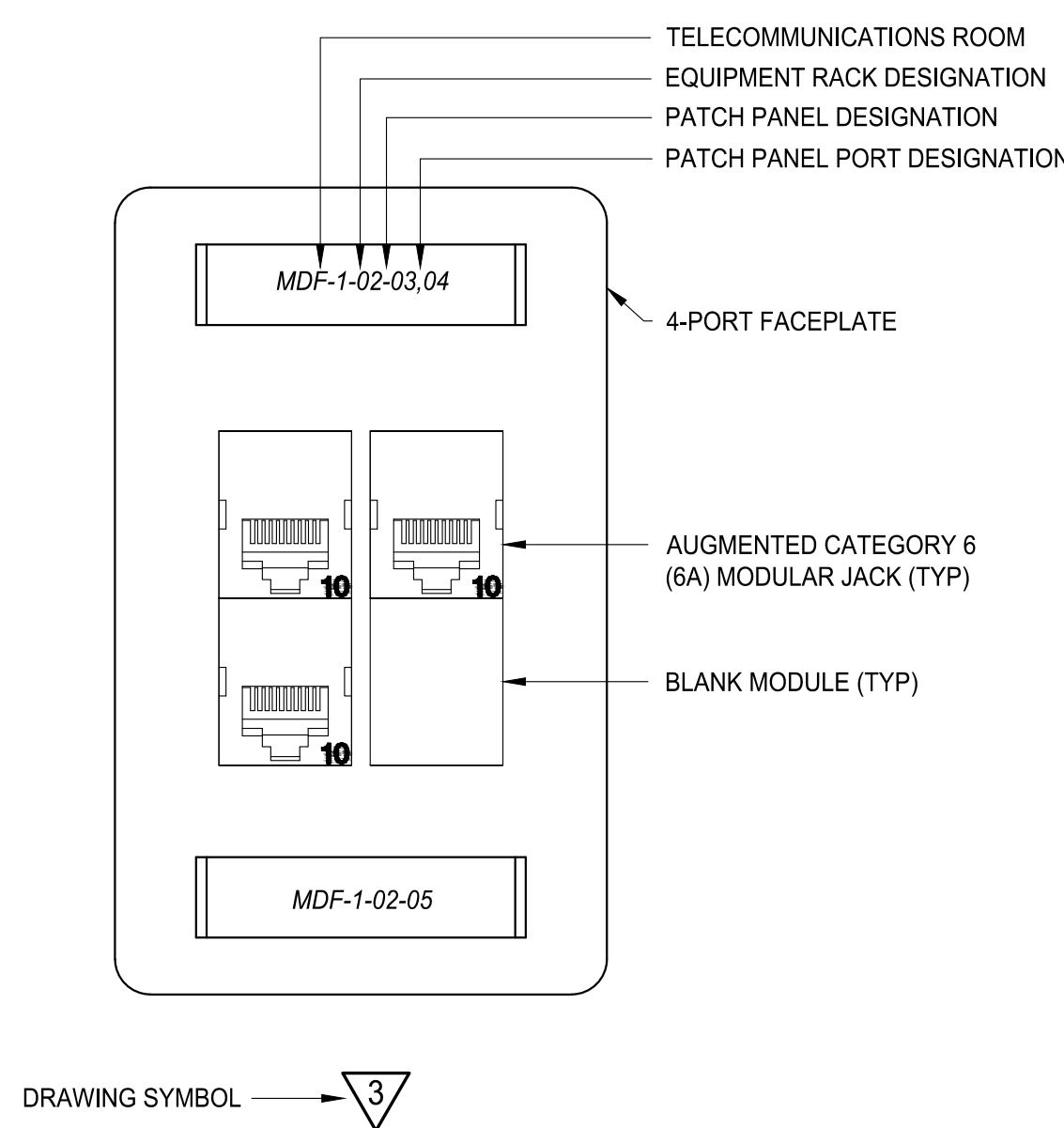
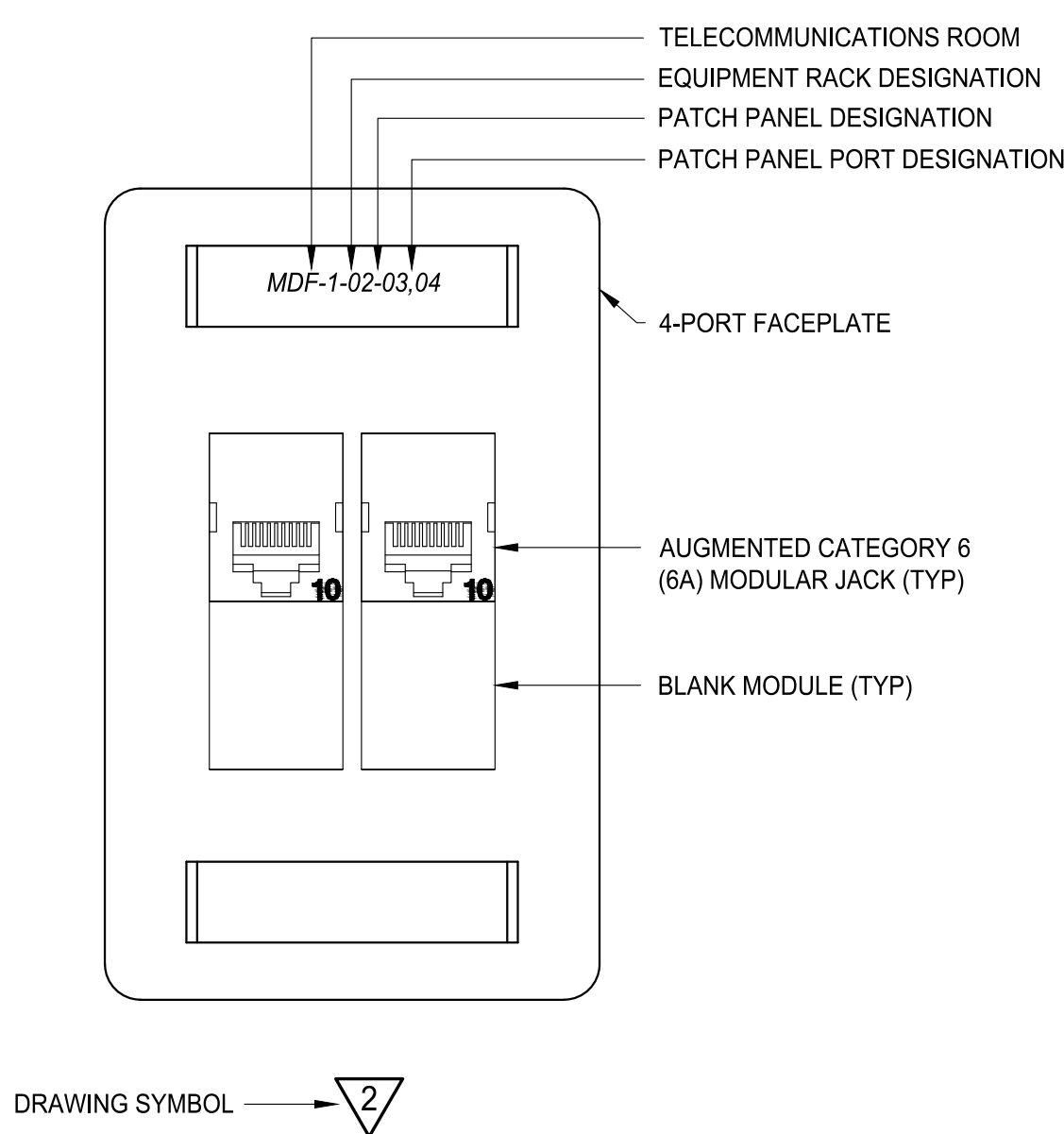
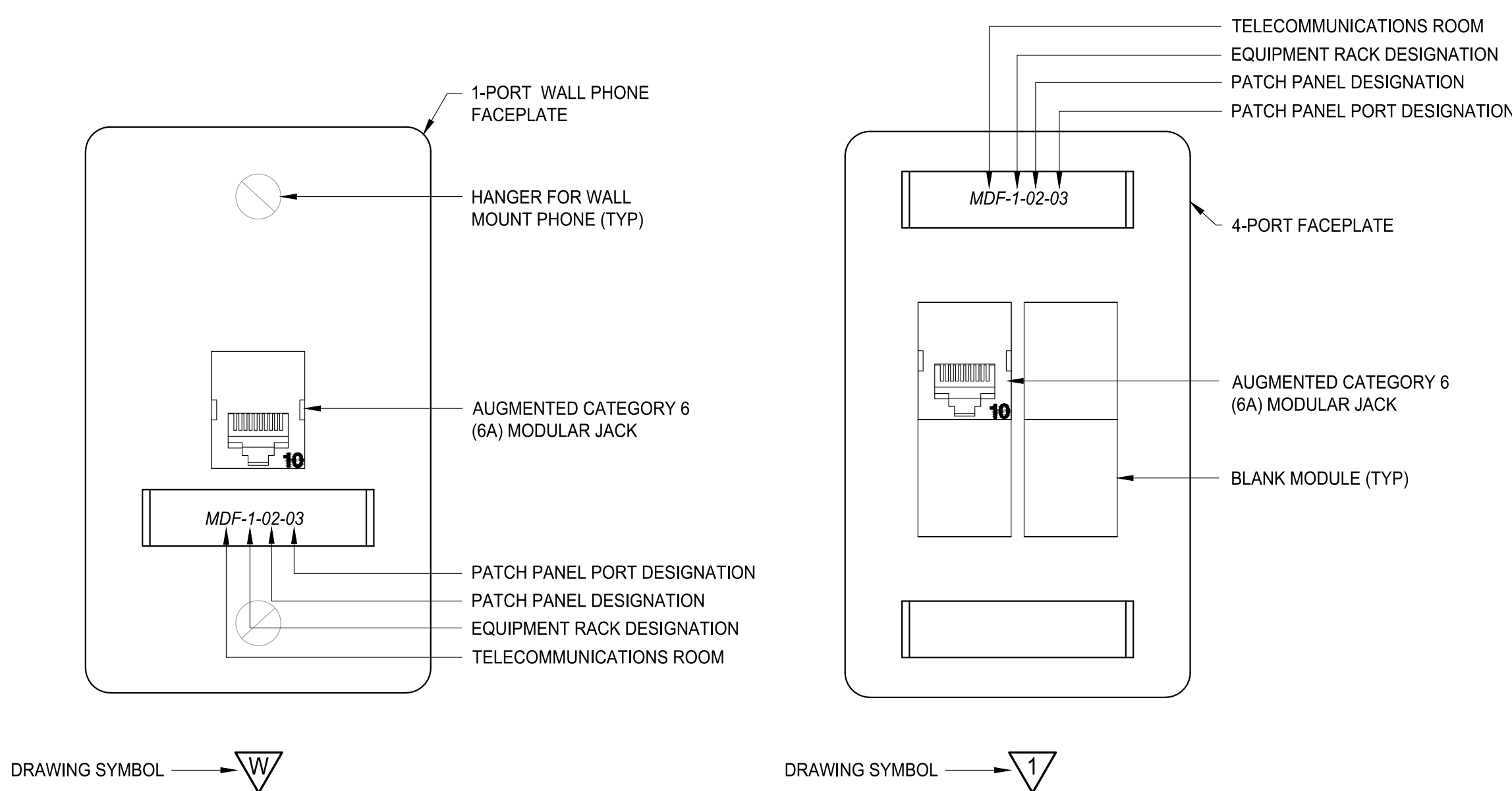
DETAIL NOTES:

1. CONDUIT SHALL BE CONTINUOUS FROM BACK BOX TO ACCESSIBLE CEILING SPACE OR AS INDICATED ON PLANS.
2. SEE TELECOMMUNICATIONS ROUGH-IN SCHEDULE FOR CONDUIT AND BACK BOX REQUIREMENTS.
3. PROVIDE BLANK MODULES TO FILL SPARE SPACES IN FACEPLATES.
4. NOT ALL PARTS SHOWN. CONTRACTOR SHALL ENSURE A COMPLETE WORKING INSTALLATION INCLUDING MISCELLANEOUS APPURTENANCES.

2
E8.1
DETAIL- TELECOMMUNICATIONS DEVICE ROUGH-IN
SCALE: NONE



3
E8.1
DETAIL- COPPER PATCH PANEL TERMINATION
SCALE: NONE



4
E8.1
DETAIL- ORGANIZATION AND LABELING
SCALE: NONE

5
E8.1
DETAIL- COPPER PATCH PANEL LABELING
SCALE: NONE

PERMIT SET

No.	Description	Date:

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Clyde Hill City Hall Office
Revisions
CITY OF CLYDE HILL
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Sheet Title:

ELECTRICAL AND TELECOM
DETAILS

Scale: NOTED

Project No.: 16-32

Date: 09/20/2022

Sheet Number:

1. SEE PANEL SCHEDULES, THIS SHEET FOR PANEL AND BRANCH CIRCUIT INFORMATION.
2. ALL PANELS SHOWN ARE EXISTING TO REMAIN. NO FEEDER CHANGES IN THE SCOPE OF THIS CONTRACT. FIELD VERIFY ALL FEEDER SIZES AND NOTIFY ENGINEER OF ANY DISCREPANCIES.



NOTES:

- 1. COPPER FEEDERS ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION.
- 2. CONDUCTOR DERATING IS BASED ON THHN/THWN CONDUCTORS WITH 75 DEGREES C RATING.
- 3. REFER TO SHEET(S) E9.1 FOR FEEDER LOCATIONS.

(E) PANEL 'L1-1'													PROJECT # : 22118		
PROJECT NAME :		CLYDEHILL CITY HALL													
LOCATION :		CLYDEHILL, WA													
		FED FROM: PANEL 'DP1'													
NOTE	OKT NO.	CIRCUIT NAME	CB SIZE	A	M	F	R	H	M	L	K	O	TOTAL	PANEL DESCRIPTION	
	1	SPARE	A	20	1									PANEL AMPS : 200	
	3	REC - STORAGE	B	20	1		0.36						0.36	FEEDER AMPS : 200	
	5	SPARE	A	20	1									L - L VOLTS : 240	
	7	REC - LOCKERS	B	20	1		0.36						0.36	L - N VOLTS : 120	
	9	SPARE	A	20	1									PHASE : 1	
	11	REC - COUNCIL CHAMBERS	B	20	1		0.72						0.72	WIRE : 3	
	13	SPARE	A	20	1									A.I.C. :	
	15	GAIRAGE DISP	B	20	1				1.50				1.50		
	17	SPARE	A	20	1									ML O	
	19	SPARE	B	20	1									MAIN CB <input checked="" type="checkbox"/>	
	21	SPARE	A	20	1									FLUSH	
	23	SPARE	B	20	1									SURFACE <input checked="" type="checkbox"/>	
	25	REC - ROOF H/V A/C	A	20	1		0.36						0.36	ISO GND	
	27	SPARE	B	20	1									FEED-THRU	
	29	SPARE	A	20	1										
	31	SPARE	B	20	1										
	33														
	35														
	37														
	39														
	41														
														LOAD SUMMARY	
	2	L1-2	A	125	2		3.96			0.86			4.82	REC KVA : 10.84	
	4	-	B	-	-		4.14		0.72				4.86	HEAT KVA : 1.50	
	6	REC - RECEPTION, COPIER	A	20	1					1.50	1.50		1.50	MOTOR KVA : 2.18	
	8	EOC	B	20	1		0.72						0.72	LIGHTING KVA : 1.50	
	10	SPARE	A	20	1									KITCHEN KVA : 1.70	
	12	FACP	B	20	1					0.20	0.20		0.20	OTHER KVA : 1.70	
	14	EXH FAN LOCKERS	A	20	1		0.11						0.11		
	16	EXH FAN LOCKERS	B	20	1		0.11						0.11	PHASE A KVA : 7.39	
	18	SPARE	A	20	1									AMPS : 61.6	
	20	SPARE	B	20	1									PHASE B KVA : 6.83	
	22	LTS - BLDG EXTERIOR	A	20	1				0.60				0.60	AMPS : 73.6	
	24	SPARE	B	20	1										
	26	SPARE	A	20	1										
	28	SPARE	B	20	1										
	30	SPARE	A	20	1										
	32	SPARE	B	20	1										
	34	SPARE	B	20	1									CONNECTED LOAD	
	36	SPARE	A	20	1									KVA : 16.22	
	38	SPARE	B	20	1									AMPS : 67.6	
	40	SPARE	A	20	1									DEMAND LOAD	
	42	SPARE	B	20	1									KVA : 16.72	
														AMPS : 69.7	
NOTES/REMARKS :			DEMAND / DIVERSITY FACTORS												
1. NO WORK ON THIS PANEL			LOAD				DESCRIPTION				DEMAND				
2.			R				RECEPTACLES - TO 10KVA				100% = 10.00				
3.							REMAINING OVER 10KVA				50% = 0.42				
			H				HEATING				100% =				
			M				MOTORS				100% =				
			LM				LARGEST MOTOR				125% = 1.88				
			L				LIGHTING				125% = 2.73				
			K				KITCHEN				100% =				
			O				OTHER				100% = 1.70				

NOTES/REMARKS :		DEMAND / DIVERSITY FACTORS	
	LOAD	DESCRIPTION	DEMAND
1.	PROVIDE NEW BREAKER AS INDICATED	R	RECEPTACLES - TO 10KVA
3.			REMAINING OVER 10KVA
		H	HEATING
		M	MOTORS
		LM	LARGEST MOTOR
		L	LIGHTING
		K	KITCHEN
		O	OTHER

NOTES/REMARKS :		DEMAND / DIVERSITY FACTORS	
	LOAD	DESCRIPTION	DEMAND
1.	PROVIDE NEW BREAKER AS INDICATED	R	RECEPTACLES - TO 10KVA
			100% = 10.00
3.			REMAINING OVER 10KVA
			50% = 2.92
		H	HEATING
			100% = 5.00
		M	MOTORS
			100% = 12.08
		LM	LARGEST MOTOR
			125% = 6.00
		L	LIGHTING
			125% = 5.78
		K	KITCHEN
			100% =
		O	OTHER
			100% = 1.50

NOTES/REMARKS :		DEMAND / DIVERSITY FACTORS			
	LOAD	DESCRIPTION	DEMAND		
1.	NO WORK ON THIS PANEL	R	RECEPTACLES - TO 10KVA	100%	= 8.10
2.			REMAINING OVER 10KVA	50%	=
3.		H	HEATING	100%	=
		M	MOTORS	100%	=
		LM	LARGEST MOTOR	125%	=
		L	LIGHTING	125%	= 1.98
		K	KITCHEN	100%	=
		O	OTHER	100%	=

[illegible]

Hill City Hall Office
Revisions
CITY OF CLYDE HILL
24th St. Clyde Hill, WA 98004

ONE LINE DIAGRAM
PANEL SCHEDULES

Date : 09/20/2022

