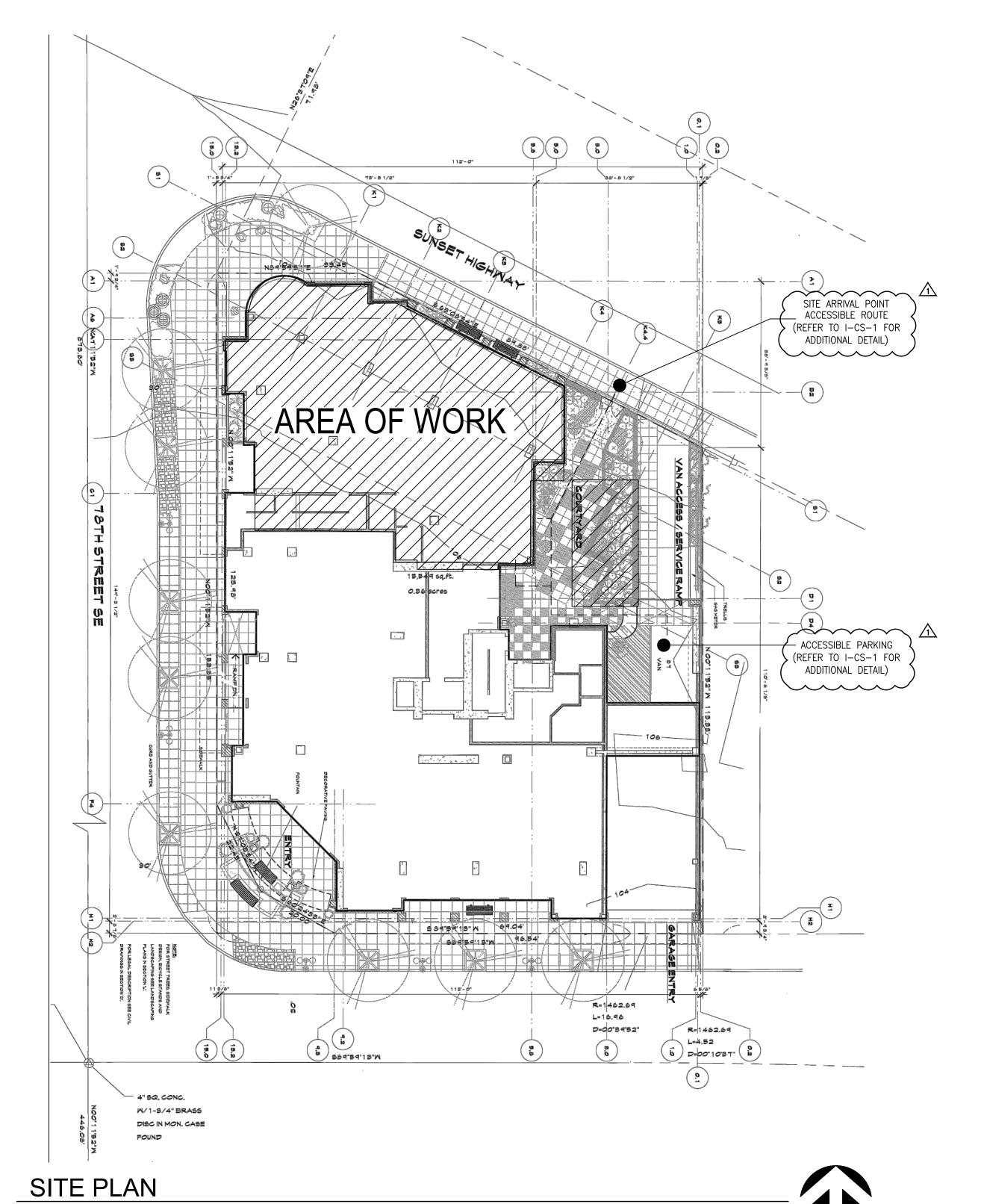
7800 Plaza - SUITE CU100

SCALE: NTS



#### **WORK UNDER SEPARATE PERMITS:**

FIRE ALARM SYSTEM

FIRE SPRINKLER SYSTEM

- DOCUMENTS FOR WORK UNDER SEPARATE PERMITS OR DEFERRED SUBMITTALS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN CHARGE (ARCHITECT/ENGINEER
- OF RECORD) FOR REVIEW PRIOR TO SUBMITTAL TO THE BUILDING OFFICIAL. NO WORK SHALL PROCEED UNTIL THE DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL AND PERMIT OBTAINED.

#### **SEE SHEET I-0.1 FOR DRAWING SHEET INDEX**

#### PROJECT DESCRIPTION:

3.497 SF TENANT IMPROVEMENT OF EXISTING SUITE CW100 ON THE GROUND FLOOR TO INCLUDE CLINIC AND AMBULATORY SURGICAL FACILITY WITH ONE CLASS 'C' AND ONE CLASS 'B' OPERATING ROOMS AND SUPPORT AREAS, MODIFICATIONS TO EXTERIOR STOREFRONT FOR NEW EXIT DOOR AND NEW MECHANICAL ROOM LOCATED ON P1. EXTERIOR MODIFICATIONS INCLUDE NEW 17 SF MED GAS CLOSET AND NEW EMERGENCY GENERATOR.

NEW AMBULATORY SURGICAL FACILITY LICENSED UNDER WAS (246-330) NON-CMS CATEGORY 1 MEDICAL GAS & ELECTRICAL SYSTEMS

IDENTIFICATION OF THE NUMBER OF CARE RECIPIENTS TO BE RENDERED INCAPABLE OF SELF-PRESERVATION AT ANY TIME (FOR DETERMINING FIRE PARTITION SEPARATION).

#### **CODE INFORMATION:**

PROJECT ADDRESS: 7800 PLAZA CONDOMINIUM 7800 SE 27TH AVENUE SUITE NUMBER: CU100 MERCER ISLAND, WA 98040

CONSTRUCTION TYPE: CONST-III-A FULLY SPRINKLERED

ZONE:

OCCUPANCY: CLASS B

TENANT SQUARE FOOTAGE: (AREA OF WORK) 3,496 SF

APPLICABLE EDITIONS OF BUILDING CODES:

2018 INTERNATIONAL BUILDING CODE (IBC), CODE WAC 51-50 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC), 301,3.2 WORK AREA COMPLIANCE METHOD WSEBC SECTION 603 ALTERATION LEVEL 2. , 11

2018 INTERNATIONAL FIRE CODE (IFC), WAC 51-54A, INCLUDING APPENDIX B & C ENERGY CODE 2018 WASHINGTON STATE ENERGY CODE

(WSEC), WAC 51-11 2018 INTERNATIONAL MECHANICAL CODE (IMC), CODE WAC 51-52 2020 NATIONAL ELECTRICAL CODE (NEC) (NFPA

> 70), 2020 WASHINGTON CITIES ELECTRICAL CODE WITH APPLICABLE RCW 19.28 & WAC

2018 UNIFORM PLUMBING CODE (UPC), WAC 51-56 & 51-57 INCL. APPENDICES Á, B, AND

ZONING CODE CITY OF MERCER ISLAND ACCESSIBILITY ICC/ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDING AND FACILITIES 2006 FGI GUIDELINES FOR DESIGN & CONSTRUCTION OF HEALTHCARE FACILITIES

3.1-OUTPATIENT FACILITIES, 3.7-OUTPATIENT SURGICAL FACILITIES, AND 3.8-OFFICE

PARKING REQUIREMENTS:

PER CITY OF MERCER ISLAND MUNICIPAL CODE 19.11.130 (ORD. 16C-06 (EXH. A). HEALTHCARE, OFFICE USES SHALL PROVIDE 4-5 PARKING SPACES PER 1000 GROSS SQUARE FEET.

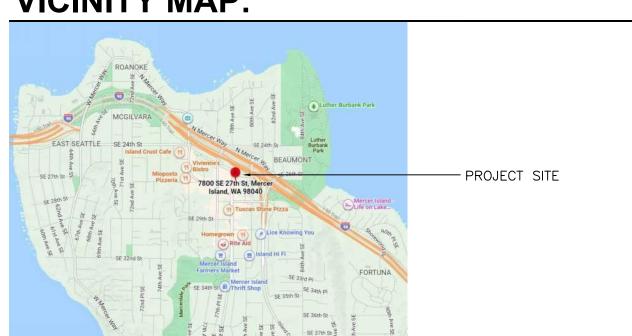
 SPRINKLERS COMPLYING WITH NFPA 13 AND FIRE ALARM SYSTEM ARE REQUIRED FOR THIS WORK PURSUANT TO IBC.

### **LEGAL DESCRIPTION:**

TAX PARCEL #: 76984-40000

THE WEST 113.50 FEET, IN WIDTH, OF LOT 1, AND THE WEST 113.50 FEET IN WIDTH OF THAT PORTION OF LOT 2. BLOCK 1. MCGILVRA'S ISLAND ADDITION, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 16 OF PLATS, PAGE 58, IN KING COUNTY, WASHINGTON, LYING NORTHERLY OF THE NORTH MARGIN OF NORTH MERCER WAY, AS ESTABLISHED BY DEED RECORDED UNDER RECORDING NUMBER

#### **VICINITY MAP:**



#### **PROJECT TEAM:**

#### **ASF CONSULTANT**

SURGERY CENTER SERVICES 2942 N, GREENFIELD RD. #105

MESA, AZ 85215 480-354-5046

PHILIP BLAIR Philip@surgerycenterservices.com Matt Krause

#### SPRINKLER DESIGN

Mkrause@surgerycenterservices.com

COSCO FIRE PROTECTION 4308 SOUTH 131ST PLACE TUKWILA, WA 98168 206-438-3360

www.coscofire.com

# FIRE ALARM

COSCO FIRE PROTECTION 4308 SOUTH 131ST PLACE

TUKWILA, WA 98168 206-438-3360

www.coscofire.com

#### **PLUMBING - MED GAS:**

ROBISON ENGINEERING INC. 19401 40TH AVENUE W, SUITE 302 LYNNWOOD, WA 98036 (206) 364-3343 X131

REED JACKSON P.E. WWW.ROBINSONENGINEERING.com

# **HVAC CONSULTANT**

AIR SYSTEMS ENGINEERING INC. 3602 S. PINE ST.

TACOMA, WA 98409 253-572-9484

NICK ROLLINS nickr@asei.ws

# **TENANT:**

DR. AJ AMADI, MD FACS 1503 2ND AVENUE W.

SEATTLE, WA 98119 206-216-4500

#### **STRUCTURAL ENGINEER:**

1601 FIFTH AVENUE SUITE 1600 SEATTLE, WA 98101 (206) 622-5822

GUS SHRYACK gus.shryack@kpff.com

# **LANDSCAPE DESIGN:**

DESIGN TWO FOUR/TWO SIX 14835 161ST COÚRT SE RENTON, WA 98059 (425) 641-9200

JASON ANDERSON jasona@design2426.com

**ARCHITECT:** 

SUITE 206

JPC ARCHITECTS, LLC 909 112TH AVE NE

BELLEVUE, WA 98004

ERIKA DEHLE - EXT. 315

erikad@jpcarchitects.com

CHRISTINE BENDA - EXT. 308

christineb@jpcarchitects.com

(425) 641-9200

**GENERAL CONTRACTOR:** HIGHMARK GENERAL CONTRACTORS, INC. 5122 OLYMPIC DRIVE GIG HARBOR, WA 98335

LIC. NO. HIGHMGC8370F Danny Belcher danny.belcher@highmark-ac.com

#### Jim Newman jim.newman@highmark-gc.com

**ELECTRICAL DESIGN:** CROSS ENGINEERING INC.

#### 923 martin luther king jr. way tacoma, WA 98405

(253) 759-0118SCOTT KELLEY

ScottL@crossengineers.com

# Amadi Aesthetics

**Plastic Surgery** Floor 1

7800 SE 27th Street Mercer Island, WA 98040

> DESIGN DRAWN ED/RB CHECKED CB 22-0394



06.15.23 PERMIT SET 07.19.23 DOH SUBMITTAL

08.23.23 PRICING SET

↑ 09.29.23 PERMIT CORRECTIONS

URISDICTION STAMP

COVERSHEET & SITE PLAN

I-0.0

# PC ARCHITECT

**ARCH DRAWING INDEX** 

COVERSHEET & SITE PLAN

GENERAL REQUIREMENTS & NOTES

DEMOLITION NOTES AND LEGEND

FLOOR PLAN NOTES AND LEGEND

RCP LIGHTING NOTES AND LEGEND

FINISH PLAN & FINISH SCHEDULE

REFLECTED CEILING PLAN

DIMENSION PLAN NOTES AND LEGEND

FLOOR PLAN VAC. RM. AND COURTYARD

POWER, PLUMBING AND EQUIPMENT PLAN

POWER, PLUMBING AND EQUIPMENT NOTES AND LEGEND

GENERAL NOTES & SYMBOLS, LICENSE PLAN & RESTRICTION PLAN

DRAWING SHEET INDEX

CODE SUMMARY

DEMOLITION PLAN

DIMENSION PLAN

FLOOR PLAN

FINISH PLAN

EXIT PLAN

I-0.0 I-0.1

1-0.2

1-0.3

I-CS-0

I-CS-1

I-01.0

1-01.1

I-02.0

1-02.1

1-03.0

1 - 03.1

1-03.2

1-04.0

1 - 04.1

1-05.0

1 - 05.1

I-06.0 I-06.1 909 112th Avenue NE

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I-0.1

#### **ABBREVIATIONS: GENERAL NOTES:**

ACOUSTICAL CEILING TILE

APPROXIMATE

BUILDING

BLOCK

BLOCKING

BUILT UP

CABINET

CEILING

COLUMN

CONCRETE

CONSTRUCTION

CONTINUOUS

CERAMIC TILE

DEMOLITION

DIMENSION

DRINKING FOUNTAIN DIAMETER

CORRIDOR

CARPET

CENTER

DFTAII

DOOR

EACH

FI EVATION

ELECTRICAL

**ELEVATOR** 

**EQUIPMENT** 

**ESTIMATE** 

**EXISTING** 

**EXPANSION** 

FACTORY FINISH

FULL HEIGHT

**FLUORESCENT** 

**FURNISH BY OWNER** 

FACE OF STUD(S) FACE OF CONCRÉTE

FACE OF FINISH

FURRED/FURRING

GLASS/GLAZING

HOLLOW CORE

HANDICAPPED

HOLLOW METAL

HEATING VENTILATING

AIR CONDITIONING

HORIZONTAL HOUR

INSULATION

HEADER

HEIGHT

JOINT

KITCHEN

LAVATORÝ

MAXIMUM

METAL

LEFT HAND

MECHANICAL

MEZZANINE

MOUNTED

MULLION

NORTH

MANUFACTURE(R)

MISCELLANEOUS

NOT IN CONTRAC

OUTSIDE DIAMETER OPPOSITE HAND

PLASTIC LAMINAT

NOT TO SCALE

ON CENTER

OPENING

PANEL

PARTITION

**RADIUS** 

RESILIENT BASE

REFERENCE

REFRIGERATOR

REINFORCING REQUIRED

REVISION

RIGHT HAND ROOM

SOLID CORE

SEALANT

SECTION

SHEET

SIMII AR

SQUARE STAINLESS STEEL

STORAGE

STRUCTURAL

SUSPENDED

TELEPHONE

TEMPERED TENANT FURNISHED

THICK(NESS)

THRESHOLD

TELEVISION

UNFINISHED

**TYPICAL** 

VENEER VERTICAL

VESTIBULE

WEST/WIDE

WITH

WOOD WITHOUT

WEIGHT

& TENANT INSTALLED

UNLESS NOTED OTHERWISE

VINYL COMPOSITION TILE

VINYL WALL COVERING

TEMP

THRESH

UNO

VCT

VEN VERT VESTI

EXISTING — PLANTER 26—≹H

EXISTING PLANTER 26-2"H TO BE REMOVED

**RESTRICTION PLAN** 

SCALE: NTS

SPECIFICATION

ROUGH OPENING

PAIR

HARDWARE

GENERAL CONTRACTOR

GYPSUM WALL BOARD

FOOT/FFFT

INSTALL BY CONTRACTOR

FLOOR

FIRE EXTINGUISHER CABINET

**EQUAL** 

DRAWING DRAWER

CLEAR(ANCE

BUILDING STANDARD

AUTHORITIES HAVING JURISDICTION ALTERNATE

REFER TO BASIC BUILDING SPECIFICATIONS, REQUIREMENTS AND STANDARDS FOR EXISTING SHELL AND CORE CONSTRUCTION. ALL WORK IS TO BE COMPATIBLE WITH EXISTING

ALL WORK SHALL CONFORM TO APPLICABLE CURRENT FEDERAL, STATE AND LOCAL CODES. THE CONTRACTOR IS TO PROVIDE FOR ALL REQUIRED NOTIFICATION OF AND COORDINATION WITH CITY AND STATE AGENCIES, AND PROVIDE REQUIRED PERMITS. ALL TESTS AND INSPECTIONS ASSOCIATED WITH OBTAINING APPROVALS TO PROCEED WITH AND COMPLETE THE WORK SHALL BE PAID FOR BY THE CONTRACTOR.

- THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS. EQUIPMENT AND TRANSPORTATION NECESSARY OR REASONABLY INFERABLE AS BEING NECESSARY FOR THE EXECUTION OF THE WORK. BY SUBMITTING A PROPOSAL, THE CONTRACTOR REPRESENTS THAT THOROUGH EXAMINATION OF THE SITE AND ALL EXISTING CONDITIONS AND LIMITATIONS HAVE BEEN MADE AND THAT THE CONTRACT DOCUMENTS HAVE BEEN EXAMINED IN COMPLETE DETAIL, AND THAT IT IS DETERMINED BEYOND DOUBT THAT THE DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS ARE SUFFICIENT, ADEQUATE AND SATISFACTORY FOR CONSTRUCTION OF THE WORK. WHERE MINOR ADJUSTMENTS TO THE WORK ARE NECESSARY FOR THE PURPOSES OF FABRICATION AND INSTALLATION OF ITEMS, OR RESOLUTIONS OF CONFLICTS BETWEEN ITEMS, WITHIN THE INTENT OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL MAKE SUCH ADJUSTMENTS AT NO ADDED EXPENSE TO THE OWNER. WHERE SUCH MINOR ADJUSTMENTS AFFECT FUNCTIONAL OR AESTHETIC DESIGN OF THE WORK, THEY SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL COORDINATE ALL OPERATIONS WITH THE OWNER, INCLUDING AREA FOR WORK, MATERIALS STORAGE, AND ACCESS TO AND FROM THE WORK, SPECIAL CONDITIONS OR NOISY WORK, TIMING OF WORK AND INTERRUPTION OF MECHANICAL AND ELECTRICAL SERVICES. NOISY OR DISRUPTIVE WORK SHALL BE SCHEDULED AT LEAST ONE (1) WEEK IN ADVANCE OF THE TIME WORK IS TO COMMENCE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HIGHEST STANDARD OF WORKMANSHIP IN GENERAL AND WITH SUCH STANDARDS AS ARE SPECIFIED.
- CONTRACTOR SHALL ADHERE TO ALL BUILDING STANDARDS. ANY CHANGES TO SAME SHALL BE SUBMITTED TO ARCHITECT IN WRITING FOR APPROVAL.
- CONTRACTOR SHALL SUBMIT SAMPLES OF ALL FINISHES OF SUCH SIZE AND NUMBER THAT THEY REPRESENT A REASONABLE DISTRIBUTION OF COLOR RANGES AND PATTERN PRIOR TO INSTALLATION FOR ARCHITECT'S APPROVAL. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND PRODUCT DATA FOR ARCHITECT'S APPROVAL ON ALL SPECIAL ITEMS REQUIRING CUSTOM FABRICATION. (SHALL INCLUDE RATED FIRE DOORS AND HARDWARE).
- CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE AND NOTIFY ARCHITECT OF ANY DISCREPANCIES. CONTRACTOR IS NOT TO SCALE OFF DRAWINGS.
- CONTRACTOR SHALL PROVIDE 18-GAUGE SHEET METAL BACKING IN PARTITIONS FOR ALL WALL-MOUNTED FIXTURES AND DEVICES UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- ALL FLOORS SHOULD BE LEVEL AND NOT VARY MORE THAN 1/4" IN 10'-0". THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONDITIONS THAT DO NOT MEET THIS STANDARD.
- ALL MATERIALS INDICATED TO MATCH EXISTING SHALL DO SO WITH RESPECT TO SIZE, SHAPE, COLOR, TEXTURE, PATTERN, QUALITY AND METHOD OF INSTALLATION INSOFAR AS PRACTICABLE AND SHALL BE APPROVED BY THE ARCHITECT BEFORE USE.
- 12. ALL FIREPROOFING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO MATCH ORIGINAL FIRE PROTECTION LEVELS. (OBTAIN REQUIRED APPROVALS AND TESTING).
- THE FLOORS MAY BE OCCUPIED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALI PERSONNEL, PASSERSBY OR VISITORS TO THE SITE FROM HARM AND INJURY. BARRIERS SHALL BE INSTALLED AS REQUIRED TO PROTECT EQUIPMENT INSTALLED DURING CONSTRUCTION. CAREFULLY MAINTAIN AND PROTECT MONUMENTS, BENCH MARKS AND THEIR REFERENCE POINT FROM BEING DESTROYED OR DISTURBED; REPLACE AS REQUIRED.
- EXISTING WORK DAMAGED AS A RESULT OF WORK DONE UNDER THIS CONTRACT SHALL BE REPAIRED TO ORIGINAL CONDITION AND FINISHED TO MATCH ADJACENT FINISHES, SUBJECT TO ARCHITECT'S APPROVAL, AND AT NO ADDITIONAL COST TO OWNER. ALL REPLACEMENT MATERIALS REQUIRED TO MATCH EXISTING MATERIALS SHALL DO SO WITH RESPECT TO TYPE, PATTERN, TEXTURE, SIZE, SHAPE, COLOR AND METHOD OF INSTALLATION INSOFAR AS PRACTICABLE, AND SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- ALL EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT AND SERVICES DISRUPTED OR REMOVED DURING CONSTRUCTION SHALL BE RESTORED AND REPLACED UNLESS NOTED OTHERWISE. FIRE/LIFE SAFETY SYSTEMS TO BE MAINTAINED DURING CONSTRUCTION.
- INSTALLATION OF MECHANICAL, ELECTRICAL AND STRUCTURAL SYSTEMS WILL REQUIRE OPENING OF SOME EXISTING WALLS, CEILINGS OR FLOOR CAVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF THESE OPENINGS TO MATCH EXISTING, EXCEPT WHERE NOTED OTHERWISE. FILL ALL HOLES AND VOIDS IN FLOORS, WALLS AND CEILINGS WHICH RESULT FROM INSTALLATION OF WORK, AND REMOVAL OF EXISTING MATERIALS AND EQUIPMENT REQUIRED BY THIS CONTRACT. PATCHED AREAS SHALL MATCH THE MATERIALS, FINISHES, AND LEVELS ADJACENT, OR SHALL BE PUT IN THE PROPER CONDITION TO RECEIVE THE FINISH INDICATED.
- OPENINGS REQUIRED FOR NEW WORK THAT PENETRATES EXISTING STRUCTURE SHALL BE COORDINATED WITH OWNER PRIOR TO COMMENCING THE WORK. ANY OPENING OVER 2" IN DIAMETER SHALL BE REVIEWED AND APPROVED BY OWNER. THROUGH CONCRETE SLABS OR WALLS, OR MASONRY WALLS, ALL ROUND HOLES SHALL BE CORE DRILLED WITH A DIAMOND DRILL AND ALL RECTANGULAR OPENINGS SHALL BE CUT WITH A DIAMOND SAW. IN NO CASE SHALL ANY STRUCTURAL MEMBER BE CUT. USE CARBIDE-TIPPED DRILLS FOR GYPSUM WALLBOARD PARTITIONS. KEEP OVERCUTTING TO A MINIMUM. MAINTAIN CONTINUITY AND INTEGRITY OF FIRE SEPARATION AT ALL TIMES. GROUT AROUND CONDUITS PASSING THROUGH CONCRETE WALLS AND FLOORS AND MASONRY WALLS. MAKE PATCHES WITH NEAT, TRIMMED EDGES; MATCH ADJACENT EXISTING WORK.
- CONTRACTOR SHALL PROVIDE FLOOR LEVELING AS MAY BE REQUIRED AT SLIDING DOORS, RELITES WITHOUT BASE, CABINET WORK, AND OTHER LOCATIONS REQUIRING LEVEL SUBSTRATE. FEATHER CHANGES IN ELEVATION OVER SUFFICIENT AREA TO LIMIT TRANSITION SLOPE TO 1/8"
- MATERIALS, ARTICLES, DEVICES AND PRODUCTS ARE SPECIFIED IN THE DOCUMENTS BY LISTING ACCEPTABLE MANUFACTURERS OR PRODUCTS, BY REQUIRING COMPLIANCE WITH REFERENCED STANDARDS, OR BY PERFORMANCE SPECIFICATIONS. FOR ITEMS SPECIFIED BY NAME, SELECT ANY PRODUCT NAMED. FOR THOSE SPECIFIED BY REFERENCE STANDARDS OR BY PERFORMANCE SPECIFICATIONS SELECT ANY PRODUCT MEETING OR EXCEEDING SPECIFIED CRITERIA. FOR APPROVAL OF AN ITEM NOT SPECIFIED, SUBMIT REQUIRED SUBMITTALS, PROVIDING COMPLETE BACK-UP INFORMATION FOR PURPOSES OF EVALUATION. WHERE BUILDING STANDARD ITEMS ARE CALLED FOR, NO SUBSTITUTE WILL BE ACCEPTED.
- CONTRACTOR SHALL PROVIDE FOR ALL WORK REQUIRED TO MAINTAIN COMPLIANCE WITH LOCAL FIRE CODE. PROVIDE FOR ALL REQUIRED SHOP DRAWINGS AND APPROVALS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING FIRE ALARM SYSTEM AUDIBILITY.
- MECHANICAL AND ELECTRICAL FIXTURES, OUTLETS, ETC., WHEN SHOWN ON THE ARCHITECTURAL DRAWINGS, ARE FOR LOCATION INFORMATION ONLY. MECHANICAL AND ELECTRICAL TO BE DESIGNED BY OTHERS. ALL CIRCUITING COORDINATION TO BE BY OTHERS.
- CONTRACTOR IS TO PROVIDE DRAWINGS FOR ARCHITECT'S APPROVAL SHOWING LOCATIONS OF ALL HVAC THERMOSTATS, GRILLES AND DIFFUSERS, FIRE AND SMOKE DETECTION DEVICES INCLUDING SPRINKLERS, SMOKE DETECTORS, FIRE EXTINGUISHERS AND HOSE CABINETS, PLUMBING AND PLUMBING EQUIPMENT.
- ANY CHANGE IN LIGHT FIXTURE PLACEMENT DUE TO INTERFERENCE OF MECHANICAL OR STRUCTURAL COMPONENTS MUST BE APPROVED BY THE ARCHITECT.
- 24. ALL PERMITS INCLUDING FIRE, MECHANICAL, AND ELECTRICAL TO BE FILED SEPARATELY.

- 25. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED, SPACKLED AND SANDED SMOOTH WITH NO VISIBLE JOINTS TO A LEVEL 4 FINISH UNLESS OTHERWISE NOTED. PATCH AND REPAIR SURFACES TO MATCH ADJACENT OR ADJOINING SURFACES WHERE REQUIRED. ALL SURFACES SHALL BE
- 6. MODIFY EXISTING SUBSTRATE AS REQUIRED TO RECEIVE NEW FLOORING MATERIALS, THUS PREVENTING NOTICEABLE LUMPS OR DEPRESSIONS.
- 27. ALL WORK SHALL BE ERECTED AND INSTALLED PLUMB, LEVEL, SQUARE AND TRUE.
- $^{28}$ . REFER TO MILLWORK SHOP DRAWINGS FOR SPECIFIC DETAILS OF COORDINATION BETWEEN DRYWALL/MILLWORK CONDITIONS.
- ALL MILLWORK TO BE FASTENED TO THE PARTITION. PROVIDE NON-COMBUSTIBLE BLOCKING FOR ALL MILLWORK NOT SUPPORTED BY FLOOR OR ABOVE 4'-0" HT. ALL CONCEALED LUMBER & BLOCKING TO BE FIRE TREATED.
- 30. ALL GLASS SHALL BE CLEAR TEMPERED GLASS, UNLESS OTHERWISE NOTED. GLAZING TONG MARKS SHALL NOT BE VISIBLE. CLEAN AND POLISH ALL GLASS PRIOR TO PROJECT DELIVERY.
- 31. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR: HVAC, CARPET SEAMING, LIGHTING, CASEWORK.
- 32. MOISTURE TEST REQUIRED FOR ALL ON GRADE SLAB CONDITIONS DURING THE CONSTRUCTION ESTIMATING/BUDGETING PROCESS THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FROM THE BUILDING OWNER DOCUMENTATION AS TO THE VAPOR EMISSIONS RATE (MOISTURE TEST) FOR ALL "ON GRADE SLAB CONDITIONS". THIS INFORMATION SHOULD THEN BE IMMEDIATELY SHARED BETWEEN THE ARCHITECT, THE ARCHITECTS' SELECTED FLOORING REPRESENTATIVE(S), AND FLOORING SUB-CONTRACTOR FOR REVIEW AND APPROVAL OF APPLICABLE MATERIALS AND ANCILLARY INSTALLATION/FINISH PRODUCTS. IF NO MOISTURE TEST CAN BE FURNISHED OR IF FINDING ARE IN QUESTION THE GENERAL CONTRACTOR SHALL PERFORM THE FOLLOWING TESTS:
- A. PROVIDE (3) CALCIUM CHLORIDE MOISTURE TESTS FOR THE FIRST THOUSAND SQUARE FEET AND (1 TEST FOR EVERY ONE THOUSAND SQUARE FEET THEREAFTER AT ALL FLOORS WITHIN SCOPE OF WORK. THE CALCIUM CHLORIDE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM F 1869 "STANDARD TEST METHOD" FOR MEASURING VAPOR EMISSIONS RATE OF CONCRETE SUN-FLOOR USING ANHYDROUS CALCIUM CHLORIDE. PROVIDE A WRITTEN REPORT OF FINDINGS TO THE ARCHITECT AS NOTED ABOVE.
- B. PROVIDE A PH PENCIL TEST AT ALL FLOORS WITHIN SCOPE OF WORK. PROVIDE A WRITTEN REPOR' OF FINDINGS TO THE ARCHITECT AS NOTED ABOVE.

IF REQUIRED BY THE CALCIUM CHLORIDE TEST, A WATERPROOF MEMBRANE SHALL BE APPLIED TO ALL FLOORS WITHIN THE SCOPE OF WORK. THE WATERPROOF MEMBRANE(S) SHALL BE APPROPRIATED FOR EACH FINISH FLOORING APPLICATION AS SPECIFIED BY THE SPECIFIC FLOORING MANUFACTURER VIA THE ARCHITECT. A LICENSED INSTALLER SHALL BE UTILIZED FOR INSTALLATION/APPLICATION OF EACH SPECIFIC MEMBRANE (AS APPLICABLE TO THE FINISH FLOORING PRODUCT) AND A WRITTEN WARRANTY SHALL BE PROVIDED DOCUMENTING STRICT CONFORMANCE TO THE SPECIFIED MANUFACTURES INSTALLATION REQUIREMENTS TO ENSURE AND UPHOLD ALL PERFORMANCE AND LIFE CYCLE GUARANTEES.

33. CONCRETE SLAB ON GRADE REPAIR - MINOR SCOPE (100 SQUARE FEET OR LESS)

WHERE CONCRETE SLAB ON GRADE INFILL AND TRENCHING MUST OCCUR; CONDUCT THE APPROPRIATE UNDER SLAB INVESTIGATION (VIA SONO-GRAPH AND/OR X-RAY) TO LOCATE EXISTING UTILITIES OR OTHER OBSTRUCTIONS THAT SHOULD NOT BE DAMAGED. SAW CUT SLAB AT SUBJECT AREA(S) AND PULL BACK THE EXISTING VAPOR BARRIER (IF PRESENT) AND PROTECT FOR FUTURE RE-INSTALLATION. EXECUTE THE NECESSARY UNDER SLAB WORK (INCLUDING EXCAVATION), BACKFILL AND RE-COMPACT THE SUBJECT AREA WITH THE PREVIOUSLY HELD MATERIALS (IF THE EXCAVATED MATERIALS ARE NOT SUITABLE FOR RE-INSTALLATION, DISCARD AND PROVIDE NEW FREE DRAINING GRANULAR MATERIAL). RE-COMPACT FILL SOIL TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY (MDD) OBTAINED IN GENERAL ACCORDANCE WITH THE ASTM D 1557 TEST PROCEDURE. RE-INSTALL THE EXISTING VAPOR BARRIER AND BIND SEAMS WITH MINIMUM 3" WIDE PRESSURE SENSITIVE TAPE TO ENSURE AN AIR/MOISTURE RESISTANT BOND. ATTACH NEW INFILL TO EXISTING CONCRETE SLAB WITH 18 INCH LONG #4 REBAR AT 24 INCHES ON CENTER EMBEDDED 8 INCHES INTO THE EXISTING CONCRETE SLAB WITH HILTI HIT-HY-200 ADHESIVE (OR SIMPSON SET ADHESIVE). REINFORCEMENT SHALL BE INSTALLED PER ADHESIVE MANUFACTURER'S RECOMMENDATIONS. PROVIDE W2 X W2 X 6 X 6 WELDED WIRE FABRIC WITHIN SUBJECT AREA(S), INFILL SLAB TO MATCH THICKNESS OF ADJACENT SURFACE(S) (BUT NOT BE LESS THAN FOUR INCHES THICK) AND #4 DOWELS SHALL BE CENTERED IN SLAB. THE CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI WITH A MAXIMUM WATER CEMENT RATION OF 0.58 AND IS TO BE PLACED LEVEL WITH ADJACENT SURFACES. LET CURE AND PROVIDE MOISTURE TESTING AS SPECIFIED ABOVE.

IF SCOPE OF WORK INCLUDES STRUCTURAL ELEVATED SLABS CONSULT A STRUCTURAL ENGINEER. REFER TO STRUCTURAL PLANS, IF APPLICABLE, FOR ADDITIONAL SPECIFICATIONS AND

- 34. CLEAN, REPAIR ANY EXISTING PERIMETER WINDOW COVERINGS AS REQUIRED TO BE IN A FULLY FUNCTIONING & OPERATIONAL MANNER.
- 35. COORDINATE WITH SUB-CONTRACTORS THE LOCATIONS OF ELECTRICAL AND VOICE/DATA OUTLETS, PLUMBING AND OTHER DEVICES WITH LAYOUT AND DESIGN OF CUSTOM CASEWORK.
- CASEWORK SHALL CONFORM TO A.W.I. CURRENT STANDARDS.
- EGRESS LIGHTING SHALL BE DESIGNED BY A LICENSED ELECTRICAL ENGINEER BASED ON FINAL FLOOR PLAN(S) AND THE MOST CURRENT (IN FORCE) ISSUE OF THE IBC, IEC AND LOCAL CODES/ORDINANCES. THE ENGINEER MAY USE THE ARCHITECTS EGRESS MAPS (COMMON PATH OF TRAVEL/EXIT TRAVEL DISTANCE) AS STARTING POINT FOR A BASIS OF DESIGN. HOWEVER, IT SHALL REMAIN THE SOLE RESPONSIBILITY OF THE ENGINEER TO COMPLETE A SCOPE OF WORK THAT ADDRESSES ALL EGRESS LIGHTING I.E.; ROOMS, SPECIALIZED SPACES, PATHWAYS, ETC. PER THE AFOREMENTIONED CODES. FINAL EGRESS LIGHTING QUANTITIES AND LOCATIONS SHALL BE DETERMINED BY BUILDING AND FIRE INSPECTOR'S FIELD PLACEMENT DETERMINATION.
- ALL WALL AND CEILING PENETRATIONS NEED TO BE CAULKED FOR A TIGHT SEAL PER FGI

# Plastic Surgery

Amadi Aesthetics

7800 SE 27th Street Mercer Island, WA 98040

> ED/RB CHECKED CB 22-0394



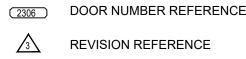
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GENERAL NOTE & SYMBOLS, LICENSE PLAN & **RESTRICTION PLAN** 

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**SYMBOL LEGEND:** 

2306 ROOM NUMBER REFERENCE



REVISION REFERENCE



INTERIOR ELEVATION SYMBOL

(REFER TO SHEET/KEY NOTES)

DETAIL REFERENCE BUBBLE

JOB NORTH

REFERENCE KEY

ADA FRONT APPROACH, PUSH SIDE CLEARANCE PER ICC/ANSI A117.1

\*12" MIN WITH CLOSER AND LATCH

ADA FRONT APPROACH, PULL SIDE CLEARANCE PER ICC/ANSI

ADA HINGE APPROACH, PUSH SIDE CLEARANCE PER ICC/ANSI

\*\*12" MIN WITH CLOSER AND

ADA LATCH APPROACH, PUSH

SIDE CLEARANCE PER ICC/ANSI

\*48" MIN WITH CLOSER AND LATCH

ADA LATCH APPROACH, PULL SIDE

CLEARANCE PER ICC/ANSI A117.1

\*54" MIN WITH CLOSER AND LATCH

ADA FRONT APPROACH, SLIDING DOOR CLEARANCE PER ICC/ANSI

ADA POCKET APPROACH, SLIDING

A117.1 SECTION 404

DOOR CLEARANCE PER

ICC/ANSI A117.1 SECTION 404

\*48" MIN WITH CLOSER AND LATCH

A117.1 SECTION 404

A117.1 SECTION 404

A117.1 SECTION 404

SECTION 404

LATCH

SECTION 404

48"MIN

22"MIN

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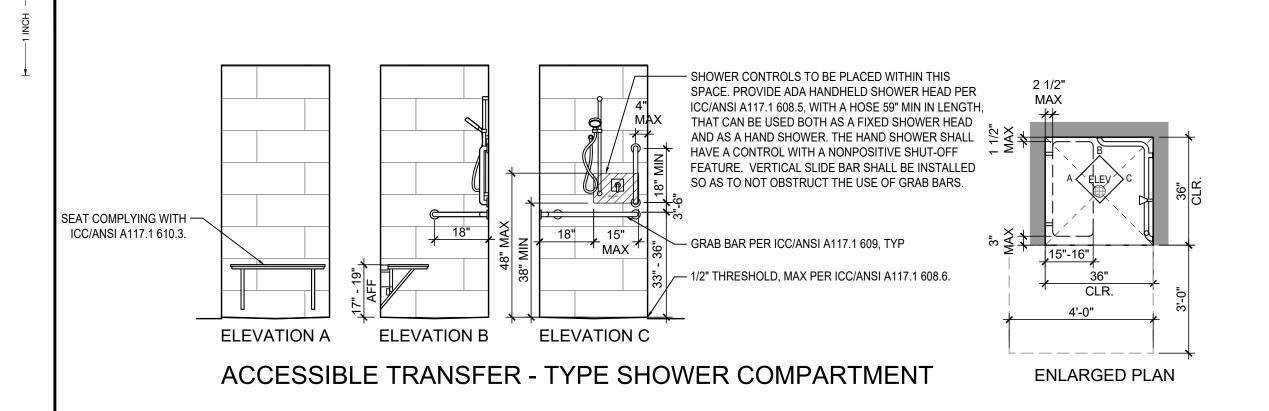
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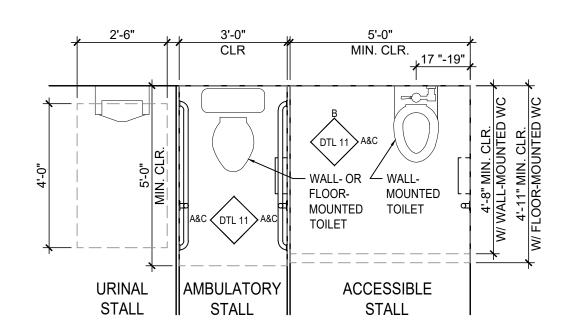
**GENERAL** REQUIREMENTS & NOTES

I-0.3

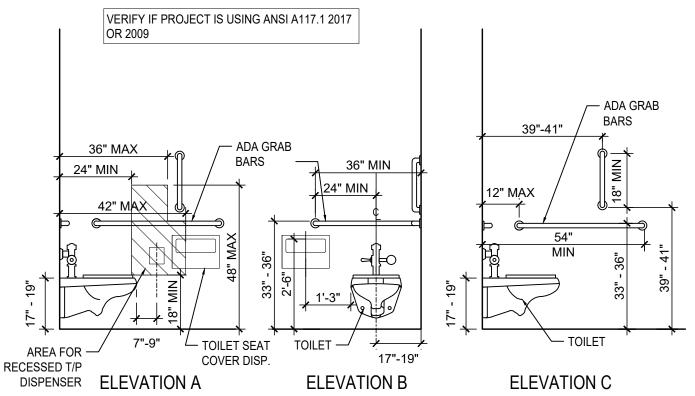
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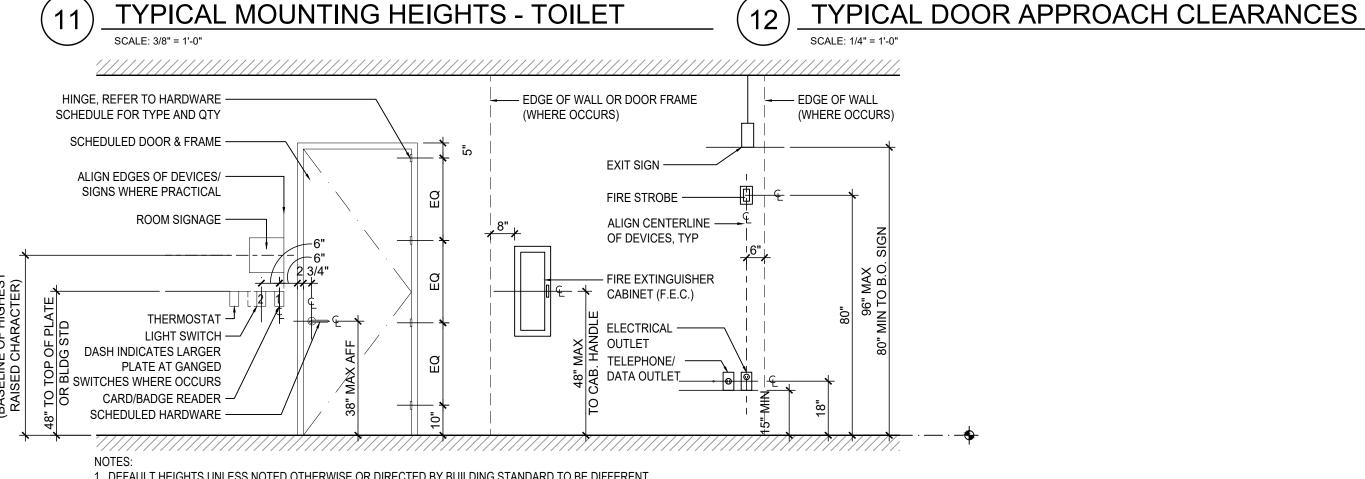
TYPICAL SHOWER PLAN AND ELEVATION - TRANSFER-TYPE SCALE: 3/8" = 1'-0"



TYPICAL TOILET COMPARTMENT CLEARANCES SCALE: 3/8" = 1'-0"

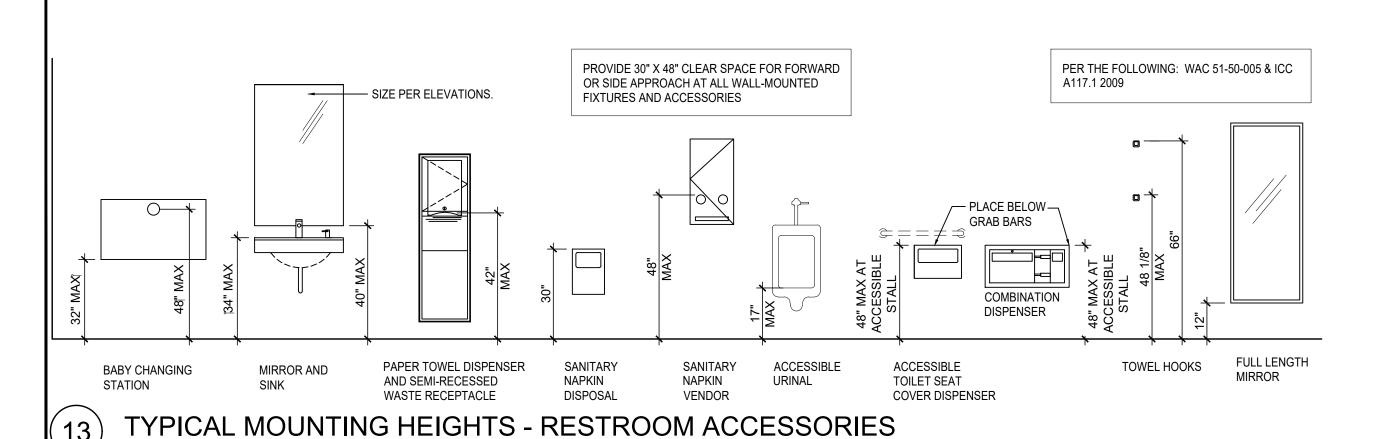


TYPICAL MOUNTING HEIGHTS - TOILET



1. DEFAULT HEIGHTS UNLESS NOTED OTHERWISE OR DIRECTED BY BUILDING STANDARD TO BE DIFFERENT 2. TYP. 4'-0" TO HIGHEST PORTION OF ANY OPERABLE PART OF EQUIPMENT (A117.1 309) 3. DEVICES TO BE PLACED STARTING IN POSITION 1. WHERE SCHEDULED, CARDREADER TO BE PLACED IN POSITION 1.

TYPICAL MOUNTING HEIGHTS - DEVICES AND EQUIPMENT SCALE: 3/8" = 1'-0"



SCALE: 3/8" = 1'-0"

Code Calculations:

COMMON PATH OF EGRESS TRAVEL \_ - \_\_\_ EXIT ACCESS TRAVEL DISTANCE

XX OCCUPANT LOAD THROUGH OPENING

EXIT PROTECTED EXIT

----ROOM USE RM NAME 101 - ROOM NUMBER B 200 SF ROOM AREA 1:150 1.3 OL OCCUPANT LOAD OCCUPANT LOAD FACTOR

EXIT SIGN F.E.C. FIRE EXTINGUISHER

CR— CARD READER

DIAMOND QUANTITY INDICATES

HOURLY RATING.

REQUIRED EGRESS WIDTH: 1.1. BUILDING IS FULLY SPRINKLERED (W/ QR HEADS) AND HAS EMERGENCY ALARM SYSTEM, THEREFORE, PER IBC 1005.3.1 &

1005.3.2 EXCEPTION: 1.2. STAIRS: 0.2"/OCCUPANT

Code Notes:

BATTERY BACK-UP PER IBC 1008.3.

BUILDING OFFICIAL DISCRETION.

OF ANY LOCATION.

OTHER COMPONENTS: 0.15"/OCCUPANT

EGRESS WIDTHS REQUIRED PER IBC 1005.3.1 & 1005.3.2: STAIRS: 0.3"/OCCUPANT 1.6. OTHER COMPONENTS: 0.2"/OCCUPANT

MAXIMUM OCCUPANT LOAD LIMITED BY STAIRWAYS: 43" (TOTAL STAIR WIDTH) / 0.3 = 143 MAXIMUM OCCUPANTS

MAXIMUM OCCUPANT LOAD LIMITED BY OTHER EGRESS COMPONENTS: 36" (TOTAL WIDTH) / 0.2 = 180 MAXIMUM OCCUPANTS

4. (2) MINIMUM EXITS REQUIRED PER IBC 1006.2.1/1006.3.2. (3) EXITS HAVE BEEN PROVIDED.

"COMMON PATH OF EGRESS TRAVEL" FOR B OCCUPANCY TO BE 100'-0" OR LESS AS ALLOWED PER IBC TABLE 1006.2.1.

6. "EXIT ACCESS TRAVEL DISTANCE" FOR B OCCUPANCY TO BE 300'-0" THROUGHOUT BLDG, AS ALLOWED PER IBC TABLE 1017.2. 6.1. EXIT TRAVEL DISTANCE SHALL BE MEASURED TO EXIT DISCHARGE OR EXIT STAIR, BUT CONTINUE DOWN A EXIT ACCESS STAIR.

7. DEAD-END CORRIDORS TO BE LESS THAN 50'-0" PER IBC 1020.4.

MEANS OF EGRESS ILLUMINATION: THE MEANS OF EGRESS (EXIT

PATHWAY) AND THE EXIT DISCHARGE DOOR SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING IS OCCUPIED AT AN ILLUMINATION LEVEL NOT

LESS THAN 1-FOOT CANDLE (10 LUX) AT THE WALKING SURFACE

EGRESS LIGHTING SHALL BE DESIGNED BY A LICENSED ELECTRICAL

JURISDICTION. THE ENGINEER MAY REFERENCE THIS CODE SUMMARY

LIGHTING I.E.; ROOMS, SPECIALIZED SPACES, PATHWAYS, ETC. PER THE

AFOREMENTIONED CODES. FINAL EGRESS LIGHTING DESIGN SUBJECT TO

EGRESS DOORS WITH CARD READERS SHALL BE FAIL-SAFE TO REMAIN

NON-EGRESS DOOR WITH CARD READERS SHALL BE FAIL SECURE TO

REMAIN LOCKED DURING AN EVENT/EMERGENCY. DOOR CAN STILL BE

FIRE EXTINGUISHERS MUST BE WITHIN A 75' MAXIMUM TRAVEL DISTANCE

UNLOCKED DURING AN EVENT/EMERGENCY PER IBC 1010.1.9.

OPENED WITH A KEY DURING SUCH EVENT/EMERGENCY.

SHEET. HOWEVER, IT SHALL REMAIN THE SOLE RESPONSIBILITY OF THE ENGINEER TO COMPLETE A SCOPE OF WORK ADDRESSING ALL EGRESS

ENGINEER ACCORDING TO APPLICABLE CODES/ORDINANCES IN

LEVEL PER IBC 1008. LIGHTING MUST BE PROVIDED WITH EMERGENCY

# Amadi Aesthetics

Plastic Surgery

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### MEDICAL GAS TANK SUMMARY:

TANK CONTENT	# OF TANKS	SIZE OF TANK (CU.FT)	TOTAL (CU.FT)	TOTAL ALLOWABLE PER IBC 307.1 (CU.FT)
OXYGEN	6	244	1,464	
COMP. AIR	4	244	976	
TOTAL			2,440	LESS THAN 3,000
			•	

#### SUITE CU100 OCCUPANT LOAD:

REFER TO IBO	TABLE 1004.5 FOR	R LOAD FAC	TOR		
Occupancy	Room Name	Room Number	Square Footage	Load Factor	Occupant Load
В	SURGERY	ASF06	277	1/100	3
В	SURGERY	ASF07	387	¥100	4
В	STAFF BREAK	117	121	1/15	8
В	WAITING	100	441	1/15	29
В	STORAGE	ASF12	103	1/300	0.3
В	GENERAL OFFICE	N/A	2168	¥ <sub>50</sub>	14
TOTAL			3,497		59

Plumbing Calculation: (PER IBC TABLE 2902.1)

	OCCUI	OCCUPANCY WATER CLOSETS			LAVATORIES			DRINKING FOUNTAINS		SERVICE SINK		
	TYPE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	FEMALE	RATIO	COUNTS	COUNTS
	В	59	1 PER 25 FOR THE FIRST 50, THEN 1 PER 50	1.2	1 PER 25 FOR THE FIRST 50, THEN 1 PER 50	1.2	1 PER 40 FOR THE FIRST 80, THEN 1 PER 80	.7	.7	1 PER 150 FOR THE FIRST 150, THEN 1 PER 500	.393	1
	REQUIRE	O TOTALS		2		2		1	1		1	
	PROVIDE	) TOTALS		4		3		3	2	(NOTE #3)	NOTE #1	
	<u>"</u>	<u> </u>	· ·		· ·		· ·	<u>"</u>		· · · · · · · · · · · · · · · · · · ·	<u> </u>	

1. DRINKING FOUNTAINS ARE NOT REQUIRED WITHIN INDIVIDUAL TENANT SPACES IF LOCATED ON AN ACCESSIBLE ROUTE WITHIN 500 FEET OF THE MOST REMOTE LOCATION WITHIN THE TENANT SPACE PER WA. STATE AMENDMENT 2902.5. ACCESSIBLE DRINKING FOUNTAIN LOCATED ADJACENT TO COMMON AREA RESTROOMS



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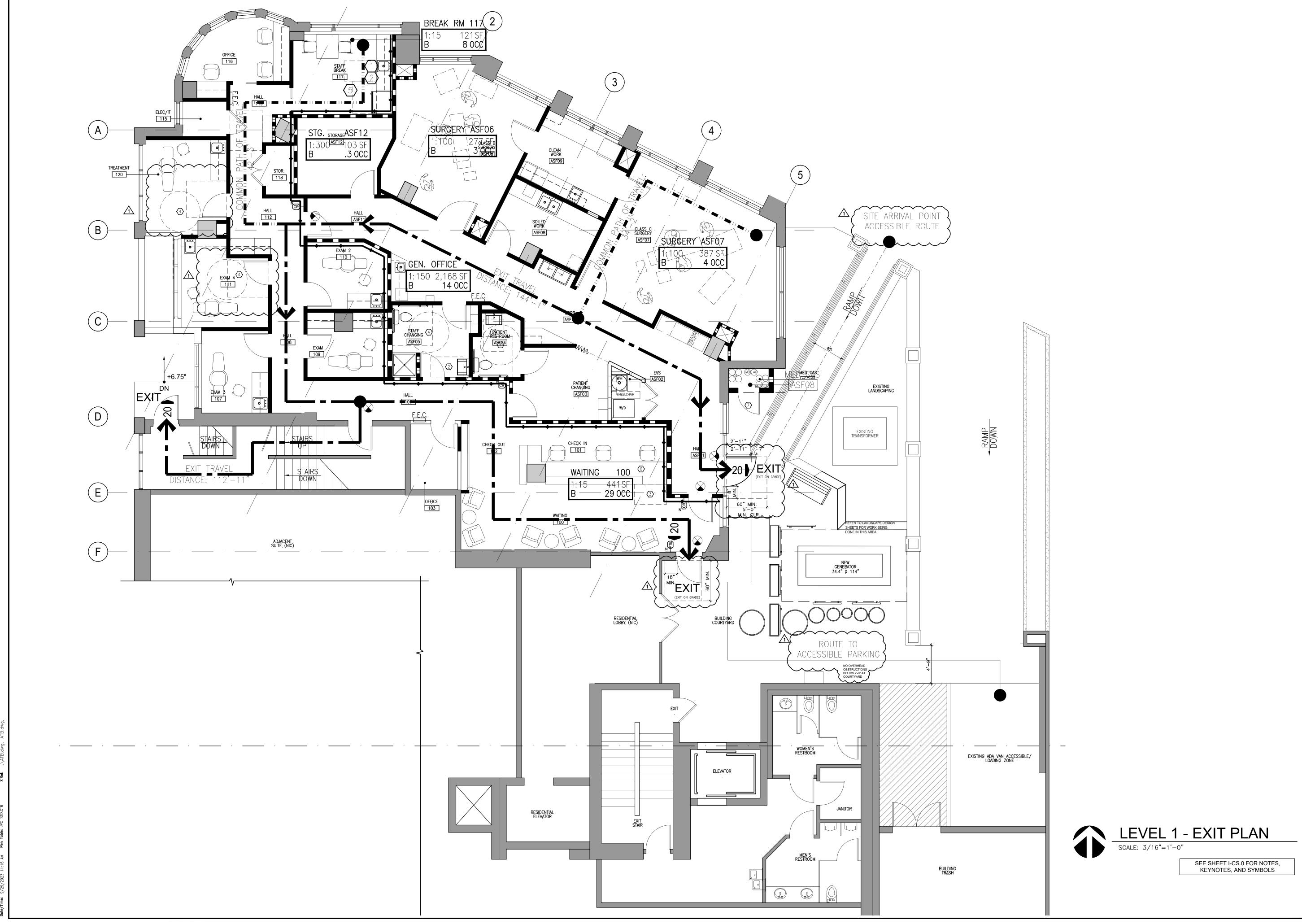
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1 09.29.23 PERMIT CORRECTIONS

JURISDICTION S

**EXIT PLAN** 

I-CS-1



# **DEMOLITION PLAN SHEET NOTES:**

**DEMOLITION PLAN KEY NOTES:** 

EXISTING SHELL & CORE WALLS TO REMAIN

E = EXISTING TO REMAIN D = DEMOLISH

DEMOLITION NOTES

I-01.0

ED/RB CB 22-0394



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**DEMOLITION PLAN** 

Mercer Island, WA 98040

F.E.C. SEMI-RECESSED FIRE EXTINGUISHER AND CABINET - TYPE II-10B. COLOR: WHITE. ♦ WALL TAG

**DIMENSION PLAN SHEET NOTES:** 

DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS GOVERN. ALL PARTITION

**DIMENSION PLAN KEY NOTES:** 

(1) NOT USED

DIMENSION PLAN NOTES AND LEGEND

I-02.0

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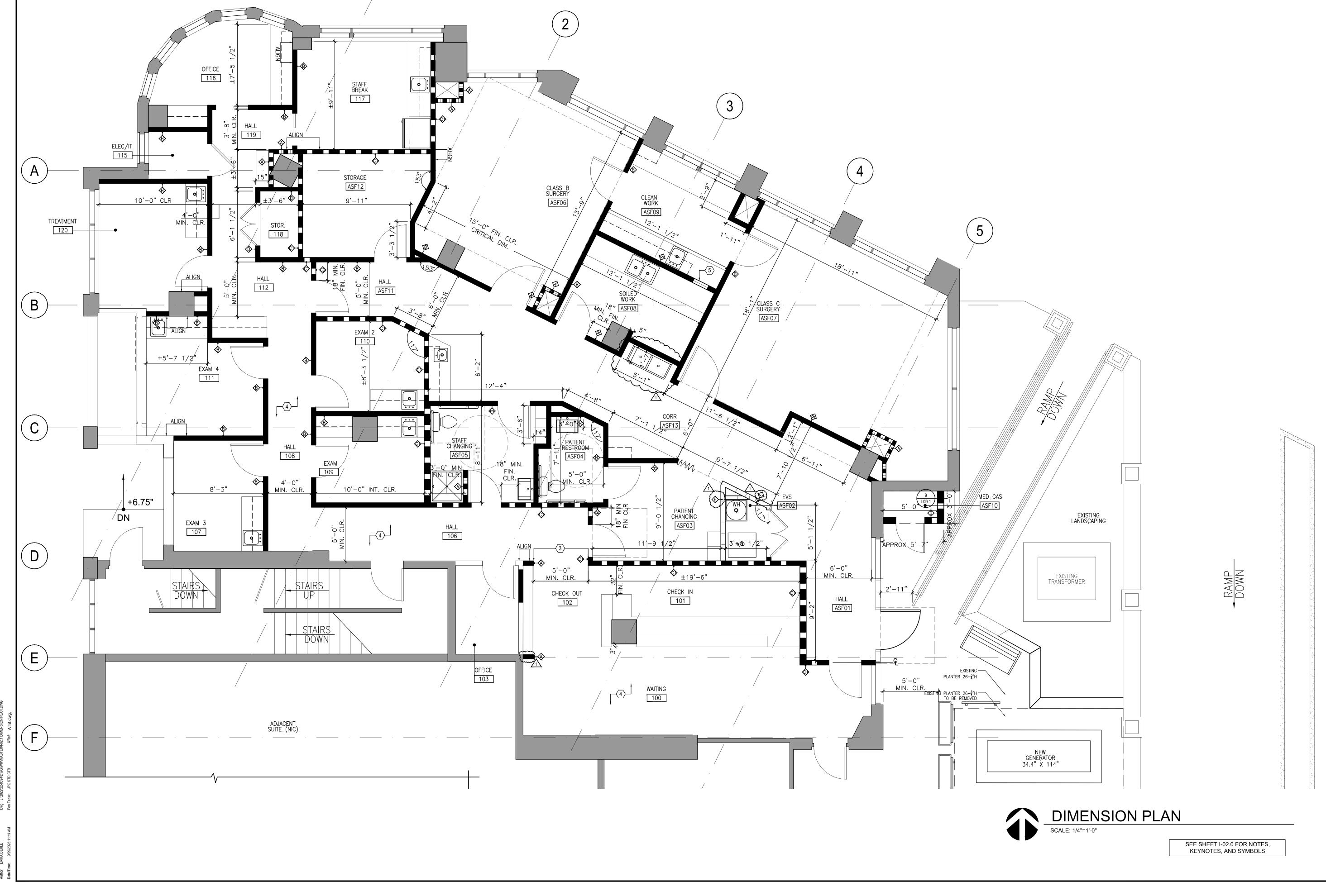
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**DIMENSION PLAN** 

1-02.1

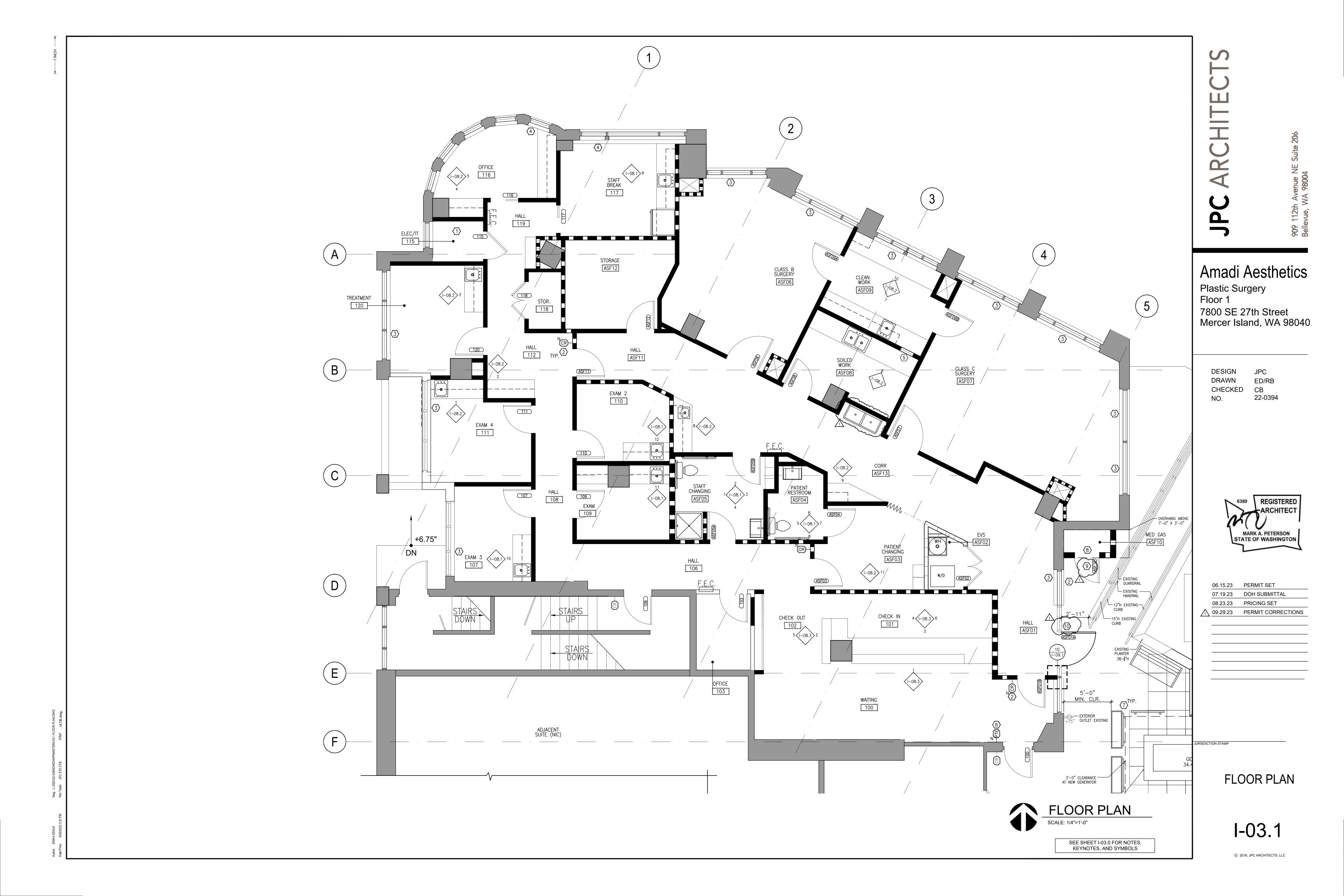


#### FLOOR PLAN SHEET NOTES:

Mercer Island, WA 98040

FLOOR PLAN NOTES

I-03.0



Plastic Surgery Floor 1

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FLOOR PLAN VAC. RM. AND COURTYARD

I-03.2

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VAC. PUMP RM.

VACUUM PUMP
VERIFY

VACUUM PUMP
VERIFY
VERIF



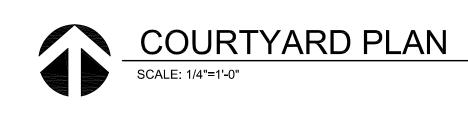
#### DSR23-010

RAMP DOWN

EXISTING ADA VAN ACCESSIBLE/ LOADING ZONE OBJECTIVES, IN ORDER TO OBTAIN THE VISION SET FOURTH IN MICC19.010 ANY STORAGE, SERVICE AND TRUCK LOADING AREA, UTILITY STRUCTURES, ELEVATOR AND MECHANICAL EQUIPMENT ON THE GROUND OR ROOF SHALL BE SCREENED FROM PUBLIC VIEW IN SUCH A MANNER THAT THEY ARE NOT VISIBLE FROM PUBLIC STREETS, SIDEWALK OR RESIDENTIAL AREA LOCATED ON THE HILLSIDE SURROUNDING TOWN CENTER.

#### RESPONSE

THE NEW GENERATOR WILL BE SURROUNDED BY NEW POTS AND PLANTERS WITH TREES AND LANDSCAPE MATERIAL THAT WILL SHIELD THE GENERATOR FROM VIEW. THE EXISTING MAPLE TREE WILL BE REPLACED WITH ONE OF SIMILAR SIZE AND ADDITIONAL LANDSCAPING WILL PROVIDED AT RAISED PLANTER. COURTYARD IS BELOW STREET LEVEL AND IS SURROUNDED BY COURTYARD WALLS, FENCING AND EXISTING LANDSCAPING THAT WILL ADD TO THE SCREENING OF THE AREA FROM PUBLIC VIEW. SEE LANDSCAPE DRAWINGS FOR MORE DETAIL.



CHEÇK ÎN

100

5'-10"

5'-10"

5'-10" /

RESIDENTIAL LOBBY. (NIC) 5'-10"

EXISTING FENCE LINE

EXISTING TRANSFORMER

11'-6"

NEW GENERATOR 34.4" X 114"

WOMEN'S RESTROOM

ELEVATOR

REFER TO SHEET I-03.0 FOR NOTES, KEYNOTES AND SYMBOLS.

REFLECTED CEILING PLAN SHEET NOTES:

#### GENERAL 1. TH

THE REFLECTED CEILING PLAN INDICATES THE LOCATION OF CEILING HEIGHTS, LIGHT TYPES, LIGHT FIXTURES, AND ASSOCIATED ITEMS.

- 2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. ALL CEILING AND LIGHTING LOCATIONS SHALL BE AS SHOWN ON REFLECTED CEILING AND LIGHTING PLAN. IN CASE OF CONFLICT, NOTIFY ARCHITECT. ANY DIMENSIONS THAT ARE UNSPECIFIED OR UNCLEAR ARE TO BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO PROCEEDING.
- 3. ALL SPECIFIC INFORMATION CONCERNING INSTALLATION FOR VARIOUS ABOVE-CEILING ELEMENTS ARE TO BE DESIGN-BUILD BY CONTRACTOR, DOCUMENTED BY OTHERS AND PERMITTED SEPARATELY.
- COORDINATE THE WORK OF ALL TRADES INVOLVED IN THE CEILING. WORK TO ENSURE CLEARANCES FOR FIXTURES, DUCTS, PIPING, CEILING SUSPENSION SYSTEM, ETC., NECESSARY TO MAINTAIN THE FINISHED CEILING HEIGHTS INDICATED ON ARCHITECT'S DRAWINGS.
- 5. NOTIFY ARCHITECT OF ANY CONFLICTS OF LIGHT FIXTURE LOCATIONS WITH MAIN RUNNERS, DUCTS, STRUCTURES, HVAC, AND/OR (E)CONDUIT, PRIOR TO FRAMING FOR LIGHTS. ANY DISCREPANCIES BETWEEN ARCHITECT'S CEILING GRID LOCATION & ACTUAL FIELD CONDITIONS ARE TO BE CLARIFIED WITH THE ARCHITECT PRIOR TO FRAMING.
- SPEAKER LOCATIONS ARE SHOWN ON REFLECTED CEILING PLAN TO DENOTE GENERAL LOCATIONS FINAL LOCATIONS TO BE VERIFIED BY A/V CONSULTANT AND/OR DOCTOR. VOLUME LOCATIONS SHOWN ON PLAN-CHANGES IN LOCATION ARE TO BE VERIFIED BY ARCHITECT. SPEAKERS AND VOLUME CONTROLS TO BE PROVIDED BY CLIENT'S AUDIO VENDOR. GENERAL CONTRACTOR TO PROVIDE MUD-RINGS WITH PULL STRING IN WALL.

#### LDING SYSTEMS: ONE-HOUR RATED MED GAS CLOSET ASF10:

PROVIDE MECHANICAL VENTILATION SYSTEM FOR MED GAS STORAGE AS REQUIRED PER 2018 IMC 502.8.2 AND 502.9.1, AND 2018 IFC 5306.2.1 FOR A ONE-HOUR RATED EXTERIOR ROOM OR. THIS AND OVERALL MECHANICAL SCOPE UNDER SEPARATE PERMIT.

- 7.2. PROVIDE AND INSTALL AN AUTOMATIC FIRE SPRINKLER HEAD AT MED GAS CLOSET <u>ASF10</u> AS REQUIRED PER 2018 IFC 5306.2 AND 2018 IBC 427.2 FOR A ONE-HOUR FIRE RATED EXTERIOR ROOM
- 8. ALL SMOKE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH IMC/IBC OR SUPERCEDING CODE. ALL FIRE DAMPERS SHALL BE INSTALLED IN ACCORDANCE WITH IMC/IBC OR SUPERCEDING CODE.
- 9. VENTILATION REQUIRED FOR MECH ROOM <u>ASF14</u>. VERIFY ALL REQUIREMENTS WITH EQUIPMENT PROVIDER.
- 10. POSITIVE AIR PRESSURE REQUIRED FOR SURGERY ROOMS ASF06 /ASF07. ALL ISOLATION ROOMS TO HAVE NEGATIVE AIR PRESSURE AND BE VENTED EXTERNALLY.
- 11. MODIFY EXISTING SYSTEMS AS REQUIRED BY SCOPE OF NEW WORK, THE BUILDING CODES IN EFFECT, AND DESIGN/CONSTRUCTION STANDARDS FOR THE SUBJECT BUILDING INCLUDING, BUT NOT LIMITED TO HVAC, PLUMBING, ELECTRICAL, COMMUNICATIONS, CONVEYANCE, FIRE/SMOKE PROTECTION, AND FIRE ALARM SYSTEMS.
- 12. ARCHITECTURAL FEATURES AND LIGHTING LOCATIONS TAKE PRECEDENCE OVER OTHER ELEMENTS AND SYSTEMS. COORDINATE THE WORK OF ALL TRADES TO ENSURE CLEARANCES FOR EQUIPMENT, FIXTURES, DUCTS, PIPING, AND ETC. AS NECESSARY TO MAINTAIN THE FINISHED CEILING AND LIGHTING HEIGHTS AND LAYOUTS INDICATED IN CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT OF ANY CONFICTS WITH ARCHITECTURAL ELEMENTS OR LIGHTING, AND COORDINATE WITH ARCHITECT AS REQUIRED. FAILURE TO COORDINATE CONFLICTS WILL NOT WAIVE RESPONSIBILITY TO DELIVERATE
- 13. SUBMIT GRILLE, THERMOSTAT, LIGHTING AND OTHER FIXTURE AND ELEMENT LAYOUTS TO THE ARCHITECT FOR REVIEW PRIOR TO ORDER PLACEMENT.
- 14. PROVIDE SOUND BOOTS AT ALL FULL HEIGHT ENCLOSED ROOMS AT RETURN AIR GRILLES, AND VAV'S LOCATED IN PRIVATE OFFICES AND TREATMENT/EXAM/SURGERY

#### <u> IGHT FIXTURES</u>:

FINAL EXIT LIGHTING LOCATIONS SHALL BE DETERMINED BY BUILDING AND FIRE INSPECTOR'S FIELD PLACEMENT DETERMINATION. CONTRACTOR TO NOTIFY ARCHITECT OF FINAL LOCATIONS.

PROTECT EXPOSED LIGHT FIXTURES AND OTHER ELEMENTS FROM DAMAGE AND SOILING DURING CONSTRUCTION. REFER TO MANUFACTURER RECOMMENDATIONS FOR PROTECTION DURING CONSTRUCTION.

#### GHTING CONTROLS:

LIGHTING CONTROL SYSTEM SHALL MEET ALL REQUIREMENTS FOR DAYLIGHTING AND ENERGY SAVINGS AS REQUIRED BY LOCAL CODES.

- 18. PROVIDE 0-10V IN-ROOM/AREA WALL SWITCH DIMMING CONTROLS IN <u>ALL AREAS</u> EXCEPT THE FOLLOWING: RESTROOMS, ELEC/IT, STORAGE, MECH AND EVS.
- 19. ALL SWITCHES AND DIMMERS SHALL BE LOCATED 46" ABOVE FINISHED FLOOR TO CENTER OF SWITCH U.N.O. MULTIPLE SWITCHES AT ONE LOCATION SHALL BE GANGED TOGETHER AND FINISHED WITH ONE COVER PLATE U.N.O.
- ALL ENCLOSED ROOMS AND FIXTURE TYPES SHALL BE SWITCHED SEPARATELY.
  CONFIRM CONTROL SYSTEM CONFIGURATION WITH OWNER, TENANT AND ARCHITECT.
- 1. EGRESS LIGHTING SHALL BE DESIGNED BY A LICENSED ELECTRICAL ENGINEER BASED ON FINAL APPROVED LIGHTING PLANS AND THE CURRENT CODES IN EFFECT. IT SHALL REMAIN THE SOLE RESPONSIBILITY OF THE ENGINEER TO COMPLETE A SCOPE OF WORK THAT FULFILLS ALL EGRESS LIGHTING REQUIREMENTS. FINAL EGRESS LIGHTING QUANTITIES AND LOCATIONS ARE SUBJECT TO APPROVAL BY BUILDING AND FIRE INSPECTOR'S FIELD PLACEMENT DETERMINATION.

#### EILINGS:

PERIMETER CEILING ANGLE, WHERE OCCURS, SHALL BE INSTALLED TIGHT TO VERTICAL SURFACES, FREE FROM CURVES, BREAKS OR OTHER IRREGULARITIES AND FINISHED TO MATCH CEILING FINISH.

- 23. ALL FIELD-CUT ACOUSTIC CEILING TILES TO BE FINISHED ON CUT EDGE TO MATCH FACE OF CEILING TILE.
- 24. ALL SOFFITS AND CEILING HEIGHTS ARE DIMENSIONED FROM TOP OF FINISHED FLOOR TO BOTTOM OF FINISHED GYPSUM BOARD OR CEILING TILE AND SHALL ALLOW FOR THICKNESS OF ALL FLOOR FINISHES.
- 25. LIGHT FIXTURES, NEW SPRINKLER HEADS AND OTHER CEILING ELEMENTS SHALL BE CENTERED IN THE 2'X2' SECTION OF INDIVIDUAL CEILING TILES U.N.O. (EXIST. SPRINKLERS TO REMAIN UNLESS CONFLICTING WITH NEW ELEMENTS).
- ALL ACCESS PANELS AT GWB TO BE 24" X 24" (VERIFY) FRAMELESS WITH A GWB AND PAINTED FINISH. COORDINATE WITH LIGHTING LOCATIONS.

# CARCH

Amadi Aesthetics

Plastic Surgery Floor 1

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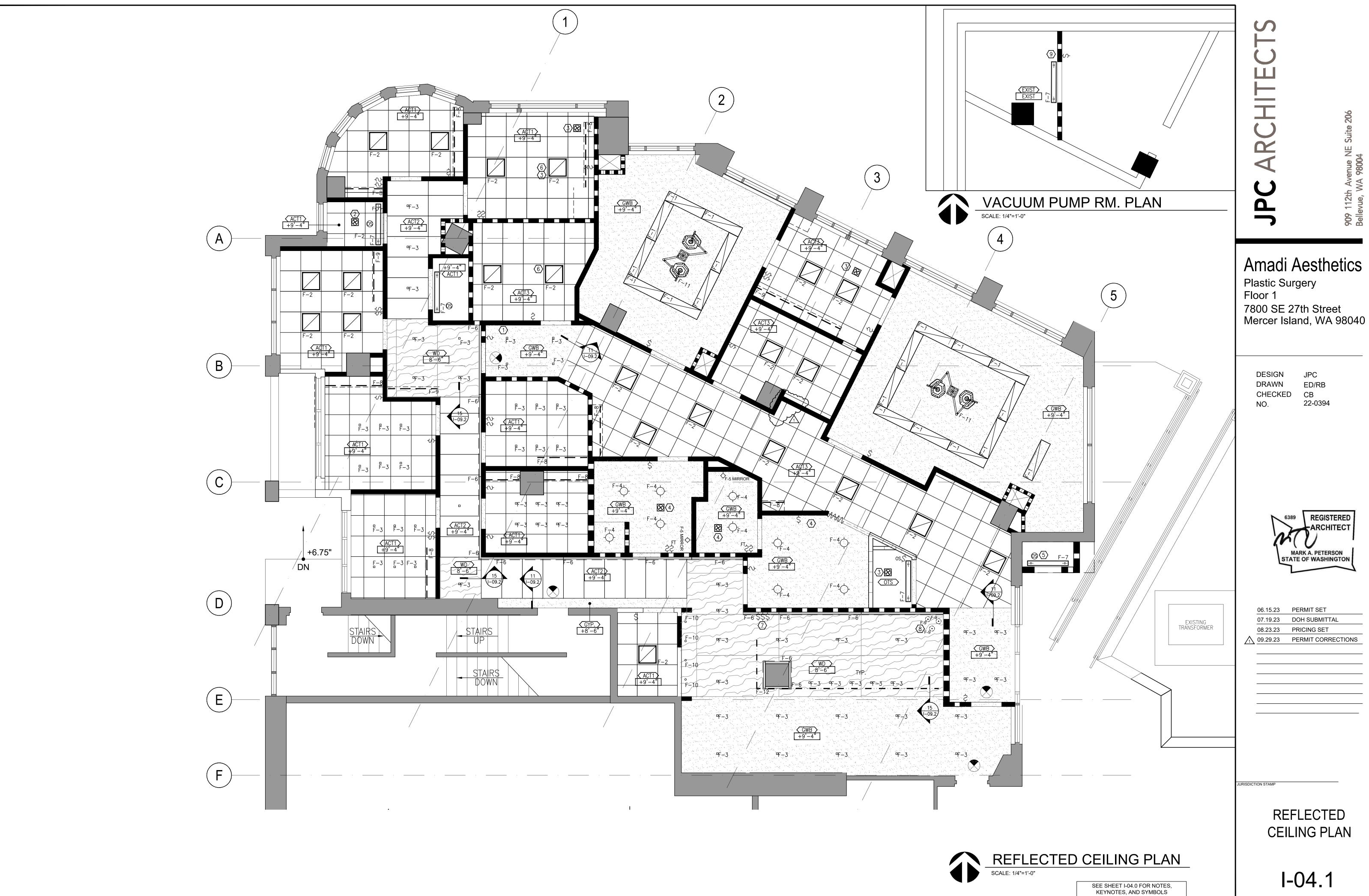
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RCP LIGHTING NOTES AND LEGEND

I-04.0

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Author: ERIKA DEHLE Dwg: L:\2022\22-0



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> REFLECTED CEILING PLAN

> > 1-04.1

<b>T</b>	EQUIPMENT SCHEDULE	PATIENT COMPRESSION MACHINE		SINK:	STAFF RESTROOM	KEY NOTES:	POWER PLUMBING & FO'T SHEET NOTES:
— 1 INCH —	PROVIDED & INSTALLED BY GENERAL CONTRACTOR U.N.O)  NOTE: CONTRACTOR TO VERIFY ALL FINAL EQUIPMENT SPECIFICATIONS WITH DENTAL EQUIPMENT SUPPLIER AND/OR TENANT AND COORDINATE ALL FINAL REQUIREMENTS (INCLUDING BLOCKING, POWER, PLUMBING, VENTING, AND CLEARANCES).  ITEM DESCRIPTION  SURGERY LIGHT - DUAL CEILING MOUNTED MFR / MODEL: AVANTE SLS 9000 SHADOWLESS LED SURGICAL LIGHT DIMS: VARIABLE REQUIRES POWER NEAR MOUNTING PLATE. COLOR TEMP: 3500 - 5000 KELVIN SEE REFLECTED CEILING PLAN 14.0. VERIFY LOCATION OF POWER BOX. PROVIDED BY: AVANTE HEALTH SOLUTIONS PER OWNER SEE REFLECTED CEILING PLAN & NOTES ON 1-04.0 / 1-04.1	PATIENT COMPRESSION MACHINE MFR / MODEL: AVANTE KENDALL SCD 700 SEQUENTIAL COMPRESSION SYSTE 7SCD700RS CONTROLLER - 9528-N TUBING SET REQUIRES POWER PROVIDED BY: AVANTE HEALTH SOLUTIONS PER OWNER  29 PATIENT WARMER MFR / MODEL: AVANTE WILDCAT 750 PATIENT WARMER DIMS: 11.02"H X 8.66"D X 8.66"W REQUIRES POWER PROVIDED BY: AVANTE HEALTH SOLUTIONS PER OWNER  PLUMBING FIXTURE SCHEDULE: (Provided & Installed by Contractor U.N.O) ITEM DESCRIPTION	G.	SIZE: DEPTH: FINISH: NOTE: FAUCET: MFR: MODEL: FINISH:	AMERICAN STANDARD DECORUM 9024.001EC WALL MOUNT SINGLE BASIN ADA SINK WITH OVERFLOW OVERALL 20"W X 18. 25"D 5" VITREOUS CHINA - WHITE PLUMBER TO VERIFY HOLE QTY REQUIRED. CONTRACTOR TO PROVIDE BLOCKING REQUIREMENTS.  MOEN ALIGN #619 SERIES SINGLE HOLE LEVER STYLE FAUCET MATTE BLACK	ALL OFFICE WORKSTATIONS SHALL BE EQUIPPED WITH (1) SINGLE GANG MUD RING (WITH PULL STRING) AND (1) 110V DUPLEX OR QUAD OUTLET (PER PLAN). WHERE QUAD OUTLET IS INDICATED, AT LEAST (1) PLUG SHALL BE DEDICATED FOR CPU; NO MORE THAN (4) DEDICATED OUTLETS FOR CPUS TO BE ON (1) CIRCUIT. ALL HORIZONTAL DATA/COMMUNICATIONS PATHWAYS IN INSULATED WALLS SHALL BE RUN IN CONDUIT OF APPROPRIATE SIZE. CONFIRM REQUIREMENTS WITH IT TECH.  2 PROVIDE POWER, DATA &/OR AV PER PLAN IN WALL FOR WALL-MOUNTED MONITOR. PROVIDE PATHWAY CONDUIT (2") IN WALLS BETWEEN DISPLAYS AND CONTROLLING CPU. VERIFY EXACT LOCATIONS AND SIZES WITH IT TECH AND/OR DOCTOR.  3 COPY MACHINE/PRINTER (T.F.T.I.) WITH (1) SINGLE GANG MUD RING (WITH PULL STRING) AND (1) 110V DUPLEX (WALL). COORDINATE CIRCUIT/AMP AND JACK/RECEPTACLE REQUIREMENTS WITH DOCTOR.	POWER, PLUMBING & EQ'T SHEET NOTES:  1. ELECTRICAL AND PLUMBING ENGINEERING IS ASSUMED TO BE DESIGN-BUILD BY GENERAL CONTRACTOR.  2. OUTLET FINISHES, UNLESS NOTED OTHERWISE: ISOLATED GROUND: GRAY ALL OTHERS: WHITE SWITCH FINISH: WHITE COVERPLATE FINISH: WHITE (INCLUDES ALL COVERPLATES-POWER/VOICE/DATA)  3. ALL MEDICAL TREATMENT AREAS REQUIRE SEPARATE GROUND WIRE TO EACH ROOM PER WASHINGTON STATE ELECTRICAL CODE. VERIFY ALL CODE REQUIREMENTS.  4. PLUMBER TO PROVIDE HOT AND COLD WATER LINES TO ALL SINK LOCATIONS.  30. INDICATED DIM MONUMENT; C CLUSTER, U.N.  31. ELECTRICAL S SHALL BE INST & CARPET SPE 32. POWER/DATA/ BE PROVIDED 33. "H" INDICATES 34. VERIFY NEW F TO INSTALLAT
	MFR / MODEL: STERIS 3085SP DIMS: 76"L x 20"W x 27" - 44"H COLOR: STANDARD PROVIDED BY: AVANTE HEALTH SOLUTIONS PER OWNER  MAYO TABLE MFR / MODEL: DIMS:  INSTRUMENT TABLE MFR / MODEL: DIMS:  SOLUTERY MFR / MODEL: VALLEYLAB FORCE 2 ELECTROSURGICAL GENERATOR DIMS: 13"W X 21"L X 8" H REQUIRES POWER. PROVIDED BY:AVANTE HEALTH SOLUTIONS PER OWNER  ANESTHESIA MFR / MODEL: DRAEGER - SIEMENS FABIUS GS ANESTHESIA MACHINE DIMS: 53.2"H x 35.2"W x 32.3"D REQUIRES POWER. PROVIDED BY: AVANTE HEALTH SOLUTIONS PER OWNER  TUPO MFR / MODEL: MEDCO ASPIRATOR IV DIMS: 17"X18"X18" REQUIRES POWER. PROVIDED BY: OWNER  BLASER MFR / MODEL: SCITON - mJOULE DIMS: TBD REQUIRES POWER.	A.1  TOILET - LEFT-HAND TRIP: STAFF CHANGING MFR: SWISS MADISON MODEL: ST. TROPEZ SM-1T253 - 1 PIECE 1.28 GAL ELONGATED TOILET - ADA COMPLIANT COLOR: WHITE  A.2  TOILET - RIGHT-HAND TRIP: PATIENT RESTROOM MFR: SWISS MADISON MODEL: ST. TROPEZ SM-1T253 - 1 PIECE 1.28 GAL ELONGATED TOILET - ADA COMPLIANT COLOR: WHITE  B  SINK: EXAM AND TREATMENT ROOMS MFR: ELKAY - QUARTZ LASSIC MFS: ELG1616 (BK) UNDER MOUNT SINGLE BASIN SINK SIZE: 15.3/4"W X 15.3/4"L DEPTH: 8" FINISH: BLACK - HIGH PERFORMANCE RESIN - QUARTZ NOTE: PLUMBER TO VERIFY HOLE QTY REQUIRED  FAUCET: PFISTER MODEL: ZEELAN LF-042-ZLB SINGLE CONTROL LAVATORY FAUCET SINGLE HOLE - NO FLANGE SIZE: 3.3/4"W X 8 7/8"H (ADA COMPLIANT) FINISH: MATTE BLACK NOTE: PLUMBER TO VERIFY HOLE QTY REQUIRED  SOAP DISPENSER: MFR: DELTA MODEL: #734BL TRINSIC DECK SOAP DISPENSER FINISH: MATTE BLACK	G:	FINISH:  SHOWER MFR: MODEL: FINISH: NOTE:  SHOWER MFR: MODEL: SIZE: FINISH: NOTE:  SHOWER MFR: MODEL: DIMS: FINISH:	BL - MATTE BLACK  R VALVE TRIM SET:  KOHLER STILLNESS  K-T10940  BL - MATT BLACK  ADA COMPLIANT  R ENCLOSURE  AQUATIC ACCESSIBLE SHOWERS  136BFSC TRANSFER SHOWER ENCLOSURE WITH FOLD DOWN  SEAT AND CENTER DRAIN  (INTERIOR) 36"W X 36"D X 75"H (OVERALL) 38"W X 38"D X 77"H  SMOOTH WALL ACRYLIC  COORDINATING GRAB HANDLES - MATT BLACK  R DOOR  MISENO  MSDSWY3472CLCP - TEMPERED GLASS  34"W X 72"H X 3/8" THICK  TBD	CONTRACTOR TO VERIFY ALL REQUIREMENTS FOR SERVER, PHONE BOARD, AND AUDIO/VIDEO AT TECH CLOSET 115 WITH IT AND AV TECH AND/OR TENANT.  NEW ELECTRICAL PANEL LOCATIONS - REVIEW ANY RECOMMENDED CHANGES IN LOCATION WITH ARCHITECT. PAINT TO MATCH WALL COLOR.  LOCATION OF MED GAS ALARM PANEL - PROVIDE 110V POWER AND 1/2" CONDUIT FROM ALARM PANEL TO MED GAS AFS08. CONFIRM FINAL REQUIREMENTS AND LOCATION WITH EQUIPMENT SUPPLIER.  PROVIDE LABEL AS REQUIRED AT MED GAS DOOR TO READ: "POSITIVE PRESSURE GASSES, NO SMOKING OR OPEN FLAME, ROOM MAY HAVE INSUFFICIENT OXYGEN OPEN DOOR AND ALLOW ROOM TO VENTILATE BEFORE ENTERING"	<ul> <li>5. THE BUILDING SYSTEMS IN THIS FACILITY SHOULD BE CONSIDERED A CATEGORY '1' PER NFPA-99, SECTION 4.1.3 THE GENERAL CONTRACTOR MUST CONFIRM THE BUILDING SYSTEM CATEGORY REQUIRED FOR THIS PRACTICE WITH THE DOCTOR AND A 3RD-PARTY VERIFIER BEFORE PROCEEDING WITH THE DESIGN AND CONSTRUCTION OF THE MEDICAL GAS AND VACUUM SYSTEMS.</li> <li>6. MEDICAL GAS SYSTEMS AND VACUUM LINES REQUIRE VERIFICATION BY A CERTIFIED 3RD-PARTY VERIFIER ACCORDING TO THE REQUIREMENTS OF WA STATE CODE AND 2018 NFPA-99. THESE SYSTEMS MUST MEET THE REQUIREMENTS OF NFPA-99 FOR THE CATEGORY OF VERIFICATION REQUIRED BASED ON THE PRACTICE REQUIREMENTS AS DETERMINED BY NFPA-99, SECTION 4. OUTLETS AND LOCATIONS NOTED ON THESE DRAWINGS MUST BE CONFIRMED BY THE PLUMBER AND THE 3RD-PARTY VERIFIER PRIOR TO CONSTRUCTION.</li> <li>7. CONTRACTOR IS REQUIRED TO OBTAIN 3RD PARTY REVIEW AND VERIFICATION OF THE MEDICAL GAS, MEDICAL AIR AND MEDICAL SUCTION SYSTEMS. ALL REQUIREMENTS MUST BE VERIFIED PRIOR TO COMMENCING CONSTRUCTION OF THE SYSTEM.</li> <li>8. FOR MEDICAL CLINICS AS DESCRIBED IN WAC 246-290-490 TABLE 13, PROVIDE BACK-FLOW PREMISES ISOLATION AS REQUIRED PER WAC 246-290-490 TABLE 12 FOR HIGH HEALTH CROSS-CONNECTION HAZARD AND AS REQUIRED BY THE GOVERNING MUNICIPALITY/AGENCY (IF NOT PRESENT). CONFIRM FINAL REQUIREMENTS WITH EQUIPMENT SUPPLIER.</li> <li>9. MEDICAL FIXTURES AND EQUIPMENT TO BE CLIENT-FURNISHED AND INSTALLED, UNLESS OTHERWISE NOTED. ITEMS INCLUDED ARE: AFS EQUIPMENT IN OPERATORIES, STERILIZATION &amp; LAB, AND SPECIFIED MECHANICAL EQUIPMENT. CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIER AND DOCTOR FOR THE ADDITIONATE WITH ADDITIONATE MEDICAL PROPERM</li></ul>
	PROVIDED BY: OWNER  CRASH CART - MOBILE MFR / MODEL: HARLOFF 6 DRAWER #6401 DIMS: 44.5'H x 38" W x 22"D REQUIRES POWER. PROVIDED BY: AVANTE HEALTH SOLUTIONS PER OWNER  ULTRASONIC - COUNTERTOP MFR / MODEL: BRANSON BRANSONIC CPX SERIES #5800 DIMS: 15.6" X 15.8" X 14.9" REQUIRES POWER. PROVIDE DRAIN HOSE BETWEEN UNIT AND SINK DRAIN. PROVIDED BY: OWNER  AUTOCLAVE - COUNTERTOP MFR / MODEL: MIDMARK M11 ULTRACLAVE DIMS: 23.8"W x 17.8"L x 17.8"H REQUIRES POWER. PROVIDED BY: OWNER	C SCRUB SINK AND EYEWASH: ASF CORRIDOR MFR: MAC MEDICAL MODEL: ES SERIES 45 KNEE WALL MOUNT DOUBLE BASIN SURGICAL MODEM: SCRUB SINK W/ EYE WASH SIZE: 45"W X 20.5" FINISH: 18-GAUGE STAINLESS STEEL NOTE: PLUMBER TO VERIFY INSTALLATION REQUIREMENTS. SINK PROVIDED BY SURGERY CENTER SERVICES OF AMERICA & INSTALLED BY GC.  D SINK: CLEAN WORK MFR: ELKAY MODEL: LUSTERTONE CLASSIC ELUH1316 UNDER MOUNT SINGLE BASIN SINK SIZE: 16"W X 18-1/2"L		SINK: MFR: MODEL: SIZE: DEPTH: FINISH: NOTE:  FAUCET: MFR: MODEL: INSTALL FINISH:	: #19824-BL KEELE SINGLE-HANDLE PULL-DOWN SPRAYER L: SINGLE-HOLE MATTE BLACK  GE DISPOSAL:	ACCESSORIES OTHER: (PROVIDED & INSTALLED BY CONTRACTOR, U.N.O)  A.6 CURTAIN TRACK WITH CARRIERS - PATIENT CHANGING ROOM: NOT USED  APPLIANCE SCHEDULE:	FINAL REQUIREMENTS AND COORDINATE/UPDATE ARCHITECT AS REQUIRED. LAYOUT TEMPLATES FOR ALL STUB-OUTS AND BLOCKING LOCATIONS ARE REQUIRED.  10. PROVIDE FILTERED WATER LINE AND DEDICATED POWER FOR ALL PLUMBED APPLIANCES. APPLIANCES REQUIRING WATERLINES SHALL BE SERVED FROM ONCE SOURCE VIA UNDER SINK WATER FILTER.  11. OPERATORIES AND STERILIZATION EQUIPMENT - COORDINATE WITH EQUIPMENT SUPPLIER AND CLIENT FOR FINAL PLUMBING AND ELECTRICAL REQUIREMENTS AND COORDINATE/UPDATE ARCHITECT AS REQUIRED.  12. ENSURE ALL STAFF BREAK ROOM CIRCUITS ARE ISOLATED FROM OTHER CIRCUITS.  13. ANCILLARY FURNITURE, FIXTURES AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO FILE CABINETS, TABLES, CHAIRS ARE TO BE TENANT-FURNISHED AND
	REFRIGERATOR- COUNTER TOP     MFR / MODEL: ACCUCOLD S19LWH COMPACT LOCKING     DIMS: 20.13"Hx 17.75"Wx 17.63"D     REQUIRES POWER.     PROVIDED BY: OWNER       BLANKET WARMER - COUNTERTOP     MFR / MODEL: MAC MEDICAL D-SERIES SWC243036     DIMS: 30.5"W x 26.25"D x 36"H     REQUIRES POWER.     PROVIDED BY: OWNER       DRUG LOCKER- WALL MOUNTED     MFR / MODEL: HARLOFF 2820AQ     DIMS: 16"H x 12"W x 9"D     PROVIDED BY: GENERAL CONTRACTOR       VACUUM PUMP / MANIFOLD     SEE PLUMBING AND MEDICAL GAS DRAWINGS.	DEPTH: 7-7/8" FINISH: 18-GAUGE STAINLESS STEEL NOTE: PLUMBER TO VERIFY HOLE QTY REQUIRED  FAUCET MFR: DELTA MODEL: #175-DST SINGLE HANDLE W/ SPRAY ATTACHMENT INSTALL: TWO-HOLES FINISH: POLISHED CHROME  E  SINK: SOILED WORK MFR: ELKAY MODEL: CROSSTOWN #ECTRU35179T UNDER MOUNT DOUBLE BASIN SIN SIZE: 36 1/2"W X 18 1/2"L DEPTH: 9" FINISH: 18-GAUGE STAINLESS STEEL NOTE: PLUMBER TO VERIFY HOLE QTY REQUIRED	J	MFR: MODEL: NOTE:  MOP SIN MFR: OVERAL DEPTH: FINISH: NOTE:  FAUCET: MFR: INSTALL FINISH:	INK: EVS CLOSET ACORN ENGINERRING FLOOR MOUNT SINGLE BASIN MOP SINK ALL 24"W X 24"L : 6" AND 10" : TERRAZZO PROVIDE FRP AT WALL AT MOP SINK  T: AMERCIAN STANDARD #8344.212	(PROVIDED & INSTALLED BY TENANT, U.N.O)  NOTE: CONTRACTOR TO VERIFY ALL FINAL APPLIANCE SPECIFICATIONS WITH TENANT AND COORDINATE ALL FINAL REQUIREMENTS (INCLUDING POWER, PLUMBING, VENTING, AND CLEARANCES).  ITEM DESCRIPTION  MICROWAVE (PROVIDED BY TENANT) MFR/MODEL: TBD DIMS: TO BE VERIFIED FINISH: TBD REQUIRES DEDICATED POWER - VERIFY  PLUMBED REFRIGERATOR (PROVIDED BY TENANT) MFR/MODEL: TBD DIMS: TO BE VERIFIED DIMS: TO BE VERIFIED DIMS: TBD REQUIRES DEDICATED POWER AND COLD WATER-LINE - VERIFY.  18" ADA DISHWASHER (PROVIDED AND INSTALLED BY G.C.)	<ul> <li>INSTALLED, UNLESS OTHERWISE NOTED.</li> <li>14. POWER ON THE ASF SIDE TO BE SUPPORTED BY SEPARATE ELECTRICAL PANEL(S) THAN THE CLINIC POWER AND TO BE LOCATED ON WALL ADJACENT THE EVS CLOSET AFS02. THE CLINIC POWER IS TO BE DETERMINED.</li> <li>15. NEW EMERGENCY GENERATOR PROVIDED BY CONTRACTOR. SEE LANDSCAPE DRAWINGS FOR LOCATION AND STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS.</li> <li>16. SURVEY FIELD CONDITIONS AND VERIFY THAT WORK IS FEASIBLE AS SHOWN. VERIFY LOCATION OF ALL OUTLETS IN RELATION TO STRUCTURAL AND OTHER ELEMENTS AS REQUIRED. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.</li> <li>17. ARCHITECTURAL DRAWINGS DETERMINE LOCATION AND TYPE (ARCHITECT TO VERIFY W/ ENGINEER) OF ALL OUTLETS AND TAKE PRECEDENCE OVER ALL OTHERS, U.N.O ELECTRICAL ENGINEER'S POWER PLAN SHALL GOVERN THE WIRING LAYOUT AND INSTALLATION IN COMPLIANCE WITH ALL LAWS APPLICABLE</li> </ul>
	STRETCHER MFR / MODEL: STYKER 1089 DIMS: 90"Lx 31.5"Wx 22" - 34"H PROVIDED BY: OWNER  17 SHELF MFR / MODEL: PEDIGO P 824 STAINLESS STEEL DIMS: 24"W x 8"D x 8"H PROVIDED BY: GENERAL CONTRACTOR  18 SHELF MFR / MODEL:PEDIGO P830 STAINLESS STEEL DIMS: 30"W X 8"D PROVIDED BY: GENERAL CONTRACTOR  19 WHEELCHAIR MFR / MODEL: EVERST & JENNINGS - TRAVELER L3 PLUS 3F012340 DIMS: 20" W x 18 "D PROVIDED BY: OWNER	FAUCET MFR: DELTA MODEL: #175-DST SINGLE HANDLE W/ SPRAY ATTACHMENT INSTALL: TWO-HOLES FINISH: POLISHED CHROME   FINISH: PATIENT RESTROOM SINK MFR: NAMEEK'S MFS: CERA STYLE SINGLE HOLE 068300-U PORTO WALL MOUNT SINGLE BASIN ADA SINK WITH OVERFLOW SIZE: OVERALL 33.7"W X 18.9"D DEPTH: 6.5" NOTE: PLUMBER TO PROVIDE BLOCKING REQUIREMENTS  FAUCET: MANF: MOEN MODEL: #619 ALIGN SINGLE HOLE LEVER STYLE FAUCET FINISH: MATTE BLACK	<b>I</b>	SIZE: DEPTH: FINISH: NOTE:  FAUCET MFR: MODEL: FINISH:	NURSE STATION ELKAY  LUSTERTONE CLASSIC #ELUH1316 UNDER MOUNT SINGLE BASIN SINK 13"W X 16"L 6 1/2" 18-GAUGE STAINLESS STEEL PLUMBER TO VERIFY HOLE QTY REQUIRED  ELKAY 4" CENTERSET #LK406HA08L2 LEVEL HANDLE ADA CHROME  OM ACCESSORIES: NSTALLED BY CONTRACTOR, U.N.O)	MFR/MODEL: HAIER #QDT125SSLSS DIMS: 17-3/4"W X 22-1/2"D X 32-1/2"H MFR: STAINLESS STEEL REQUIRES DEDICATED POWER, HOT WATER LINE AND DRAIN  STACKING WASHER/ELEC DRYER (PROVIDED BY TENANT): MFR/MODEL: SPEED QUEEN SF7007WE DIMS: 26 \( \frac{7}{8}\)"W x 27 \( \frac{3}{4}\)"D x 78 \( \frac{8}{9}\)"H FINISH: WHITE REQUIRES DEDICATED POWER, HOT&COLD WATER LINES, DRAIN LINE AND VENT TO EXTERIOR - VERIFY  ELECTRIC WATER HEATER: 50-GALLON QUICK-RECOVERY WITH RECIRCULATION PUMP (PLUMBER TO VERIFY CAPACITY REQUIRED). PROVIDE PAN WITH DRAIN. REQUIRES DEDICATE POWER, WATER LINES, DRAIN AND DRAIN PAN - VERIFY  SYMBOLS LEGEND	AND ENFORCED BY GOVERNING AUTHORITIES.  18. OUTLETS SHOWN BACK TO BACK ON PARTITION WALLS SHALL BE OFFSET 1'-0", MAXIMUM, OR MOUNTED AT DIFFERENT HEIGHTS IF INDICATED.  19. FURNITURE, IF SHOWN, IS FOR REFERENCE ONLY AND IS NOT IN CONTRACT, U.N.O.  20. COORDINATE ALL WORK RELATED TO EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS, SPECIFICATIONS AND INSTRUCTIONS.  21. ALL EXISTING AND NEW FLOOR SLAB PENETRATIONS FOR CONDUIT OR PLUMBING LINES SHALL BE FULLY PACKED & SEALED IN ACCORDANCE WITH THE APPLICABLE BUILDING AND FIRE CODES.  22. COORDINATE NEW ELECTRICAL WITH EXISTING, WHERE OCCURS.  23. UPON COMPLETION OF OUTLET LAYOUT, NOTIFY THE ARCHITECT. ARCHITECT SHALL SITE VERIFY ALL OUTLET LOCATIONS PRIOR TO COMMENCEMENT OF CORING OR OUTLET INSTALLATION.
EHLE Dwg: L:12022122-0384/DWG/WIPIMASTERI-05.0 PGWER, PLUMBING AND EQUIPMENT NOTES AND LEGEND.BWG 8/2028 3:35 PM Pen Table: JPC 8TD.CTB XRef: ATB.dwg,	DIMS: 54"Lx37"Wx34.5"H CAPACITY 30FT LOCATION TO BE DETERMINED PROVIDED BY: OWNER		A.4	BOBRICK ROUGH C PAPER TO BOBRICK		F.E.C. SEMI-RECESSED FIRE EXTINGUISHER AND CABINET - TYPE II-10B.COLOR: WHITE   (E) RECEPTACLE ON EMERGENCY BACKUP  DUPLEX RECEPTACLE  DEDICATED DUPLEX RECEPTACLE  GFI DUPLEX RECEPTACLE  FOURPLEX RECEPTACLE  DEDICATED FOURPLEX RECEPTACLE  CORE DRILL  VOICE/DATA RECEPTACLE. GC TO PROVIDE MUD RING & PULL STRING  JUNCTION BOX  TV TV CABLE CONNECTION  FLOOR OUTLET  PP1 SPECIAL RECEPTACLE - CODE CALL PUSH BUTTON  PP2 SPECIAL RECEPTACLE - CODE CALL INDICATION LIGHT  PO1 SPECIAL RECEPTACLE - TOILET EMERGENCY CALL LIGHT  PO2 SPECIAL RECEPTACLE - HERGENCY CALL LIGHT OR.  NCPCSPECIAL RECEPTACLE - NURSE CALL PULL CORD  SPECIAL RECEPTACLE - AIR LINE  V SPECIAL RECEPTACLE - VAC LINE  V SPECIAL RECEPTACLE - VAC LINE  VS SPECIAL RECEPTACLE - VAC LINE  VS SPECIAL RECEPTACLE - VAC LINE  VS SPECIAL RECEPTACLE - OXYGEN LINE  CARD READER - EXISTING  WATER LINE  NO DESIGNATION N = NEW	

PATIENT MONITOR
MFR / MODEL: GE B650 CARESCAPE 15" DIAGONAL MONITOR

REQUIRES POWER
PROVIDED BY: AVANTE HEALTH SOLUTIONS PER OWNER

30. INDICATED DIMENSIONS ARE TO THE CENTER OF THE COVERPLATE OR MONUMENT; CLUSTERS OF OUTLETS ARE DIMENSIONED TO THE CENTER OF THE CLUSTER, U.N.O.; GANG COVERPLATES SHALL BE ONE-PIECE TYPE, U.N.O.

ELECTRICAL SWITCH AND OUTLET COVER PLATES, SURFACE HARDWARE, ETC.
SHALL BE INSTALLED AFTER PAINTING AND/OR APPLICATION OF WALLCOVERINGS

& CARPET SPECIFIED.

POWER/DATA/TELEPHONE REQUIREMENTS FOR OPEN OFFICE WORKSTATIONS TO

BE PROVIDED WITH FURNITURE INSTALLATION DRAWINGS-BY OTHERS.

"H" INDICATES THAT AN OUTLET SHALL BE MOUNTED HORIZONTALLY.

4. VERIFY NEW FLUSH FLOOR OUTLET LOCATIONS WITH FURNITURE LAYOUT PRIOR

35. ALL SWITCHES AND DIMMERS SHALL BE LOCATED 46" ABOVE FINISHED FLOOR TO CENTER OF SWITCH U.O.N.. MULTIPLE SWITCHES AT ONE LOCATION SHALL BE GANGED TOGETHER AND FINISHED WITH ONE COVER PLATE U.N.O.

PC ARCHITEC

# Amadi Aesthetics

Plastic Surgery Floor 1

7800 SE 27th Street Mercer Island, WA 98040

DESIGN JPC
DRAWN ED/RB
CHECKED CB
NO. 22-0394

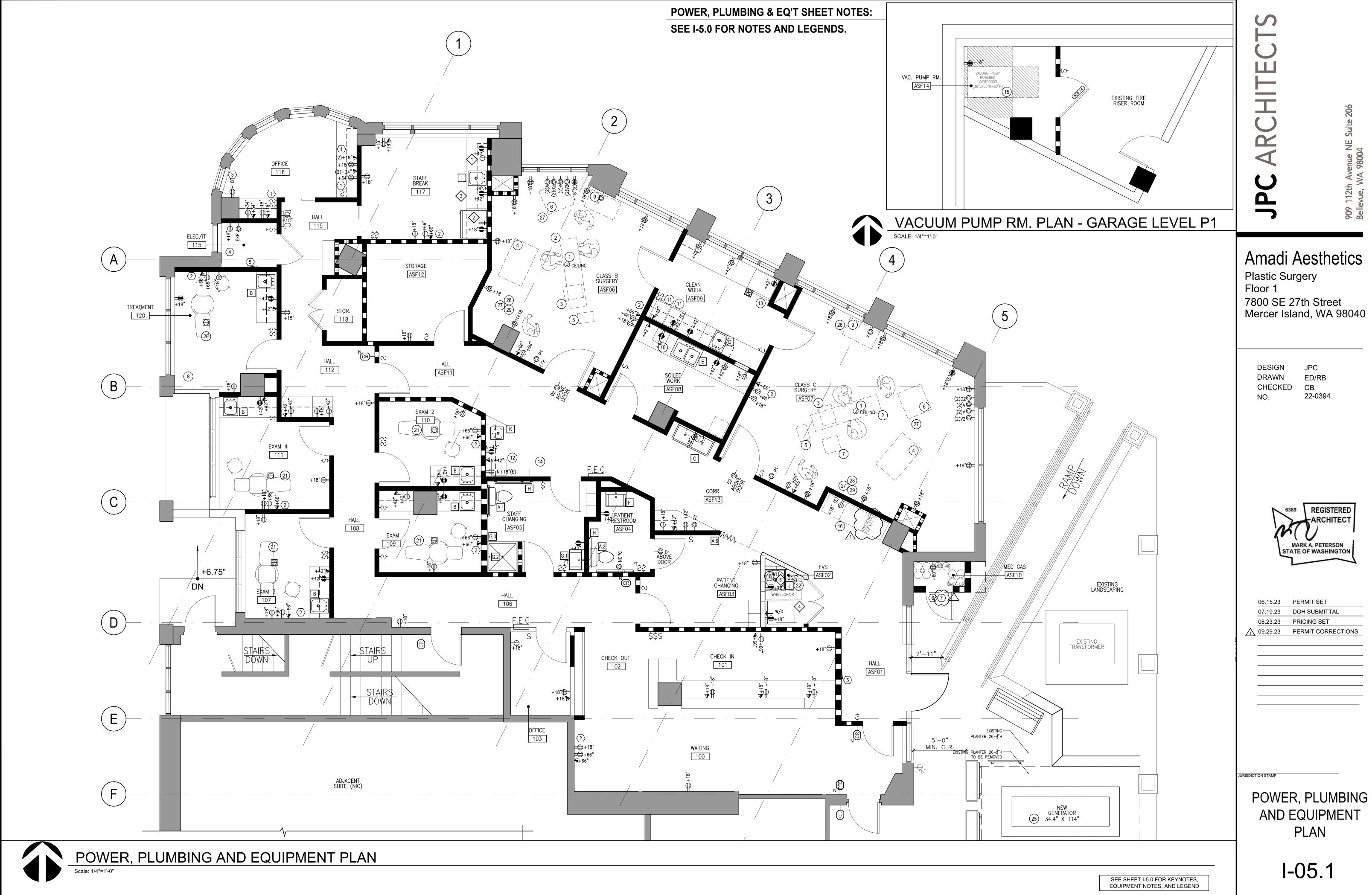


	06.15.23	PERMIT SET
	07.19.23	DOH SUBMITTAL
	08.23.23	PRICING SET
$\Lambda$	09.29.23	PERMIT CORRECTION
I		

JURISDICTION STAMP

POWER, PLUMBING AND EQUIPMENT NOTES AND LEGEND

I-05.0



TRANSITION DETAILS

SCALE: 6" = 1'-0"

**FINISH PLAN SHEET NOTES** 

Amadi Aesthetics



	06.15.23	PERMIT SET
	07.19.23	DOH SUBMITTAL
	08.23.23	PRICING SET
$\bigwedge$ 1	09.29.23	PERMIT CORRECTIONS

FINISH PLAN & FINISH SCHEDULE

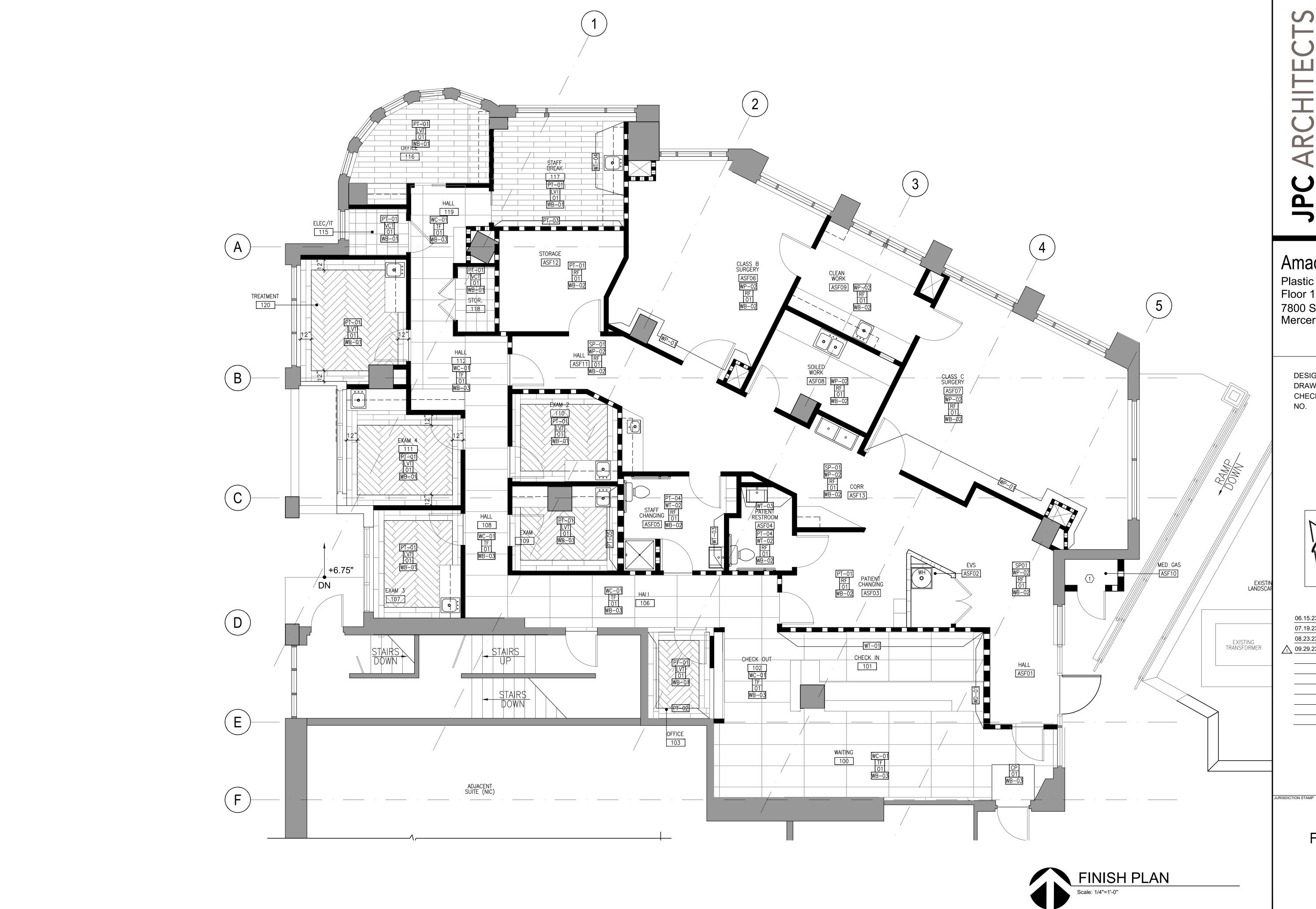
1-06.0



06.15.23 PERMIT SET 07.19.23 DOH SUBMITTAL 08.23.23 PRICING SET 09.29.23 PERMIT CORRECTIONS

FINISH PLAN

I-06.1



JPC ARCHITEC

S

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DESIGN JPC
DRAWN ED/RB
CHECKED CB
NO. 22-0394



06.15.23 PERMIT SET

07.19.23 DOH SUBMITTAL

08.23.23 PRICING SET

1 09.29.23 PERMIT CORRECTIONS

JURISDICTION STAMP

INTERIOR ELEVATIONS

I-08.1

PC ARCHITECT

S

Amadi Aesthetics

Plastic Surgery Floor 1 7800 SE 27th Street

7800 SE 27th Street Mercer Island, WA 98040

DESIGN JPC
DRAWN ED/RB
CHECKED CB
NO. 22-0394



	06.15.23	PERMIT SET
	07.19.23	DOH SUBMITTAL
	08.23.23	PRICING SET
$\Lambda$	09.29.23	PERMIT CORRECTIONS

JURISDICTION STAMP

INTERIOR ELEVATIONS

I-08.2

7800 SE 27th Street Mercer Island, WA 98040

DESIGN JPC
DRAWN ED/RB
CHECKED CB
NO. 22-0394



06.15.23 PERMIT SET

07.19.23 DOH SUBMITTAL

08.23.23 PRICING SET

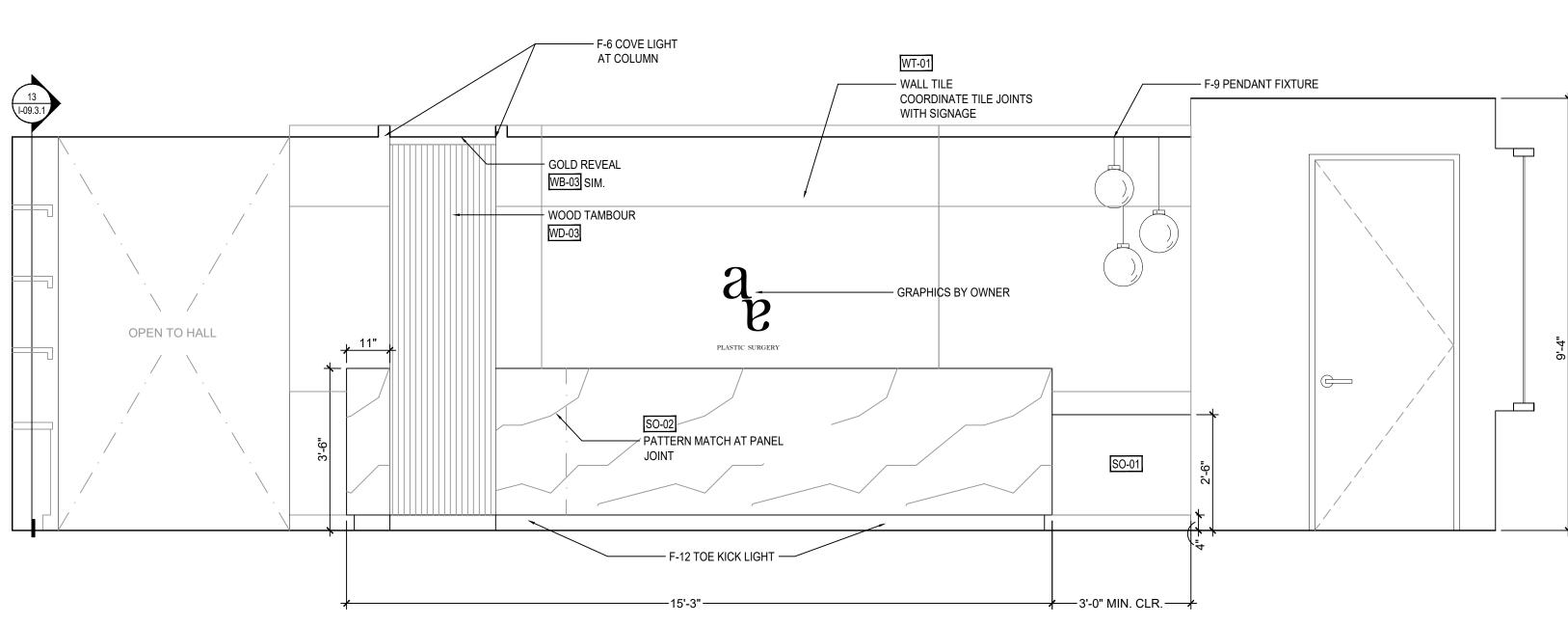
09.29.23 PERMIT CORRECTIONS

JURISDICTION STAMP

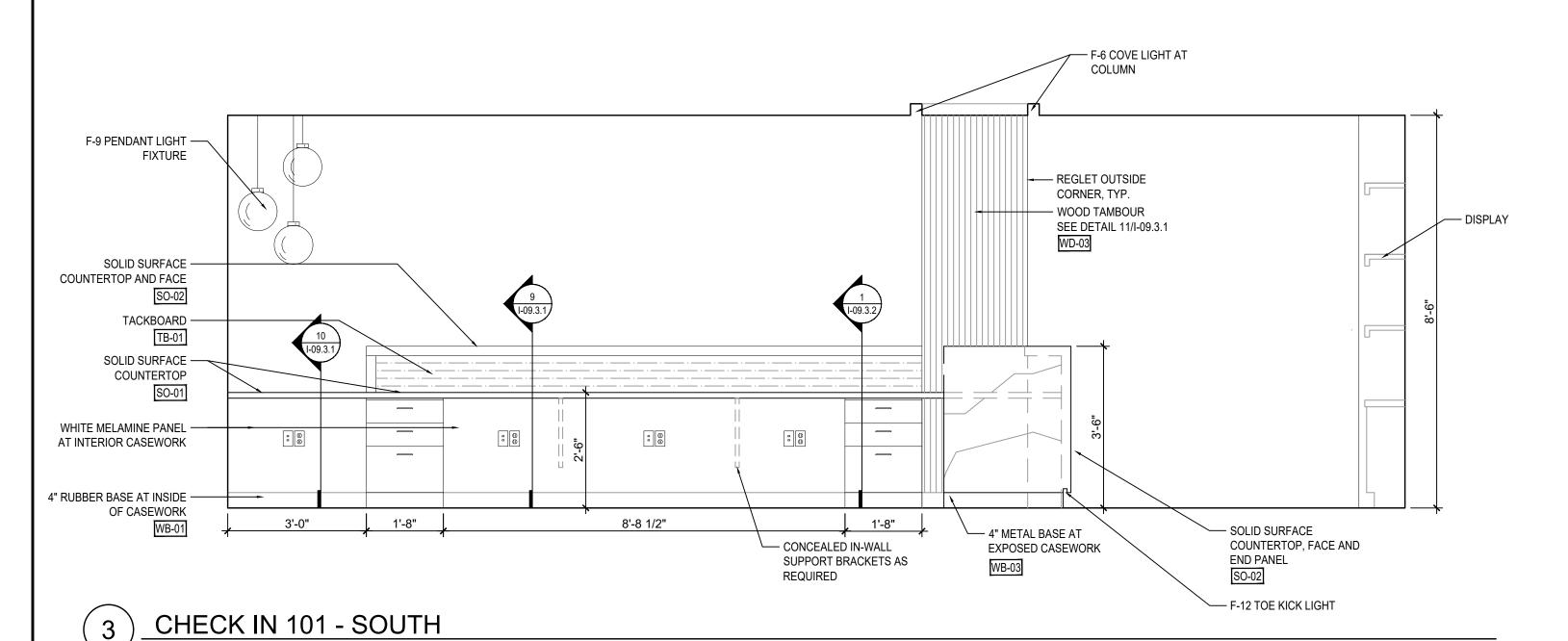
INTERIOR ELEVATIONS

1-08.3

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1 CHECK IN 101 - NORTH



PAINTED GWB
PT-01

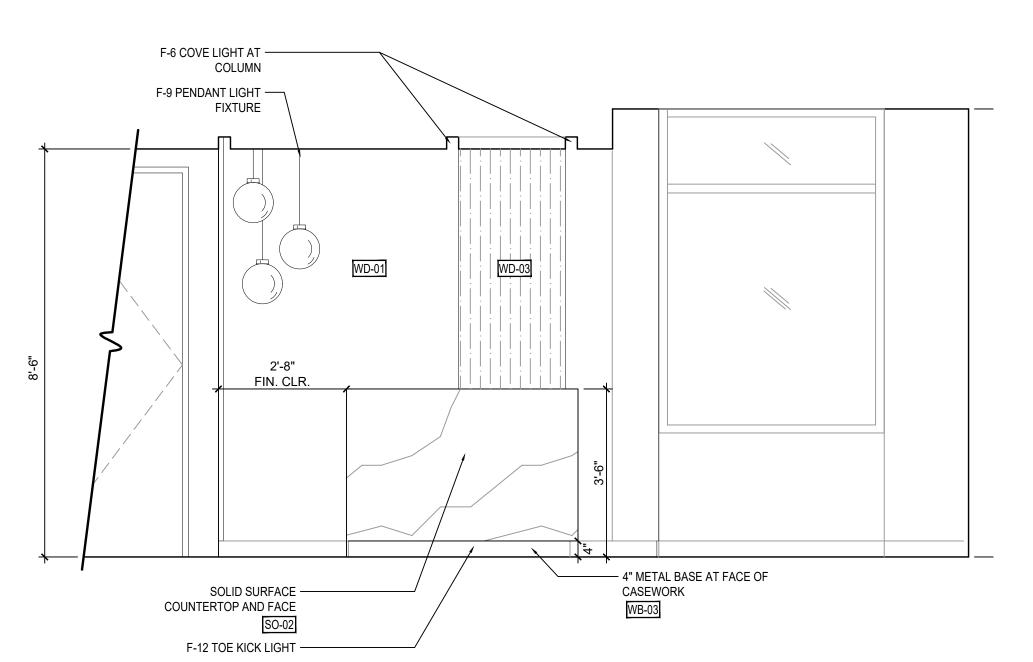
2' WOOD SHELF
P-10 LIGHTHEAD MILLWORK
PUCK LIGHTS - 2' LED

SOLID SURFACE
COUNTERTOP
SO-02

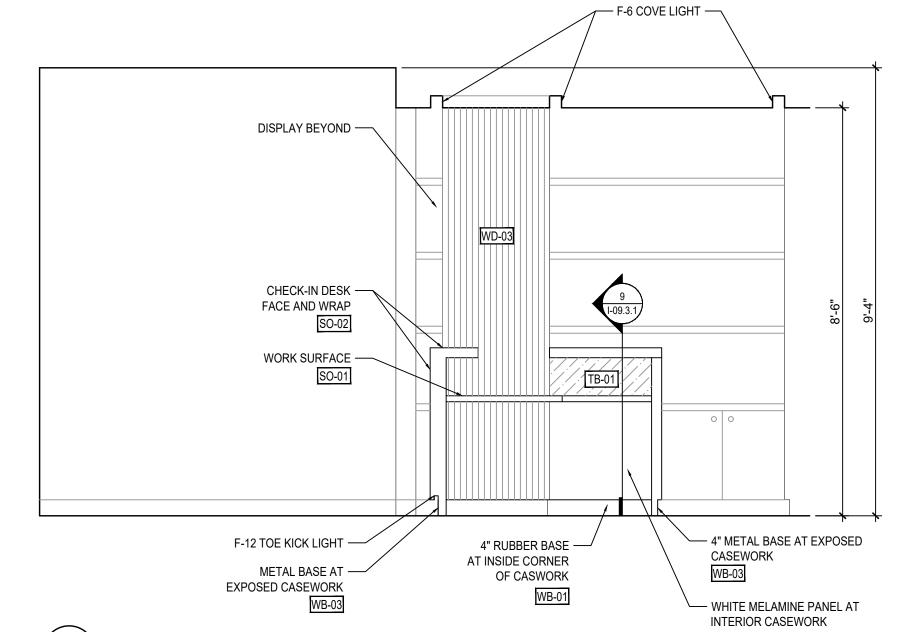
PLAM BASE CABINETS
PLAD

DECORATIVE METAL BASE
WR-03

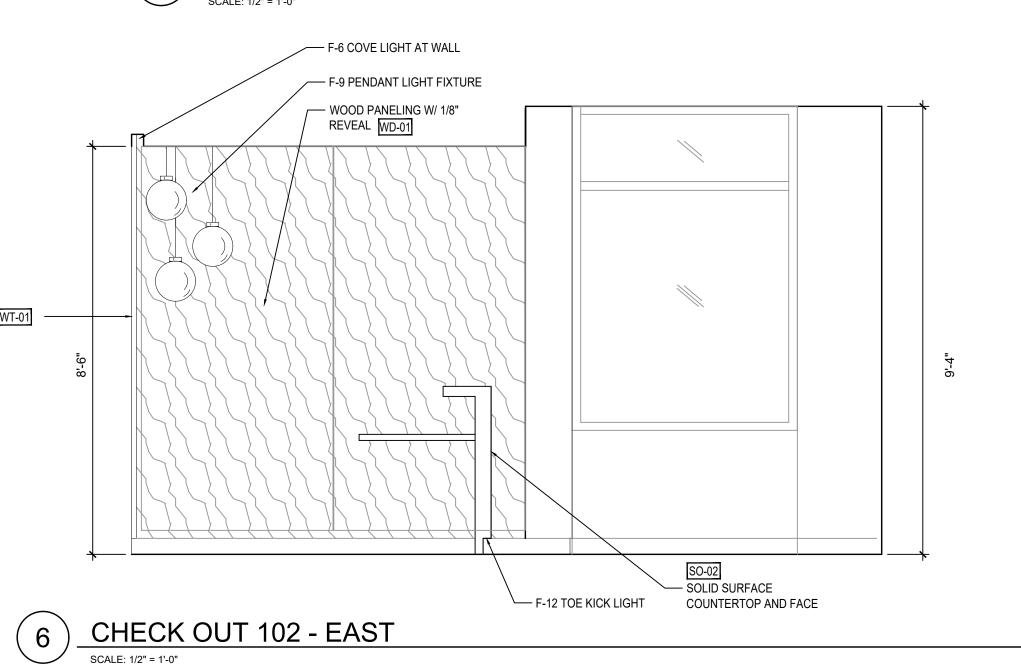
5 CHECK OUT 102 - WEST AT DISPLAY SHELF

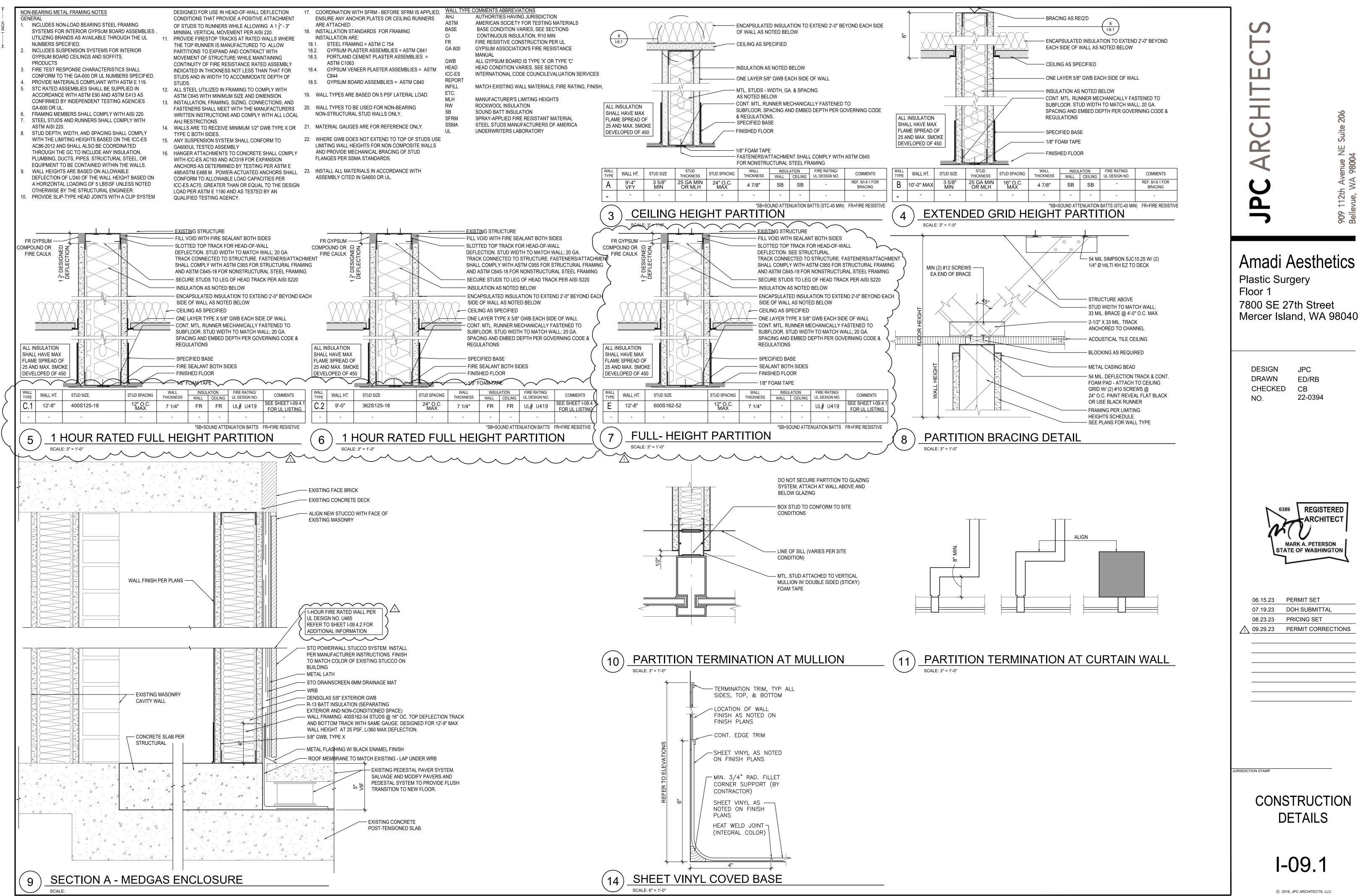


2 CHECK OUT 102 - EAST



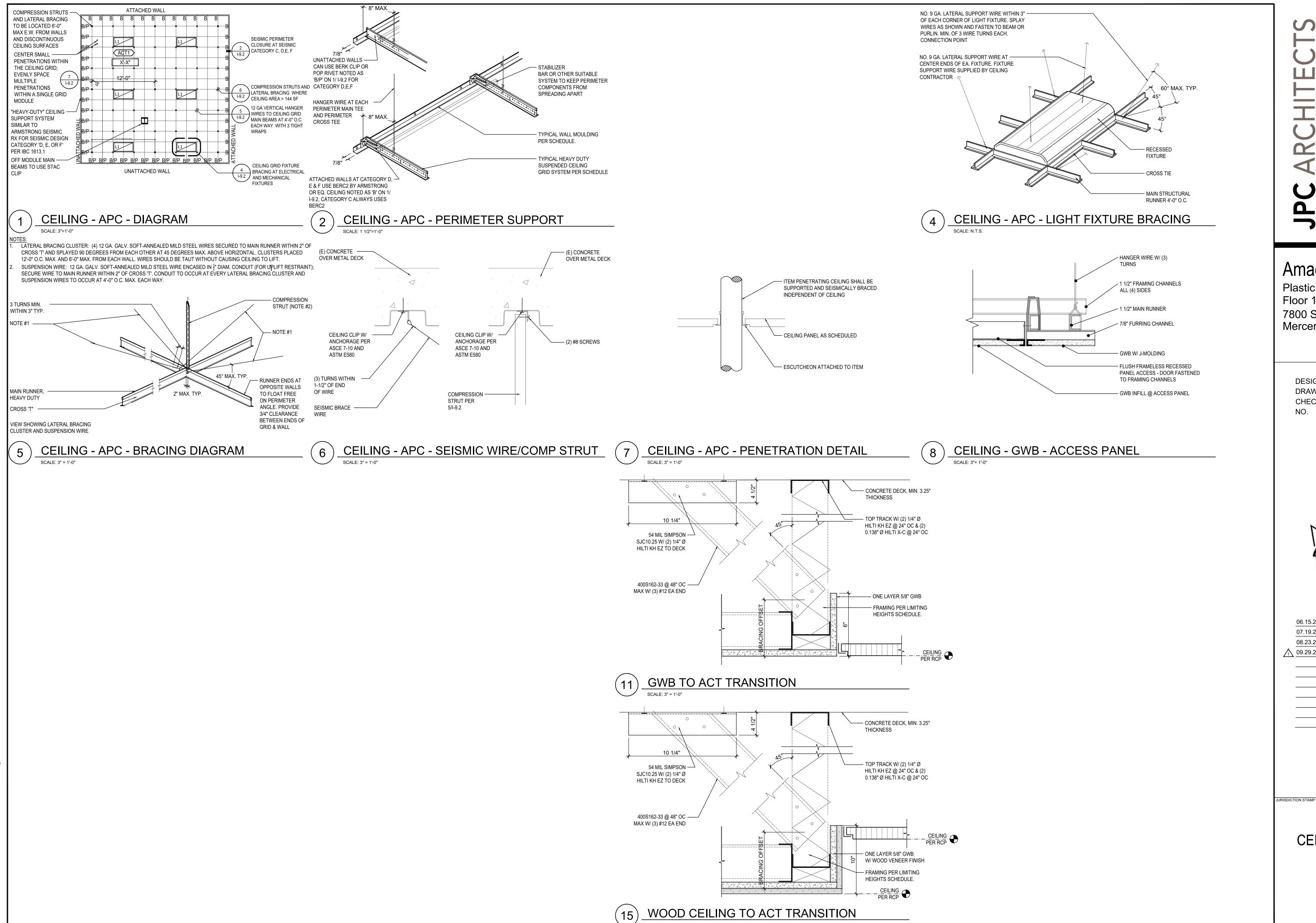
4 CHECK OUT 102 - WEST







↑ 09.29.23 PERMIT CORRECTIONS



Amadi Aesthetics

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7800 SE 27th Street Mercer Island, WA 98040

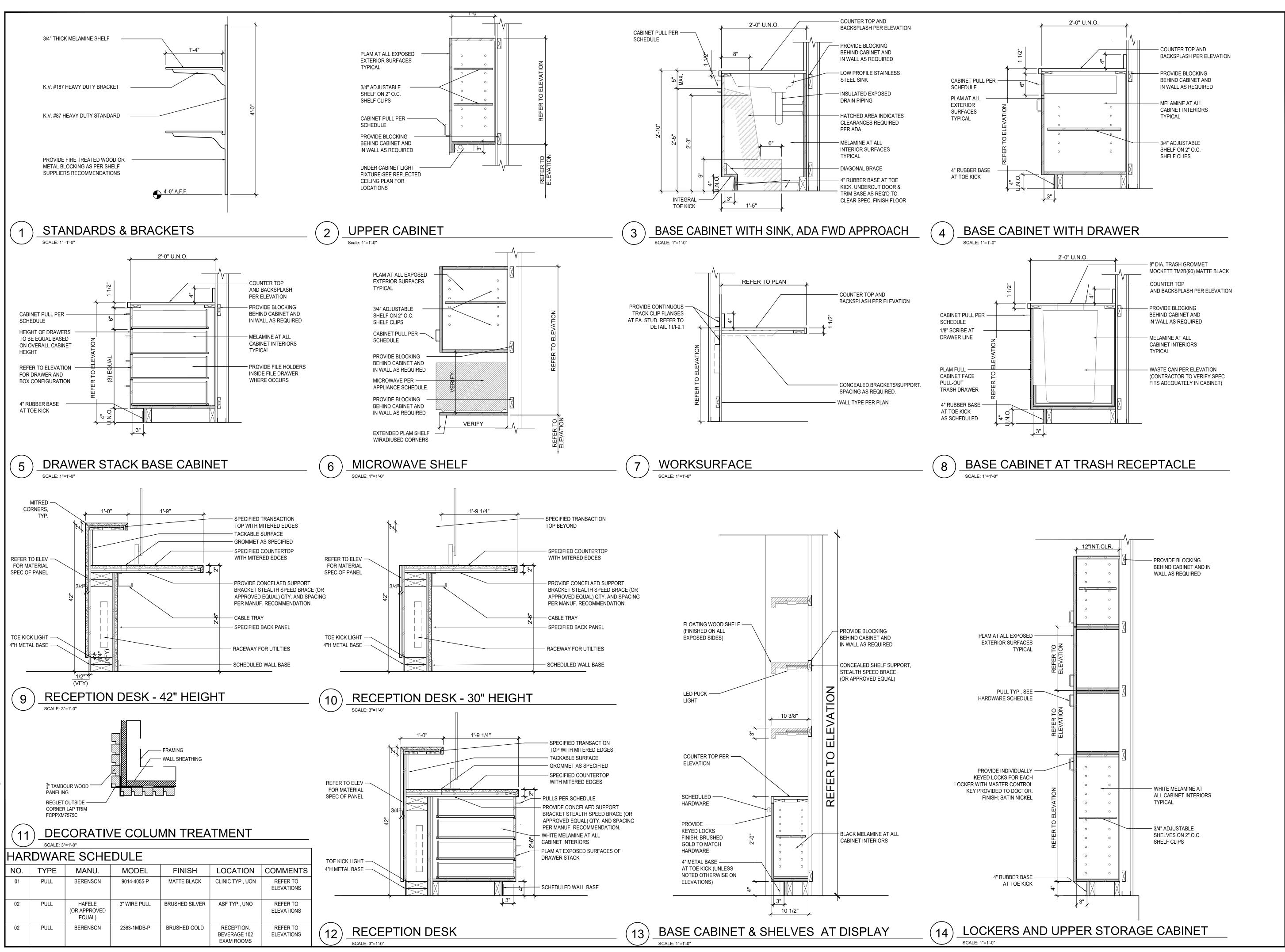
> DESIGN JPC DRAWN ED/RB CHECKED CB 22-0394



06.15.23 PERMIT SET 07.19.23 DOH SUBMITTAL 08.23.23 PRICING SET 09.29.23 PERMIT CORRECTIONS

**CEILING DETAILS** 

I-09.2



JAKCHII ECI

Amadi Aesthetics
Plastic Surgery

Floor 1 7800 SE 27th Street Mercer Island, WA 98040

DESIGN JPC
DRAWN ED/RB
CHECKED CB
NO. 22-0394



06.15.23 PERMIT SET

07.19.23 DOH SUBMITTAL

08.23.23 PRICING SET

109.29.23 PERMIT CORRECTIONS

JURISDICTION STAMP

CASEWORK DETAILS

I-09.3.1

# Amadi Aesthetics

Plastic Surgery Floor 1 7800 SE 27th Street Mercer Island, WA 98040

> JPC ED/RB CHECKED CB 22-0394

MARK A. PETERSON STATE OF WASHINGTON

06.15.23 PERMIT SET 07.19.23 DOH SUBMITTAL 08.23.23 PRICING SET ↑ 09.29.23 PERMIT CORRECTIONS

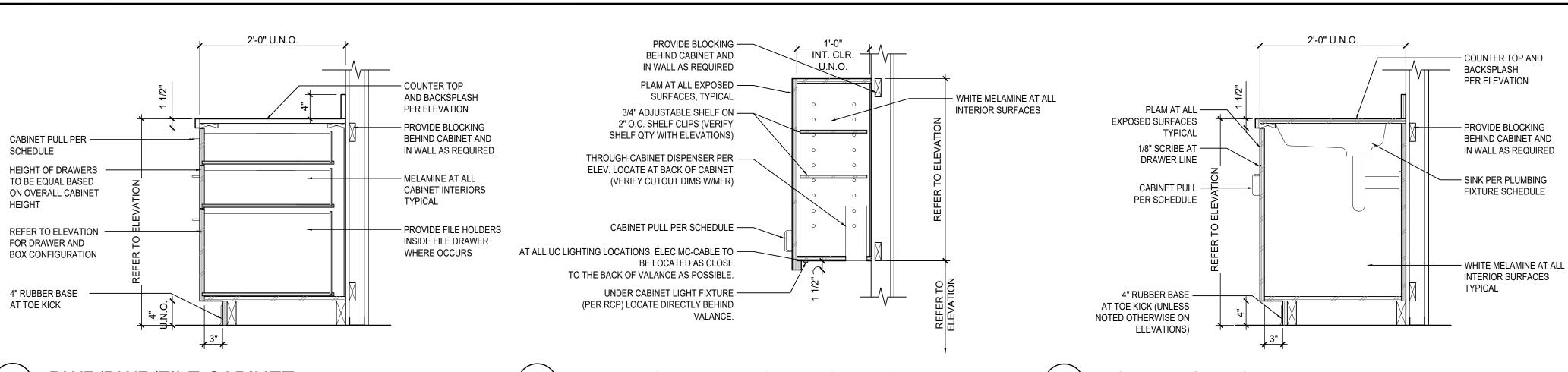
JURISDICTION STAMP

CASEWORK **DETAILS** 

I-09.3.2

© 2018, JPC ARCHITECTS, LLC

LOCKERS AND UPPER STORAGE CABINET



DWR/DWR/FILE CABINET

UPPER CABINET W/ PT DISPENSER

NON-ADA SINK CABINET

BASE CABINET WITH DRAWER

DRAWER STACK BASE CABINET

SCALE: 1"=1'-0"

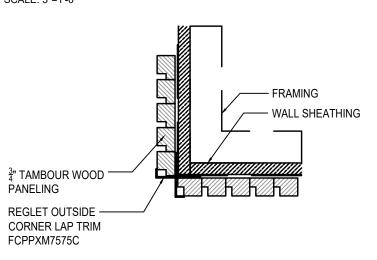
MICROWAVE SHELF

WORKSURFACE

BASE CABINET AT TRASH RECEPTACLE

**RECEPTION DESK - 42" HEIGHT** 

**RECEPTION DESK - 30" HEIGHT** 



DECORATIVE COLUMN TREATMENT

JPC STD.C		SCALE: 3'	'=1'-0"									
	HARDWARE SCHEDULE											
Pen Table:	NO.	TYPE	MANU.	MODEL	FINISH	LOCATION	COMMENTS					
	01	PULL	BERENSON	9014-4055-P	MATTE BLACK	CLINIC TYP., UON	REFER TO ELEVATIONS					
9/28/2023 3:35 PM	02	PULL	HAFELE (OR APPROVED EQUAL)	3" WIRE PULL	BRUSHED SILVER	ASF TYP., UNO	REFER TO ELEVATIONS					
Date/Time:	02	PULL	BERENSON	2363-1MDB-P	BRUSHED GOLD	RECEPTION, BEVERAGE 102 EXAM ROOMS	REFER TO ELEVATIONS					

**RECEPTION DESK** 

BASE CABINET & SHELVES AT DISPLAY

URISDICTION STAMP

USG MEXICO S A DE C V - 1/2 in. thick Type C, IP-X2, IPC-AR or, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or, 3/4 in. thick

5H. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 28 with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with

51. Gypsum Board\* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5

UNITED STATES GYPSUM CO — Type ULIX, ULX USG MEXICO S A DE C V - Type ULX

Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

5J. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in, wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

panels secured to studs with 1 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to study over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC.

the field. For 2 layer assemblies outer layer will be attached to study over inner layer with the 1-7/8 in. long steel screws spaced 8 in.

furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Single layer system with Type ULIX: 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer-1 in. long for 1/2 in., 5/8 in. thick panels,

5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from

b. Steel Framing Members\* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in, wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) dips for use with 2-23/32 in, wide furring channels.

and Steel Framing Members on only one side of studs as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in: OC perpendicular to studs, Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

KINETICS NOISE CONTROL INC — Type Isomax

alternate to Item 7, furring channels and Steel Framing Members as described below: Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with

PLITEQ INC - Type GENIECLIP

and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel

wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

b. Steel Framing Members\* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips

and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized

No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip

and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15  $\times$  1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.

b. Steel Framing Members\* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs pan-head self-drilling screw.

7G. Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in, wide by 7/8 in, deep, spaced max. 24 in, OC perpendicular to

b. Steel Framing Members\* — Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to study with No. 8  $\times$  1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

compound may be omitted when gypsum panels are supplied with a square edge.

9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties

application instructions supplied with the product. See Fiber, Sprayed (CCAZ). MERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plu 1L. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel 4C. Foamed Plastic\* — (Where Batts and Blankets\*, Item 4, are optional, for use with Item 5K) — Spray applied, foamed plastic insulation, at any

CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

1N. Framing Members\* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. OEG BUILDING MATERIALS — OEG Track

10. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel haped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5,

2B. Framing Members\* - Steel Studs - (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) - Proprietary channel shaped studs, 3-5/8 in, deep spaced a max of 24 in, OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in, gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper251M

MPERIAL MANUFACTURING GROUP INC — Viper20™

2D. Framing Members\* — Steel Studs — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20 CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20 QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20 SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20 STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. Framing Members\* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

DMFCWBS L L C - ProSTUD MBA METAL FRAMING - ProSTUD RAM SALES L L C - Ram ProSTUD

2F. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

2G. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.

2H. Framing Members\* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. TELLING INDUSTRIES L L C — TRUE-STUD™

21. Framing Members\* — Steel Studs —

dicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

EB METAL INC - NITROSTUD

than assembly height. OLMAR SUPPLY INC - PRIMESTUD

2M. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2N. Framing Members\*— Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less RESCUE METAL FRAMING, L L C - AlphaSTUD

20. Framing Members\* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. Framing Members\* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.

2Q. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 10, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper X

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in, OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets\* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in, thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC

CGC INC -- 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in.

4B. Fiber, Sprayed\* — (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber

material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the

thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth

4D. Foamed Plastic\* — (Where Batts and Blankets\*, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+,

5. Gypsum Board\* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered

staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need

**Gypsum Board Protection on Each Side of Wall** 

& Thkns

of Pane

1 layer, 5/8 in. thick

1 layer, 3/4 in. thick

2 layers, 1/2 in, thick

2 layers, 5/8 in, thick

1 layer, 3/4 in. thick

3 layers, 1/2 in. thick

2 layers, 3/4 in. thick

3 layers, 5/8 in. thick

4 layers, 5/8 in. thick

4 layers, 1/2 in. thick

Thkns of

(Item 4)

Insulation

Optional

1-1/2 in.

Optional

Optional

Optional

Optional

Optional

not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Depth, in.

Items 2, 2C, 2D, 2F, 2G, 2O

over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems)

FE137®, FE158®, Spraytite® 158, Spraytite® SP and Spraytite® 81205

1-5/8

1-5/8

1-5/8

1-5/8

1-5/8

1-5/8

1-5/8

or, 3/4 in. thick Types IP-X3 or ULTRACODE When Item 7B, Steel Framing Members\*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of

insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item

5A. Gypsum Board\* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6 CGC INC — Type SHX.

UNITED STATES GYPSUM CO - Type FRX-G, SHX. USG MEXICO S A DE C V — Type SHX.

5B. Gypsum Board\* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12). RAY-BAR ENGINEERING CORP - Type RB-LBG

5C. Gypsum Board\* — (For Use With Item 28) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in.

from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to

CGC INC — Type SCX, ULIX. THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO - Type SCX UNITED STATES GYPSUM CO - Type SCX, SGX, ULIX.

be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. Gypsum Board\* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only. CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX USG BORAL DRYWALL SFZ LLC - Type USGX

USG MEXICO S A DE C V — Type USGX

5E. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel study Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and aggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. NEW ENGLAND LEAD BURNING CO INC. DBA NELCO - Nelco

5F. Gypsum Board\* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in. THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO - 5/8 in. thick Type SCX, SGX, ULIX USG BORAL DRYWALL SFZ LLC - 5/8 in. thick Type SCX, SGX

5G. Gypsum Board\* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or apered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. /ertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO - 1/2 in. thick Types C and 5/8 in. thick SCX UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or, 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE USG BORAL DRYWALL SFZ LLC - 1/2 in, Type C; 5/8 in, Types C, SCX, SGX, ULTRACODE

#### shaped runners, 1-1/4 in, wide by min. 3-1/2 in, deep fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with asteners spaced 24 in. OC max. RESCUE METAL FRAMING, L L C - AlphaTRAK

1M. Framing Members\* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1K. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel

shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with

2A. Steel Studs — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in, min depth, spaced a max of 16 in, OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

CRACO MFG INC - SmartStud25<sup>th</sup>

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25TM IMPERIAL MANUFACTURING GROUP INC - Viper25™

C. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as ndicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

Design No. **U419** 

Nonbearing Wall Ratings - 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification

(such as Canada), respectively.

September 5, 2022

1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosionprotected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in.

1A. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channe shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1B. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track MARINO/WARE DIV OF WARE INDUSTRIES INC — Viner20™ Track

1C. Framing Members\* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20 CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20 SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20 STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20 TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosionprotected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners

1E. Framing Members\* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. CLARKDIETRICH BUILDING SYSTEMS - CD ProTRAK

DMFCWBS L L C - ProTRAK MBA METAL FRAMING - ProTRAK RAM SALES L L C - Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C - Tri-S ProTRAK

SUPER STUD BUILDING PRODUCTS — The Edge

TELLING INDUSTRIES L L C -- TRUE-TRACKT

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1F. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in, OC max.

1G. Framing Members\* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max. STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

11. Framing Members\* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in.

1J. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper X Trac

fasteners spaced 24 in. OC max.

spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper2011 MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper2014

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CLARKDIETRICH BUILDING SYSTEMS - CD ProSTUD

STEEL STRUCTURAL PRODUCTS L L C- Tri-S ProSTUD

STUDCO BUILDING SYSTEMS — CROCSTUD

2J. Framing Members\* — Metal Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as

2L. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less

MARINO/WARE, DIV OF WARE INDUSTRIES INC - StudRite™

4A. Batts and Blankets\* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

5K. Gypsum Board\* — (As an alternate to Item 5 when Foam Plastic insulation (Item 4C) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsun

5L. Gypsum Board\* — (As an alternate to Item 5 when Foam Plastic insulation (Item 4D) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to study (Item 2) or

spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in.,

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7 furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75). 7B. Framing Members\* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels

 Steel Framing Members\* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels

7C. Framing Members\* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an a, Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs.

b. Steel Framing Members\* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

7D. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels

7E. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels

steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E. b. Steel Framing Members\* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with

 $7F. \textbf{Steel Framing Members*} \ -- (Optional on one or both sides, not shown, for single or double layer systems) \ -- Resilient channels of the steel of the s$ 

with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint

attached to each stud with steel screws, not more than each sixth course of brick. 10. Caulking and Sealants\* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for UNITED STATES GYPSUM CO - Type AS

# CEMCO, LLC — Viper20™ Track

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

<u>Design Criteria and Allowable Variances</u> See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. **U465** 

August 18, 2023

Nonbearing Wall Rating — 1 HR. Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certificatio

1. Floor and Ceiling Runners — (Not Shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

3A. Fiber, Sprayed\* — As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft<sup>3</sup>. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft $^3$ , in accordance with the application instructions supplied with the product. Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

3B. Fiber, Sprayed\* — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. NU-WOOL CO INC — Cellulose Insulation

3C. Fiber, Sprayed\* — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft<sup>3</sup>. INTERNATIONAL CELLULOSE CORP — Celbar-RL

3D. Batts and Blankets\* — For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners. See **Batts and Blankets** (BZJZ) category for names of manufacturers.

3E. Batts and Blankets\* — For use with Item 4R and 4S. Placed in stud cavities, any min. 3-1/2 in, thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

3G. Foamed Plastic\* — As an alternate to Batts and Blankets (Item 3), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFG

3H. Foamed Plastic\* — As an alternate to Batts and Blankets (Item 3), for use with Item 4W — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, and Walltite® XL

4. Gypsum Board\* — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When Steel Framing Members\* (Item 6 or any alternate clips) are used, gypsum board is screw attached to

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, LightRoc BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-

furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

 ${\bf NATIONAL\ GYPSUM\ CO-Type\ FSLX}.$ 

edges of the wall for both vertical and horizontal applications.

4S. Gypsum Board\* — As an alternate to Item 4. For use with Item 3E, Batts and Blankets\* — 5/8 in. thick, 4 ft wide, installed as described in Item 4A. CERTAINTEED GYPSUM INC - Type CLLX.

4T. Wall and Partition Facings and Accessories\* — (As an alternate to 5/8 in. thick board as outlined in Item 4) — Nominal 1-3/8 in. thick. 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

4U. Gypsum Board\*— (As an alternate to Item 4 when Foam Plastic insulation Item 3G is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC.

4V. Gypsum Board\* — (As an alternate to Item 4, for 1 hr. rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in, long Type S steel screws 12 in, OC along vertical edges and in the field. Screws spaced a max 12 in, along the top and bottom

CERTAINTEED GYPSUM INC — Type X-1, SilentFX, GlasRoc, Type C

4W. Gypsum Board\*— (As an alternate to Item 4 when Foam Plastic insulation Item 3H is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in

5. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6. Resilient Channel — (Optional — Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in, OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F, 4J or 4L.

6A. Steel Framing Members\* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap,

with one screw on each flange of the channel. Not for use with Items 4F, 4J, or 4L.

e. Framing Members\* — Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in, wide furring channels, RSIC-1 (2.75) clip for use with 2-23/32 in, wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

1A. Framing Members\* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 1 — Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max. ALL STEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30FOD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20 QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20 STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

**TELLING INDUSTRIES L L C** — Type SUPREME D24/30EQD and Type SUPREME D20 UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

18. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channe shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in, OC max.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. Floor and Ceiling Runners — (Not Shown) — For use with Item 2C — Channel shaped, fabricated from min 20 MSG corrosionprotected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in, OC.

1D. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1C — For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK MBA METAL FRAMING — ProTRAK RAM SALES L L C — Ram ProTRAK STEEL STRUCTURAL PRODUCTS L L C - Tri-S ProTRAK

1E. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1D — For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners. 1-1/4 in, deep by min 3-5/8 in, wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners spaced 24 in, OC max. KIRII (HONG KONG) LTD — Type KIR

1G. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max.

STUDCO BUILDING SYSTEMS — CROCSTUD Track

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, Type X-1, Type C, 5/8" Easi-Lite Type X, Easi-Lite Type X-2, Type LWTX

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, Veneer Plaster Base - Type X, Water Rated Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-LWX, Soffit-Type DGLW, Sheathing Type-LWX, Sheathing Type-LWX, Soffit-Type DGLW, Sheathing Type-LWX, Sheath DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with

Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW-C, FSW-G, FSW-3, FSW-5, FSW-6, FSW-8, FSL, RSX,

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS, PGI

PANEL REY S A — Types GREX, GRIX, PRC, PRC2, PRX, RHX, MDX, ETX, PRX2 SAINT-GOBAIN GYPROC MIDDLE EAST FZE - Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX, (Joint tape and compound

Item 5, optional for use with Type USGX) **USG BORAL DRYWALL SFZ LLC** — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX) USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for

4A. **Gypsum Board\* —** (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to stee studs and floor runner with 1 in, long Type S steel screws spaced 8 in, OC when applied horizontally, or 8 in, OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to

be installed horizontally. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter **CERTAINTEED GYPSUM INC** — Type X-1, Type C, Type EGRG/ GlasRoc, GlasRoc-2, Type SilentFX, Easi-Lite Type X-2

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD

SAINT-GOBAIN GYPROC MIDDLE EAST FZE - Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C

GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

6B. Framing Members\* — — (Optional on one or both sides, Not Shown, As an alternate to Item 6) — Furring channel and Steel Framing Members as described below

secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip

6C. Steel Framing Members\* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel

wire.Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L. b. Steel Framing Members\* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

6D. Steel Framing Members\* — (Optional, Not Shown As an alternate to Item 6) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized

b. Steel Framing Members\* — UUsed to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No.8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip

6E. Steel Framing Members\* — (Optional, Not Shown As an alternate to Item 6) — Resilient channels and Steel Framing Members as a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. Steel Framing Members\* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in, coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

described below: a Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in, galy steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100 IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

11. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2H, proprietary channel haped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with asteners spaced 24 in. OC max MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1J. **Framing Members\* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 — For use with Item 2 L, proprietary channel shaped runners, 1-1/4 in, deep by min 3-5/8 in, wide fabricated from min 0.018 in, thick galv steel, attached to floor and ceiling with fasteners spaced 24 in, OC max. RESCUE METAL FRAMING, L L C - AlphaTRAK

1K, Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channel shaped runners, 1-1/4 in, wide by min 3-5/8 in, deep, fabricated from min 25 MSG (0.018 in, min, bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in, OC max. CEMCO, LLC — Viper X Track

1L. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CRACO MFG INC — SmartTrack20

1M. Framing Members\* - Floor and Ceiling Runners - Not shown - In lieu of Items 1 through 1L - For use with Item 2O, proprietary channel shaped runners, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. PANEL REY S A - SUPRA Track 20/33 mil

1N. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 – For use with Item 2P, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24

PANEL REY S A - SUPRA Track 20EQ/19 mil

use with Type USGX)

CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

ORGIA-PACIFIC GYPSUM L L C — Type DGG, GreenGlass Type X

vertical edges and in the field, and 16 in. OC along top and bottom of wall.

USG MEXICO S A DE C V — Types AR, IP-AR

in, OC along top and bottom of wall.

NATIONAL GYPSUM CO — Type SBWB

RAY-BAR ENGINEERING CORP — Type RB-LBG

CERTAINTEED GYPSUM INC — Type LGFC6A, LGFC-C/A

CGC INC — Type SCX, ULIX

NATIONAL GYPSUM CO — Types FSW

UNITED STATES GYPSUM CO — Type SCX, ULIX

**HOMASOTE CO** — Homasote Type 440-32

BLUE RIDGE FIBERBOARD INC — SoundStop

2. Steel Studs — Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut

2A. Framing Members\* — Steel Studs — As an alternate to Item 2 — Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

4C. Gypsum Board\* — As an alternate to Items 4, 4A, and 4B — Nom. 5/8 in, thick gypsum panels, with square edges, applied

4D. Gypsum Board\* — As an alternate to Items 4, 4A, 4B, and 4C — Nom. 5/8 in. thick gypsum panels applied vertically or

butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing.

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C

horizontally, Gypsum panels fastened to framing with 1 in, long bugle head steel screws spaced a max 8 in, OC, with last 2 screws 3/4

in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal

horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and

framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field, and 12 in. along the top and bottom of the

wall. When used in widths other than 48 in., gypsum panels to be installed horizontally. When studs (Item 2) spaced a max 16 in. OC,

5/8 in, thick gypsum panels applied vertically or horizontally, 1 in, long spaced 16 in, OC along vertical edges and in the field, and 16

horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to

4E. Gypsum Board\* — (As an Alternate to Items 4 through 4D) – Installed as described in item 4, 5/8 in, thick, 4 ft wide, applied

max 16 in. OC, 5/8" in. thick gypsum panels applied vertically or horizontally with 1 in. long Type S steel screws spaced 16 in. OC along

4F. Gypsum Board\* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct

4G. Gypsum Board\* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached

field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using ULIX, panels need not be

to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the

attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges,

applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board

secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for USG BORAL DRYWALL SFZ LLC — Type SCX

4H. Gypsum Board\* — (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and 4B. Gypsum Board\* — (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw secured as described in Item 4. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

> 4l. **Gypsum Board\*** — (As an alternate to Items 4 through 4F) — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. When using ULIX, panels need not be staggered in horizontal pplications and screw spacing can be increased to 12 in. OC in field and perimeter. CGC INC — Types SCX, ULIX

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

**CEMCO, LLC** — Viper $20^{\text{\tiny TM}}$ 

than assembly height.

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

TELLING INDUSTRIES L L C — TRUE-STUD™

KIRII (HONG KONG) LTD — Type KIRII

STUDCO BUILDING SYSTEMS — CROCSTUD

CRACO MFG INC — SmartStud20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

5/8 to 3/4 in. less than assembly height. See materials in Item(s) 4 that require Item 2C studs.

shaped studs, minimum 3-5/8 in, wide, Studs to be cut 1/2 in, less than the assembly height

2B. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel

2C. Steel Studs — (As an alternate to Item 2, For use with Item 1C) — Channel shaped, fabricated from min 20 MSG corrosion protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut

2D. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2C — For use with Item 1D and 4G only, channel

shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less

2E. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped

2F. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

2G. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 through 2F — For use with Item 1G. Proprietary channel

2H. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 11, proprietary channel shaped steel

studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly

studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than

studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly

UNITED STATES GYPSUM CO — Types SCX, ULIX **USG BORAL DRYWALL SFZ LLC** — Type SCX

4J. Gypsum Board\* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) — Nom 5/8 in, thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A) MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4K. Gypsum Board\* — (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A. CGC INC — Type ULX

USG MEXICO S A DE C V — Type ULX

4L. Gypsum Board\* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in, long Type S-12 steel screws gypsum panel steel screws spaced 8 in, OC at perimeter and 12 in, OC in the field, Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. Gypsum Board\* — (For use with Item 8) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in Type G Screws spaced 8 in OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. AMERICAN GYPSUM CO — Type AG-C

99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed

9A. Lead Batten Strips — (Not Shown, for use with Item 4J) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4E) — Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

1. Adhesive — Not Shown — (For use with Item 8) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in.

2. Wall and Partition Facings and Accessories\* — (CLBV) (Optional, Not Shown) — For use with Items 1 to 11, Items 2 to 2J, Item 3, ltems 4 to 4I, Item 5 and Item 6. For maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 4 to Item 4l), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional layer of Gypsum Board that is identical to the one used in the first layer and as specified in Item 4 to Item 4I shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to Item 4I except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in

On the other side of the wall, prior to the installation of the Gypsum Board, install Resilient Channels as per Item 6. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with min. 1-1/4 in. long drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 4 to Item 4I with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the required layer(s) of UL Classified

Alternately, on the other side of the wall prior to the installation of the Gypsum Board, install 3/4 in. thick SONOpan panels, secured to one side of studs either horizontally or vertically. Panels secured to each stud with min. 1-1/4 in, long drywall screws spaced 12 in. OC. Over the SONOpan, install 25 MSG galv steel, Resilient Channels, spaced vertically 24 in. OC. Resilient Channels fastened through panels to each stud with min. 2 in. long drywall screws or self-tapping screws. Over the Resilient Channels install Gypsum Board as specified in Item 4 to Item 41 with the specified drywall screws. Panels not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. MSL — RefleXor membrane, SONOpan panel

**CLARKDIETRICH BUILDING SYSTEMS** — Barrier Mesh, Barrier Mesh Clips

MARINO/WARE DIV OF WARE INDUSTRIES INC — Viner20™

2l. Framing Members\* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height. EB METAL INC — NITROSTUD

2J. Framing Members\* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height. OLMAR SUPPLY INC — PRIMESTUD

2K. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in, less than assembly height MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite<sup>TM</sup>

2L. Framing Members\* — Steel Studs — As an alternate to Items 2 — For use with Item 1J, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. RESCUE METAL FRAMING, L L C — AlphaSTUD

2M. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1K, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/4 in. less in length than assembly height. CEMCO, LLC — Viper X

2N. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1L, proprietary channel shaped steel studs. 1-1/4 in, wide by min 3-5/8 in, deep fabricated from min 0.020 in, thick galy steel. Studs cut 3/4 in, less in length than assembly CRACO MFG INC — SmartStud207

20. Framing Members\* - Steel Studs - Not Shown - In lieu of Items 2 through 2N - For use with Item 1M, proprietary channel shaped steel studs, min 1-5/8 in, wide by min 3-5/8 in, deep fabricated from min 20 MSG galv steel (0.0329 in, min bare metal thickness) spaced 24 in, OC max, Studs cut 3/4 in. less in length than assembly height. PANEL REY S A - SUPRA Stud 20/33 mil

2P. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 – For use with Item 1N, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep with 1/4 in. return lips fabricated from min 0.019 in. thick galv steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

 $\textbf{3. Batts and Blankets*} \ \ - \text{(Optional)} \ \ - \text{Mineral wool or glass fiber batts partially or completely filling stud cavity.}$ See Batts and Blankets (BZJZ) category for names of Classified companies

**ROCKWOOL** — Type AFB, min. density 1.69 pcf / 27.0 kg/m<sup>3</sup>

CERTAINTEED GYPSUM INC — Type C

PANEL REY S A - SUPRA Stud 20EQ/19 mi

CGC INC — Types C, IP-X2, IPC-AR CERTAINTEED GYPSUM INC — Type LGFC-C/A GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C PABCO BUILDING PRODUCTS L L C. DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Types PRC, PRC2 SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C, M2Tech Type UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX **USG BORAL DRYWALL SFZ LLC** — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types ULIX

4N. Wall and Partition Facings and Accessories\* — (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. PABCO BUILDING PRODUCTS L L C. DBA PABCO GYPSUM — Type QuietRock 527

40. **Gypsum Board\*** — As an alternate to Items 4, 4A, 4B, and 4C — Two layers Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal joints on the same side need not be staggered. When applied horizontally, both layers of gypsum board fastened to each side of framing with 1 in, long Type S steel screws spaced 8 in, OC and staggered 4 in, OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and botto NATIONAL GYPSUM CO — Type FSW

4P. **Gypsum Board\*** — As an alternate to Item 4. Nom 5/8 in. thick, 4 ft wide, Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing, Panels attached to steel studs and runners with 1 in, long Type S steel screws spaced 12 in, OC when applied horizontally or vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. CGC INC — Type ULIX

4Q. **Gypsum Board\*** — 3/4 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track as described in Item 4 with screw PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

4R. Gypsum Board\* — As an alternate to Item 4D. For use with Item 3E, Batts and Blankets\* — 5/8 in. thick, 4 ft wide, installed as described in Item 4. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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**Plastic Surgery** Floor 1

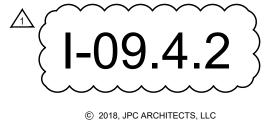
7800 SE 27th Street Mercer Island, WA 98040

> **DESIGN** DRAWN CHECKED 22-0394



06.15.23 PERMIT SET 07.19.23 DOH SUBMITTAL 08.23.23 PRICING SET ↑ 09.29.23 PERMIT CORRECTIONS

URISDICTION STAMP



a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to stude as described in Item b. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. Steel Framing Members\* — Used to attach furring channels (Item 6Ba) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

6F Steel Framing Members\* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on

b Steel Framing Members\* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6F. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. Steel Framing Members\* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC., and secured to studs with

No. 10 x 2 in. screw through the center hole. Furring channels are friction fit into clips.

MASON INDUSTRIES INC — Type CWC-50 7. Wall and Partition Facings and Accessories\* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recomm When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastene

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510 8. Mineral and Fiber Board\* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in

long Type S steel screws, spaced 12 in, OC and 24 in, OC along all intermediate framing. The required UL Classified gypsum board

layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.

length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified

8A. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 4). Fiber boards installed with 1-1/4 in. long, Type S steel screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 4) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. Not evaluated for use with Item 4M.

8B. Mineral and Fiber Board\* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer is to be installed over the Mineral and Fiber Boards and secured to study with length of fasteners increased by 1/2 in over the length specified for installation of the gypsum boards. Batts and Blankets, Item 3, are optional unless otherwise required. Not for use with Items 4F, 4J, 4L, and 4M.

9. Lead Batten Strips — (Not Shown, For Use With Item 4E) — Lead batten strips, min 1-1/2 in, wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints.

the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4J) and optional at remaining stud locations.

10A. Lead Discs — (Not Shown, for use with Item 4J) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or

wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8).

 $Studs\ less\ than\ 0.033\ inches\ in\ thickness,\ use\ self-piercing\ screws.\ For\ Steel\ Studs\ equal\ to\ or\ greater\ than\ 0.033\ inches\ in\ thickness,\ use\ self-piercing\ screws.$ use steel drill screws (self-tapping). Gypsum Board (Item 4) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on

3. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel

UL DESIGN NO. U465

SECTION A

- 1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
- 2. OPENING TO BE "FRAMED OUT" WITH LIGHTGAGE STEEL STUDS (MIN. 3-1/2" WIDE).

FRONT VIEW

- 3. PENETRATING ITEMS TO BE ONE OR MORE OF THE FOLLOWING: MAXIMUM 2" NOMINAL DIAMETER STEEL CONDUIT.
- MAXIMUM 2" NOMINAL DIAMETER EMT. 4. HILTI CP 620 FIRE FOAM INSTALLED FLUSH WITH BOTH SURFACES OF THE WALL:

CONDUITS THROUGH RATED WALL

UL/cUL SYSTEM NO. W-L-1054

METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

T-RATING = 0-HR.

L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT. L-RATING AT 400°F = 4 CFM/SQ. FT.

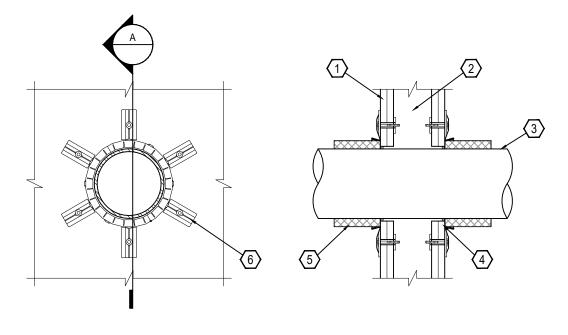
- MAXIMUM 4-3/4" THICKNESS, FOR A 1-HR. FIRE-RATING. MAXIMUM 6" THICKNESS, FOR A 2-HR. FIRE-RATING.
- MAXIMUM SIZE OF OPENING = 30" X 12".

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

ANNULAR SPACE BETWEEN PIPES = MINIMUM 0", MAXIMUM 3-3/8". ANNULAR SPACE BETWEEN PIPES AND PERIPHERY OF OPENING = MINIMUM 0",

#### UL SYSTEM NO. W-L-2078 PLASTIC PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY F-RATING = 1-HR. OR 2-HR.

T-RATING = 1-HR. OR 2-HR.



1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING)

**SECTION A** 

(NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" X 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.

PENETRATING ITEMS TO BE ONE OF THE FOLLOWING (SEE NOTE #3 BELOW): MAXIMUM 6" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE). MAXIMUM 6" NOMINAL DIAMETER ABS PLASTIC PIPE (CELLULAR OR SOLID CORE).

MAXIMUM 6" NOMINAL DIAMETER FRPP PLASTIC PIPE. MAXIMUM 6" NOMINAL DIAMETER CPVC PLASTIC PIPE.

SEE NOTE #1 BELOW.

FRONT VIEW

HILTI CP 642 OR HILTI CP 643 FIRESTOP COLLAR (SEE TABLE BELOW). FASTEN EACH MOUNTING TAB TO WALL ASSEMBLY WITH APPROPRIATE HILTI ANCHORS.

NOM. PIPE DIA.	PRODUCT DESCRIPTION	NO. OF MOUNTING TABS	MAX. HOLE SIZE
1-1/2"	CP 643 50/1.5"	2	2-1/8"
2"	CP 643 63/2"	2	2-5/8"
3"	CP 643 90/3"	3	4"
4"	CP643 110/4"	3	5"
6"	CP642 160/6"	6	7"

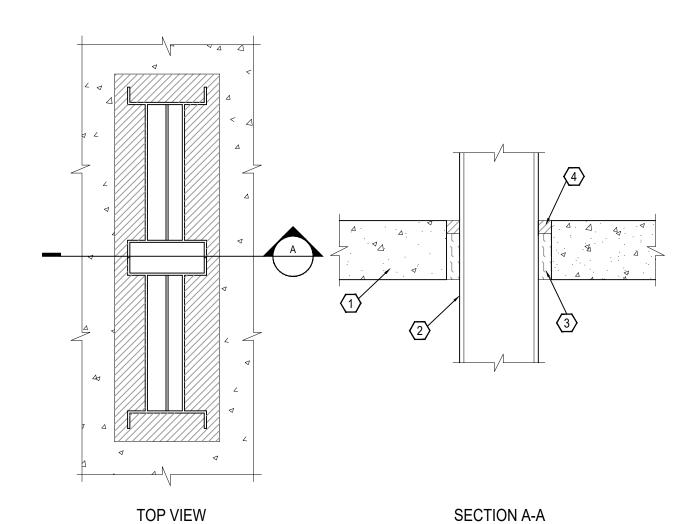
1. TO IMPEDE COLD SMOKE, PROVIDE 1/4" DEPTH HILTI FS-ONE INTUMESCENT FIRE-STOP SEALANT IN ANNULAR SPACE AROUND PLASTIC PIPE.

ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/2". CLOSED OR VENTED PIPING SYSTEM. (PVC, ABS, FRPP = SCH. 40, CPVC = SDR 17).

# PLASTIC PIPE THROUGH RATED WALL

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

UL/cUL SYSTEM NO. CAJ6017 ELECTRICAL BUSWAY THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL T-RATING = 0-HR.



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).

2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.

3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:

MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER). MAXIMUM 30" DIAMETER CAST IRON PIPE.

MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE

MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT. E. MAXIMUM 4" NOMINAL DIAMETER

**SECTION A-A** 

4. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT : A. MINIMUM 5/8", FOR A 1-HR. FIRE-RATING. B. MINIMUM 1-1/4" DEPTH, FOR A 2-HR. FIRE-RATING.

5. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

MAXIMUM DIAMETER OF OPENING :

FRONT VIEW

A. 32-1/4" FOR STEEL STUD WALLS.

B. 14-1/2" FOR WOOD STUD WALLS. 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/2".

PIPE THROUGH RATED WALL

**ELECTRICAL BUS THRU RATED ASSEMBLY** 

A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN. 4-1/2" THICK).

ELECTRICAL BUSWAY (NOMINAL 26" WIDE BY 6" DEEP, OR SMALLER) ("I" SHAPED STEEL

MINIMUM 3-1/2" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.

1. MAXIMUM AREA OF OPENING IS 224 SQUARE INCHES WITH A MAXIMUM DIMENSION OF

MINIMUM 1" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON

ENCLOSURE CONTAINING FACTORY MOUNTED ALUMINUM BARS RATED FOR 600V OR 4000A).

1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR FIRE-RATING):

BOTH SIDES OF A WALL.

B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL

4. MINIMUM 1" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.

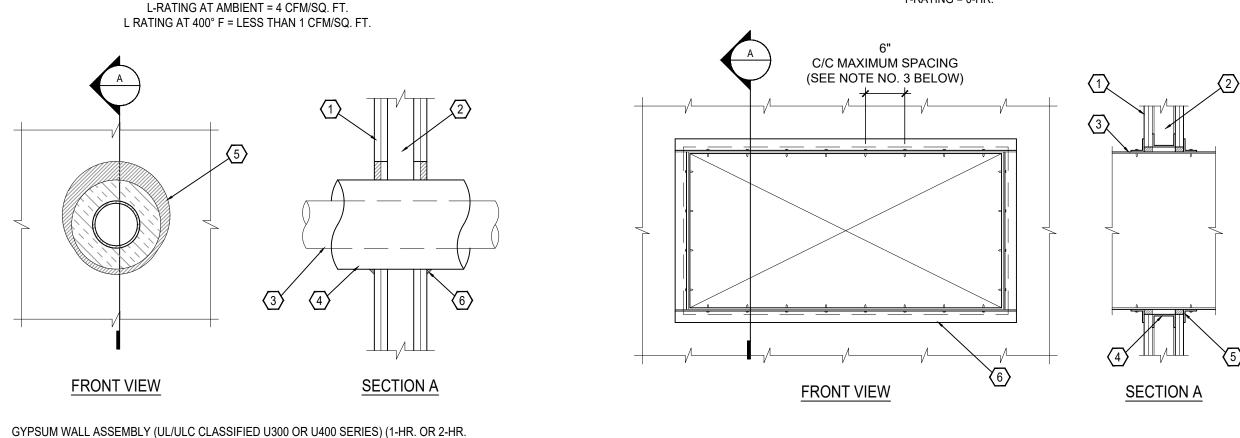
SCALE: 1'-0" = 1'-0"

**GROUP OF PENETRATIONS** 

VOIDS TO MAXIMUM EXTENT POSSIBLE.

THE HILTI FS 657 FIRE BLOCKS IN PLACE.

UL/cUL SYSTEM NO. W-L-7040 METAL DUCT (WITHOUT DAMPER) THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY F-RATING = 1-HR. OR 2-HR T-RATING = 0-HR.



UL/cUL SYSTEM NO. W-L-5029

INSULATED METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. AND 2-HR.

T-RATING = 1/2-HR., 3/4-HR., 1-HR. AND 1-3/4-HR. (SEE U.L. FIRE RESISTANCE DIRECTORY)

2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" X 4" LUMBER. STEEL STUDS TO BE

MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 20 OR HEAVIER).

MINIMUM 5/8" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.

MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT

UL/cUL SYSTEM NO. CAJ8056 MULTIPLE PENETRATING ITEMS THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN. 4-1/2" THICK).

ANY COMBINATION OF THE FOLLOWING CABLES MAY BE USED WITHIN THE CABLE TRAY

PENETRATING ITEMS TO BE ANY OF THE FOLLOWING: MAXIMUM 6" NOMINAL DIAMETER

MAXIMUM 2" CABLE BUNDLE TO BE A COMBINATION OF ANY OF THE FOLLOWING:

1. MAXIMUM AREA OF OPENING = 1296 SQUARE INCHES, WITH MAXIMUM

ANNULAR SPACE FOR CABLE TRAY = MINIMUM 1-1/2", MAXIMUM 4-1/2".

ANNULAR SPACE FOR PIPE AND CABLE PENETRATIONS = MINIMUM 1",

INTERSTICES OF CABLES, BETWEEN CABLES AND CABLE TRAY, AND ANY

WIRE MESH (NOT SHOWN). WHEN THE ANNULAR SPACE EXCEEDS 4-1/2",

A NOMINAL 2 IN. SQ., NO. 16 SWG WIRE MESH SHALL BE USED TO KEEP

4. MAXIMUM AREA OF CABLES EQUALS 30% OF CROSS-SECTIONAL AREA

APPLY HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT INTO

STEEL PIPE OR STEEL CONDUIT; MAXIMUM 6" NOMINAL DIAMETER CAST IRON PIPE; OR

F. 24 FIBER-OPTIC CABLE (MAX. 1/2" DIA.). 7. HILTI FS 657 FIRE BLOCK (2" THICK x 5" WIDE

L RATING AT AMBIENT = 5 CFM/SQ. FT.

SECTION A-A

L RATING AT 400° = 2 CFM/SQ. FT.

FIRE-RATING) (2-HR. SHOWN).

3. PENETRATING ITEMS TO BE ONE OF THE FOLLOWING:

MAXIMUM 4" NOMINAL DIAMETER EMT

MAXIMUM 2" THICK GLASS-FIBER PIPE INSULATION.

MAXIMUM DIAMETER OF OPENING = 18".

2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-7/8"

T-RATING = 0-HR.

MAXIMUM 3'0"

**TOP VIEW** 

(SEE NOTE NO. 4 BELOW):

1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR FIRE-RATING):

B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL

A. 7/C NO. 12 AWG COPPER CONDUCTOR CABLE. B. 24 FIBER-OPTIC CABLE (MAX. 1/2" DIAMETER).

C. MAX. 500 KCMIL SINGLE CONDUCTOR CABLE.

MAXIMUM 1-1/2" GLASS FIBER INSULATION.

B. 3/C NO. 8 ALUMINUM CLAD CABLE.

C. 25 PAIR NO. 24 AWG TELEPHONE CABLE.

A. 7/C NO. 12 AWG CABLE.

D. RG 62A COAXIAL CABLE.

E. ROMEX (2/C NO. 10 +GRND).

DIMENSION OF 36 INCHES

MAXIMUM 4-1/2".

OF CABLE TRAY.

x 8" DEEP, REF. TOP VIEW).

D. MAX. 300 PAIR NO. 24 AWG TELEPHONE CABLE.

MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE OR EMT.

MAXIMUM 18" x 6" ALUMINUM OR STEEL OPEN LADDER CABLE TRAY.

MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.

MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT

INSULATED PIPE THROUGH RATED WALL

MINIMUM 2-1/2" WIDE.

POINT OF CONTACT.

NOTE:

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

1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).

2. (NOT SHOWN), WOOD STUDS TO CONSIST OF NOMINAL 2" X 4" LUMBER, STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.

3. RECTANGULAR SHEET METAL DUCT (MAXIMUM SIZE: 24" X 48", MINIMUM 24 GA. THICKNESS). (NOTE: NOT FOR USE IN DUCT SYSTEMS CONTAINING A FIRE DAMPER)

4. OPENING TO BE "FRAMED OUT" WITH LIGHTGAGE METAL FRAMING STUDS. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT, HILTI CP 601S ELASTO-MERIC FIRESTOP SEALANT, OR HILTI CP 606 FLEXIBLE FIRESTOP SEALANT: A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING. B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING

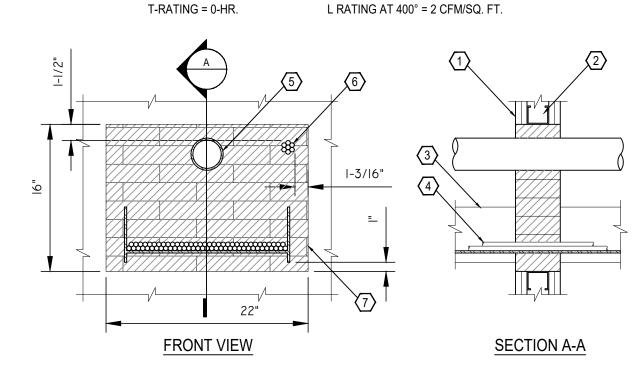
SEE NOTE #3 BELOW

1. MAXIMUM AREA OF OPENING = 1244 SQUARE INCHES WITH A MAXIMUM DIMENSION OF 49-1/4 INCHES.

ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 1 AFTER SEALING SPACE BETWEEN DUCT AND GYPSUM WALL ASSEMBLY WITH HILTI FIRESTOP SEALANT, FASTEN STEEL ANGLE (MINIMUM 1-1/2" X 1-1/2" X 16 GA.) TO DUCT WITH MINIMUM NO. 8 X 3/4" LONG SHEET METAL SCREWS. ANGLE DOES NOT HAVE TO BE FASTENED TO THE WALL ASSEMBLY.

# DUCT THROUGH RATED WALL

<sup>SCA</sup>MFULTIPLE PENETRATIONS THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY F-RATING = 1-HR. OR 2 HR. L RATING AT AMBIENT = 5 CFM/SQ. FT



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR.

FIRE-RATING) (2-HR. SHOWN). 2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.

3. OPEN LADDER CABLE TRAY (MAXIMUM 18" x 6", STEEL OR ALUMINUM). 4. ANY OF THE FOLLOWING CABLES MAY BE USED WITH MAXIMUM 30% FILL OF CABLE TRAY:

A. MAXIMUM 350 KCMIL SINGLE CONDUCTOR POWER CABLE.

B. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR CABLE.

C. MAXIMUM 100 PAIR NO. 24 AWG TELEPHONE CABLE. 5. MAX. 3" NOMINAL DIAMETER PVC PLASTIC PIPE (SCHEDULE 40) (CLOSED OR VENTED PIPING

SYSTEM) (SEE NOTE NO. 1 BELOW). 6. MAXIMUM 1-1/2" DIAMETER CABLE BUNDLE TO CONSIST OF ANY OF THE FOLLOWING:

A. MAX. 25 PAIR NO. 24 AWG TELEPHONE CABLE.

B. FIBER-OPTIC CABLE (24 FIBER). C. MAX. 7/C NO. 12 AWG COPPER CONDUCTOR.

D. RG 59 COAXIAL CABLE. 7. HILTI FS 657 FIRE BLOCKS (2" THICK x 8" WIDE x 5" DEEP, REFERENCE: FRONT VIEW).

1. (NOT SHOWN). PENETRATING ITEMS MAY ALSO INCLUDE A MAX. 6" NOM. DIA. STEEL PIPE, MAX. 6" NOM. DIA. STEEL CONDUIT; MAX. 4" NOM. DIA.

COPPER PIPE, OR MAX. 4" NOM. DIA. EMT. 2. (NOT SHOWN): MAX. 1-1/2" GLASS-FIBER INSULATION MAY BE USED ON ANY

OR ALL METALLIC PIPES. ANNULAR SPACE = MINIMUM 1", MAXIMUM 9-1/4".

APPLY HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND PENETRANTS, INTO INTERSITICES OF CABLES, BETWEEN CABLES AND CABLE TRAY, OR BETWEEN FIRE BLOCKS) TO

MAXIMUM EXTENT POSSIBLE.

# **GROUP OF PENETRATIONS**

Amadi Aesthetics

**Plastic Surgery** 

Floor 1 7800 SE 27th Street Mercer Island, WA 98040

**DESIGN** JPC DRAWN ED/RB CHECKED CB 22-0394



06.15.23 PERMIT SET 07.19.23 DOH SUBMITTAL 08.23.23 PRICING SET ↑ 09.29.23 PERMIT CORRECTIONS

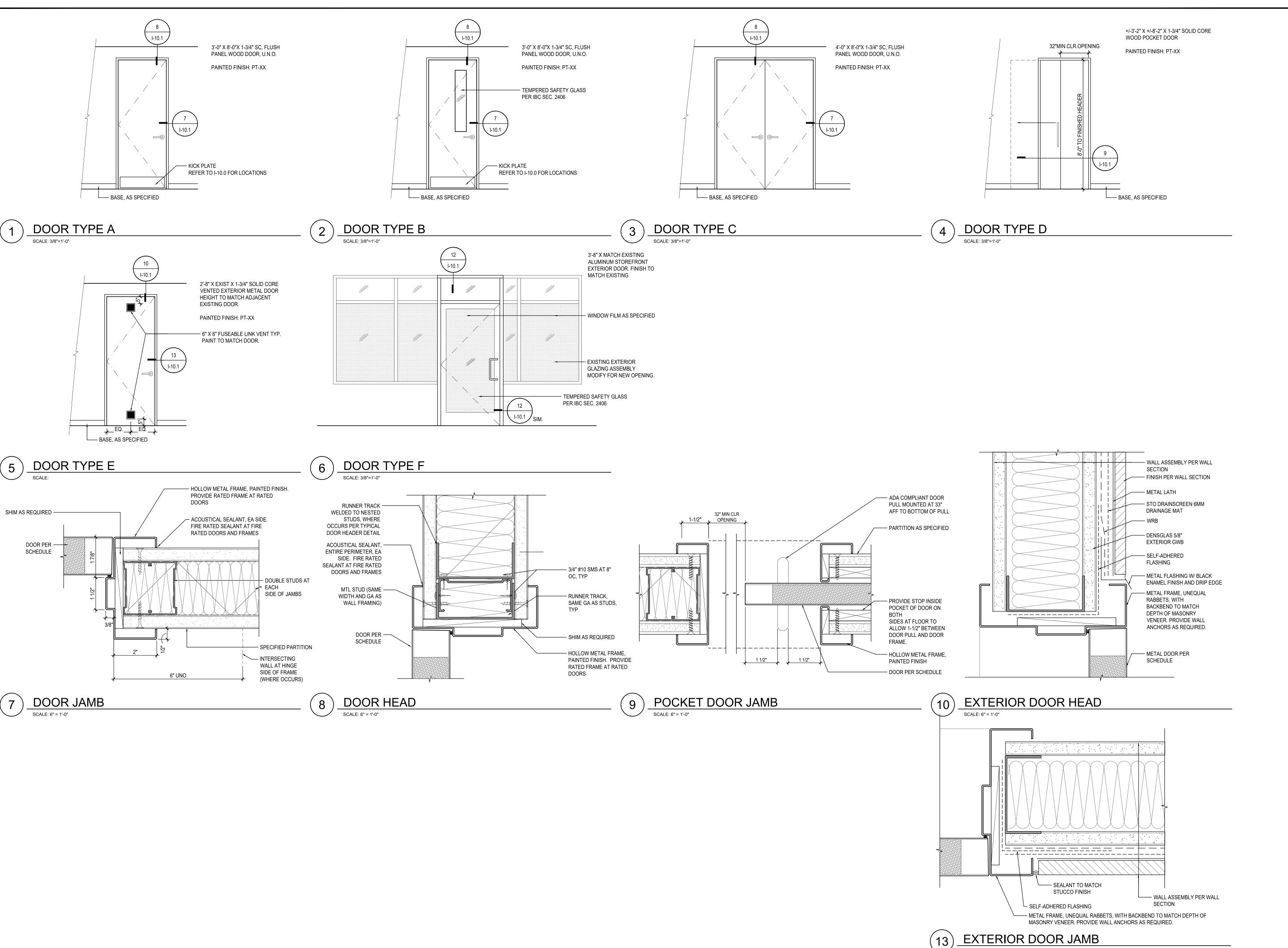
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FIRESTOPPING **DETAILS** 

1-09.5

11. IBC 404.2.8 DOOR OPENING FORCE. FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE MAXIMUM FORCE FOR PUSHING OPEN FOR PULLING OPEN DOORS OTHER THEN FIRE DOORS SHALL BE AS FOLLOWS: 1. INTERIOR HINGED DOOR: 5.0 POUNDS (22.2 N) 2. SLIDING OR FOLDING DOOR: 5.0 POUNDS (22.2 N). THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION.

I-10.0



PC ARCHITECT

S

Amadi Aesthetics

Plastic Surgery Floor 1 7800 SE 27th Street

Mercer Island, WA 98040

DESIGN JPC
DRAWN ED/RB
CHECKED CB
NO. 22-0394



06.15.23 PERMIT SET

07.19.23 DOH SUBMITTAL

08.23.23 PRICING SET

09.29.23 PERMIT CORRECTIONS

JURISDICTION STAMP

DOOR ELEVATIONS & DETAILS

I-10.1

LIVE LOADS
IN ADDITION TO THE DEAD LOADS, THE FOLLOWING FLOOR LIVE LOADS WERE USED FOR DESIGN, LIVE LOAD REDUCTION IS PER IBC SECTION 1607.11.

REDUCIBLE UNREDUCIBLE

CORRIDORS, STAIRS

50 PSF + 15 PSF PARTITION LOAD X EXTERIOR BALCONIES, DECKS 1.5 TIMES THE LIVE LOAD FOR THE AREA SERVED, NOT REQUIRED TO **EXCEED 100 PSF** 

REFER TO TABLE 1607.1 IN THE IBC FOR RELEVANT CONCENTRATED LIVE LOADS.

SEISMIC LOADS

EARTHQUAKE DESIGN IS BASED ON THE SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS IN ASCE 7 SECTION 13 WITH THE FOLLOWING FACTORS:

SITE CLASS C RISK CATEGORY II SEISMIC DESIGN CATEGORY D  $I_e = 1$  $S_s = 1.392 g$  $S_1 = 0.485 g$  $S_{DS} = 1.113 g$  $S_{D1} = 0.485 g$  $T_L = 6$  SECONDS

WIND LOADS
WIND LOAD IS DETERMINED USING CHAPTERS 26-31 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 WITH THE FOLLOWING FACTORS:

**RISK CATEGORY 11**  $K_{zt} = 1.0$  $K_e = 1.0$ EXPOSURE CATEGORY B V = 98 MPH  $V_{asd} = 76 MPH$ 

DESIGN WIND PRESSURES FOR DETERMINING FORCES ON COMPONENTS AND CLADDING SHALL BE DETERMINED USING CHAPTER 30 OF ASCE 7 IN ACCORDANCE WITH IBC SECTION 1609 BY THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN OF SUCH ELEMENTS, UNLESS NOTED OTHERWISE ON THE

PER IBC SECTION 107.3.4.1. DRAWINGS AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN AND SHALL BE SUBMITTED TO THE ARCHITECT AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION.

#### **GENERAL NOTES**

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING: CONCRETE OR MASONRY REINFORCEMENT, PRECAST OR PRESTRESSED CONCRETE ITEMS, EMBEDDED STEEL ITEMS, STRUCTURAL STEEL, STEEL JOISTS, STEEL DECK, SHEAR STUD LAYOUT, METAL GRATING, GLUED-LAMINATED MEMBERS, CLADDING PANELS AND STAIRS.

IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN.

#### NONSTRUCTURAL COMPONENTS

DESIGN, DETAILING AND ANCHORAGE OF ALL NONSTRUCTURAL COMPONENTS NOT INCLUDED IN THESE STRUCTURAL DOCUMENTS SHALL BE IN ACCORDANCE WITH IBC SECTION 1613, ASCE 7 CHAPTER 13, AND THE PROJECT SPECIFICATIONS, NONSTRUCTURAL COMPONENTS DESIGNED BY OTHERS SHALL NOT INDUCE TORSIONAL LOADING INTO SUPPORTING STRUCTURAL MEMBERS WITHOUT ADDITIONAL BRACING OF THOSE MEMBERS TO ELIMINATE TORSIONAL FORCES. TORSIONAL BRACING SHALL BE DESIGNED BY THE NONSTRUCTURAL COMPONENT DESIGNER AND APPROVED BY THE ENGINEER.

DESIGN, DETAILING AND CONSTRUCTION OF ALL NONSTRUCTURAL COMPONENTS WHICH ATTACH TO MORE THAN ONE LEVEL OF THE STRUCTURE SHALL THE FOLLOWING RELATIVE MOVEMENTS BETWEEN LEVELS WITHOUT DAMAGE TO THE NONSTRUCTURAL COMPONENTS:

VERTICAL DEFLECTION OF ±1.5 INCH DUE TO VARIABLE LIVE LOADS

SPECIAL INSPECTION PER IBC CHAPTER 17 SHALL BE PERFORMED BY AN APPROVED TESTING AGENCY AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTING. ALL PREPARED SOIL-BEARING SURFACES SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL. SOIL COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING AGENCY OR GEOTECHNICAL ENGINEER.

CONTRACTOR SHALL VERIFY ALL LEVELS, DIMENSIONS, AND EXISTING CONDITIONS IN THE FIELD BEFORE PROCEEDING. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR FIELD CHANGES PRIOR TO INSTALLATION OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS, THE CONTRACTOR SHALL OBTAIN DIRECTION FROM THE ARCHITECT BEFORE PROCEEDING. DIMENSIONS NOTED AS PLUS OR MINUS (±) INDICATE UNVERIFIED DIMENSIONS AND ARE APPROXIMATE. NOTIFY ARCHITECT IMMEDIATELY OF CONFLICTS OR EXCESSIVE VARIATIONS FROM INDICATED DIMENSIONS. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS--DO NOT SCALE DRAWINGS. DIMENSIONS OF EXISTING CONDITIONS ARE BASED ON RECORD DRAWINGS BY CT ENGINEERING, DATED 3/28/07 AND ARE TO BE FIELD-VERIFIED BY THE CONTRACTOR.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS, EXISTING CONSTRUCTION AND SOIL EXCAVATIONS, AS REQUIRED, AND IN A MANNER SUITABLE TO THE WORK SEQUENCE. TEMPORARY SHORING AND BRACING SHALL NOT BE REMOVED UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND MATERIALS HAVE ACHIEVED DESIGN STRENGTH.

FIELD LOCATE REINFORCING BARS, TENDONS, AND EMBEDS AND PROVIDE A MINIMUM OF 3" CLEARANCE TO ALL CONCRETE CORES AND CUTS. NO REINFORCING BARS TENDONS, OR EMBEDS IN EXISTING CONSTRUCTION SHALL BE CUT UNLESS DIRECTED TO BY THE ARCHITECT OR AS SHOWN ON THE DRAWINGS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

#### CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF IBC CHAPTER 19.

CONCRETE MIXTURES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

	CONCRETE MIXTURES										
Ī	f'c	f'c TEST AGE EXPOSURE CLASS					USE				
	(PSI)	(DAYS)	F	S	W	С		USE			
	4,000	28	F1	S0	W1	C1	CURBS AND PADS				

CONCRETE MIXTURES SHALL CONFORM TO THE MOST STRINGENT REQUIREMENTS FOR EXPOSURE CLASSES SPECIFIED IN THE TABLE ABOVE AND ACI 318 TABLE 19.3.2.1.

WATER-REDUCING ADMIXTURES MAY BE INCORPORATED IN CONCRETE MIX DESIGNS, BUT SHALL CONFORM TO ASTM C 494, AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CaCl2 OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

WATER/CEMENTITIOUS MATERIALS RATIO SHALL BE MEASURED BY WEIGHT AND SHALL BE BASED ON THE TOTAL CEMENTITIOUS MATERIAL. WATER/CEMENTITIOUS MATERIALS RATIO AND WATER CONTENT SHALL BE DETERMINED BY THE SUPPLIER BASED ON STRENGTH REQUIREMENTS AND SHALL NOT EXCEED THE MAXIMUM WATER/CEMENTITIOUS MATERIAL RATIO AND/OR WATER CONTENT IF SHOWN ABOVE OR IN ACI 318 TABLE 19.3.2.1 FOR THE EXPOSURE CLASSES LISTED.

FIELD-MEASURED SLUMP SHALL CONFORM TO THE SUBMITTED CONCRETE MIX DESIGN. TOLERANCE OF SLUMP SHALL CONFORM TO ASTM C 94.

ALL CONCRETE SUBJECT TO EXPOSURE CLASSES F1, F2 OR F3 SHALL BE AIR ENTRAINED. AIR-ENTRAINING AGENTS SHALL CONFORM TO ASTM C 260. THE PERCENTAGE OF TOTAL AIR SHALL BE ACCORDING TO ACI 318 TABLE 19.3.3.1 WITH A FIELD TOLERANCE OF ±1.5 PERCENT BY VOLUME. THE PERCENTAGE OF TOTAL AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE FROM THE TRUCK.

THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR APPROVAL 2 WEEKS PRIOR TO PLACING ANY CONCRETE. THE MIX DESIGN SHALL BE IN CONFORMANCE WITH ACI 318, CHAPTER 19. THE SUBMITTAL SHALL INDICATE WHERE EACH CONCRETE MIX IS TO BE USED ON THE PROJECT. AS WELL AS THE MAXIMUM AGGREGATE SIZE OF EACH MIX. MAXIMUM AGGREGATE SIZE SHALL CONFORM TO THE PROJECT SPECIFICATIONS.

IF THE AIR TEMPERATURE WILL EXCEED 75 DEGREES F WITHIN 48 HOURS OF PLACING CONCRETE, A MOIST CURE SHALL BE APPLIED TO THE CONCRETE FOR A PERIOD OF 36 HOURS AFTER FINISHING CONCRETE SURFACES. REFER TO THE PROJECT SPECIFICATIONS FOR CURING REQUIREMENTS.

TYPE 1 SPLICE REQUIREMENTS

ASTM A 615, GRADE 60 SPECIAL DUCTILE QUALITY DEFORMED BARS ASTM A 706, GRADE 60 LOW ALLOY HEADED DEFORMED BARS ASTM A 970, HEAD TYPE HA

REINFORCING SHALL BE SUPPORTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS AND THE CRSI MANUAL OF STANDARD PRACTICE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI STANDARD OF PRACTICE AS OUTLINED IN ACI 315, "GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS".

LAP ALL REINFORCING BARS AS NOTED ON THE DRAWINGS. WHERE SPLICE LENGTH IS NOT SHOWN, USE TYPE Lb (Lbt FOR TOP BARS) SPLICE PER DEVELOPMENT AND SPLICE LENGTH SCHEDULE. TYPE 1 SPLICES SHALL DEVELOP 125 PERCENT OF THE YIELD CAPACITY OF THE SPLICED BARS IN BOTH TENSION AND COMPRESSION. TYPE 2 SPLICES SHALL DEVELOP THE SPECIFIED TENSILE STRENGTH OF THE SPLICED BARS IN TENSION IN ADDITION TO MEETING

REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS, UNLESS NOTED OTHERWISE

COVER PER DETAILS <u>USE</u> NONSTRUCTURAL SLABS

WELDING OF REINFORCING, WHERE APPROVED BY THE ARCHITECT, SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES AND PREHEATED IN ACCORDANCE WITH AWS D1.4. REINFORCING STEEL WELDING CODE. WELDERS AND WELDING PROCEDURES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.4. MATERIALS SHALL CONFORM TO THE

ASTM A 706, GRADE 60, LOW ALLOY REINFORCING BARS TO BE WELDED WELDING ELECTRODES E80XX

NONSHRINK GROUT
BASE PLATE GROUT SHALL BE NONSHRINK TYPE WITH MINIMUM fc = 8,000 PSI. ALL OTHER NONSHRINK GROUT SHALL HAVE MINIMUM f'c = 5,000 PSI.

#### **EPS GEOFOAM**

EXPANDED POLYSTYRENE GEOFOAM SHALL CONFORM TO ASTM D 6817 STANDARD SPECIFICATION FOR RIGID CELLULAR POLYSTYRENE GEOFOAM. THE GEOFOAM SHALL HAVE A MINIMUM COMPRESSIVE RESISTANCE OF 3.6 PSI AT 1% DEFORMATION (EPS 15)

#### **ANCHORS**

#### **POST-INSTALLED ANCHORS**

PROVIDE POST-INSTALLED ANCHORS AS SPECIFIED IN THESE DRAWINGS.

ADHESIVE REINFORCING DOWEL MATERIALS

ASTM A 615, GRADE 60 ASTM F 1554, GRADE 36 (CARBON STEEL) ASTM A193 B8M CLASS 1 (STAINLESS)

DEPTHS AS DEFINED IN THE ICC-ES OR IAPMO UES EVALUATION REPORTS. PROVIDE ANCHOR LENGTH AND HOLE PER EVALUATION REPORT TO ACCOMMODATE THE EFFECTIVE EMBEDMENT SPECIFIED IN THESE DRAWINGS. SEE DETAIL

ANCHOR EMBEDMENT DEPTHS LISTED SHALL BE CONSIDERED EFFECTIVE EMBEDMENT

MECHANICAL AND ADHESIVE ANCHORS SHALL BE ZINC PLATED CARBON STEEL UNLESS NOTED OTHERWISE. MECHANICAL AND ADHESIVE ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.

USE OF ALTERNATE PRODUCTS, OR OF POST-INSTALLED ANCHORS AT LOCATIONS NOT PROPOSED ANCHORS TO THE ARCHITECT WITH AN ICC-ES OR IAPMO UES REPORT VALID FOR THE 2018 IBC AND DOCUMENTATION SHOWING THAT THE ALTERNATE PRODUCTS USE IN CRACKED CONCRETE. WHERE ANCHORS RESIST SEISMIC LOADS OR SUSTAINED TENSION, SUBMITTED ICC-ES AND IAPMO UES REPORTS SHALL DEMONSTRATE THAT THE (AS APPLICABLE). DOCUMENTATION OF CAPACITY FOR ALTERNATE PRODUCTS MUST BE

ADHESIVES SHALL NOT BE INSTALLED PRIOR TO THE CONCRETE REACHING AN AGE OF 21 DAYS AS REQUIRED BY ACI 318.

ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE INSTALLED BY PERSONNEL CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT PROGRAM.

#### STRUCTURAL STEEL

#### REFERENCE SPECIFICATIONS

STRUCTURAL STEEL

HIGH STRENGTH BOLTS

AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL

**BUILDINGS**"

RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING

HIGH-STRENGTH BOLTS"

WELDING AWS D1.1. TYPICAL

AWS D1.3 FOR STEEL DECK AND COLD-FORMED FRAMING AWS D1.8 FOR SUPPLEMENTAL SEISMIC PROVISIONS

AWS PREQUALIFIED JOINT DETAILS

WELDER CERTIFICATION AMERICAN WELDING SOCIETY (AWS)

> WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO)

WIDE FLANGE SHAPES (W AND WT) ASTM A 992 PLATES (PL), BARS ASTM A 36 TYPICAL,

ASTM A 572 GRADE 50 WHERE NOTED

ANGLES (L), CHANNELS (C AND MC) ASTM A 36 STRUCTURAL TUBES (HSS) ASTM A 500, GRADE C STEEL PIPE ASTM A 53, GRADE B STRUCTURAL BOLTS ASTM F 3125, GRADE A 325

ANCHOR RODS ASTM F 1554, GRADE 36 UNLESS NOTED OTHERWISE THREADED RODS ASTM A 36, UNLESS NOTED OTHERWISE WELDING ELECTRODES 70 KSI, LOW HYDROGEN, TYPICAL

STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF IBC CHAPTER 22. ALL MEMBERS ARE TO BE ERECTED WITH NATURAL MILL CAMBER OR INDUCED CAMBER UP, UNLESS OTHERWISE NOTED ON THE PLANS. SUBSTITUTION OF MEMBER SIZES OR STEEL GRADE WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY THE ARCHITECT. A MINIMUM OF TWO BOLTS IS REQUIRED FOR ALL BEAM CONNECTIONS. ALTERNATIVE CONNECTIONS TO THOSE SHOWN ON THESE DRAWINGS WILL REQUIRE PRIOR APPROVAL BY THE ARCHITECT.

60 KSI, MINIMUM, STEEL DECK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES AND UNEQUAL PARTS.

# **DRAWING LIST**

STRUCTURAL NOTES AND DRAWING LIST STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS

FRAMING PLAN

**DETAILS** S-04.1

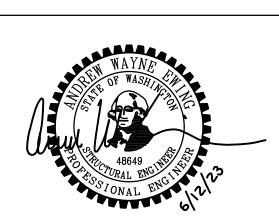
**Amadi Aesthetics Plastic Surgery** 

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STRUCTURAL NOTES AND DRAWING LIST

ADHESIVE REINFORCING DOWELS (ARD) THREADED ARD

DO NOT DAMAGE EXISTING REINFORCEMENT. IF LOCATION OF REINFORCEMENT IS UNKNOWN, SCAN FOR EXISTING REINFORCING STEEL PRIOR TO DRILLING.

SHOWN IN THESE DRAWINGS, IS SUBJECT TO THE APPROVAL OF THE ARCHITECT. SUBMIT PROVIDE EQUIVALENT CAPACITY FOR ALL CONDITIONS IN THIS PROJECT. SUBMITTED ICC-ES AND IAPMO UES REPORTS SHALL DEMONSTRATE THAT THE ANCHORS ARE SUITABLE FOR ANCHORS ARE SUITABLE FOR THE RESISTANCE OF SEISMIC LOADS OR SUSTAINED TENSION INCLUDED AS A DEFERRED SUBMITTAL..

#### **SPECIAL INSPECTIONS** AND TESTING SCHEDULE ESTABLISHED PER IBC 2018 SECTION 110 AND CHAPTER 17 ITEM IBC CODE COMMENTS CONCRETE POST-INSTALLED ADHESIVE ANCHORS POST-INSTALLED MECHANICAL ANCHORS **EMBEDDED PLATES**

1705.2

**FABRICATION AND ERECTION** 

HIGH STRENGTH BOLTING

STRUCTURAL STEEL

WELDING

SPECIAL INSPECTIONS AND TESTING NOTES: 1. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. INSPECTION REQUIREMENTS FOR SYSTEMS DESIGNED BY OTHERS SHALL BE DEFINED BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY TO ALL BIDDER-DESIGNED COMPONENTS.

STRUCTURAL STEEL AND CONNECTIONS SHALL BE FIREPROOFED WHERE REQUIRED BY THE ARCHITECT. PRIMARY AND SECONDARY STRUCTURE ARE TO BE AS DEFINED BY THE IBC. STRUCTURAL MEMBERS SHALL BE ASSUMED TO BE IN A THERMAL UNRESTRAINED CONDITION FOR THE PURPOSES OF DETERMINING FIREPROOFING THICKNESS. UL DESIGN SHALL BE IN ACCORDANCE WITH LRFD DESIGN METHODOLOGY.

WHERE SPRAY-APPLIED CEMENTITIOUS FIREPROOFING IS EXPOSED TO WEATHER, STRUCTURAL STEEL SHALL BE CONSIDERED EXPOSED TO WEATHER, AND SHALL BE PROTECTED ACCORDINGLY.

ALL COATINGS ARE TO FOLLOW THE SPECIFICATIONS AND PRODUCT MANUFACTURER'S

#### **WELDING**

ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS, AND SHALL BE PERFORMED BY AWS-WABO-CERTIFIED WELDERS. ONLY WELDS THAT ARE PREQUALIFIED, AS DEFINED BY AWS, OR QUALIFIED BY TESTING SHALL BE USED. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. WELDS SHOWN ON THE DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON THICKNESS. MINIMUM WELD SIZE SHALL BE 3/16-INCH, UNLESS NOTED OTHERWISE. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD SYMBOLS ARE SHOWN WHERE FIELD WELDS ARE REQUIRED BY THE STRUCTURAL DESIGN. WHERE FIELD WELD IS NOT INDICATED, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD-WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL ERECTION.

ARCH BLDG BM

ADD'L

ADH

ADJ

AFF

ANCH

**AESS** 

BEAM BOTTOM CAST-IN-PLACE COMPLETE JOINT PENETRATION CL CENTERLINE CLR CLEAR CONC CONCRETE CONN CONNECTION CONT CONTINUOUS

**ANCHOR BOLT** 

ADDITIONAL

**ADJUSTABLE** 

ARCHITECTURALLY EXPOSED

STRUCTURAL STEEL

**ARCHITECTURAL** 

ABOVE FINISH FLOOR

ADHESIVE

ANCHOR

**BOTTOM OF** 

BUILDING

CTR CENTER DBA DEFORMED BAR ANCHOR DCW DEMAND CRITICAL WELD DEMO DEMOLISH DET DETAIL DIAMETER DIAGONAL DITTO **DEFORMED WIRE FABRIC** DRAWING

DOWEL EACH **ELEVATION EQUAL EQUIPMENT EACH SIDE EACH WAY EXISTING** FINISH FLOOR **FLANGE** FLOOR

FOB FACE OF BUILDING FEET **GAUGE** GALVANIZED **GENERAL** GRADE HOOK

HORIZ HORIZONTAL HOLLOW STRUCTURAL SECTION INTERNATIONAL BUILDING CODE INSIDE FACE **INTERIOR** LONG FACE HORIZONTAL LONG LEG HORIZONTAL LONG LEG VERTICAL LONGITUDINAL LOW POINT

MAX MAXIMUM MECH **MECHANICAL** MANUFACTURER MIN MINIMUM MISC MISCELLANEOUS NOM NOMINAL OPNG OPENING OPPOSITE

PARTIAL JOINT PENETRATION POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PT POST-TENSIONED REINFORCING

REM REMAIN(DER) REQ'D REQUIRED SCHED SCHEDULE SIM SIMILAR STD STANDARD STIFFENER STIRR STIRRUP STL STEEL STRUCT STRUCTURAL SUPP SUPPORT

T&B TOP AND BOTTOM TRANS TRANSVERSE TYP TYPICAL UNLESS NOTED OTHERWISE UT ULTRASONIC TESTING VERTICAL **VERIFY IN FIELD** W-SHAPE

W/O WITHOUT WELDED HEADED STUD WASHINGTON STATE BUILDING CODE **STEEL SYMBOLS** 

STEEL IN CROSS SECTION TOP OF STEEL ELEVATION CAMBER AT MID-SPAN **DEVIATION FROM** NUMBER OF STUDS TYPICAL SPECIAL MOMENT **BEAM SIZE RESISTING FRAME** COLUMN W24x55 [20] C 3/4" (-10") CONNECTION BELOW MOMENT OR TENSION **FULL HEIGHT** RESISTING PLATE CONNECTION CONNECTION -PENETRATION MEMBER OF THE SEISMIC FORCE-SPECIAL STUD RESISTING SYSTEM SPACING FOR GIRDERS -BRACED FRAME **BOT FLANGE ABOVE BEAM BRACE** BRACED SHOP WELDED FRAME BELOW CANTILEVER NUMBER OF BOLTS IN **SPECIAL CONNECTIONS** NUMBER OF BOLTS IN CONNECTION IF DIFFERENT FROM TYPICAL

SCHEDULE

**GENERAL SYMBOLS** 

(10)

PLAN

NORTH

S3.1

100'-0"

100'-0"

100'-0"

**GRID BUBBLE** 

SURFACE - STEPPED

SURFACE - SLOPE UP

SURFACE - SLOPE DOWN

SURFACE - SLOPE TWO WAYS

UNDISTURBED SOIL, COMPACTED SOIL, BACKFILL, OR ANY PREPARED SUBGRADE. SEE SPECIFICATIONS FOR TYPE OF MATERIAL AND PREPARATION METHOD.

**NORTH ARROW** 

STANDARD SECTION CUTS

**BUILDING SECTION CUTS** 

ELEVATION OF WALL OR FRAME

TOP OF PLYWOOD SPOT ELEVATION: TOP OF CONCRETE

TOP OF STEEL TOP OF CONCRETE ELEVATION

TOP OF STEEL ELEVATION

REFERENCE ELEVATION. REFER TO PLAN

UNLESS NOTED OTHERWISE. ELEVATION OF LEVEL

WORKPOINT

DIRECTION OF DOWNWARD SLOPE

DIRECTION OF SPAN

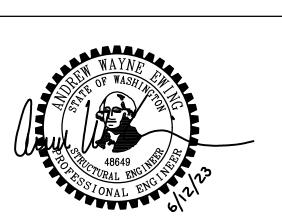
EXISTING FRAMING

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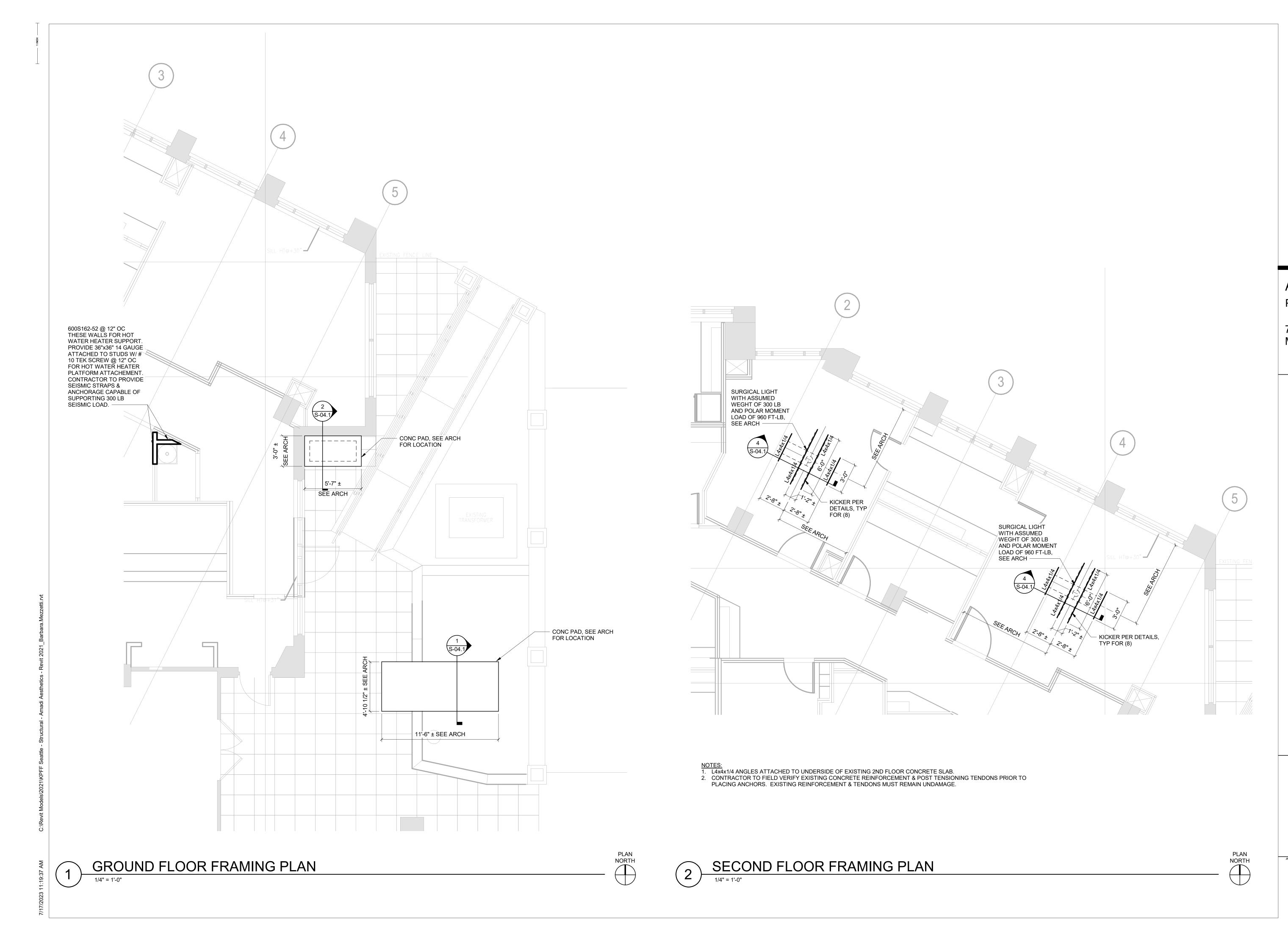
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STRUCTURAL NOTES, **ABBREVIATIONS AND SYMBOLS** 



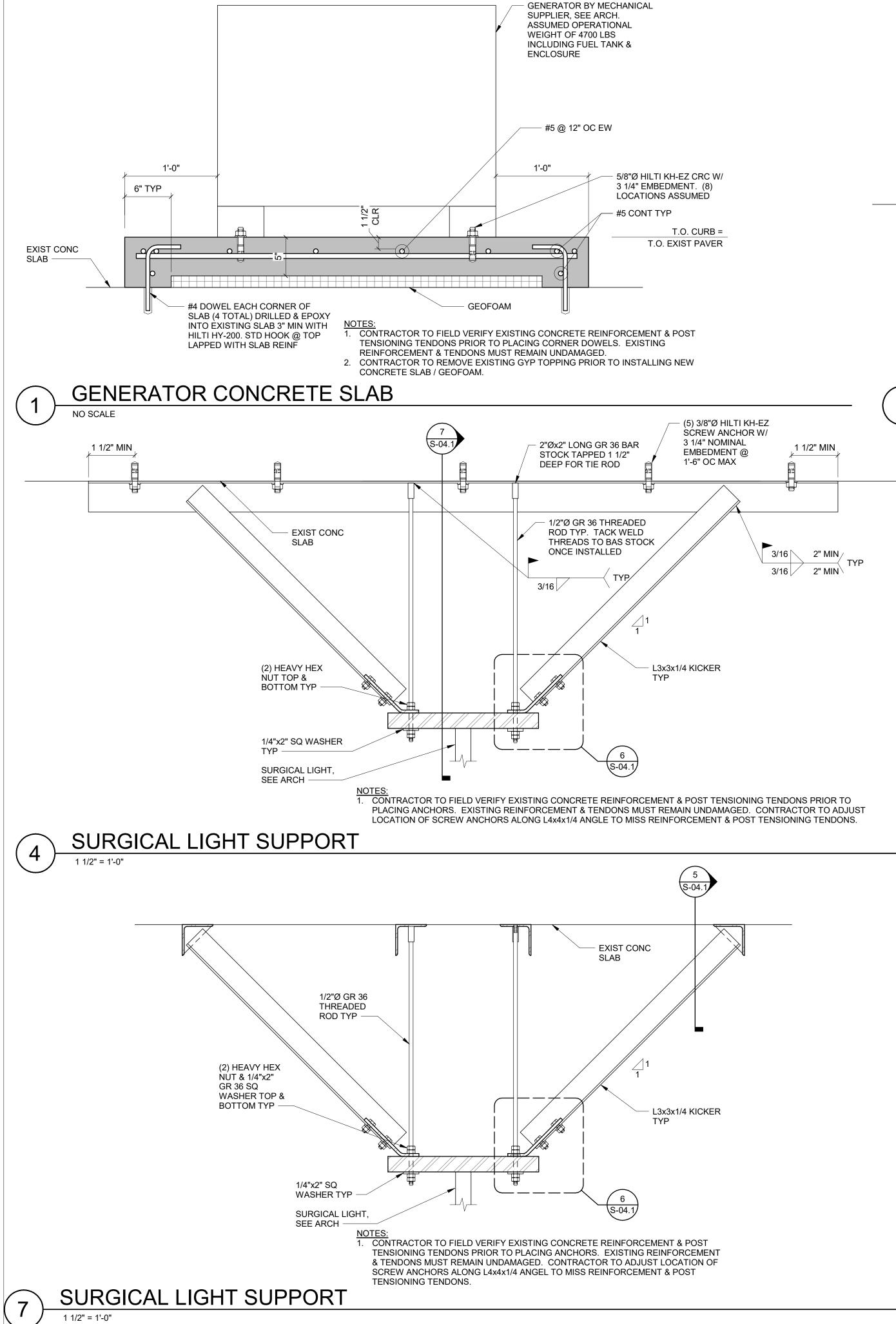
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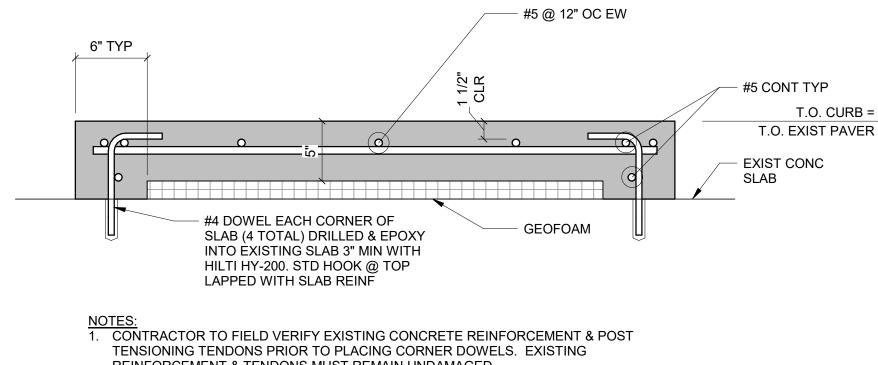
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FRAMING PLAN





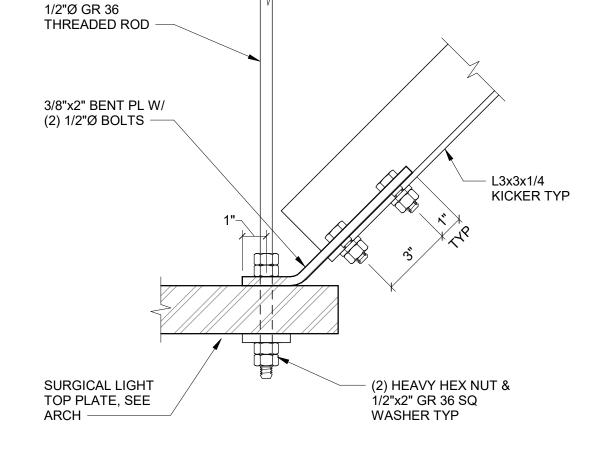
REINFORCEMENT & TENDONS MUST REMAIN UNDAMAGED. 2. CONTRACTOR TO REMOVE EXISTING GYP TOPPING PRIOR TO INSTALLING NEW

CONCRETE SLAB / GEOFOAM.

GAS STORAGE CONCRETE SLAB (3) 3/8"Ø HILTI KH-EZ SCREW ÀNCHOR W/ 3 1/4" NOMINAL EXIST CONC SLAB EMBEDMENT @ 1'-6" OC MAX L3x3x1/4 KICKER TYP -

> NOTES:
> 1. CONTRACTOR TO FIELD VERIFY EXISTING CONCRETE REINFORCEMENT & POST TENSIONING TENDONS PRIOR TO PLACING ANCHORS. EXISTING REINFORCEMENT & TENDONS MUST REMAIN UNDAMAGED. CONTRACTOR TO ADJUST LOCATION OF SCREW ANCHORS ALONG L4x4x1/4 ANGLE TO MISS REINFORCEMENT & POST TENSIONING TENDONS.

SURGICAL LIGHT SUPPORT



DETAILS

Amadi Aesthetics


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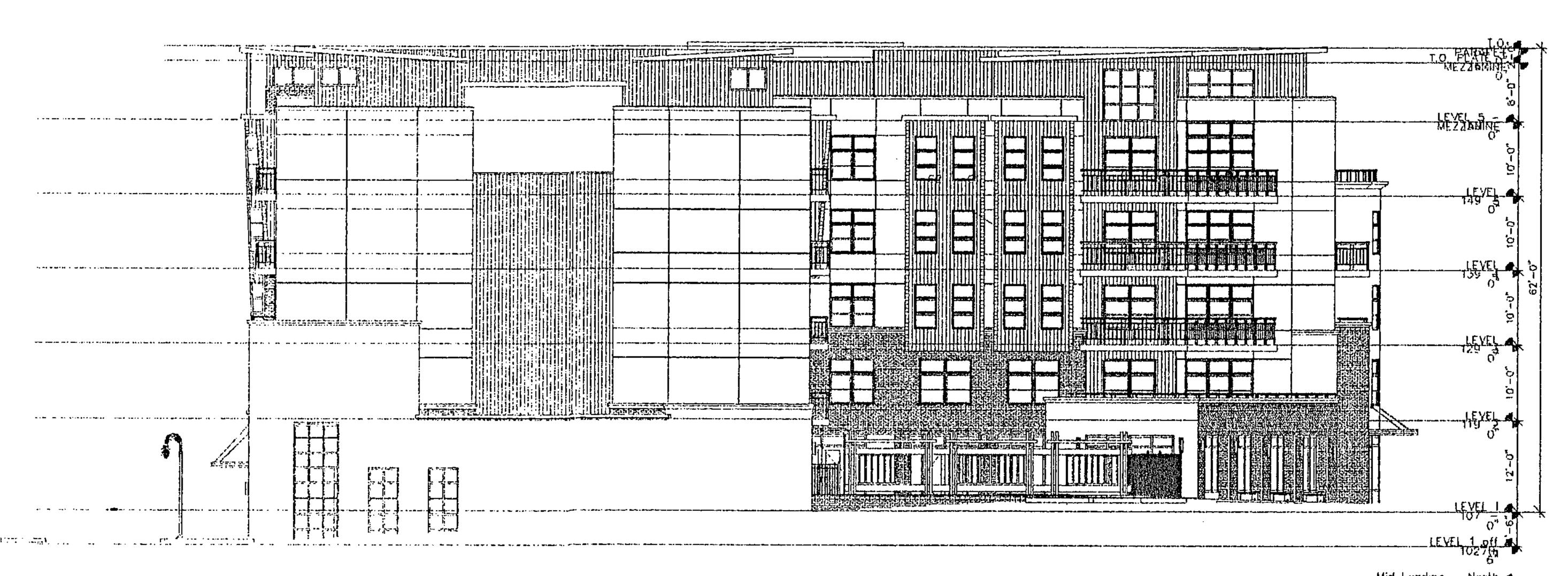
**DETAILS** 



Design Load Summary							
KEY	DESCRIPTION	LIVE LOAD	DEAD LOAD SW	DEAD LOAD WALLS	DEAD LOAD ADD'L	NOTE	
	ROOF LEVEL	25 PSF	35 PSF	10 PSF	<del></del>		
	L5 - MEZZANINE INTERIOR	40 PSF	130 PSF	10 PSF	10 PSF		
	L5 — MEZZANINE PAVERS/PLANTERS	60 PSF	250 PSF	25 PSF	10 PSF		
	L5 – MEZZ. ROOFING	25 PSF	90 PSF		10 PSF		
	RESIDENTIAL EXTERIOR DECKS	60 PSF	SLAB SW		20 PSF		
	COMMERCIAL/EXITS	100 PSF	SLAB SW	35 PSF	20 PSF		
	RESIDENTIAL LIVING	40 PSF	SLAB SW	35 PSF	20 PSF		
	PARKING	50 PSF	SLAB SW	<b>—,</b> —,	10 PSF		
	TRUCK ACCESS	250 PSF	SLAB SW	,—, v—, —,	75 PSF		
	LANDSCAPE	25 PSF	SLAB_SW		150 PSF		

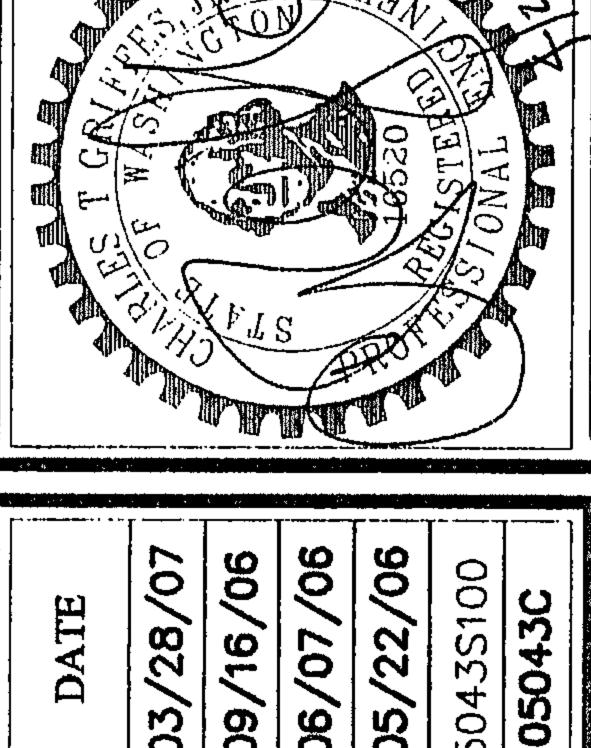
ALLOWABLE SUPER IMPOSED DEAD

GROSS WIND UPLIFT - 40 PSF ON ROOFING CONNECTIONS < 10 SF GROSS WIND UPLIFT - 25 PSF ON ELEMENTS > 10 SF < 50 SF GROSS WIND UPLIFT - 25 PSF ON ELEMENTS > 50 SF < 100 SF



DESCRIPTION	PRESSURE	NOTE
CLADDING CONNECTIONS (< 10 SF)	25 PSF INWARD/OUWARD	ALL SIDES
WALL ELEMENTS (>10 SF < 100 SF)	25 PSF INWARD/OUTWARD	ALL SIDES
GLAZING	25 PSF INWARD/OUTWARD	ALL SIDES

Wind Pressure Summary



# JPC ARCHITECTS

Amadi Aesthetics

Plastic Surgery Floor 1

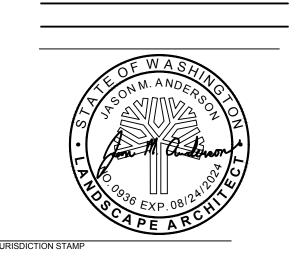
7800 SE 27th Street Mercer Island, WA 98040

DESIGN JA/MZ
DRAWN JA
CHECKED JA
NO. 22-0394

Design Two Four/Two Six

14835 161ST COURT SE RENTON, WA 98059-8819 ph. (425) 881-2426 cll. (206) 335-7719 www.design2426.com

Landscape Architecture ◆ Irrigation Planning ◆ Athletic Field Design ◆ Construction Management



DEMOLITION PLAN & LAYOUT PLAN

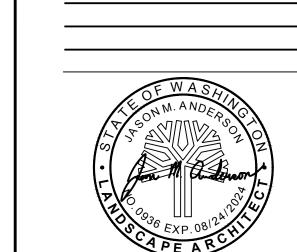
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Design Two Four/Two Six

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PLANTING PLAN, PLANTING SCHEDULE, & NOTES

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PLANT SCHEDULE <u>QTY</u> <u>CONT</u> <u>CAL</u> **TREES** BOTANICAL / COMMON NAME ACER PALMATUM 'SANGO-KAKU' / CORAL BARK JAPANESE MAPLE B & B 2" CAL. STREET TREE QUALITY COTINUS COGGYGRIA 'ANCOT' / GOLDEN SPIRIT SMOKE TREE B & B 1" CAL. STREET TREE QUALITY BOTANICAL / COMMON NAME FIELD2 <u>QTY</u> DAPHNE ODORA 'AUREOMARGINATA' / GOLD-EDGED WINTER DAPHNE 2 GAL EQUISETUM HYEMALE / HORSETAIL 1 GAL 12 HAKONECHLOA MACRA 'AUREOLA' / GOLDEN VARIEGATED FOREST GRASS 1 GAL 17 HOSTA X 'PATRIOT' / PATRIOT HOSTA

1 GAL

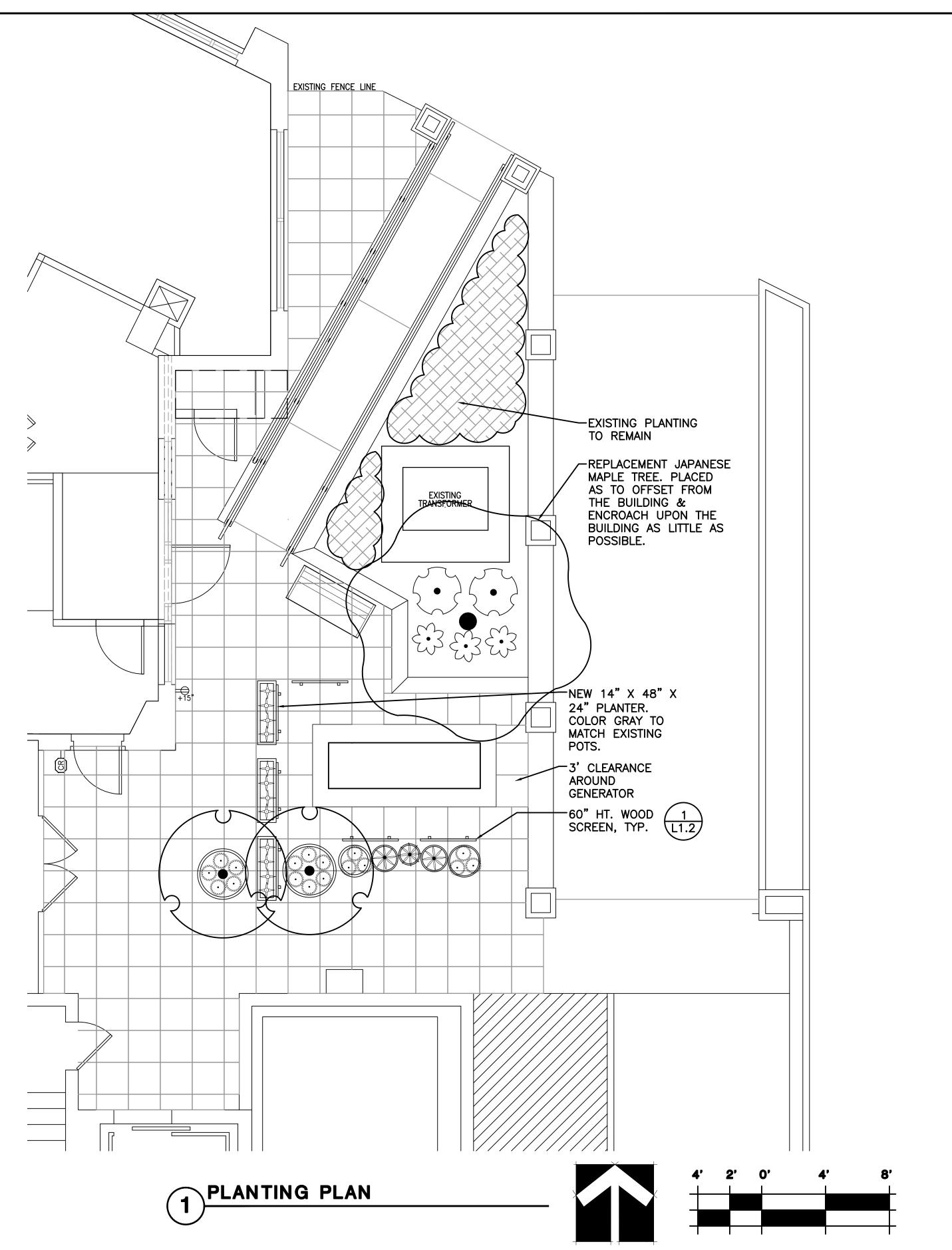
1 GAL

### **PLANTING NOTES**

1. ANY DISCREPANCIES WITH THE DRAWINGS AND/OR SPEC'S AND SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REP. PRIOR TO PROCEEDING WITH CONSTRUCTION.

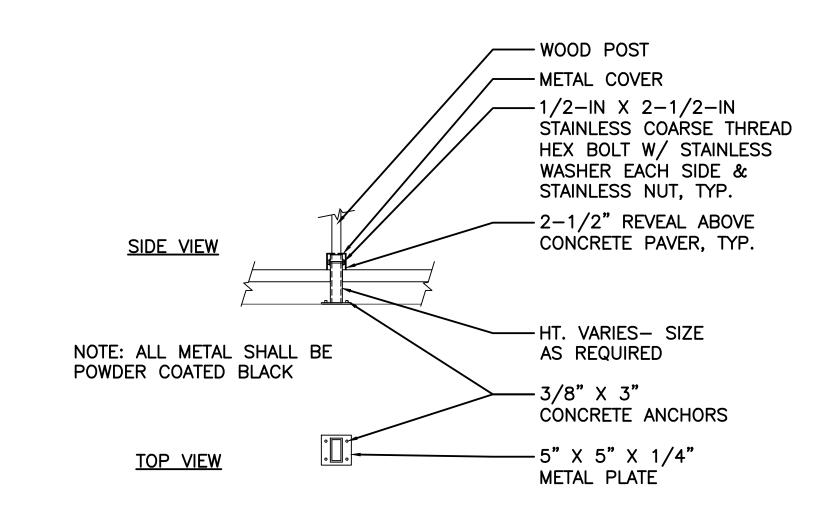
POLYSTICHUM POLYBLEPHARUM / JAPANESE TASSEL FERN

- 2. ALL MATERIALS TO BE DISPOSED OF OFFSITE ARE TO BE DISPOSED OF IN A LAWFUL LANDFILL AND IN ACCORDANCE WITH GOVERNMENT REQUIREMENTS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CALL DIAL—A—DIG 811 PRIOR TO DIGGING.
- 4. AVOID DAMAGE ABOVE AND BELOW GROUND TO EXISTING PLANT MATERIALS TO REMAIN.
- 5. PLANT MATERIAL LOCATIONS SHALL BE COORDINATED WITH SPRINKLER IRRIGATION HEAD LOCATIONS TO AVOID CONFLICTS.
- 6. ALL EXISTING LANDSCAPE PLANTING AREAS DISTURBED BY WORK DESCRIBED IN THESE DRAWINGS & SPECIFICATIONS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
- 7. ADJUST EXISTING IRRIGATION SYSTEM AS NEEDED TO MEET NEW CONDITIONS.
- 8. REINSTALL EXISTING RETAINING DRY STACK WALL SIMILAR TO PREVIOUS INSTALLATION.



**NORTH** 





1 SCREEN

PRECAST CONCRETE —

SLAB 2 3/8" X 23

TO MATCH EXISTING

5/8" X 23 5/8"

ADJUSTABLE -

ROOF DECK —

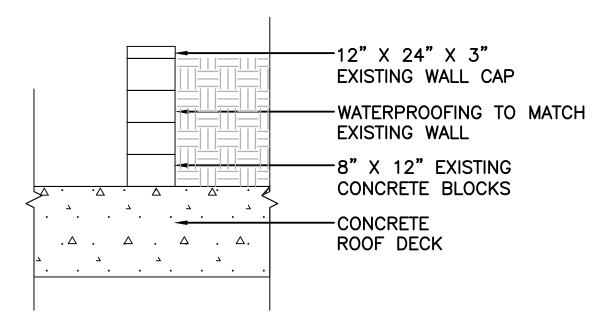
PEDESTAL

1. EXISTING CONCRETE BLOCK RETAINING WALL INSTALLATION IS NOT VISIBLE. COMPONENTS & ATTACHMENT ARE UNKNOWN. WILL NOT BE VISIBLE UNTIL DEMOLITION. INSTALLATION METHOD WILL BE REVISED AT THAT TIME.

2. INSTALLATION IS INTENDED TO MATCH EXISTING. 3. RE-USE STOCKPILED EXISTING CONCRETE

BLOCKS. 4. INSTALLATION TO BE COMPLETED IN

ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



3 PEDESTAL PAVERS

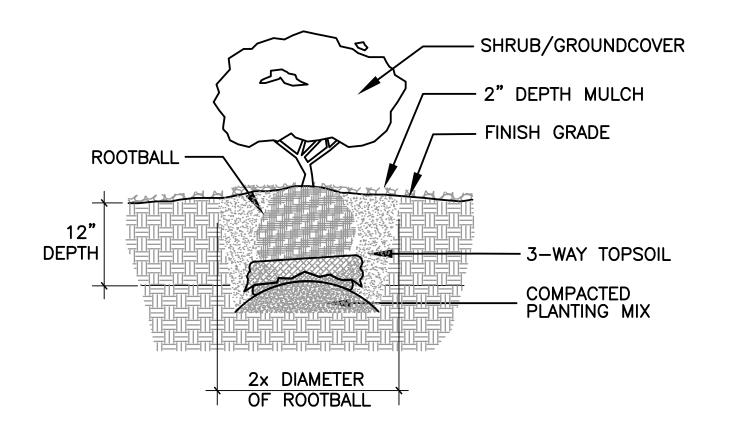
INSTALLATION TO BE

SPECIFICATIONS.

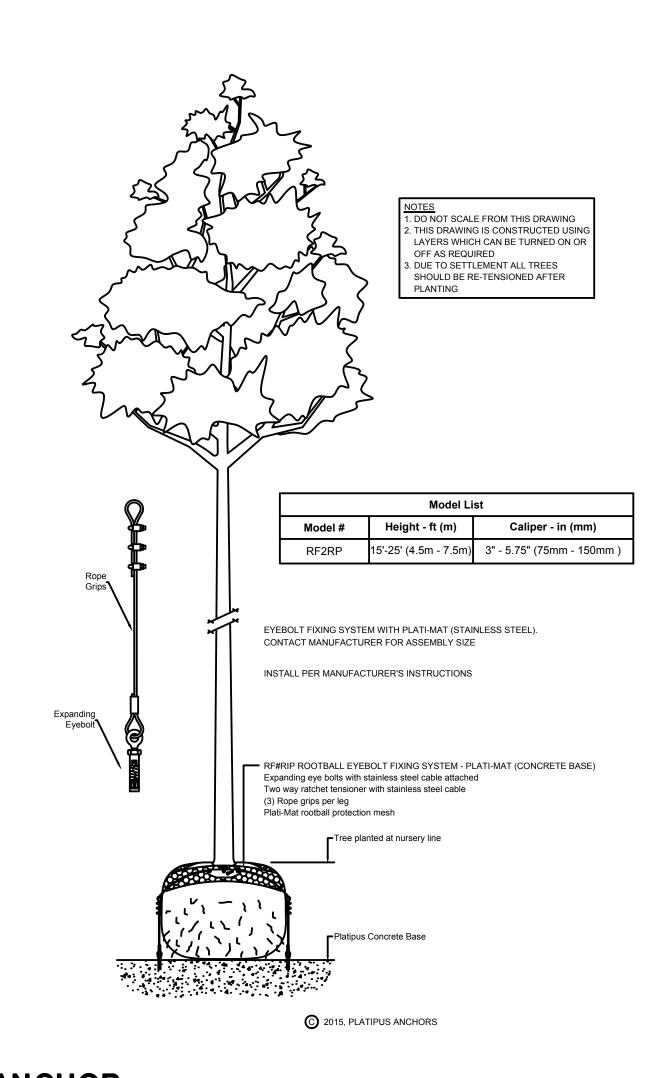
WITH MANUFACTURER'S

COMPLETED IN ACCORDANCE

4 CMU STACK WALL







5 TREE ANCHOR

## Amadi Aesthetics

Mercer Island, WA 98040

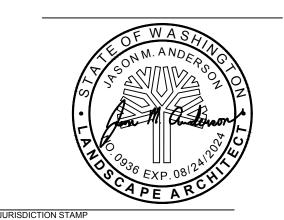
Plastic Surgery Floor 1 7800 SE 27th Street

> JA/MZ DRAWN JA CHECKED 22-0394

Design Two Four/Two Six

Landscape Architecture ◆ Irrigation Planning ◆ Athletic Field Design ◆ Construction Management

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**DETAILS** 

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SAMSUNG	VRF INDOOR DUCT	COIL SCHEDULE															
Tag Reference	Room(s) Served	Model	Refrigerant	CFM	Total MBH Cooling	Sensible MBH Cooling	Nominal Heating Capacity (BTU/h)	Туре	Material	Wall	Rows	Coil Size	Velocity FPM	Air Pressure Drop	Refrig Pipe Connection Size	Weight (lbs)	Notes / Options
DC-1	Class "B" Surgery	DX38S03S15-27x12.5-LH	410A	740	23,400	18,500	24,000	3/8"	0.006 Aluminum Sine-wave	0.016 / Smooth	3	20"w x 14"h	411	0.43	5/8" / 5/8"	25	1, 3, 4
DC-2	Class "C" Surgery	DX38S03S14-20x12.5-LH	410A	1020	35,100	37,300	36,000	3/8"	0.006 Aluminum Sine-wave	0.016 / Smooth	3	26"w x 16"h	381	0.4	5/8" / 7/8"	33	2, 3, 4

1. Provide LEV Kit MXD-A32K100E

2. Provide LEV Kit MXD-A40K100E

3. MERV 8 Filtration Duct Mounted Ahead of SF fan. 4. MERV 14 Filtration Duct Mounted After Coil

SAMSUNG VRF	OUTDOOR HEAT PU	MP W/ HEAT	RECOVERY SCH	EDULE									
Tag Reference	Model Number	Refrigerant	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Efficiency IEER/EER	HSPF	Electric	al		Refrig Pipe Dim	Weight LBS	Sound Rating dB	Notes / Options
			Capacity (B10/11)	Capacity (BTO/II)	ILLIVELIX		Voltage / Phase	MCA	MOCP		LDS	ub	
HP-3	AM060NXMDCR/AA	410A	60,000	66000	17.1 / 10.9	10.9	208 / 230V / 1	32	50	3/8" / 3/4" / 5/8"	276#	58	1

1. Provide Wind Baffles

Louver So	chedule						
I.D. No.	Mfr.	Model	Size	Free Area	Finish	Quantity	Med Gas Louver Sizing
L-1	Greenheck	ESD-403	24 x 12	0.7	Mill	2	(10ea.) Type "H" Tanks = $2440 - 2440 / 1000$ cu. ft. = $2.44 - 2.44 \times 24$ sq. In. = 59 sq. In. Min per code = 72 sq. In. $72/144 = .5$ sq ft.
L-2	Greenheck	ESD-403	18 x 18	0.83	Mill	1	-

Slot Diffuse	r Schedule									
I.D. No.	Mfr. & Model	Туре	Use	Max CFM	Slot Length	# of Slots	Slot Witdth	Material	Deflector	Notes
SL-1	Greenheck XG-6600	Modular Linear Slot Diffuser	Supply / Transfer	130	24	2	1"	Aluminum	"Ice Tong"	Provide with Sound Lined Plenum
SL-2	Greenheck XG-6600	Modular Linear Slot Diffuser	Supply / Transfer	200	24	3	1"	Aluminum	"Ice Tong"	Provide with Sound Lined Plenum
SLR-1	Greenheck XG-6600	Modular Linear Slot Return Grille	Return	300	24	3	1"	Aluminum	"Ice Tong"	Provide with Sound Lined Plenum
SLR-2	Greenheck XG-6600	Modular Linear Slot Return Grille	Return	400	24	4	1"	Aluminum	"Ice Tong"	Provide with Sound Lined Plenum
SLR-3	Greenheck XG-6600	Modular Linear Slot Return Grille	Return	800	48	4	1"	Aluminum	"Ice Tong"	Provide with Sound Lined Plenum

1. Provide remote balancing damper where installed in wood veneer ceilings.

I.D. No.	Mfr. & Model	Туре	Neck Size	Overall Size	Material	Notes
ORCD-1	Titus TLF-AA	Laminfar Flow Diffuser	12"ø	60" x 24"	Aluminum	1
ORCD-2	Titus TLF-AA	Laminfar Flow Diffuser	8"ø	48" x 12"	Aluminum	1
CD-1	Titus MCD	Lay-in, 4-Way	6" x 6"	-	Steel	2
CD-2	Titus MCD	Lay-in, 4-Way	8" x 8"	-	Steel	2
CD-3	Titus MCD	Lay-in, 4-Way	10" x 10"	-	Steel	2
RG-1	Titus 50F	Eggcrate Grille, Lay-in	6" x 6"	-	Aluminum	2
RG-2	Titus 50F	Eggcrate Grille, Lay-in	8" x 8"	-	Aluminum	2
RG-3	Titus 50F	Eggcrate Grille, Lay-in	10" x 10"	-	Aluminum	2
EG-1	Titus 50F	Eggcrate Grille Surface Mt	6" x 6"	-	Aluminum	2
EG-2	Titus 50F	Eggcrate Grille Surface Mt	8" x 8"	-	Aluminum	2
LWR-1	Titus 350 RL	Wall Mount Return Grille	12" x 10"	-	Steel	
LWR-2	Titus 350 RL	Wall Mount Return Grille	12" x 12"	-	Steel	

SE 24th St.

SE 26th St.

SE 29th St.

SE 30th St.

SE 30th Pl.

SE 31st St

SE 32nd St.

1. Do a manual layout with lighting and ceiling layout. Verify size with GC and EC prior to ordering.

2. Provide Opposed blade dampers in hard lid ceiling installations.

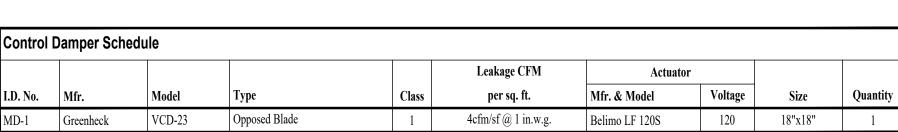
SE 30th St.

	Far	1		MERV 14 FINAL FILTE	R	
Tag	Airflow	Filter Velocity	Filter	Filters	Initial Static	Max. Static
Tag	CFM	FPM	Make & Model	Size	INCH W.G.	INCH W.G.
SF-1	750	270	Aerostar Geopleat # 21646	20 x 20 x 4	0.35	1.50
SF-2	1040	374	Aerostar Geopleat # 21646	20 x 20 x 4	0.35	1.50
	Far	1		MERV 8 PRE FILTER		
Ton	Far Airflow	Filter Velocity	Filter	MERV 8 PRE FILTER Filters	Initial Static	Max. Static
Tag			Filter Make & Model	_		
Tag SF-1	Airflow	Filter Velocity		Filters	Initial Static	
	Airflow CFM	Filter Velocity FPM	Make & Model	Filters Size	Initial Static INCH W.G.	INCH W.G.

I.D. No.	Manufacturer	Model	Type	Retaining Plates	Size	Note
SFD-1	Greenheck	FSDR-511	1-1/2 Hour Fire UL555	Yes	6"	1
SFD-1	Greenheck	FSDR-511	1-1/2 Hour Fire UL555	Yes	8"	1
SFD-3	Greenheck	FSDR-511	1-1/2 Hour Fire UL555	Yes	10"	1
SFD-4	Greenheck	FSDR-511	1-1/2 Hour Fire UL555	Yes	12"	1

1. Provide additional Blade Position Indicator

Magnahelio	Differential Press	ure Gauge					
Mfg.	Granger Part No.	Туре	Pressure Range	Accuracy	Dial Size	Notes	Quantity
DWYER	3T317	Diaphram Magnehelic Differential Pressure Gauge	0" - 2 " wc	+/- 2%	4- Inch	With 1/8" NPT	4



Note: Interlock to close when fan EF-4 is disabled.

### **GENERAL NOTES**

All duct sizes shown are clear **inside** dimensions.

- All duct gauges and supports per 2018 International Mechanical Code and SMACNA Duct Construction Manual.
- ASEI to air balance all systems to within 10% of design airflow upon project completion.
- Insulate supply and return ductwork where not located in conditioned space with minimum R-6 Johns Manville Permacote Linacoustic R-300 liner or wrap. Insulate all outside air ducts with minimum R-8 Johns Manville Permacote
- All duct transverse seams and longitudinal joints shall be sealed. All ductwork is constructed and sealed per IMC. OSA ductwork meets air leakage requirements per C402.5 and vapor retarder requirements per the IBC.
- Materials within ducts or plenums shall have a flame spread rating less than 25 and a flame smoke development rating less than 50 per WSEC 2018.
- All duct systems on this project are low pressure.
- Condensate drain piping shall be copper, PVC, or PEX.
- Auxiliary condensate drain overflow protection shall be provided per 2018 International Mechanical Code 307.2.3.
- 10. Provide insulation on all refrigerant piping per 2018 Washington State Energy Code Table C403.2.9. For VRF outdoor refrigerant pipes, provide 1.5" thick pipe insulation with k-value between 0.25 – 0.29 for 125°F mean rating temperature. For VRF indoor refrigerant pipes, provide 1" thick pipe insulation with k-value between 0.21 – 0.28 for

100°F mean rating temperature.

Ventilation must comply with 246-330 WAC & ASHRAE 170. 

**COORDINATION NOTES** 

**General Contractor** 

1. General Contractor to cut and provide openings for all rooftop, ceiling, floor, and wall penetrations, including

- weatherproof sealing. ASEI to provide size and location. General Contractor to provide framed openings where required for all mechanical penetrations, including headers if
- required. General Contractor to verify penetration locations with ASEI before framing openings. 3. General Contractor to provide all demolition, patching and painting as required for mechanical work.
- 4. General Contractor to provide service access per code to all mechanical equipment.
- 5. General Contractor to provide structure for mounting and hanging members of mechanical equipment.
- 6. General Contractor to provide all cutting of t-bar ceiling and extra material as required for HVAC installation. **Electrical Contractor**
- 1. Electrical Contractor to provide all electrical connections, disconnects, and motor starters for mechanical equipment.
- 2. Electrical Contractor to verify equipment sizes, loads and locations with ASEI mechanical plan and with field conditions. Electrical Contractor to provide 120v service outlet within 25 feet of each piece of mechanical equipment.
- ASEI to install all 24 volt low voltage wiring for thermostats.
- 6. Electrical Contractor to install all line voltage wiring and conduit.

### COMPLETION

Provide Test and Balance Report, Equipment Startup Test Reports, Operation and Maintenance Manuals, and As-built Record Drawings, as applicable, to Owner upon Project Completion.

DEDICATED	OUTSIDE AIR SYSTEM WITH I	ENERGY RECOVERY VENTILATO	OR SCHEDUL	.E								
					Nominal Reco	overy Effectiver gh Fan Speed)						
Lossnay Tag	Make and Model	Core Type	Airflow (cfm)	Max ESP (INWG)	Sensible	Summer	Winter	Voltage / Phase	MCA / MOCP	Weight LBS	Sound Rating dB	Notes / Options
ERV-1	Lossnay LGH-F380RVX2-E	Fixed Permeable Cross Plate	385	0.6	65%	50%	63%	208V/1-Phase	3.9 / 15	110	34	1,2,3

Notes & Options:

1. ERV to Interlock to SF-1 & SF-2. Motorized shut off dampers not required per C403.7.8 (Exception 1.3)

2. Hang ERV-1 from floor framing. Utilize spring isolators.	Duct	Heater	Sched	ule							
3. Do not use factory filters. Use Duct Mounted MERV8 Filters.	I.D. No	. Unit	nit	Mfr.	Model	<b>Duct Size</b>	KW	Voltage	Ph.	Control	Notes
	DH-1	ERV	2V-1	Warren	CBK	10"	5	208	3	24 V.	1

1. Provide built-in thermostat with SCR, Set to 60°. Enabled when OSA temp is below 45°F. Interlock to ERV units.

Fan Schedu	ıle																
I.D. No.	Area Served	Mfr.	Model	Туре	CFM	Min OSA CFM	Min S.P.	Max SP	RPM	Voltage	Ph.	HP or W	Sound Rating dB / Sones	Op. Wt.	Speed Control	Controlled By	Notes
SF-1	Class B Surgery	Twin City	BSI-090A	Inline	750	160	2.0" w.g.	3.0" w.g.	2528	208/230	3	0.75 HP	70	86	VFD	HVAC controls	1, 2, 3
SF-2	Class C Surgery	Twin City	BSI-120AHP	Inline	1050	225	2.0" w.g.	3.0" w.g.	2000	208/230	3	0.75 HP	69	102	VFD	HVAC controls	1, 2, 3
EF-1	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-2	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-3	Elect / IT Room	Greenheck	SP-A50-90-VG	Ceiling	50	-	.5	-	808	120	1	6 W	40 / 2.0		Yes	Line Voltage Temp Sensor	-
EF-4	VAC Room	Greenheck	AER-36-03-0300-VG	Wall	400	-	.05	-	378	120	1	.5 HP	44	108	Yes	Line Voltage Temp Sensor	-

SCOPE OF WORK:

170-2017.

O A complete VRF Split Heat Pump system with (2) zone ducted

O Provide new ductwork, dampers, GRDs (grilles, registers,

existing heat pump systems. Reuse GRD's as applicable.

Provide IT/ELECT Room Exhaust

Provide VACUUM Room Exhaust

Provide Dryer Exhaust Duct

• Provide air test and balance with final report.

Provide owner's manual and instructions.

Provide (2) louvers for Gas Storage Room

diffusers), duct liner and insulation, thermostats, control wiring, refrigeration

piping, and condensation piping associated with new heat pump systems &

O Provide new intake vents & exhaust vents for ventilation air and

• CTS. Check, test, and start new unit to ensure it is operating properly.

• One-year warranty on all materials installed and workmanship.

indoor systems and Merv-8 & Merv 14 filters per ASHRAE Std

• Furnish and install:

1. Provide with flow bridge and VFD control to provide constant airflow as filter static increases.

2. Fan controlled by MCMDZ11UN Control Kit at Duct Coil

3. Provide TCF Motors

		Max Connected					Cound Dating		
Model Number	Number of Ports	Capacity	Refrig Pipe Dim	Voltage / Phase	MCA	MOP	Sound Rating dB	Weight	Notes / Options
MCU-R4NEKON	4	76,000	3/8" / 3/4" / 5/8"	208/230V / 1	2.0	15	34	47 #	1
			Сараспу	Capacity	Capacity	Capacity	Capacity	Сараспу	Capacity 0 1 dB 0

I.D. No.	Mfr. & Model	Type	<b>Unit Served</b>	Notes	Quantity
T1	Samsung HVAC # MWR-WG00UN	Thermostat	DC-1	Mount @ 48" A.F.F.	1, 2
T2	Samsung HVAC # MWR-WG00UN	Thermostat	DC-2	Mount @ 48" A.F.F.	1, 2

1. VRF System Central Controller shall control local thermostats for all air handlers. Controller shall be programmable, capable of 5 degree deadband, and have 2 occupied/2 unoccupied schedules for seven days per week. Controller shall be capable of automatically adjusting the daily start time of the HVAC system in order to bring each space to the desired occupied temperature immediately prior to scheduled occupancy.

2. Provide in conjunction with MCM-A300UN Touch Centralized Controller, MCMD211UN UCK Control Kit, MXD-A32K100E EEV kit, MXD-A40K100E EEV kit.

Electric Wall Heater Schedule											
I.D. No.	Area	Туре	Mfr.	Model	Watts	Voltage	Ph.	Amps.	Control	Wt.	Qty.
EWH-1	Vacuum Rm	Fan-driven wall-mounted	King	PAW	250	120	1	2.1	Built-in T-stat	10 lbs.	1

Mechanical Sheet Index							
Sheet	Title						
M-1	HVAC NOTES & SCHEDULES						
M-2	PARTIAL PLAN FIRST FLOOR TENANT IMPROVEMENT & MECHANICAL LEGEND						
M-3	PARTIAL PLAN EXISTING GARAGE & VENTILATION SCHEDULE						

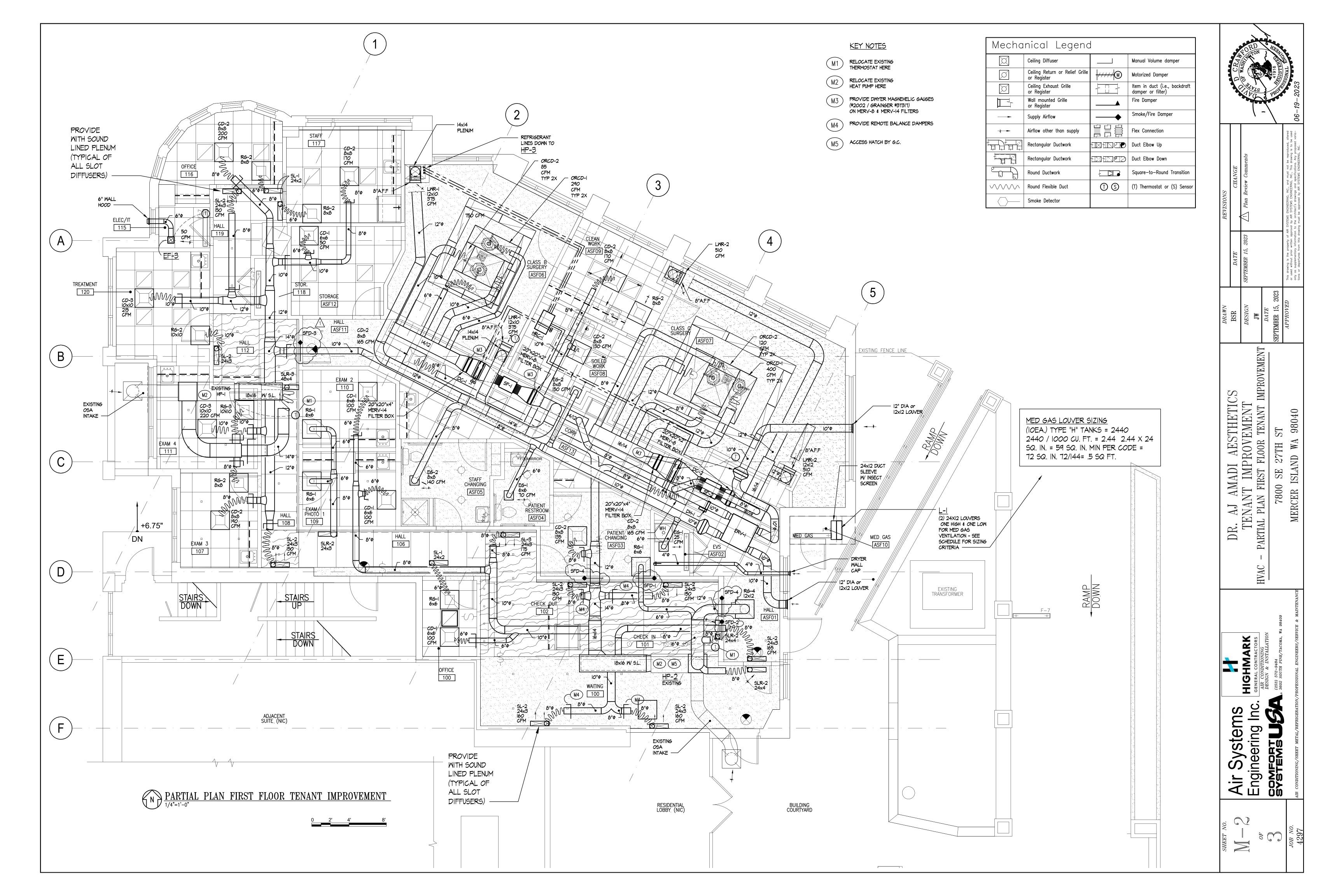
CITY OF MERCER ISLAND APPROVAL

SNOIS	CHANGE	Plan Review Comments		
SIOI		Plan		

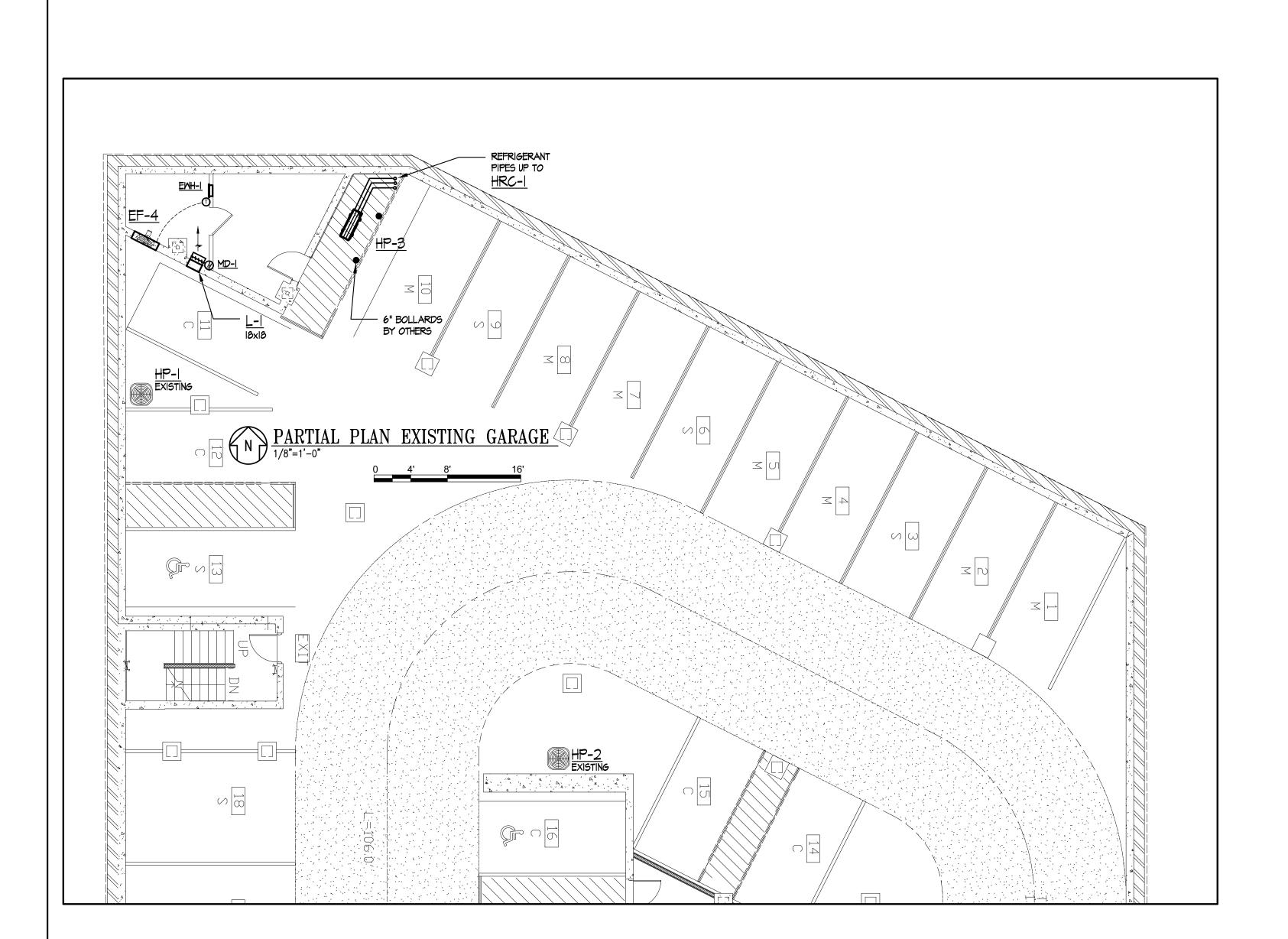
		INE VISIOINS
	DATE	CHANGE
·	SEPTEMBER 15, 2023	/1∕ Plan Review Comme
23		
	This drawing is the property of Al or used without prior written appr	This drawing is the property of AIR SYSTEMS ENGINEERING, INC., and must not book used without prior written approval by AIR SYSTEMS ENGINEERING, INC., This does a complementary information to the problems, advantage and specifications.

SE ISLA

AJ AMADI NANT IMI VAC NOTES 8 DR. TEN



Occupancy	Gross Area (ft2)	Ceiling Ht.ft.	Room Volume (ft3)	OSA Air Changes / Hr.	Total Air Changes / Hr.	Occupiable Floor Area (ft²)	People (Occupants 1000)	Occupants	Outdoor Air (CFM/Person)	Outdoor Air CFM Per Occupants (A)	OSA CFM (ft²) (B)	OSA For AREA (ft²)	Total Outdoor Air CFM Per ASHRAE 62 / 403.3.1.1 (A) + (B)	Total Outdoor Air CFM Required Per ASHE Standard 170-2017	Total Supply Air CFM Required Per ASHE Standard 170-2017	Total Supply Air CFM Supplied	Total Exhaust Air CFM	Pressure
#ASF06 Class B Surgery	240	9.25	2220	4	20	-	-	-	-	-	-	-	-	148	740	750		Positive
#ASF07 Class C Surgery	330	9.25	3052	4	20	-	-	-	-	-	-	-	-	203	1,017	1,020		Positive
#ASF09 Clean Wk Rm	85	9.25	786	2	4	-	-	-	-	-	-	-	-	26	52	170	-	Positive
#ASF08 Soiled Work Room	83	9.25	768	2	10	-	-	-	-	-	-	-	-	26	-	130	150	Negativ
#120 Treatment	107	9.25	990	2	6	-	-	-	-	-	-	-	-	33	99	215	-	N/R
#107 Exam 3	88	9.25	814	2	6	-	-	-	-		-		-	27	81	190	-	N/R
#111 Exam 4	106	9.25	980	2	6	-	-	-	-	-	-	-	-	33	98	220	-	N/R
#106 / #108 /#112 Corr	210	9.25	1942	2	-						-			65	-	300		N/R
#117 Staff Office	56	-	-	-	-	56	5	1	5	5	0.06	3	8	-	-	170	-	N/R
#116 Office	49	-	-	-	-	49	5	1	5	5	0.06	3	8	-	-	200	-	N/R
															€ HP-1	1595		
#109 Exam 1	84	9.25	777	2	6	-	-	-	-		-		-	26	78	100	-	N/R
#110 Exam 2	80	9.25	740	2	6	-	-	-	-		-		-	25	74	100	-	N/R
#ASF03 Patient Changing	96	9.25	888	2	6	-	-	-	-		-		-	30	89	135	-	N/R
#ASF05 Staff RR	89	9.25	823	-	10	-	-	-	-		-		-	-	-	45	140	Negativ
#ASF04 Patient RR	45	9.25	416	-	10	-	-	-	-		-		-	-	-	-	70	Negativ
#AFS13 Corridor	367	9.25	3395	-	2	-	-	-	-		0.06		22	-	113	330	-	N/R
#100 Waiting	116	-	-	-	-	87	30	3.48	5		0.06		27	-	-	400	-	N/R
#101 Check in	108	-	-	-	-	80	30	3	5		0.06		20	-	-	395	-	N/R
# 100 Office	45	-	-	-	-	49	5	1	5	5	0.06	3	8	-	-	100	-	N/R
#ASF12 Storage	85	9.25	786	-	-	-	-	-	-	-	0.12	10.2	10	-	-	50	-	N/R



	Outdoor Air ASHRAE 62	Outdoor Air STD 170-2017			
Subtotal	103	641			
Effectiveness	0.8	Not Req'd Due to AC/H			
Total Required	129	641			
Mechanically Provided	815				
	ERV-1 =	385			
	Exist. HP-1 =	230			
	Exist. HP-2 =	200			
	Total	815			

Ī	Exhaust Air
Subtotal	360
Total Required	360
Mechanically Provided	385
ERV-1 =	385
Total	385

Air Systems
HIGHMARK
Engineering Inc.

COMFORT

COMFORT

SYSTEMS

(253) 572-9484

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### **ELECTRICAL SYMBOLS LEGEND**



DETAIL/SECTION IDENTIFICATION: A = DETAIL/SECTION LETTER, B = SHEET NUMBER WHERE DETAIL/SECTION IS DRAWN.



EQUIPMENT CONNECTION CALLOUT. A,B EQUAL EQUIPMENT IDENTIFICATION ON MECHANICAL OR KITCHEN EQUIPMENT CONNECTION SCHEDULES. VERIFY EXACT EQUIPMENT REQUIREMENTS ON SHOP DRAWING EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN. DO NO ROUGH-IN FOR EQUIPMENT PRIOR TO REVIEW OF SUBMITTALS. REPORT ANY DIFFERENCES IN REQUIREMENTS TO ENGINEER IN WRITING.

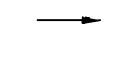


CONDUIT CONCEALED. HASH MARKS INDICATE NUMBER OF #12 CONDUCTORS IN CODE SIZE CONDUIT. NO HASH MARKS INDICATES 2-#12 CONDUCTORS PLUS GROUND IN 3/4" CONDUIT, LONG HASH MARKS INDICATES NEUTRAL CONDUCTOR. 

✓ INDICATES GROUND CONDUCTOR.



FLEXIBLE RACEWAY, PROVIDE GROUND CONDUCTORS PER NEC.



A-1,3 ADJACENT TO ARROW INDICATES HOMERUN OF CONDUCTORS IN CONDUIT FOR CIRCUITS 1 AND 3 TO PANEL "A".



EXIT LIGHT WITH BATTERY, UNIVERSAL MOUNTING.



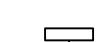
LIGHT FIXTURE, SURFACE MOUNTED ON CEILING.



LIGHT FIXTURE, RECESS MOUNTED IN CEILING.



LIGHT FIXTURE, WITH EMERGENCY BATTERY PACK AND CONNECTED TO GENERATOR LIFE SAFETY BRANCH.



LIGHT FIXTURE, WALL MOUNTED.



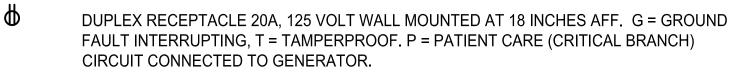
WALL MOUNT LIGHT FIXTURE.







**POWER PANEL** 



DUPLEX RECEPTACLE 20A, 125 VOLT WALL MOUNTED HORIZONTALLY 2" ABOVE COUNTERTOP BACKSPLASH TO THE BOTTOM OF THE RECEPTACLE COVERPLATE.

FOURPLEX RECEPTACLE 20A, 125 VOLT, WALL MOUNTED AT 18 INCHES AFF.

DUPLEX RECEPTACLE 20A, 125 VOLT MOUNTED IN FLUSH FLOOR BOX.

SPECIAL RECEPTACLE. AMPERAGE AND VOLTAGE AS SHOWN.

EQUIPMENT CONNECTION. PROVIDE PER NEC AND MANUFACTURERS REQUIREMENTS AND/OR RECOMMENDATIONS.

WIRELESS, LIGHT SWITCH, SINGLE POLE, SUBSCRIPTS; 3 = THREE WAY, 4 = FOUR WAY, D = DIMMER CONTROL, a, b, c, ETC = NUMBER OF SWITCHES AT THE LOCATION AND SPECIFIC FIXTURES CONTROLLED. MOUNT AT 42 INCHES AFF.

AUTOMATIC/MANUAL OCCUPANCY SENSOR AND SINGLE POLE TOGGLE SWITCH. SENSORWORX #SWX-123 OR EQUAL. SWITCH SHALL BE PROGRAMMED FOR MANUAL ON, AUTOMATIC OFF.

DUAL TECHNOLOGY AUTOMATIC OCCUPANCY SENSOR DEVICE

DAYLIGHT PHOTOSENSOR DISCONNECT SWITCH

FUSED DISCONNECT SWITCH WITH FUSES.

MOTOR RATED TOGGLE SWITCH WITH OVERLOAD HEATER(S), SIZE PER NEC AND MANUFACTURERS REQUIREMENTS.

FLUSH MOUNTED DUAL TELEPHONE/DATA OUTLET, MOUNT AT 18" AFF. PROVIDE 4" SQUARE BOX WITH 1" CONDUIT AND PULL STRING TO ACCESSIBLE CEILING SPACE.

GROUND PER NEC.

AVAILABLE FAULT CURRENT

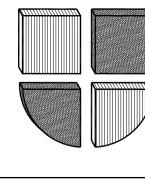
TRANSIENT VOLTAGE SURGE SUPPRESSION. TPS3-X-11-15-D2, SIEMENS OR EQUAL. "X" = VOLTAGE/ PHASE (VARIES), SEE POWER RISER DIAGRAM AND/OR PANEL SCHEDULES FOR VOLTAGE AND PHASE REQUIREMENTS.

**EXISTING** 

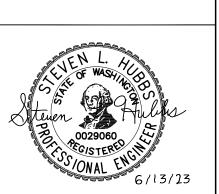
WEATHERPROOF



ENGINEERS,



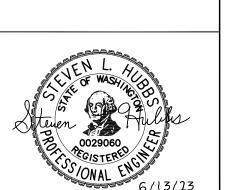
**REVISIONS:** 



Phone (360) 455-1025 Fax (360) 455-1026

CROSS ENGINEERS, INC

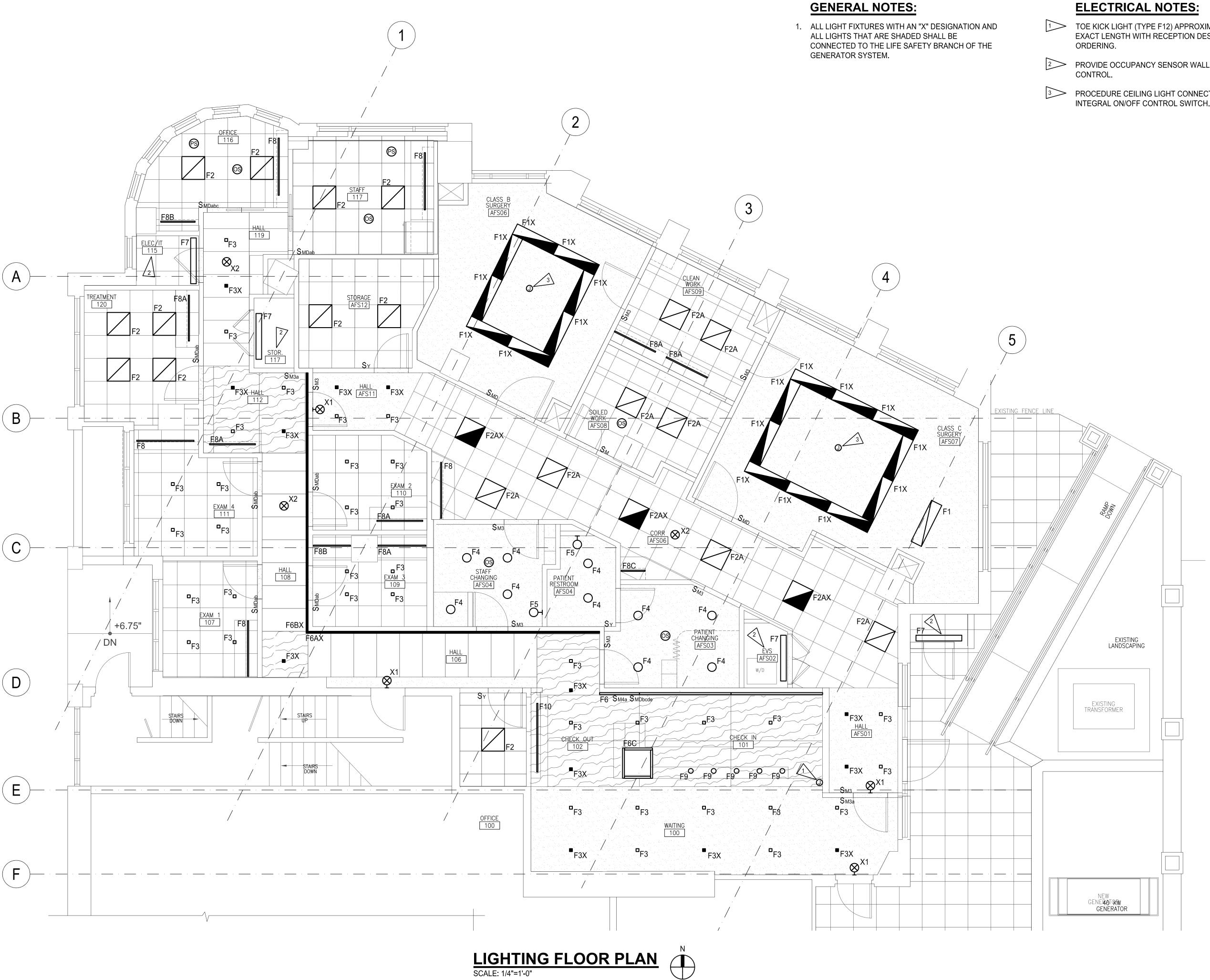
923 Martin Luther King Jr. Way Phone: (253) 759-0118
Tacoma, WA 98405
info@crossengineers.com



**BUILDING PERMIT SUBMITTAL** 

<u>TYPE</u>	MANUFACTURER	<u>LAMPS</u>	<u>WATTS</u>	<u>MOUNTING</u>
F1	AMICO L-SURGLED-14-120-L40-A-M- SYM-CM OR EQUAL	LED	69	RECESSED
F1X	SAME AS TYPE F1 WITH EMERGENCY BATTERY PACK AND CONNECTED TO GENERATOR			
F2	METALUX 22CGTS-L3C3 OR EQUAL	LED	29	RECESSED
F2A	METALUX FSP-14-32-40-CA125 OR EQUAL	LED	28	RECESSED
F2AX	SAME AS TYPE F2A WITH EMERGENCY BATTERY PACK AND CONNECTED TO GENERATOR			
F3	LIGHTHEAD T2SF-T-XX-XX-CL-B55-30-CCT- 9014/DRC-T2-5-P-120/RSP-XX- S-T OR EQUAL	LED	18	RECESSED
F3X	SAME AS TYPE F3 WITH EMERGENCY BATTERY PACK AND CONNECTED TO GENERATOR			
F4	HALO PR4-FS12-D010-PR4M-12-MD- 8FS-MW (SET FOR 1000 LUMENS) OR EQUAL	LED	10	RECESSED
F5	ASTRO 1420005 OR EQUAL	LED	38	WALL (ILLUMINATED MIRROR)
F6	AXIS LIGHTING BMPRLEDPAT-500-90-30-S0- RG2-19'-0"-W-UNV-DP-1-XX- ECR2 OR EQUAL	LED	95	RECESSED
F6A	AXIS LIGHTING BMPRLEDPAT-500-90-30-S0- RG2-25'-0"-W-UNV-DP-1-XX- ECR2 OR EQUAL	LED	125	RECESSED
F6AX	SAME AS TYPE F6A WITH EMERGENCY BATTERY PACK AND CONNECTED TO GENERATOR			
F6B	AXIS LIGHTING BMPRLEDPAT-500-90-30-S0- RG2-22'-0"-W-UNV-DP-1-XX- ECR2 OR EQUAL	LED	110	RECESSED
F6BX	SAME AS TYPE F6B WITH EMERGENCY BATTERY PACK AND CONNECTED TO GENERATOR			
F6C	AXIS LIGHTING BMPRLEDPAT-OPRI(4)-500-90- 30-SO-RG2-10'-0"-W-UNV-DP-1-XX- ECR2 OR EQUAL	LED	50	RECESSED
F7	METALUX 4SLSTPSLC-UNV OR EQUAL	LED	31	WALL
F8	LITELINE LEDBAR-58-30K OR EQUAL	LED	16	UNDERCABINET
F8A	LITELINE LEDBAR-48-30K OR EQUAL	LED	14	UNDERCABINET
F8B	LITELINE LEDBAR-34-30K OR EQUAL	LED	11	UNDERCABINET
F8C	LITELINE LEDBAR-23-30K OR EQUAL	LED	7	UNDERCABINET
F9	LED, DECORATIVE, PENDANT, ABOVE RECEPTION DESK,TBD	LED	10	PENDANT
F10	ELEMENT BY VISUAL COMFORT ESRF0604P-72"-190930-F-XX- M-1-E-D OR EQUAL	LED	12	RECESSED
F12	ELEMENT BY VISUAL COMFORT ESR4SRP-22'-0"-18-930-F-XX- F-FEED-E-D OR EQUAL	LED	42	TOE KICK
X1	SURE-LITES EU-S-7-0-G OR EQUAL	INCLUDED	3	UNIVERSAL
X2	SAME AS X1 WITH DUAL FACE	INCLUDED	3	UNIVERSAL

	LIGHTING FIXT	TURE SCH	IEDULE	
<u>TYPE</u>	MANUFACTURER_	<u>LAMPS</u>	<u>WATTS</u>	<u>MOUNTING</u>
F1	AMICO L-SURGLED-14-120-L40-A-M- SYM-CM OR EQUAL	LED	69	RECESSED
F1X	SAME AS TYPE F1 WITH EMERGENCY BATTERY PACK AND CONNECTED TO GENERATOR			
F2	METALUX 22CGTS-L3C3 OR EQUAL	LED	29	RECESSED
F2A	METALUX FSP-14-32-40-CA125 OR EQUAL	LED	28	RECESSED
F2AX	SAME AS TYPE F2A WITH EMERGENCY BATTERY PACK AND CONNECTED TO GENERATOR			
F3	LIGHTHEAD T2SF-T-XX-XX-CL-B55-30-CCT- 9014/DRC-T2-5-P-120/RSP-XX- S-T OR EQUAL	LED	18	RECESSED
F3X	SAME AS TYPE F3 WITH EMERGENCY BATTERY PACK AND CONNECTED TO GENERATOR			
F4	HALO PR4-FS12-D010-PR4M-12-MD- 8FS-MW (SET FOR 1000 LUMENS) OR EQUAL	LED	10	RECESSED
F5	ASTRO 1420005 OR EQUAL	LED	38	WALL (ILLUMINATED MIF
F6	AXIS LIGHTING BMPRLEDPAT-500-90-30-S0- RG2-19'-0"-W-UNV-DP-1-XX- ECR2 OR EQUAL	LED	95	RECESSED
F6A	AXIS LIGHTING BMPRLEDPAT-500-90-30-S0- RG2-25'-0"-W-UNV-DP-1-XX- ECR2 OR EQUAL	LED	125	RECESSED
F6AX	SAME AS TYPE F6A WITH EMERGENCY BATTERY PACK AND CONNECTED TO GENERATOR			
F6B	AXIS LIGHTING BMPRLEDPAT-500-90-30-S0- RG2-22'-0"-W-UNV-DP-1-XX- ECR2 OR EQUAL	LED	110	RECESSED
F6BX	SAME AS TYPE F6B WITH EMERGENCY BATTERY PACK AND CONNECTED TO GENERATOR			
F6C	AXIS LIGHTING BMPRLEDPAT-OPRI(4)-500-90- 30-SO-RG2-10'-0"-W-UNV-DP-1-XX- ECR2 OR EQUAL	LED	50	RECESSED



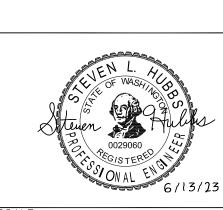
TOE KICK LIGHT (TYPE F12) APPROXIMATELY 22'-0" LONG. VERIFY EXACT LENGTH WITH RECEPTION DESK SHOP DRAWINGS PRIOR TO

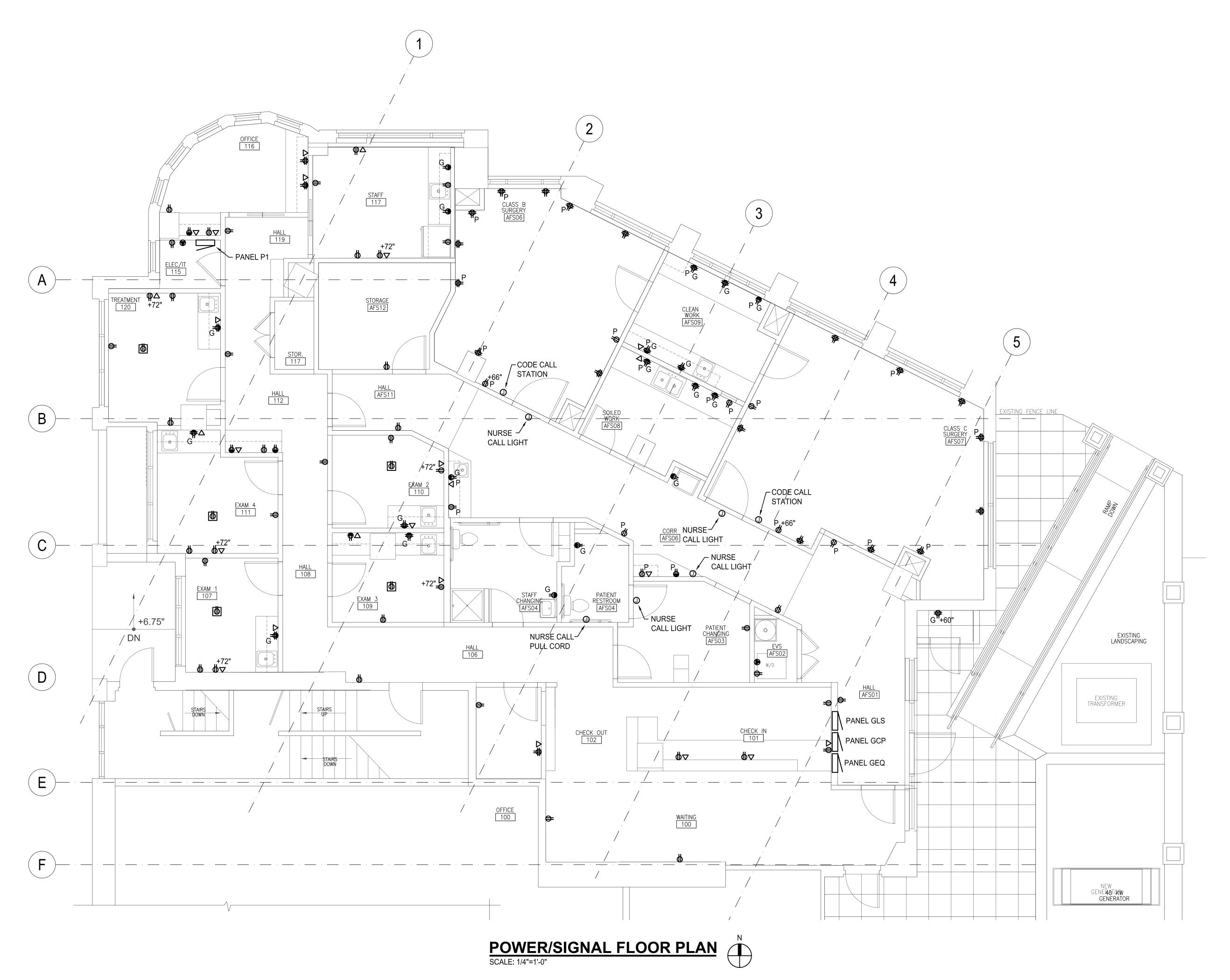


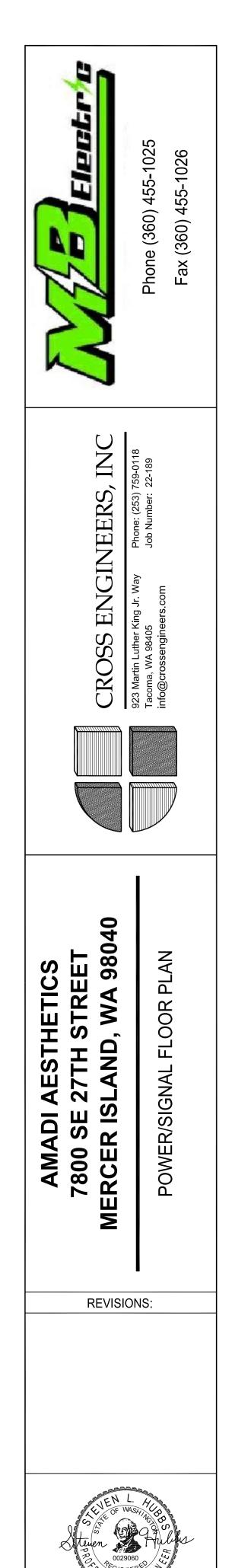
PROCEDURE CEILING LIGHT CONNECTION. LIGHT TO HAVE INTEGRAL ON/OFF CONTROL SWITCH.

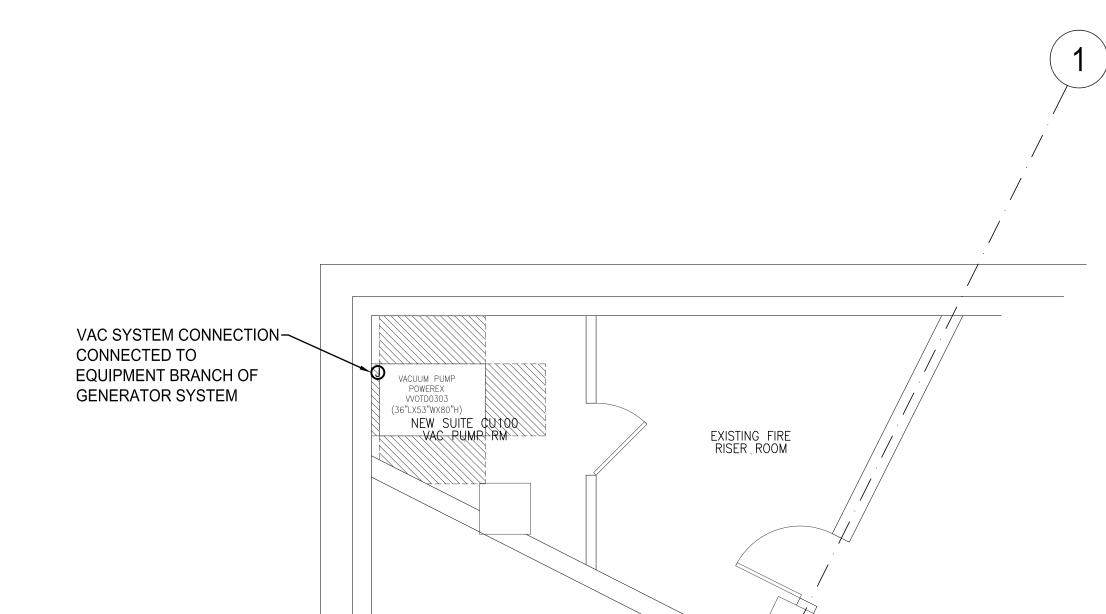


**REVISIONS:** 

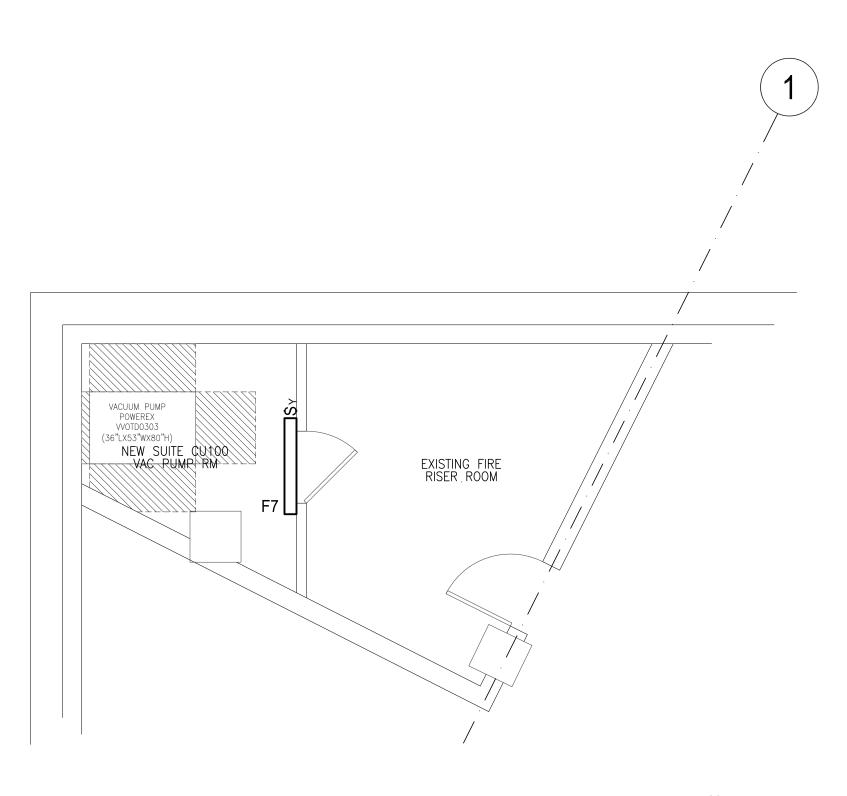








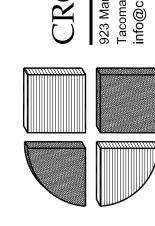
PARTIAL POWER FLOOR PLAN
SCALE: 1/4"=1'-0"





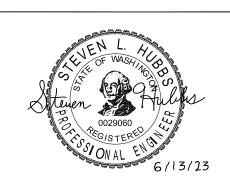


CROSS ENGINEERS, INC
923 Martin Luther King Jr. Way Phone: (253) 759-0118
Tacoma, WA 98405 Job Number: 22-189
info@crossengineers.com



AMADI AESTHETICS 7800 SE 27TH STREET MERCER ISLAND, WA 98040

REVISIONS:



SCALE: AS NOTED

DATE: 6-13-2023

DRAWN BY: SJK
CHECKED BY: SLH

JOB NO.: OF

### **CONDUIT AND CONDUCTOR SCHEDULE:**

1 (E)(6)4"C-(4)#600 KCM AL EACH

(E)(2)3-1/2"C-(4)#500 KCM AL & (1)#2/0 AL GRD

(E)2-1/2"C-(4)#250 KCM AL & (1)#4 AL GRD

4 NEW 2-1/2"C-(4)#250 KCM AL & (1)#4 AL GRD

5 NEW 2"C-(4)#3/0 AL & (1)#4 AL GRD

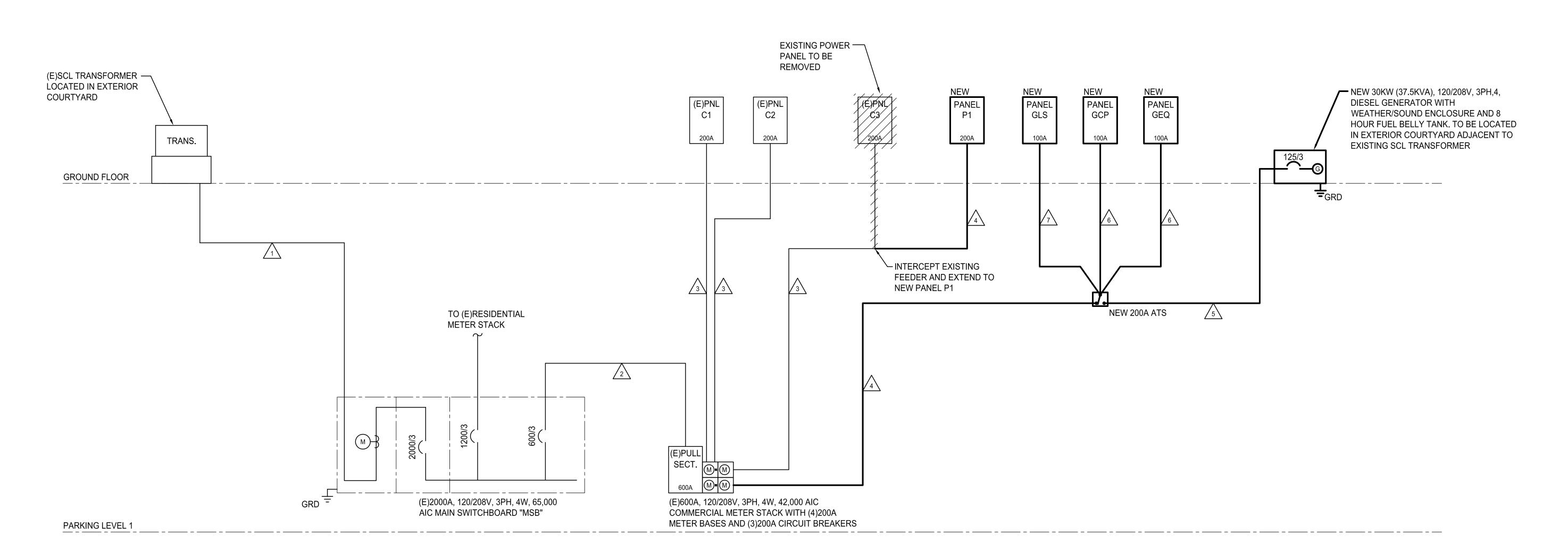
6 NEW 1-1/2"C-(4)#1 AL & (1)#6 AL GRD

NEW 1"C-(4)#6 CU & (1)#10 CU GRD

### **LEGEND**:

---- EXISTING

'////. EXISTING TO BE REMOVED

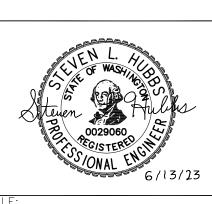


# PARTIAL EXISTING/NEW POWER RISER DIAGRAM



CROSS ENGINEERS, INC

**REVISIONS:** 



### **GENERAL NOTES**

- REFERENCE TO RELATED WORK: "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL, LANDSCAPE, OR KITCHEN), OR ITEM BASED ON A SPECIFIC MANUFACTURER'S DIMENSIONS (VERIFY).
- CODES: COMPLETE INSTALLATION OF THE PLUMBING SYSTEM SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL AHJ.
- 3. PREPARE AND SUBMIT FOR REVIEW A SHOP DRAWING BASED ON FINAL STRUCTURAL SHOP DRAWINGS FOR LOCATING AND ROUTING ALL EQUIPMENT, PIPING, ETC.
  - A. COORDINATE FLOOR AND BEAM PENETRATIONS WITH STRUCTURAL.
     B. COORDINATE FINAL LOCATION AND ROUTING WITH CEILING, LIGHTS, WALLS, FIRE SPRINKLER PIPING, AND OTHER TRADES WORK.

INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING, EQUIVALENT

- DUCT SIZING EXCHANGE, RELOCATING, ETC. AS REQUIRED FOR A COMPLETE OPERATING MECHANICAL SYSTEM.

  D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO THE
- . PLUMBING CONTRACTOR SHALL LOCATE AND COORDINATE EXACT

OWNER.

5. ACCESS DOORS: COORDINATE WITH ARCHITECT AND LOCATE ALL ACCESS DOORS ON SHOP DRAWINGS PRIOR TO BEGINNING OF CONSTRUCTION. ACCESS DOORS IN FIRE RATED STRUCTURE SHALL BE FIRE RATED. VERIFY ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO BIDDING.

LOCATION OF ALL PLUMBING EQUIPMENT WITHIN THE STRUCTURE.

- 6. ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR ROOF CAP, ROOF CURB, ROOF DRAIN, OVERFLOW DRAINS AND VTR DETAILS.
- 7. EXPOSED PIPING: PROVIDE CHROME PLATING FOR EXPOSED PIPING IN FINISHED ROOMS.
- 8. PENETRATIONS: PROVIDE ESCUTCHEON PLATES FOR EXPOSED PIPING PENETRATIONS AND SHEET METAL FLASHING FOR EXPOSED DUCTWORK PENETRATIONS.
- 9. SHAFT AND PLENUM CONNECTIONS: SEAL CONNECTIONS TO AIR SHAFTS AIRTIGHT. PROVIDE AIRTIGHT SEAL AROUND PENETRATIONS IN AIR PLENUMS.
- 10. LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.
- 11. CABLE TRAYS: PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" ABOVE AND TO THE SIDE OF CABLE TRAYS.
- 12. MOTORS: COMPLY WITH ENERGY CODE ENFORCED BY AHJ FOR MINIMUM EFFICIENCIES UNDER FULL LOAD.
- 13. ACCESS CLEARANCES FOR MAINTENANCE AND REPLACEMENT: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE LOCATIONS OF MECHANICAL WORK AND WORK OF OTHER TRADES TO PROVIDE ACCESS CLEARANCES FOR SERVICE AND MAINTENANCE.

### COORDINATION REQUIREMENTS

- 1. PLUMBING FIXTURES & EQUIPMENT: COORDINATE EXACT LOCATION OF ALL PLUMBING FIXTURES & EQUIPMENT WITH ARCHITECTURAL AND OTHER TRADES DOCUMENTS.
- 2. PIPING: COORDINATE EXACT LOCATION OF ALL STRUCTURAL FRAMING & FOOTINGS AND FINALIZE THE EXACT ROUTING OF ALL PIPES WITH STRUCTURAL ENGINEER AT THE SITE PRIOR TO AND DURING THE CONSTRUCTION. COORDINATE UNDER GRADE PIPING & FOUNDATION DRAINAGE PIPING WITH CIVIL ENGINEER.
- 3. ADJUSTMENTS: ALL EQUIPMENT, MOTORS, FANS GAS BURNERS, IGNITION DEVICES, DRIVES, ETC. SHALL BE ADJUSTED AND BALANCED TO OPERATE AT SPECIFIED RATINGS AS REQUIRED FOR THIS PROJECT SITE AND ACCOUNTING FOR ELEVATION ABOVE SEA LEVEL.
- 4. APPROVALS: MECHANICAL AND PLUMBING EQUIPMENT SHALL BE APPROVED FOR INSTALLATION IN THE PROJECT LOCATION AND SHALL HAVE ALL CERTIFICATIONS AND RATINGS TO MEET ALL ENERGY, POLLUTION, ENVIRONMENTAL, SEISMIC, APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR SHALL COORDINATE WITH MANUFACTURE SUPPLIERS AND SHALL INCLUDE ALL COSTS REQUIRED TO MEET THE BID DOCUMENTS.
- 5. FIRE PROTECTION: CONTRACTOR SHALL PROVIDE A FULLY DESIGNED FIRE PROTECTION SPRINKLER SYSTEM IN COMPLIANCE WITH NFPA AND LOCAL CODES. PROVIDE DESIGN, PERMITS, MATERIALS, INSTALLATION, TESTING AND ALL OTHER FOR A FULLY OPERATIONAL SYSTEM. LOCATION OF ALL PIPING TO BE COORDINATED WITH OTHER TRADES.
- 6. PRIOR TO PIPING INSTALLATION: PLUMBING CONTRACTOR TO COORDINATE PIPING LAYOUT WITH ALL OTHER TRADES.
- 7. ACCESS: COORDINATE ALL ACCESS LOCATIONS WITH GENERAL CONTRACTOR AND ARCHITECT TO ENSURE ALL REQUIRED ACCESS HATCHES, ACCESS PANELS & ACCESS COVERS ARE PROVIDED.
- PROVIDE & INSTALL WATER TIGHT SEALS FOR ANY PIPING PENETRATING THE EXTERIOR FOUNDATION WALLS OR SLABS.
- . ANY DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT IMMEDIATELY.
- PROVIDE & INSTALL FIRE PROOFING FOR ALL PIPING PENETRATING FIRE BARRIER WALLS OR FLOOR SLABS.

### PLUMBING NOTES

- 1. CONNECTIONS: PROVIDE PLUMBING FIXTURE CONNECTIONS TO BUILDING WASTE, VENT, COLD WATER, AND HOT WATER SYSTEM IN ACCORDANCE WITH DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, AND LOCAL CODES. CONNECT TO EACH FIXTURE, EQUIPMENT, ETC. WITH ALL ACCESSORIES, VALVES, VACUUM BREAKERS, REGULATORS, UNIONS, ETC. AS REQUIRED AND AS RECOMMENDED BY THE MANUFACTURERS. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE ON PLANS.
- 2. HOT AND COLD: WATER PIPING CONNECTION TO EACH FIXTURE SHALL BE COLD WATER ON THE RIGHT HAND SIDE AND HOT WATER ON THE LEFT HAND SIDE
- 3. HOT WATER: NON-CIRCULATING HOT WATER PIPE SHALL NOT EXCEED WSEC REQUIREMENTS.
- 4. CLEANOUTS: PROVIDE CLEANOUTS PER CURRENT UPC AND AS REQUIRED BY LOCAL JURISDICTIONS. CLEANOUTS SHALL BE LOCATED IN WALLS/FLOORS WHERE THEY ARE NOT HIGHLY VISIBLE. FLOOR CLEANOUTS IN CARPETED AREAS TO BE FITTED WITH CARPET INSERTS. LOCATIONS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. NOTE: NOT ALL CLEANOUTS ARE SHOWN ON THE PLUMBING DRAWINGS.
- 5. SUDS RELIEF: PROVIDE SUDS RELIEF IN ACCORDANCE WITH CURRENT UPC STATE AND LOCAL CODES.
- 6. SHUT-OFFS: PROVIDE 1/4 TURN BALL VALVE ANGLE STOP SHUT-OFF VALVES AND BRAIDED STAINLESS STEEL FLEX CONNECTORS AT HOT AND COLD WATER SUPPLY TO EACH FIXTURE. EXCEPTION: PROVIDE SCREWDRIVER STOPS AT BATH/SHOWERS.
- 7. ADA INSULATION: AT PLUMBING PIPING EXPOSED UNDER LAVATORIES, INSULATE THE EXPOSED PIPING AND TRAPS WITH PRODUCT SPECIFICALLY DESIGNED FOR THIS APPLICATION MEETING ADA REQUIREMENTS. PROVIDE HANDI-LAV GUARD OR EQUIVALENT. OFFSET P-TRAPS TO CLEAR WHEELCHAIR ACCESS.
- 8. WATER HAMMER ARRESTORS: PROVIDE AT THE END OF HOT AND COLD WATER LINES SERVING TWO OR MORE FIXTURES; SIZE IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE (PDI) REQUIREMENTS. WATER HAMMER ARRESTORS ARE REQUIRED FOR QUICK CLOSING VALVES, SUCH AS LAUNDRY WASHERS, FLUSH VALVES (PUBLIC TOILETS), ETC.
- 9. TRAP PRIMERS: PROVIDE TRAP PRIMERS AND PIPING FOR FLOOR DRAINS, FLOOR SINKS, AREA DRAINS & HUB DRAINS. ARRANGE PIPING TO ACHIEVE EQUAL FLOW TO EACH DRAIN AND FLOOR SINK FOR TRAP PRIMERS SERVING MULTIPLE DRAINS AND FLOOR SINKS. COORDINATE EXACT LOCATIONS WITH ARCHITECT & ELECTRICAL ENGINEER.
- 10. P-TRAPS: ALL EXPOSED P-TRAPS SHALL BE CHROME-PLATED BRASS.
  P-TRAPS SERVING HANDICAPPED COUNTER TOP LAVATORIES SHALL BE INSULATED.
- 11. DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE.
- 12. REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION SIZES.
- 13. VALVE TAGS: PROVIDE VALVE TAGS PER SPECIFICATIONS TO IDENTIFY VALVE AND THE AREA IT SERVES.
- 14. OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.
- 5. PROVIDE AND INSTALL PIPE MARKER WITH DIRECTION OF FLOW. LABEL "NON-POTABLE WATER DO NOT DRINK" CLEARLY ON NON-POTABLE WATER PIPING.
- 16. PROVIDE EXPANSION LOOPS/EXPANSION JOINTS IN PIPING PER LOCAL
- 17. PROVIDE & INSTALL APPROVED PIPE HANGERS & PIPE SUPPORTS IN ACCORDANCE WITH LATEST APPLICABLE STATE & LOCAL CODES. SUBMIT FOR APPROVAL.
- 18. DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE.
- 19. REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 20. CONDENSATE DRAIN: PROVIDE A P-TRAP FOR EACH HVAC UNIT CONDENSATE PAN WITH PLUG TEES FOR CLEANING. CONDENSATE DRAINS SHALL BE DISCHARGED TO AN INDIRECT WASTE OR OUTSIDE.
- 21. PIPING & EQUIPMENT SUPPORTS/HANGERS & SEISMIC RESTRAINTS TO BE DESIGNED BY DESIGN BUILT CONTRACTOR.
- 22. ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE 2018 WASHINGTON STATE ENERGY CODE.
- 23. BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH 2018 UPC 701.0 AND 903.0.
- 24. ALL STORAGE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH AN APPROVED, LISTED EXPANSION TANK OR OTHER DEVICE DESIGNED FOR INTERMITTENT OPERATION FOR THERMAL EXPANSION CONTROL PER 2018 UPC 608.3.
- 25. WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENTS DUE TO SEISMIC MOTION PER 2018 UPC 507.2
- 26. MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH 2018 IMC 2018 601.1.3.
- 27. HVAC EQUIPMENT AND WATER HEATERS SHALL COMPLY WITH 2018 IMC CHAPTER 3.
- 28. BOILERS SHALL COMPLY WITH ALL THE REQUIREMENTS OF 2018 IMC CHAPTER 10.
- 29. SHOWERS AND TUB/SHOWER COMBINATIONS SHALL BE PROVIDED WITH MIXING VALVES PER 2018 UPC 408.0.
- 30. CONTRACTOR SHALL PROVIDE FIRESTOPPING AT PENETRATIONS AS NECESSARY TO RETAIN THE FIRE RATING OF ALL ASSEMBLIES. ALL WORK SHALL BE IN COMPLIANCE WITH CODE REQUIREMENTS FOR THE BUILDING CONSTRUCTION TYPE.

### MEDICAL GAS NOTES

- MEDICAL GAS SYSTEM SPECIFICATIONS:
   1.1. OXYGEN (O2): SYSTEM OPERATING PRESSURE SHALL BE 50-55 PSIG. PIPING SHALL BE BRAZED TYPE-L COPPER. PIPING SHALL BE
- LABELED "OXYGEN" IN WHITE TEXT ON GREEN BACKGROUND.

  1.2. MEDICAL COMPRESSED AIR (MA): SYSTEM OPERATING PRESSURE SHALL BE 50-55 PSIG. PIPING SHALL BE BRAZED TYPE-L COPPER. PIPING SHALL BE LABELED "MEDICAL AIR" IN BLACK TEXT ON YELLOW BACKGROUND.
- 1.3. MEDICAL VACUUM (MV): SYSTEM OPERATING PRESSURE SHALL BE
  15-20"HG. PIPING SHALL BE BRAZED TYPE-L COPPER. PIPING SHALL
  BE LABELED "MEDICAL VACUUM" IN BLACK TEXT ON WHITE
  BACKGROUND.
- 2. LABELING: MEDICAL GAS AN VACUUM PIPING SHALL BE LABELED IN ACCORDANCE WITH NFPA 99 5.1.11.1. PIPE LABELS SHALL BE LOCATED AS FOLLOWS:
- 2.1. AT INTERVALS OF NOT MORE THAN 20 FEET.
- 2.2. AT LEAST ONCE IN OR ABOVE EACH ROOM.2.3. ON BOTH SIDES OF WALLS OR PARTITIONS PENETRATED BY THE PIPING
- 2.4. AT LEAST ONCE ON EVERY STORY HEIGHT TRAVERSED BY RISERS.
- WARNING SYSTEMS: WARNING SYSTEMS SHALL COMPLY WITH NFPA 99
   5.1.9 EXCEPT AS FOLLOWS:
   WARNING SYSTEMS SHALL BE PERMITTED TO BE A SINGLE ALARM
- 3.2. THE ALARM PANEL SHALL BE LOCATED IN AN AREA OF CONTINUOUS SURVEILLANCE WHILE THE FACILITY IS IN OPERATION.

PRESSURE AND VACUUM SENSORS SHALL BE MOUNTED AT THE

- SOURCE EQUIPMENT WITH A PRESSURE INDICATOR AT THE MASTER 7800 SE 27TH ST ALARM PANEL. MERCER ISLAND, WA 98040
- 4. PERFORMANCE CRITERIA AND TESTING: MEDICAL GAS, VACUUM, AND WAGD SYSTEMS SHALL COMPLY WITH NFPA 99 5.1.12.
- 5. MEDICAL SUPPORT GASES: MEDICAL GAS SYSTEMS SHALL COMPLY WITH NFPA 99 5.1.13.
- OPERATION AND MANAGEMENT: MEDICAL GAS, VACUUM, AND WAGD
- 7. CERTIFICATION TEST: PRIOR TO PLACING MEDICAL GAS AND VACUUM SYSTEMS INTO SERVICE, ALL SYSTEMS SHALL BE CERTIFIED IN ACCORDANCE WITH UPC 1319.2. A REPORT THAT INCLUDES THE SPECIFIC ITEMS ADDRESSED IN SECTION 1319.2, AND OTHER INFORMATION REQUIRED BY UPC CHAPTER 13, NFPA 99, AND 2018 IFC, SHALL BE DELIVERED TO THE MERCER ISLAND FIRE MARSHALL PRIOR TO FINAL OCCUPANCY, VERIFIED AND ATTESTED TO BY THE CERTIFICATION
- AGENCY, SHALL INCLUDE THE FOLLOWING:

  7.1. VERIFYING IN ACCORDANCE WITH THE INSTALLATION

  REQUIREMENTS.

SYSTEMS SHALL COMPLY WITH NFPA 99 5.1.14.

- 7.2. TESTING, CHECKING FOR LEAKAGE, CORRECT ZONING, AND IDENTIFICATION OF CONTROL VALVES.
   7.3. CHECKING FOR IDENTIFICATION AND LABELING OF PIPELINES,
- STATION OUTLETS, AND CONTROL VALVES.

  7.4. TESTING FOR CROSS-CONNECTION, FLOW RATE, SYSTEM
- PRESSURE DROP, AND SYSTEM PERFORMANCE.
  7.5. FUNCTIONAL TESTING OF PRESSURE RELIEF VALVES AND SAFETY
- VALVES.
  7.6. FUNCTIONAL TESTING OF SOURCES OF SUPPLY.
- 7.7. FUNCTIONAL TESTING OF ALARM SYSTEMS, INCLUDING ACCURACY
  OF SYSTEM COMPONENTS.
   7.8. PURGE FLUSHING OF SYSTEM AND FILLING WITH SPECIFIC SOURCE
- GASES.
  7.9. TESTING FOR PURITY AND CLEANLINESS OF SOURCE GASES.
- 7.10. TESTING FOR SPECIFIC GAS IDENTITY AT EACH STATION OUTLET.
   7.11. A REPORT THAT INCLUDES THE SPECIFIC ITEMS ADDRESSED IN SECTION 1319.2, AND OTHER INFORMATION REQUIRED BY UPC

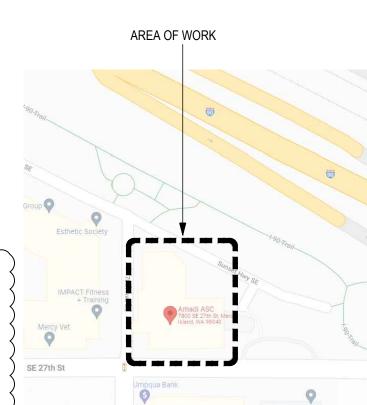
CHAPTER 13, SHALL BE DELIVERED TO THE AUTHORITY HAVING

JURISDICTION PRIOR TO ACCEPTANCE OF THE SYSTEM.

8. THIRD PARTY TESTING:THIRD PARTY TESTING AGENCY MUST BE

ASSE-6030 MEDICAL GAS SYSTEM VERIFIER CERTIFIED.

INSTALLER QUALIFICATIONS: QUALIFICATION OF INSTALLERS MUST BE KEPT ON-SITE AND PRODUCED AT THE REQUEST OF INSPECTOR. THIS INCLUDES VALID BRAZING CERTIFICATION AND THIRD PARTY TESTING AGENCY



### 

PROPERTY ADDRESS 7800 SE 27TH ST

ASSESSORS PARCEL NUMBER
769844-0000

I & LEGAL DESCRIPTION

ASSOCIATED BUILDING PERMITS

APPLICABLE CODES

2018 INTERNATIONAL BUILDING CODE (IBC)

2018 INTERNATIONAL MECHANICAL CODE (IMC)

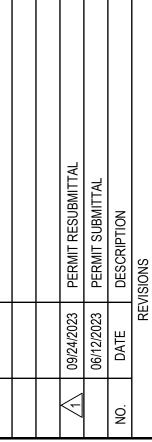
2018 UNIFORM PLUMBING CODE (UPC)

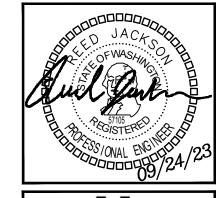
2020 NATIONAL ELECTRIC CODE (NEC)

2018 WASHINGTON STATE ENERGY CODE (WSEC)

PLUMBING AND MEDICAL GAS PIPING FOR A CATEGORY 1
AMBULATORY SURGERY FACILITY, INCLUDING PLUMBING FOR NEW EXAM SINKS, RESTROOMS, AND MISCELLANEOUS FIXTURES, AND MEDICAL GAS PIPING FOR TWO OPERATORIES.

	DRAWING INDEX
)WG	DESCRIPTION
2000	GENERAL NOTES, DRAWING INDEX
P001	SCHEDULES
20G1	LEVEL G1 PLAN
P201	LEVEL 1 PLAN
202	LEVEL 2 PLAN
203	LEVEL 3 PLAN
204	LEVEL 4 PLAN
205	LEVEL 5 PLAN
206	ROOF PLAN
2300	ENLARGED COURTYARD PLAN
400	LEVEL G1 SUPPLY PLAN
P401	LEVEL 1 SUPPLY PLAN
402	SUPPLY PIPING DIAGRAM
500	LEVEL G1 DWV PLAN
P501	LEVEL 1 DWV PLAN
502	DWV PIPING DIAGRAM
600	LEVEL G1 MEDGAS PLAN
P601	LEVEL 1 MEDGAS PLAN
P602	MEDGAS PIPING DIAGRAMS







14OTH AVE W. SUITE 302 IWOOD, WA 98036 NE:(206)364-3343

OBISON WA

ASF 7800 SE 27th ST, MER

DATE: 06/12/2023

SHEET TITLE: GENERAL NOTES, DRAWING INDEX

2018 WASHINGTON STATE PIL	PE INSULATIO	N SCHEDULE		
SERVICE	MATERIAL	THICKNESS	VAPOR RETARDER REQUIRED	NOTES (1)(2)(3)
DOMESTIC HOT WATER AND RECIRCULATED HOT WATER (NONRESIDETIAL)	MINERAL-FI BER WITH JACKET	½"-1¼" PIPE: 1" 1½" PIPE: 1½" 2"+ PIPE: 2"	NO	
EXPOSED SANITARY DRAINS AND DOMESTIC WATER SUPPLIES AND STOPS FOR ADA FIXTURES.	TRUEBRO LAV-GUARD	N/A	NO	P-TRAP AND SUPPLY COVERS

- NOTES: (1) FOR APPLICABLE CODES REFER TO PLUMBING COVER SHEET.
  - (2) PIPING INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE. CONTRACTOR SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE PERMITTED.
  - (3) PER 2018 UPC, SECTION 312.6 NO WATER, SOIL OR WASTE PIPE SHALL BE INSTALLED OR PERMITTED OUTSIDE OF THE BUILDING, IN ATTIC OR IN AN EXTERIOR WALL UNLESS ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPE FROM FREEZING. ALL HOT AND COLD WATER PIPES OUTSIDE THE CONDITIONED SPACE SHALL BE INSULATED TO

	PIPE MATERIALS SCHEDULE		
PIPE TYPE	MATERIAL	JOINT	NOTES (1)
WATER DISTRIBUTION PIPING	COPPER TYPE L	SOLDERED	
WASTE AND VENT PIPING	PVC OR ABS	SOLVENT CEMENT	
CONDENSATE DRAINAGE	COPPER TYPE M	SOLDERED	
OXYGEN	COPPER TYPE L	BRAZED	(2)
MEDICAL AIR	COPPER TYPE L	BRAZED	(2)
MEDICAL VACUUM	COPPER TYPE L	BRAZED	(2)
VACUUM EXHAUST VENT	COPPER TYPE L	BRAZED	(2)
GENERATOR EXHAUST	SCH. 40 STEEL	WELDED	
GENERATOR FUEL TANK VENTS	SCH. 40 STEEL	THREADED	

- NOTES: (1) ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
  - (2) SEE P000 FOR ADDITIONAL REQUIREMENTS.

		FIX	TURE UNIT CA	LCULATIONS					
	(	CALCULATION	IS BASED ON L	JPC APPENDIX	A & CH. 7.				
FIXTURE		E UNITS		OTV		TOTAL FIX	TURE UNITS		
FIXTURE	TOTAL	CW HW		W/V	QTY	SERVICE	CW	HW	W/V
WATER CLOSET - FLUSH TANK, PUBLIC USE	2.5	2.5	0	4	2	5	5	0	8
LAVATORY	1	0.75	0.75	1	2	2	1.5	1.5	2
SHOWER	2	1.5	1.5	2	1	2	1.5	1.5	2
EXAM/TREATMENT ROOM SINK	2	1.5	1.5	2	5	10	7.5	7.5	10
WORKROOM SINK	2	1.5	1.5	2	2	4	3	3	4
SCRUB SINK	2	1.5	1.5	2	1	2	1.5	1.5	2
MOP SINK	4	3	3	3	1	4	3	3	3
BREAKROOM SINK WITH DISHWASHER	3	1.5	3	2	1	3	1.5	3	2
NURSE STATION SINK	2	1.5	1.5	2	1	2	1.5	1.5	2
ICEMAKER BOX	1	1	0	0	1	1	1	0	0
ICEMAKER BOX, WITH DRAIN	1	1	0	1	1	1	1	0	1
WASHER BOX	4	3	3	3	1	4	3	3	3
FLOOR DRAIN	0	0	0	0	1	0	0	0	0
FUNNEL FLOOR DRAIN	0	0	0	0	1	0	0	0	0
					TOTAL:	40	31	25.5	39

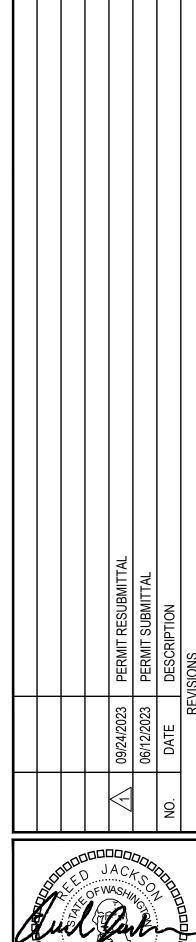
70
5
12
5
200
75
5.0
13.75
34.25

	WATE	R SUPPLY SIZING - COPPER	TYPE L							
		8 COLD, 5 HOT	2 HWC							
	MAX P	5 COLD & HOT	<2.5 HWC							
DIDE OIZE		WSFU								
PIPE SIZE	CW - FLUSH TANK	CW - FLUSH VALVE	HW	HWC						
1/2"	2.5	0	2.5	1.0						
3/4"	7.5	0	7.5	3.0						
1"	18	0	17.5	5.0						
1 1/4"	37	3.5	29	7.5						
1 1/2"	75	21	46	11						
2"	260	129	116	19						
2 1/2"	469	344	246	29						
3"	749	683	405	42						
4"	1782	1722	872	75						

		SERV	ICE SIZE (L	ΩΔD)			PLUMBING			
PLAN MARK	CW (WSFU)	HW (WSFU)	W (DFU)	V (DFU)	G (MBH)	FLOW RATE	FIXTURE TYPE	FINISH	BASIS OF DESIGN	NOTES (1)(2)(3)(4)(5)(6)
							PLU	MBING EQUIPMENT		
WH-1	1 1/4"	1 1/4"	-	-	-	-	ELECTRIC WATER HEATER	-	AO SMITH DRE-52	50 GAL, 18 kW, 680 LB. VOLTAGE PER ELECTRICAL. WALL-MOUN WITH HOLDRITE EQUIPMENT STAND 60-SWHP-WM. PROVIDE TO SERVE ADJACENT FLOOR DRAIN.
HWCP-1	-	3/4"	-	-	-	2 GPM	HOT WATER CIRC. PUMP	-	BELL & GOSSETT ECOCIRC 20-18	2 GPM AT 15', STAINLESS STEEL, SUITABLE FOR DOMESTIC WATER. 120V/1P, FHP. 20 LBS.
ET-1	-	3/4"	-	-	-	-	THERMAL EXPANSION TANK	-	AMTROL ST-12	
							PL	UMBING FIXTURES		
WC-A.1	1/2" (2.5)	-	3" (4)	2" (4)	-	1.0 GPF	WATER CLOSET	WHITE	KOHLER HIGHLINE K-3519	FLUSH TANK, FLOOR MOUNT. PROVIDE K4666 OPEN FRONT SE NO LID.
WC-A.2	1/2" (2.5)	-	3" (4)	2" (4)	-	1.0 GPF	WATER CLOSET - ADA	WHITE	KOHLER HIGHLINE K-3519	FLUSH TANK, FLOOR MOUNT. PROVIDE K4666 OPEN FRONT SE NO LID.
SK-B	1/2" (1.5)	1/2" (1.5)	2" (2)	2" (2)	-	1.5 GPM	EXAM & TREATMENT SINK, FAUCET	STAINLESS, CHROME	ELKAY DXUH1618, KOHLER K-815T70	
SK-C	1/2" (1.5)	1/2" (1.5)	2" (2)	2" (2)	-	-	SCRUB SINK	STAINLESS	MAC MEDICAL ES SERIES 25 KNEE	WITH EYEWASH. PROVIDE ASSE-1071 MIXING VALVE.
SK-D	1/2" (1.5)	1/2" (1.5)	2" (2)	2" (2)	-	1.5 GPM	CLEAN WORK ROOM SINK, FAUCET	STAINLESS, CHROME	ELKAY LRAD151765, KOLER K-815T70	
SK-E	1/2" (1.5)	1/2" (1.5)	2" (2)	2" (2)	-	1.5 GPM	SOILED WORK ROOM SINK, FAUCET	STAINLESS, CHROME	ELKAY STLR3322L, KOLER LK406HAQ8L2	
SK-F	1/2" (0.75)	1/2" (0.75)	2" (1)	2" (1)	-	0.5 GPM	PATIENT RESTROOM LAVATORY, FAUCET	WHITE, CHROME	WS BATH ENERGY 60.01, MOEN M-DURA 8417F05	PROVIDE ASSE-1070 MIXING VALVE. PROVIDE $\underline{\text{TP-2}}$ TO SERVE ADJACENT FLOOR DRAIN.
SK-G	1/2" (0.75)	1/2" (0.75)	2" (1)	2" (1)	-	1.2 GPM	STAFF RESTROOM LAVATORY, FAUCET	WHITE, CHROME	AMERICAN STANDARD 9024.001EC, ^ MOEN ALIGN 6190	PROVIDE <u>TP-2</u> TO SERVE ADJACENT FLOOR DRAIN.
SH-G	1/2" (1.5)	1/2" (1.5)	2" (2)	2" (2)	-	1.75 GPM	STAFF SHOWER, HANDSHOWER, SHOWER TRIM	WHITE, MATTE BLACK, MATTE BLACK	AQUATIC 136BFSC, KOLER K-99899-G, KOHLER K-T10940	ADA COMPLIANT. PROVDE ASSE-1016 SHOWER VALVE WITH SCREWDRIVER STOPS.
SK-I	1/2" (1.5)	1/2" (3)	2" (2)	2" (2)	-	1.8 GPM	BREAKOOM SINK, FAUCET	STAINLESS, CHROME	ELKAY LRAD-252155, DELTA 9192-DST	WITH DISHWASHER AND 3/4HP GARBAGE DISPOSAL.
SK-J	3/4" (3)	3/4" (3)	2" (3)	3" (3)	-	-	MOP SINK, FAUCET	TERAZZO, CHROME	ACORN 24x24, AMERICAN STANDARD 8344.212	
SK-K	) 1/2" ) (1.5)	1/2" (1.5)	2" (2)	2" (2)	-	1.5 GPM	NURSE STATION SINK, FAUCET	STAINLESS, CHROME	ELKAY LRAD131665, ELKAY LK406HA08L2	
WB-1	1/2" (3)	1/2" (3)	2" (3)	2" (3)	-	-	WASHER BOX	WHITE	SIOUX CHIEF	WITH WATER HAMMER ARRESTORS.
IB-1	1/2" (1)	-	-	-	-	-	ICEMAKER BOX	WHITE	SIOUX CHIEF	WITH WATER HAMMER ARRESTORS.
IB-2	1/2" (1)	-	2" (1)	2" (1)	-	-	ICEMAKER BOX WITH DRAIN	WHITE	SIOUX CHIEF	WITH WATER HAMMER ARRESTORS.
FD-1	-	-	2" (0)	2" (0)	-	-	FLOOR DRAIN	NICKLE-BRONZE	WATTS FD-100-B	CAST IRON. PROVIDE TRAP PRIMER.
FD-2	-	-	2" (0)	2" (0)	-	-	FUNNEL FLOOR DRAIN	NICKLE-BRONZE	WATTS FD-100-EG	CAST IRON. PROVIDE TRAP PRIMER.
TP-1	1/2" (0)	-	-	-	-	-	TRAP PRIMER	-	PPP SMP-500-115V	ELECTRONICALLY OPERATED, 120V/1P.
TP-2	1/2" (0)	-	-	-	-	-	TRAP PRIMER	CHROME	SIOUX CHIEF	LAVATORY TAILPIECE TRAP PRIMER.

- NOTES: (1) REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
  - (2) FLUSH TRIGGER SHALL BE ON WIDE SIDE OF ROOM.
  - (3) CONTRACTOR SHALL CONFIRM MAKE, MODEL, AND FINISH OF ALL FIXTURES WITH OWNER PRIOR TO ORDERING.
  - (4) ALL EXPOSED P-TRAPS SHALL BE CHROME PLATED BRASS.
  - (5) PROVIDE  $\frac{1}{4}$  TURN ANGLE STOPS WITH BRAIDED STAINLESS STEEL FLEX CONNECTORS AT HOT AND COLD WATER SUPPLY TO EACH FIXTURE.
  - (6) PROVIDE ASSE-1070 MIXING VALVES SET TO 100°F AND METERING FAUCETS AT ALL PUBLIC-USE LAVATORIES.

			MEDICAL	_ GAS EQUIPMENT SCHEDULE	
PLAN MARK	EQUIP / FIXTURE TYPE	SERVICE	BASIS OF DESIGN	NOTES	
VAC-1	DUPLEX VACUUM PUMP	PER PLANS	AMICO V-RVD-D-030P	DUPLEX, 1.7HP. OILESS. 8 CFM AT 19"Hg. 585 LBS. 208V/3P/16A.	
MGO-1	MEDICAL GAS OUTLET	PER PLANS	AMICO	WALL MOUNT. 2xO2, 2xVAC, 1xMA, 1xWAGD.	
MGO-2	MEDICAL GAS OUTLET	PER PLANS	AMICO	WALL MOUNT. 1xVAC.	
MGO-3	MEDICAL GAS OUTLET	PER PLANS	AMICO	WALL MOUNT. 2xVAC.	
MGO-4	MEDICAL GAS OUTLET	PER PLANS	AMICO	WALL MOUNT. 2xO2, 1xVAC, 1xMA, 1xWAGD.	
ZVB-1	ZONE VALVE BOX	ASF06	AMICO ZIU-P113		
ZVB-2	ZONE VALVE BOX	ASF07	AMICO ZIU-P113		
ALARM-1	MEDGAS ALARM PANEL	ALL	AMICO		
MAN-1	CYLINDER MANIFOLD	OXYGEN	AMICO M4D-DL-HH-U-OXY		
MAN-2	CYLINDER MANIFOLD	MEDICAL AIR	AMICO M4D-DL-HH-U-AIR		



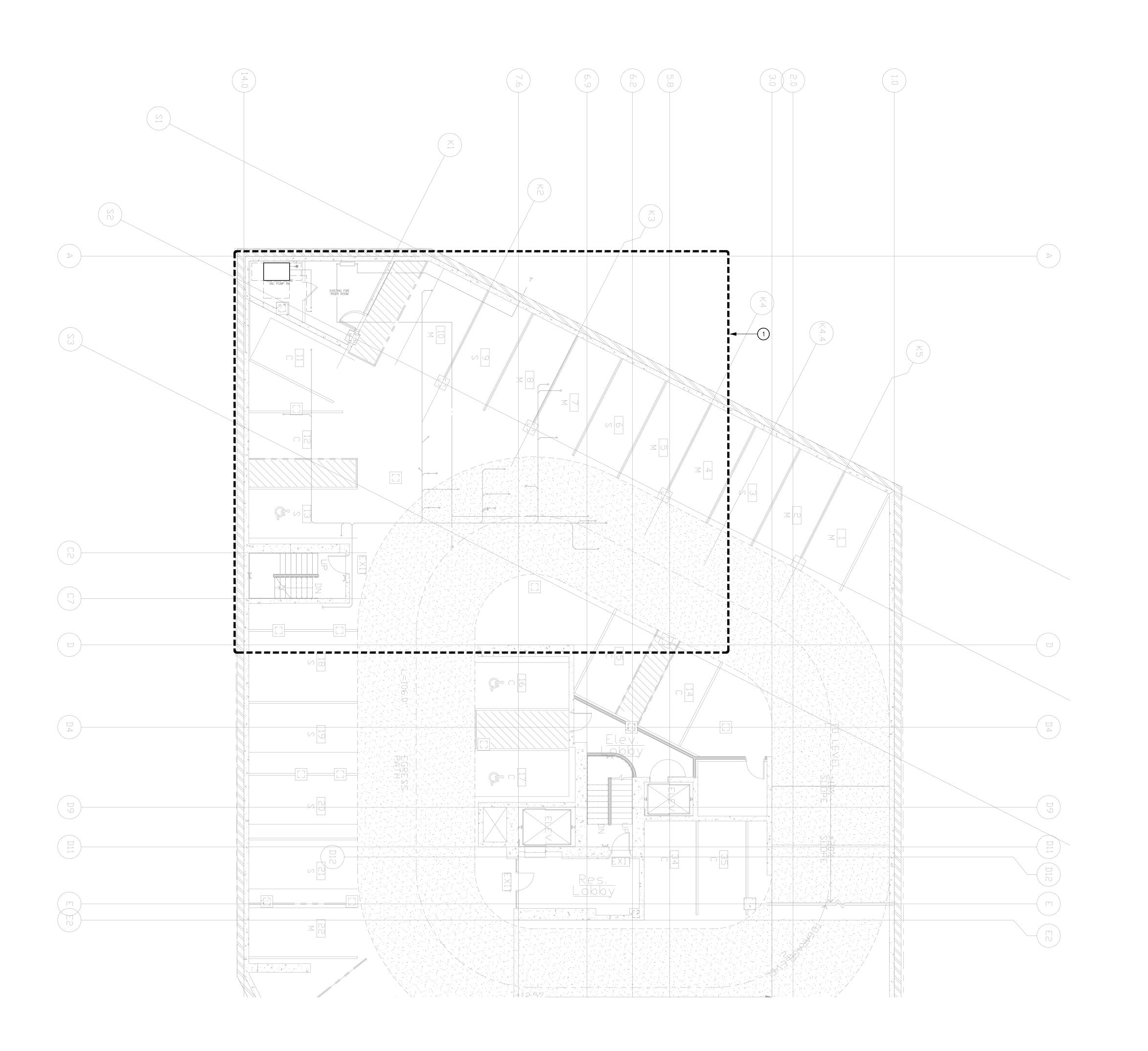


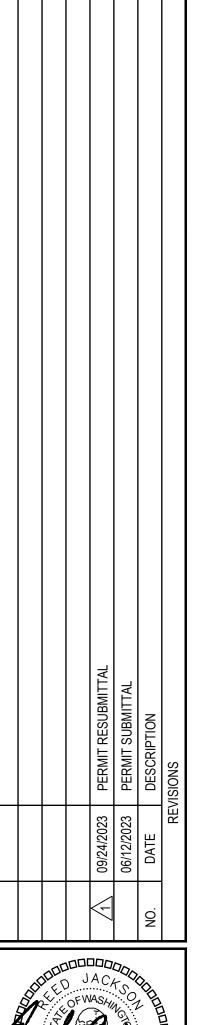
GENERAL CONTRACTORS

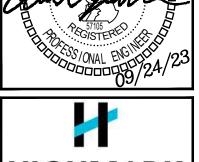
AMADI AESTHETICS ASF

DATE: 06/12/2023

SHEET TITLE: SCHEDULES







AMADI AESTHETICS ASF

DATE: 06/12/2023

SHEET TITLE: LEVEL G1 PLAN

KEY NOTES

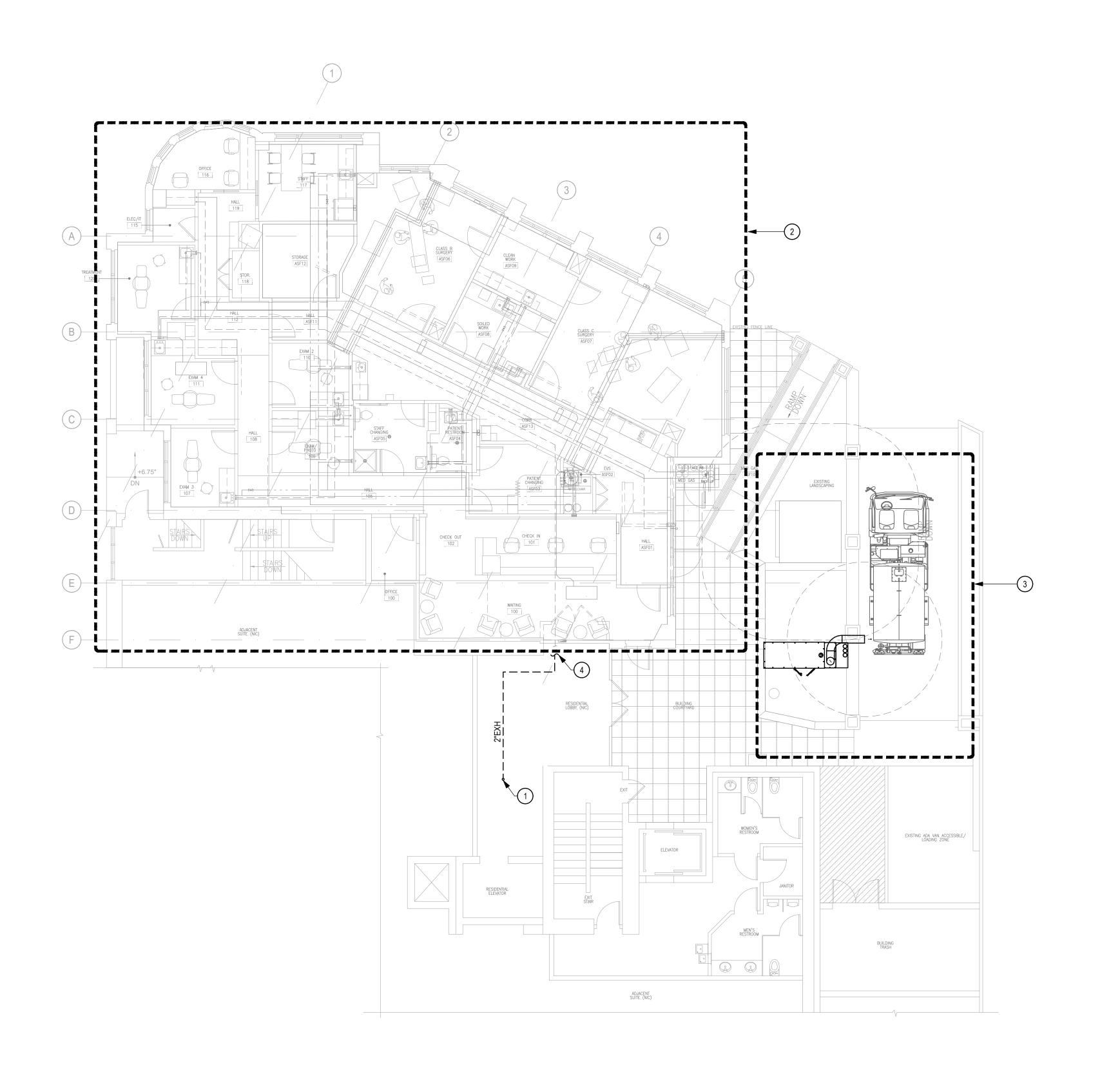
1. AREA OF WORK: SEE P400, P500, P600 FOR ENLARGED LEVEL G1 PLUMBING PLANS.

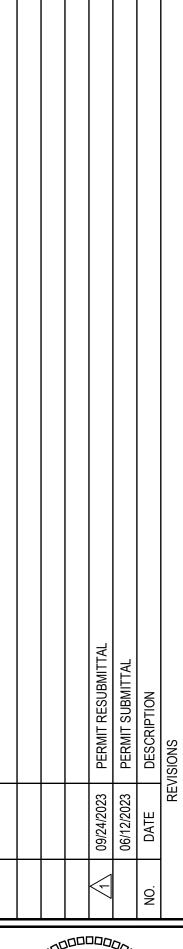
LEVEL G1 PLAN

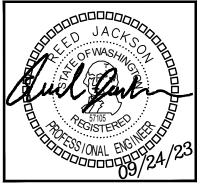
SCALE: 1/8" = 1'-0"

0' 4' 8'

SHEET NO. P20G1









DATE: 06/12/2023

SHEET TITLE: LEVEL 1 PLAN

SHEET NO.

LEVEL 1 PLAN

SCALE: 1/8" = 1'-0"

2. AREA OF WORK: SEE P401, P501, P601 FOR ENLARGED L1 PLUMBING PLANS.

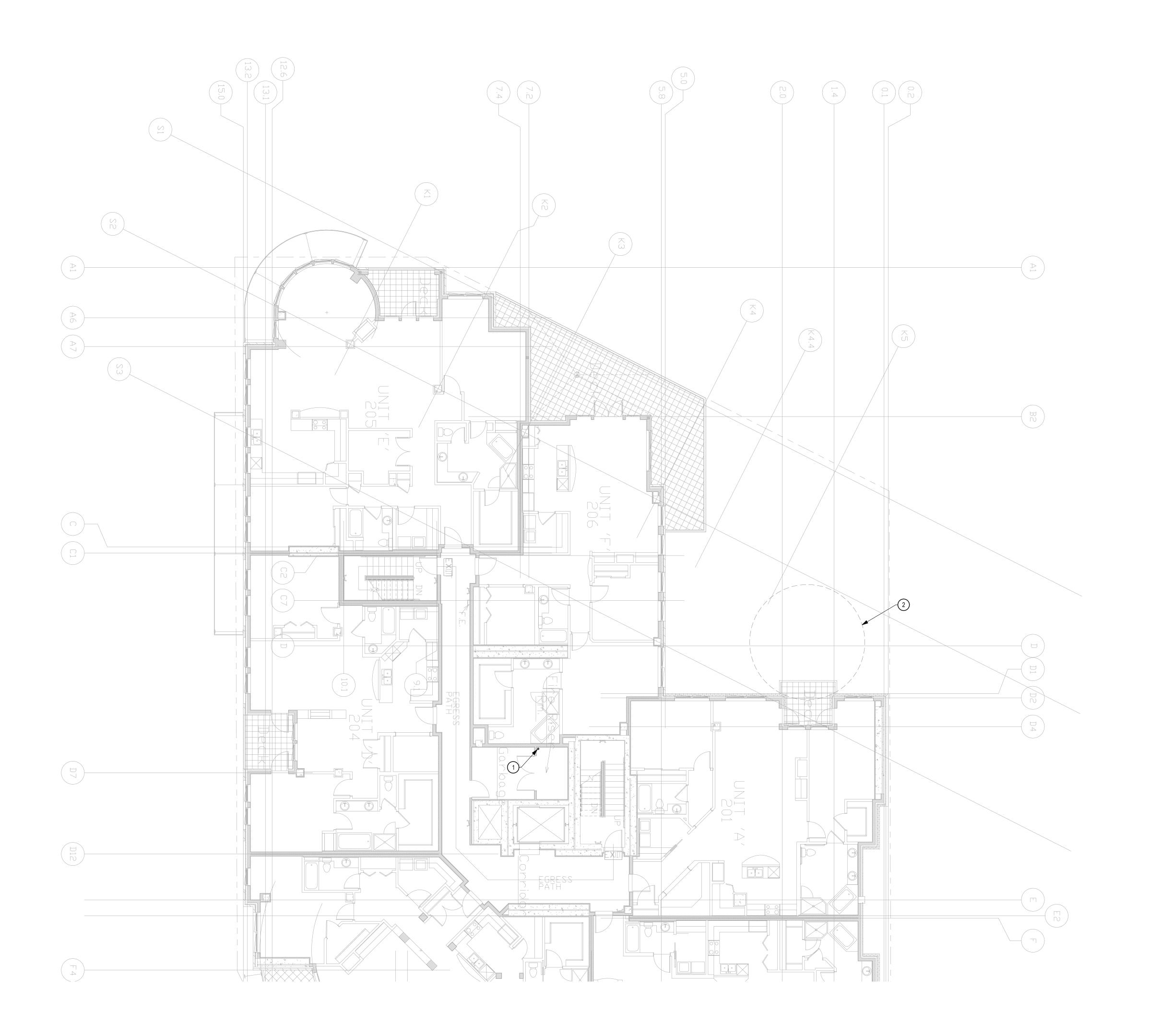
KEY NOTES

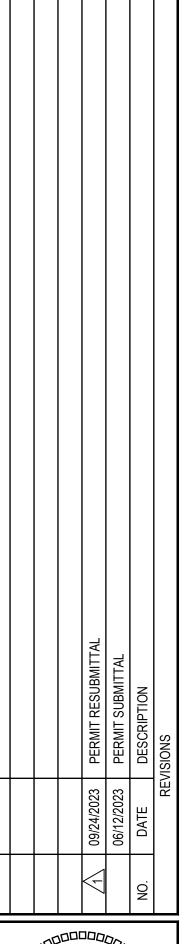
1. 2" VACUUM EXHAUST TO ROOF.

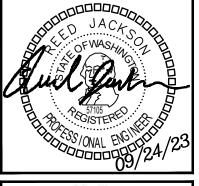
0' 4' 8'

3. SEE P300 FOR ENLARGED COURTYARD PLAN.

4. VACUUM EXHAUST, SEE P601 FOR CONTINUATION.









DATE: 06/12/2023

KEY NOTES

1. 2" VACUUM EXHAUST TO ROOF.

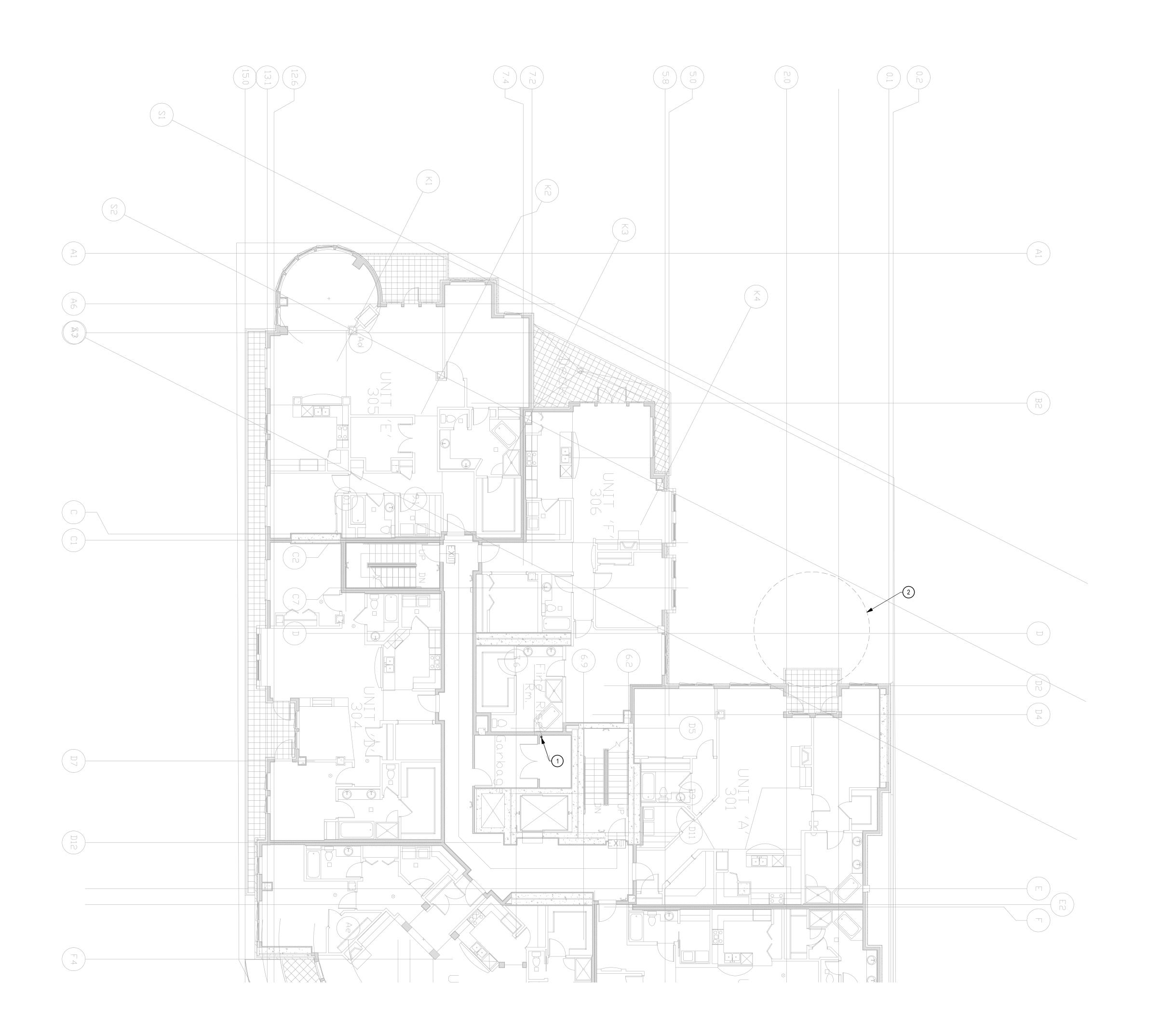
LEVEL 2 PLAN

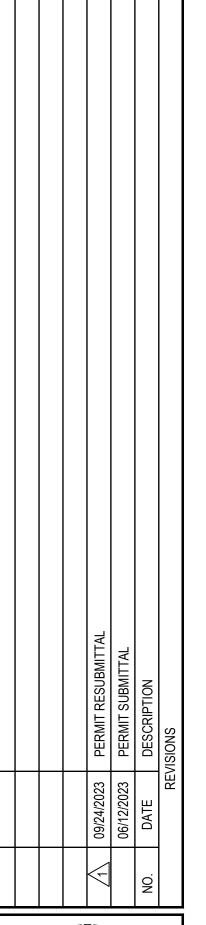
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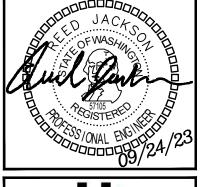
0' 4' 8'

2. GENERATOR EXHAUST CLEARANCE ZONE.

SHEET TITLE: LEVEL 2 PLAN







19401 4OTH AVE W. SUITE 302 LYNNWOOD, WA 98036 PHONE:(206)364-3343 CONTACT: REED JACKSON

THE ST, MERCER ISLAND WA

PROJECT: AMADI AESTHETICS
ASF
7800 SE 27th ST, MERCER ISLAND WA

DATE: 06/12/2023

SHEET TITLE: LEVEL 3 PLAN

KEY NOTES

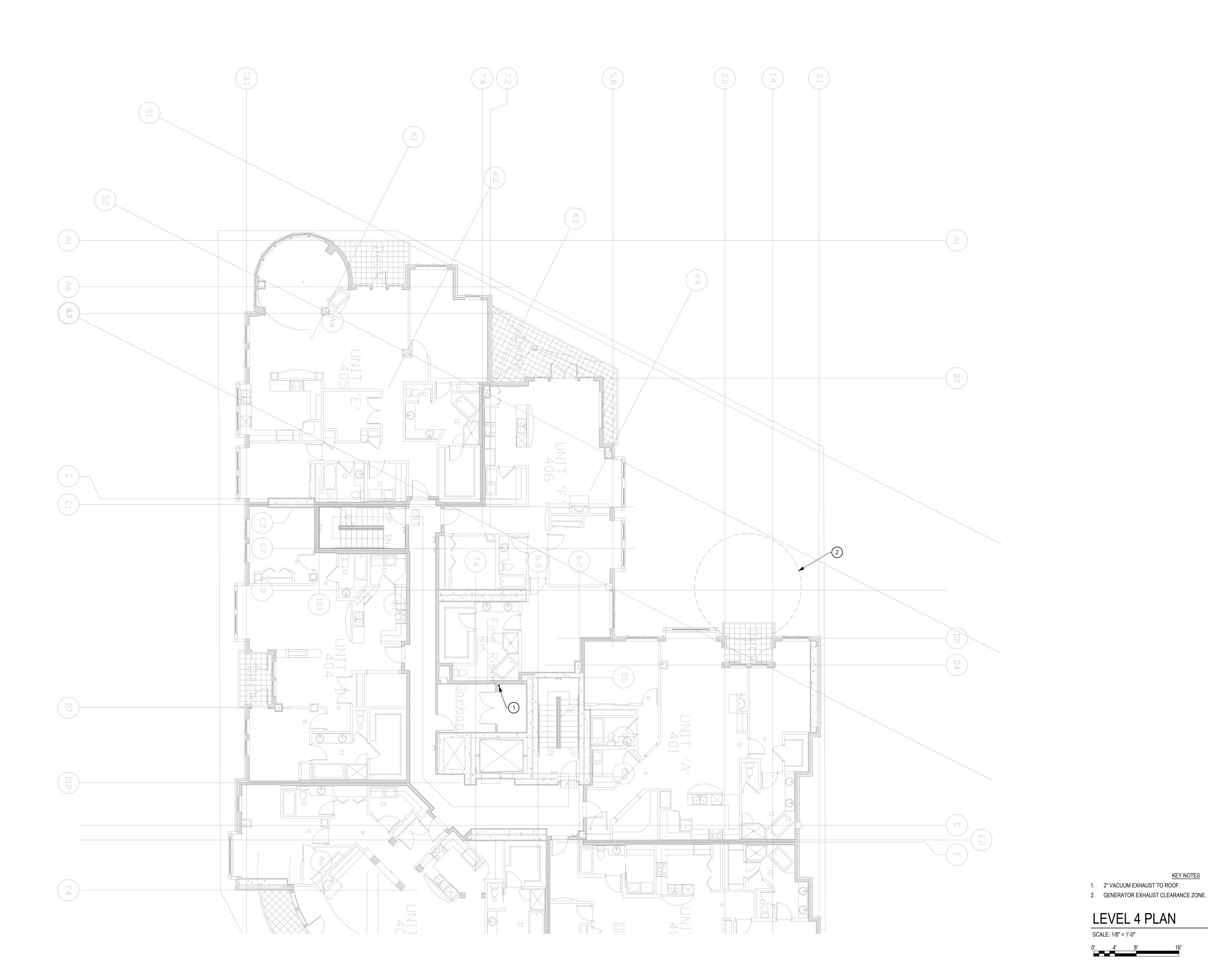
1. 2" VACUUM EXHAUST TO ROOF.

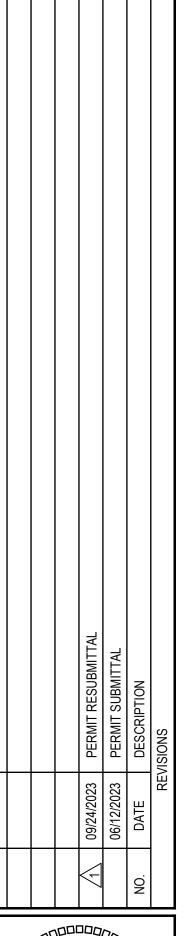
LEVEL 3 PLAN

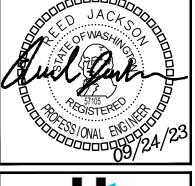
SCALE: 1/8" = 1'-0"

0' 4' 8'

2. GENERATOR EXHAUST CLEARANCE ZONE.



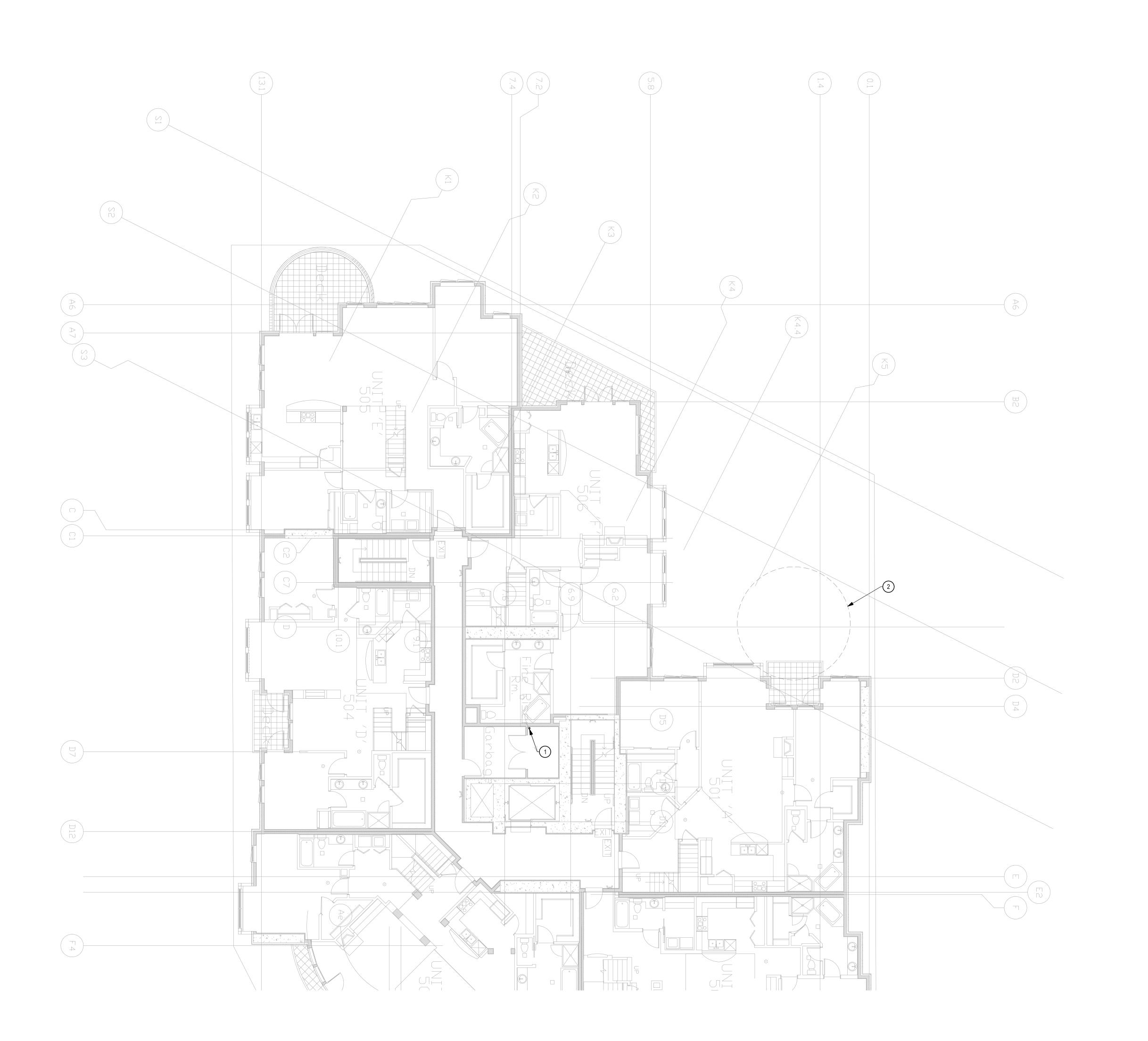


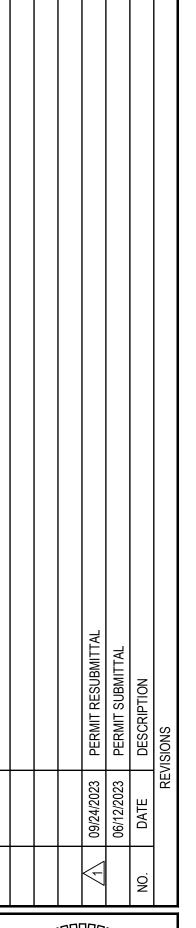


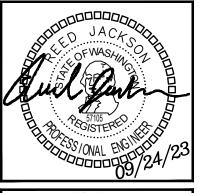
AMADI AESTHETICS ASF

DATE: 06/12/2023

SHEET TITLE: LEVEL 4 PLAN







AMADI AESTHETICS ASF

DATE: 06/12/2023

SHEET TITLE: LEVEL 5 PLAN

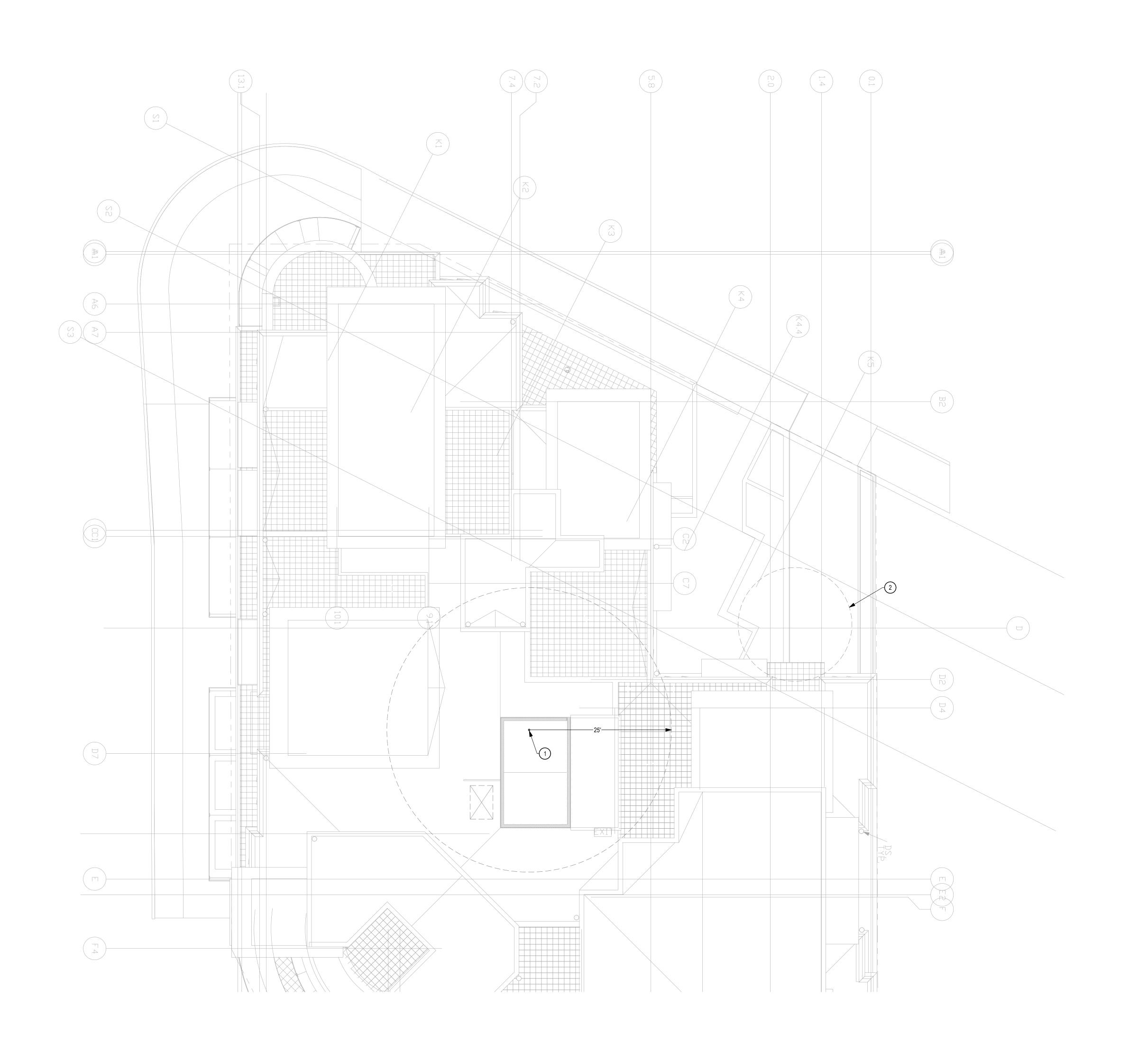
KEY NOTES1. 2" VACUUM EXHAUST TO ROOF.

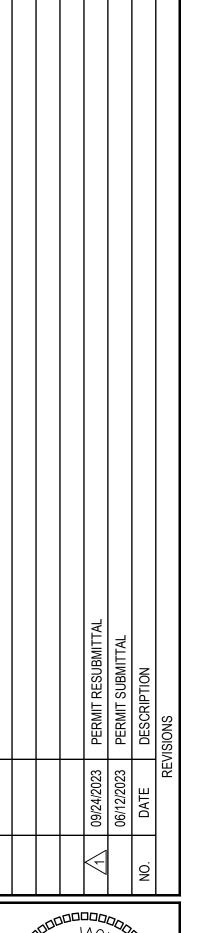
2. GENERATOR EXHAUST CLEARANCE ZONE.

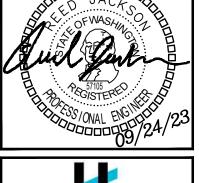
LEVEL 5 PLAN

SCALE: 1/8" = 1'-0"

0' 4' 8'







AMADI AESTHETICS ASF

DATE: 06/12/2023

SHEET TITLE: ROOF PLAN

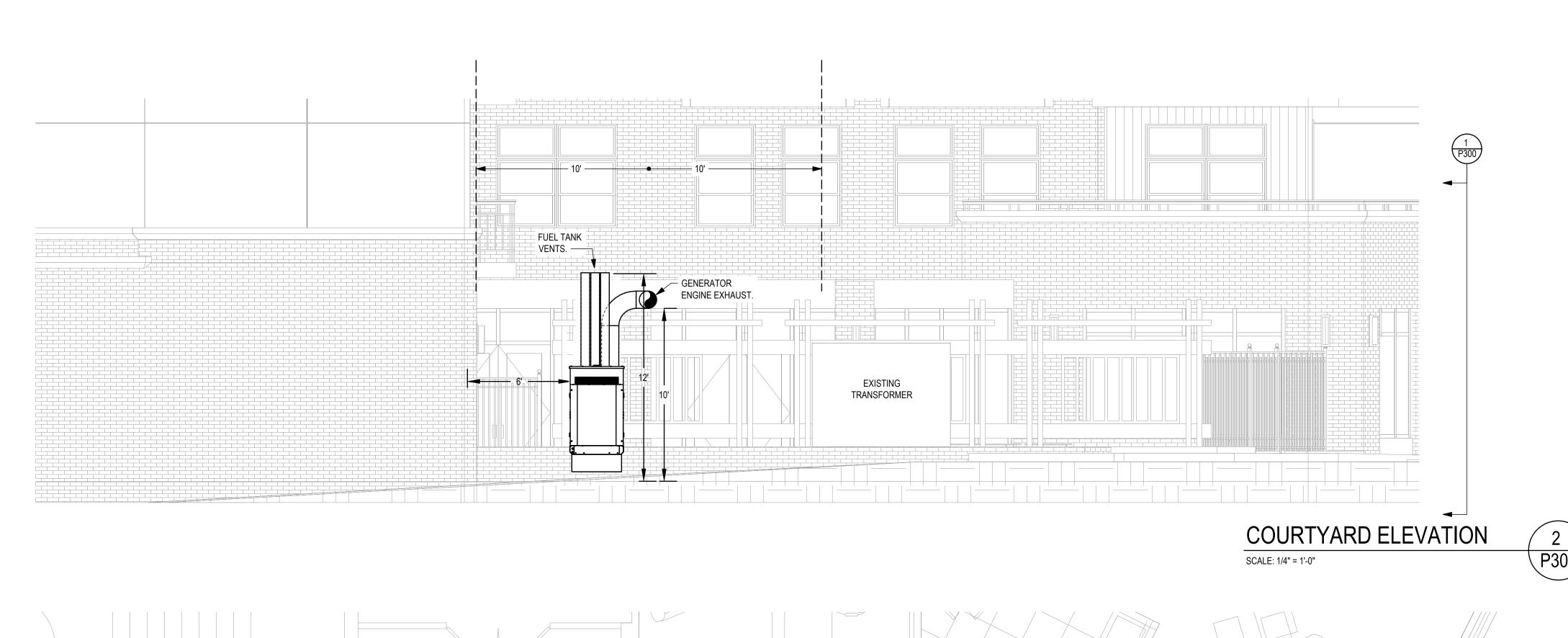
KEY NOTES

1. 2" VACUUM EXHAUST OUTLET WITH GOOSENECK AND SCREENED OPENING, MIN. 25' FROM BUILDING OPENINGS OR AIR INTAKES.

2. GENERATOR EXHAUST CLEARANCE ZONE.

ROOF PLAN

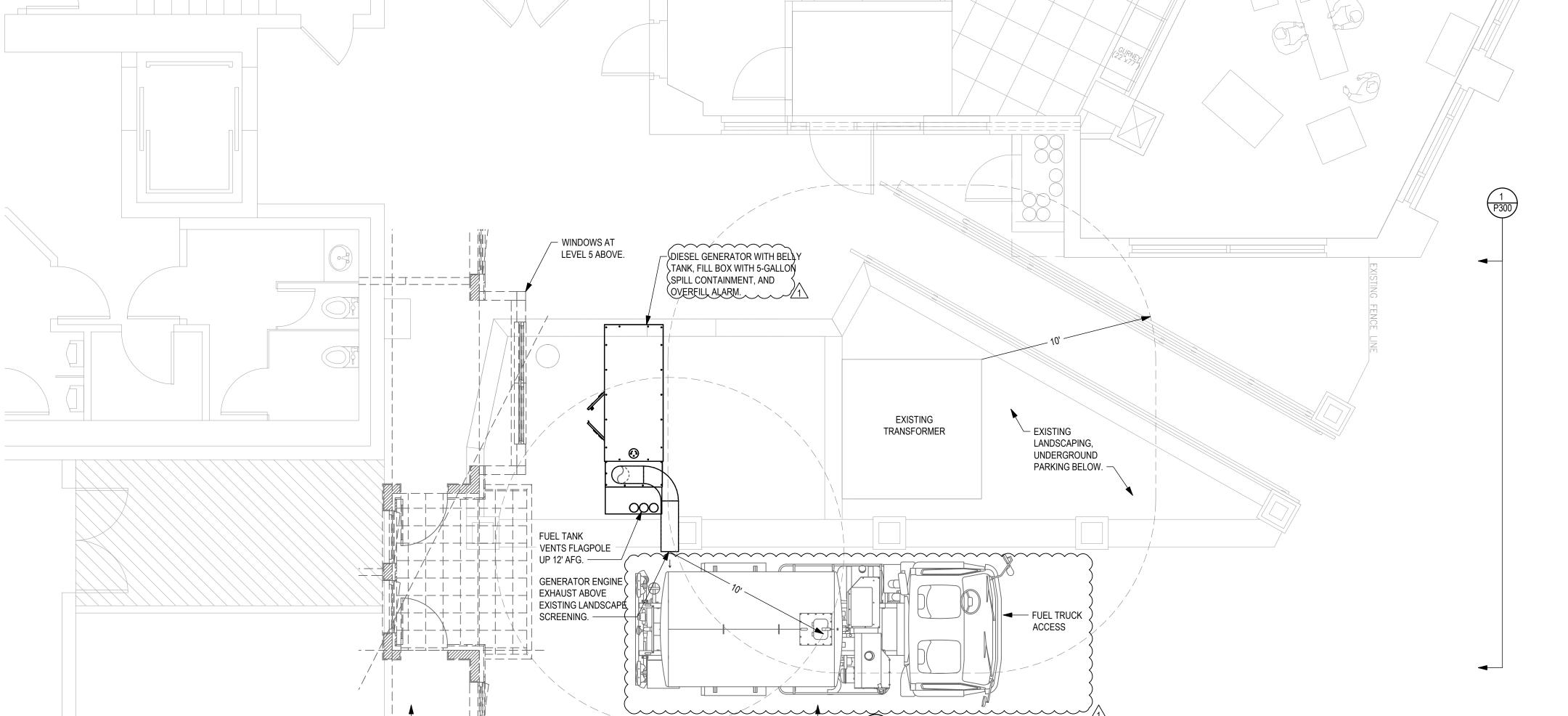
SCALE: 1/8" = 1'-0"





STREET VIEW NTS

P300





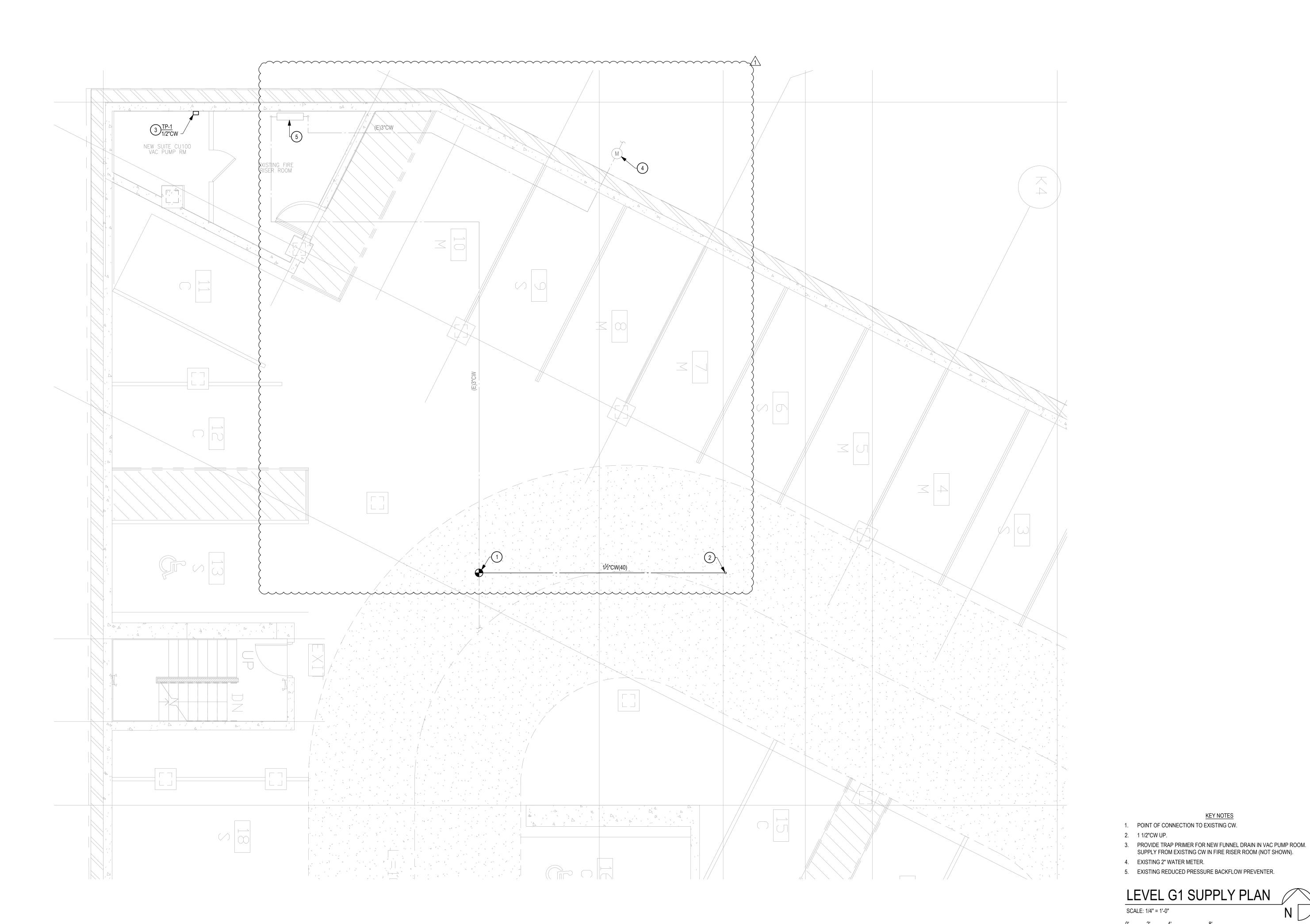
HIGHMARK GENERAL CONTRACTORS

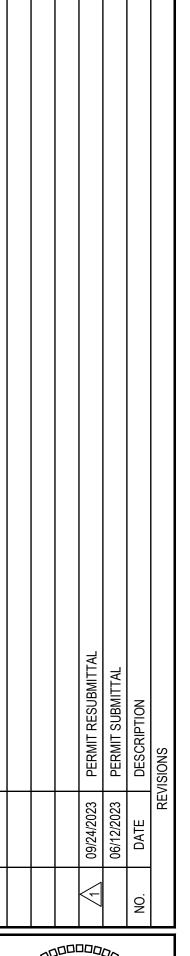
AMADI AESTHETICS ASF

DATE: 06/12/2023

SHEET TITLE: ENLARGED COURTYARD

COURTYARD PLAN ZSCALE: 1/4" = 1'-0"



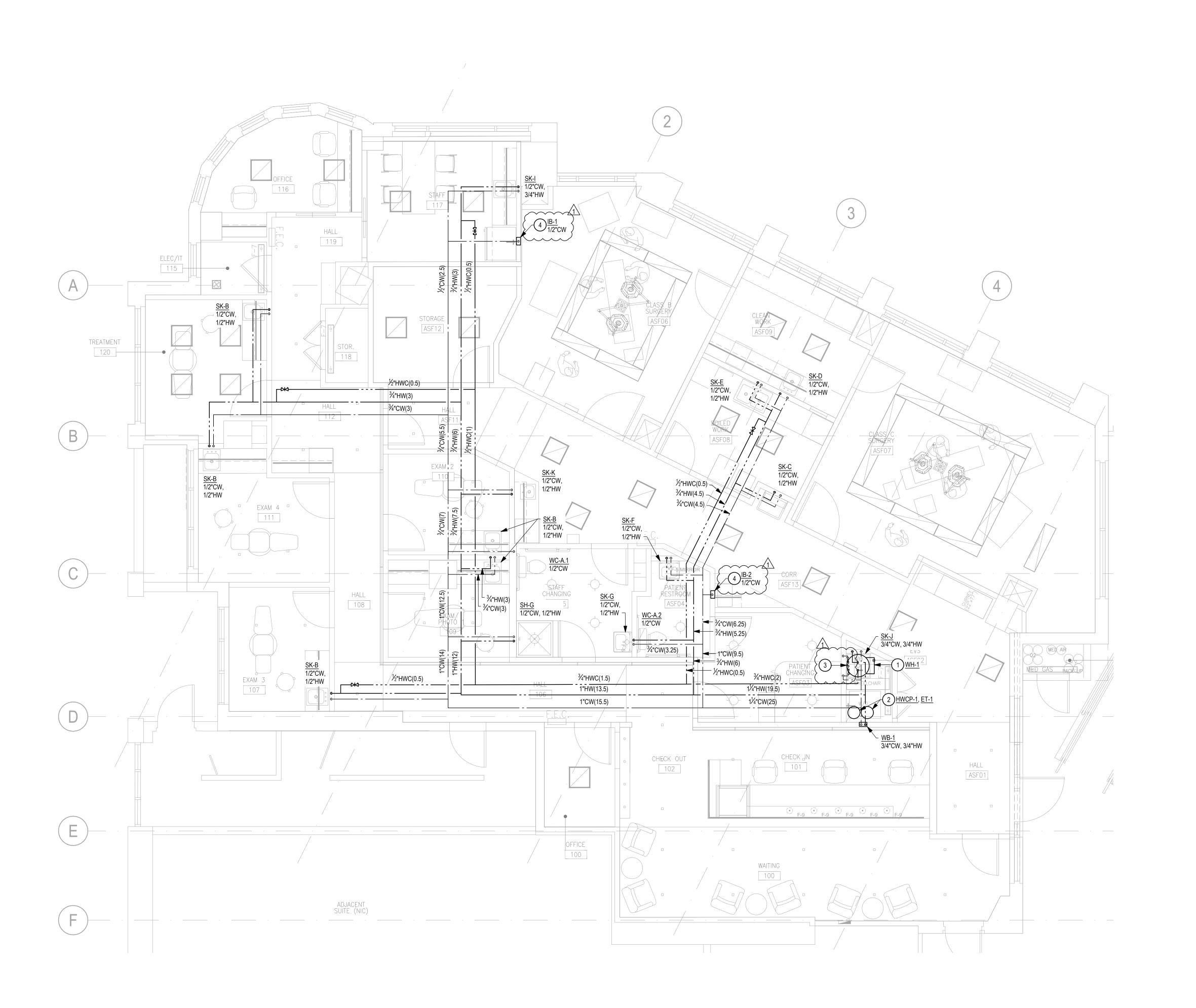


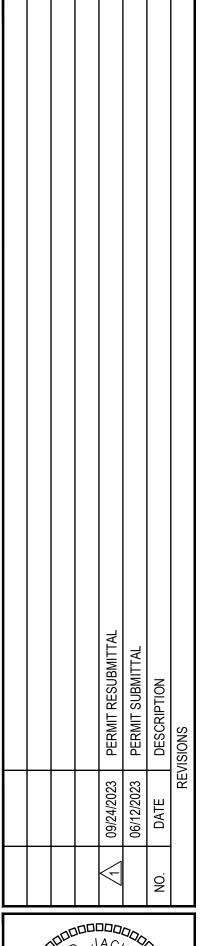


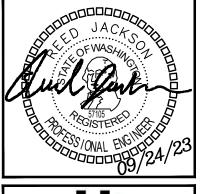


DATE: 06/12/2023

SHEET TITLE: LEVEL G1 SUPPLY PLAN







AMADI AESTHETICS ASF

DATE: 06/12/2023

KEY NOTES 1. 1 1/4"CW & 1 1/4"HW TO WALL MOUNT WATER HEATER ABOVE MOP SINK.

2. CIRCULATION PUMP AND EXPANSION TANK ABOVE WASHER/DRYER.

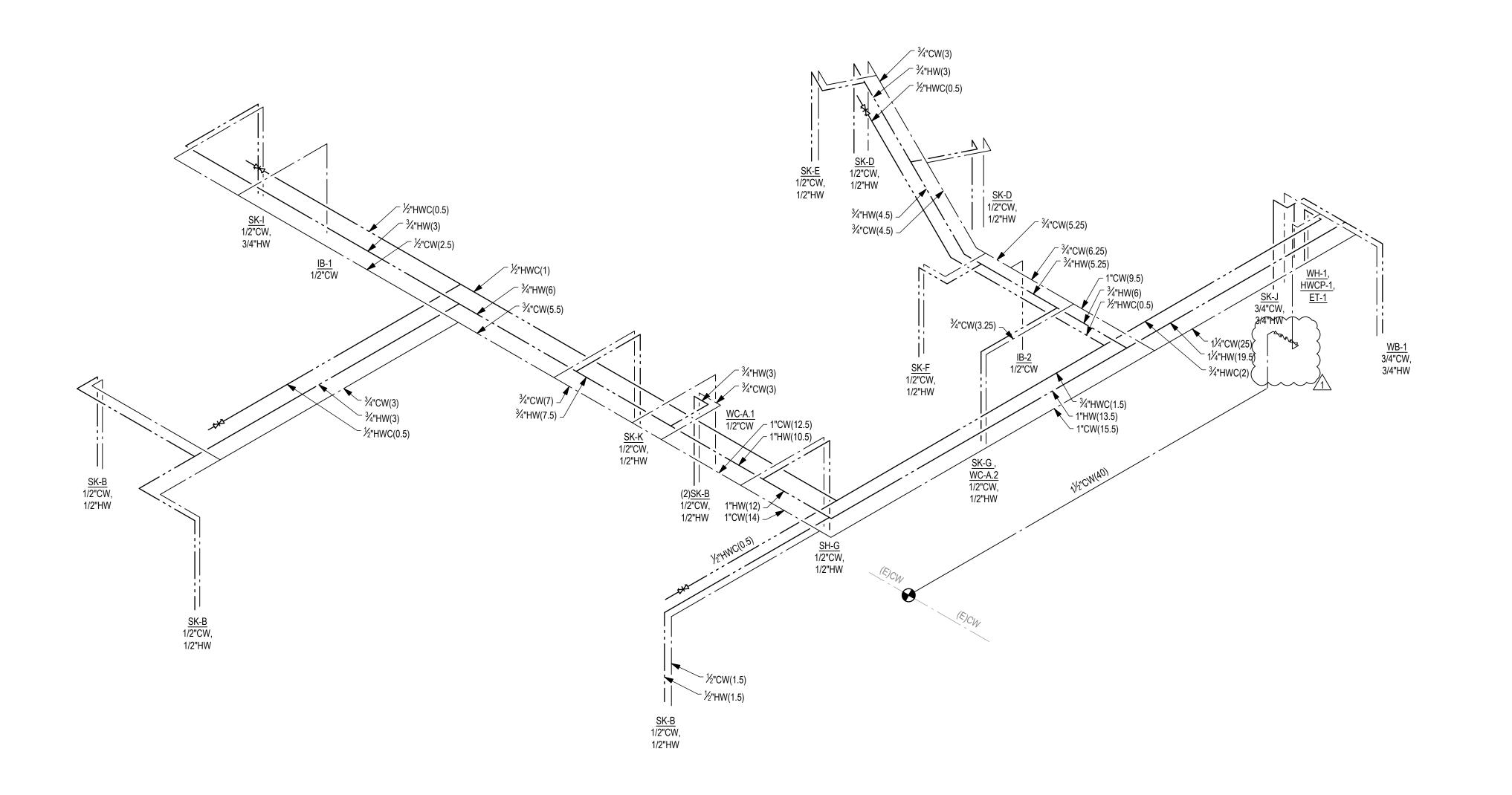
4. PROVIDE ASSE-1022 BACKFLOW PREVENTER AT ICE MACHINE.

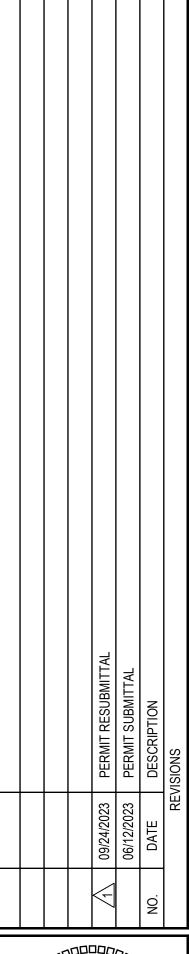
LEVEL 1 SUPPLY PLAN

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

3. 1 1/2" WATER SERVICE FROM LEVEL G1, WITH N-PATTERN REDUCED PRESSURE BACKFLOW PREVENTER ABOVE MOP SINK.

SHEET TITLE: LEVEL 1 SUPPLY PLAN





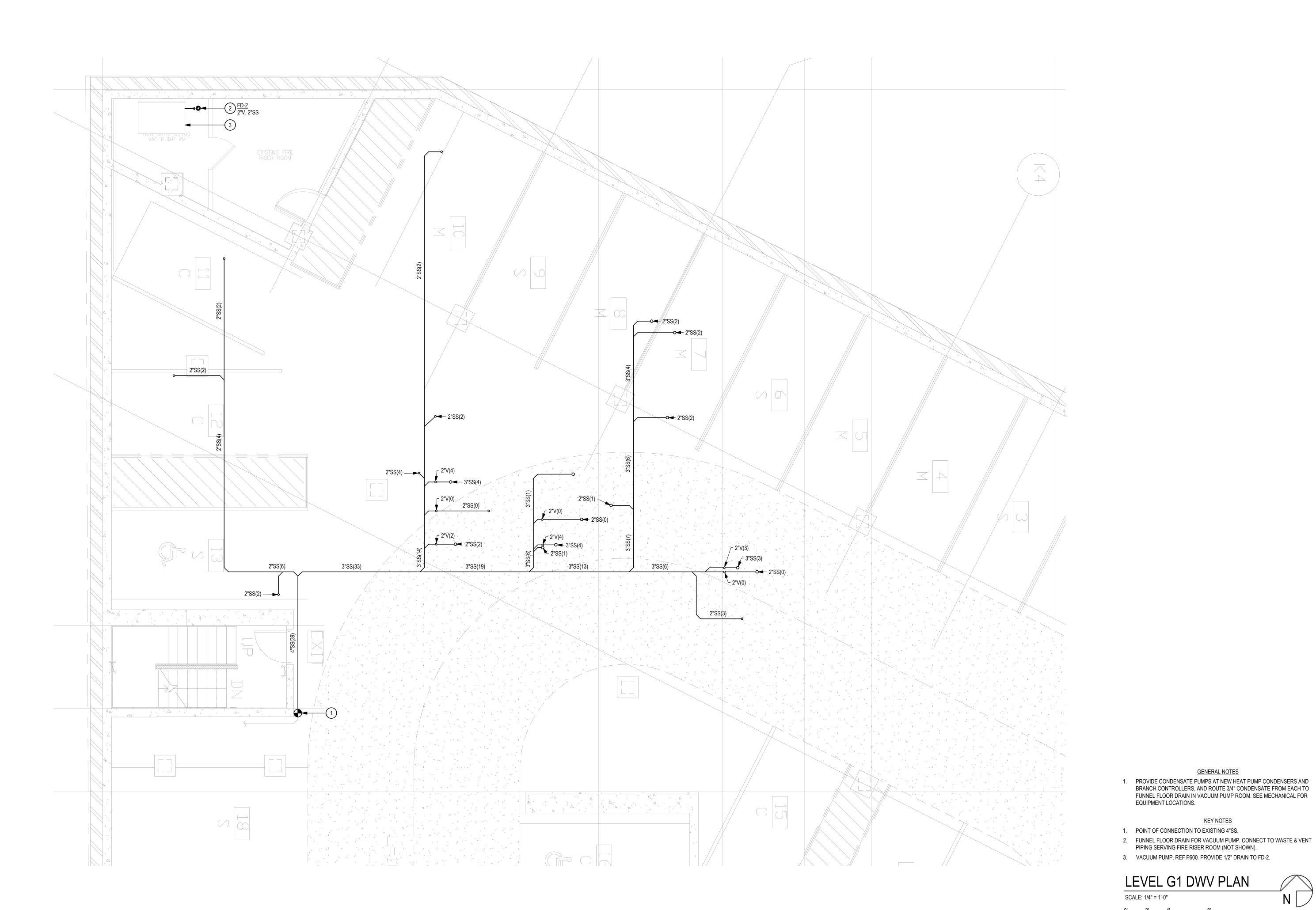


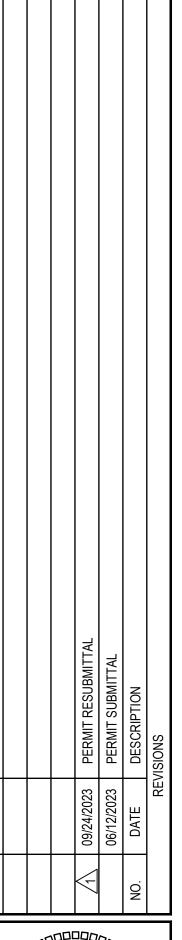


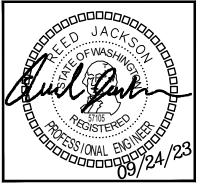
DATE: 06/12/2023

SHEET TITLE: SUPPLY PIPING DIAGRAM

SUPPLY PIPING DIAGRAM









DATE: 06/12/2023

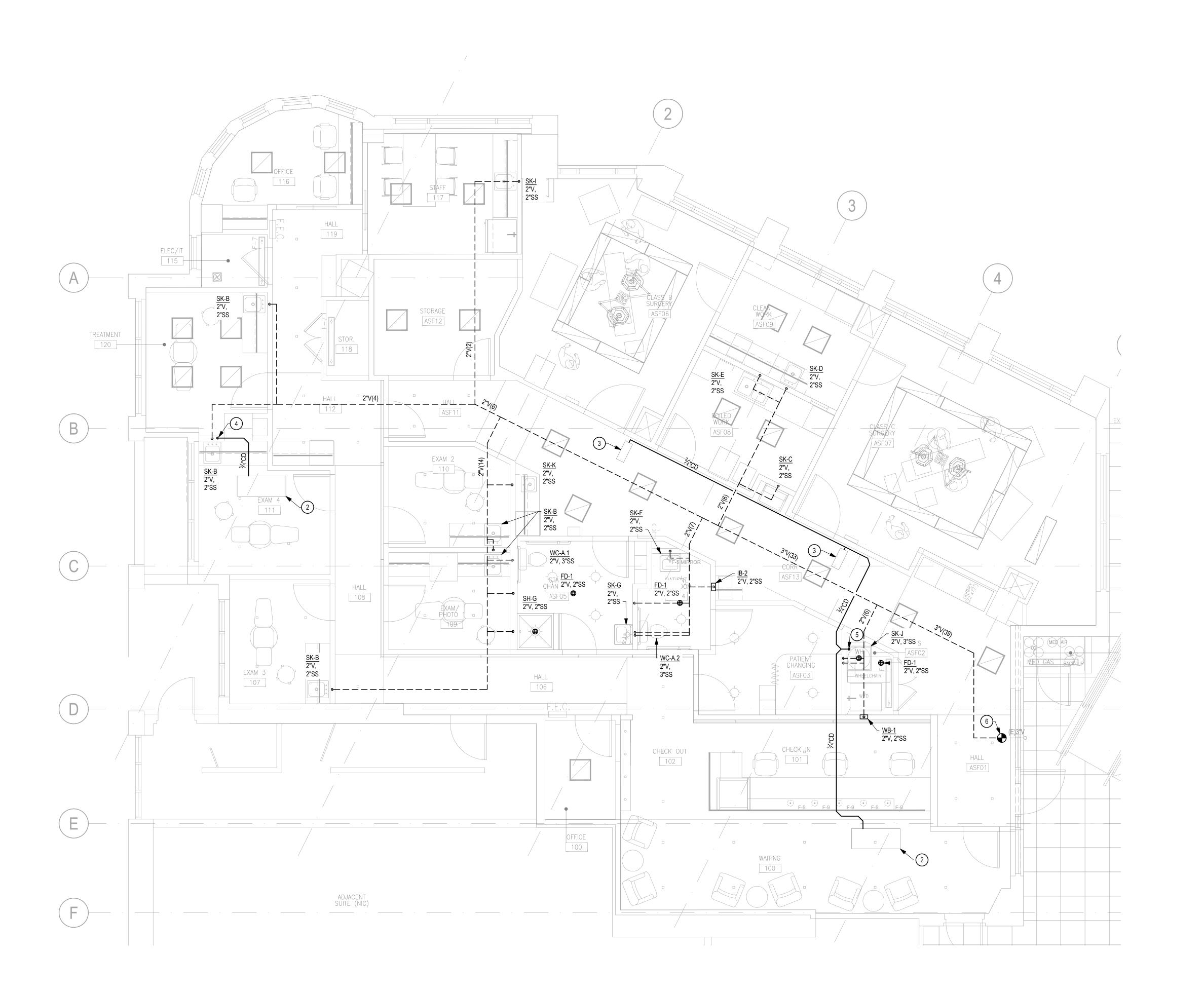
SHEET TITLE: LEVEL G1 DWV PLAN

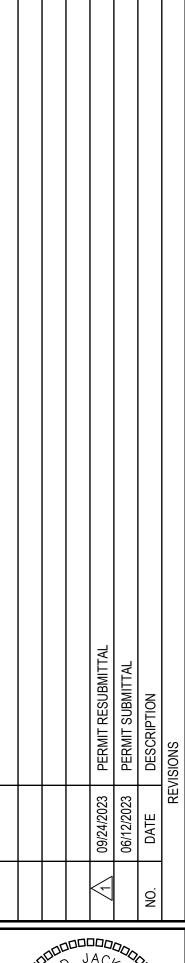
SHEET NO.

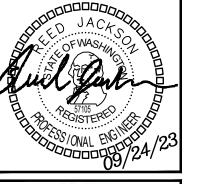
LEVEL G1 DWV PLAN

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

GENERAL NOTES









DATE: 06/12/2023

SHEET TITLE: LEVEL 1 DWV PLAN

LEVEL 1 DWV PLAN

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

6. POINT OF CONNECTION TO EXISTING VENT TERMINATION THROUGH WALL.

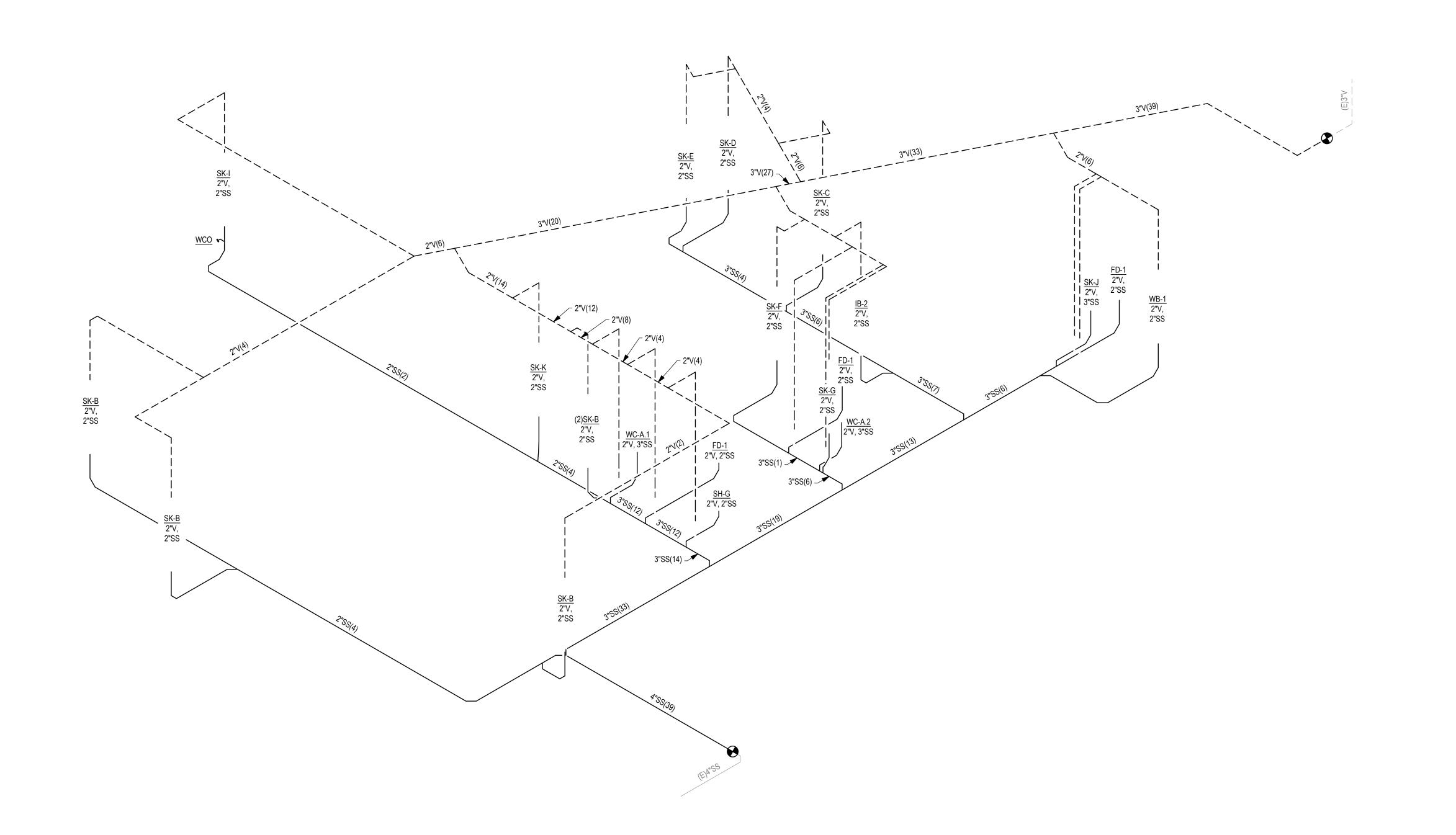
1. PROVIDE WALL CLEANOUTS BELOW ALL SINKS (NOT SHOWN).

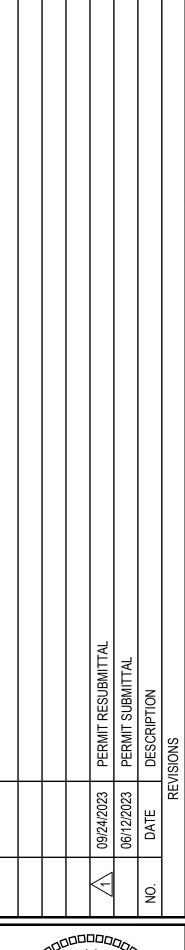
1. TERMINATE VENT THROUGH ROOF OF MEDGAS CLOSET.

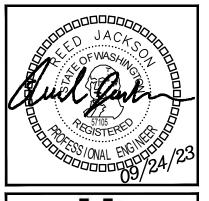
4. TERMINATE CONDENSATE AT SINK TAILPIECE.

5. TERMINATE CONDENSATE AT MOP SINK.

2. HEAT PUMP, REF. MECHANICAL. 3. COOLING COIL, REF. MECHANICAL.









19401 4OTH AVE W. SUITE 302 LYNNWOOD, WA 98036 PHONE:(206)364-3343 CONTACT: REED JACKSON

ROBISON I

PROJECT: AMADI AESTHETICS
ASF
7800 SE 27th ST, MERCER ISLAND WA

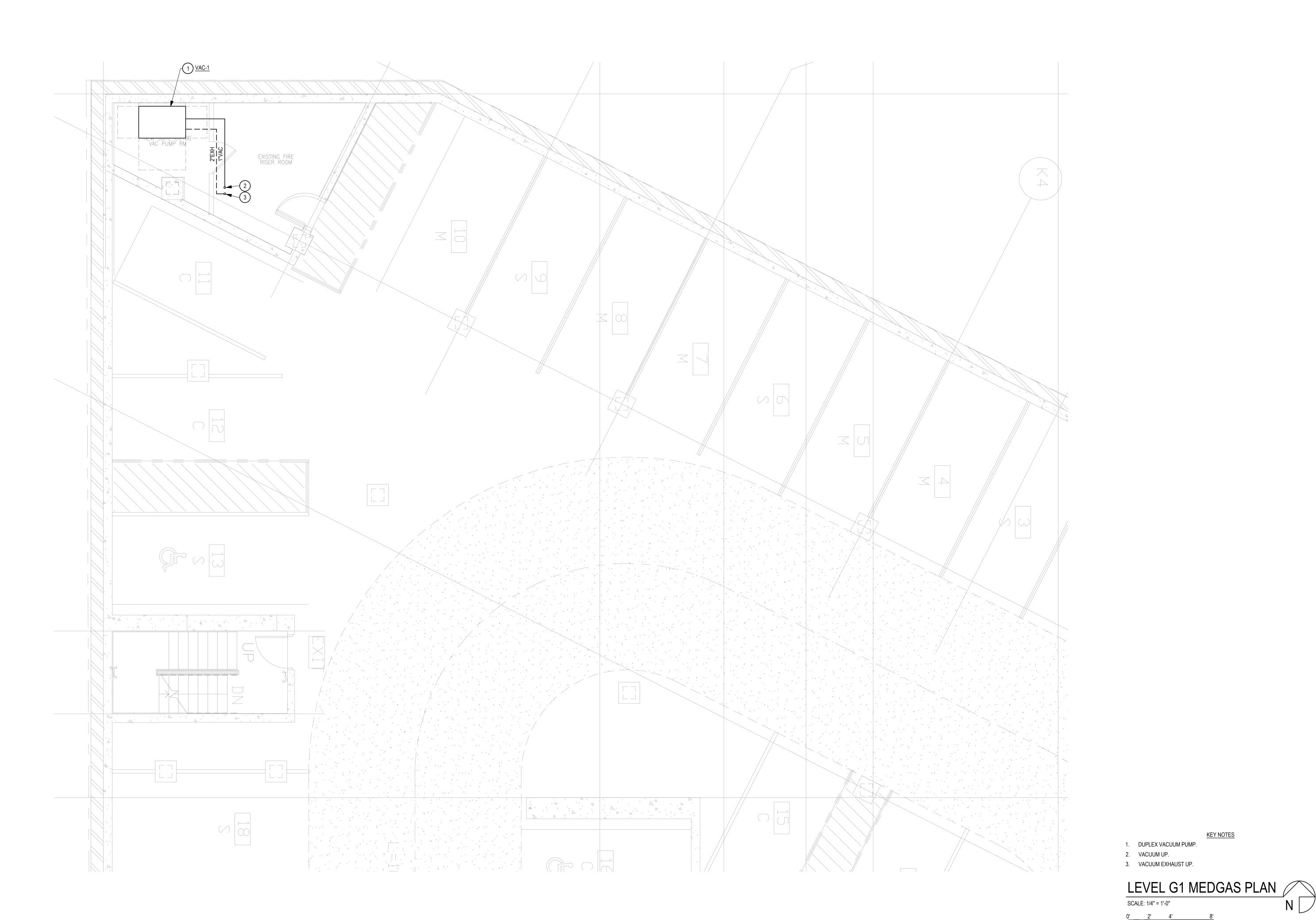
DATE: 06/12/2023

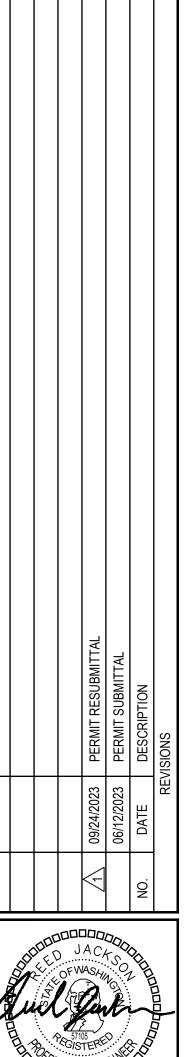
> SHEET TITLE: DWV PIPING DIAGRAM

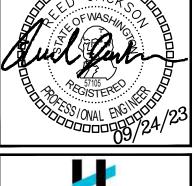
OUEET

DWV PIPING DIAGRAM

SHEET NO. **P502** 



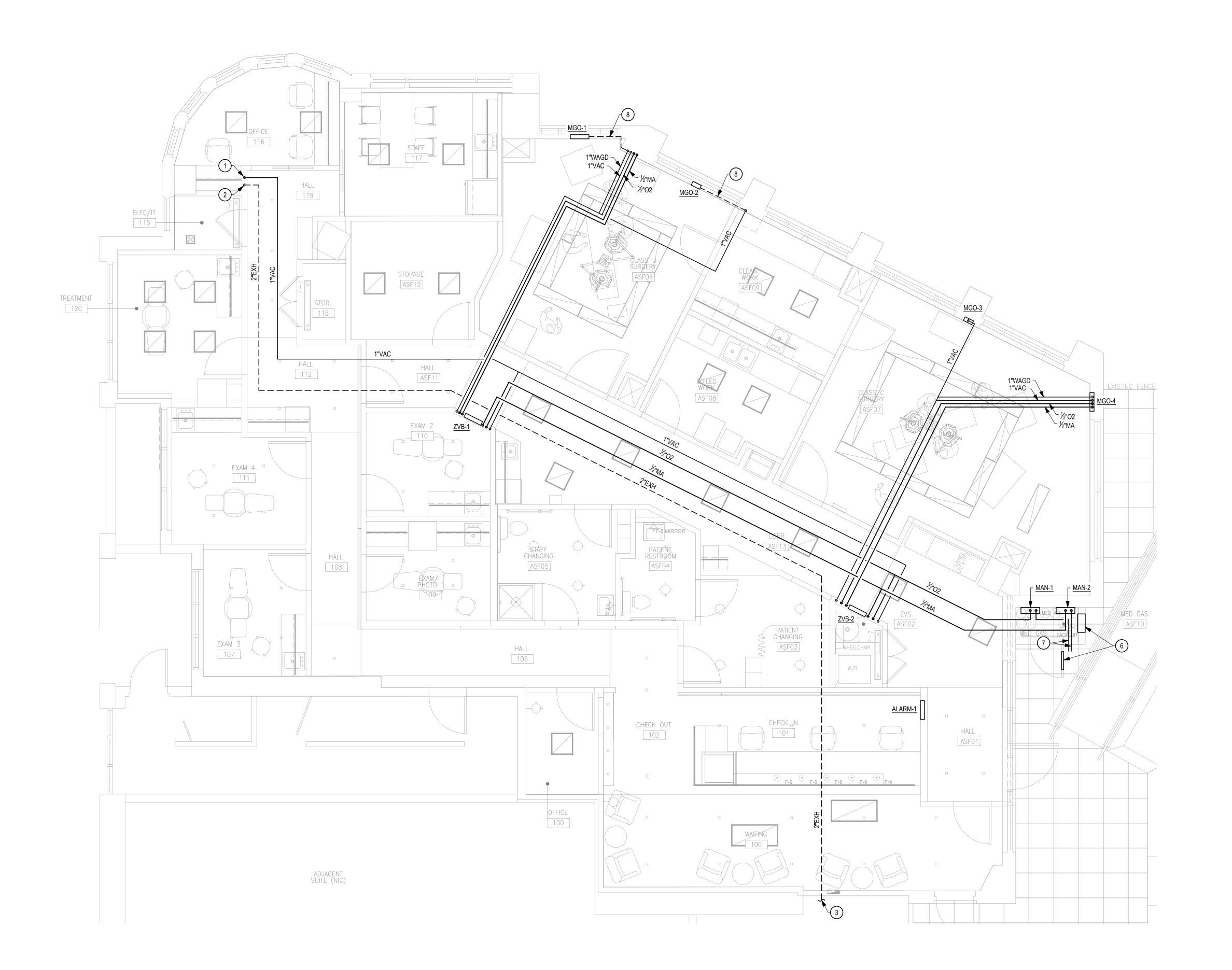


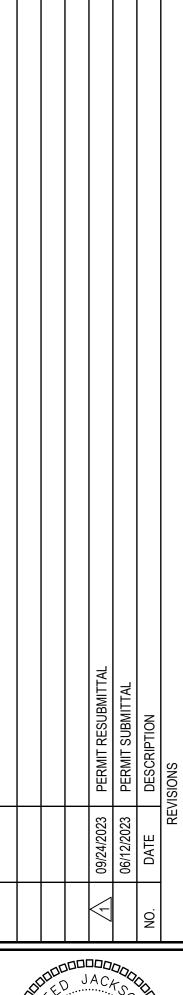


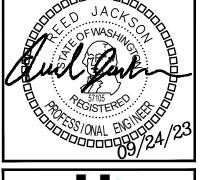


DATE: 06/12/2023

SHEET TITLE: LEVEL G1 MEDGAS PLAN









SEE MEDICAL GAS EQUIPMENT SCHEDULE ON P001 FOR REQUIRED QTY.
 OF GAS OUTLETS AT EACH LOCATION.

 SEE MEDICAL GAS NOTES ON P000 FOR ADDITIONAL SYSTEM REQUIREMENTS.

06/12/2023

SHEET TITLE: LEVEL 1 MEDGAS PLAN

SHEET NO.

LEVEL 1 MEDGAS PLAN

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

**GENERAL NOTES** 

1 NEGOTIALIVIEN O.

6. PROVIDE 18x18 DOOR LOUVER 1' ABOVE GRADE AND 18x18 WALL

8. ROUTE MEDGAS LATERALLY THROUGH WALL BELOW WINDOW TO OUTLETS IN ASF06.

7. TERMINATE 3/4" MANIFOLD VENTS THROUGH WALL OF MEDGAS CLOSET AS HIGH AS POSSIBLE.

LOUVER WITHIN 1' OF CEILING OF MEDGAS CLOSET.

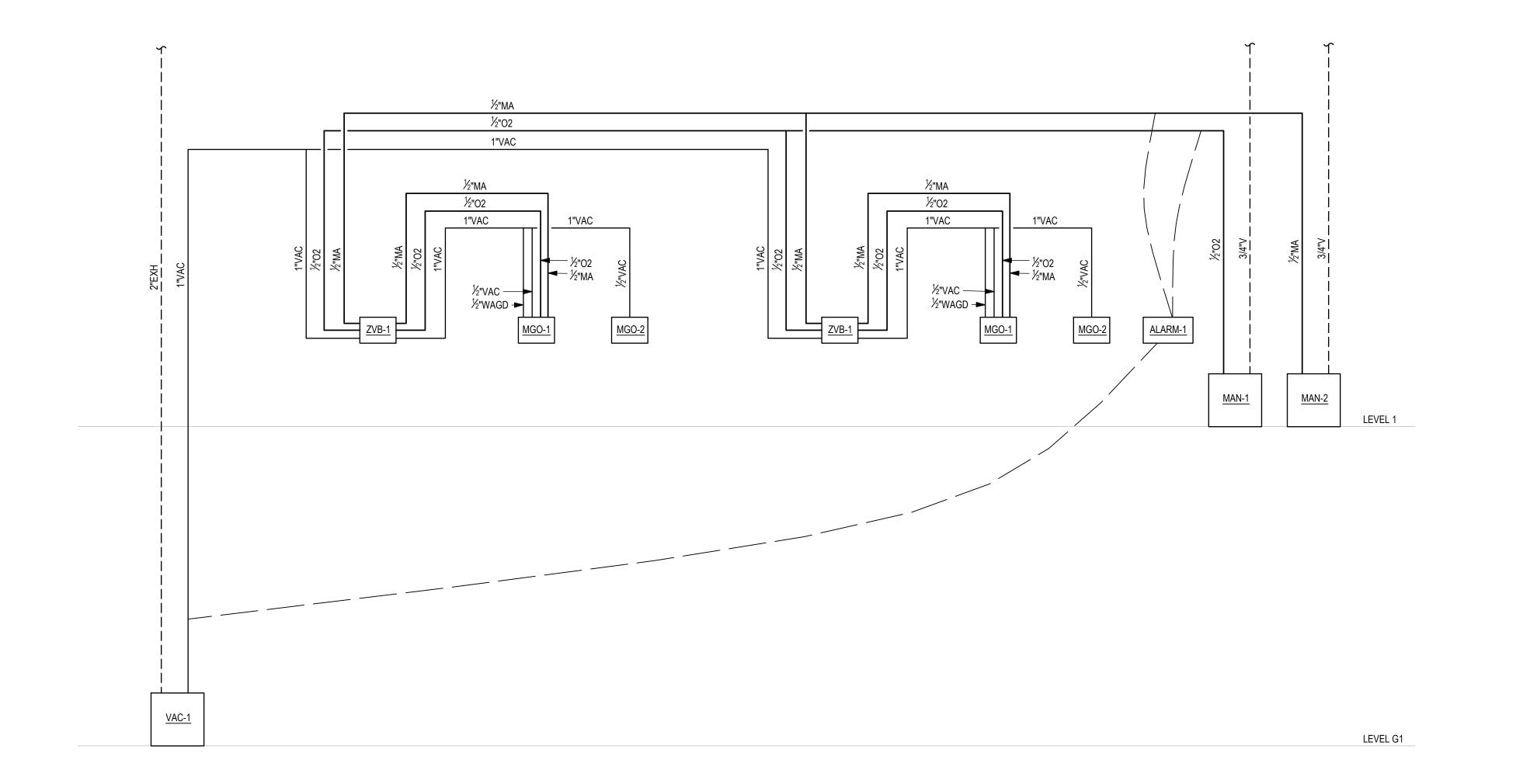
1. VACUUM UP FROM LEVEL G1.

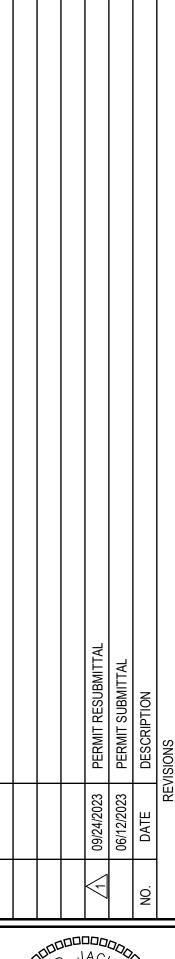
3. SEE P201 FOR CONTINUATION.

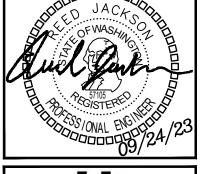
4. 2x2 O2 MANIFOLD. 5. 2x2 MA MANIFOLD.

2. VACUUM EXHAUST UP FROM LEVEL G1.

KEY NOTES









DATE: 06/12/2023 GENERAL NOTES

1. SEE MEDICAL GAS EQUIPMENT SCHEDULE ON P001 FOR REQUIRED QTY. OF GAS OUTLETS AT EACH LOCATION.

SHEET TITLE: MEDGAS PIPING DIAGRAMS

MEDGAS PIPING DIAGRAM

2. SEE MEDICAL GAS NOTES ON P000 FOR ADDITIONAL SYSTEM REQUIREMENTS.

SHEET NO.

P602