

MAIN STREET

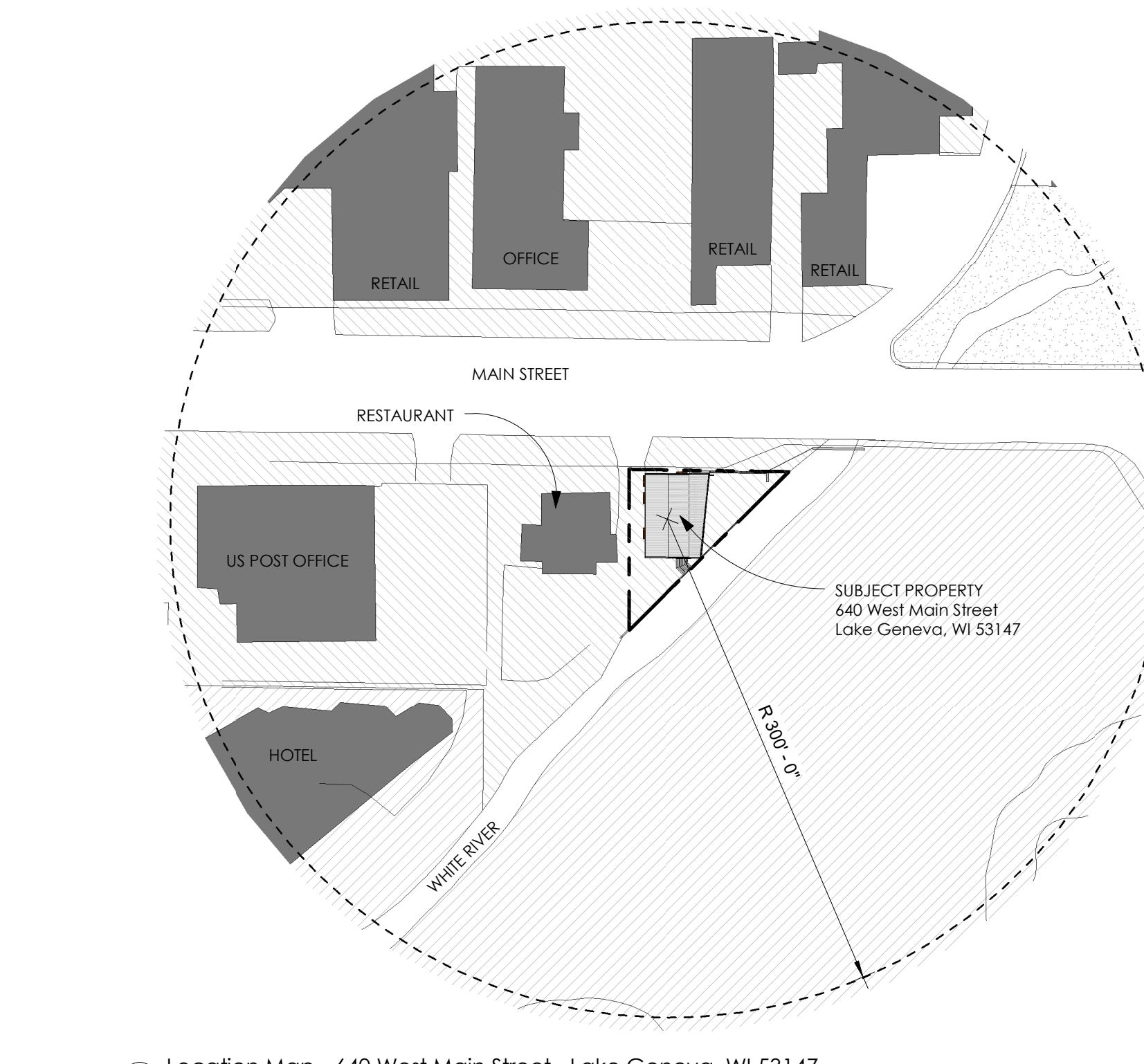
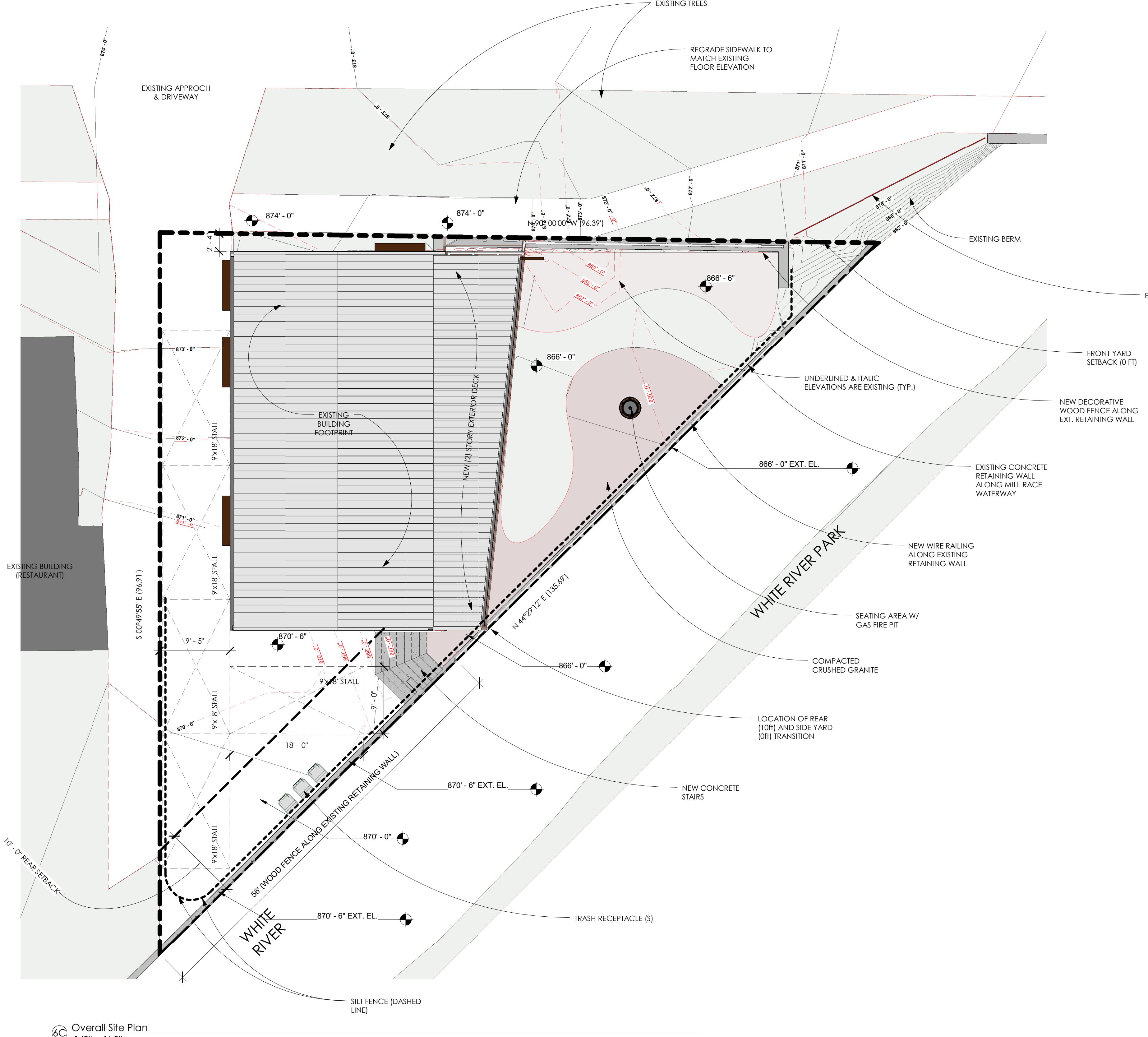
5

4

3

2

1



FYF LLC.
Owner: FYF LLC,
43 S Water St E | Fort Atkinson, WI
ilovefunkys@hotmail.com

Zenteno Solutions

Plumbing Designer: Zenteno Solutions
1530 P B Lane # Z4646
WICHITA FALLS, TX, 76302
roberto@zenteno.net | 832.449.9278



#1075-B, 10th main, HAL 2nd stage,
Bengaluru -08
HVAC Designer: Desapex
shreenidhi@desapex.com

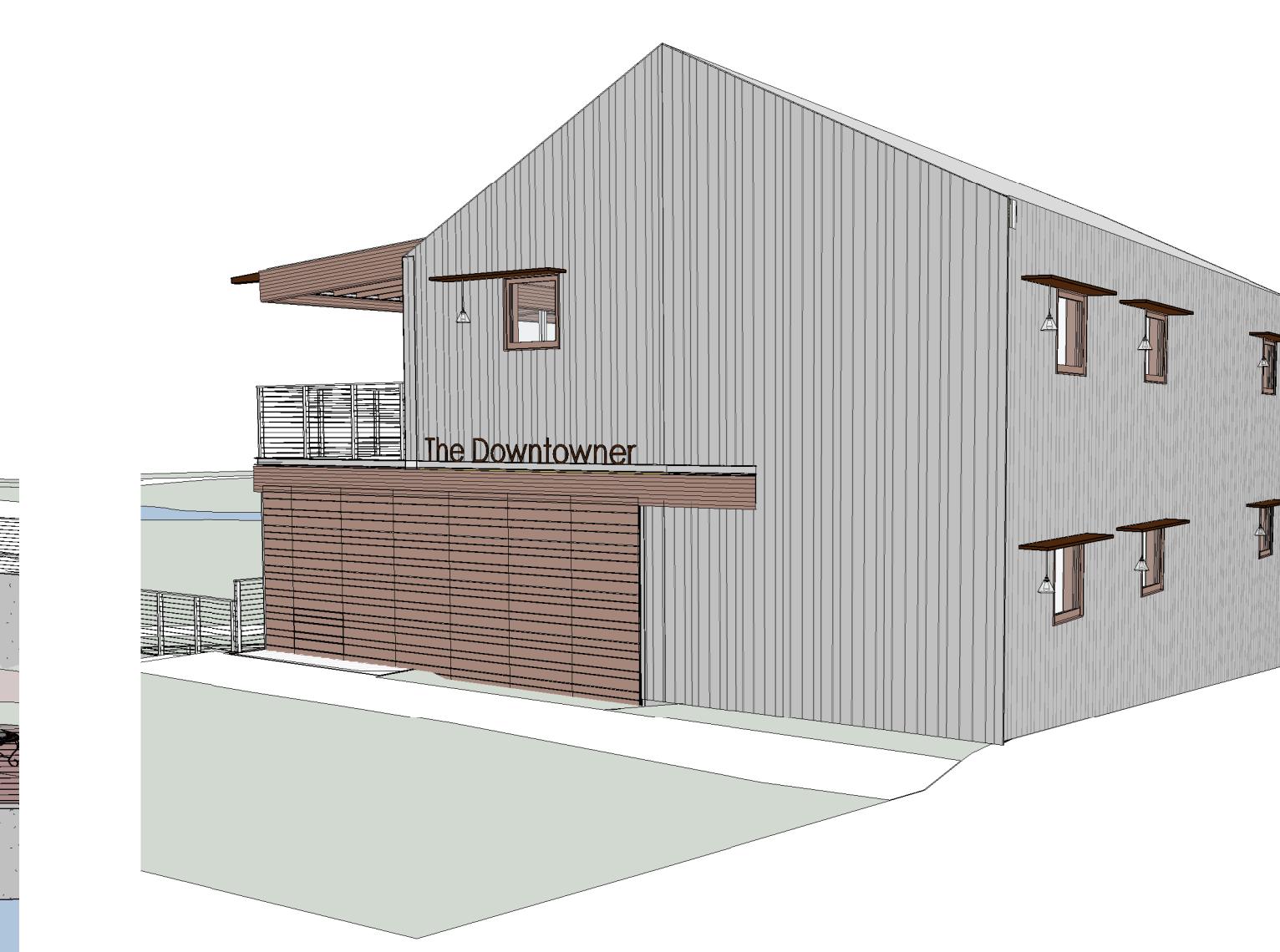
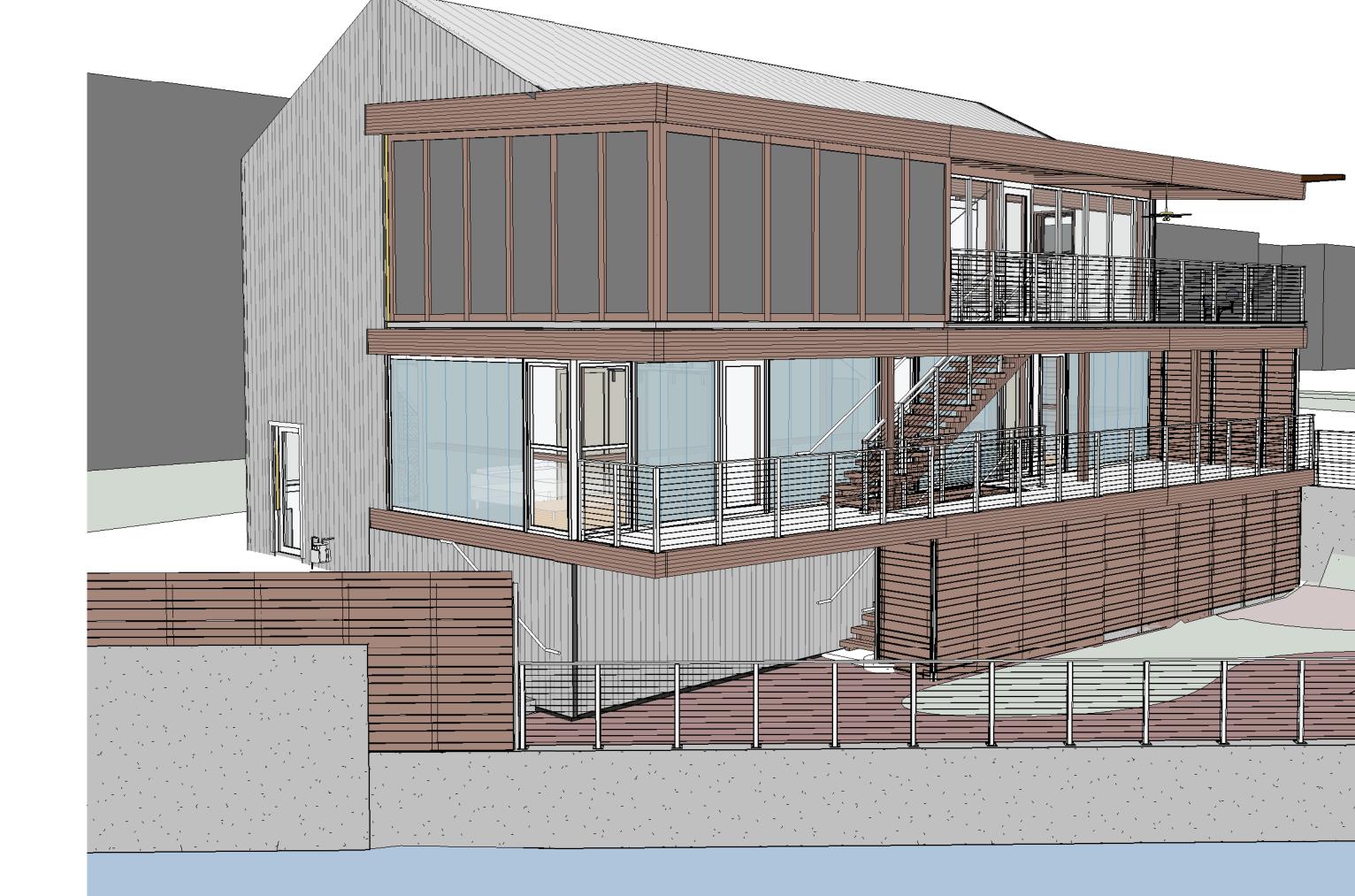
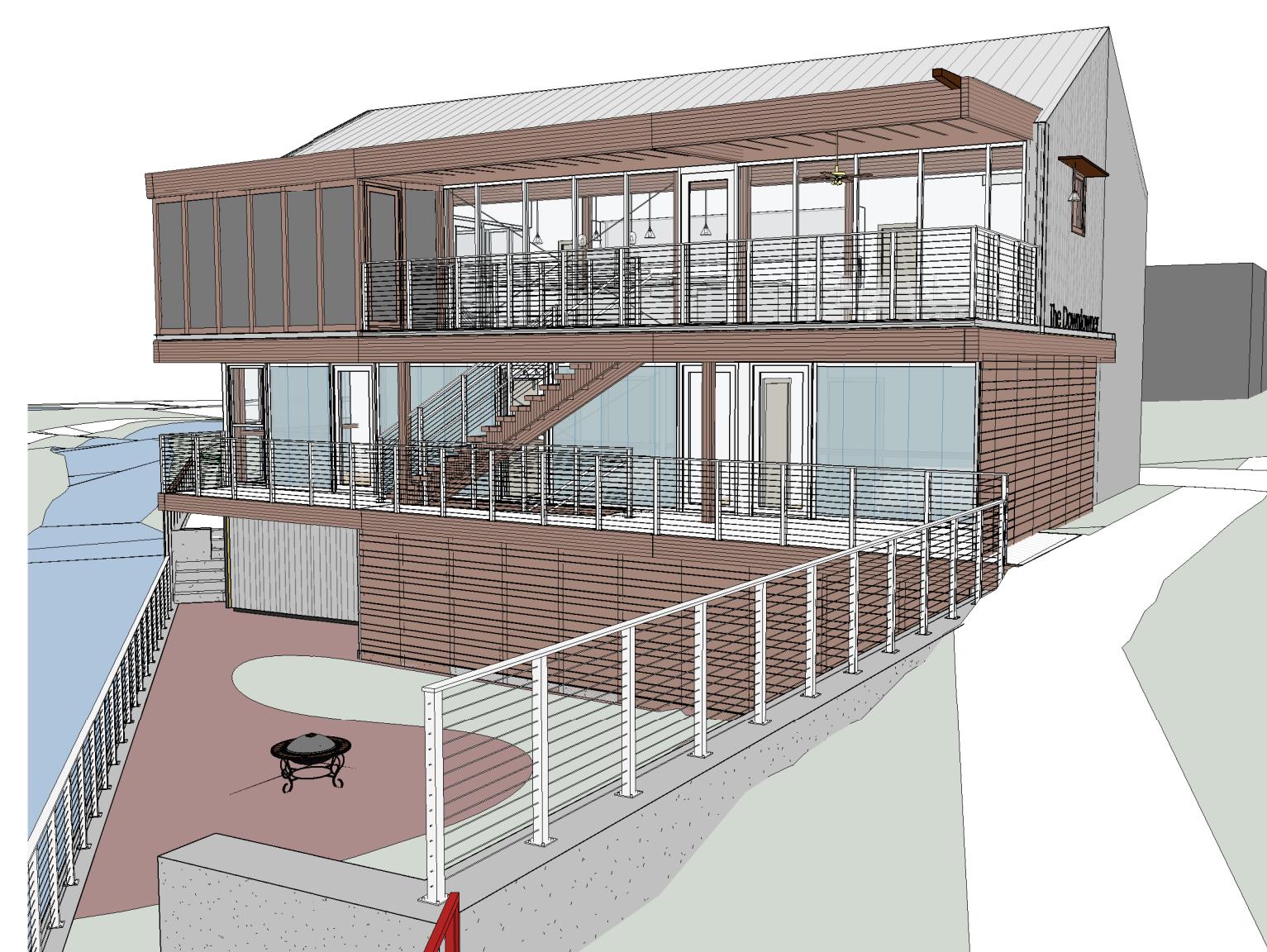
SHEET LIST			
Discipline	Sheet Number	Sheet Title	Issue for Permit
ARCH	A001	LIFE SAFETY & CODE SUMMARY	X
ARCH	A100	DEMOLITION PLANS	X
ARCH	A101	1ST & 2ND FLOOR PLANS	X
ARCH	A102	BASEMENT & ROOF FLOOR PLANS	X
ARCH	A151	1ST & 2ND REFLECTED CEILING PLANS	X
ARCH	A152	BASEMENT REFLECTED CEILING PLANS	X
ARCH	A200	EXTERIOR ELEVATIONS	X
ARCH	A300	BUILDING SECTIONS	X
ARCH	A350	WALL SECTIONS	X
ARCH	A360	STAIR SECTIONS	X
ARCH	A361	STAIR SECTION	X
ARCH	A400	EXTERIOR DETAILS	X
ARCH	A401	EXTERIOR DETAILS	X
ARCH	A402	EXTERIOR DETAILS	X
ARCH	A500	ADA RESTROOM & SCHEDULES	X
ARCH	S100	STRUCTURAL - NOTES	X
ARCH	S101	STRUCTURAL - FLOOR PLANS	X
ARCH	S300	STRUCTURAL - SECTIONS	X
ARCH	S400	BRACING ELEVATION	X
ARCH	S401	BRACING DETAILS	X
HVAC	M.000	HVAC Notes & Legends	X
HVAC	M.000	HVAC Basement & Roof plan	X
HVAC	M.000	HVAC 1st & 2nd Floor plan	X
PLMB	P00	PLUMBING SYMBOLS & ABBREVIATIONS	X
PLMB	P101	BASEMENT & FIRST FLOOR SANITARY PLAN	X
PLMB	P102	SECOND FLOOR AND ROOF PLUMBING PLANS	X
PLMB	P103	BASEMENT & FIRST FLOOR WATER DISTRIBUTION	X
PLMB	P104	DETAILS	X
PLMB	P105	RISER DIAGRAMS	X

WISCONSIN
FIRM P.
SCHULTZ
A-111075
STUTTON
WI
ARCHITECT
[Signature]



openingdesign
Architect: OpeningDesign
312 W. Lakeside St. | Madison, WI 53715
hello@openingdesign.com | 773-425-6456

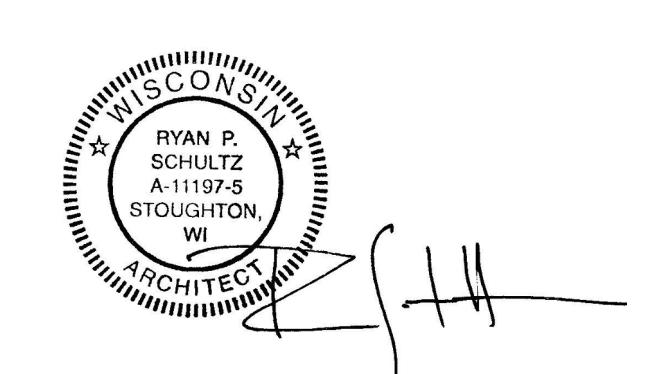
Date	Description
04.10.2017	Early Start & Footing/Foundation
05.03.2017	Issue for Permit



SITE PLAN & CODE SUMMARY
The Downtowner | 640 West Main Street, Lake Geneva, WI 53147

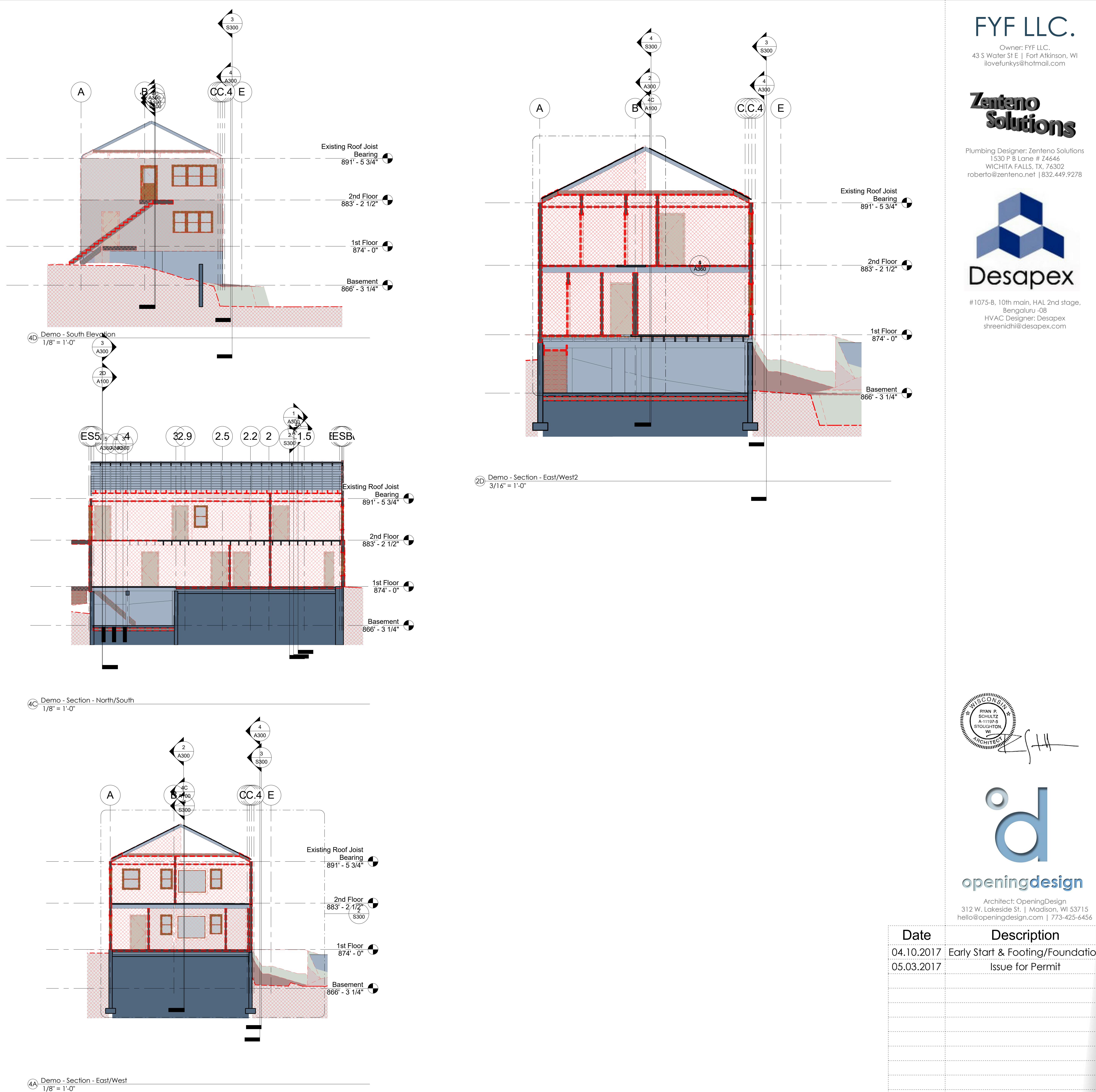
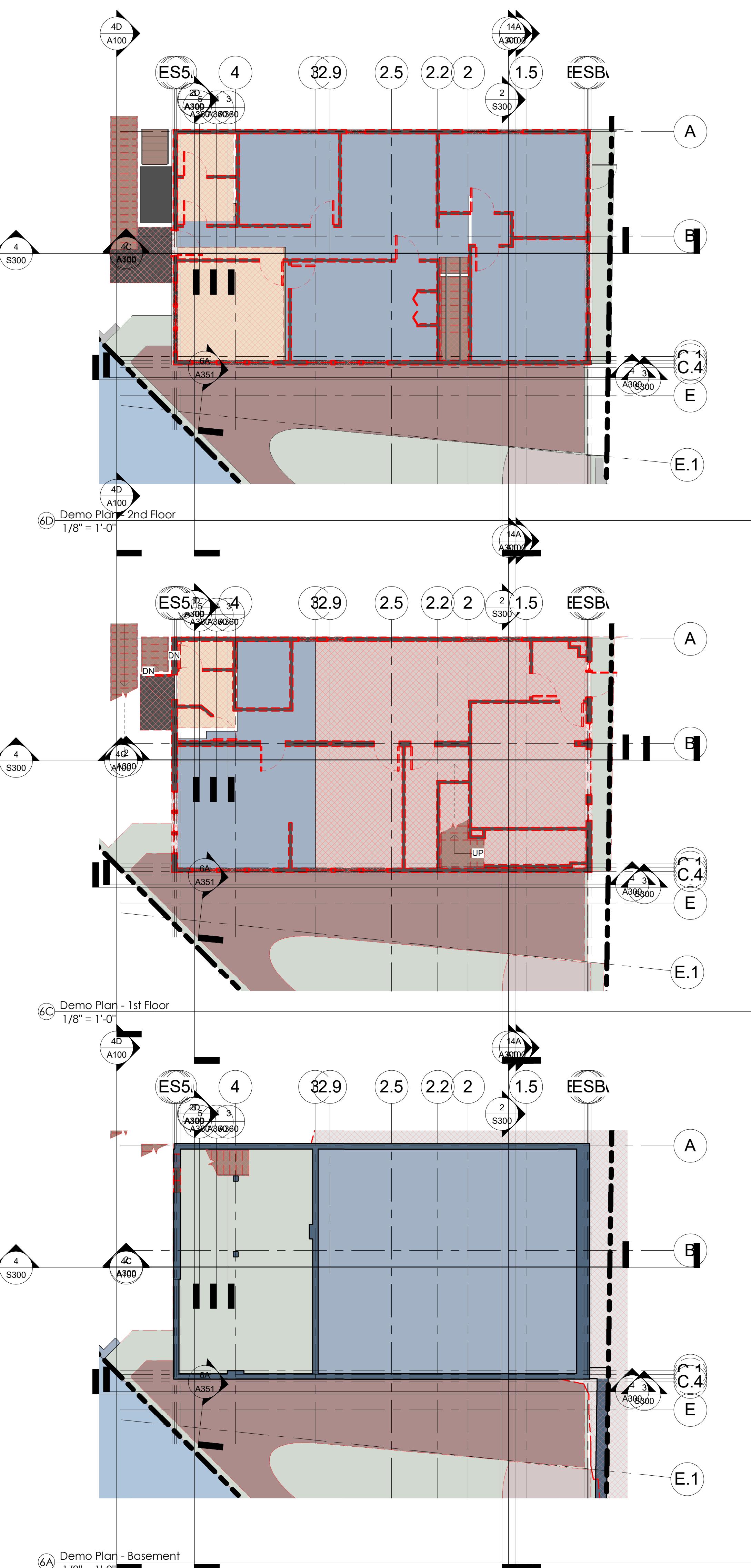
A000

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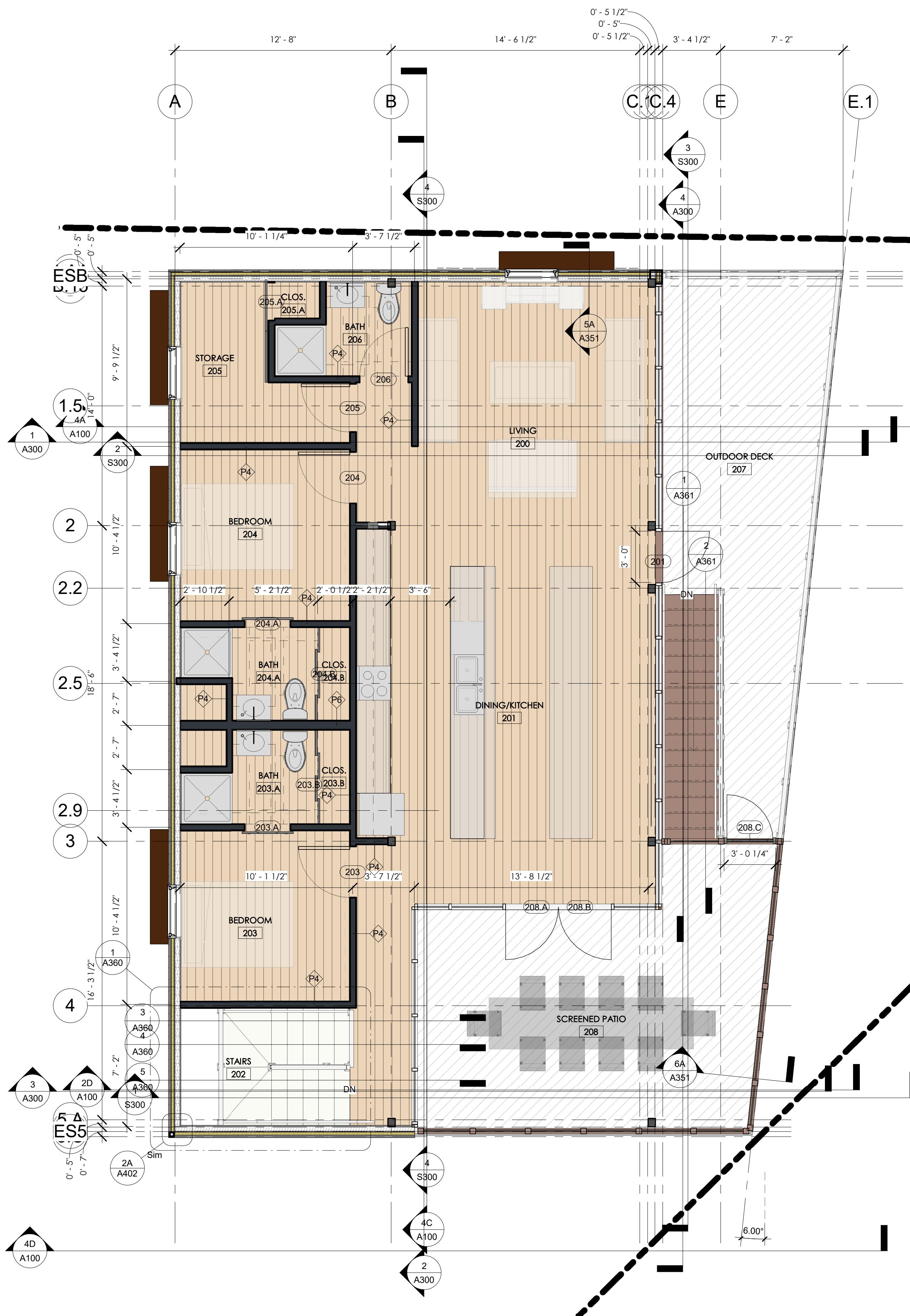
Architect: OpeningDesign
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Date	Description
04.10.2017	Early Start & Footing/Foundation
05.03.2017	Issue for Permit





(6B) Floor Plan - 1st Floor



4B Floor Plan - 2nd Fl
1/4" = 1'-0"

FYF LLC.
Owner: FYF LLC.
3 S Water St E | Fort Atkinson, WI
ilovefunkys@hotmail.com

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ilovefunkys@hotmail.com

Zenteno Solutions

mbing Designer: Zenteno Solutions
1530 P B Lane # Z4646
WICHITA FALLS, TX, 76302
berto@zenteno.net | 832.449.9278



075-B, 10th main, HAL 2nd stage,
Bengaluru -08
HVAC Designer: Desapex
shreenidhi@desapex.com

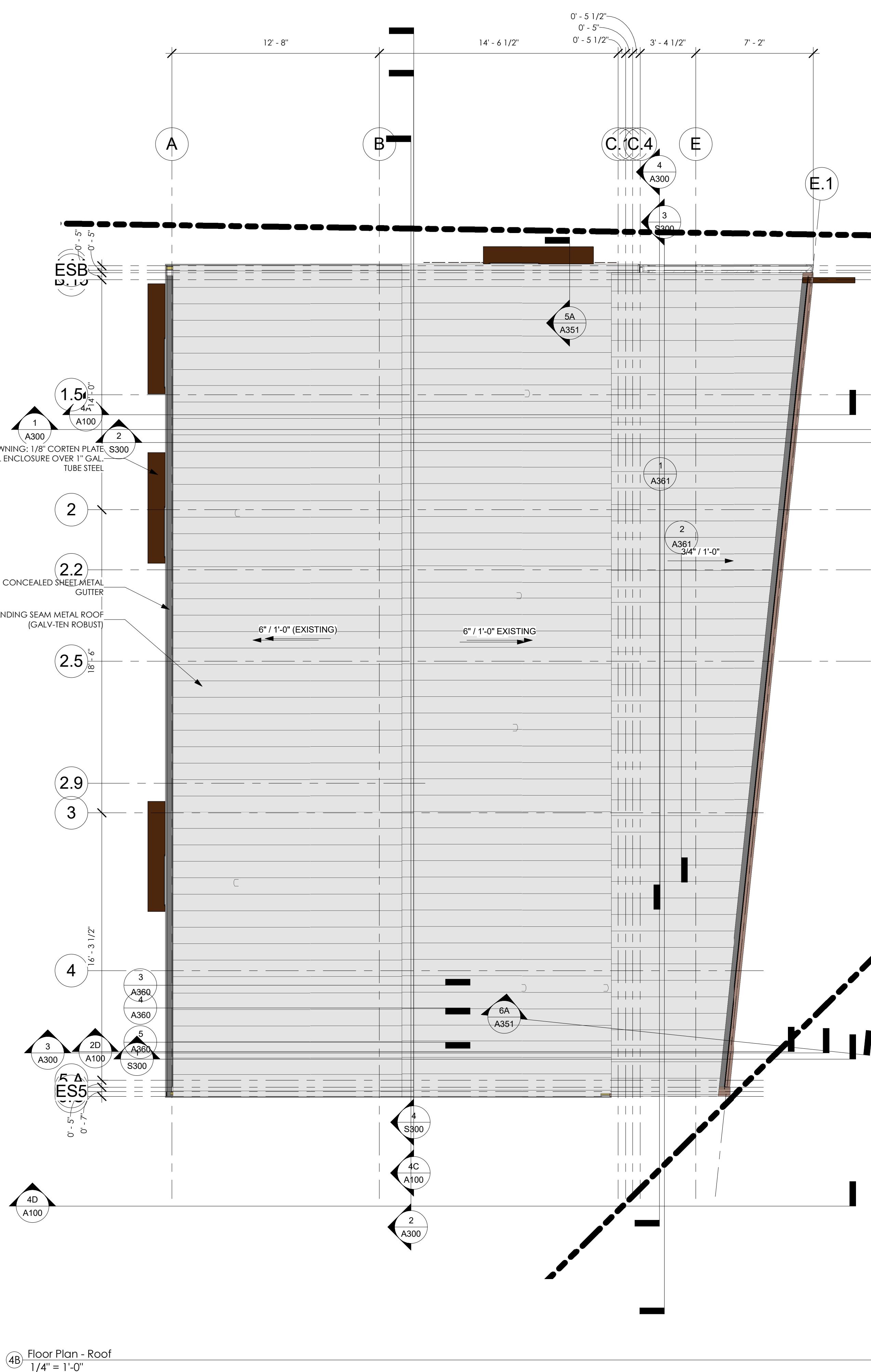
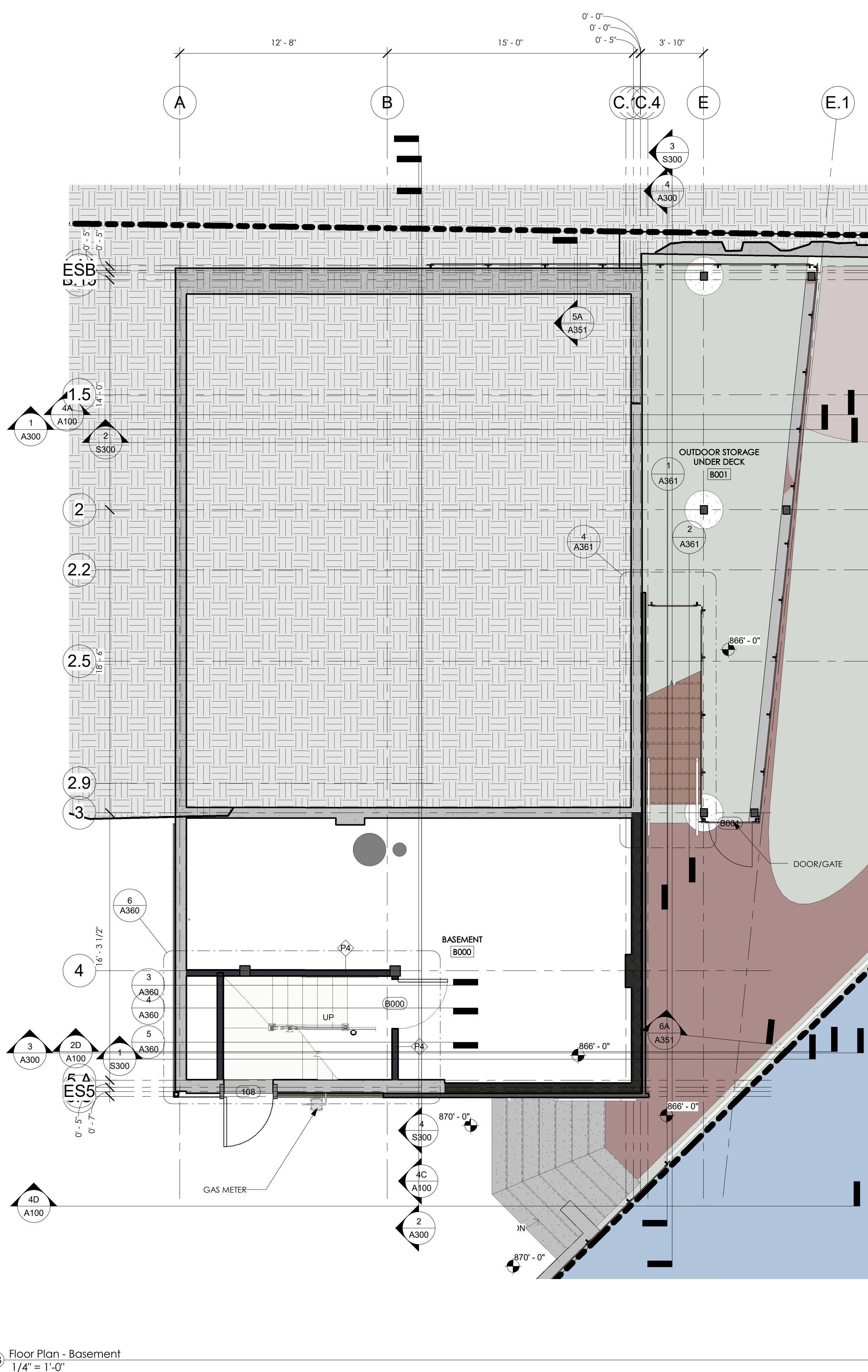
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Architect: OpeningDesign
W. Lakeside St. | Madison, WI 53715
openingdesign.com | 773-425-6456

Description

Start & Footing/Foundation Issue for Permit

1ST & 2ND FLOOR PLANS
The Downtowner | 640 West Main Street, Lake Geneva, WI 53147



BASEMENT & ROOF FLOOR PLANS
The Downtowner | 640 West Main Street, Lake Geneva, WI 53147

FYF LLC.
Owner: FYF LLC.
43 S Water St E | Fort Atkinson, WI
ilovefunkys@hotmail.com

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43 S Water St E | Fort Atkinson, WI
ilovefunkys@hotmail.com

Zenteno Solutions

Plumbing Designer: Zenteno Solutions
1530 P B Lane # Z4646
WICHITA FALLS, TX, 76302
roberto@zenteno.net | 832.449.9278



#1075-B, 10th main, HAL 2nd stage,
Bengaluru -08
HVAC Designer: Desapex
shreenidhi@desapex.com

A circular seal for Wisconsin Architects. The outer ring contains the word "WISCONSIN" at the top and "ARCHITECT" at the bottom, separated by stars. The inner circle contains the name "RYAN P. SCHULTZ", the identification number "A-11197-5", and the location "STOUGHTON, WI".



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Description

Early Start & Footing/Foundation Issue for Permit

A102

Date	Description
04.10.2017	Early Start & Footing/Foundation
05.03.2017	Issue for Permit



FYF LLC.

Owner: FYF LLC.
3 S Water St E | Fort Atkinson, WI
ilovefunkys@hotmail.com

This architectural cross-section diagram illustrates the construction details of a building's exterior and interior levels. The diagram is labeled with points A through E and various levels 1.5, 2, 2.2, 2.5, 2.9, 3, 4, and 5A.

Key Labels and Annotations:

- Point A:** Located at the top left, showing a vertical column with labels 1.5, 2, 2.2, 2.5, 2.9, 3, 4, and 5A.
- Point B:** Located at the top center, showing a vertical column with labels 1.5, 2, 2.2, 2.5, 2.9, 3, 4, and 5A.
- Point C.1C.4:** Located at the top right, showing a vertical column with labels 1.5, 2, 2.2, 2.5, 2.9, 3, 4, and 5A.
- Point E:** Located at the top far right, showing a vertical column with labels 1.5, 2, 2.2, 2.5, 2.9, 3, 4, and 5A.
- Point E.1:** Located at the top far right, showing a vertical column with labels 1.5, 2, 2.2, 2.5, 2.9, 3, 4, and 5A.
- ESB D.10:** Located at the top left, indicating a specific section or detail.
- OUTDOOR STORAGE UNDER DECK:** Located on the right side, indicating storage areas under a deck.
- TREATED WOOD FLOOR JOISTS DECK (EXTERIOR STAIN: PENOFIN VERDE EXT. STAIN - COLOR: CEDAR):** An annotation pointing to the treated wood floor joists.
- EXTERIOR GLULAMS BEAMS (PRESSURE TREATED W/ PENTA I SOLVENT) (STAIN: PENOFIN VERDE EXT. STAIN - COLOR: CEDAR):** An annotation pointing to the exterior glulam beams.
- EXISTING PLANK FLOOR LAYER (3 LAYERS 3/4" THICK):** An annotation pointing to the existing plank floor layer.
- BASEMENT B000:** An annotation indicating the basement level.
- Annotations for Points A, B, C.1C.4, E, and E.1:** Each point has a vertical column with labels 1.5, 2, 2.2, 2.5, 2.9, 3, 4, and 5A, followed by specific material and dimension details (e.g., S300, A100, A300, A360, A351).

6B Reflected Ceiling Plan - Basement
1/4" = 1'-0"

BASEMENT REFLECTED CEILING PLANS
The Downtowner | 640 West Main Street, Lake Geneva, WI 53147

A152

Zenteno Solutions



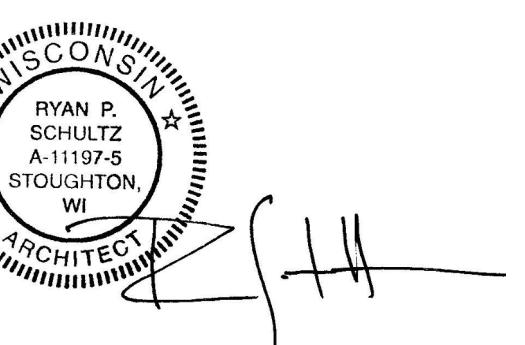
Desapex

A circular seal for Wisconsin Architects. The outer ring contains the word "WISCONSIN" at the top and "ARCHITECT" at the bottom, separated by a decorative border of small stars and dots. Inside the circle, the name "RYAN P. SCHULTZ" is written above the number "A-11197-5". Below that is the address "STOUGHTON, WI". A five-pointed star is positioned between "SCHULTZ" and "A-11197-5". To the right of the seal is a handwritten signature "R. H. H." over a stylized "S".



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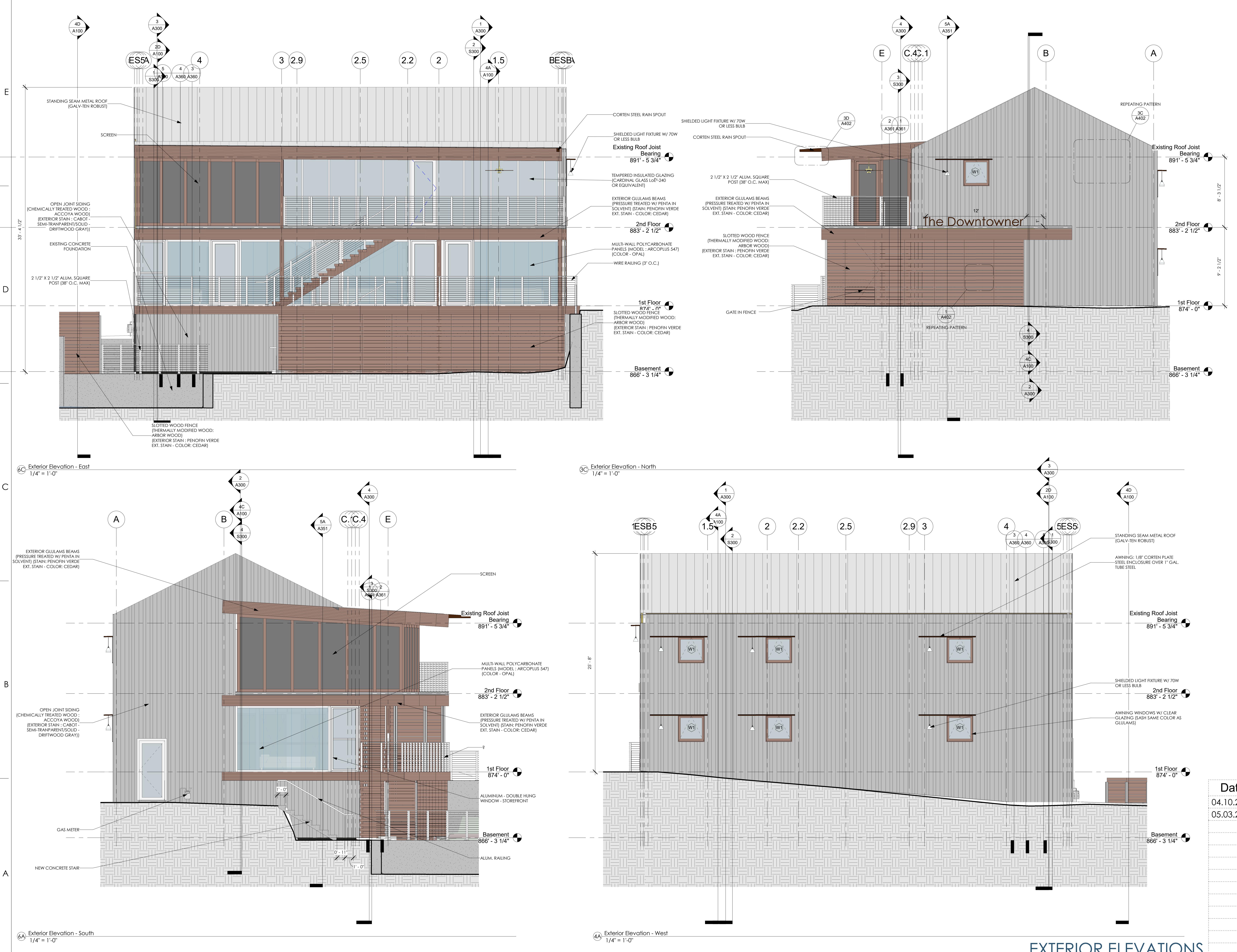
Architect: OpeningDesign
2 W. Lakeside St. | Madison, WI 53715
s@openingdesign.com | 773.425.4454



Date	Description
04.10.2017	Early Start & Footing/Foundation
05.03.2017	Issue for Permit

EXTERIOR ELEVATIONS The Downtowner | 640 West Main Street, Lake Geneva, WI 53147

A200



FYF LLC.

Owner: FYF LLC,
43 S Water St E | Fort Atkinson, WI
ilovefunkys@hotmail.com

Zenteno Solutions

Plumbing Designer: Zenteno Solutions
1530 P B Lane # Z4646
WICHITA FALLS, TX, 76302
roberto@zentenos.net | 832.449.9278



Desapex
#1075-B, 10th main, HAL 2nd stage,
Bengaluru -08
HVAC Designer: Desapex
shreenidhi@desapex.com

WISCONSIN
FIRM P.
SCHULTZ
A-1111975
STEVENS
WI
ARCHITECT
[Signature]



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Date	Description
04.10.2017	Early Start & Footing/Foundation
05.03.2017	Issue for Permit



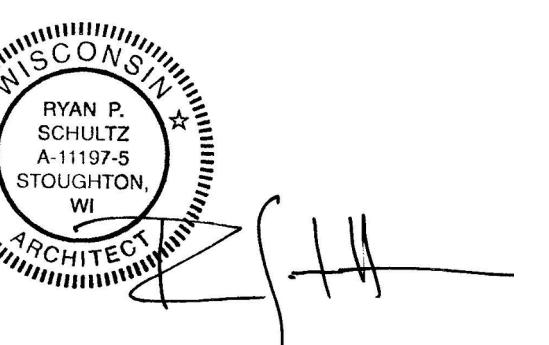
BUILDING SECTIONS
The Downtowner | 640 West Main Street, Lake Geneva, WI 53147

A300

5/3/2017 11:30:39 PM



#1075-B, 10th main, HAL 2nd stage,
Bengaluru -08
HVAC Designer: Desapex
shreenidhi@desapex.com



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WALL SECTIONS

NOVEMBER 2017

WALL SECTIONS
The Downtowner | 640 West Main Street, Lake Geneva, WI 53147

A350

This architectural cross-section diagram illustrates the vertical structure of a building across six levels: Basement, 1st Floor, 2nd Floor, Existing Roof Joist Bearing, and 2nd Floor. The diagram shows the following key features and dimensions:

- Floor Levels:** Basement (866' - 3 1/4"), 1st Floor (874' - 0"), 2nd Floor (883' - 2 1/2"), Existing Roof Joist Bearing (891' - 5 3/4"), and 2nd Floor (883' - 2 1/2").
- Walls:** The structure includes exterior walls (e.g., A, B, C) and interior walls. Wall A is labeled "EXISTING 1x12'S (ACTUAL SIZE 1" X 12")". Wall B is labeled "B, ESBA". Wall C is labeled "C.1, C.2, C.4".
- Structural Components:** The diagram shows various columns and beams, including:
 - Column 4C A100 at the top.
 - Column 2 A300.
 - Column 4 S300.
 - Column 4C A400.
 - Column 2D A400.
 - Column 2B A400.
 - Column 2A A400.
 - Column 6D A400.
 - Column 6C A401.
 - Column 6B A401.
 - Column 3B A401.
 - Column 3A A401.
 - Column 6A A401.
 - Column 2E A401.
 - Column 5ES5.A.
- Roofing:** The roof is supported by existing roof joists bearing on the structure.
- Foundations:** The building sits on an "EXISTING CONCRETE FOUNDATION".
- Annotations:** Labels like "Sim" indicate specific areas of interest or construction details.

1 Wall Section - West Wall - Looking North
1/2" = 1'-0"

2 Wall Section - Mid Span - Looking North

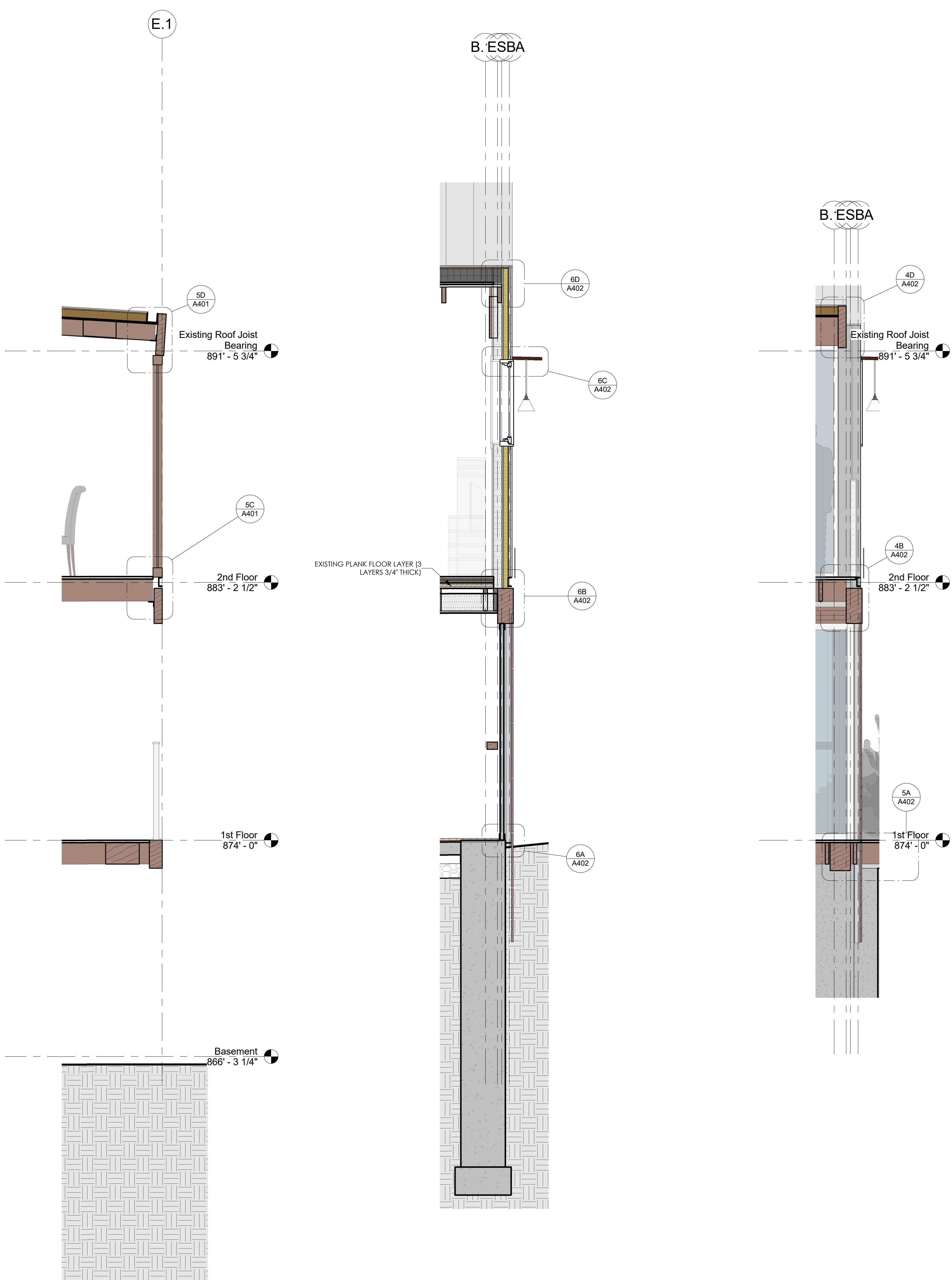
(3) Wall Section - East Wall - Looking North
1/2" = 1'-0"

(4) Wall Section - East Deck - Looking North
1/2" = 1'-0"

5 Wall Section - South Wall - Looking
 $1/2" = 1'-0"$

6 Wall Section - Mid Span - Looking
 $1/2" = 1'-0"$

(7) Wall Section - North Wall - Looking West
1/2" = 1'-0"



6A Wall Section - East Screen Wall - Looking North
1/2" = 1'-0"

5A Wall Section - North Wall at Polycarbonate - Looking West
1/2" = 1'-0"

4A Wall Section - East Deck - Looking W
1/2" = 1'-0"

WALL SECTIONS
The Downtowner | 640 West Main Street, Lake Geneva, WI 53147

A351

Date	Description
04.10.2017	Early Start & Footing/Foundation
05.03.2017	Issue for Permit

FYF LLC.

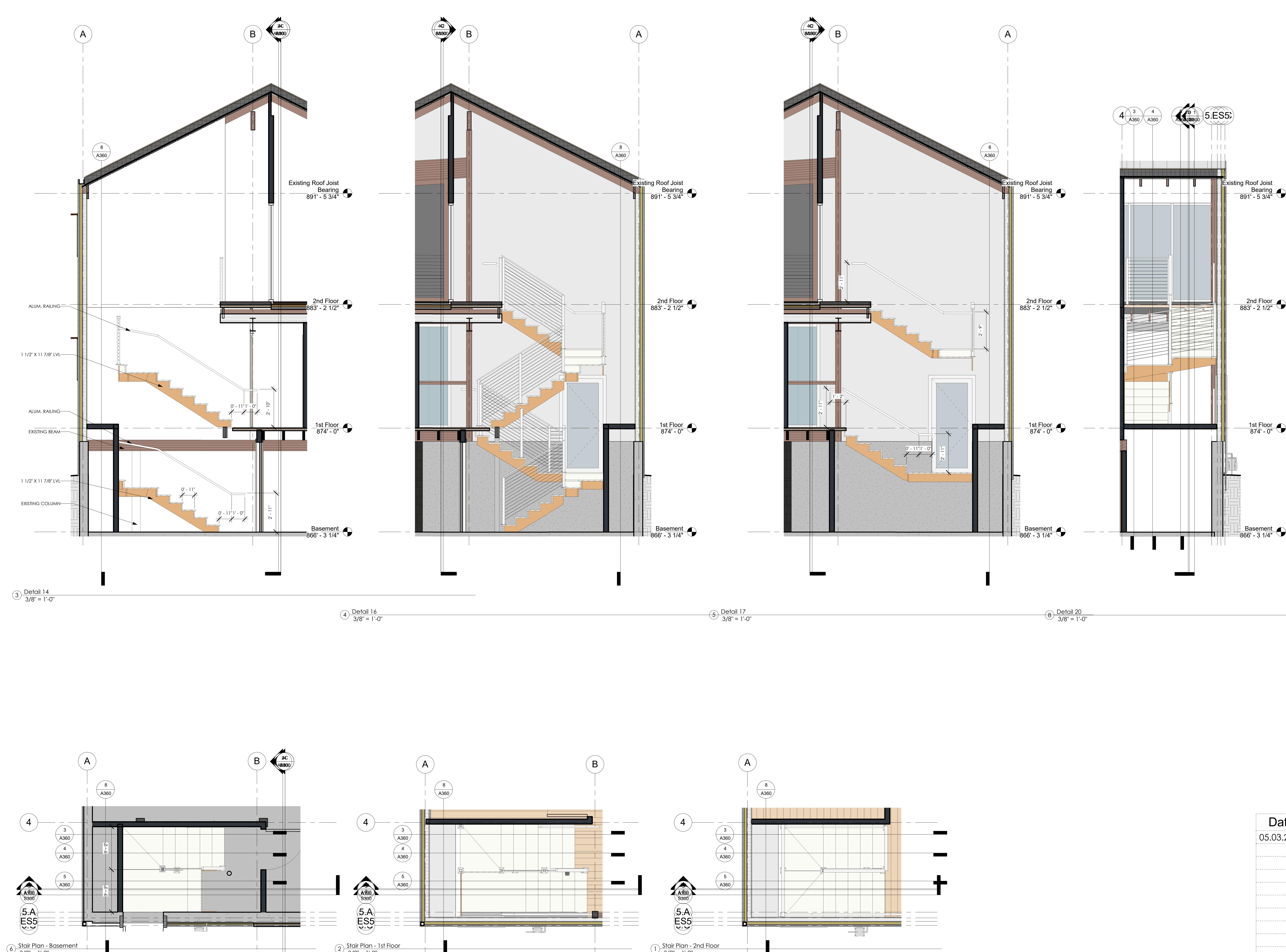
Owner: FYF LLC.
3 S Water St E | Fort Atkinson, WI
ilovefunkys@hotmail.com

Zenteno Solutions

Plumbing Designer: Zenteno Solutions
1530 P B Lane # Z4646
WICHITA FALLS, TX, 76302
roberto@zenteno.net | 832.449.9278

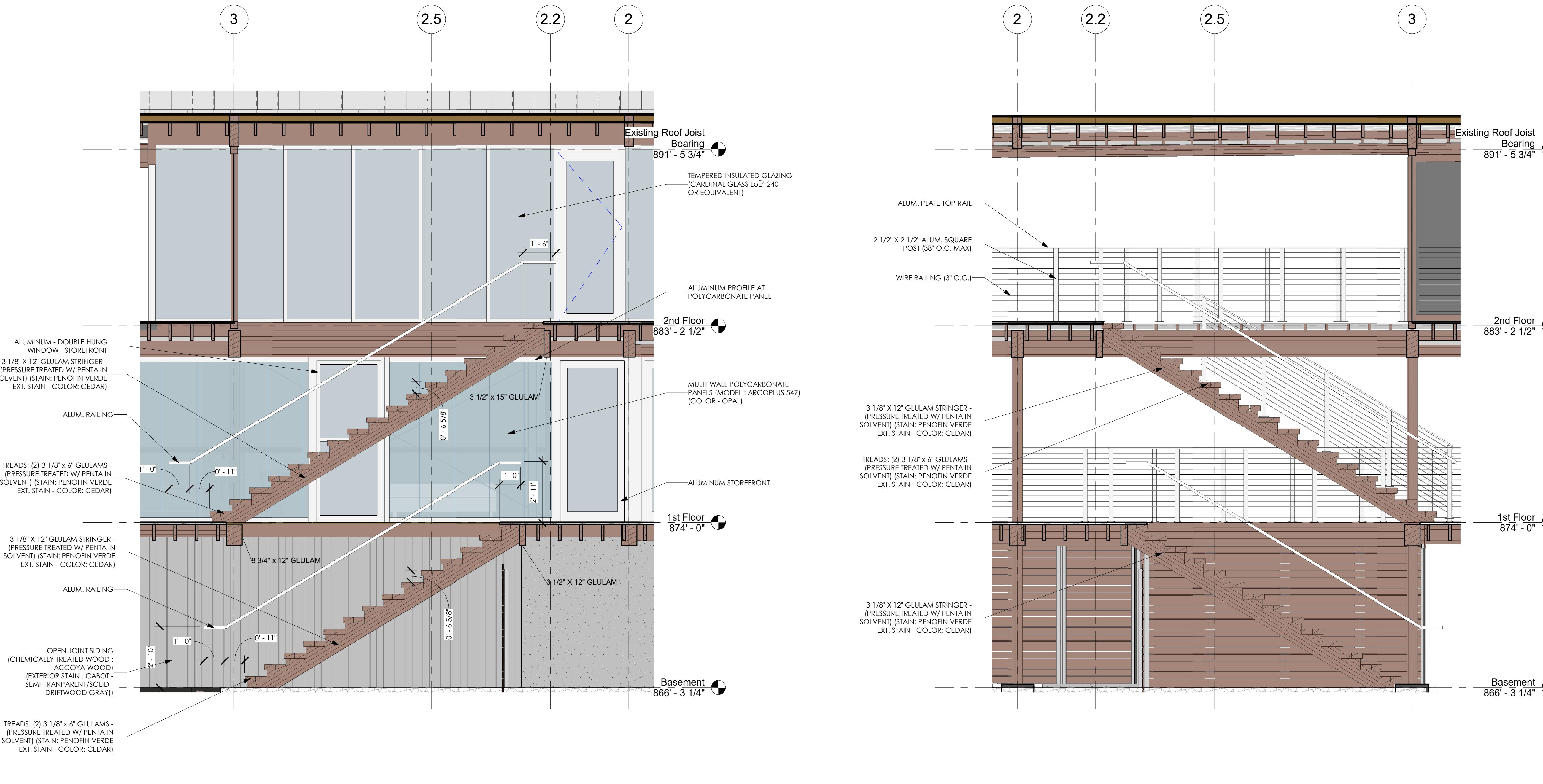


Desapex



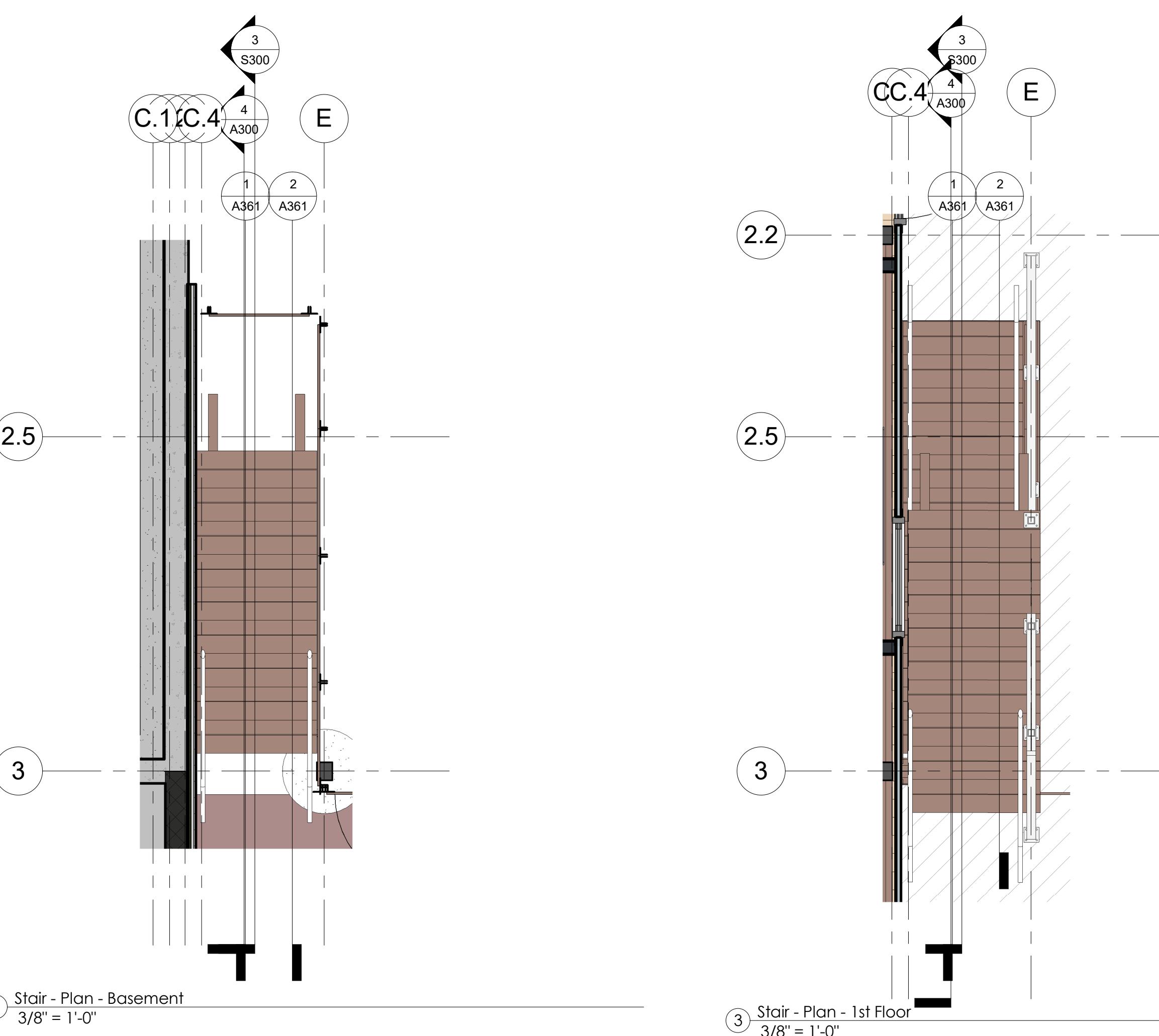
The Downtowner | 640 West Main Street, Lake Geneva, WI 53147

A360



① Detail 13

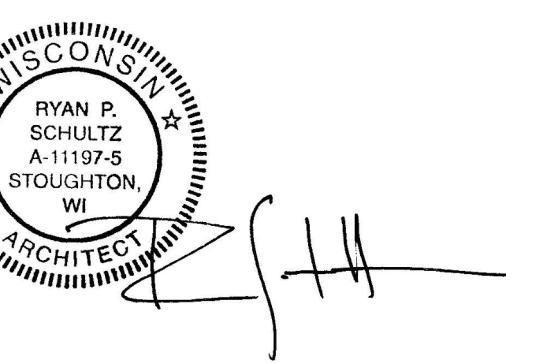
3/8" = 1'-0"



② Detail 12

3/8" = 1'-0"

STAIR SECTIONS
The Downtowner | 640 West Main Street, Lake Geneva, WI 53147

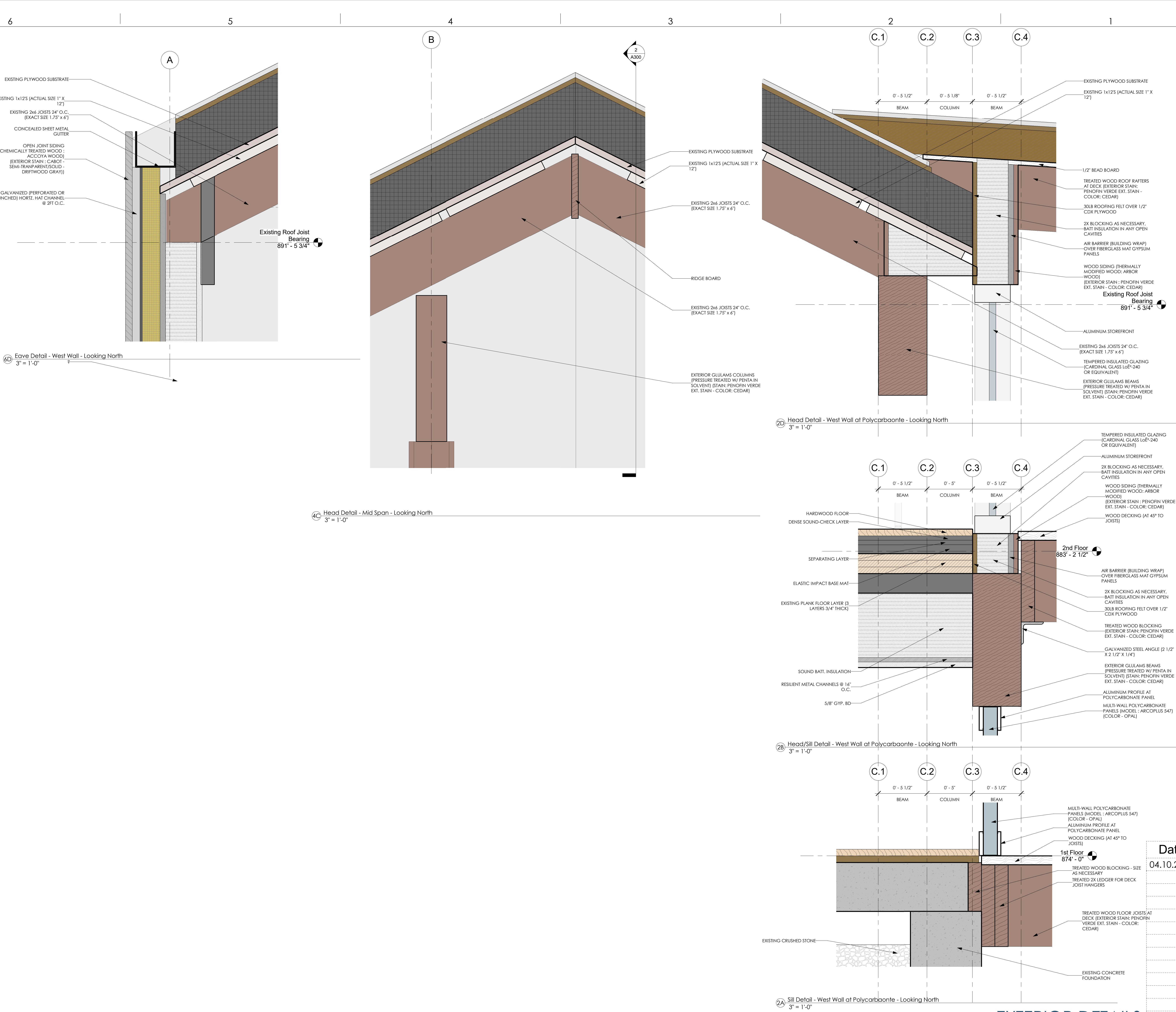


Architect: OpeningDesign
312 W. Lakeside St. | Madison, WI 53715
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Date	Description
05.03.2017	Issue for Permit

A361

5/3/2017 11:30:54 PM



EXTERIOR DETAILS
The Downtowner | 640 West Main Street, Lake Geneva, WI 53147

FYF LLC.

Owner: FYF LLC.
43 S Water St E | Fort Atkinson, WI
ilovefunkys@hotmail.com

Zenteno Solutions

Plumbing Designer: Zenteno Solutions
1530 P B Lane # Z4646
WICHITA FALLS, TX, 76302
roberto@zenteno.net | 832.449.9278



Desapex

A circular seal for Wisconsin architects. The outer ring contains the word "WISCONSIN" at the top and "ARCHITECT" at the bottom, separated by a decorative border of small diagonal lines. Inside the circle, the name "RYAN P. SCHULTZ" is at the top, followed by "A-11197-5", "STOUGHTON, WI" in the center, and a small five-pointed star to the right. A signature "SCHULZ" is written across the bottom.



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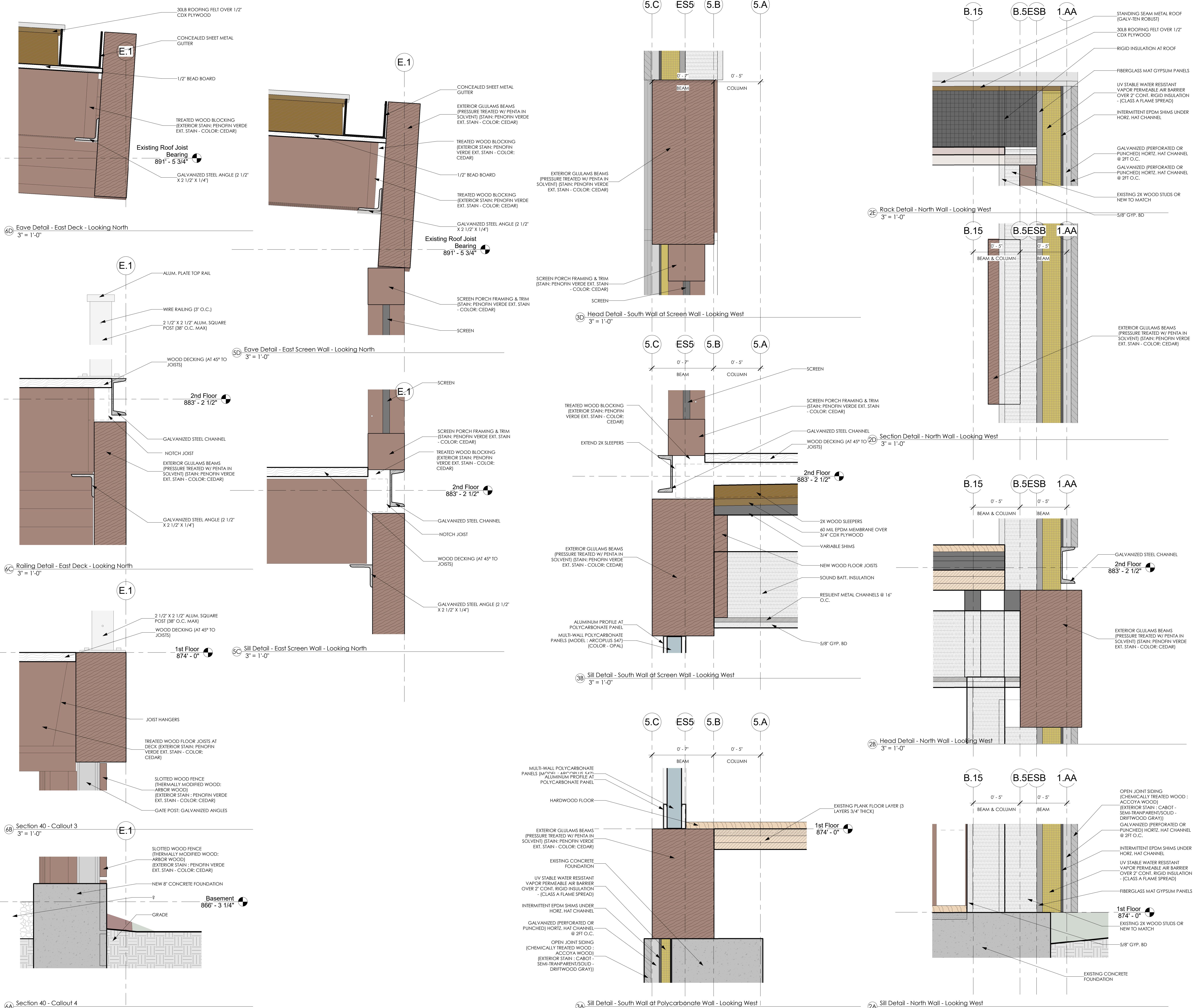
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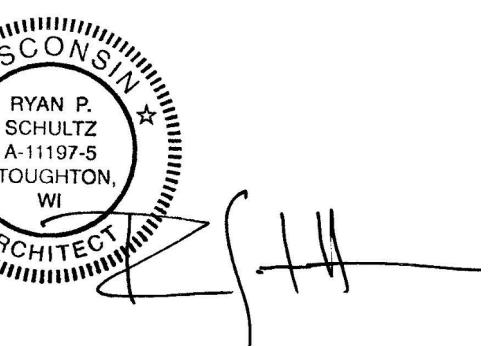
PETER P. SCHULTZ
A-111075
STUDIO 101
ARCHITECT
[Handwritten signature]



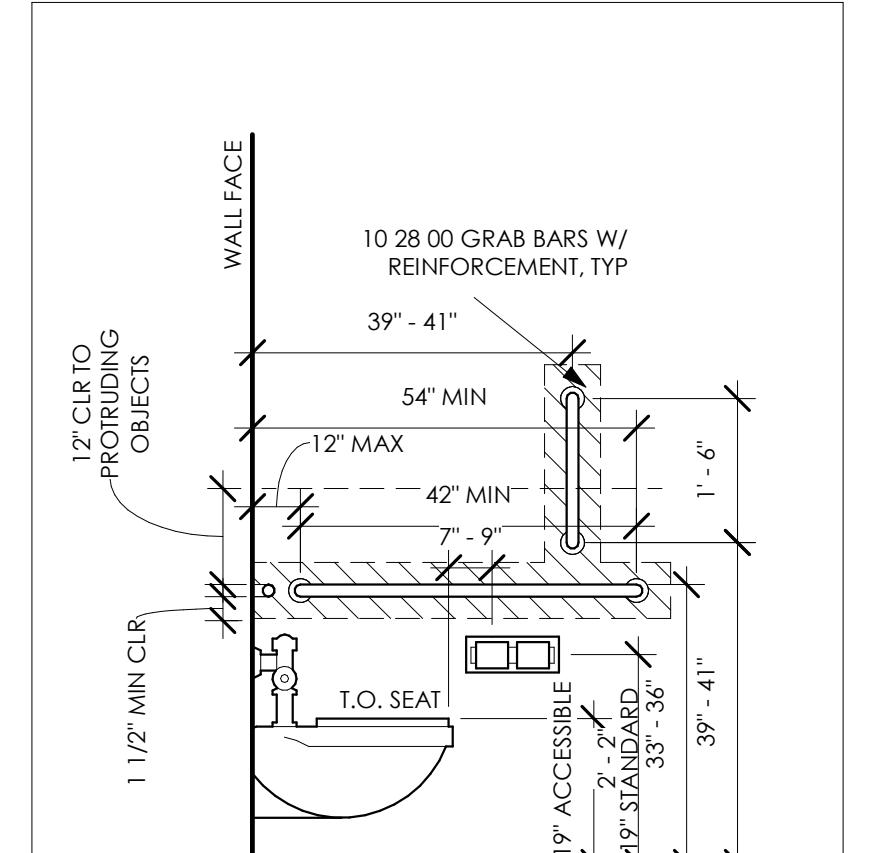
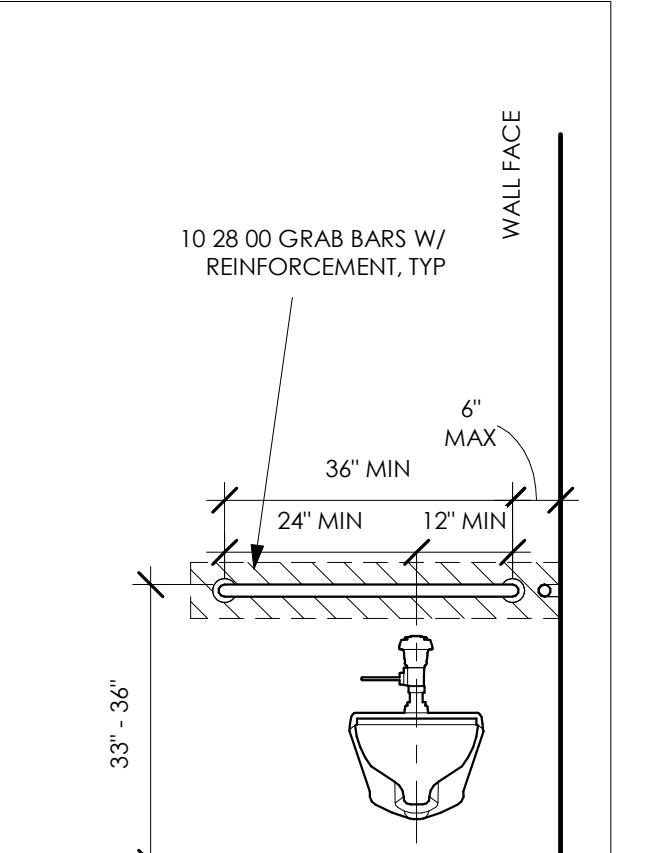
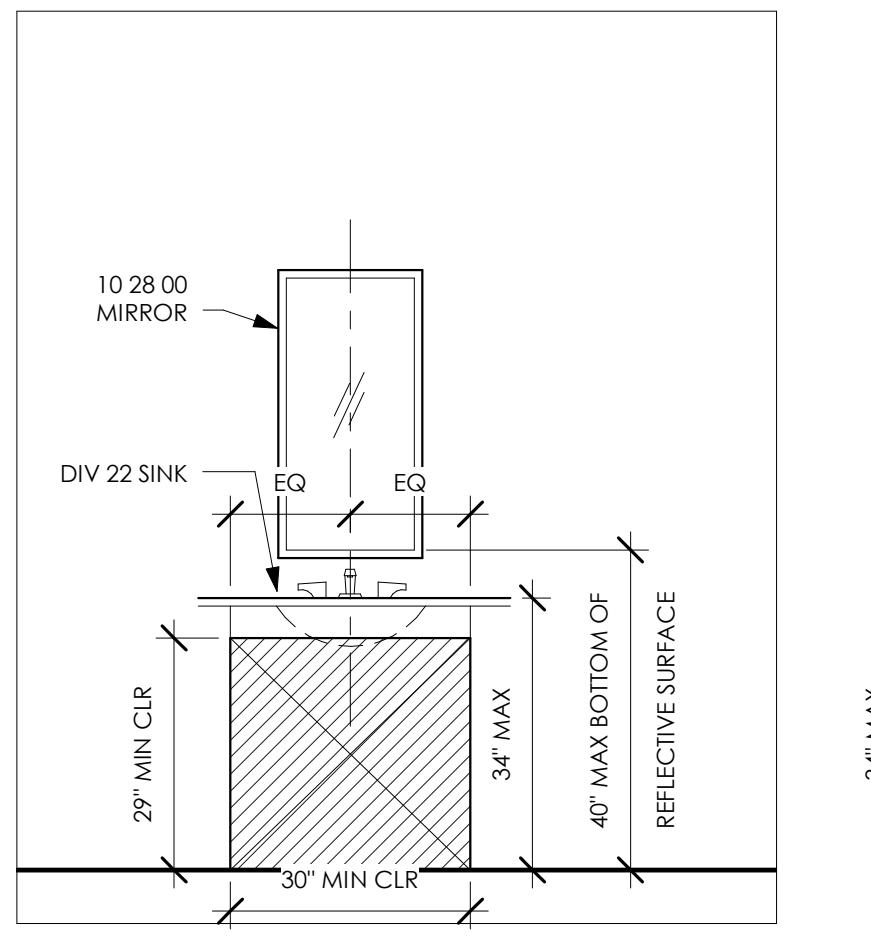
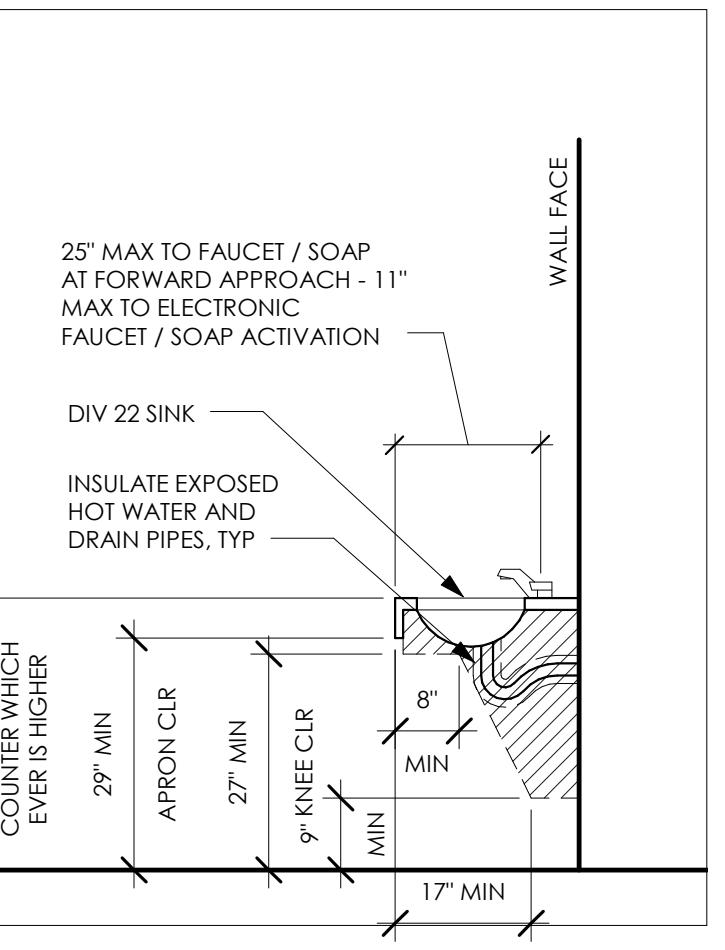
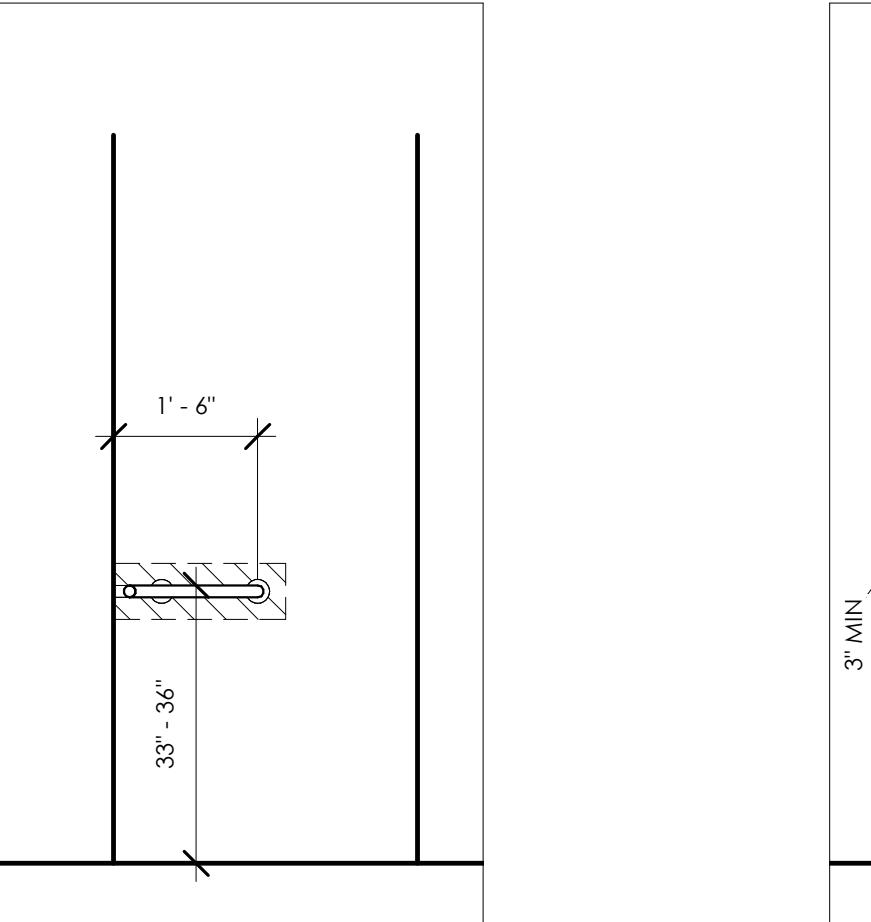
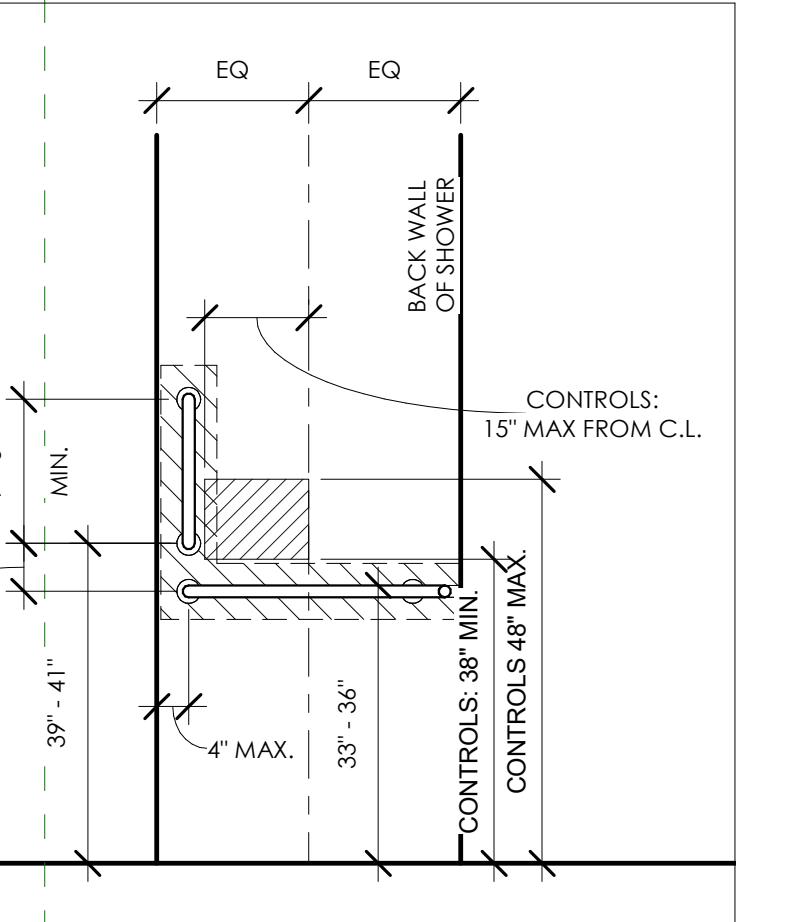
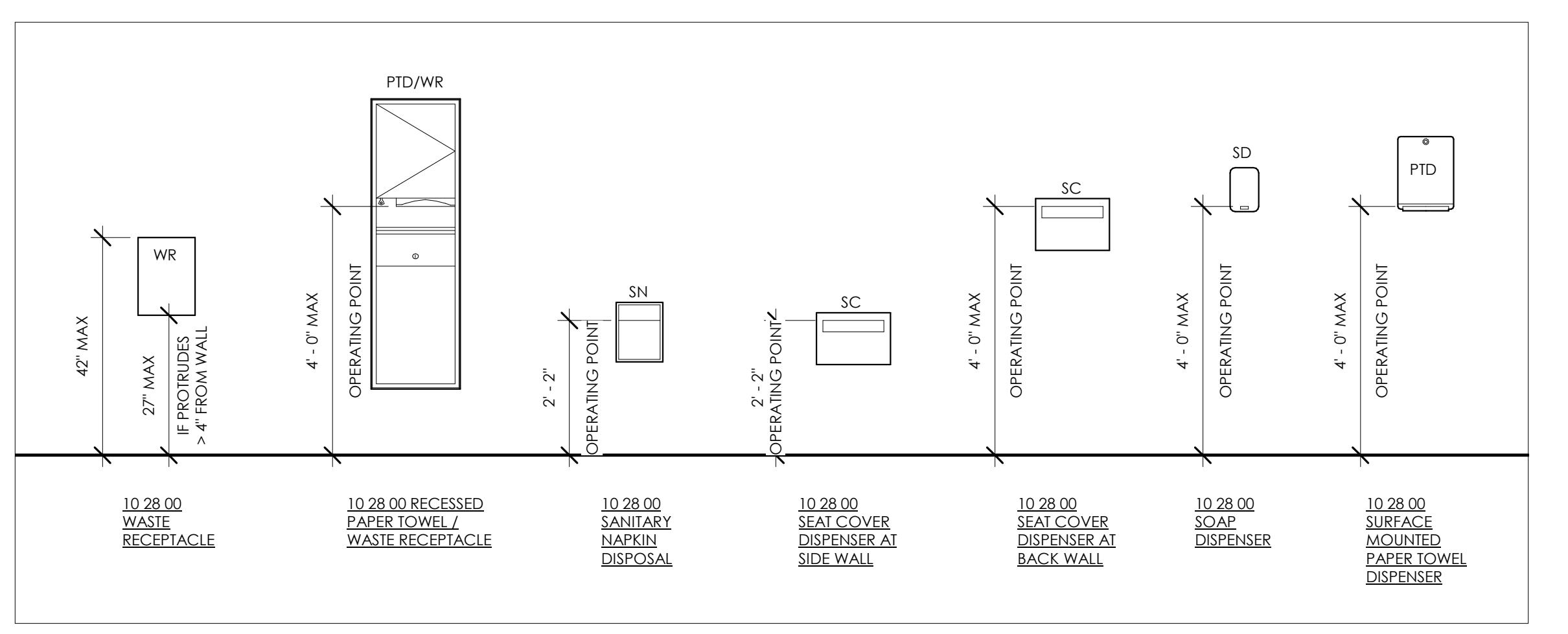
Date 04.10.2017 Description Early Start & Footing/Foundation



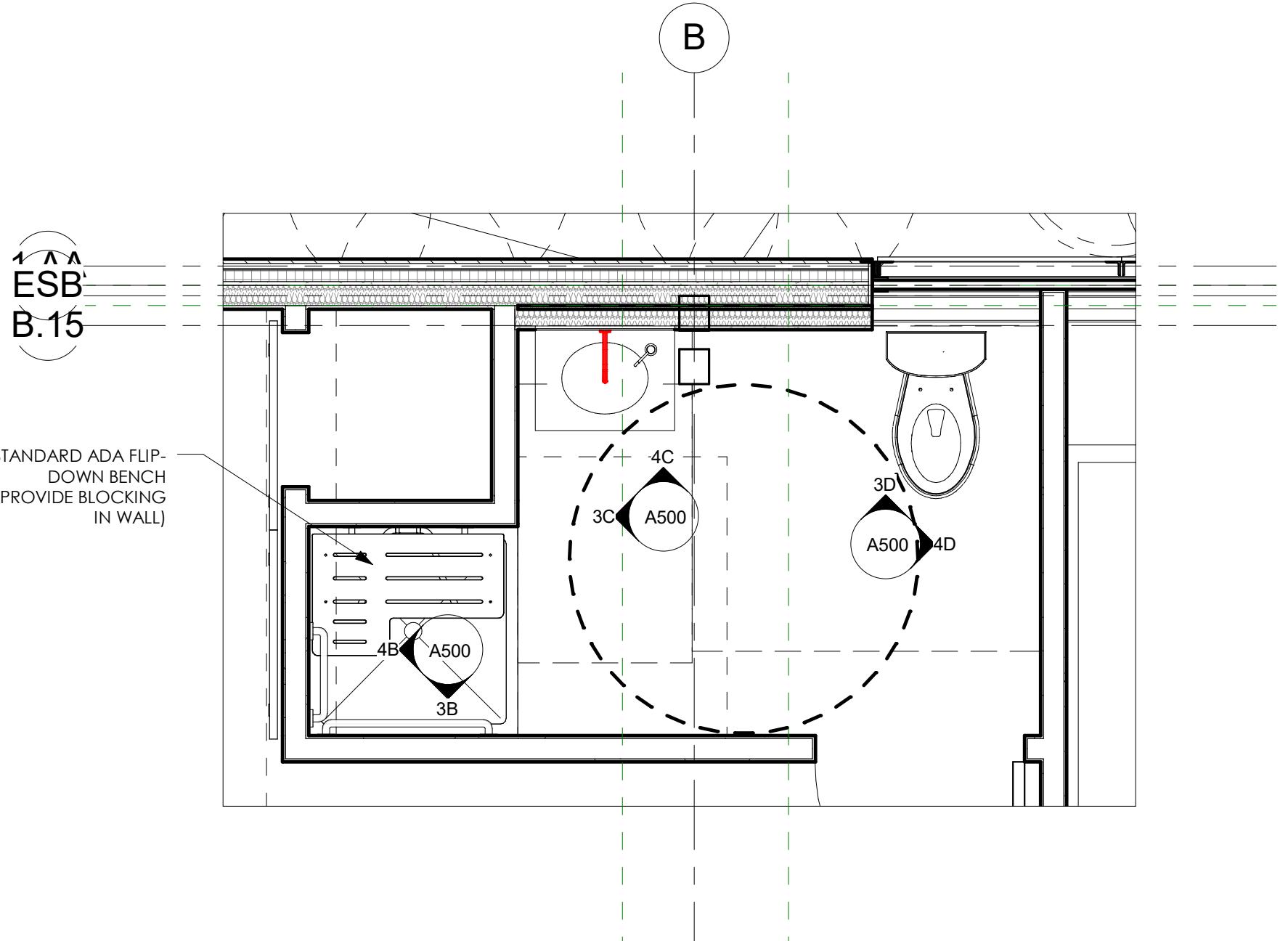
EXTERIOR DETAILS
The Downtowner | 640 West Main Street, Lake Geneva, WI 53147



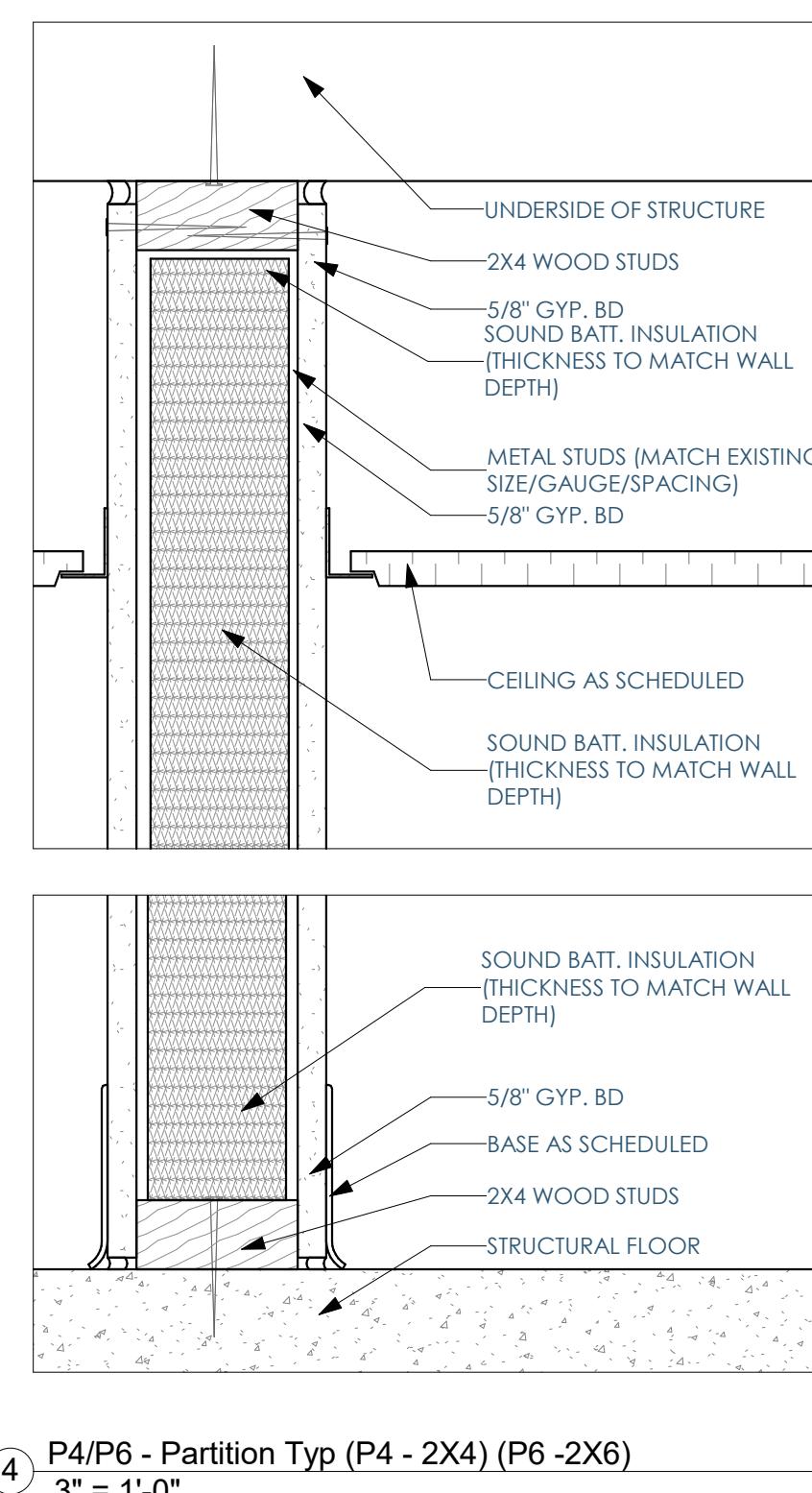
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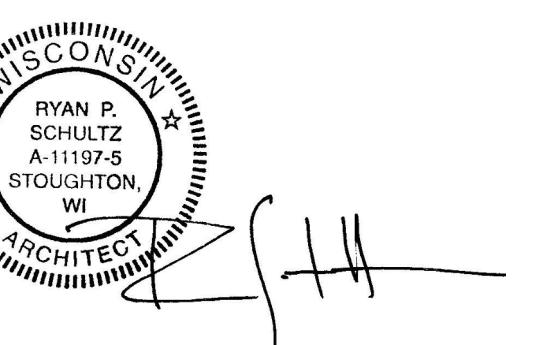
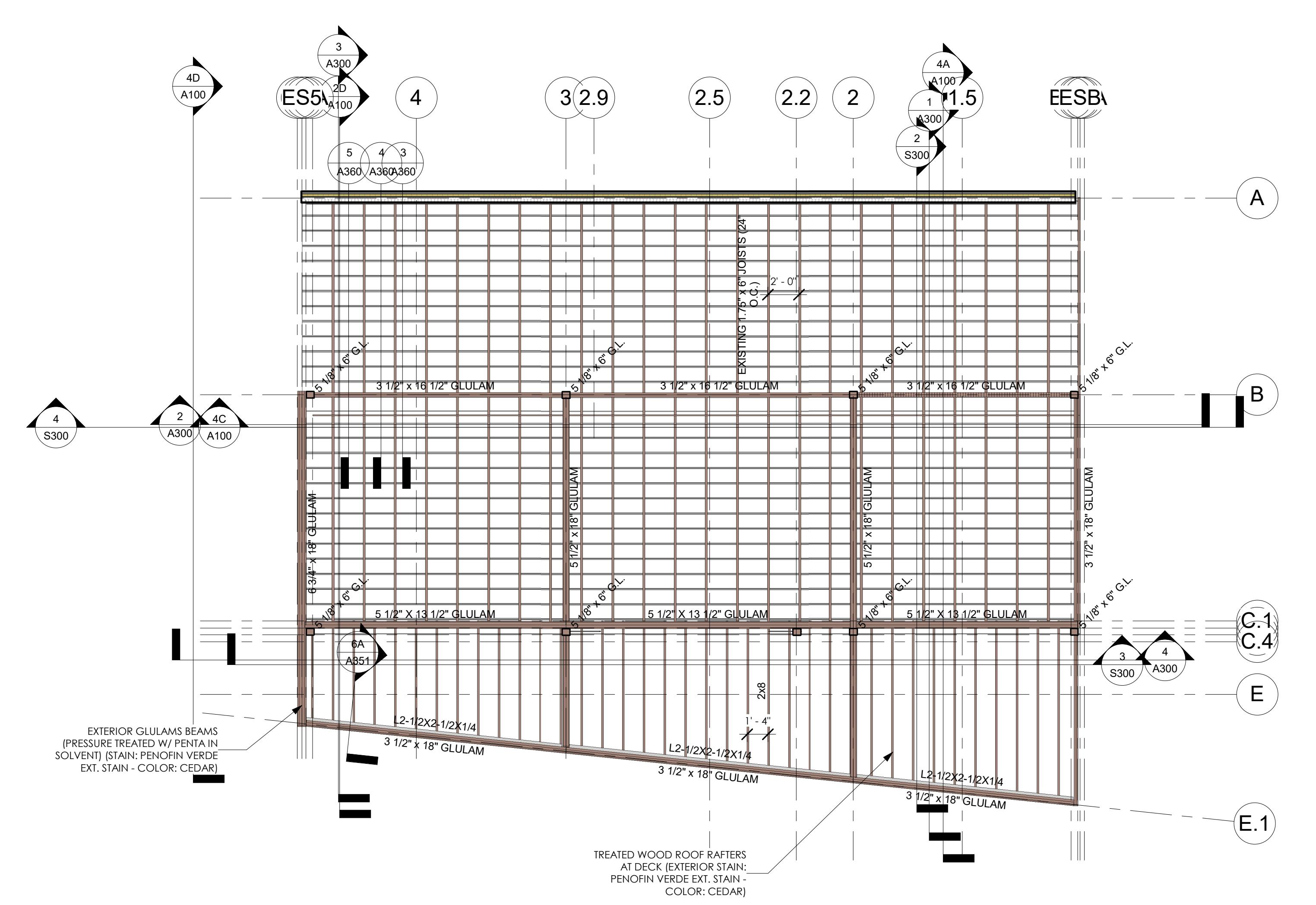
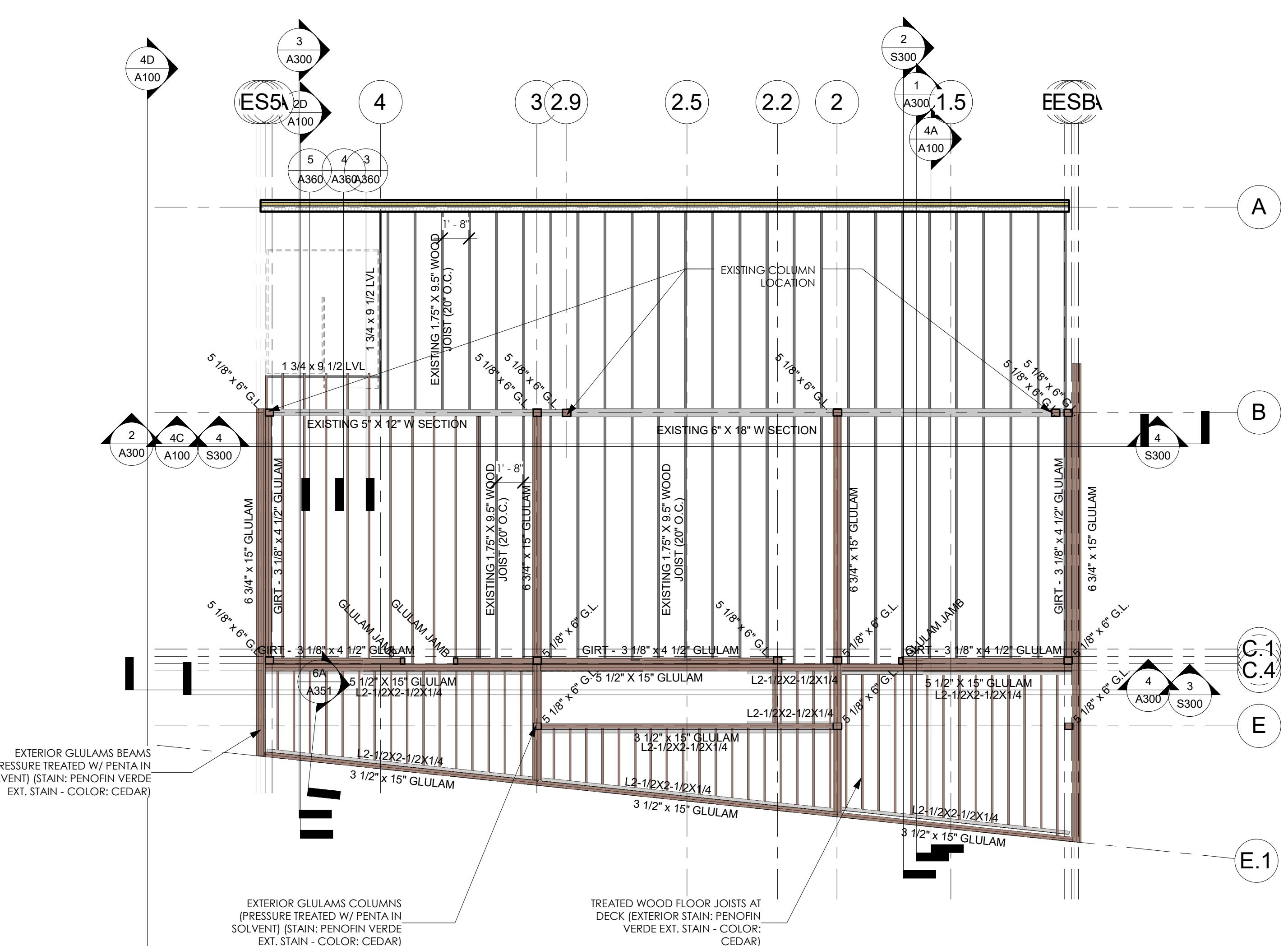
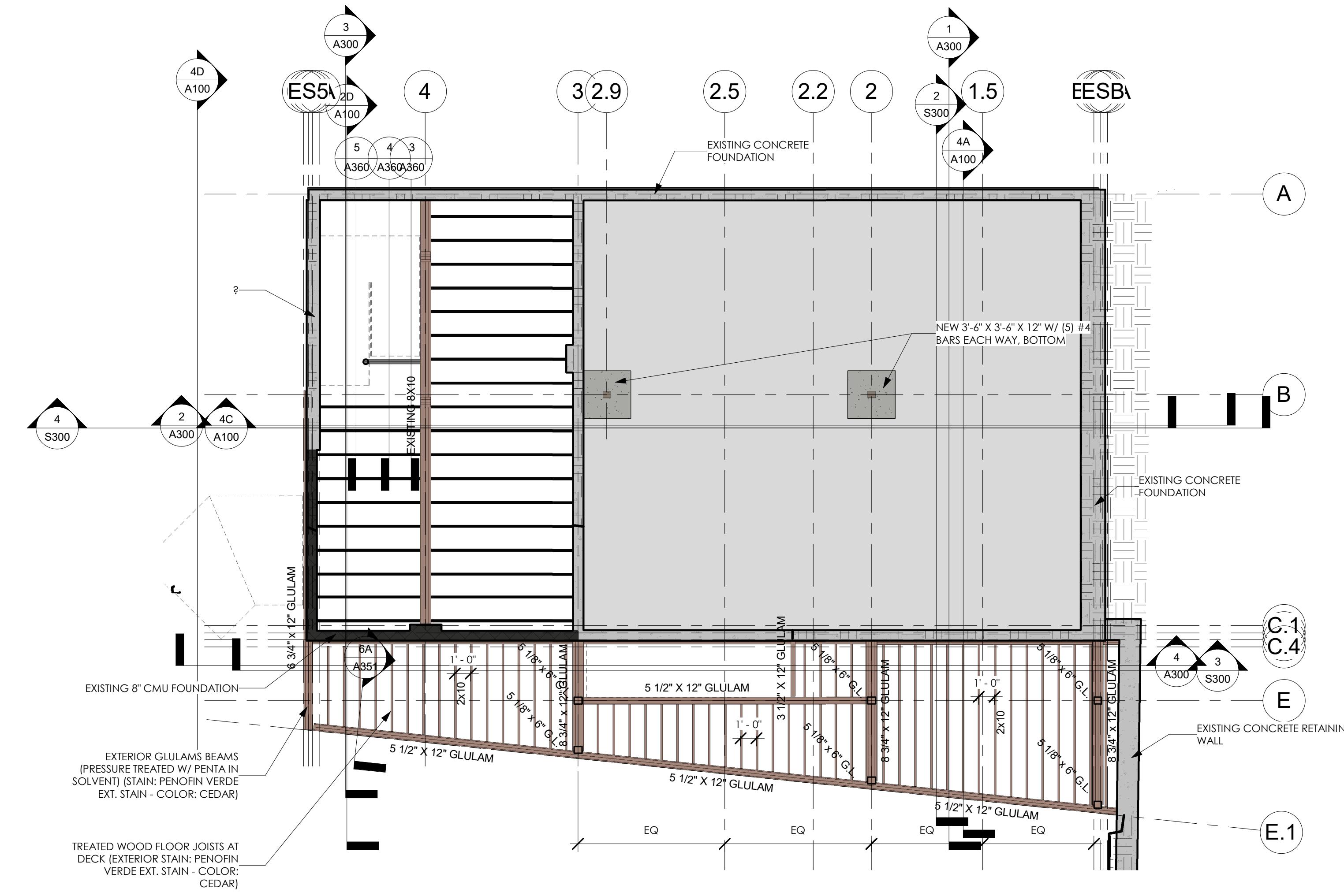
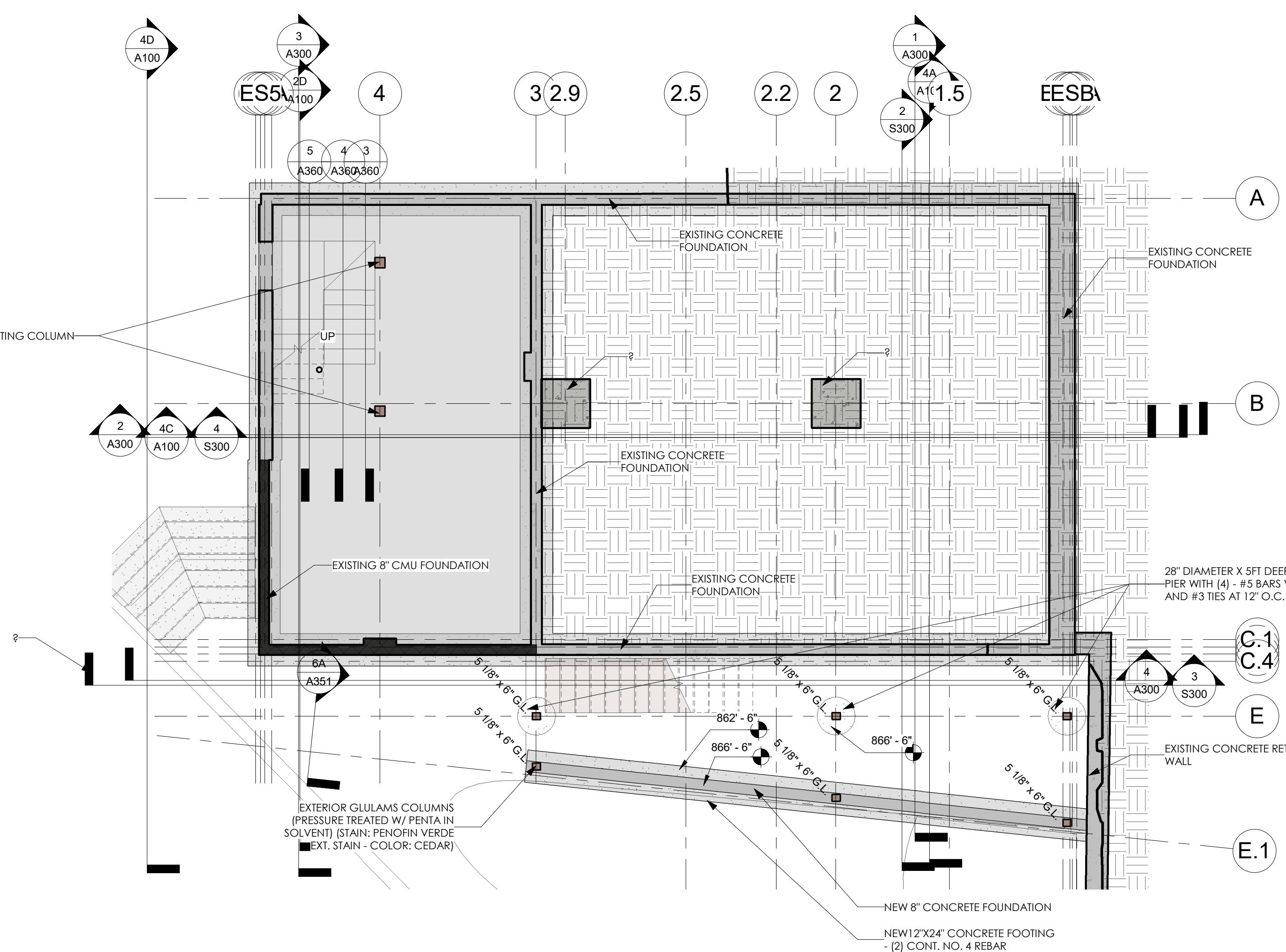
4D Toilet - Side Elevation
1/2" = 1'-0"3D Toilet - Front Elevation
1/2" = 1'-0"4C Lavatory - Front Elevation
1/2" = 1'-0"3C Lavatory - Side Elevation
1/2" = 1'-0"4B Shower - Back Elevation
1/2" = 1'-0"3B Shower - Side Elevation
1/2" = 1'-0"(3) ADA COMPLIANT HEIGHTS
1/2" = 1'-0"

DOOR SCHEDULE					DOOR SCHEDULE	
Door Number	Room Name	Room Number	Door Width	Height	OD_DS_Door_Type	Notes
8000	BASEMENT	B000	3'-0"	6'-8"	SWING	T.B.D.
203.A	BATH	203.A	2'-8"	6'-4"	SIDER	T.B.D.
204.A	BATH	204.A	2'-8"	6'-4"	SIDER	T.B.D.
203.B	BATH	203.B	5'-6"	6'-5 3/8"	SIDER	T.B.D.
204.B	BATH	204.B	2'-10"	6'-5 3/8"	SWING	T.B.D.
100.A	BATH	100.A	2'-8"	6'-4"	SIDER	T.B.D.
101.A	BATH	101.A	2'-8"	6'-4"	SIDER	T.B.D.
104.A	BATH	104.A	2'-8"	6'-4"	SIDER	T.B.D.
105.A	BATH	105.A	2'-8"	6'-4"	SIDER	T.B.D.
103.A	BATH (ADA)	103.A	3'-0"	6'-8"	SWING	T.B.D.
104.B	BEDROOM	104	3'-0"	6'-8"	SWING	T.B.D.
101	BEDROOM	101	3'-0"	6'-8"	SWING	T.B.D.
102	BEDROOM	102	3'-0"	6'-8"	SWING	T.B.D.
105.A	BEDROOM	105	3'-0"	6'-8"	SWING	T.B.D.
203	BEDROOM	203	3'-0"	6'-8"	SWING	T.B.D.
204	BEDROOM	204	3'-0"	6'-8"	SWING	T.B.D.
105.D	BEDROOM	105	3'-4"	7'-9"	DOUBLE HUNG WINDOW - STOREFRONT	ALUM./GLAZIN G
104.C	BEDROOM	104	3'-4"	7'-9"	DOUBLE HUNG WINDOW - STOREFRONT	ALUM./GLAZIN G
105.C	BEDROOM	105	3'-4"	7'-9"	STOREFRONT	ALUM./GLAZIN G
105.E	BEDROOM	105	3'-4"	7'-9"	DOUBLE HUNG WINDOW - STOREFRONT	ALUM./GLAZIN G
103.A	BEDROOM (ADA)	103	3'-0"	6'-8"	SWING	T.B.D.
103.B	BEDROOM (ADA)	103	3'-0"	6'-8"	SWING	T.B.D.
103.C	BEDROOM (ADA)	103	3'-0"	7'-9"	STOREFRONT	ALUM./GLAZIN G
101.B	CLOSET	101.B	2'-2"	6'-4"	SIDER	T.B.D.
100.B	CLOSET	100.B	2'-2"	6'-4"	SIDER	T.B.D.
104.B	CLOSET	104.B	2'-2"	6'-4"	SIDER	T.B.D.
105.B	CLOSET	105.B	2'-2"	6'-4"	SIDER	T.B.D.
102.A	CLOSET	102.A	2'-2"	6'-4"	SIDER	T.B.D.
205.A	CLOSET	205.A	2'-2"	6'-4"	SIDER	T.B.D.
102.B	CLOSET	102.B	2'-2"	6'-4"	SIDER	T.B.D.
100	CORRIDOR	106	3'-0"	6'-8"	SWING	T.B.D.
106.B	CORRIDOR	106	7'-6"	6'-5 3/8"	SIDER	T.B.D.
106	CORRIDOR	106	3'-4"	7'-9"	STOREFRONT	ALUM./GLAZIN G
201	DINING/KITCHEN	201	3'-0"	7'-11 1/2"	STOREFRONT	ALUM./GLAZIN G
109	OUTDOOR DECK	109	3'-0 1/2"	1'-11	GATE DOOR	WOOD
8001	OUTDOOR STOPOVER UNDER DECK	8001	2'-8"	1'-11 1/2"	GATE DOOR	WOOD
208.A	SCREENED PATIO	208	3'-1"	7'-0"	STOREFRONT	ALUM./GLAZIN G
208.B	SCREENED PATIO	208	3'-0"	7'-0"	STOREFRONT	ALUM./GLAZIN G
208.C	SCREENED PATIO	208	3'-0"	7'-6"	SWING	WOOD - SCREEN
108	STAIR	108	3'-0"	7'-0"	STOREFRONT	ALUM./GLAZIN G
205	STORAGE	205	2'-10"	6'-8"	SWING	T.B.D.

(1) ADA (TYPE A) RESTROOM PLAN
1/2" = 1'-0"

Window Schedule			
Type Mark	Width	Height	Type Comments
W1	3'-1"	3'-1"	Fiberglass and Fibrex clad wood awning window
W1	3'-1"	3'-1"	Fiberglass and Fibrex clad wood awning window
W1	3'-1"	3'-1"	Fiberglass and Fibrex clad wood awning window
W1	3'-1"	3'-1"	Fiberglass and Fibrex clad wood awning window
W1	3'-1"	3'-1"	Fiberglass and Fibrex clad wood awning window
W1	3'-1"	3'-1"	Fiberglass and Fibrex clad wood awning window
W1	3'-1"	3'-1"	Fiberglass and Fibrex clad wood awning window

(4) P4/P6 - Partition Typ (P4 - 2X4) (P6 - 2X6)
3" = 1'-0"



Architect: OpeningDesign
312 W. Lakeside St. | Madison, WI 53715
hello@openingdesign.com | 773-425-6456

Date: 04.10.2017 Description: Early Start & Footing/Foundation



#1075-B, 10th main, HAL 2nd stage,
Bengaluru -08
HVAC Designer: Desapex
shreenidhi@desapex.com

STRUCTURAL - SECTIONS

et, Lake Geneva, WI 53147

The Downtowner | 640 West Main Street, Lake Geneva, WI 53147

S300

Date	Description
05.03.2017	Issue for Permit

Date	Description
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Date	Description
05-06-2017	Leave for Berlin

05.03.2017 Issue for Permit

For more information about the study, please contact Dr. John Smith at (555) 123-4567 or via email at john.smith@researchinstitute.org.

Page 10 of 10

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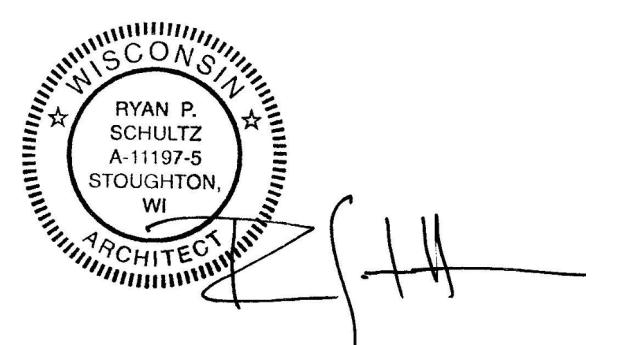
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+1075-B, 10th main, HAL 2nd stage,
Bengaluru -08
HVAC Designer: Desapex
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openingdesign

BRACING DETAILS

BRACING DETAILS

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HVAC Notes

HEATING VENTILATING AND AIR CONDITIONING SPECIFICATION

Provide all labour, material, equipment, and contractor's services necessary for complete installation of all work indicated in drawings or spelled out in the contract documents, in full conformity with requirements of Wisconsin building code and of all authorities having jurisdiction.

Secure permits, licenses, and certificates. Pay all fees and charges for all work installed certifying compliance with local codes and governing authorities. Deliver certificates to building owner prior to the commencement of work.

Contractor bidding this job shall visit and inspect the job site prior to submitting his bid. Contractor shall coordinate the site visit with building owner/architect. Contractor shall ask Architect/owner any questions he may have pertaining to building standards and existing conditions that may prohibit the proper installation of his work as per plan and specifications.

The removal and relocation of certain existing work may be necessary for performance of the general work. Contractor surveying the site shall provide all necessary changes required based on existing conditions for proper installation of new work and include all the materials and required labor to do so. No allowance will be made for failure to do so. Coordinate timetable for all construction operations with building owner.

Materials and workmanship, unless otherwise noted, shall be in accordance with building standards. All materials and equipment shall be new unless otherwise noted.

All duct work and piping is shown as design intent and does not show all offsets, drops and rises of runs. Contractor shall allow in his bid price for drops and rises of duct work and piping to avoid obstructions.

Install all work to be readily accessible for operation, maintenance and repair. Minor deviations from the drawings may be made to accomplish this, but changes which involve extra cost shall not be made without approval.

The contractor shall keep all equipment and materials and all parts of the building, exterior spaces and adjacent street, sidewalks and pavements, free from materials and debris resulting from the execution of this work. Excess materials and debris will not be permitted to accumulate either on the interior or the exterior. Provide for legal removal and disposal of all dirt and debris from the building and site. Seal openings around ducts and piping through partitions, walls, floors and slabs (not in shafts) with mineral wool or other non-combustible materials and finish as determined by architect or existing building standards.

Provide all necessary flashing and counter flashing to maintain the waterproofing integrity of this building as required by the installation or removal of pipes, ducts, conduits, and equipment. Provide sleeves for duct and piping and provide escutcheons.

Contractor to follow manufacturer's recommendations and building standards for proper installation of equipment.

Contractor to coordinate all floor, wall, and slab penetrations, and exact location support all ceiling-mounted equipment, ductwork and piping. To ensure fire safety, fire rating of the ceiling must be maintained. Existing overhead construction does not permit fastening of supports and equipment, please contact steel manager. For pre-mounted equipment, provide appropriate support.

Contractor shall furnish and install all equipment, ductwork, interconnecting piping, and fittings; insulation, interlock and controls.

Contractor is responsible for field conditions and field coordination with other trades.

Equipment shall be handled and installed by the contractor. Contractor shall provide and install all interconnecting piping, refrigerant charge and control wiring as required for a complete and operable installation. This contractor is to assume complete responsibility for handling, installation and all piping connections as required.

This contractor shall provide and assume complete responsibility for start-up and 24-hour/day service with a response time not to exceed 4 hours. Provide a quote for maintenance on a quarterly basis (4 maintenance inspections a year) for a period of one year for all HVAC equipment including pre-purchased equipment as if said pre-purchased equipment were purchased by this contractor.

Contractor to provide a pressure relief valve on high pressure side of the system and update list of any new valves. All pressure relief valves, devices, and connections from air stream; install refrigeration piping of type "K" copper and to braze all connections and devices. Equipment exposed to natural elements shall be of welded or soldered construction and shall receive one (1) coat of primer and two (2) coats of paint.

This one year maintenance contract shall include, but is not limited to the following work:

1. Check lines for leakage of refrigerant/water.
2. Replace lines if necessary.
3. Lubricate compressors.
4. Check operation of thermostats.
5. Replace return air filters.
6. Clean condenser coils.
7. Check for loose electrical connections.
8. Check controls.
9. Check for noise and vibration.
10. Check for any damage during operation.
11. Check current (ampere) draw of all motors.
12. Check operation on condensate drain system.
13. Check and adjust fan belt tension (If applicable).
14. Check air temperature across evaporator.

A maintenance report shall be forwarded to the owner's facilities operation manager/team/company.

Guarantee:
Contractor shall furnish a written guarantee to replace or repair promptly, and assume full responsibility of all expenses incurred for any workmanship and/or equipment in which defects occur within one year from date of acceptance by owner.

Provide 2-color engraved nameplates (fastened with epoxy cement) on all major equipment items indicating unit number.

Submittal:
Submit coordinated shop drawings and equipment cuts for all equipment, diffusers/registers, automatic control diagrams, ductwork layout, piping layout, and sheet metal construction standards for review and approval prior to purchase, fabrication and installation.

All ductwork and equipment layout shall be submitted on a scale 1/4"=1'-0" drawings, and shall be coordinated and signed by all trades. Show ductwork section of all existing and new equipment, existing work and new work.

Submit reproducible "as-built" record drawings for building files at completion of the project, to include ductwork, piping, and equipment drawings. Scale 1/4"=1'-0".

Ducting & air distribution work:

Except as noted, all ductwork and other sheet metal work shall be in accordance with latest edition of sheet metal and air conditioning contractor's national association, Inc. (SMACNA), "duct manual and sheet metal construction for ventilating and air conditioning systems, section 1 - low velocity systems". Metal gauge as per SMACNA recommended guidelines.

All ductwork shall be galvanized sheet steel unless otherwise noted.

Minimum ductwork static pressure construction shall be 2" in. W.C. All ducts shall be seal class 'a'. Duct flange systems shall be bolted at corners, with corner inserts, and shall be sealed, not clamped and integral stiffeners.

If duct shall be corrugated, then the duct shall be no more than 10' long and 10' feet static pressure to ensure a relatively quiet system.

Noise criteria for the above applications shall not exceed 30.

Duct connections to air terminals may be made with flexible duct such that the length of the flex ducts does not exceed 6'.

Volume dampers, galvanized steel, per SMACNA "low velocity manual", except provide bearing of one end of damper rod and quadrant, with lever and locks crew of another end. For insulated ducts, quadrants mounted on collar to clear insulation, install with levers accessible. Balancing dampers shall be the opposed blade type.

Access doors: insulate or un-insulated, same as duct.

Provide minimum access door on main duct & location where fire dampers are installed. Access door shall be enough of duct cleaning & damper servicing.

All access doors to be hinged and sealed as per IFC sealing requirements.

Flexible connections: neoprene coated fabric, 30 oz. Per sq. ft. With sewed and cemented seams, like vent fabrics. Provide flexible connections between all equipment and rigid ductwork.

Turning vanes: galvanized steel, small double thickness vanes with minimum 2" inside radius.

Thermal and sound insulation:

All materials of insulation shall be of the kind and quality as manufactured by armstrong, certain-teed, johns-manville, knauf, owens-corning and pittsburgh. All material and equipment specified shall be thoroughly tested and approved prior to applying the insulation and method of application shall be as follows: the insulation shall be applied and to meet or exceed rpsfa and b requirements.

Thermal and sound insulation application and materials:

1. All supply and return air ductwork located within the upper level ceiling cavities, and in spaces of exterior locations, and in all other areas where ductwork is exposed, they shall be insulated with two-inch (2") thick, three-quarter pound (3/4 lb.) Density glass fiber with a reinforced foil / kraft (kraft) vapor retarder facing.

2. All furnace return air plenums and ductwork approximately ten feet (10') away from furnace inlet shall be lined with one-half inch (1/2") thick, three-pound (3 lb.) Density glass fibre sound insulation. The insulation shall have a black pigmented high velocity (+4000 fpm) facing set to the air stream side. Lined sizes are not indicated on drawings.

3. All refrigerant suction lines shall be covered with three-eighth inch (3/8") thick closed cell insulation.

Registers & grills:

All terminals (registers and grilles) shall be sized based on the following criteria:
Supplies — near ceiling 500 to 600 fpm velocity

Returns — high 600 to 700 fpm velocity

— low 300 to 500 fpm velocity

All grille/registers finish/color shall be approved by Architects. Contractor shall provide data sheet to Architects for approval.

All selected air terminals (grilles/registers) pressure drop shall not exceed 10 Pa.

Supply Air grille for duct/wall mounting, fits or equivalent of sizes as mentioned in drawings/schedule with Opposed blade damper. Selected Return Air grille for duct/wall mounting, fits or equivalent of sizes as mentioned in drawings/schedule with opposed blade damper.

3. All grille/registers shall be factory pre-wired with power cord and plug.

The contractor shall furnish starters, contacts, disconnects, etc. For his equipment for installation by the electrical contractor. This contractor shall coordinate all work and locations of HVAC equipment with the electrical contractor.

All interconnecting wiring at unit shall be factory prewired and require only one power connection to the unit by the electrical contractor. Disconnect switch shall be by the electrical contractor.

Contractor to submit data sheets for all HVAC equipment for rough-in inspection. Shop drawings and equipment submittals must be submitted and approved before any installation takes place. Submit catalogue prints for, for the equipment specified, to the architect/engineer for approval prior to the beginning of construction. The contractor shall also assemble printed instructions for the operation and maintenance of each item installed and bind together with equipment cuts and control wiring diagrams.

Miscellaneous:
All cutting, coining, and patching shall be by this contractor. Coordinate locations of roof penetrations with the general contractor. All penetrations through foundations and concrete slabs shall be sealed.

All penetrations through fire-rated assemblies shall be sealed tight with an approved fire stop material, 3m cp 25wb+ caulk or equal. Utilize isolation methods to prevent the migration of noise created by vibration. Methods include utilization of vibration isolation hangers, pads and flexible duct connectors on the turbines and route packaged HVAC equipment.

The engineer shall not have control over or charge of and shall not be responsible for construction means, methods, techniques, sequences or procedures or safety precautions and programs about the work, since they are solely the contractor's responsibility under the contract for construction.

Balancing specification:
Balancing shall be done by contractor.

1. Test and balance HVAC air systems to within +10%, -5% of design flows.

2. Check all fans, instruments, devices, control dampers, etc., for proper operation and calibration. Report deficiencies which cannot be corrected. Mark and lock manual volume dampers of their proper position.

3. Adjust, test and compare design air flow rates, pressures, temperatures, air quantities, equipment speed and motor amperages (all phases) for each segment.

4. Verify that registers/grille discharge patterns have been properly set. Air flows shall be balanced with the volume dampers installed in branch ductwork or with OBD provided for air terminals. Opposed dampers (OBD) in the air terminals shall be set in the fully open position during balancing.

5. Adjustments and tests shall be made under simulated normal room conditions.

6. Contractor shall provide a balancing report from (building approved) air balancing company. Balance all outlets to air quantities as noted on drawings.

8. Prepare report, including forms, and submit to owner's facilities manager.

Equipment

1. The equipment listed in schedule is to be used as a guide. Equipment of equal performance, construction, suitability of use, guarantees, warranties, etc. may be substituted upon approval of the general contractor and engineer.

2. All equipment/devices shall be new and of first rate quality (unless otherwise specified) and is to bear the appropriate aga, csa or ul approved labels, listings, and certifications for the specific design purpose.

Exhausts

1. Vent all listed exhaust fans out through roof or side wall with vent cap, built-in grills, backdraft damper and bird screen.

Condensing units

All condensing units to be located as shown in drawings. Condensing unit shall be provided with 6" thick pedestal or on factory fabricated equipment mounting rails. Minimum service clearance of 24" or as suggested by manufacturer shall be provided. 4" x 4" pads of vibration isolation material by manufacturer shall be provided under four points of support.

Fresh air intake

Outside air intakes shall be 10' above grade and a minimum of 15'-0" from all exhaust air or relief opening and sources of contamination. Fresh air intake louver or duct shall have damper to control the fresh air flow rate.

Piping

A. Condensate drain lines shall be done by HVAC contractor to nearest plumbing drain or as suggested/approved by Architect. All materials shall be as accepted by Code and applicable to its use.

B. Refrigerant line piping shall be copper type k. All joints to be brazed.

Gas piping

Provide and arrange for all new natural gas services extending from the main service to each item of equipment requiring gas service necessary: furnace, appliance, device & domestic water heater. Include all regulators, valves, fittings, etc., required for a first-class installation in accordance with A.G.A. and gas company requirements.

All underground gas piping shall be wrapped in accordance with guidelines set by local utility, tape coat cold for tape or equal. Gas piping lines shall be new class a-120, black carbon steel, schedule 40 with 150# malleable iron with brass ground joints. Each gas connection to fixture shall be 150# malleable iron with brass ground joints. Each gas connection to fixture shall be 150# malleable iron with brass ground joints.

All connections to the various gas-fired equipment shall be complete with gas cocks, unions and dirt pockets. Follow all rules, regulations and guidelines as stipulated by the American Gas Association, in addition to the local gas utility, people gas. This contractor shall be responsible for all gas piping string. Verify all items to be connected with the architect and mechanical drawings prior to sizing.

Temperature controls

Temperature controls, temperature controls, wiring, etc. Shall be by this contractor. Each piece of equipment shall be wired as instructed by a manufacturer's guide and/or representative.

B. All control wiring to be installed in conduit.

C. Coordinate line voltage requirements with the electrical contractor.

D. Items are to be controlled by twelve split systems for furnaces and condensing units.

E. Each installation to be complete in all aspects and tested for proper operation.

Electrical equipment

The contractor shall furnish starters, contacts, disconnects, etc. For his equipment for installation by the electrical contractor. This contractor shall coordinate all work and locations of HVAC equipment with the electrical contractor.

All interconnecting wiring at unit shall be factory prewired and require only one power connection to the unit by the electrical contractor. Disconnect switch shall be by the electrical contractor.

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4. Verify that registers/grille discharge patterns have been properly set. Air flows shall be balanced with the volume dampers installed in branch ductwork or with OBD provided for air terminals. Opposed dampers (OBD) in the air terminals shall be set in the fully open position during balancing.

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7. Contractor shall provide a balancing report from (building approved) air balancing company. Balance all outlets to air quantities as noted on drawings.

8. Prepare report, including forms, and submit to owner's facilities manager.

HVAC Legends

6 | 5 | 4 | 3 | 2 | 1

FYF LLC.
Owner: FYF LLC,
43 S Water St E | Fort Atkinson, WI
ilovefunkys@hotmail.com

Zenteno
Solutions

Plumbing Designer: Zenteno Solutions
1530 P B Lane # Z4646
WICHITA FALLS, TX, 76302
roberto@zenteno.net | 832.449.9278



Desapex

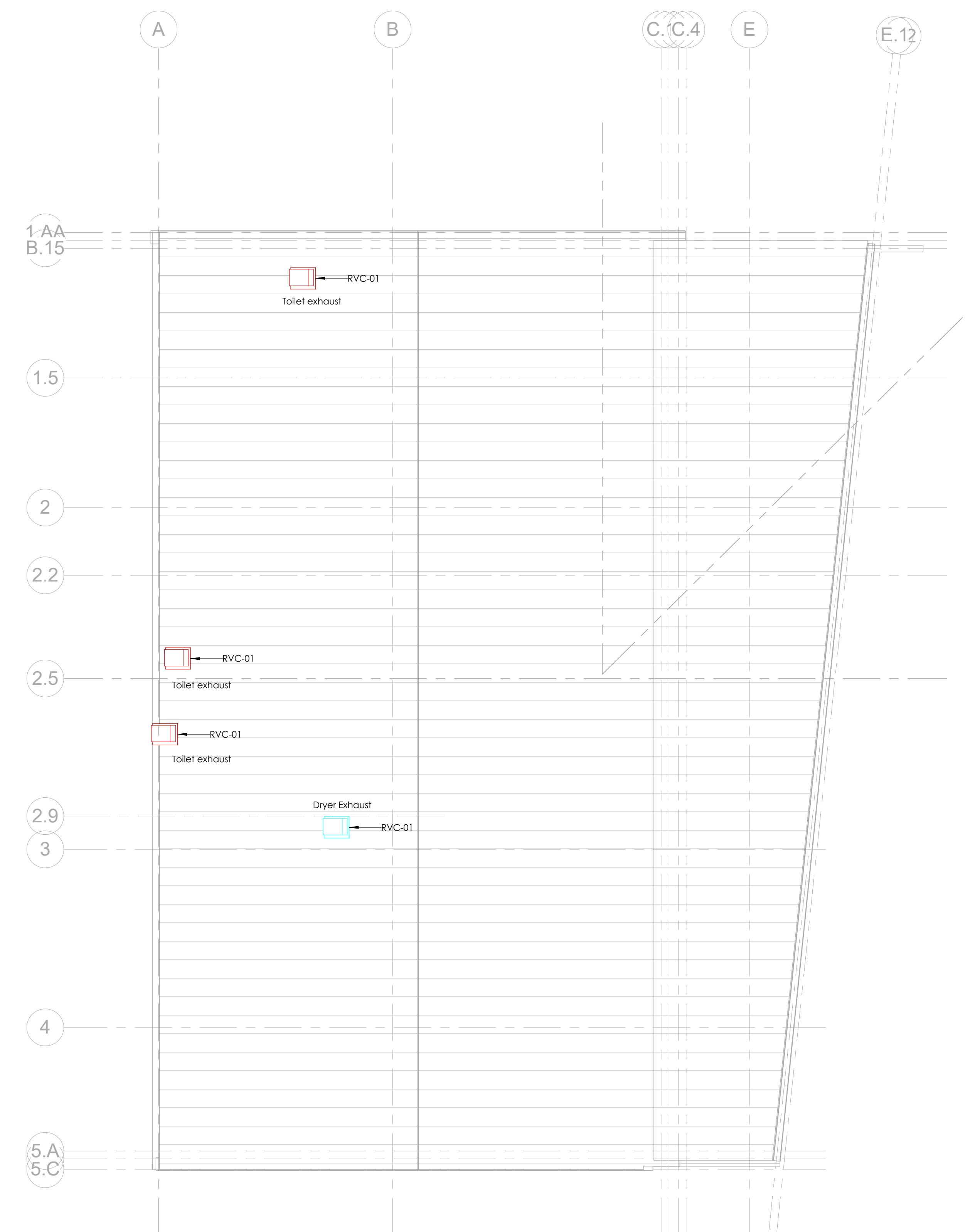
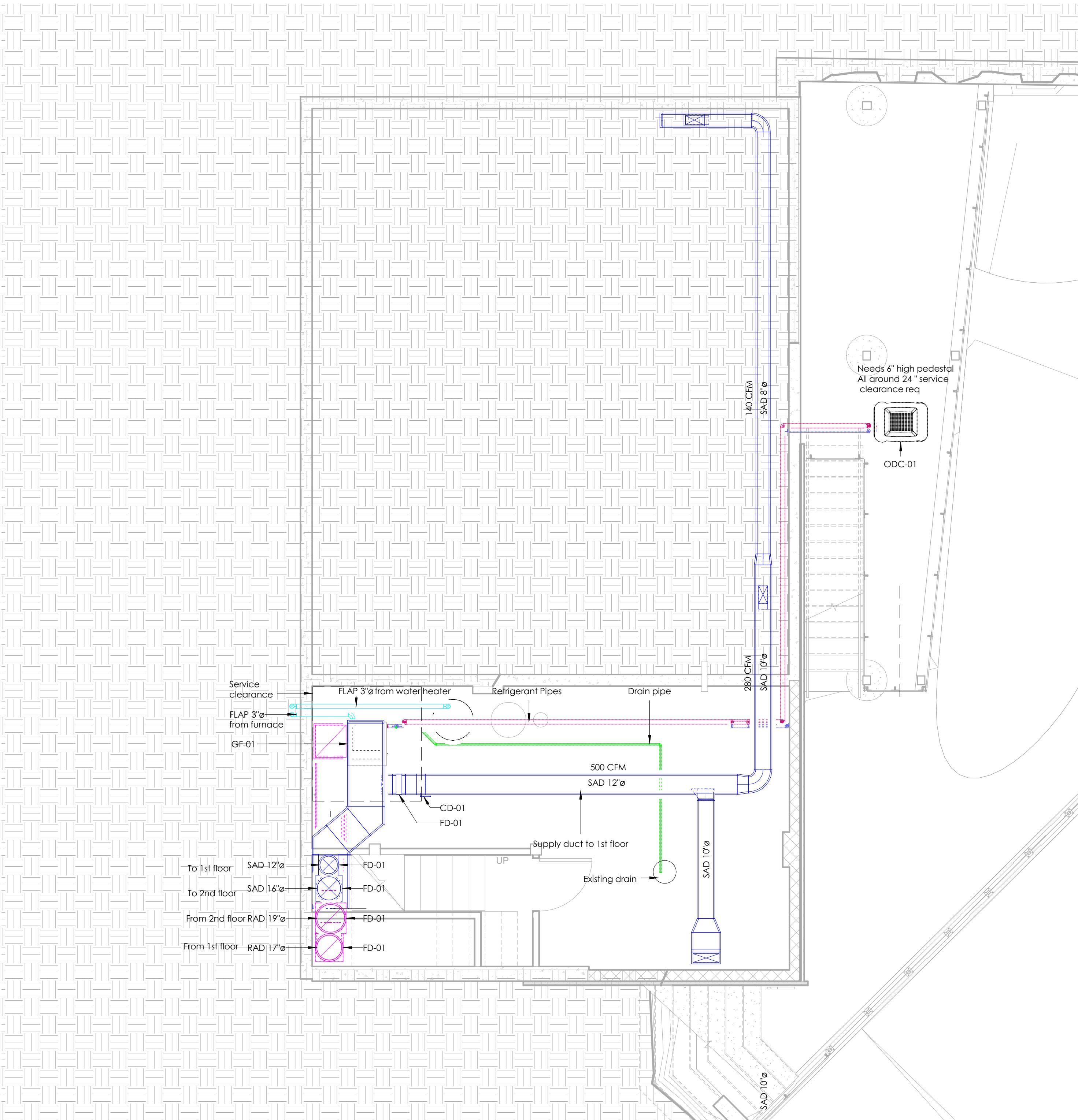
#1075-B, 10th main, HAL 2nd stage,
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HVAC Designer: Desapex
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WISCONSIN
RHM P.
SCHULTZ
A-111075
STUTTGART
WI
ARCHITECT
[Signature]



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Architect: OpeningDesign
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Date	Description
05.03.2017	Issue for Permit



HVAC Basement & Roof plan
Lake Geneva | Enter address here

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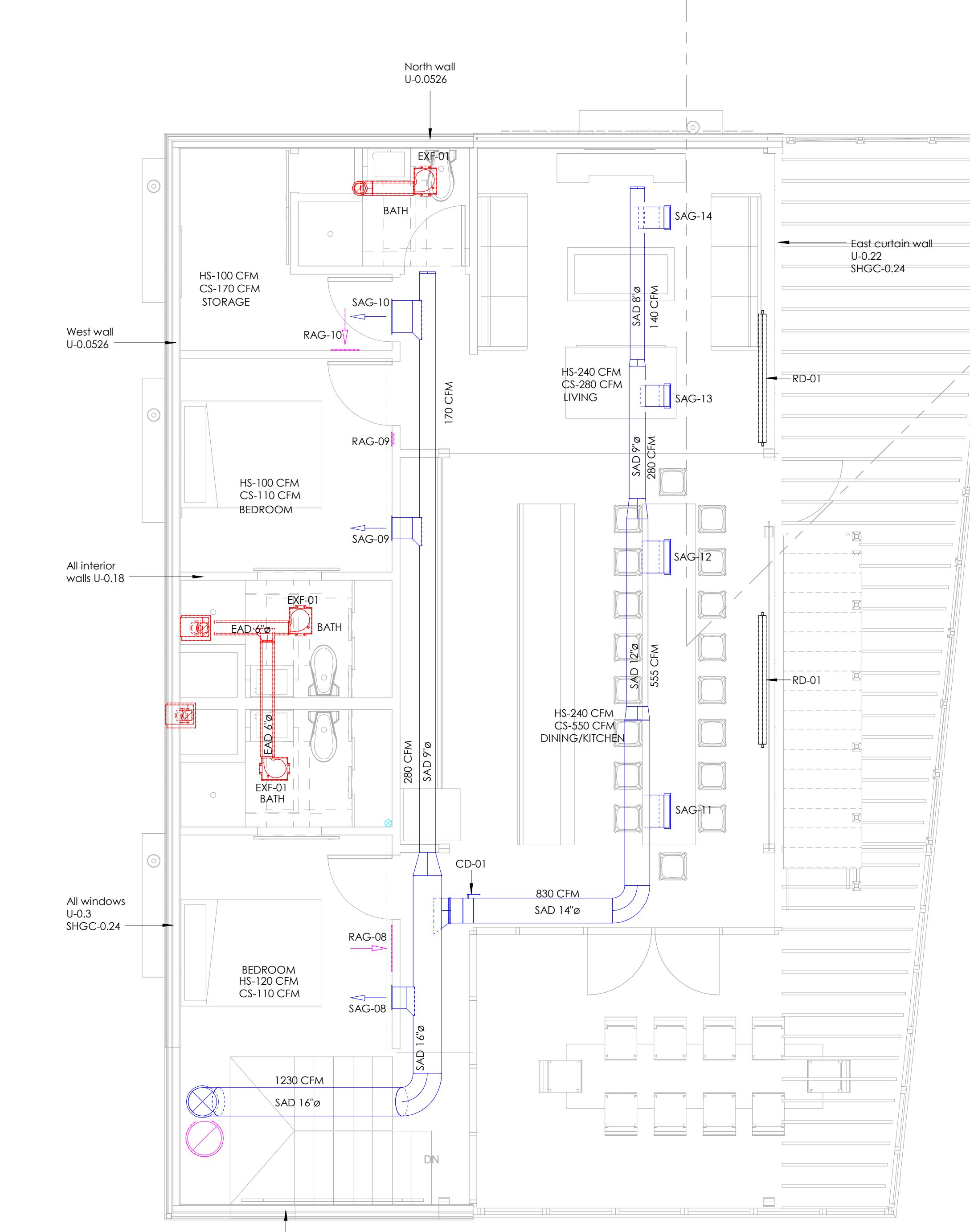
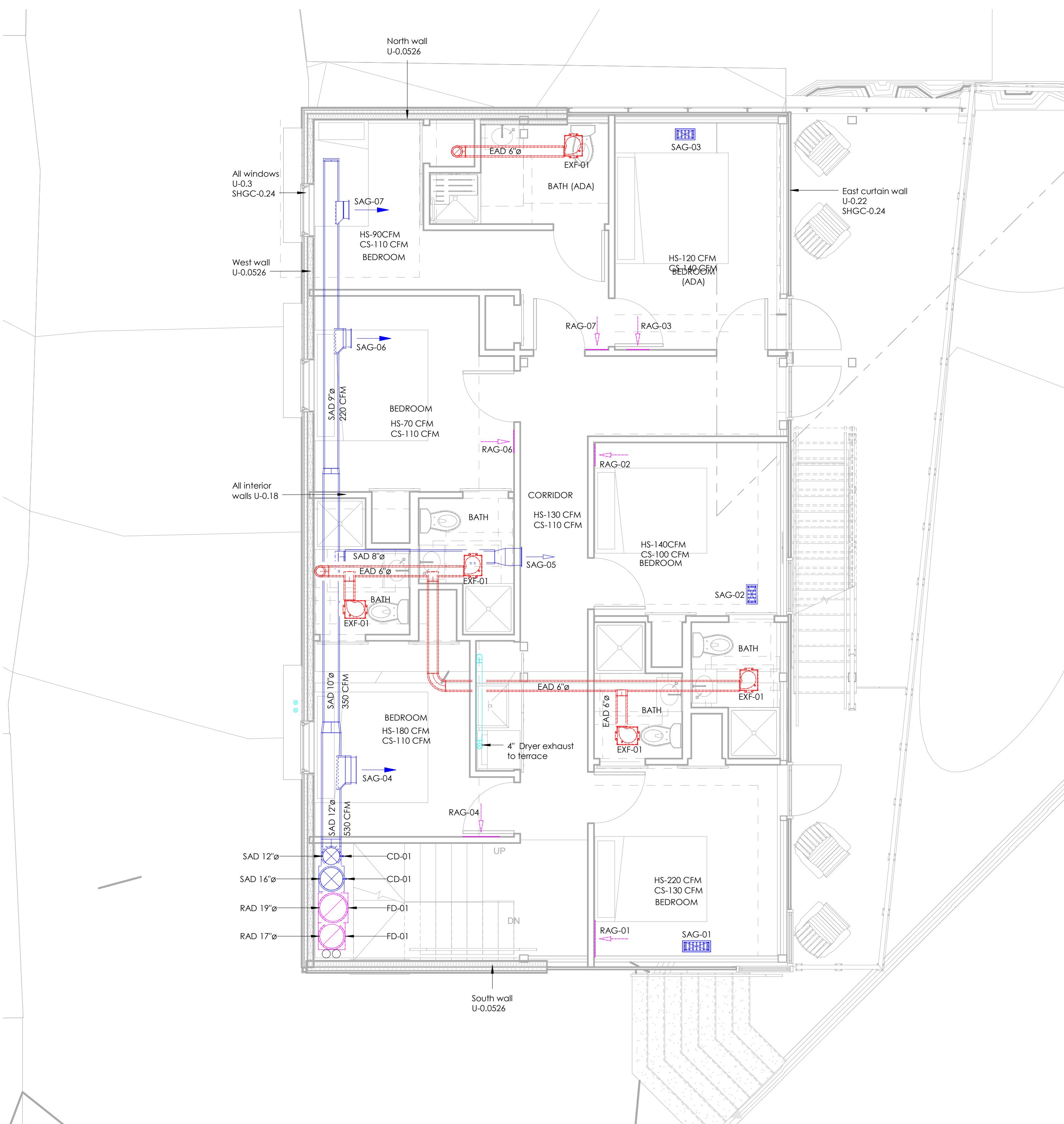
FYF LLC.

Zenteno Solutions

Plumbing Designer: Zenteno Solutions
1530 P B Lane # Z4646
WICHITA FALLS, TX, 76302
roberto@zenteno.net | 832.449.9278



#1075-B, 10th main, HAL 2nd stage,
Bengaluru -08
HVAC Designer: Desapex
shreenidhi@desapex.com



HVAC 1st & 2nd Floor plan
Lake Geneva | Enter address here

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04-05-2017 19:44

Date	Description
05-03-2017	Issue for Permit

PLUMBING ABBREVIATIONS

ABOVE FINISHED FLOOR	LAV	LAVATORY	SAN -
ABOVE FINISHED CEILING	NIC	NOT IN (SECTION 15400)	SAN -
CONNECTION		CONTRACT	
CONTINUATION	NO	NORMALLY OPEN	
CEILING	NC	NORMALLY CLOSED	GW
CUBIC FEET PER HOUR	NTS	NOT TO SCALE	
CONTRACTOR	OFCI	OWNER FURNISHED AND	GW
DRAWING		CONTRACTOR INSTALLED	
DRINKING FOUNTAIN	OFI	OWNER FURNISHED AND INSTALLED	SD
ELECTRICAL CONTRACTOR (DIVISION 16)	PSI	POUNDS PER SQUARE INCH	SD
ELECTRIC WATER COOLER	PC	PLUMBING CONTRACTOR (SECTION 15400)	
ELEVATION	S.F.	SQUARE FEET	CD
FIRE PROTECTION CONTRACTOR (SECTION 15300)	SHWR	SHOWER	
FLOOR	SK	SINK	D
FINISHED FLOOR ELEVATION	TOP	TOP OF PIPE ELEVATION	
GALLONS PER MINUTE	TP	TRAP PRIMER	
GREASE TRAP	TYP	TYPICAL	
GENERAL CONTRACTOR	UR	URINAL	
HEATING VENTILATION AND AIR CONDITIONING (SECTION 15600)	VTR	VENT THROUGH ROOF	
INVERT OF PIPE ELEVATION	W.C.	WATER COLUMN	
JANITORS SINK	WTS	WATER TIGHT SLEEVE	
KITCHEN EQUIPMENT CONTRACTOR	W&V	WASTE AND VENT	
	WC	WATER CLOSET	
	WS	WASTE STACK	SOFT

PLUMBING PIPING LEGEND

SAN	SOIL OR WASTE PIPING ABOVE GRADE
SAN	SOIL OR WASTE PIPING BELOW GRADE
GW	GREASE WASTE PIPING (GW)
GW	GREASE WASTE PIPING BELOW GRADE (GW)
SD	STORM DRAIN PIPING (SD)
SD	STORM DRAIN PIPING BELOW GRADE (SD)
CD	CONDENSATE DRAIN PIPING (CD)
D	CONDENSATE EQUIPMENT DRAIN PIPING (D)
	VENT PIPING (V)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RETURN PIPING (HWR)
SOFT	SOFT WATER PIPING (SOFT)
CHW	CHILLED WATER PIPING (CHW)
TP	TRAP PRIMER LINE (TP)
FIRE	FIRE PROTECTION PIPING (FIRE)
G	NATURAL GAS PIPING (G)
AIR	COMPRESSED AIR PIPING (AIR)

PROJECT NOTES

- 1 . SANITARY WASTE AND VENT SYSTEM DESIGNED IN ACCORDANCE GENERAL ENGINEERING PRACTICES AND LOCAL BUILDING CODES.

2 . ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE AND INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION. WORK SHALL BE COMPLETE IN ALL RESPECTS AND IN ACCORDANCE WITH THE BEST ESTABLISHED AND ACCEPTED CONSTRUCTION PRACTICES.

3 . THIS CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT/ ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.

4 . COORDINATE EXACT LOCATION OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

5 . IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE AND WORKABLE INSTALLATION BE PROVIDED. TO THIS END, THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, SUPERVISION, TRANSPORTATION, WAREHOUSING AND OTHER SERVICES REQUIRED TO COMPLETE THE WORK IN AN EFFICIENT AND TIMELY MANNER.

6 . CONTRACTOR SHALL PROCURE ALL REQUIRED PERMITS FROM THE LEGALLY CONSTITUTED AUTHORITIES, ARRANGE ALL INSPECTIONS AND PAY FOR ALL REQUIRED TESTING AND UTILITY CONNECTIONS.

7 . CONTRACTOR SHALL PROTECT EXISTING BUILDINGS, STRUCTURES AND UTILITIES FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER.

8 . THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO EXTENT THAT ALL OFFSETS, BENDS, SPECIAL FITTING LOCATIONS ARE NOT EXACTLY LOCATED.

9 . ALL INDICATED DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR ESTIMATE PURPOSES ONLY. BEFORE PROCEEDING WITH THE WORK, CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS, SIZES, REQUIRED CLEARANCES AND SHALL ASSUME FULL RESPONSIBILITY FOR THE FITTING OF ALL EQUIPMENT AND MATERIALS HEREIN REQUIRED TO OTHER PARTS OF THE WORK AND TO THE WORK OF THE OTHER TRADES.

DRAWING LIST

SHEET	DESCRIPTION
P0.00	PLUMBING SYMBOLS & ABBREVIATIONS
P1.01	BASEMENT & FIRST FLOOR SANITARY PLAN
P1.02	SECOND FLOOR AND ROOF PLUMMING PLANS
P1.03	BASEMENT & FIRST FLOOR WATER DISTRIBUTION
P1.04	DETAILS
P1.05	RISER DIAGRAMS

PIPE MATERIAL LIST

DE, INSIDE RESIDENCE

ASTE, AND VENT PIPING SHALL BE
SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM-2665 WITH SOLVENT WELDED JOINTS. PVC NOT ALLOWED IN RETURN AIR PLENUM

WATER PIPING SHALL BE
DRAWN (HARD) COPPER WATER TUBE, TYPE "L", ASTM B88, WITH WROUGHT COPPER FITTINGS, ANSI B16.22 AND 95-5 SOLDER JOINTS. COPPER FOR ANYTHING OVER 150 PSI, CPVC SCHEDULE 80 FOR ANYTHING UNDER 150 PSI. PEX-B PIPING FOR DISTRIBUTION IN EACH UNIT.

GAS PIPING SHALL BE
SCHEDULE 40 BLACK STEEL, SEAMLESS, OR ELECTRIC RESISTANCE WELDED, ASTM A-53 WITH WELDED JOINTS AND STEEL FITTINGS SAME THICKNESS AS PIPE. LOW PRESSURE (LESS THAN 1 PSI) PIPING 2 INCHES AND SMALLER MAY BE SCHEDULE 40 GALVANIZED STEEL PIPE WITH MALLEABLE IRON 150 PSI CLASS FITTINGS ANSI B16.3, BANDED AIR TESTED AND SCREWED JOINTS.

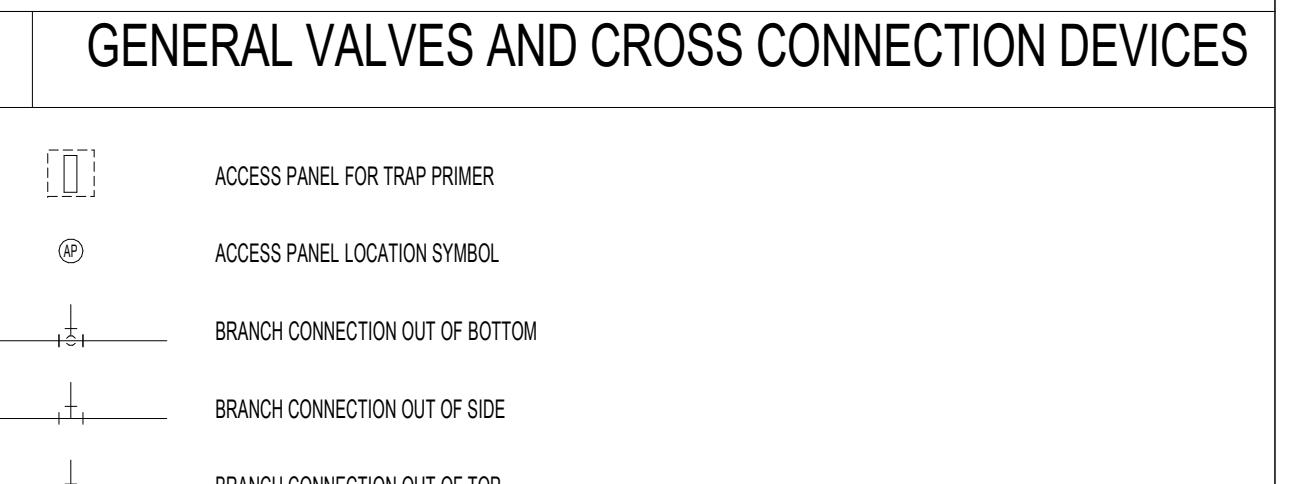
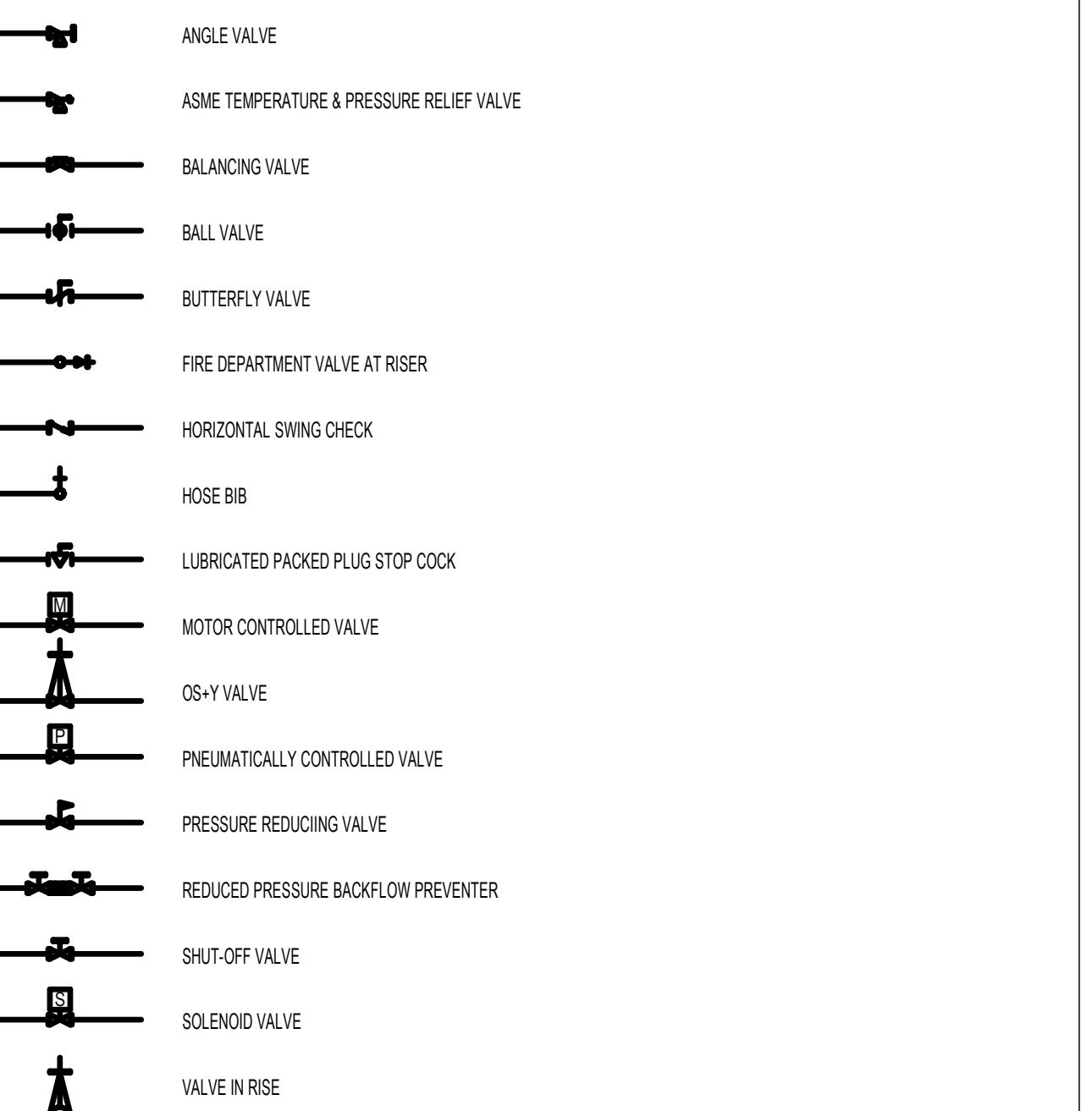
DE INSIDE BUILDING

ASTE, AND VENT PIPING SHALL BE
SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM-2665 WITH SOLVENT WELDED JOINTS.

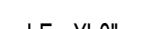
WATER PIPING SHALL BE
DRAWN (HARD) COPPER WATER TUBE, TYPE "L", ASTM B88, WITH WROUGHT COPPER FITTINGS, ANSI B16.22 AND 95-5 SOLDER JOINTS.

GAS PIPING SHALL BE
NATURAL GAS PIPING IS NOT TO BE INSTALLED BELOW SLAB INSIDE BUILDING.

GENERAL VALVES AND CROSS CONNECTION DEVICES



PLUMBING NOTES AND DESIGNATIONS

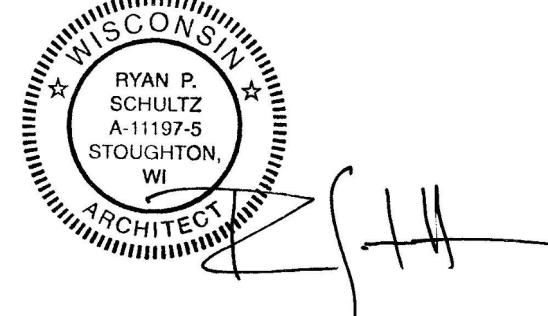
<u>I.E=-X'-0"</u>	INVERT ELEVATION NOTE		HUB DRAIN (HD)
	NOTE DESIGNATIONS		NEW CONNECTION TO EXISTING
<u>P-XX</u>	PLUMBING FIXTURE DESIGNATION		PIPE CONTINUATION
	RISER DIAGRAM DESIGNATION		PIPING DOWN
			PIPING UP -OR- PIPING UP AND DOWN
			SHOCK ABSORBER
			STRAINER
			UNION

Owner: FYF LLC.
43 S Water St E | Fort Atkinson,
ilovefunkys@hotmail.com

Plumbing Designer: Zenteno Solutions
1530 P B Lane # Z4646
WICHITA FALLS, TX, 76302
roberto@zenteno.net | 832.449.9278

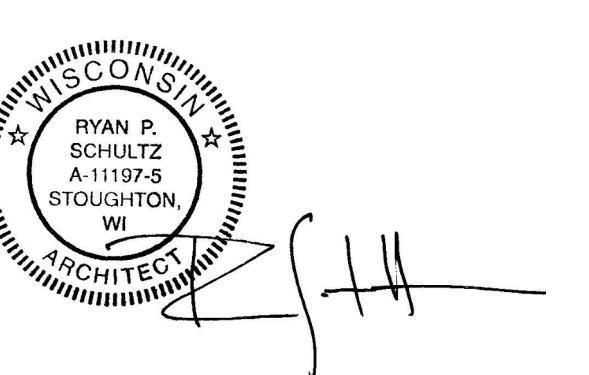


#1075-B, 10th main, HAL 2nd sta
Bengaluru -08
HVAC Designer: Desapex
shreenidhi@desapex.com

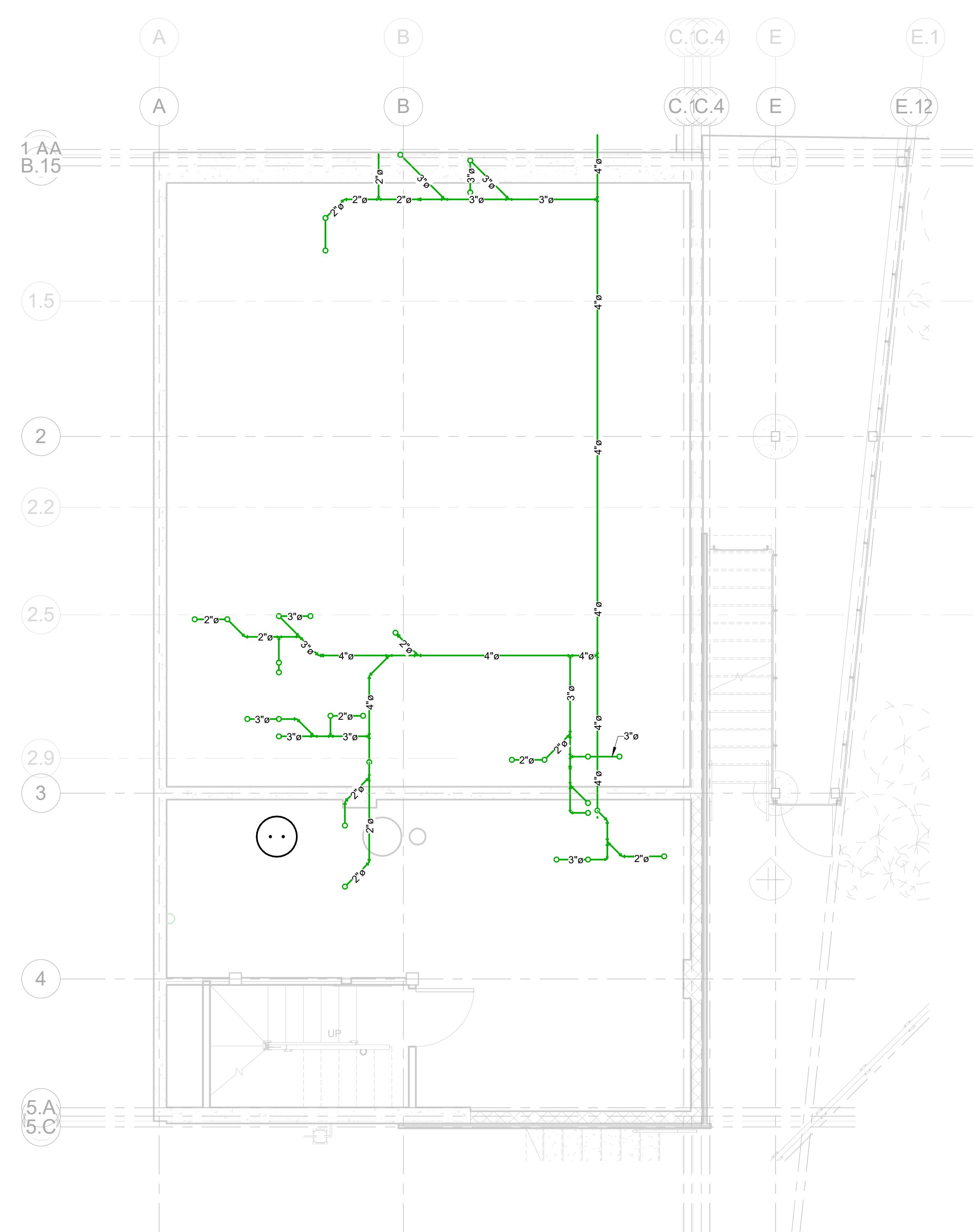


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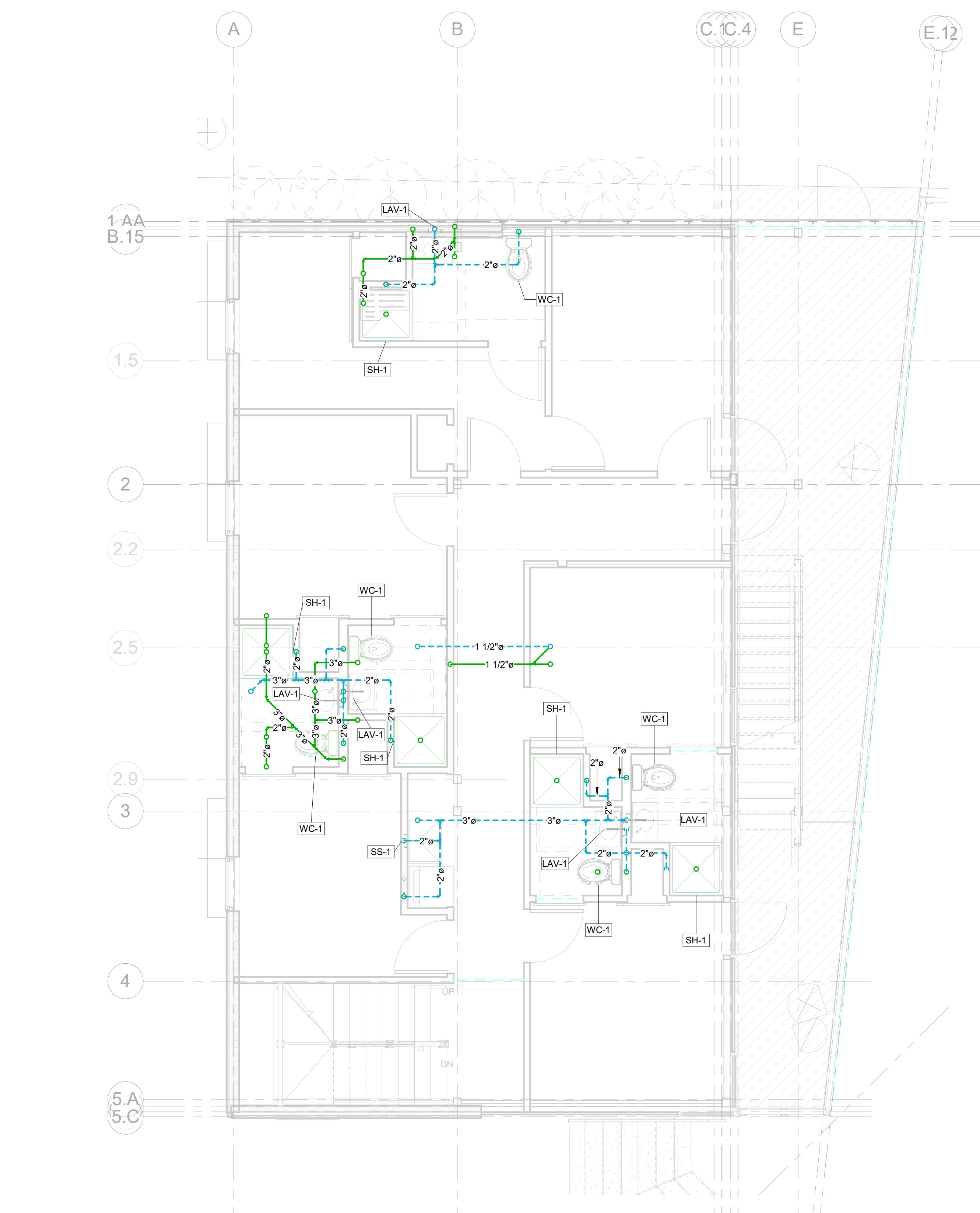
hello@openingdesign.com | 773-425-6456



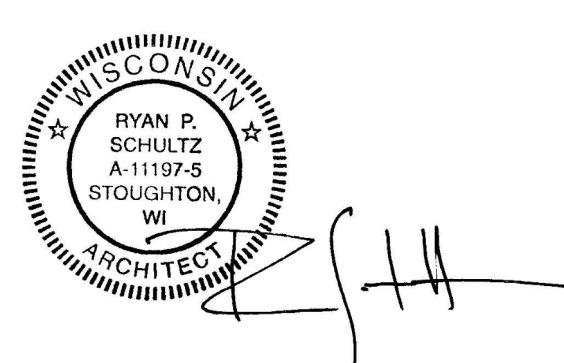
Date	Description
05.03.2017	Issue for Permit



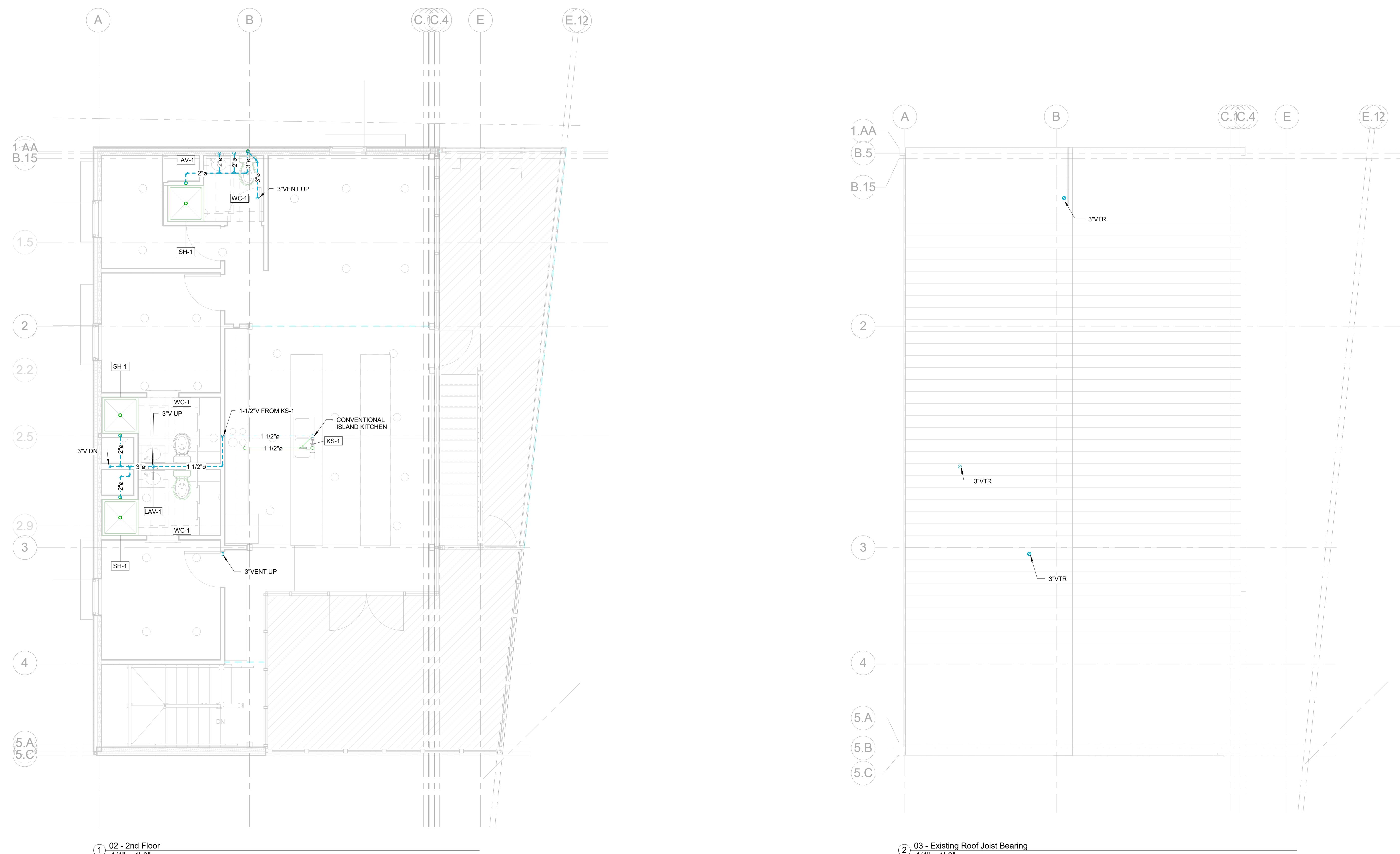
① 00 - Basement
1/4" = 1'-0"



② 01 - 1st Floor
1/4" = 1'-0"



Date	Description
05.03.2017	Issue for Permit



FYF LLC.

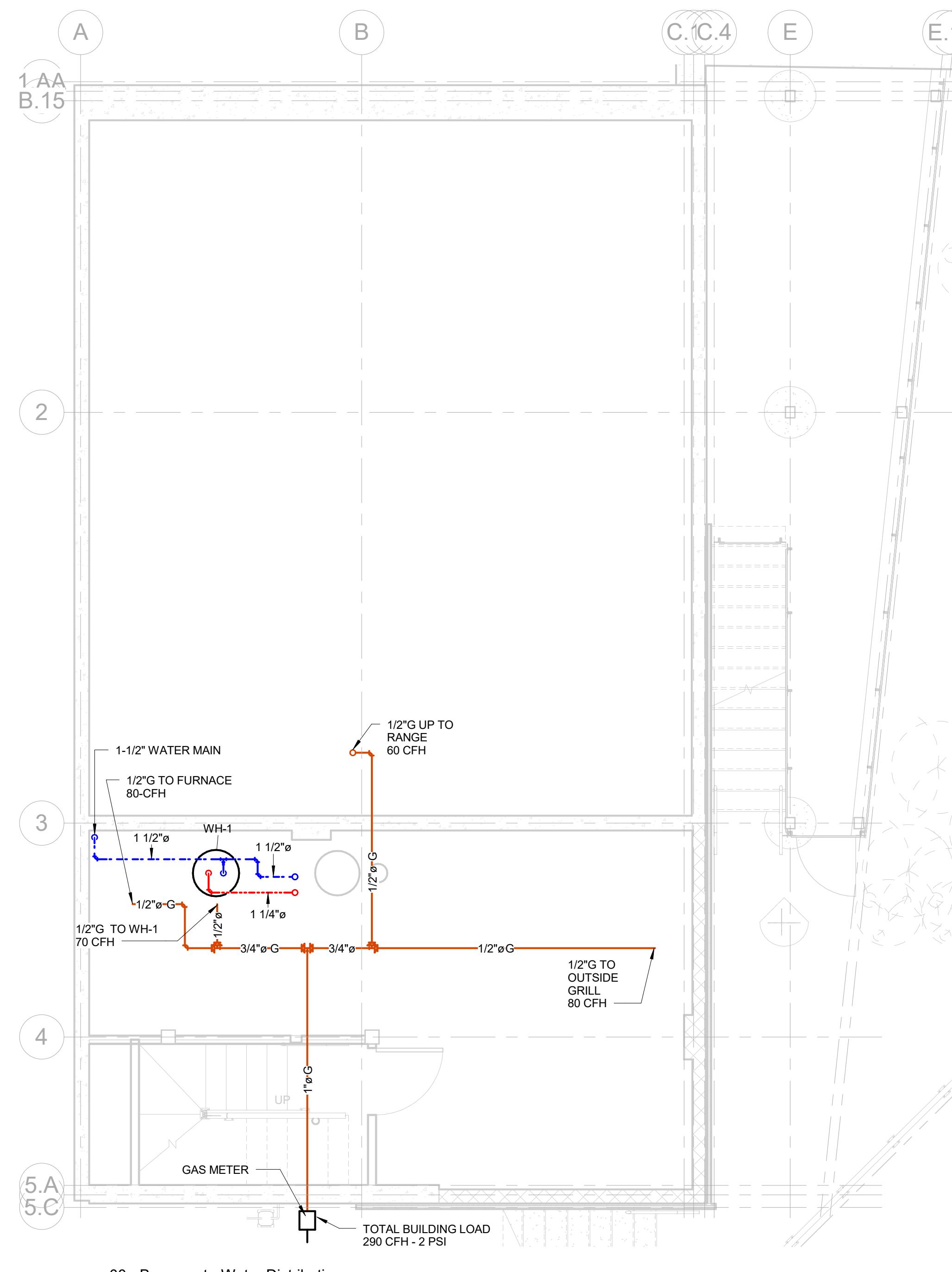
Owner: FYF LLC.
6 Water St E | Fort Atkinson, WI
ilovefunkys@hotmail.com

Zenteno Solutions

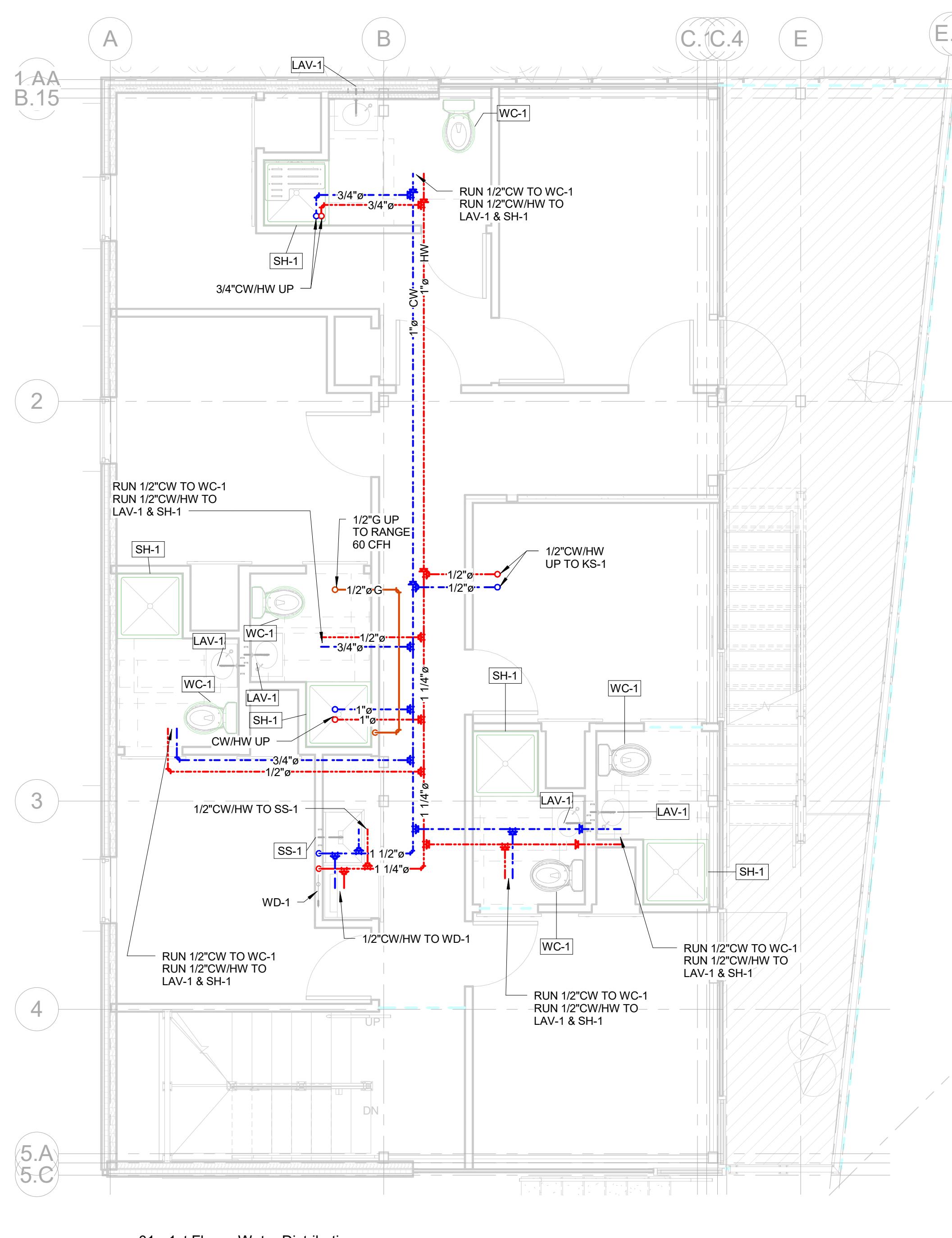
Plumbing Designer: Zenteno Solutions
1530 P B Lane # Z4646
WICHITA FALLS, TX, 76302
roberto@zenteno.net | 832.449.9278



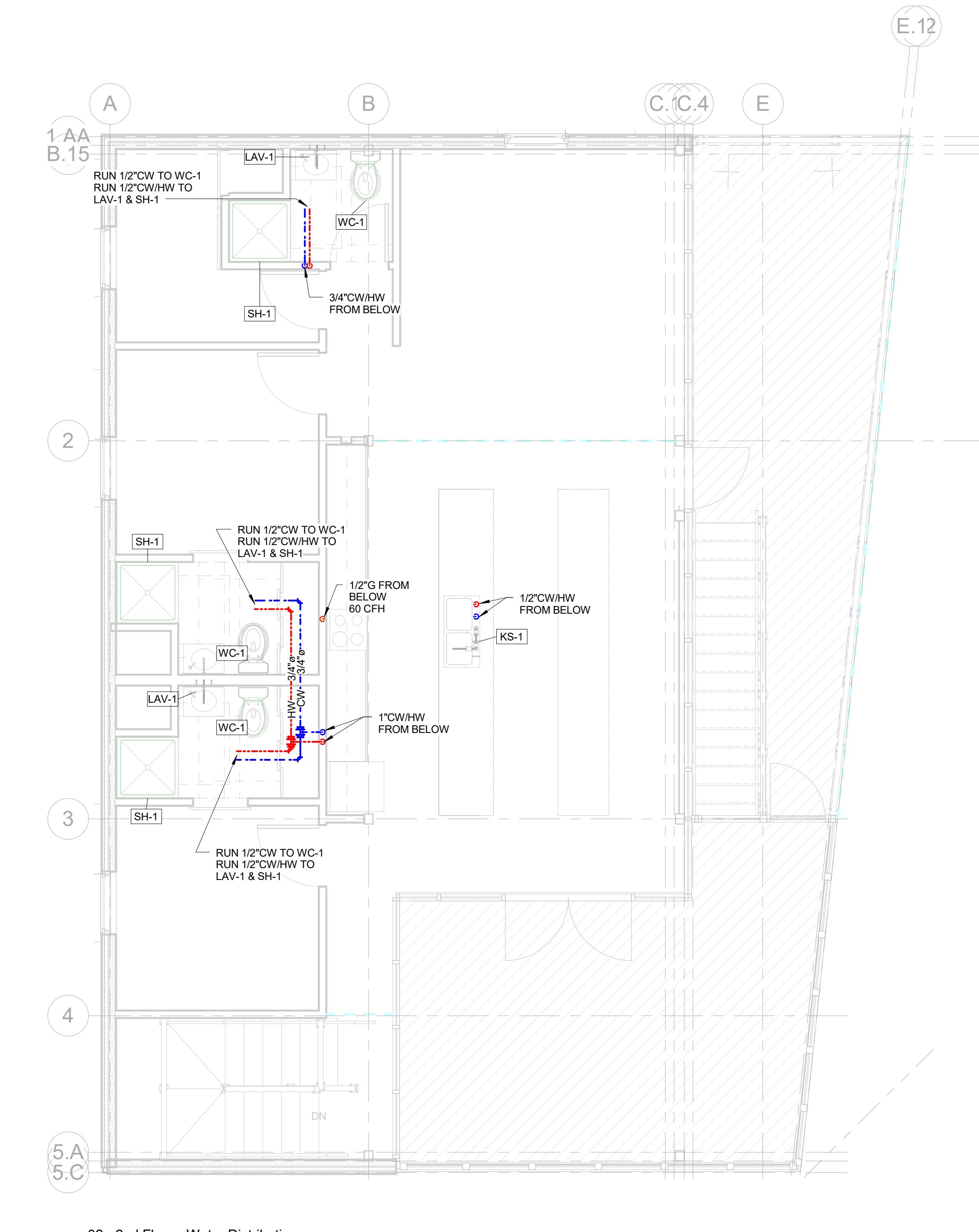
075-B, 10th main, HAL 2nd stage,
Bengaluru -08
HVAC Designer: Desapex
shreenidhi@desapex.com



1 00 - Basement - Water Distribution
1/4" = 1'-0"



2 01 - 1st Floor - Water Distribution
1/4" = 1'-0"



3 02 - 2nd Floor - Water Distribution
1/4" = 1'-0"

A circular seal for Wisconsin Architects. The outer ring contains the word "WISCONSIN" at the top and "ARCHITECT" at the bottom. Inside the circle, the name "RYAN P. SCHULTZ" is written above the identification number "A-11197-5". Below the number is the address "TOUGHTON," followed by "WI" and a small star. A diagonal line through the bottom right of the seal is crossed by a large, hand-drawn "X".



openingdesign

Architect: OpeningDesign
W. Lakeside St. | Madison, WI 53715
openingdesign.com | 773.425.6454

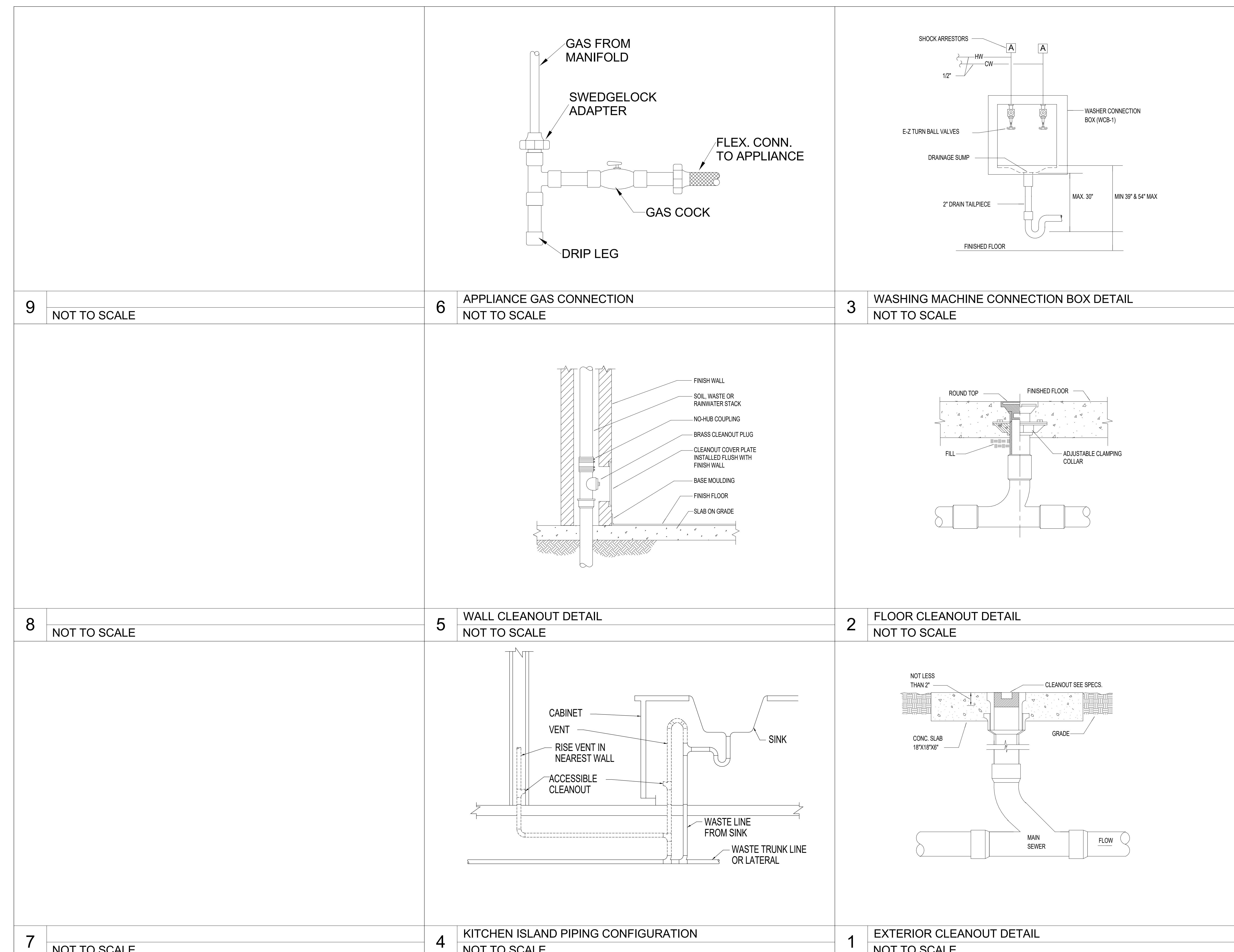
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Date	Description
05.03.2017	Issue for Permit
	A
	P1.03

5/3/2017 11:28:33 PM



Date	Description
05.03.2017	Issue for Permit



WATER CALCULATION WORKSHEET FOR: The Downtowner, Lake Geneva, WI, 53147

Date Designer

BUILDING INFORMATION

1. Demand of building in gallons per minute (65 SFU). 33 gpm
2. Size of the water meter. (Proposed size for hydraulic calcs, subject to Water Utility review.) 1.50 inch
3. Low pressure at building entrance. 35.0 psi

CALCULATE PRESSURE AVAILABLE AFTER BUILDING CONTROL VALVE

4. Low pressure at building entrance. 40.0 psi
5. Pressure loss due to water meter. 2.0 psi
6. Available pressure after building water meter. (Line 6 - 7a - 7b - 8) 38.0 psi

CALCULATE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")

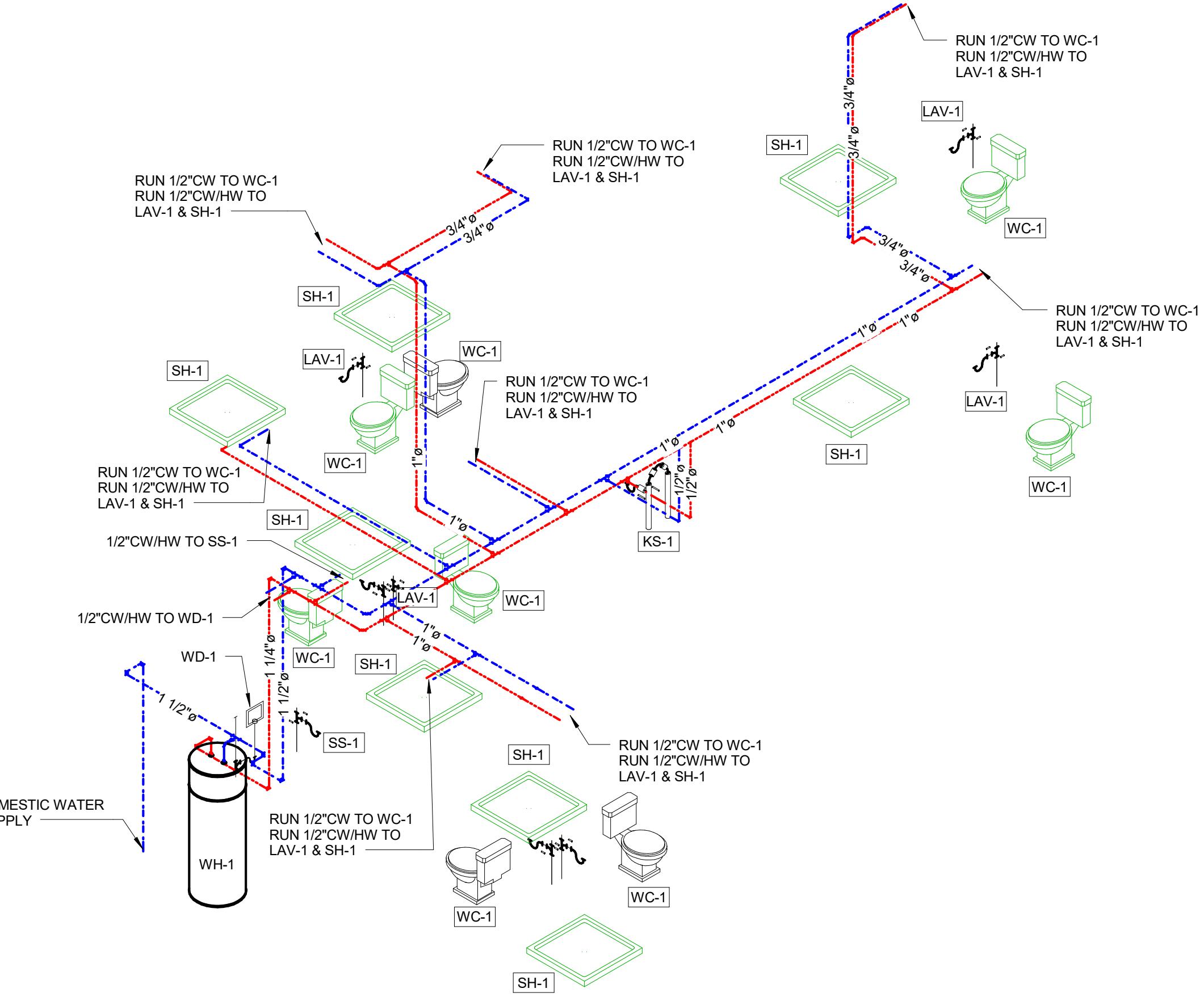
- B. Available distribution pressure. (Line 9 + B1 - B2) 38.0 psi
- D. Pressure required at controlling fixture. (Shower in second floor bathroom.) 20.0 psi
- E. Head loss from the building control valve to the controlling fixture.
(Elevation change, multiply by 0.434 psi/ft.)
- | | | |
|---------------------|--|--|
| Elevation change ft | 25 | 10.9 psi |
| Subtotal | | 18.0 psi |
- F. Pressure loss due to water treatment devices, instantaneous water heaters, backflow preventers, and other accessories which serve the controlling fixture.
N/A 0.0 psi
- G. Actual pipe length from building control valve to controlling fixture ft 80
Developed length. (Actual length, multiply by fitting/loss factor.) fitting/loss factor 1.5 120.0 feet
- Pressure available for uniform loss. (Total Available Pressure / Developed Length.) 0.060 psi/ft
- Pressure available for uniform loss per 100 ft. (Multiply by 100 / 100.) 6.0 psi/100 ft
- A. Pressure available for uniform loss per 100 ft. (Value rounded up to next integer.) "A" = 6.0 psi/100 ft

Building Information: Vacation Rental

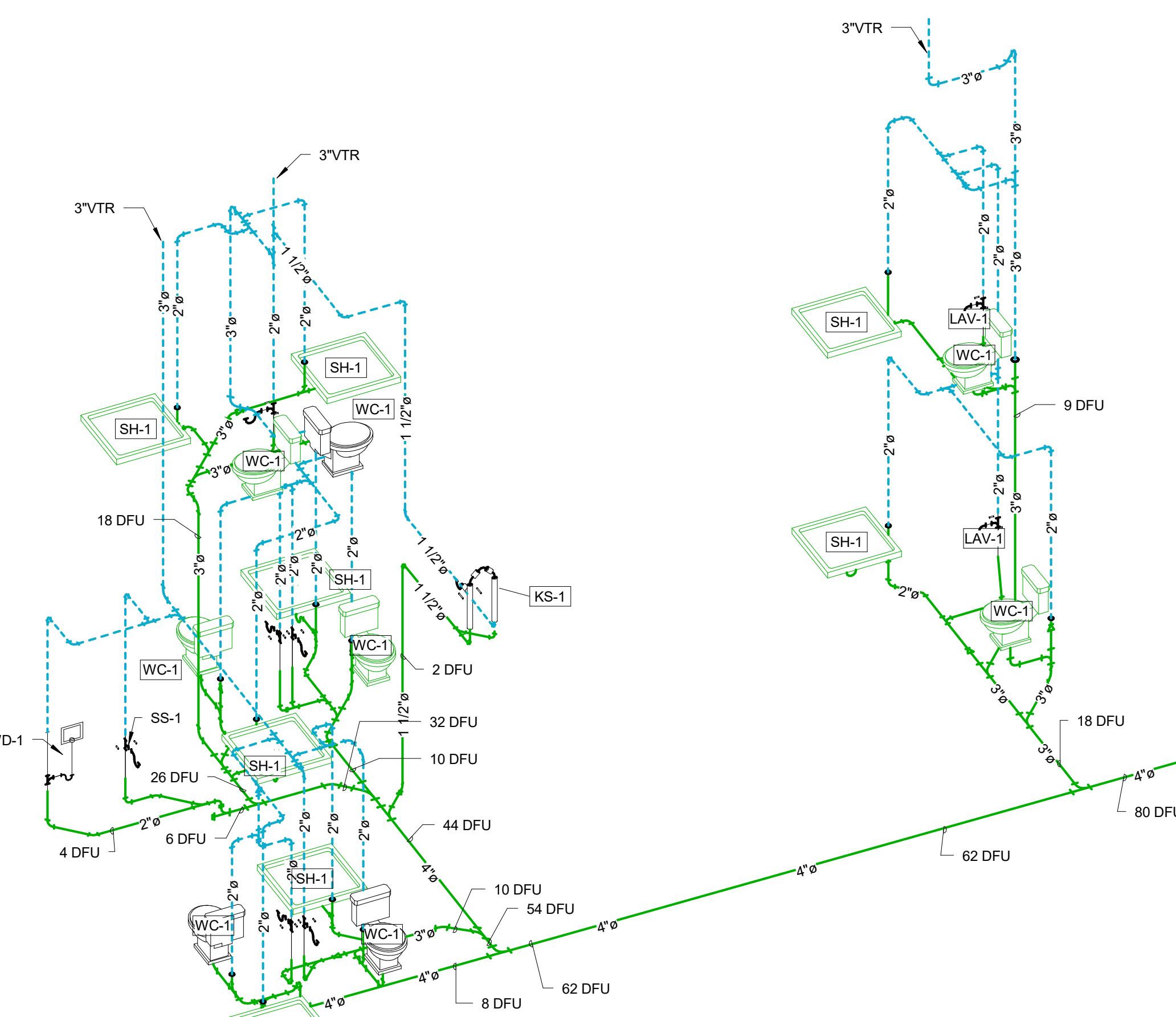
Drain fixture Unit Calculations

Fixture	DFU/Unit	# of Units	Total DFU
Shower	2	8	16
Lavatory	1	8	8
Water Closet	6	8	48
Washing Machine	4	1	4
Service Sink	2	1	2
Kitchen sink	2	1	2
Total DFU's			80

Item	Fixture	DRAINAGE		WATER	
		Waste	Vent	Hot	Cold
KS-1	KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
LAV-1	LAVATORY	2"	2"	1/2"	1/2"
SH-1	SHOWER	2"	2"	1/2"	1/2"
SS-1	SERVICE SINK	2"	2"	1/2"	1/2"
WC-1	WATER CLOSET	3"	2"	-	1/2"
WD-1	WASHER BOX	2"	2"	1/2"	1/2"



(2) WATER RISER DIAGRAM



(1) SANITARY RISER DIAGRAM

FYF LLC.

Owner: FYF LLC,
43 S Water St E | Fort Atkinson, WI
ilovefunkys@hotmail.comZenteno
SolutionsPlumbing Designer: Zenteno Solutions
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WICHITA FALLS, TX, 76302
roberto@zenteno.net | 832.449.9278#1075-B, 10th main, HAL 2nd stage,
Bengaluru -08
HVAC Designer: Desapex
shreenidhi@desapex.com

Architect: OpeningDesign
312 W. Lakeside St. | Madison, WI 53715
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