GENERAL NOTES

- A. ALL CONTRACTORS ARE RESPONSIBLE FOR PROVIDING COMPLETE INSTALLATION OF ALL COMPONENTS AND SHALL COORDINATE THEIR SCOPE OF WORK WITH ALL OTHER TRADES PRIOR TO SUBMITTING BIDS TO ENSURE THERE ARE NO MISSING OR DUPLICATE COMPONENTS WITH-IN THEIR SCOPE
- B. DO NOT SCALE DRAWINGS. USE INDICATED DIMENSIONS ONLY.
- C. SHOULD A CONTRACTOR FIND DISCREPANCIES OR AMBIGUITIES IN OR OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, OR BE IN DOUBT ABOUT THEIR MEANING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.
- D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB DURING CONSTRUCTION LAYOUT AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.
- E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS ON-SITE AND ADVISING ARCHITECT OF ANY DISCREPANCIES WITH DEMOLITION OR NEW WORK PLANS PRIOR TO PERFORMING ANY WORK.
- F. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY UNFORESEEN STRUCTURAL OR UTILITY RELATED ISSUES ARISE DURING DEMOLITION OR EXCAVATION.
- G. ALL SPECIFIED ITEMS SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS WRITTEN REQUIREMENTS

BUILDING CODE INFORMATION

BUILDING CODE
ENERGY CODE
PLUMBING CODE
MECHANICAL CODE
ELECTRICAL CODE
ACCESSIBILITY

2015 MICHIGAN BUILDING CODE 2015 MICHIGAN ENERGY CODE (ASHRAE 90.1-2013) 2015 MICHIGAN PLUMBING CODE 2015 MICHIGAN MECHANICAL CODE 2017 NATIONAL ELECTRIC CODE (NEC) ICC A117.1-2009

DESIGN CRITERIA

SEE STRUCTURAL DRAWINGS FOR STRUCTURAL DESIGN CRITERIA

PROJECT INFORMATION

OCCUPANCY	В	(MBC 302)
CONSTRUCTION TYPE	TYPE-VB	(MBC 602)
BUILDING ELEMENT FIRE RESISTANCE PRIMARY STRUCTURAL FRAME BEARING WALLS EXTERIOR BEARING WALLS INTERIOR NON BEARING INTERIOR WALLS FLOOR CONSTRUCTION ROOF CONSTRUCTION	o Hr o Hr o Hr o Hr o Hr o Hr	(MBC TABLE 601)
BUILDING EXTERIOR WALL RATING (DISTANCE BELOW FROM BUILDING TO PROPERTY LINE OR ADJACENT BUILDING) X < 5' 5 < x < 10' 10' < X < 30' X > 30'	1 HR 1 HR 0 HR 0 HR	(MBC TABLE 602)
ALLOWABLE BUILDING HEIGHT	40'	(MBC 504.3)
ACTUAL HEIGHT OF BUILDING	26'	
ALLOWABLE BUILDING AREA (PER STORY)	9,500 SF	(MBC 506.2)
ALLOWABLE AREA - TABULAR	27,000 SF	(MBC 503)
BUILDING AREA -FRONTAGE INCREASE BUILDING AREA - TOTAL	15,750 SF 47,250 SF	(MBC 506.2) (5-1 EQ)
ACTUAL AREA OF BUILDING	9,509 SF	
OCCUPANCY SEPARATIONS	N/A	(MBC TABLE508.4)
INCIDENTAL USES (FURNACE ROOM)	N/A	(MBC TABLE 509)
BUILDING SPRINKLERED	NO	(MBC 903)
OCCUPANT LOAD A3 - LIBRARY A3 - READING A3 - UNCONCENTRATED B - BUSINESS M - MECHANICAL TOTAL	30.72 41.16 122.26 6.71 <u>1.64</u> 202.49	(MBC 1004.2)
REQUIRED EXIT WIDTH AT STAIRS (OCC. LOAD x $0.3 = 0.00^{\circ}$) STAIR EGRESS	60.7"	(MBC 1005.3.1)
REQUIRED EXIT WIDTH (OCC. LOAD x $0.2 = 0.00$ ") EGRESS	40.4"	(MBC 1005.3.2)
MAX OCCUPANT LOAD WITH (1) EXIT (49 MAX)	49	(MBC 1006.2.1)
MIN. NUMBER OF EXITS REQUIRED	2	(MBC 1006.3.1)
EXIT TRAVEL DISTANCE (NON-SPRINKLERED)	75′	(MBC 1006.2.1)
ACCESSIBLE ENTRANCE	1	(MBC CH 11)

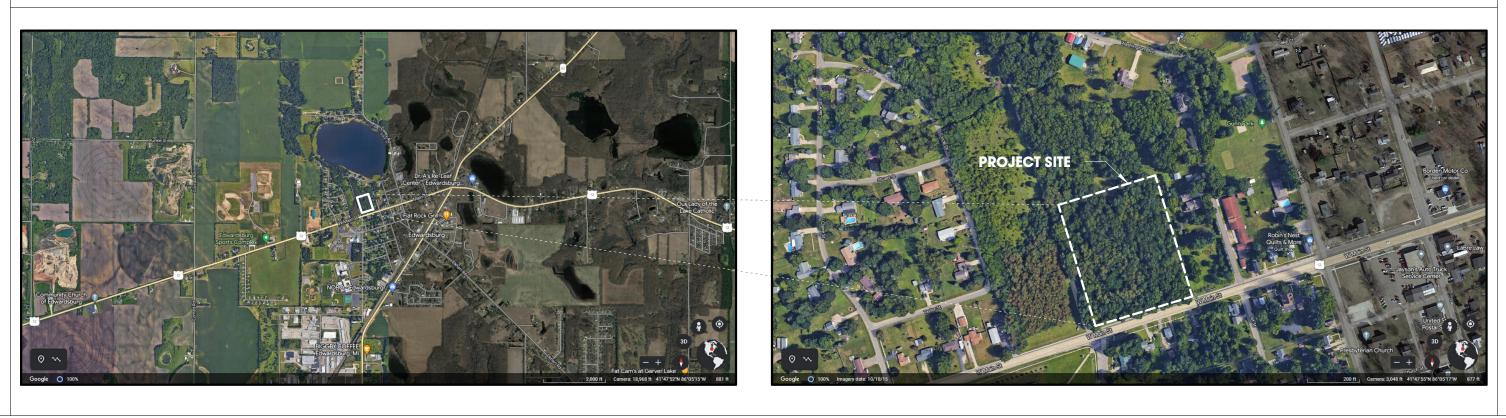
THERMAL ASHRAF 90.1-2013

ASHRAE 90.1-2013 TABLE 5.5-5 CLIMATE ZONE 5 FOR COMMERCIAL PROJECTS (DESCRIBE EACH SYSTEM)	
ROOF (INSULATION ABOVE DECK) REQUIRED	R-30
Exterior Walls (Steel Framed) Required	R-13 + 4.2
Foundation insulation (Walls B Required	elow grade R-7.5
opaque doors U-factor (swinging) U-factor (non-swing)	0.50 (MAX)
FENESTRATION (FIXED METAL FRAM U-FACTOR SHGC	ING) 0.42 (MAX) 0.40 (MAX)

PERSPECTIVE VIEW



LOCATION MAP



PROJECT TEAM

ABONMARCHE

ARCHITECTURAL / CIVIL / STRUCTURAL / INTERIOR DESIGN/ MECHANICAL / ELECTRICAL / PLUMBING ABONMARCHE CONSULTANTS, INC 315 W. Jefferson BLVD South Bend, IN 46601

NEW CONSTRUCTION FOR: CASS DISTRICT LIBRARY EDWARDSBURG, MI

PROJECT ADDRESS

26977 W. MAIN STREET, EDWARDSBURG, MI

SHEET INDEX

TITLE SHEETS

ті.1	TITLE SHEET
ті.2	REFERENCE SHEET
ті.3	LIFE SAFETY PLAN
C1.0	SITE - EXISTING CONDITIONS & DEMOLITION PLAN
C2.0	SITE DEVELOPMENT PLAN
C2.1	SITE PLAN LAYOUT DETAILS
C3.0	OVERALL GRADING PLAN

C3.1	DETAILED GRADING PLAN
C5.0	UTILITIES PLAN
C6.0	LANDSCAPE PLAN
C6.1	LANDSCAPE PLAN
C7.0	CONSTRUCTION DETAILS
C7.1	CONSTRUCTION DETAILS
C8.0	SOIL EROSION AND SEDIMENTATION CONTROL PLAN
C8.1	SOIL EROSION AND SEDIMENTATION CONTROL PLAN

C8.3	SOIL EROSION AND SEDIMENTATION CONTROL PLAN	
C8.2	SOIL EROSION AND SEDIMENTATION CONTROL PLAN	
C0.1	SOIL EROSION AND SEDIMENTATION CONTROL PLAN	

STRUCTURAL DRAWINGS

STRUCTURAL SPECIFICATIONS SO.1 S1.0 FOUNDATION PLAN PARTIAL FRAMING PLANS S1.1 S1.2 ROOF FRAMING PLAN S2.1 FOUNDATION DETAILS S2.2 FOUNDATION DETAILS S2.3 FOUNDATION DETAILS S3.1 STRUCTURAL DETAILS S3.2 STRUCTURAL DETAILS S3.3 STRUCTURAL DETAILS S4.1 STEEL FRAME ELEVATIONS S4.2 STEEL FRAME ELEVATIONS S5.1 TRUSS PROFILES

ARCHITECTURAL DRAWINGS

A0.1	ARCHITECTURAL SITE PLAN
A1.1	FIRST FLOOR PLAN
A1.2	MEZZANINE FLOOR PLAN
A2.1	FIRST FLOOR - REFLECTED CEILING PLAN
A2.2	ROOF PLAN
A2.3	ROOF DETAILS
A3.1	EXTERIOR ELEVATIONS
A3.2	EXTERIOR ELEVATIONS
A4.1	BUILDING SECTIONS
A4.2	BUILDING SECTIONS
A5.1	WALL SECTIONS
A5.2	WALL SECTIONS
A5.3	WALL SECTIONS
A5.4	WALL SECTIONS
A6.0	ENLARGED FLOOR PLANS AND ELEVATIONS
A6.1	ENLARGED FLOOR PLANS AND ELEVATIONS
A6.2	ENLARGED FLOOR PLANS AND ELEVATIONS
A6.3	ENLARGED FLOOR PLANS AND ELEVATIONS
A6.4	ENLARGED FLOOR PLANS AND ELEVATIONS
A6.5	ENLARGED FLOOR PLANS AND ELEVATIONS
A6.6	ENLARGED STAIR PLAN AND ELEVATIONS
A7.1	PLAN DETAILS
A7.2	ENLARGED PLANS & SECTIONS @ ROOF "D"
A7.3	SECTION DETAILS
A7.4	DETAILS
A7.5	SITE DETAILS
A8.1	ROOM FINISH SCHEDULE AND LEGEND
A8.2	DOOR SCHEDULES
A8.3	STOREFRONT ELEVATIONS

- STOREFRONT ELEVATIONS A8.4
- FURNITURE PLAN A9.1

ALTERNATES

NOTE: THIS SUMMARY PROVIDED FOR REFERENCE ONLY. REFER TO THE SPECIFICATIONS FOR COMPLETE ALTERNATE INFORMATION.						
<u>ALT #1</u> -		PROVIDE 100% PERFORMANCE AND PAYMENT BOND. DELETE PERFORMANCE AND PAYMENT BOND.				
	ALTERNATE: BASE BID:	 PROVIDE ADA ACCESSIBLE, CRUSHED LIMESTONE PATHS THROUGH WOODS AS SHOWN IN CO DELETE LIMESTONE PATHS AND ALL RELATED ITEMS FROM BASE BID. PROVIDE LIGHT FIXTURES ALONG LIMESTONE PATH - REFER TO ELECT. DWGS. DELETE LIGHT FIXTURES ALONG LIMESTONE PATH. 	ONST. D\	NGS.		
	ALTERNATE:	PROVIDE ADA ACCESSIBLE PATIOS ON NORTH SIDE OF BUILDING AS SHOWN IN CONST. DWG IN LIEU OF PATIOS ON NORTH SIDE OF BUILDING, PROVIDE CONCRETE STOOPS PER DETAIL 4 STOOPS SHALL BE 5FT x 5FT AT DOORS 113-B AND 113-C, AND 10FT x 10FT AT DOOR 103-A PROVIDE LIGHT FIXTURES AT PATIOS - REFER TO ELECT. DWGS.	ON SHE			
<u>ALT #4</u> -	BASE BID:	 DELETE LIGHT FIXTURES ALONG LIMESTONE PATH. PROVIDE ADA ACCESSIBLE PERGOLA AS SHOWN ON CONST. DWGS. REFER TO SHEET A7.5. DELETE PERGOLA AND ALL RELATED ITEMS. 				
<u>ALT #5</u> -		PROVIDE PARKING AS SHOWN ON CONSTRUCTION DRAWINGS. REFER TO CIVIL DRAWINGS A IN LIEU OF BASE BID, REDUCE PARKING AS SHOWN ON REVISED CIVIL DRAWINGS.	and spe	CS.		
<u>ALT #6</u> -	-	PROVIDE MTL DECK & 6" POLY ISO INSULATION AT ROOF "A" & ROOF "C" WITH T1-11ARCHITEC IN LIEN OF BASE BID, PROVIDE 8" SIPS WITH ARCHITECTURAL EXPOSED INTERIOR WOOD FINISH		WOOD CLG.		
<u>ALT #7</u> -		PROVIDE FENCE AT NORTH PROPERTY LINE AS SPECIFIED AS SHOWN ON THE DRAWINGS. PROVIDE ADDITIONAL FENCE ALONG EAST PROPERTY LINE AS SHOWN ON CIVIL DRAWINGS. MATCH SPECIFIED FENCE AT THE NORTH PROPERTY LINE.	FENCE S	SHALL		
<u>ALT #8 -</u>		ONE-YEAR CONSTRACTOR'S WARRANTY TWO-YEAR CONTRACTOR'S WARRANTY				
		NO. REVISION DESCRIPTION	BY	DATE		

PLUMBING DRAWINGS

P3.0 UNDERGROUND PLUMBING PLAN

FIRST FLOOR PLUMBING PLAN P3.1 P3.2 Mezzanine plumbing plan

MECHANICAL DRAWINGS

- M0.1 MECHANICAL SCHEDULES
- MEZZANINE HYDRONIC PIPING PLAN M4.2 FIRST FLOOR HVAC PLAN
 - MEZZANINE HVAC PLAN

M5.1

M5.2

M6.0

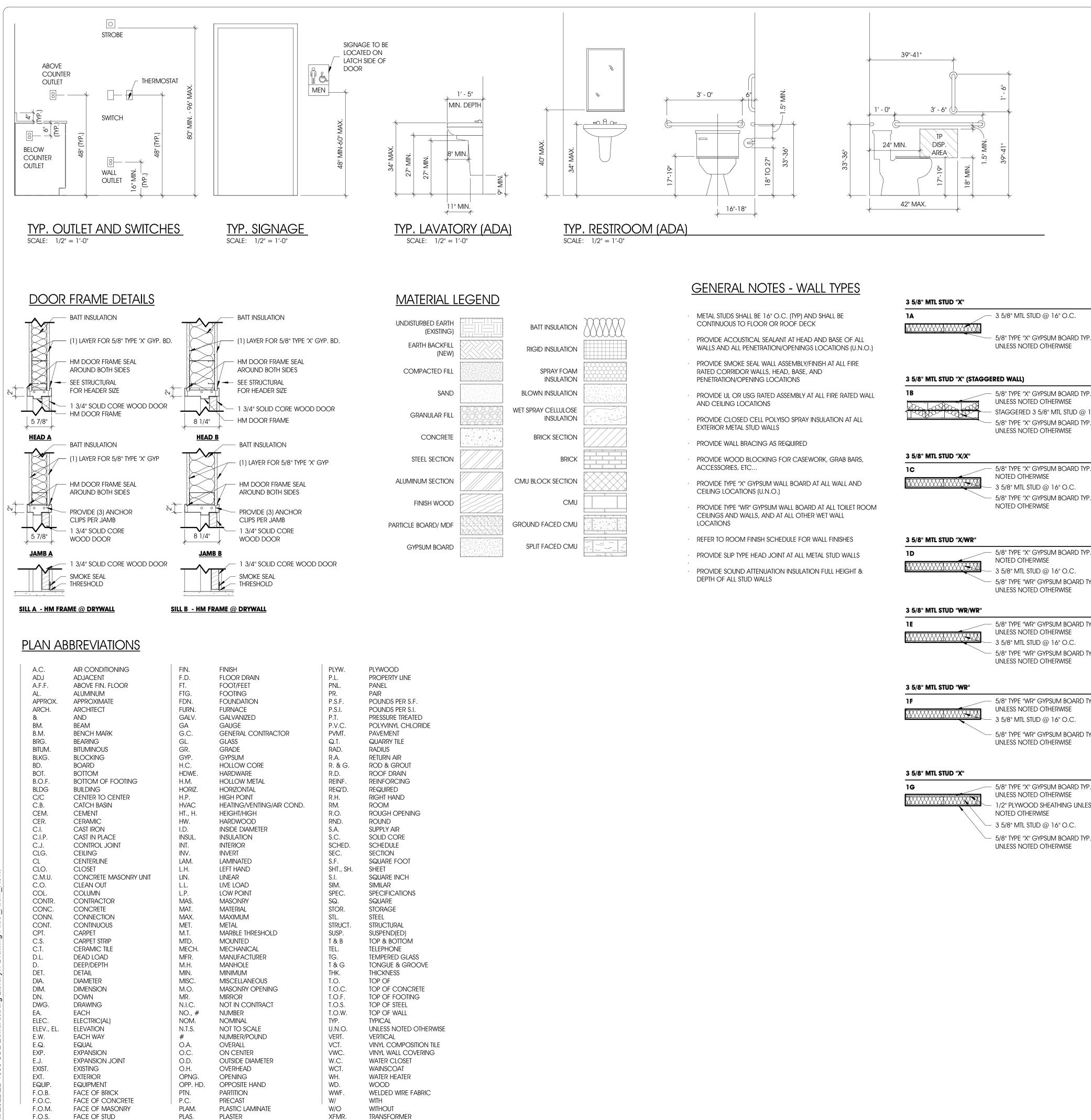
M8.0

MECHANICAL ROOF PLAN MECHANICAL DETAILS

ELECTRICAL DRAWINGS

- EO.1 ELECTRICAL COVER E2.1 FIRST FLOOR LIGHTING PLAN
- E2.2 Mezzanine lighting plan
- FIRST FLOOR POWER & SYSTEMS PLAN E3.1
- MEZZANINE POWER & SYSTEMS PLAN E3.2
- PANEL SCHEDULES, ONELINE DIAGRAMS, & DETAILS E8.0 EC1.0 ELECTRICAL SITE PLAN

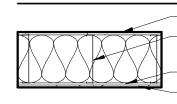
Ш ONMARC AB DN BL 4660 315 W South **T** 574.2 **F** 574.2 • • FOR Т ARY NCI TR SR \mathbf{O} 8 2 $\mathbf{\omega}$ 6 S DISTRI RDSBUI 7 W. M. 2 ŇΩ ш iш ш Т S ш MODELED BY: MHK, JCA, AND **DESIGNED BY:** ARD PM REVIEW: ARD, MDN QA/QC REVIEW: MDN DATE: 12/20/2023 ARVIN R DELACRUZ ARCHITECT IGNATURE DATE: 12/20/2023 HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AND **GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER** SIZES SCALE: UNLESS NOTED OTHERWISE ACI JOB # 22-1836 SHEET NO. T1.1



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3 5/8" MTL STUD "X'		5 1/2" WD STUD "X/	WR
1A	3 5/8" MTL STUD @ 16" O.C. 5/8" TYPE "X" GYPSUM BOARD TYP. UNLESS NOTED OTHERWISE	2A	5/8" TYPE "X" GYPSUM BOARD TYP. UNLES NOTED OTHERWISE 5 1/2" WD STUD @ 16" O.C. 5/8" TYPE "WR" GYPSUM BOARD TYP. UNLESS NOTED OTHERWISE
3 5/8" MTL STUD "X'	" (STAGGERED WALL)	6" MTL STUD "X"	
	5/8" TYPE "X" GYPSUM BOARD TYP. UNLESS NOTED OTHERWISE STAGGERED 3 5/8" MTL STUD @ 16" O.C. 5/8" TYPE "X" GYPSUM BOARD TYP. UNLESS NOTED OTHERWISE	3A	5/8" TYPE "X" GYPSUM BOARD TYP. UNLES NOTED OTHERWISE 6" MTL STUD @ 16" O.C.
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		6" MTL STUD "X/X" (1 HR - U419)
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3 5/8" MTL STUD "W	'R"	6" MTL STUD "X/WR'	n
1F	5/8" TYPE "WR" GYPSUM BOARD TYP. UNLESS NOTED OTHERWISE 3 5/8" MTL STUD @ 16" O.C. 5/8" TYPE "WR" GYPSUM BOARD TYP. UNLESS NOTED OTHERWISE	3E	5/8" TYPE "WR" GYPSUM BOARD TYP. UNLESS NOTED OTHERWISE 1/2" PLYWOOD SHEATHING UNLESS NOTED OTHERWISE 6" MTL STUD @ 16" O.C. 5/8" TYPE "X GYPSUM BOARD TYP. UNLESS
3 5/8" MTL STUD "X'	n	8" MTL STUD "X/X"	NOTED OTHERWISE
1G	5/8" TYPE "X" GYPSUM BOARD TYP. UNLESS NOTED OTHERWISE 1/2" PLYWOOD SHEATHING UNLESS NOTED OTHERWISE	4 A	5/8" TYPE "X" GYPSUM BOARD TYP. UNLES NOTED OTHERWISE 8" MTL STUD @ 16" O.C. 5/8" TYPE "X" GYPSUM BOARD TYP. UNLES

<u>CEILING TYPES</u> C1 (1 HR)

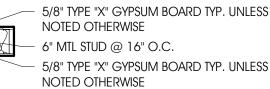


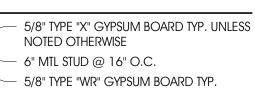
- 12" STEEL JOISTS

- 3/4" STRUCTO-CRETE USG SP

1/2" RESILIENT CHANNEL - 5/8" TYPE "X" GYPSUM BOARD









YPE "X" GYPSUM BOARD TYP. UNLESS d otherwise "L STUD @ 16" O.C. - 5/8" TYPE "X" GYPSUM BOARD TYP. UNLESS NOTED OTHERWISE

MODELED BY: MHK, JCA, AND **DESIGNED BY:** ARD PM REVIEW: ARD, MDN QA/QC REVIEW: MDN

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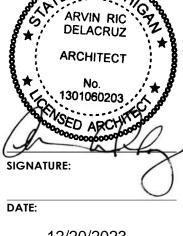
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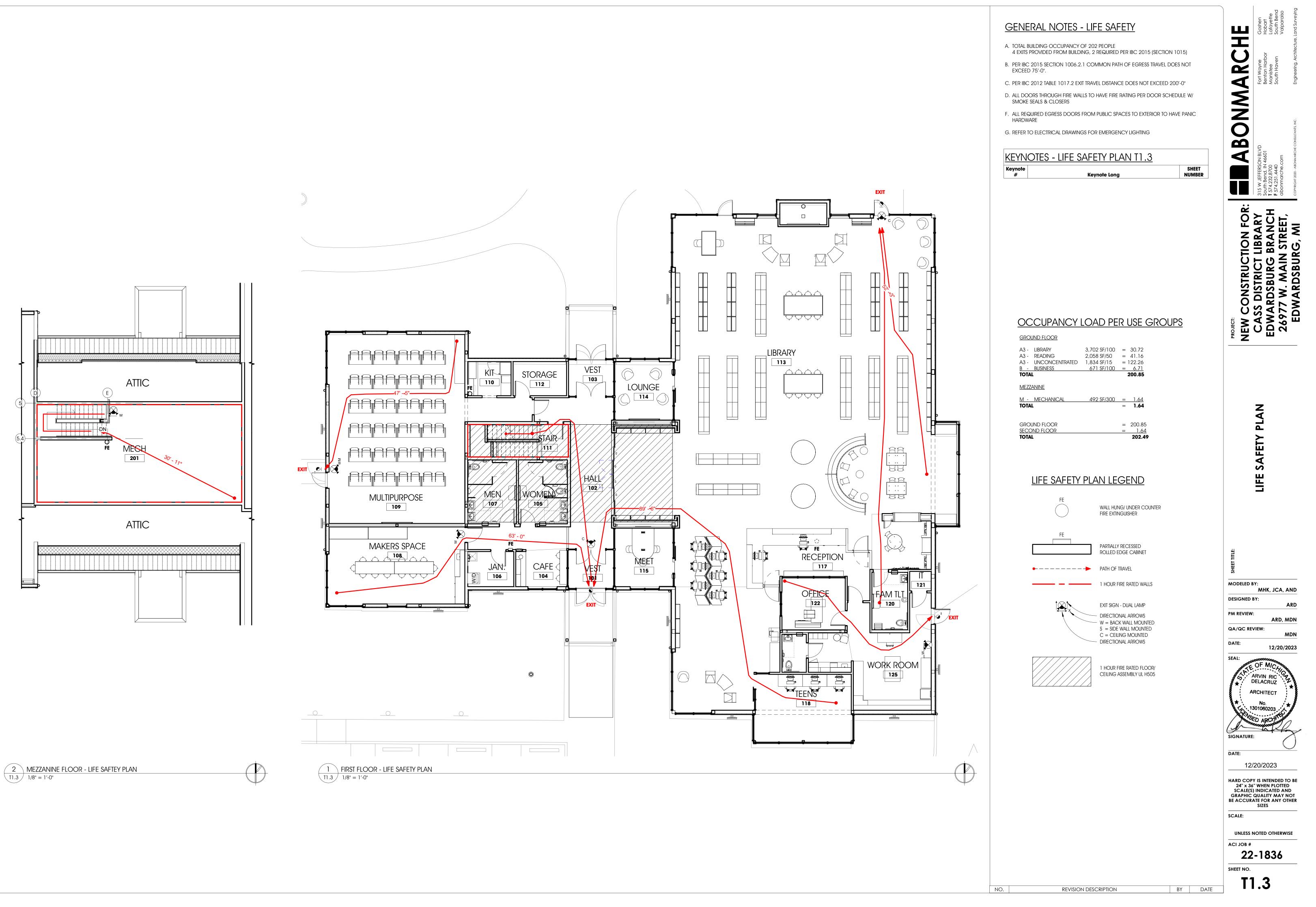
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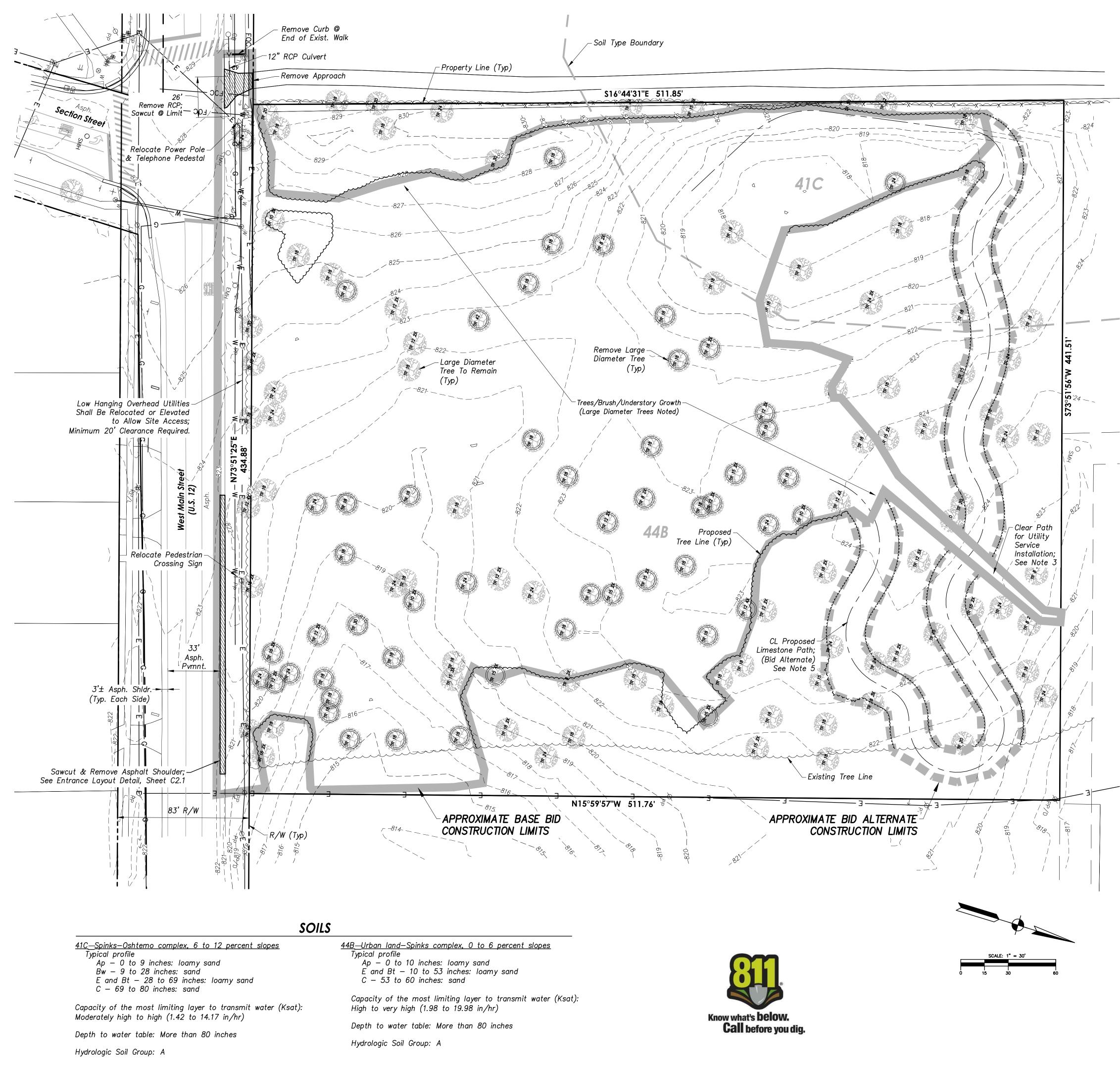




NO.







EXISTING FEATURES LEGEND

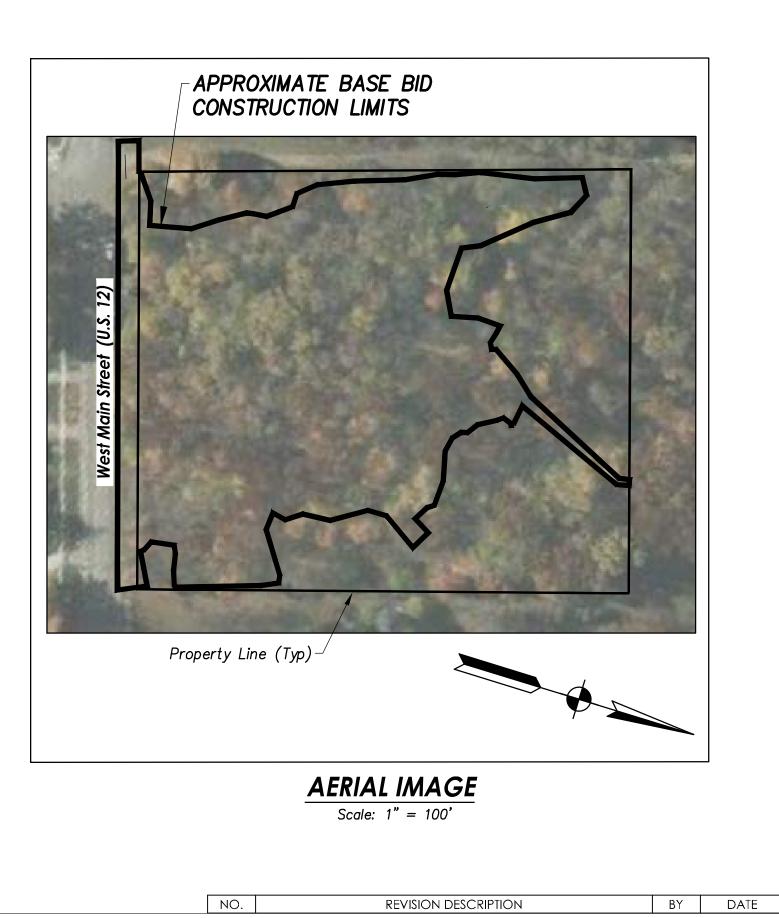
\bigtriangleup T	Telephone Pedestal	Ø	Fire Hydrant
⊖ SMH	Sanitary Sewer Manhole	— w —	Water Main
⊖ ЕМН	Electric Manhole	>>	Sanitary Sewer
𝒫 PP	Power Pole	>	Storm Culvert
Ø TLP	Traffic Strain Pole	G	Gas Main
Ø PP/D	Power Pole w/Drop	—— FOC ——	Fiber Optic Marker
Ø PP/L	Power Pole w/Light	—— ОН ——	Overhead Electric
\rightarrow	Guy Anchor	X	Fence
STE	Large Diameter Tree		Tree Line
N. S.	5	FIP	Found Iron Pipe
		FIR	Found Iron Rod

GENERAL NOTES

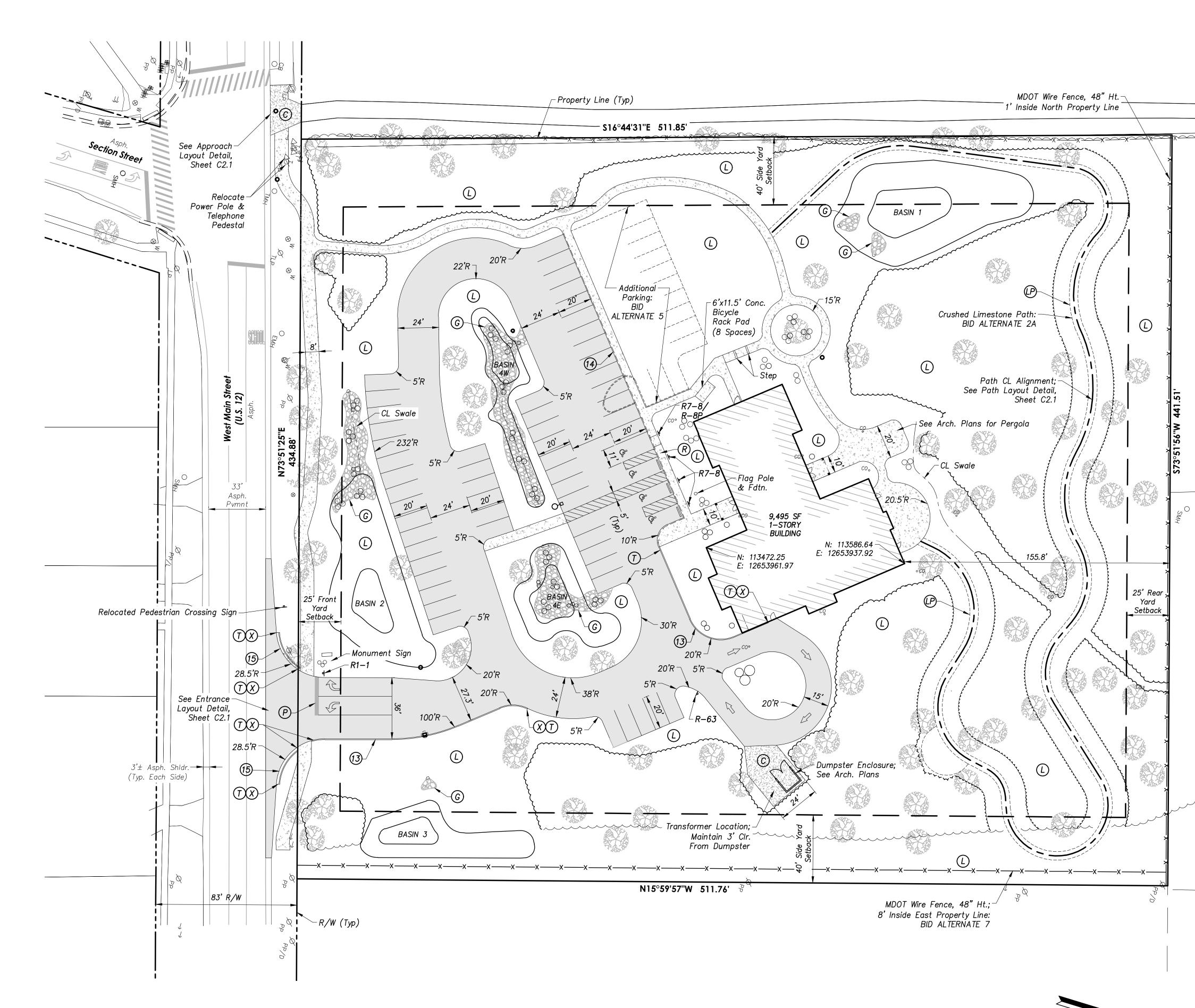
- 1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING THE BID.
- 2. Contractor shall request existing utility location prior to commencing construction.
- 3. Contractor shall notify the jurisdictional municipality Engineering Department prior to commencing construction in the R/W.
- 4. Contractor is responsible for contacting & coordinating with Others as needed to complete the Work and is responsible for including any associated costs of the Work in the Bid.
- 6. Contractor shall remove topsoil and stockpile the material onsite at a location approved by the Owner.
- 7. Contractor shall identify any underground utilities, structures, buried debris, etc. not visible from topographic survey. Contact Engineer for determination of removal.
- 8. Removed items shall be disposed off-site in accordance with all applicable local, state and federal codes.

DEMOLITION NOTES

- 1. Remove large diameter trees as noted. Protect and save remaining large diameter trees as specified on the Soil Erosion Control and Sedimentation Control Plan, C8.0.
- 2. Clear all underbrush, small trees and large diameter trees slated for removal within construction limits.
- 3. See Sheet C5.0 for on-site water service and sewer service alignments. Confirm final alignments with Engineer prior to clearing.
- 4. Clear area for proposed limestone path. See Sheet C2.1 for path alignment.
- 5. Contractor shall remove understory growth (less than 18" in diameter) within the construction limits and that is impacted by construction.



E ABONMARCHE	J. J.	dbommarche.com Valparaiso correction Valparaiso correcting, Architecture, Land Surveying correcting, Architecture, Land Surveying
PROJECT: NEW CONSTRUCTION FOR:	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH	
	EXISTING CONDITIONS & DEMOLITION PLAN	
SIGNATURE DATE: 12/2 HARD COPY 24" x 36 SCALE(S) GRAPHIC BE ACCURA SCALE: UNLESS M ACI JOB # 222 SHEET NO.	3Y:	23 ED TO BE DAND AY NOT Y OTHER ERWISE



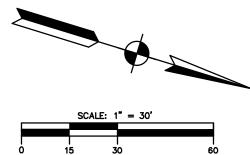
GENERAL NOTES

- 1. Existing Land Use: Vacant Proposed Land Use: Library
- 2. Building setbacks are in accordance with the requirements of the Service Commercial District zoning ordinance.
- 3. The site will be serviced by municipal sewer and water.
- 4. Drainage will be collected on-site and managed by the Owner.
- 5. Parking areas will be paved and privately owned.
- 6. The site shall conform to area, height and development regulations of the Commercial zoning district unless proper variances are granted.

TABULATED SITE DATA

<u>PROPOSED LAND USE</u> Building	<u>AREA (SFT)</u> 9,495	<u>COVERAGE</u> 4.2%
Pavement	47,625	21.2%
<u>Open Area</u>	167,145	74.6 <u>%</u>
TOTAL	224,265	100.0%





EXISTING FEATURES LEGEND

\bigtriangleup T	Telephone Pedestal	Ø	Fire Hydrant
⊖ SMH	Sanitary Sewer Manhole	— w —	Water Main
⊖ ЕМН	Electric Manhole	>>	Sanitary Sewer
𝒫 PP	Power Pole	>	Storm Culvert
otin TLP	Traffic Strain Pole	G	Gas Main
Ø PP/D	Power Pole w/Drop	—— FOC ——	Fiber Optic Marker
Ø PP/L	Power Pole w/Light	OH	Overhead Electric
\rightarrow	Guy Anchor	X	Fence
	Large Diameter Tree To Remain		Tree Line

PROPOSED FEATURES LEGEND

	Full Depth HMA Pavement: 1–1/2" HMA Surface	R1—1	"STOP" Sign & Post
	2—1/2" HMA Intermediate 6" Compacted Aggregate Base on Compacted Subgrade	R7-8	"RESERVED PARKING" (ADA Accessible) Sign & Post
0	8" Concrete Pad	R7-8P	"VAN ACCESSIBLE" Sign
	4" Concrete Sidewalk; 5' Wide, U.N.O.	R-63	"ONE WAY DO NOT ENTER" Sign & Post
		Ó	Drainage Structure
<u>6</u>	4"—6" Glacial Cobble Stone over Non—Woven Geotextile;	D	Pipe End Section
	6" Cobble @ Pipe End Sections In Accordance w/"Stone Apron &	CO o	Clean—Out
~	Pipe End Section Detail," Sheet C8.1	ÔNLY	Pavement Marking Message
(13)	Standard Concrete Curb		"ONLY"
(14)	Curb Integral w/Sidewalk	S	Pavement Marking Graphic: Turn Arrow
(15)	Concrete Combined Curb & Gutter	ራ	Pavement Marking Graphic:
	Landscape Area	Ū.	ADA Accessibility Symbol
P	Stop Bar Pavement Marking, 24" Solid Line, White		
R	Curb Ramp		
\overline{I}	Taper Curb From Full Ht. To 0' in 2'		KING SPACE NOTES
\bigotimes	Terminate Curb/Curb & Gutter	 All parking spaces 9'-0" wide unless noted otherwise. 	
·····	Tree Line		avement markings to be 4" solid t lines, color as noted:
\bigcirc -		pairie	

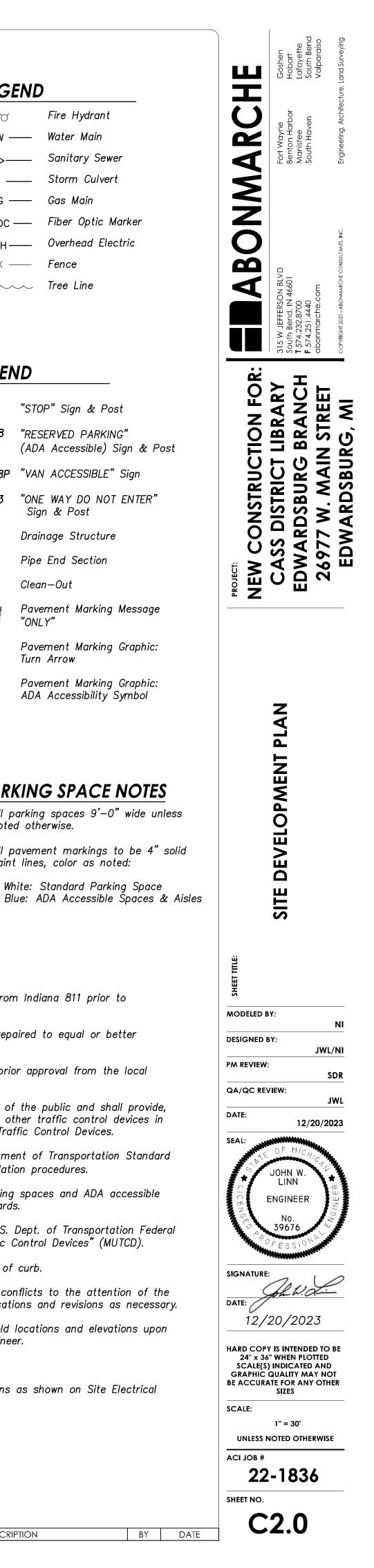
- Boulder Group, See Landscape Plan
- Parking Bumper (@ ADA Space)

SITE PLAN CONSTRUCTION NOTES

- 1. Contractor shall request existing utility location from Indiana 811 prior to commencing construction.
- 2. Damage to public and private property shall be repaired to equal or better condition at no additional cost to the Owner.

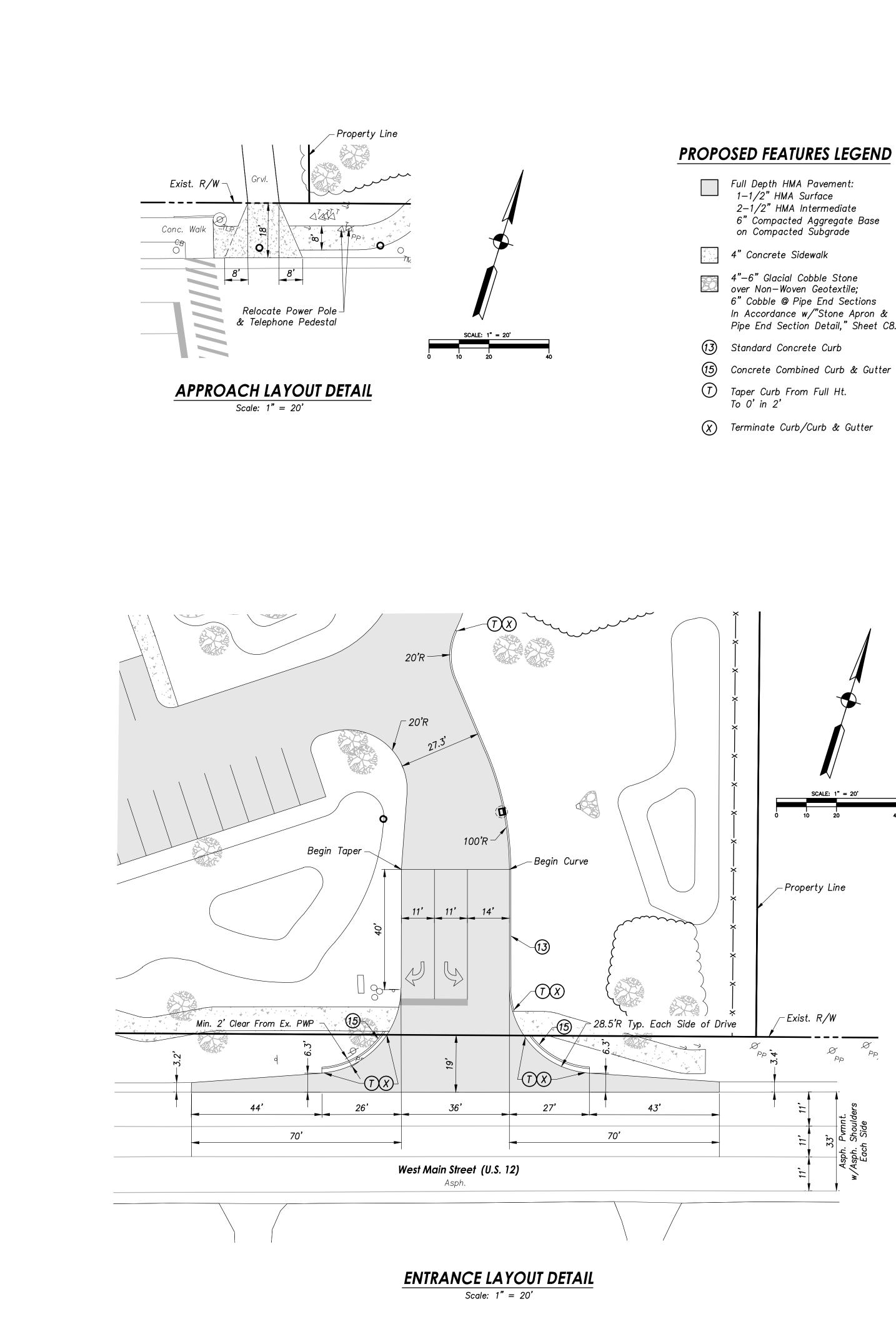
White: Standard Parking Space

- 3. No streets shall be closed or restricted without prior approval from the local municipality.
- 4. Contractor shall protect the work and the safety of the public and shall provide, erect and maintain barricades, signals, signs and other traffic control devices in accordance with the Indiana Manual on Uniform Traffic Control Devices.
- 5. Contractor shall follow the latest Michigan Department of Transportation Standard Specifications" for pavement materials and installation procedures.
- 6. Contractor shall construct sidewalks, ramps, parking spaces and ADA accessible areas in accordance with the current ADA standards.
- 7. Traffic sign designations shall comply with the U.S. Dept. of Transportation Federal Highway Administration "Manual on Uniform Traffic Control Devices" (MUTCD).
- 8. Curb radii noted are dimensioned along the face of curb.
- 9. Contractor shall bring Drawing discrepancies and conflicts to the attention of the Engineer as soon as they are noticed, for clarifications and revisions as necessary.
- 10. Contractor shall prepare Record Drawings with field locations and elevations upon completion of the work for submittal to the Engineer.
- 11. Owner to select bicycle rack style.
- 12. Site contractor shall coordinate light pole locations as shown on Site Electrical plan, Sheet EC.1.



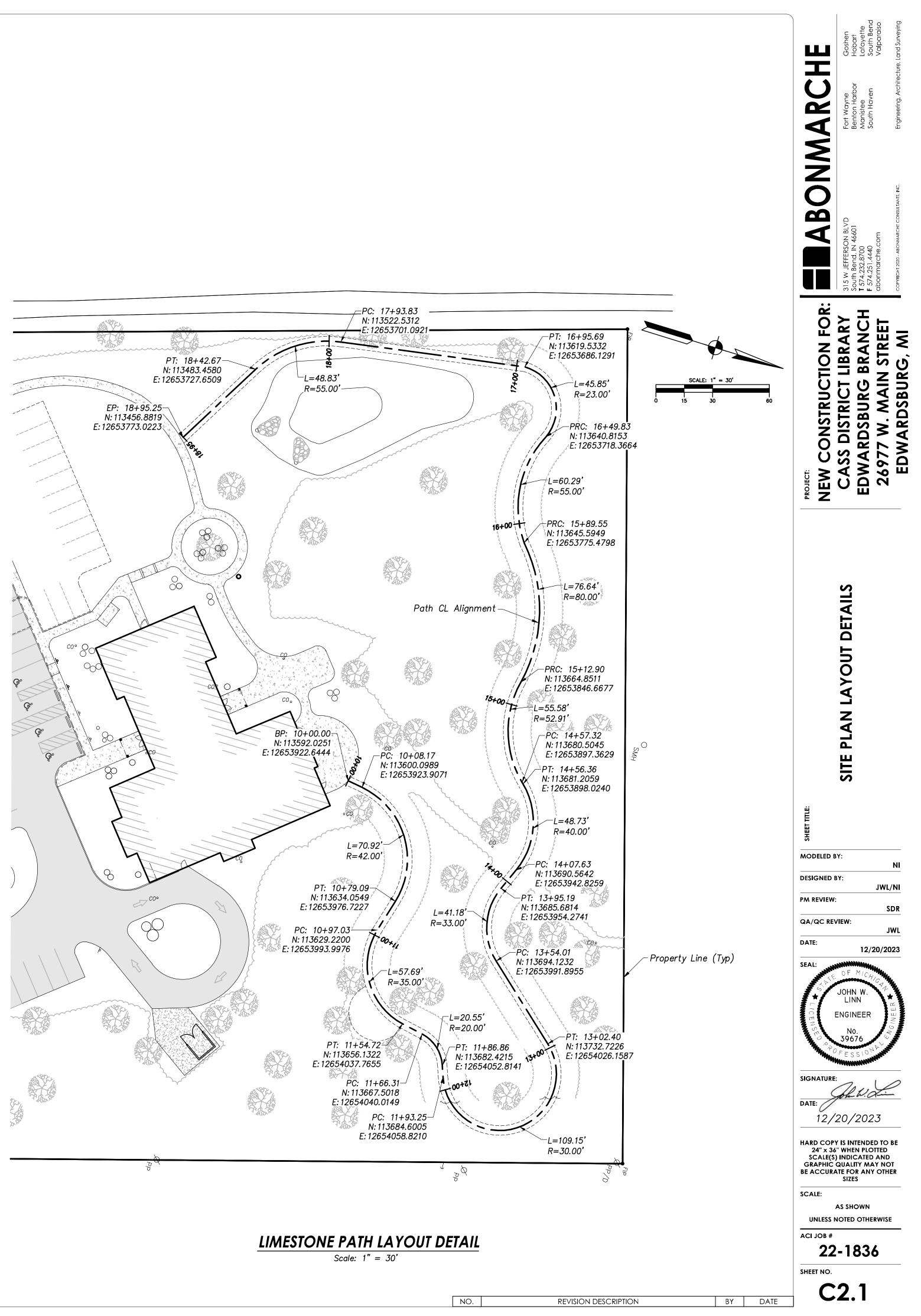
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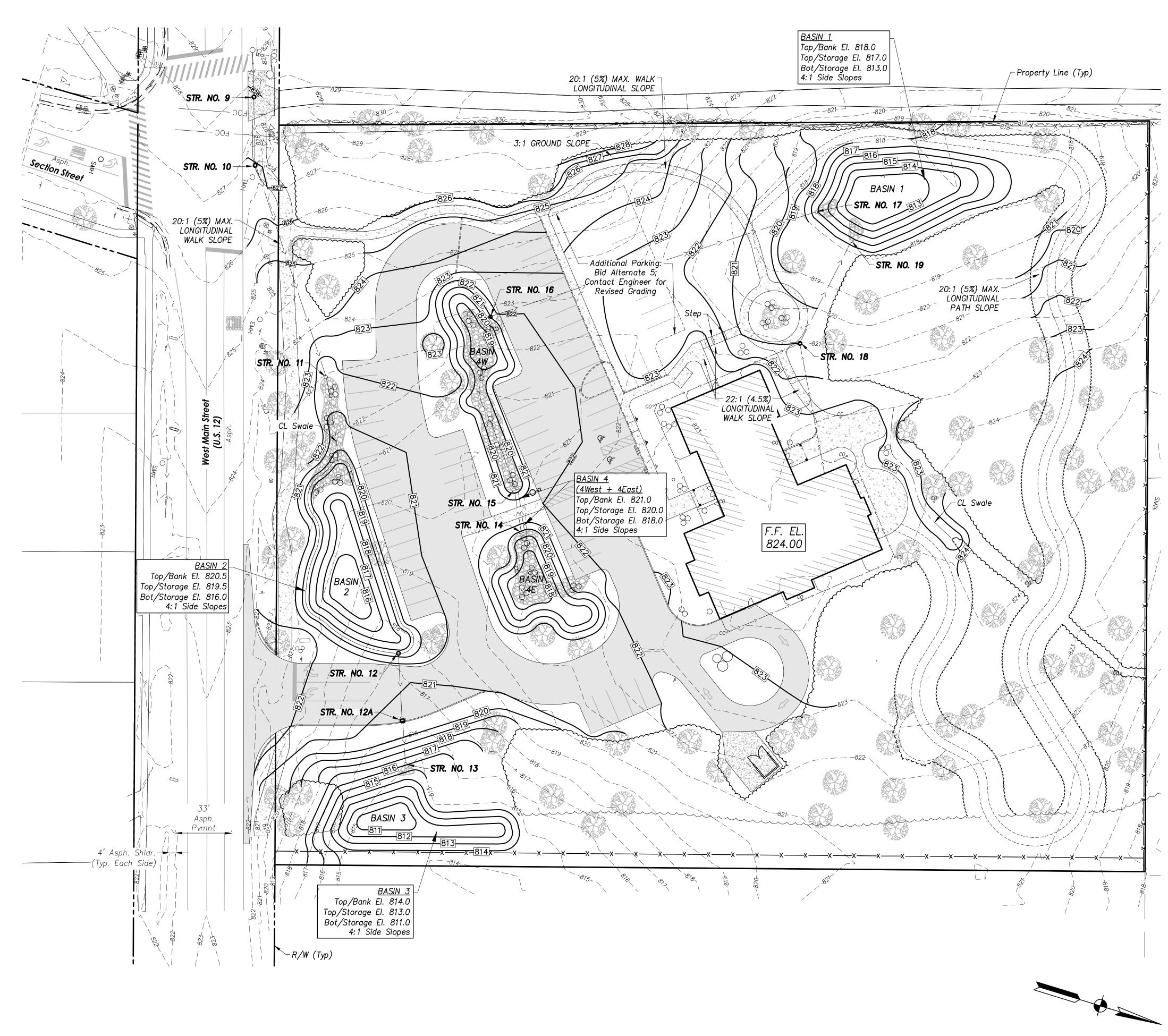
REVISION DESCRIPTION



	Full Depth HMA Pavement: 1—1/2" HMA Surface 2—1/2" HMA Intermediate 6" Compacted Aggregate Base on Compacted Subgrade
	4" Concrete Sidewalk
202	4"—6" Glacial Cobble Stone

- In Accordance w/"Stone Apron & Pipe End Section Detail," Sheet C8.1





EXISTING FEATURES LEGEND

\bigtriangleup T	Telephone Pedestal	Y	Fire Hydrant
⊖ SMH	Sanitary Sewer Manhole	— w —	Water Main
⊖ ЕМН	Electric Manhole	>>	Sanitary Sewer
𝒫 PP	Power Pole	>	Storm Culvert
Ø TLP	Traffic Strain Pole	G	Gas Main
Ø PP/D	Power Pole w/Drop	— FOC —	Fiber Optic Marker
$ ot\otimes$ PP/L	Power Pole w/Light	OH	Overhead Electric
\rightarrow	Guy Anchor	X	Fence
S T C	Large Diameter Tree		Tree Line
"AGAA	To Řemain		Contour

PROPOSED FEATURES LEGEND

	Full Depth HMA Pavement
$ \begin{array}{c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & $	Concrete Pavement
	Glacial Cobble Stone
<u>— 891</u>	Contour
~~~~~	Tree Line
Ô	Drainage Structure
C0	Clean—Out
>	Storm Sewer
80	Boulder Group, See Landscape Plar

# **DRAINAGE & GRADING CONSTRUCTION NOTES**

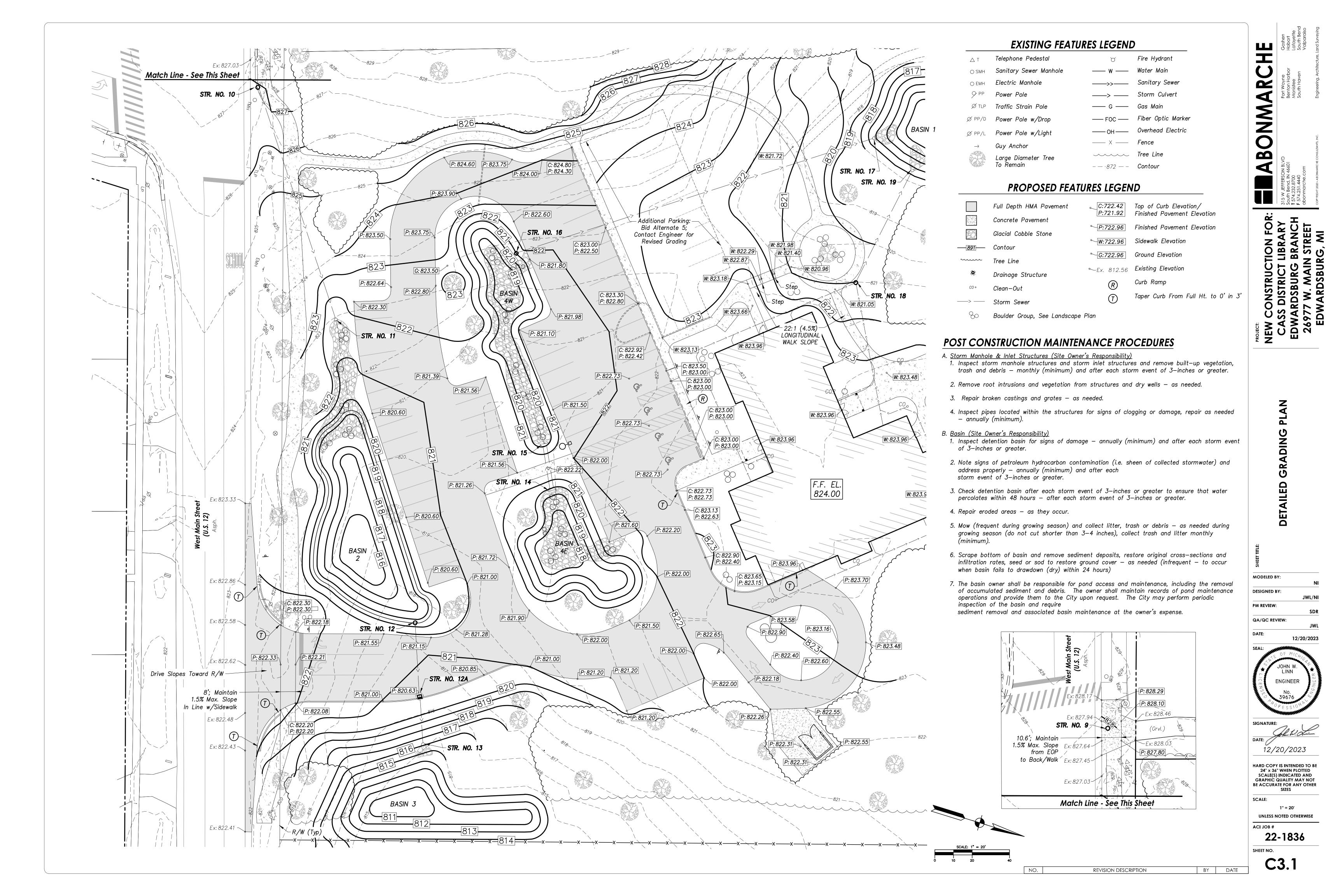
- 1. Contractor shall remove topsoil and stockpile the material onsite at a location approved by the Owner.
- 2. All fill material shall be placed and compacted in accordance with the geotechnical report.
- 3. Prior to commencing paving operations, Contractor shall proof roll exposed subgrade with a geotechnical engineer or qualified representative to witness the work. Excavate unsuitable soil and backfill and compact with suitable material capable of supporting the anticipated loads.
- 4. Place site grading backfill in maximum six inch lifts and compact to 100% Standard Proctor to the top of subgrade.
- 5. Paving Contractor is responsible for adjusting all castings located in the pavement to finished grade.
- 6. No construction traffic permitted at bottom of basins.
- 7. Remove silt from bottom of any storm water management basin prior to Owner's acceptance of the Work.
- 8. The proposed contours and spot elevations on these plans show grading intent only. Contractor is responsible for confirming that the provided grading plan maintains positive drainage to prevent ponded water or encroachment onto adjacent properties; and shall contact the Engineer if additional grades are needed, if the design does not provide positive drainage, or if any discrepancies/conflicts are found.
- 9. Contractor shall prepare site in accordance with the geotechnical report. Conflicts between these specifications and the geotechnical report shall be brought to the the attention of the Engineer.

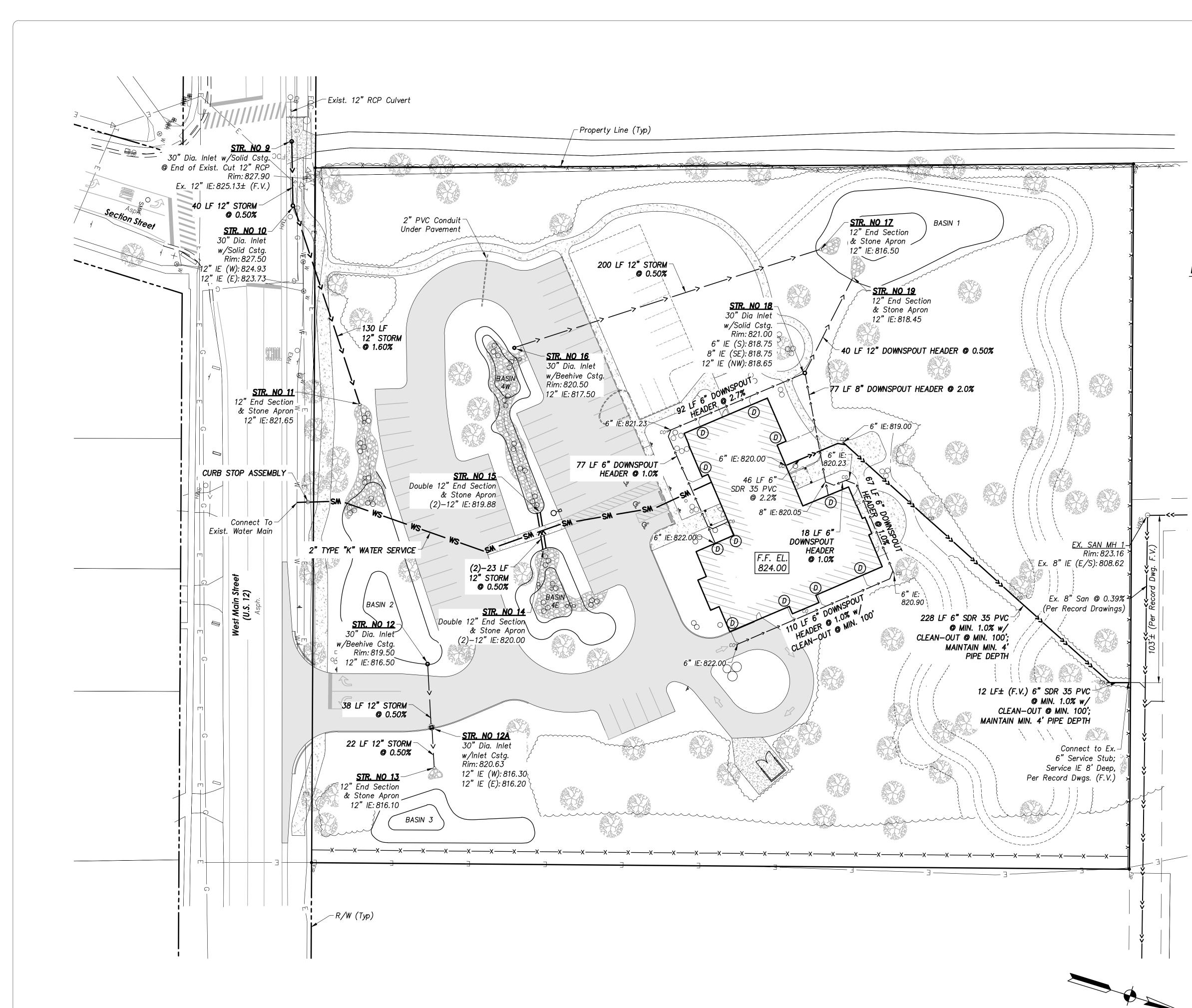
# GENERAL NOTES

- 1. See Sheet C3.1 for the Detailed Grading Plan.
- 2. See Sheet C3.1 for Post Construction Maintenance Procedures.



NO.





# EXISTING FEATURES LEGEND

$\bigtriangleup$ T	Telephone Pedestal	Ø	Fire Hydrant
⊖ SMH	Sanitary Sewer Manhole	— w —	Water Main
○ ЕМН	Electric Manhole	>>	Sanitary Sewer
✓ PP	Power Pole	>	Storm Culvert
Ø TLP	Traffic Strain Pole	—— G ——	Gas Main
Ø PP/D	Power Pole w/Drop	— FOC —	Fiber Optic Marker
Ø PP/L	Power Pole w/Light	—— ОН ——	Overhead Electric
$\rightarrow$	Guy Anchor	X	Fence
2 X K	Large Diameter Tree		Tree Line
7 Back	To Remain		Contour

# **PROPOSED FEATURES LEGEND**

	Full Depth HMA Pavement
	Concrete Pavement
	Glacial Cobble Stone
891	Contour
	Tree Line
Ó	Drainage Structure
CO •	Clean—Out
<b>D</b>	Downspout Connection
80	Boulder Group, See Landscape Plan

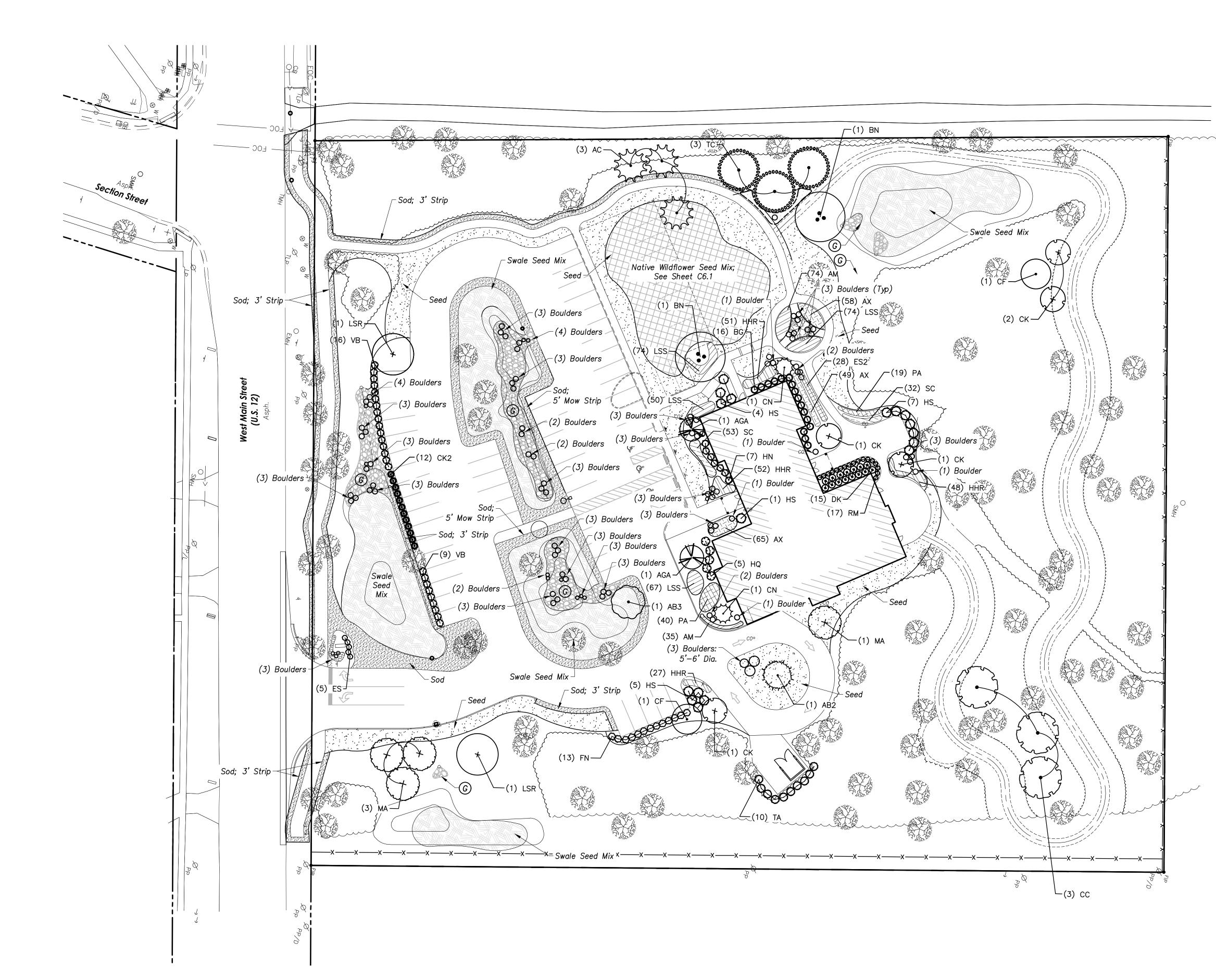
# STORM SEWER NOTES

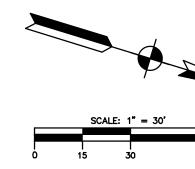
- 1. <u>CASTINGS</u> a. Flat Inlet Casting: Neenah R—2502 b. Beehive Casting: Neenah R-2561-A c. Solid Casting: Neenah R-1642
- 2. Storm sewer open grate castings shall be stamped with a fish image and the message: "DUMP NO WASTE - DRAINS TO WATERWAYS"
- 3. Neenah castings specified. Approved equal to specified Neenah Foundry Co. castings may be acceptable if approved by Owner. Contractor to submit casting cut sheets to Owner for review.
- . <u>STORM SEWER PIPE</u> a. ADS Double Wall HPDE or Approved Equal; b. SDR 35 PVC

# UTILITIES CONSTRUCTION NOTES

- Contractor is responsible for having existing underground utilities located and field confirming locations and depths prior to commencing construction.
- 2. Contractor shall coordinate utility service locations and depths in the R/Wwith utility companies prior to installation.
- 3. Contractor shall verify utility service locations and depths at the building with the Architect prior to installation.
- 4. Contractor shall coordinate with utility companies as necessary if service interruption is required.
- 5. Materials, construction and testing shall be in accordance with the current construction standards of the local jurisdiction.
- 6. Contractor shall verify the water table depth and include dewatering costs in the Bid. The water table shall be lowered to at least 12 inches below the lowest pipe invert prior to pipe installation.
- 7. Maintain minimum 10 feet clear of horizontal separation between sewer and water pipes. Maintain minimum 18 inches clear of vertical separation at sewer and water pipe crossings. If clearances cannot be met, sewer shall be water grade pipe in accordance with AWWA standards. At crossings, water grade sewer pipe shall extend a minimum of 10 feet past each side of the crossing, and one full length of water pipe shall be centered at the crossing.
- 8. Maintain minimum 5 feet of cover at water mains & services.
- 9. Unsuitable material that may affect the structural integrity of the pipe shall be replaced or treated to support the anticipated loads.
- 10. Sewer Contractor is responsible shall install castings to within 0.1 feet of finished grade.
- 11. Storm and sanitary sewer castings shall be imprinted with the notices as specified on the construction details.
- 12. Sewer Contractor is responsible shall install castings to within 0.1 feet of finished grade.
- 13. Roof downspouts shall connect to the storm sewer. It is the Contractor's responsibility to review the Arch. plans and confirm downspout locations.
- 14. Utilities other than sewer and water shall be installed underground and placed in PVC conduit where located under pavement sidewalk and curb.
- 15. The main lawn sprinkler service line shall branch off the domestic water service line inside the building and shall have a separate service.
- 16. Remove sediment buildup from storm structures prior to Owner's acceptance of the Work.
- 17. Contractor shall coordinate with municipality for water connection.
- 18. Contractor shall be responsible for obtaining well head protection permit.







# LANDSCAPE NOTES

- 1. Locate all utilities prior to beginning work. Utilities shown were located by field survey, but they may not indicate all underground improvements.
- Examine existing conditions and verify conditions are acceptable for required work. Notify Engineer of any discrepancies with information shown on plans prior to beginning work.
- 3. Protect all existing paving, structures, utilities, and plant material indicated to remain. Contractor responsible for any damage to existing features at no expense to the owner.
- Contractor responsible for removal of any existing grass, weeds, or scrub growth within limits of plant bed edge or within 5' diameter circle around base of each tree.
- 5. Plants and other materials are quantified and summarized for the convenience of the owner and jurisdictional agencies only. Confirm and install sufficient quantities to complete the work as drawn on the plans. No additional payments will be made for materials required to complete the work as drawn. Contractor responsible for verifying all quantities.
- 6. All proposed plant substitutions must be approved by the Engineer.
- 7. All plant material shall be warranted for one (1) year from the date of final acceptance.
- 8. Plants shall confirm to the minimum measurements listed on the plant list.
- 9. All plant material shall comply with all recommendations and requirements of ANSI Z60.1–2004 "American Standard for Nursery Stock." Plant material shall be healthy, vigorous stock grown with good horticultural practice under climactic conditions similar to those of the project site, and installed in accordance with methods established by the American Association of Nurserymen.
- 10. All plant material must be tagged by the nursery of origin for proper identification in the field.
- 11. All trees and shrubs to be be mulched with 3" depth shredded hardwood bark mulch (no dye) free of foreign matter, unless noted otherwise on plan. Perennial beds to receive 2" depth shredded hardwood bark mulch (no dye). Trees outside of bed lines to be mulched with a 5' diameter mulch ring. Mulch shall not be placed within 3" of trunks.
- 12. Rake topsoil to eliminate uneven areas and remove debris, roots, branches, and stones in excess of 1 inch size, and ensure positive drainage is retained away from buildings during landscape construction activities.
- 13. All areas disturbed by construction shall be seeded unless noted otherwise.
- 14. Contractor responsible for erosion control in all seeded areas.
- 15. All planting bed edges not adjacent to paving or curb shall receive a 1/8" x 4" black steel edging, natural mill finish.
- 16. Clean all surfaces of soil, mulch, and landscape debris after work is complete.
- 17. Landscape boulders shall be 3'-5' in diameter unless noted otherwise.
- 18. Contractor shall clear 20' beyond all proposed elements.
- 19. Contractor shall place 1" of mulch over swale seed mix.
- 20. Contractor shall deadfall limbs in woods to 12' and clear all debris.

# LANDSCAPE LEGEND

G 4"-6" Glacial Cobble Stone over Non-Woven Geotextile; 6" Cobble @ Pipe End Sections In Accordance w/"Stone Apron & Pipe End Section Detail", Sheet C9.1

For Boulder/Stone Placement At Basins, See Detail, Sheet C6.1

# LANDSCAPE DETAILS

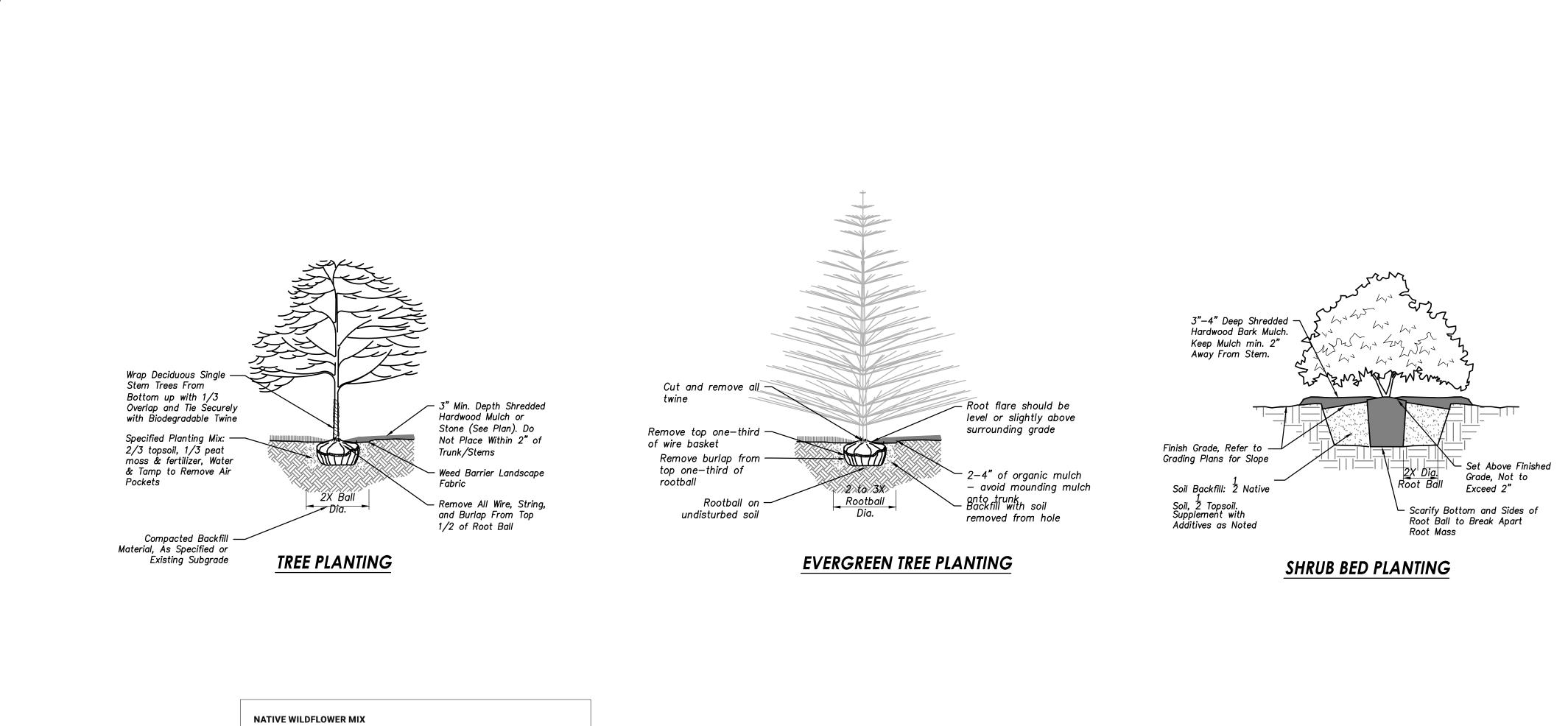
NO.

**REVISION DESCRIPTION** 

BY DATE

See Sheet C6.1.

ONMARCHE	Fort Wayne Goshen Benton Harbor Hobart Manistee Lafayette South Haven South Bend Valparaiso	Nc. Engineering, Architecture, Land Surveying
	315 W JEFFERSON BLVD South Bend, IN 46601 <b>7</b> 574.232.8700 <b>F</b> 574.251.4440 abonmarche.com	COPYRIGHT 2020 - ABONMARCHE CONSULTANTS, INC.
PROJECT: NEW CONSTRUCTION FOR:	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH 26977 W. MAIN STREET	EDWARDSBURG, MI
	LANDSCAPE PLAN	
MODELED E DESIGNED I PM REVIEW QA/QC REV DATE: SEAL:	3Y: SDR/I : SDR/I : S	SDR IWL D23
ACI JOB #	20/2023 Y IS INTENDED TO "WHEN PLOTTED INDICATED AND QUALITY MAY NO ATE FOR ANY OTH SIZES 1" = 30' NOTED OTHERWIS -1836 6.0	) DT ER



This seed mix includes quick-blooming native wildflowers to provide initial color during native prairie establishment, especially on restoration sites. This mix contains many species beneficial to native bees and pollinators and can be used to supplement other seed mixes or existing natural areas. This seed mix includes at least 10 of 12 native forb species. Apply at 4.63 PLS pounds per acre.

Botanical Name	Common Name	PLS Oz/Acre
Permanent Native Species:		
Asclepias syriaca	Common Milkweed	4.00
Chamaecrista fasciculata	Partridge Pea	16.00
Coreopsis lanceolata	Sand Coreopsis	8.00
Desmanthus Illinoensis	Illinois Sensitive Plant	12.00
Echinacea purpurea	Broad-Leaved Purple Coneflower	12.00
Lupinus perennis v. occidentalis	Wild Lupine	4.00
Monarda fistulosa	Wild Bergamot	1.50
Penstemon digitalis	Foxglove Beard Tongue	1.00
Ratibida pinnata	Yellow Coneflower	4.00
Rudbeckia hirta	Black-Eyed Susan	10.00
Solidago speciosa	Showy Goldenrod	0.50
Symphyotrichum laeve	Smooth Blue Aster	1.00
	Total	74.00



### ROCK AREAS AT BASINS Contractor shall use 4-6" cobblestone in rock areas. Boulders shall be 4-6".

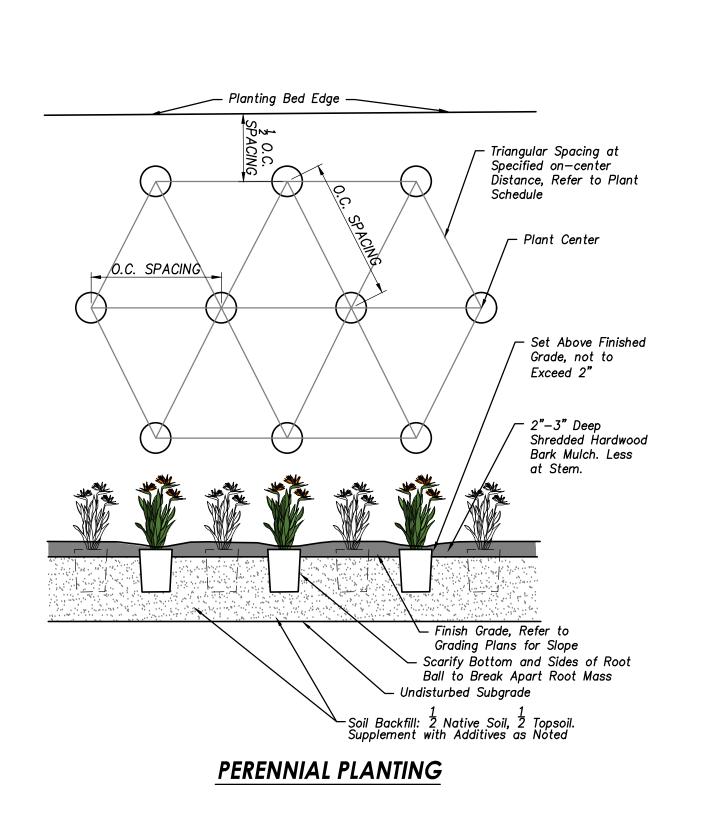
### Swale

Best suited for drainage swales or depressions, the native plants used in this mix help filter pollutants from lawns and pavement runoff. This seed mix can also be applied to areas that temporarily retain water after a rain event or dry-bottomed detention basins. The swale seed mix includes at least 10 of 12 native permanent grass and sedge species and 12 of 17 native forb species to provide diversity for establishment. Apply at 37.00 PLS pounds per acre.

Botanical Name	Common Name	PLS 02/Acre
Permanent Grasses/Sedges		
Andropogon gerardii	Big Bluestern	4.00
Carex cristatella	Crested Oval Sedge	0.50
Garex lurida	Bottlebrush Sedge	3.00
Carex spp.	Prairie Sedge Species	8.00
Carex vulpinoidea	Brown Fox Sedge	3.00
Elymus canadensis	Canada Wild Rye	16.00
Elymus virginicus	Virginia Wild Rye	16.00
Juncus canadensis	Canadian Rush	1.00
Panicum wigatum	Switch Grass	3.00
Scirpus atrovirens	Dark Green Rush	2.00
Scirpus cyperinus	Wool Grass	0.50
Spartina pectinata	Prairie Cord Grass	3.00
	Total	60.00
Temporary Cover		
Avena sativa	Common Oat	512.00
	Total	512.00
Forbs		
Alisma subcordatum	Common Water Plantain	1.00
Asclepias incamata	Swamp Milloweed	2.00
Coreopsis tripteris	Tall Coreopsis	1.00
Euthamia graminifolia	Common Grass-Leaved Goldenrod	0.50
Eutrochium maculatum	Spotted Joe-Pye Weed	1.00
Iris virginica v. shrevei	Blue Flag	4.00
Liatris spicata	Marsh Blazing Star	1.00
Lycopus americanus	Common Water Horehound	0.50
Minulus ringens	Monkey Flower	0.50
Penthorum sedoides	Ditch Stonecrop	1.00
Pycnanthemum virginianum	Common Mountain Mint	0.50
Rudheckia triloba	Brown-Eyed Susan	1.00
Senna hebecarpa	Wild Senna	1.00
Silphium terebinthinaceum	Prairie Dock	1.00
Symphyotrichum novee-angliae	New England Aster	0.50
Verbena hastata	Blue Vervain	1.50
Zizia awea	Golden Alexanders	2.00
	Total	20.00

# PLANT SCHEDULE <u>TREES</u> AB3 AG LSR 0A EVERGREEN TREES CN FLOWERING TREES <u>SHRUBS</u> BG <u>ORNAMENTAL GRASSES</u> <u>BOTANICAL NAME</u> CK2 <u>SHRUB AREAS</u> SR PERENNIALS ES2 HHR LSS

Sedum x 'Carl'



#### <u>COMMON NAME</u> Trident Maple <u>SIZE</u> 2.5" Cal <u>BOTANICAL NAME</u> <u>CONTAINER</u> <u>SPACING</u> Acer buergerianum 2.5" Cal 8'-10' HT 2.5" Cal 2.5" Cal Paperbark Maple B&B Acer griseum 40' O.C. B&B River Birch Multi-Trunk Betula nigra Round-Lobed Sweet Gum B&₿ 40' O.C. Rotundiloba Liquidambar styraciflua Quercus alba White Oak <u>SIZE</u> 10'–12' HT <u>BOTANICAL NAME</u> <u>CONTAINER</u> <u>SPACING</u> COMMON NAME Balsam Fir 10'-12' HT Abies concolor White Fir 6'-8' HT Callitropsis nootkatensis 'Pendula' Weeping Nootka False Cypress Thuja occidentalis 'Art Boe' 6'-8' HT North Pole® Arborvitae Tsuga canadensis Eastern Hemlock 6'—8' HT <u>SIZE</u> 8'-10' HT CONTAINERSPACINGB&B15' 0.C. <u>BOTANICAL NAME</u> <u>COMMON NAME</u> Amelanchier x grandiflora 'Autumn Brilliance Autumn Brilliance Serviceberry B&₿ 25' O.C. 2" Cal Eastern Redbud Cercis canadensis 2" Cal 8'-10' HT Cornus florida 'Cherokee Chief' Cherokee Chief Dogwood B&B As Shown Multi-Trunk B&B Cornus kousa 'Milky Way' Milky Way Kousa Dogwood 2.5" Cal B&B As Shown Malus x 'Adams' Adams Crabapple <u>SIZE</u> 24" Ht <u>BOTANICAL NAME</u> <u>CONTAINER</u> <u>SPACING</u> <u>COMMON NAME</u> Buxus x 'Green Gem' Green Gem Boxwood 15" Ht. Diervilla x 'Kodiak Orange' Cont. Kodiak® Orange Diervilla 24" Ht Euonymus japonicus 'Silver King' Silver King Euonymus 4' O.C. Forsythia x 'New Hampshire Gold New Hampshire Gold Forsythia 1 Gal Ozark Witchhazel 24" Ht Hamamelis vernalis Hydrangea macrophylla 'Nikko Blue Nikko Blue Hydrangea 24" Ht Hydrangea quercifolia 'Brenhill' Gatsby Gal® Oakleaf Hydrangea 24" Ht Cont. 18" Ht. Rhododendron x 'Mary Fleming Mary Fleming Rhododendron 24" Ht Viburnum x 'Burkwoodii' Burkwood Viburnum <u>COMMON NAME</u> <u>SIZE</u> <u>CONTAINER</u> <u>SPACING</u> Calamagrostis x acutiflora 'Karl Foerster' Karl Foerster Feather Reed Grass 1 Gal <u>SIZE</u> 6" Tall <u>CONTAINER SPACING</u> <u>SPACING</u> <u>REMARKS</u> <u>BOTANICAL NAME</u> COMMON NAME False Solomon's-seal No. 1 Smilacina racemosa <u>SIZE</u> 1 Gal <u>COMMON NAME</u> CONTAINER<br/>PotSPACING<br/>16" 0.C. <u>BOTANICAL NAME</u> Millenium Ornamental Chive Allium x 'Millenium' Astilbe x 'Versraspberry' Younique™ Raspberry Astilbe 1 Gal Epimedium stellulatum Bishops Hat 4" POT 18" O.C. 16" O.C. 24" O.C. 18" O.C. Happy Returns Daylily 1 Gal Pot Hemerocallis x 'Happy Returns' 1 Gal 1 Gal 1 Gal Pot Pot Pot Leucanthemum x superbum 'Snowcap' Snowcap Shasta Daisy Perovskia atriplicifolia 'Little Spire' Little Spire Russian Sage

Carl Sedum

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	Goshen Hobart Lafayette South Bend Valparaiso	Land Surveyir
CH	ie arbor /en	Engineering, Architecture, Land Surveying
AR	Fort Wayne Benton Harbor Manistee South Haven	Engineering
<b>N</b>		
<b>S</b>		dnsultants, Inc.
A	315 W JEFFERSON BLVD South Bend, IN 46601 T 574.232.8700 F 574.251.4440 abonmarche.com	COPVRIGHT 2020 - ABONMARCHE CONSULTANTS, INC.
	315 W JEFFERSON B 304th Bend, IN 466( <b>T</b> 574.232.8700 <b>F</b> 574.251.4440 dbonmarche.com	COPYRIGHT 202
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<u>REMARKS</u>

<u>REMARKS</u>

<u>REMARKS</u>

<u>SPACING</u><u>REMARKS</u>

<u>SPACING</u><u>REMARKS</u> 48" o.c.

<u>SPACING</u><u>REMARKS</u> 16" o.c.

48" o.c.

48" o.c.

36" o.c.

48" o.c. 72" o.c.

48" o.c. 60" o.c.

30" o.c.

48" o.c.

18" o.c.

24" o.c.

18" o.c.

16" o.c. 24" o.c.

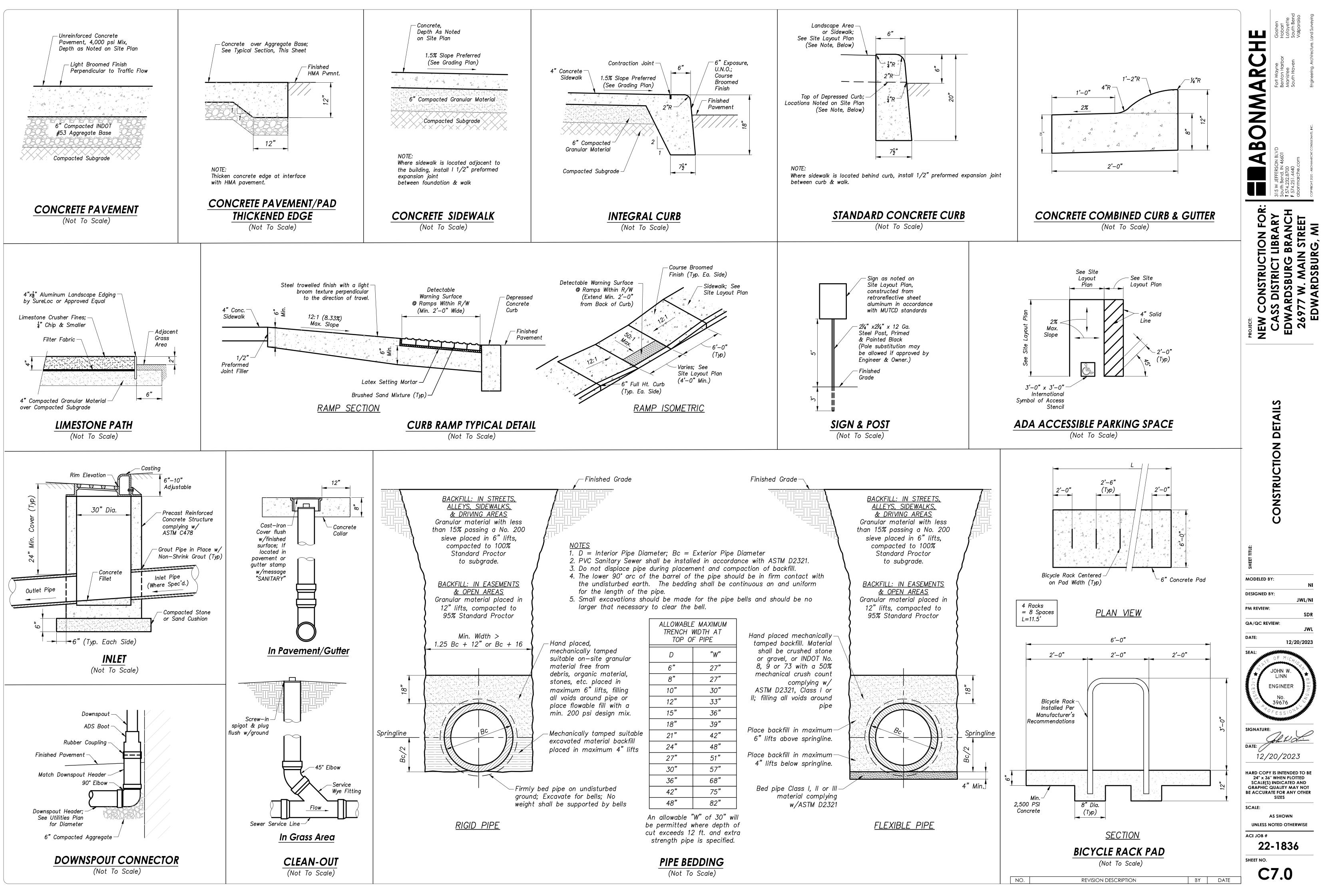
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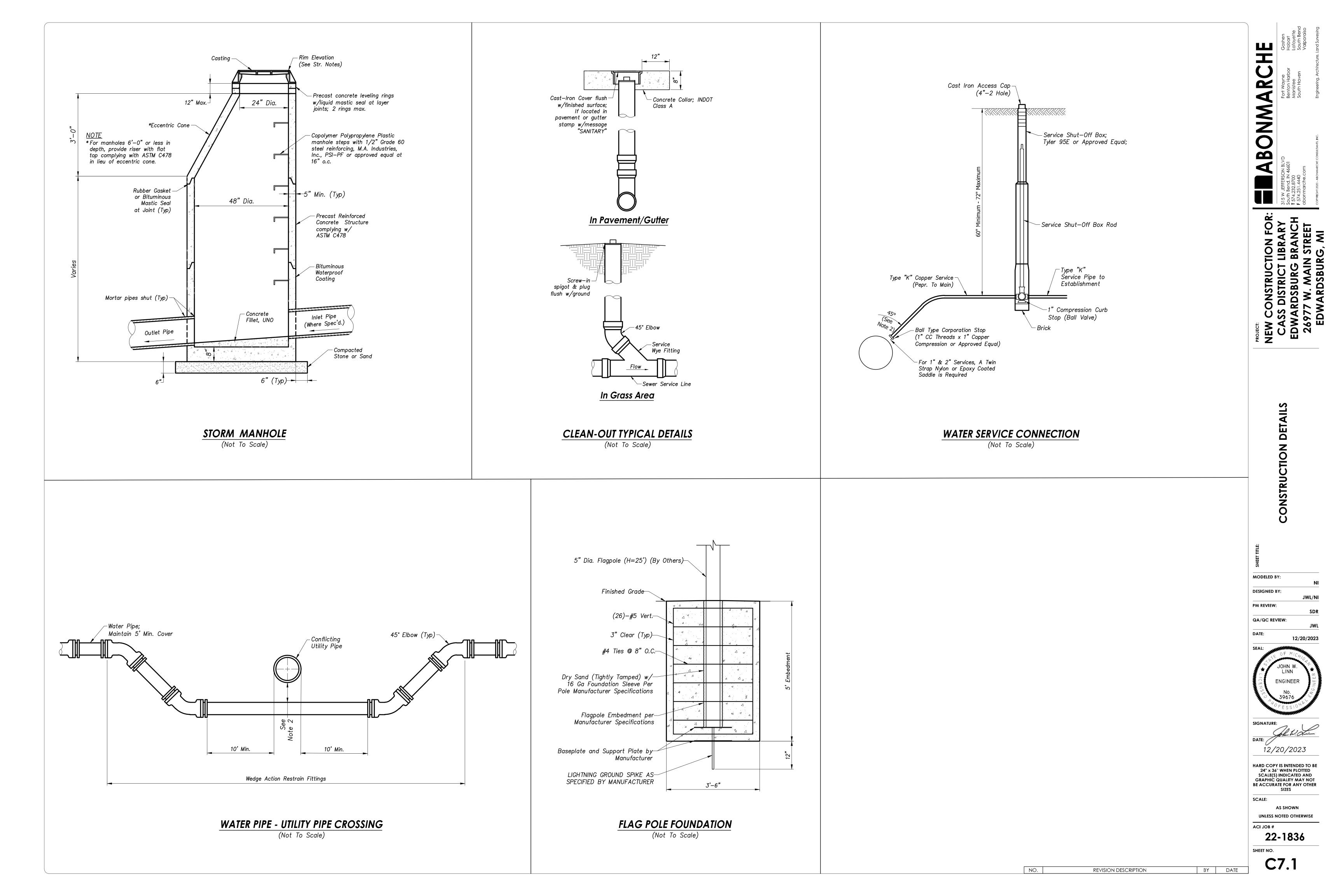
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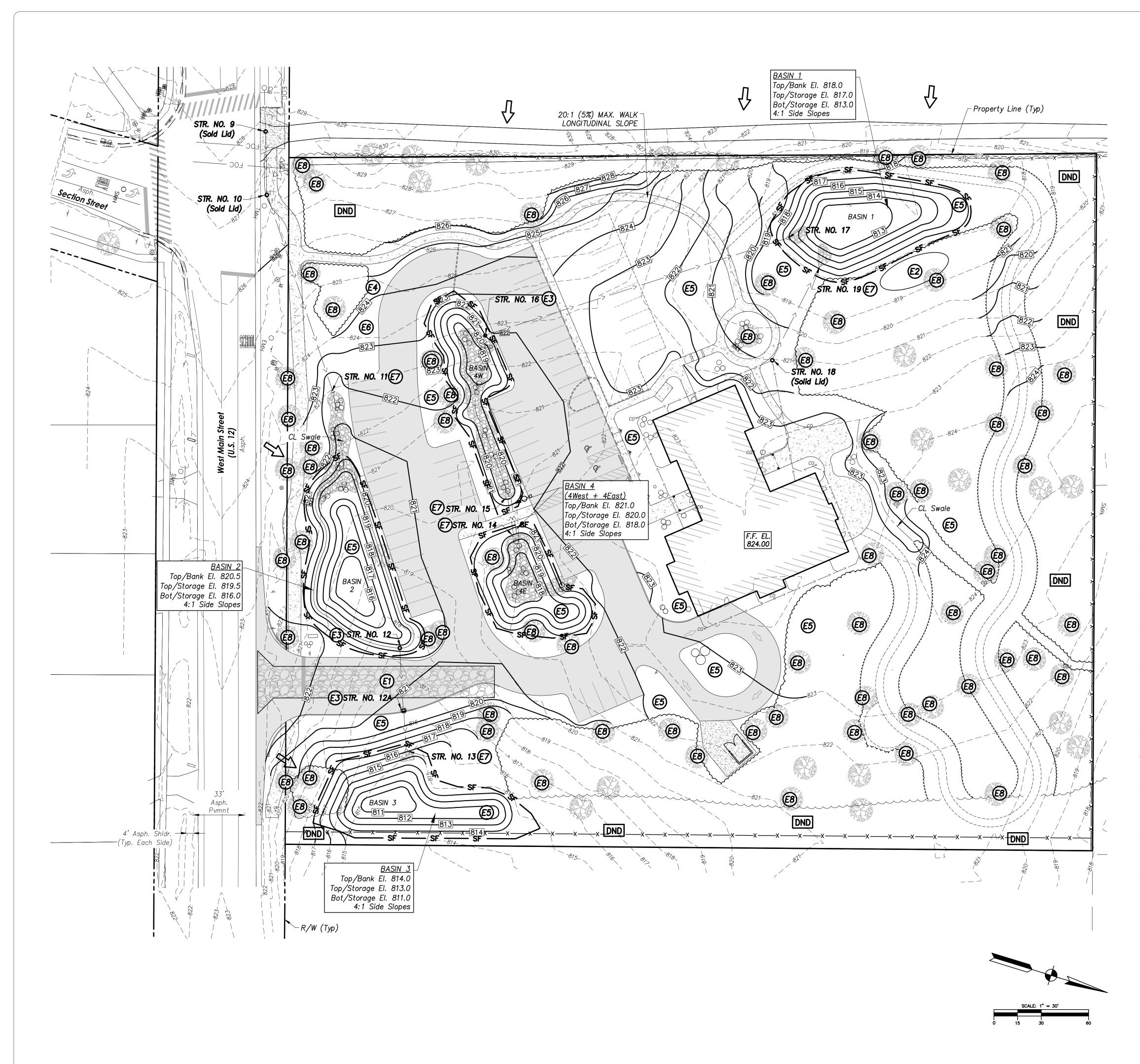
Single Stem

NO.

**REVISION DESCRIPTION** 







# EXISTING FEATURES LEGEND

riangle T	Telephone Pedestal	V	Fire Hydrant
⊖ SMH	Sanitary Sewer Manhole	— w —	Water Main
○ ЕМН	Electric Manhole	>>	Sanitary Sewer
✓ PP	Power Pole	>	Storm Culvert
Ø TLP	Traffic Strain Pole	G	Gas Main
Ø PP/D	Power Pole w/Drop	—— FOC ——	Fiber Optic Marker
Ø PP/L	Power Pole w/Light	OH	Overhead Electric
$\rightarrow$	Guy Anchor	X	Fence
2 Kitte	Large Diameter Tree	~~~~~	Tree Line
M. S. K.	To Remain		Contour



# **EROSION CONTROL LEGEND**

(E1)	Temporary Construction Entrance		Full Depth HMA Pavement	AN I AN AN
Ĕ2	Temporary Soil Stockpile		Concrete Pavement	
Ĕ3	Inlet Protection		Limestone Path	
Ĕ4	Concrete Washout Structure		Glacial Cobble Stone	RIC M.
Ē5	Vegetated Area — Seeding & Secured Mulch; Erosion Control Blanket on Slopes Greater		Contour	NSI DSE W.
	Than 5:1 & on areas that fail to stabilize with seed and mulch	~~~~~	Tree Line	
<b>E6</b>	Staging Area w/Posted NOI	Ó	Drainage Structure	С А С С А С
Ē	Pipe End Section & Stone Apron	CO o	Clean—Out	
Ē8	Preserve & Protect Tree	>	Storm Sewer	
—SF—	Temporary Silt Fence			
DND	DO NOT DISTURB — Existing Vegetative Area			
¶∱	Runoff Entering the Site			AN

**PROPOSED FEATURES LEGEND** 

# **EROSION CONTROL NOTES**

- . The temporary construction entrance shall be installed and maintained to minimize the amount of soil tracked onto public/private roadways. A tentative location is shown on the plan. The Contractor shall submit actual location(s) to the Owner for approval. Entrance(s) shall be installed prior to any other construction activity. See "Temporary Construction Entrance" detail.
- Storm sewer inlets within the construction limits and existing inlets nearby that may be impacted by construction shall be protected as specified on this plan or an approved equal. The intent of this measure is to prevent sediment from entering the drainage system. See inlet protection detail(s).
- 3. Until the project is accepted by the Owner, the Contractor shall maintain all erosion control measures to prevent sediment from entering public and private storm sewers and from leaving the project site. Contractor shall implement and maintain any additional measures at the request of the Local Inspectors at no additional cost.
- 4. The location of silt fence shown on the drawing shall act as a guide for the Contractor to follow. Actual field conditions shall dictate the location and amount of silt fence required to prevent sediment from entering public and private storm sewers and from leaving the project site. Silt fence shall also be installed at specific down slope areas as shown on the plan. Silt fence or other appropriate sediment barriers shall be installed a minimum of 10 feet from the toe of slope of any onsite or offsite soil stockpile, borrow and/or disposal areas. See "Silt Fence" detail.
- 5. The location shown on the plan for the concrete washout structure is tentative and subject to change by the Contractor and Owner prior to construction. See "Concrete Washout" detail.
- Soil material shall be temporarily stockpiled onsite as necessary during construction and any excess material not needed shall be hauled away and disposed of in accordance with local, state and federal guidelines.
- 7. Locations for temporary construction staging and dewatering operations (if required) shall be determined by the Contractor and Owner prior to construction. These locations shall be provided to the municipality prior to construction of said items and adequate protection installed to protect public and private drainage systems.
- 8. All areas disturbed by construction shall be stabilized with seeding measures. Temporary Seeding shall take place as soon as possible on any bare or thinly vegetated areas which have less than 70 percent cover and will remain inactive for a period of 15 days or more. Temporary and Permanent Seeding shall be in accordance with the Indiana Storm Water Quality Manual.
- Erosion Control Blankets, where specified, shall be North American Green DS-150 or approved equal. Contractor shall follow the manufacturer's guidelines for installation and maintenance. See temporary slope stabilization detail.
- 10. All work performed within municipal right—of—way shall conform with municipal standards and details.

# INSPECTIONS/REPORTING

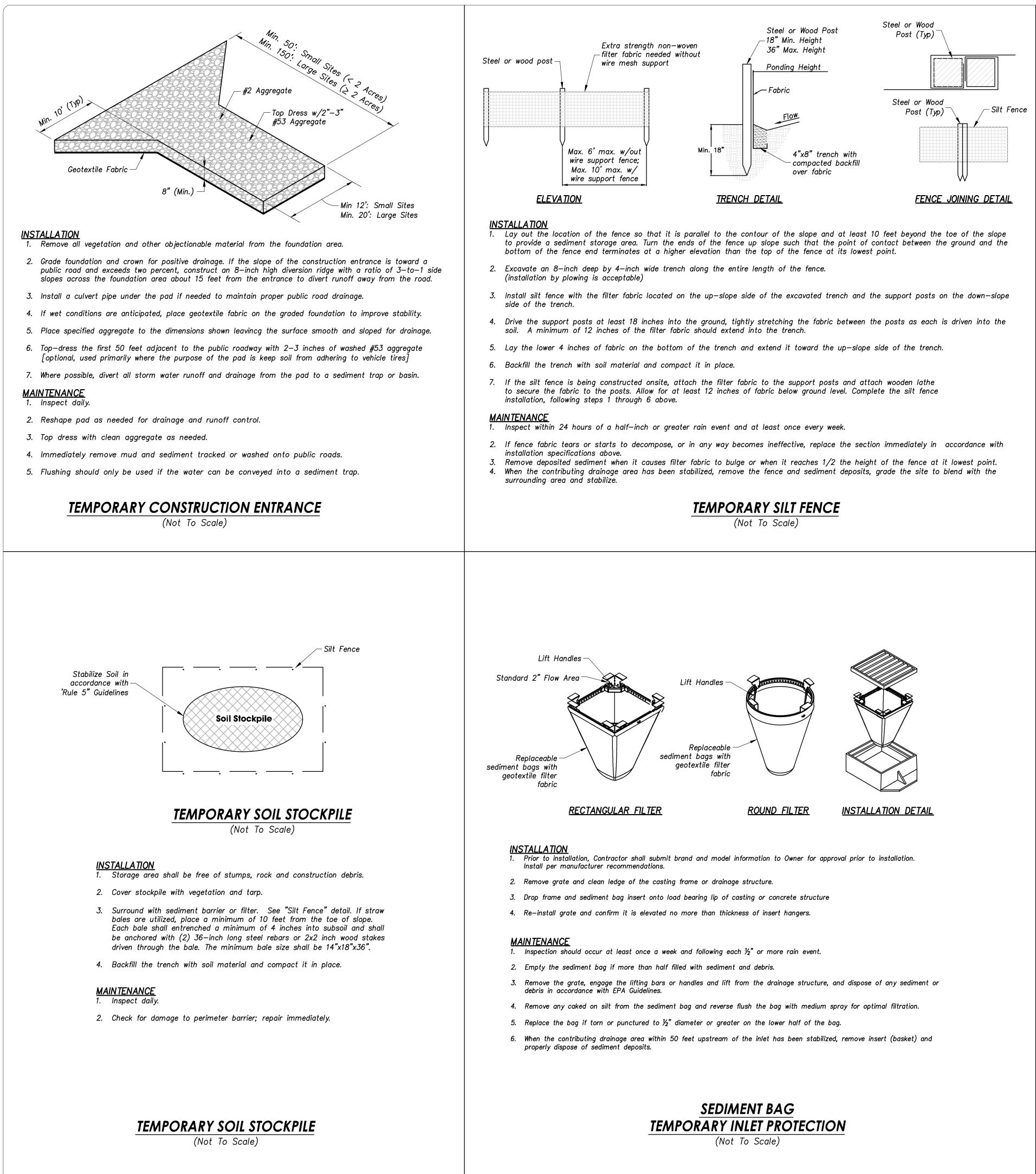
The Owner shall require the Contractor to review all erosion control devices on a weekly basis and/or within 24 hours of every ½ inch rainstorm event. The Contractor shall use an approved evaluation form for all site reviews. Any resulting problems shall be immediately reviewed and corrected by the Contractor.

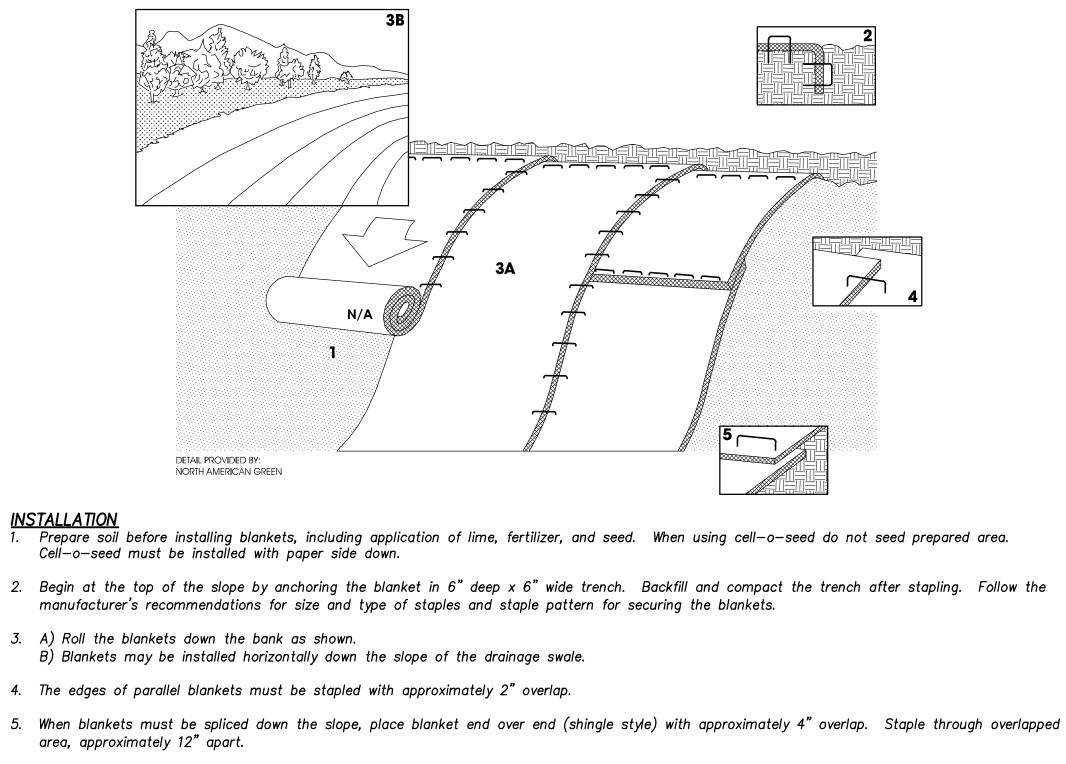
DATE: 12/20/2023 SEAL: JOHN W. LINN ENGINEER SIGNATURE: Chhidin DATE: 12/20/2023 HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZES SCALE: 1'' = 30' UNLESS NOTED OTHERWISE ACI JOB # 22-1836

SHEET NO.

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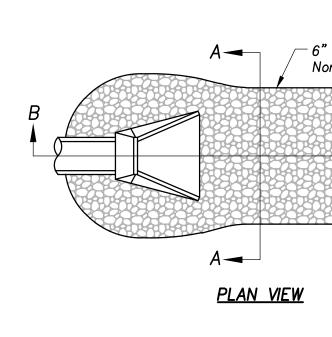
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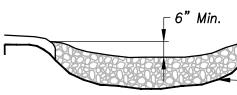




<u>MAINTENANCE</u>

- 2. Check for erosion or displacement of the blanket.
- blanket.





### SECTION A-A

### <u>INSTALLATION</u>

1. Prepare subgrade – remov density of the surrounding

### <u>MAINTENANCE</u>



1. Inspect within 24 hours of a half-inch or greater rain event and at least once every week.

3. If any area shows erosion, pull back that portion of the blanket covering the eroded area, add soil and tamp, reseed area, replace and staple the

# **EROSION CONTROL BLANKET SLOPE STABILIZATION**

(Not To Scale)

' Glacial Cobblestone over on—Woven Geotextile Fabric	SIZING OF I	FLOW DISSIPA	TERS AT PI	PE OUTLETS	
B	PIPE SIZE	AVERAGE STONE DIA.	APRON WIDTH	APRON LENGTH	
	8 in.	3 in.	6 ft.	7 ft.	
	12 in.	5 in.	6 ft.	12 ft.	
	15 in.	6–7 in.	6 ft.	15 ft.	
	18 in.	8 in.	6 ft.	18 ft.	
	24 in.	10 in.	8 ft.	22 ft.	
	30 in.	12 in.	10 ft.	28 ft.	
	36 in.	14 in.	12 ft.	32 ft.	
		Pipe	e End Section	w/Animal Guard Stone, 18" Thick — Normal Wa	
— Non—Woven Geotextile Fabric	Non- Geotextile	Woven Fabric <u>SECTIOI</u>	N B-B		
ove vegetation and debris, ex	very te te better			ah ann fill ha bha	

2. Place geotextile, overlapping edges at least 12 inches and secure with anchor pins at 3' spacing along overlap. 3. Place stone in one operation. Do not dump through chutes or use any method that causes segregation of stone sizes. If geotextile fabric tears, repair immediately.

4. Blend riprap surface smoothly with surrounding area to eliminate protrusions aor overfalls.

1. Inspection should occur at least once a week and following each  $\frac{1}{2}$  or more rain event.

2. Inspect for stone displacement; replace stones ensuring placement at finished grade.

3. Check for erosion or scouring around sides of the apron; repair immediately.

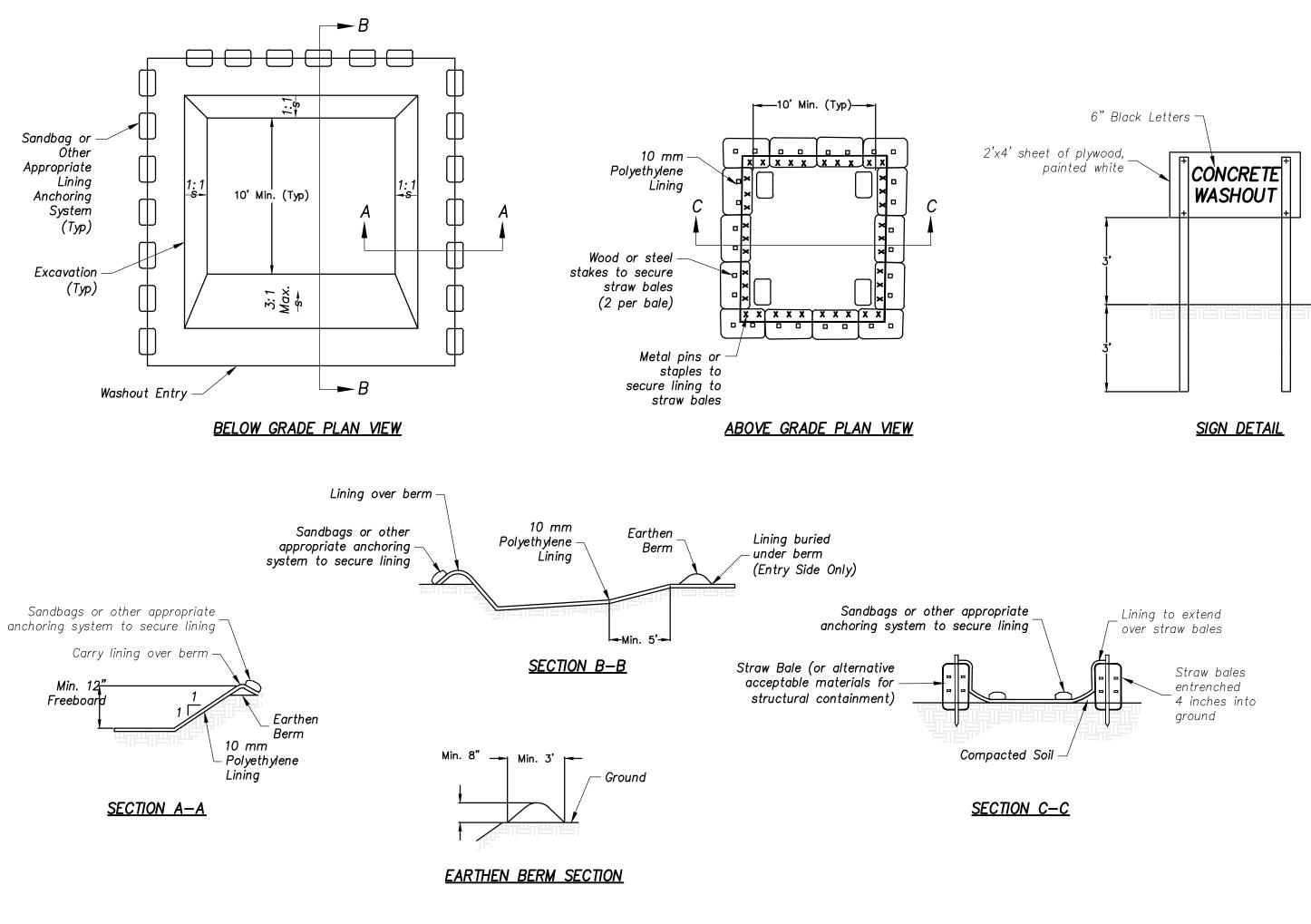
4. Check for piping or undercutting; repair immediately.

# STONE APRON & PIPE END SECTION TREATMENT

(Not To Scale)

<b>E ABONMARCHE</b>	315 W JEFFERSON BLVDFort WayneGoshenSouth Bend, IN 46601Benton HarborHobartT 574.232.8700ManisteeLafayetteF 574.251.4440South HavenSouth Bend	abonmarche.com copyricht 2220 - Abonmarche consultants, INC. Engineering, Architecture, Land Surveying
PROJECT: NEW CONSTRUCTION FOR:	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH	26977 W. MAIN STREET EDWARDSBURG, MI
SHEET TITLE:	SOIL EROSION AND SEDIMENTATION CONTROL PLAN	
MODELED B		NI
DESIGNED E  PM REVIEW:	)T:	JWL/NI SDR
QA/QC REV  DATE:	12/2	JWL 20/2023
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SIGNATURE	10000000000000000000000000000000000000	
HARD COPY 24" x 36 SCALE(S) GRAPHIC BE ACCURA	20/202 ( IS INTENDE WHEN PLOT NDICATED QUALITY MA TE FOR ANY SIZES	3 D TO BE TIED AND Y NOT
UNLESS N ACI JOB #	as shown Ioted other - 1836	
SHEET NO.	<b>8.1</b>	•

NO.	



- **INSTALLATION**
- 1. Either excavate the pit or install the containment system. For prefabricated containers, locate, and install according to the manufacturer's recommendations. 2. Prepare a base free of rocks and other debris that may cause tears/punctures in the polyethylene lining.
- 3. Install the polyethylene lining. For excavated systems, extend lining over the entire excavation. For bermed systems, install lining over the pooling area with enough material to extend over the berm or containment system. Secure lining with pins, staples, or other fasteners.
- 4. Place flags, safety fencing, or equivalent for a barrier to construction equipment and other traffic.
- 5. Place a non-collapsing, non-water holding cover over the washout facility prior to a predicted rainfall event to prevent accumulation of water and possible overflow of the system (optional).
- 6. Install signage that identifies concrete washout areas and post signs directing contractors and suppliers to designated locations.
- 7. Where necessary, provide stable ingress and egress or alternative approach pad for concrete washout systems.

#### MAINTENANCE

- 1. Inspect daily and after each storm event Inspect the integrity of the overall structure and containment system where applicable.
- 2. Inspect the system for leaks, spills, and tracking of soil by equipment, and the polyethylene lining for failure, including tears and punctures.
- 3. Once concrete wastes harden, remove and dispose of the material.
- 4. Remove excess concrete when the washout system reaches 50 percent of the design capacity. Discontinue use until appropriate measures can be initiated to clean the structure.
- 5. Upon removal of the solids, inspect the structure. Repair as needed or construct a new system.
- 6. Dispose of all the concrete in a legal manner. Reuse the material on site, recycle, or haul the material to an approved landfill site. Recycling of material is encouraged.
- 7. Replace the plastic liner after every cleaning.
- 8. Repair or replace system as needed.
- 9. Concrete washout systems are designed to promote evaporation. If liquids do not evaporate and the system is near capacity, vacuum or remove liquids or utilize secondary containment. 10. Inspect construction activities on a regular basis to ensure suppliers, contractors, and others are utilizing designated washout areas. If concrete waste is being disposed of improperly, identify violators and take appropriate action.
- 11. When the concrete washout system is no longer required, it shall be closed.
- 12. Backfill, grade and stabilize all holes, depressions and other land disturbances associated with the system.

**CONCRETE WASHOUT STRUCTURE** 

(Not To Scale)

# **TREE PRESERVATION & PROTECTION**

**<u>PURPOSE</u>** To protect and insure survival of desirable existing trees from the effects of construction activity.

### TREE PROTECTION

problems.)

### MATERIALS REQUIRED

- 1. Fencing (orange safety fencing for increased visibility), snow fence ad support posts.
- 2. Signage.
- 3. Wood mulch, chips, etc.
- 4. Specialized equipment (brush cutter, rotary axe, hand TOOLS)

### APPLICATION

- 1. Flag or mark all trees to be protected.
- 2. AVOID COMPACTION: c. Create traffic patters to keep soil compaction to a minimum.
- d. Store supplies and equipment away from tree areas. 3. REDUCE DAMAGE FROM GRADING:
- a. When clearing, use equipment such as a brush cutter or rotary axe., or cut by hand. c. Avoid placing fill over the root system.
- 4. AVOID WOUNDING TREES: snow fencing.
- 5. REPAIR TREE DAMAGE:
- (Utilize the services of a consulting forester.) a. Properly prune all damaged limbs. Avoid leaving stubs. b. Aerate soil where compaction has been excessive.
- c. Fertilize to improve tree growth, vigor and appearance. d. Water during dry periods to help offset soil compaction and root damage.
- <u>MAINTENANCE</u>
- 1. Inspect at least once every seven calendar days. 2. Repair perimeter barriers if damaged.
- DO NOT USE TREE PAINT.
- 4. Cable and brace any trunk splits, weak forks and large limbs.

1. Protect trees from equipment damage. (Wounds provide entry for insects and disease and reduce transport of sap.) 2. If trees are damaged, repair immediately. (Repair of wounded areas allows trees to heal quickly, thus reducing insect and disease

a. Install orange fencing around the tree as far out as its crown to keep equipment off the rooting area. b. If a fence cannot be erected, cushion the rooting area with six inches of wood chips, wood or brick paths.

b. Where root areas must be graded, cur large roots instead of tearing them with equipment.

a. Protect trees from equipment damage by creating some type of barrier, fencing them off or wrapping individual trees with b. Prune low hanging limbs that could otherwise be broken by equipment.

3. Inspect for damage from construction equipment, etc. Repair wounds simply by removing damaged bark and wood tissue.

<b>E ABONMARCHE</b>	315 W JEFFERSON BLVD South Bend, IN 46601 Benton Harbor Hobart T 574.232.8700 Manistee Lafayette		copyright 2020 - Abonmarche consultants, INC. Engineering, Architecture, Land Surveying
PROJECT: NEW CONSTRUCTION FOR:	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH	EET	EDWARDSBURG, MI
SHEET TITLE:	SEDIMENTATION CONTROL PLAN		
MODELED B DESIGNED B PM REVIEW: QA/QC REV DATE: SEAL:	The with the second se	220/20 7/G 7/2 7/G 7/2 7/2 7/2	DR WL 23
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# DORMANT AND FROST SEEDING SPECIFICATIONS

CONTRACTOR TO DETERMINE THE APPROPRIATE SEEDING METHOD BASED ON THE TIME OF YEAR.

#### <u>PURPOSE</u>

- 1. To provide early aermination and soil stabilization in the spring.
- 2. To reduce sediment-laden stormwater runoff from being transported to downstream areas. 3. To improve visual aesthetics of construction area.
- 4. To repair or enhance previous seeding.

#### MATERIALS REQUIRED

1. Soil amendments based upon analysis of soil by a soil testing service. (fertilizer, etc.)

### 2. Seed (information follows)

3. Mulch (straw, hay, wood fiber, etc.) for protection of seedbed, moisture retention and encouragement of plant growth. mulch must be anchored to prevent dispersal by wind or water. may be covered with manufactured erosion control blankets.

### SEEDING SPECIFICATIONS

Note that seeding done outside of the optimum seeding dates increases the chances of seeding failure. dates may be shortened or extended depending on the location of the site within the State of Indiana. Mulch alone is an acceptable temporary cover and may be used in lieu of temporary seeding, providing that it is appropriately anchored. perennial species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than one year (see permanent seeding).

#### Temporary Dormant or Frost Seeding

Wheat or Rye: 150 pounds per acre/Spring Oats: 150 pounds per acre/Annual Rye Grass: 60 pounds per acre

#### Permanent Dormant or Frost Seeding

OPEN LOW-MAINTENANCE AREAS (REMAINING IDLE MORE THAN 6 MONTHS):

Perennial ryegrass & white clover: ryegrass 75 pounds per acre + 3 pounds of clover per acre, optimum soil ph 5.6 to 7.0 Perennial ryegrass & tall fescue: ryegrass 45 pounds per acre + 45 pounds of fescue per acre, optimum soil ph 5.6 to 7.0 Tall fescue & white clover: fescue 75 pounds per acre + 3 pounds of white clover per acre, optimum soil ph 5.5 to 7.5 Kentucky bluegrass, smooth bromegrass, switchgrass, timothy, perennial ryegrass, & white clover: bluegrass 30 pounds per acre +15 pounds of bromearass per acre + 5 pounds of switcharass per acre + 6 pounds of timothy per acre + 15 pounds of ryearass per acre + 3 pounds of white clover per acre, optimum soil ph 5.5 to 7.5

#### STEEP BANKS AND CUTS (LOW-MAINTENANCE AREAS, NOT MOWED):

Smooth bromearass & red clover: brome 50 pounds per acre + 30 pounds of red clover per acre, optimum soil ph 5.5 to 7.0 Tall fescue & white clover: fescue 75 pounds per acre + 30 pounds of white clover per acre, optimum soil ph 5.5 to 7.5 Tall fescue & red clover: fescue 75 pounds per acre + 30 pounds of red clover per acre, optimum soil ph 5.5 to 7.5 Orchard grass, red clover & white clover: orchard grass 45 pounds per acre + 30 pounds of red clover per acre + 3 pounds of white clover per acre, optimum soil ph 5.6 to 7.0

#### LAWNS AND HIGH-MAINTENANCE AREAS:

Bluegrass: bluegrass 210 pounds per acre, optimum ph 5.5 to 7.0 Perennial ryegrass & bluegrass: 90 pounds of ryegrass per acre & 135 pounds of bluegrass per acre, optimum ph 5.6 to 7.0 Tall fescue (turf type) & bluegrass: fescue 250 pounds per acre + 45 pounds of bluegrass per acre, optimum soil ph 5.6 to 7.5

#### CHANNELS AND AREAS OF CONCENTRATED FLOW:

Perennial ryegrass & white clover: ryegrass 225 pounds per acre + 3 pounds of white clover per acre. optimum soil ph 5.5 to 7.0 Kentucky bluegrass, smooth bromegrass, switchgrass, timothy, perennial ryegrass, & white clover: bluegrass 30 pounds per acre + 15

pounds of bromearass per acre + 5 pounds of switcharass per acre + 6 pounds of timothy per acre + 15 pounds of ryearass per acre + 3 pounds of white clover per acre, optimum soil ph 5.5 to 7.5

Tall fescue & white clover: fescue 225 pounds per acre + 3 pounds of clover per acre, optimum soil ph 5.5 to 7.5

<u>Tall fescue, perennial rye grass, & Kentucky bluegrass</u>: fescue 225 pounds per acre + 30 pounds of ryegrass per acre + 30 pounds of bluegrass per acre, optimum soil ph 5.5 to 7.5

FOR BEST RESULTS:

- 1. Legume seed should be inoculated.
- 2. Seeding mixtures containing learnes should be spring-seeded: grass may be fall-seeded and the learne frost seeded 3. If legumes are fall-seeded, do so in early fall 4. If using mixtures other than those listed above, increase seeding rates by 50% over the conventional seeding rates.

#### APPLICATION

- Site Preparation: 1. Grade the site to achieve positive drainage.
- 2. Add topsoil to achieve needed depth for establishment of vegetation.

<u>Dormant Seeding:</u>

1. Test soil to determine ph and nutrient levels.

- 2. Broadcast soil amendments as recommended by soil test and work into the upper 2 to 4 inches of soil. If testina is not done. apply 200 to 300 pounds per acre of 12-12-12 analysis fertilizer, or equivalent. 3. Apply anchored mulch immediately after completion of grading and addition of soil amendments.
- 4. Select appropriate seed species (see seed specifications above). Broadcast the seed on top of the mulch and/or into existing around cover at rates shown. Areas are to be seeded when soil temperatures are below 50 degrees but the soil is not frozen.

<u>Frost Seeding:</u>

- 1. Test soil to determine pH and nutrient levels.
- 2. Broadcast soil amendments as recommended by a soil test and work into the upper 2 to 4 inches of soil before it freezes. If
- testing was not done, apply 200 to 300 pounds per acre of 12–12–12 analysis fertilizer, or equivalent. 3. Select appropriate seed species or mixture (see seed specifications above). Broadcast the seed on the seedbed when the soil is
- frozen. do not work the seed into the soil.

#### MAINTENANCE

- 1. Inspect at least once every seven calendar days.
- 2. Check for erosion or movement of mulch.
- 3. Check for inadequate cover (less than 80 percent density over the soil surface); reseed and mulch in mid to late April if necessary. For best results, reseed within the recommended dates shown under temporary and permanent seeding).
- 4. Apply 200 to 300 pounds per acre of 12–12–12 analysis fertilizer, or equivalent, between April 15 and May 10 or during periods of vigorous growth.
- 5. Fertilize turf areas annually. Apply fertilizer in a split application. For cool-season grasses, apply 1/2 in late Spring and 1/2 in early Fall. For warm–season grasses, Apply  $\frac{1}{3}$  in early Spring,  $\frac{1}{3}$  in late Spring, & the remaining  $\frac{1}{3}$  in middle Summer.

Note: Required density of vegetative cover = 80 percent or greater over the soil surface.

# TEMPORARY SEEDING SPECIFICATIONS

т	EMPORARY SE	EDING SPECIFICATION	NS TABLE	_ /
SEED SPECIES (1)	RATE/ACRE	PLANTING DEPTH	OPTIMUM DATES (2)	] (
Wheat or Rye	150 lbs.	1 to 1–1/2 inches	Sept. 15 – Oct. 30	
Spring Oats	100 lbs.	1 inch	March 1 — April 15	
Annual Ryegrass	40 lbs.	1—1/4 inch	March 1 — May 1 Aug. 1 — Sept. 1	
German Millet	40 lbs.	1 to 2 inches	May 1 — June 1	
Sudangrass	35 lbs.	1 to 2 inches	May 1 — July 30	
Buckwheat	60 lbs.	1 to 2 inches	April 15 – June 1	
Corn (broadcast)	300 lbs.	1 to 2 inches	May 11 — Aug. 10	
Sorghum	35 lbs.	1 to 2 inches	May 1 — July 15	

(1)	Perennial species may be used as a temporary cover, especially if the
	area to be seeded will remain idle
	for more than one year (See
	Permanent Seeding).

(2) Seeding done outside the optimum seeding dates increases the chances of seeding failure. Dates may be extended or shortened based on the location of the project site within the state.

NOTE: Mulch alone is an acceptable temporary cover and may be used in lieu of temporary seeding, provided that it is appropriately anchored. A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

# PERMANENT SEEDING SPECIFICATIONS

### **APPLICATION**

- Site Preparation 1. Grade the site to achieve positive drainage.
- 2. Add topsoil or compost mulch to achieve needed depth for establishment of vegetation. (Compost material may be added to improve soil moisture holding capacity, soil friability, and nutrient availability.)

#### <u>Seedbed</u> Preparation Test soil to determine pH and nutrient levels.

- 2. Apply soil amendments as recommended by the soil test and work into the upper two to four inches of soil. If testing is not done, apply 400 to
- 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent. 3. Till the soil to obtain a uniform seedbed. Use a disk or rake, operated across the slope, to work the soil amendments into the upper two to four inches of the soil

#### <u>Seeding</u>

Optimum seeding dates are March 1 to May 10 and August 10 to September 30. Permanent seeding done between May 10 and August 10 may need to be irrigated. Seeding outside or beyond optimum seeding dates is still possible with the understanding that reseeding or overseeding may be required if adequate surface cover is not achieved. Reseeding or overseeding can be easily accomplished if the soil surface remains well protected with mulch.

- 1. Select a seeding mixture and rate from Table 1 Permanent Seeding Recommendations. Select seed mixture based on site conditions, soil pH, intended land use, and expected level of maintenance.
- 2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover the seed to a depth of one-fourth to one-half inch. If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding
- operations. (If seeding is done with a hydroseeder fertilizer and mulch can be applied with the seed in a slurry mixture.) 3. Mulch all seeded areas and use appropriate methods to anchor the mulch in place. Consider using erosion control blankets on sloping areas and convevance channels.

#### **MAINTENANCE**

- 1. Inspect within 24 hours of each rain event and at least once every seven calendar days until the vegetation is successfully established. 2. Characteristics of a successful stand include vigorous dark areen or bluishareen seedlings with a uniform vegetative cover density of 90% or more. 3. Check for erosion or movement of mulch.
- 4. Repair damaged, bare, gullied, or sparsely vegetated areas and then fertilize, reseed, and apply and anchor mulch.
- 5. If plant cover is sparse or patchy, evaluate the plant materials chosen, soil fertility, moisture condition, and mulch application; repair affected areas either by overseeding or preparing a new seedbed and reseeding. Apply and anchor mulch on the newly seeded areas. 6. If vegetation fails to grow, consider soil testing to determine soil pH or nutrient deficiency problems. (Contact your soil and water conservation
- district or cooperative extension office for assistance.)
- 7. If additional fertilization is needed to get a satisfactory stand, do so according to soil test recommendations. 8. Add fertilizer the following growing season. Fertilize according to soil test recommendations.
- 9. Fertilize turf areas annually. Apply fertilizer in a split application. For cool-season grasses, apply one-half of the fertilizer in late spring and one-half in early fall. For warm-season grasses, apply one-third in early spring, one-third in late spring, and the remaining one-third in middle summer.

These tables provide seed mixture options. Additional seed mixtures are available commercially. When selecting a mixture, consider intended land use and site conditions, including soil properties (e.g., soil pH and drainage), slope aspect, and the tolerance of each species to shade and drought. OPEN LOW-MAINTENANCE AREAS

(REMAINING IDLE FOR MORE THAN 6 MONTHS)

### LAWNS AND HIGH-MAINTENANCE AREAS

OPTIMUM SOIL PH

SEED MIXTURES	RATE/ACRE PURE LIVE SEED	optimum soil ph	SEED MIXTURES	RATE/ACRE PURE LIVE SEED	OPTIMUM SOIL PH
1. Perennial ryegrass	70 lbs.	5.6 to 7.0	1. Bluegrass	140 lbs.	5.5 to 7.0
– white clover (1)	2 lbs.		2. Perennial ryegrass	60 lbs.	5.6 to 7.0
2. Perennial ryegrass	70 lbs.	5.6 to 7.0	(turf type)	90 lbs.	3.0 10 7.0
– tall fescue (2)	50 lbs.		3. Tall fescue, turf type (2)	170 lbs.	5.6 to 7.5
3. Tall fescue (2)	70 lbs.	5.5 to 7.5	-bluegrass	30 lbs.	
– white clover (1)	2 lbs.				

STE	EP BANKS AND	CUTS	CHANNELS AND ARE	AS OF CONCENT	RATED FLOWS
	ENANCE AREAS	•	SEED MIXTURES	RATE/ACRE	OPTIMUM SOIL F
SEED MIXTURES	RATE/ACRE	OPTIMUM SOIL PH	1. Perennial ryegrass	150 lbs.	5.5 to 7.0
1. Smooth brome grass	35 lbs.	5.5 to 7.0	– white (1)	2 lbs.	
– red clover (1)	20 lbs.		2. Kentucky bluegrass	20 lbs.	
2. Tall fescue (2)	50 lbs.	5.5 to 7.5	– smooth bromegrass	10 lbs.	5.5 to 7.5
- white clover (1)	2 lbs.		— switchgrass	3 lbs.	
	EQ Ib a	E E 4. 7 E	– timothy	4 lbs.	
3. Tall fescue (2) – red clover (1)	50 lbs. 20 lbs.	5.5 to 7.5	— perennial ryegrass	10 lbs.	
	20 105.		– white clover	2 lbs.	
4. Orchard grass	30 lbs.	5.6 TO 7.0	3. Tall fescue (1)	150 lbs.	5.5 to 7.5
– red clover (1) – white clover (1)	20 lbs.		– white clover	2 lbs.	
- write clover (1)	2 lbs.		4. Tall fescue (2)	150 lbs.	
5. Crownvetch (1)	12 lbs.	5.6 to 7.0	– perennial ryegrass	20 lbs.	5.5 to 7.5
– tall fescue (2)	30 lbs.		– Kentucky bluegrass (1)	20 lbs.	

### (1) For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes should preferably be spring-seeded; grass may be fall-seeded and the legume frost-seeded (see Dormant Seeding and Frost Seeding on page 41); and (c) if legumes are fall-seeded, do so in early fall.

(2) Tall fescue provides little cover for, and may be toxic to some species of wildlife. The Indiana Department of Natural Resources recognizes the need for additional research on alternatives such as buffalograss, orchardgrass, smooth bromegrass, and switchgrass. This research, in conjunction with demonstration areas, should focus on erosion control characteristics, wildlife toxicity, turf durability, and drought resistance.

NOTES:

1. An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures, at the following rates:

a. spring oats - one-fourth to three-fourths bushel per acre b. wheat - no more than one-half bushel per acre 2. A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

### <u>APPLICATION</u>

- <u>Seedbed Preparation</u> 1. Test soil to determine pH and nutrient levels.
- 2. Apply soil amendments as recommended by the soil test. If testing is not done, apply 400 to 600 pounds per acre of 12–12–12 analysis
- fertilizer, or eauivalent. 3. Work the soil amendments into the upper 2-4 inches of the soil with a disk or rake operated across the slope.

- 1. Select a seed species or an appropriate seed mixture and application rate from Specifications Table. 2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting, plant or cover seed to the depth shown in Specifications Table.
- 3. Notes: a. If drilling or broadcasting the seed, ensure good seed—to—soil contact by firming the seedbed with a roller or cultipacker after completing
- seeding operations. daily seeding when the soil is moist is usually most effective. b. If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a slurry mixture.
- 4. Apply mulch (see mulching and compost mulching requirements below) and anchor it in place.

### <u>MAINTENANCE</u>

- 1. Inspect within 24 hours of each rain event and at least once every seven calendar days.
- 2. Check for erosion or movement of mulch and repair immediately. 3. Monitor for erosion damage and adequate cover (80 percent density): reseed, fertilize, and apply mulch where necessary.
- 4. If nitrogen deficiency is apparent, top-dress fall seeded wheat or rye seeding with 50 pounds per acre of nitrogen in February or March.

# MULCHING SPECIFICATIONS

### TABLE 1. MULCH SPECIFICATIONS

MATERIAL (1)	RATE/ACRE	COMMENTS
Straw or Hay	2 tons	Should be dry, free of undesirable seeds. Spread by hand or machine. Must be crimped or anchored (See Table 2).
Wood fiber or cellulose (1)	1 ton	Apply with a hydraulic mulch machine and use with tacking agent.

(1) Mulching is not recommended in concentrated flows. Consider erosion control blankets or other stabilization methods

ANCHORING METHOD	HOW TO APPLY			
Mulch anchoring tool or farm disk (dull, serrated, and blades set straight)	Crimp or punch the straw or hay two to four inches into the soil. Operate machinery on the contour of the slope.			
Cleating with dozer tracks	Operate dozer up and down slope to prevent formation of rills by dozer cleats			
Wood hydromulch fibers	Apply according to manufacturer's recommendations.			
Synthetic tackifiers, binders, or soil stabilizers	Apply according to manufacturer's recommendations.			
Netting (synthetic or biodegradable material)	Install netting immediately after applying mulch. Anchor netting w/staples. Edges of netting strips should overlap with each up—slope strip overlapping 4"—6" over the adjacent down—slope strip. Best suited to slope applications. installation details are site specific; follow manufacturer's recommendations.			

#### MULCH APPLICATION

- . Coverage: Mulch should have a uniform density of at least 75 percent over the soil surface.
- 2. Apply mulch at the recommended rate shown in Table 1. 3. Spread the mulch material uniformly by hand, hayfork, mulch blower, or hydraulic mulch machine.
- After spreadina. no more than 25 percent of the ground should be visible. 4. Anchor straw or hay mulch immediately after application. The mulch can be anchored using one of the
- methods listed below: a. Crimp with a mulch anchoring tool, a weighted farm disk with dull serrated blades set straight, or track cleats of a bulldozer.
- b. Apply hydraulic mulch with short cellulose fibers.
- c. Apply a liquid tackifier. or
- d. Cover with netting secured by staples. MULCH MAINTENANCE
- . Inspect within 24 hours of each rain event and at least once a week.
- 2. Check for erosion or movement of mulch; repair damaged greas, reseed, apply new mulch & anchor mulch in place.
- 3. Continue inspections until vegetation is firmly established.
- 4. If erosion is severe or recurring, use erosion control blankets to protect the area. COMPOST MULCHING

### Compost Specifications

- 1. Feedstocks may include but are not limited to well—composted vegetable matter, leaves, yard trimmings, food scraps, composted manures, paper fiber, wood bark, Class A biosolids (as defined in Title 40 of the Code of Federal Regulations at 40 CFR Part 503), or any combination thereof.
- 2. Compost shall be produced using an aerobic composting process meeting 40 CFR Part 503 regulations, including time and temperature data indicating effective weed seed, pathogen, and insect larvae kill.
- 3. Compost shall be well decomposed, stable, and weed free.
- 4. Refuse free (less than one percent by weight).
- 5. Free of any contaminants and materials toxic to plant growth. 6. Inert materials not to exceed one percent by dry weight pH of 5.5 to 8.0.
- 7. Carbon-nitrogen ratio not to exceed 100.
- 8. Moisture content not to exceed 45 percent by dry weight.
- 9. Variable particle size with maximum dimensions of 3" in length,  $\frac{1}{2}$ " in width and  $\frac{1}{2}$ " inch in depth. 10.Compost particle size: 100% passing 2" sieve; 99% passing 1" sieve; 90% passing 3/4" sieve; 25%

# passing > 1/4" sieve. <u>Bonding Agents (optional)</u>

Tackifiers, flocculants, or microbial additives may be used to remove sediment and/or additional pollutants from storm water runoff. (All additives combined with compost materials should be tested for physical results at a certified erosion and sediment control laboratory and biologically tested for elevated beneficial microorganisms at a United States Compost Council, Seal of Testing Assurance, approved testing laboratory.)

Soil Material (optional): 5%–10% sandy loam (as classified by the U.S. Department of Agriculture soil classification system).

<u>Cover Density</u>: 90% or greater over the soil surface.

<u>Anchoring Method</u>: Moisten compost/mulch blanket for min. 60 days. Erosion control netting (optional).

		TABLE 3. COMPOST	BLANKET THICKNESS
SLOPE THICKNESS OF COMPOST BLANKET		THICKNESS OF COMPOST BLANKET	THICKNESS OF COMPOST BLANKET WITH EROSION CONTROL NETTING
< 25%	< 4:1	1 to 2 inches	Not Applicable
25% to 50%	4:1 to 2:1	1 to 2 inches	2 inches

#### COMPOST BLANKET APPLICATION

> 2:1

> 50%

- 1. Remove existing vegetation, large soil clods, rocks, stumps, large roots, and debris in areas where compost mulch is to be applied and dispose of in designated areas. 2. Scarify sloping areas.
- 3. Aerate areas to be covered with compost/mulch blanket. (Proper aeration will require a minimum of two passes oriented in opposite directions.)

3 inches

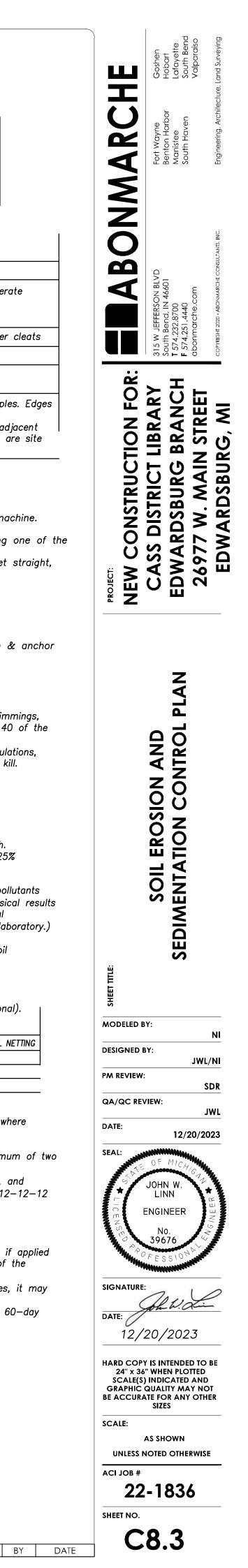
4. Broadcast a minimum of one pound of nitrogen (N), one-half pound of phosphorous (P205), and one-half pound of potash (K20) per 1,000 square feet or 300 to 400 pounds per acre of 12–12–12

2 to 3 inches

- analysis fertilizer, or equivalent, per acre.
- 5. Apply compost mulch blanket with a pneumatic blower or per manufacturer's directions. 6. Apply within three days of completing aeration operations.
- Overlap top of slope shoulder by five to ten feet.
- 8. Seed may be applied at time of installation. (Seed must be evenly blended into the compost if applied with a pneumatic blower or applied with a calibrated seeder attachment prior to installation of the compost blanket.)
- 9. Water compost mulch blanket for a period of 60 days following application. (On steeper slopes, it may
- be necessary to install erosion control netting over the compost blanket.) 10. Mist blanket for first seven days and then every three days throughout the remainder of the 60-day period.
- 11. Maintain a constant moisture content of 40 percent to 60 percent.

### COMPOST BLANKET MAINTENANCE

- Inspect within 24 hours of a rain event and at least once a week.
- 2. Repair eroded areas. Reseed, if applicable. 3. Monitor vegetation and apply appropriate soil amendments (if needed) per a soil test.



| NO. |

**REVISION DESCRIPTION** 

#### CONCRETE: ACI 318 PLACING FOUNDATION CONCRETE. STRUCTURAL STEEL: AISC STEEL CONSTRUCTION MANUAL, LRFD/ASD STEEL JOISTS & GIRDERS: SJI AMERICAN NATIONAL STANDARD (ASD) 2. CONTRACTOR SHALL REMOVE UNSUITABLE SOILS FROM BELOW THE BUILDING AND 4. COLD-FORMED STEEL: AISI \$100 PLACE SUITABLE FILL MATERIAL UNDER THE FOUNDATION COMPACTED TO 100% 5. METAL DECK: SDI MANUALS 6. WOOD: NDS FOR WOOD CONSTRUCTION STANDARD PROCTOR IN 8" MAXIMUM LIFTS. A GEOTECHNICAL ENGINEER LICENSEE IN THE STATE WHERE THE PROJECT IS LOCATED SHALL TEST COMPACTED FILL PLACED UNDER FOUNDATIONS. C. SOIL CAPACITY (ASSUMED AT BOTTOM OF FOOTING) MINIMUM SOIL BEARING PRESSURE = 2,000 PSI 2. CONTRACTOR MUST VERIFY THAT THE SOILS CAN SUPPORT THIS PRESSURE. 3. CONCRETE WORK SHALL CONFORM TO THE SPECIFICATIONS IN THE "CAST-IN-PLACE CONCRETE" SECTION OF THESE STRUCTURAL NOTES. D. <u>GRAVITY DEAD LOADS</u> ROOF = 20 PSF4. IF FOOTINGS ARE NOT PLACED IMMEDIATELY AFTER EXCAVATION, INSTALL A 2" THICK SEAL OF LEAN CONCRETE TO PROTECT THE SOIL FROM MOISTURE DAMAGE. 2. ALL OTHER = ACTUAL WEIGHTS E. GRAVITY LIVE LOADS 5. CONTRACTOR MAY LOCATE CONSTRUCTION JOINTS IN FOUNDATION WALLS AN SLAB ON GRADE = 150 PSF (AT LIBRARY STACK ROOM) FOOTINGS AT HIS DISCRETION. REINFORCING SHALL BE CONTINUOUS ACROSS SLAB ON GRADE = 100 PSF (ALL OTHER ROOMS) CONSTRUCTION JOINTS. IN MAT AND SPREAD FOOTINGS, CONSTRUCTION JOINTS 3. MECHANICAL ATTIC = 80 PSF ARE PROHIBITED WITHOUT THE ENGINEER'S APPROVAL. 4. ROOF = 20 PSFDEPRESS FOUNDATION WALLS 8" AT DOOR OPENINGS, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR VERIFICATION F. <u>WIND LATERAL LIVE LOADS</u> ULTIMATE DESIGN WIND SPEED = 115 MPH OF DOOR OPENING LOCATIONS. RISK CATEGORY = II3. WIND EXPOSURE = C 7. SECURE WATER STOPS TO AVOID SHIFTING WHEN CONCRETE IS PLACED. 4. INTERNAL PRESSURE COEFFICIENT, $GC_{Pl} = \pm 0.18$ 5. COMPONENTS/CLADDING WIND PRESSURE: ZONE $1 = \pm 21.8$ PSF 8. COLUMN CENTERLINES AND PILE CAPS ARE LOCATED ON COLUMN CENTERLINES $ZONE 2 = \pm 37.9 PSF$ UNLESS NOTED OTHERWISE. ZONE 3 = $\pm 56.0$ PSF ZONE 4 = $\pm 25.8$ PSF ZONE 5 = $\pm$ 31.8 PSF IV. <u>CONCRETE</u> G. <u>SNOW LOADS</u> A. CAST-IN-PLACE CONCRETE GROUND SNOW LOAD, $P_G = 50 \text{ PSF}$ APPLICABLE SPECIFICATIONS SNOW EXPOSURE FACTOR, $C_E = 1.0$ a. STRUCTURAL CONCRETE: ACI 301 3. SNOW IMPORTANCE FACTOR, I = 1.0b. HOT WEATHER CONCRETING: ACI 305 4. THERMAL FACTOR, $C_{T} = 1.0$ c. COLD WEATHER CONCRETING: ACI 306 FLAT ROOF SNOW LOAD, $P_F = 35 PSF$ d. CONCRETE MIX: ACI 301 6. UNBALANCED, SLIDING AND DRIFTS PER ASCE 7-10 e. REINFORCEMENT LAP & EMBEDMENT LENGTH: ACI 318 f. REINFORCEMENT DETAILING: ACI 315 H. SEISMIC LATERAL LIVE LOADS g. WELDING REINFORCING STEEL: AWS D1.4 SEISMIC RISK CATEGORY = IIh. PORTLAND CEMENT CONCRETE: ASTM C150 SEISMIC DESIGN CATEGORY = Bi. AGGREGATE: ASTM C33 SITE CLASS = D REINFORCING STEEL: ASTM A615 IMPORTANCE FACTOR, $I_s = 1.0$ k. WELDED WIRE FABRIC, MIN. 70 KSI STRENGTH: ASTM A185 5. RESPONSE MODIFICATION FACTOR, R = 3.0I. EPOXY COATED REINFORCING STEEL: ASTM A775 SEISMIC RESPONSE COEFFICIENT, $C_S = 0.0365$ m. ADMIXTURES: ASTM C494 MAPPED SPECTRAL RESPONSE ACCELERATIONS: $S_S = 0.095$ ; $S_1 = 0.056$ n. AIR-ENTRAINING ADMIXTURES: ASTM C260 SPECTRAL RESPONSE COEFFICIENTS: $S_{DS} = 0.102$ ; $S_{D1} = 0.090$ o. READY-MIXED CONCRETE: ASTM C94 9. BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE. 2. INTERIOR AND FOUNDATION CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4,000 10. ANALYSIS USED: EQUIVALENT LATERAL FORCE PROCEDURE PSI AT 28 DAYS. I. <u>SERVICEABILITY DEFLECTION (L=STRUCTURAL COMPONENT SPAN LENGTH</u> 3. CONCRETE EXPOSED TO WEATHER SHALL HAVE A MINIMUM STRENGTH OF 4,000 PSI FLOOR: LIVE LOAD = L/360 2. ROOF: LIVE LOAD = L/240AT 28 DAYS, LIMESTONE AGGREGATE AND 4%-7% ENTRAINED AIR. TOTAL LOAD = L/240TOTAL LOAD = L/180**OVERVIEW** 4. MINIMUM CONCRETE COVER FOR REINFORCING STEEL: a. CAST AGAINST & PERMANENTLY EXPOSED TO EARTH: 3" b. FORMED SURFACES EXPOSED TO WEATHER OR IN CONTACT WITH SOIL: A. <u>Genera</u> ANY CHANGES TO THE STRUCTURAL DESIGN MUST HAVE WRITTEN APPROVAL FROM THE ENGINEER OR THE #5 BARS OR LESS: 1-1/2" #6 BARS OR GREATER: 2" CERTIFICATION MAY BE INVALIDATED. c. FORMED SURFACE NOT EXPOSED TO WEATHER: 1-1/2" 2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING SAFETY PRECAUTIONS AND REGULATIONS. d. FORMED SURFACES NOT EXPOSED TO WEATHER OR NOT IN CONTACT WITH SOIL: SLABS, WALLS, JOISTS: 3/4" BEAMS & COLUMNS - PRIMARY REINFORCEMENT: 1-1/2" 3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR METHODS, TECHNIQUES, SEQUENCING AND SUPERVISION 3. BEAMS & COLUMNS - TIES, STIRRUPS, SPIRALS: 1-1/2" OF THE WORK. 4. THESE DRAWINGS INDICATE GENERAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY 5. STEEL REINFORCING SHALL BE GRADE 60. TIES AND STIRRUPS SHALL BE GRADE 60. DETAILED, CONSTRUCTION SIMILAR TO THE DRAWING DETAILS SHALL BE USED, UNLESS NOTED OTHERWISE. 6. LAP CONTINUOUS REINFORCING STEEL WITH CLASS B SPLICES PER ACI 318, UNLESS 5. THE CONTRACTOR SHALL USE THESE DRAWINGS TOGETHER WITH THE DRAWINGS AND SPECIFICATIONS OF ALL NOTED OTHERWISE. PROVIDE MIN. LAP LENGTH PER TABLE ON THIS SHEET. OTHER DISCIPLINES ON THE PROJECT AND SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES THAT INTERFACE WITH THE STRUCTURAL WORK. 7. PROVIDE PLASTIC OR STAINLESS STEEL SUPPORTS FOR REINFORCING STEEL TO INSURE MINIMUM CONCRETE COVER. 6. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO 8. SET REINFORCING STEEL AND SECURE PRIOR TO PLACING CONCRETE. VERTICAL DESIGN, INSTALL AND INSPECT ADEQUATE AND SAFE TEMPORARY BRACING, SHORING, ETC. REQUIRED DURING DOWELS FOR MASONRY WALL REINFORCING MAY BE FLOATED IN PLACE. CONSTRUCTION UNTIL ALL STRUCTURAL WORK IS COMPLETED. 9. REINFORCING STEEL SHALL BE CONTINUOUS AT CORNERS, EXTEND WALL VERTICAL 7. THE CONTRACTOR SHALL COMPLY WITH THE SUPPLIER'S MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION SPECIFICATIONS FOR ALL STRUCTURAL SYSTEM COMPONENTS. REINFORCING INTO FOOTINGS AND PROVIDE DOWELS AS REQUIRED. 10. DO NOT FIELD BEND REINFORCING BARS EMBEDDED IN HARDENED CONCRETE. 8. THE CURRENT EDITIONS OF ASTM STANDARDS AND ALL REFERENCES SHALL APPLY UNLESS NOTED OTHERWISE. 9. DEMOLISHED ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE 11. WELDED WIRE FABRIC SHALL CONFORM TO THE SPECIFICATIONS IN THE "SLAB-ON-GRADE" SECTION OF THESE STRUCTURAL NOTES. SITE, UNLESS NOTED OTHERWISE. 12. CONCRETE SUPERSTRUCTURE FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE 10. DO NOT SCALE DRAWINGS. USE INDICATED DIMENSIONS ONLY. HAS OBTAINED AT LEAST 90% OF 28 DAY COMPRESSIVE STRENGTH. CONTRACTOR B. <u>SHOP DRAWINGS</u> SHALL BE RESPONSIBLE FOR SHORING AND RE-SHORING. THE GENERAL CONTRACTOR SHALL REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS AND SUBMIT A REVIEW STAMPED SET TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS WITHOUT A B. <u>SLAB-ON-GRADE</u> CONCRETE WORK SHALL CONFORM TO THE SPECIFICATIONS IN THE "CAST-IN-PLACE CONTRACTOR REVIEW STAMP WILL BE REJECTED BY THE ENGINEER. CONCRETE" SECTION OF THESE STRUCTURAL NOTES. 2. THE ENGINEER WILL REVIEW SHOP DRAWINGS ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE DRAWINGS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERRORS AND 2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 SPECIFICATIONS; BE SUPPLIED OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS. IN FLAT SHEETS, LAP ADJOINING PIECES BY AT LEAST ONE FULL MESH AND BE HELD IN PLACE AS NEEDED TO REMAIN IN THE PROPER POSITION WHEN CONCRETE IS PLACED. 3. THE ENGINEER SHALL REVIEW THE SHOP DRAWINGS IN ACCORDANCE WITH A SCHEDULE PRE-APPROVED BY THE ENGINEER; OR, IN THE ABSENCE OF A SCHEDULE, IN A MANNER DEEMED TIMELY BY THE ENGINEER. 3. PROVIDE ONE LAYER OF 6X6-W2.1XW2.1 WELDED WIRE FABRIC PLACED 1-1/2" CLEAR BELOW THE TOP OF THE SLAB, UNLESS NOTED OTHERWISE. 4. AS A MINIMUM, SUBMIT THE FOLLOWING APPLICABLE SHOP DRAWINGS FOR REVIEW: (1) CONCRETE MIX DESIGN 4. EXTERIOR SLABS TO BE UNREINFORCED UNLESS NOTED OTHERWISE. WHERE SPECIFICATIONS; (2) CONCRETE REINFORCING STEEL; (3) LOAD BEARING MASONRY REINFORCING STEEL; (4) REINFORCING IS NOTED, ALL EXTERIOR SLAB REINFORCING SHALL BE EPOXY COATED. STRUCTURAL STEEL; (5) STEEL JOISTS/GIRDERS; (6) METAL DECK; (7) WOOD TRUSSES; (8) LOAD BEARING COLD-FORMED STEEL FRAMING; (9) PRECAST CONCRETE. 5. POLYPROPYLENE FIBER REINFORCEMENT IS PROHIBITED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER. C. SPECIAL INSPECTIONS THE CONTRACTOR SHALL EMPLOY ONE OR MORE 3RD PARTY SPECIAL INSPECTORS WHO SHALL PROVIDE 6. PROVIDE 6 MIL POLYETHYLENE VAPOR BARRIER OVER 4" POROUS SUBGRADE OR INSPECTIONS AND MATERIALS TESTING DURING CONSTRUCTION. ALL SPECIAL INSPECTIONS AND TESTING SHALL POROUS FILL COMPACTED TO 95% STANDARD PROCTOR UNDER INTERIOR CONFORM TO THE REQUIREMENTS OF THE 2015 MICHIGAN BUILDING CODE (MBC). CONCRETE SLABS. 2. SPECIAL INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL BUILDING OFFICIAL. SPECIAL INSPECTIONS SHALL NOT RELIEVE THE OWNER AND CONTRACTOR FROM REQUESTING THE BUILDING 7. POROUS FILL SHALL BE CLEAN GRANULAR MATERIAL WITH 100% PASSING THROUGH A 1-1/2" SIEVE AND NO MORE THAN 5% PASSING THROUGH A NO. 4 SIEVE. OFFICIAL'S INSPECTIONS REQUIRED BY MBC SECTION 110. 3. SPECIAL INSPECTORS SHALL BE GIVEN PROPER NOTICE AND ACCESS TO THE SITE TO PERFORM TESTING AND 8. MAXIMUM JOINT SPACING SHALL BE 36 TIMES THE SLAB THICKNESS. SAWCUT JOINTS AS SOON AS POSSIBLE AFTER CONCRETE IS PLACED. DO NOT SPALL JOINT EDGES. INSPECTION AS NECESSARY. FILL SAWN JOINTS WITH EPOXY RESIN 4-6 WEEKS AFTER SLAB IS CAST. REMOVE DEBRIS FROM JOINTS PRIOR TO FILLING. 4. REQUIRED CATEGORIES OF SPECIAL INSPECTIONS: a. STEEL CONSTRUCTION (MBC SECTION 1705.2) 9. PROVIDE EXPANSION JOINTS BETWEEN EXTERIOR SLABS-ON-GRADE AND THE b. CONCRETE CONSTRUCTION (MBC SECTION 1705.3) c. MASONRY CONSTRUCTION (MBS SECTION 1705.4) BUILDING. d. SOILS (MBC SECTION 1705.6) 10. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DEPRESSED SLABS AND DRAINS. 5. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR: SLOPE SLAB TO DRAINS. a. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TOVERIFY THAT IT CONFORMS TO CONTRACT DOCUMENTS b. THE SPECIAL INSPECTOR SHALL NOT AUTHORIZE OR APPROVE DEVIATIONS FROM THE CONTRACT

**DESIGN BASIS** 

FOLLOWING DESIGN STANDARDS:

A. BUILDING CODE USED IN THE DESIGN OF THIS STRUCTURE: 2015 MICHIGAN BUILDING CODE.

B. THE EDITIONS REFERENCED IN THE BUILDING CODE LISTED ABOVE SHALL APPLY FOR THE

DOCUMENTS. ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS MUST BE INITIATED BY THE CONTRACTOR VIA A WRITTEN REQUEST FOR INFORMATION (RFI) AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH WORK. C. THE SPECIAL INSPECTOR SHALL FURNISH WRITTEN INSPECTION REPORTS TO THE THE CONTRACTOR FOR

CORRECTION. IF CORRECTIONS ARE NOT MADE, THE BUILDINGOFFICIAL AND ENGINEER AND/OR ARCHITECT SHALL BE NOTIFIED.

# V. <u>STEEL</u>

1. FOOTINGS SHALL BEAR ON UNDISTURBED, FIRM, NATURAL SOIL OR COMPACTED FILL CAPABLE OF SUPPORTING THE MINIMUM SOIL BEARING PRESSURE SPECIFIED IN THE "DESIGN BASIS" SECTION OF THESE STRUCTURAL NOTES. A GEOTECHNICAL ENGINEER/TESTING AGENCY SHALL EVALUATE FOUNDATION EXCAVATIONS PRIOR TO

III. FOUNDATIONS

A. <u>GENERA</u>

- A. STRUCTURAL STEEL APPLICABLE SPECIFICATIONS (FY=MINIMUM YIELD STRENGTH
  - a. W Shapes, Min. FY = 50 KSI: ASTM A992 b. HSS ROUND SHAPES, MIN FY = 42 KSI; ASTM A500, GRADE B
  - c. HSS RECTANGULAR SHAPES, MIN. FY = 46 KSI: ASTM A500, GRADE B
  - d. M, S, C, MC, L SHAPES, MIN. FY = 36 KSI: ASTM A36 e. HP SHAPES, MIN. FY = 50 KSI: ASTM A572, GRADE 50
  - f. BEARING PLATES, MIN. FY = 36 KSI: ASTM A36
  - g. ANCHOR BOLTS: ASTM F1554, GRADE 36 h. HIGH STRENGTH BOLTS, MIN. ULTIMATE STRENGTH, FU = 120 KSI: ASTM A325
  - THREADED RODS, MIN. FY = 36 KSI: ASTM A36
  - NON-SHRINK GROUT, MIN. 8,000 PSI STRENGTH: ASTM C1107 k. STRUCTURAL STEEL CONSTRUCTION: AISC, TYPE 2
  - I. HOT-DIP GALVANIZING: ASTM A153 m. Welding, Min. FY = 58 KSI For Filler Material: AWS D1.1
- 2. STEEL FABRICATOR SHALL MAINTAIN DETAILED QUALITY CONTROL PROCEDURES AS
- REQUIRED BY THE SPECIAL INSPECTION SPECIFICATIONS OF THE INTERNATIONAL BUILDING CODE.
- CONNECTIONS SHALL BE SHEAR TYPE UNLESS NOTED OTHERWISE AND DESIGNED BY THE FABRICATOR FOR SHEAR LOADS INDICATED ON THESE DRAWINGS IN ACCORDANCE WITH THE AISC SPECIFICATIONS DESIGNATED IN THE "DESIGN BASIS" SECTION OF THESE STRUCTURAL NOTES.
- 4. COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. ARE DESIGNED FOR THE FINAL LOADING CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS DURING ERECTION AND CONSTRUCTION. THIS INVESTIGATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 5. MOMENT CONNECTIONS ARE DENOTED WITH THE SYMBOL 🕨 ON THESE DRAWINGS THE FABRICATOR SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR ALL SPECIAL CONNECTIONS, INCLUDING MOMENT CONNECTIONS. CALCULATIONS SHALL BE CERTIFIED BY AN ENGINEER REGISTERED IN THE STATE WHERE INSTALLED.
- 6. BOLTS SHALL BE SNUG-FIT SHEAR/BEARING TYPE WITH MINIMUM 3/4" DIAMETER, UNLESS NOTED OTHERWISE.
- 7. A CERTIFIED WELDER SHALL PERFORM ALL WELDING WORK. USE E70XX ELECTRODES FOR WELDING, UNLESS NOTED OTHERWISE. PROVIDE CONTINUOUS MINIMUM SIZED FILLET WELDS IN ACCORDANCE WITH AISC SPECIFICATIONS. TOUCH UP WELDED CONNECTIONS WITH ZINC RICH PRIMER.
- DRILL OR PUNCH HOLES IN STEEL. PROVIDE SMOOTH EDGES FOR SLOTTED HOLES. BURNING AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.
- 9. SHOP PAINT STRUCTURAL STEEL WITH ONE COAT OF RUST INHIBITIVE ALKYD PRIMER, UNLESS NOTED OTHERWISE.
- 10. HOT-DIP GALVANIZE STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING BRICK SHELF ANGLES AND LINTELS AT EXTERIOR OPENINGS.
- 11. FIELD REPAIR PERMANENT COATINGS DAMAGED DURING TRANSPORT, ERECTING AND FIELD WELDING TO MATCH THE SHOP APPLIED COATING.
- 12. THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE TEMPORARY GUYING AND BRACING. 13. PROVIDE ANGLE FRAMES AT ROOF OPENINGS AND ROOFTOP MECHANICAL UNITS IN
- ACCORDANCE WITH DETAILS PROVIDED IN THESE DRAWINGS. B. STEEL JOISTS & JOIST GIRDERS STEEL JOIST INSTITUTE (SJI) STANDARDS AND SPECIFICATIONS SHALL APPLY FOR THE DESIGN, FABRICATION, AND ERECTION OF STEEL JOISTS AND GIRDERS, INCLUDING
- JOIST BRIDGING AND SHOP PAINTING. 2. JOIST AND GIRDER MANUFACTURERS SHALL BE SJI CERTIFIED AND MAINTAIN
- APPROVED FABRICATION PROCEDURES AS REQUIRED BY THE SPECIAL INSPECTION SPECIFICATIONS OF THE INTERNATIONAL BUILDING CODE.
- 3. PRIOR TO FABRICATION, THE JOIST MANUFACTURER SHALL SUBMIT CALCULATIONS TO THE ENGINEER FOR SPECIAL JOISTS AND ALL JOIST GIRDERS, CERTIFIED BY A PROFESSIONAL IN THE STATE WHERE INSTALLED FOR RECORD PURPOSES.
- PROPERLY ANCHOR JOISTS AT BEARINGS. REFER TO ANY DETAILS IN THESE DRAWINGS.
- 5. COMPLETELY INSTALL JOIST BRIDGING AND CONNECTIONS PRIOR TO PLACING ANY CONSTRUCTION LOADS ON THE JOISTS. CONSTRUCTION LOADS SHALL NOT EXCEED JOIST DESIGN LOAD.

# V. STEEL CONT.

- AT STANDING SEAM ROOFS, PROVIDE ADDITIONAL BRIDGING TO ADEQUATELY BRACE TOP CHORDS AGAINST LOADS ON THE JOISTS. CONSTRUCTION LOADS SHALL NOT EXCEED JOIST DESIGN LOAD.
- DESIGN ROOF JOISTS AND GIRDERS FOR A NET WIND UPLIFT AS SPECIFIED ON THESE DRAWINGS. MANUFACTURER SHALL PROVIDE BOTTOM CHORD BRACING FOR JOISTS AS REQUIRED TO RESIST WIND UPLIFT.
- 8. JOIST ON COLUMN CENTERLINES SHALL HAVE EXTENDED BOTTOM CHORD CONNECTIONS. REFER TO ANY DETAILS IN THESE DRAWINGS. DO NOT CONNECT BOTTOM CHORD EXTENSION TO STABILIZER PLATE.
- 9. ATTACH FIELD INSTALLED MEMBERS AT CONCENTRATED LOADS NOT OCCURING AT PANEL POINTS.
- 10. INSTALL ADDITIONAL JOISTS UNDER PARTITIONS RUNNING PARALLEL TO JOISTS.
- C. LOAD BEARING COLD-FORMED STEEL FRAMING AMERICAN IRON AND STEEL INSTITUTE (AISI) "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" SHALL APPLY FOR THE DESIGN, FABRICATION AND ERECTION OF COLD-FORMED STEEL FRAMING MEMBERS INCLUDING BRIDGING FOR STUDS AND WEB STIFFENERS AT JOIST AND RAFTER BEARINGS.
- FORM FRAMING MEMBERS FROM STEEL CONFORMING TO ASTM A653 WITH A MINIMUM YIELD STRENGTH OF 50 KSI, UNLESS NOTED OTHERWISE.
- 3. FASTENING OF STRUCTURAL MEMBERS SHALL BE MADE WITH SELF TOPPING SCREWS OR ADEQUATELY SIZED WELDS.
- 4. WELDING SHALL CONFORM TO AWS D1.3. TOUCH UP WELDS WITH ZINC RICH PRIMER 5. PROVIDE THE MANUFACTUER'S STANDARD TRACKS, CLIP ANGLES, BRACING,
- REINFORMENT, FASTENERS, AND ACCESORIES AS RECOMMENDED FOR THE APPLICATION INDICATED.
- 6. CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ENGINEER a. MANUFACTURER'S PRODUCT AND MOST CURRENT TECHNICAL DATA b. ERECTION DRAWINGS WITH THE FRAMING MEMBER QUANTITY, TYPE, LOCATION AND SPACING, CLEARLY SHOWING ALL CONNECTIONS AND ATTACHMENTS. c. PROPERTIES DEMONSTRATING CONFORMANCE WITH SPECIFICATIONS IN THESE NOTES OF FRAMING MEMBERS USED IN LOAD BEARING APPLICAITONS.
- 7. TRACK GAGE SHALL NOT BE LIGHTER THAN THE FRAMING BEING CONNECTED. CONNECT TRACKS TO CONCRETE WITH 0.205 INCH DIAMETER POWER DRIVEN FASTENERS SPACED AT 16 INCHED ON CENTER WITH 1.25 INCH EMBEDMENT, UNLESS NOTED OTHERWISE.
- AXIALLY LOADES STUDS SHALL HAVE FULL BEARING AGAINST THE INSIDETRACK WEB PRIOR TO STUD AN DTRACK ALIGNMENT. SPLICES IN AXIALLY LOADED STUDS ARE NOT PFRMITTED.
- 9. PROVIDE DOUBLE JACK STUDS AT BEAM BEARINGS, UNLESS NOTED OTHERWISE
- D. PRE-ENGINEERED COLD FORMED STEEL TRUSSES THE CONTRACTOR SHALL EMPLOY A STRUCTURAL ENGINEER LISCENSED IN THE STATE WHERE THE TRUSSED ARE BEING INSTALLED TO DESIGN ALL ASPECTS OF THE TRUSSES, INCLUDING MEMBER SIZES, GAGES, CONNECTIONS, BRACING, WEB STIFFENERS, ETC.
- 2. DESIGN METAL TRUSSES IN ACCORDANCE WITH AISI PROVISIONS TO SUPPORT THE LOADS SPECIFIED IN THE "DESIGN BASIS" SECTION OF THESE STRUCTURAL NOTES.
- 3. THE "LOAD BEARING COLD-FORMED STEEL" SECTION OF THESE STRUCTURAL NOTES SHALL APPLY TO FRAMING MEMBERS.
- 4. MAXIMUM LIVE LOAD DEFLECTION IS LIMITED TO L/360. (L=SPAN LENGTH OF INDIVIDUAL STRUCTURAL COMPONENT.)
- CONTRACTOR SHALL SUBMIT SHOP DRAING TO THE ENGINEER CERTIFIED BY A PROFESSIONAL ENGINEER LISCENSED IN THE STATE WHERE INSTALLED WITH CALCULATIONS. MEMBER SIZES, GAE, YIELD STRENGTH, CONNECTIONS, SPAN, CAMBER, DIMENSIONS, CHORD PITCH, AND DESIGN LOADS.
- 6. CONTRACTOR SHALLL RECT TRUSSES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND SHALL PROVIDE TEMPORARY AND PERMANENT BRACING.
- E. METAL ROOF & FLOOR DECK AMERICAN STEEL DECK INSTITUTE "DESIGN MANUAL FOR COMPOSITE DECKS, FORM
- DECKS AND ROOF DECKS" SHALL APPLY FOR THE MANUFACTURING AND ERECTION OF METAL DECK.
- 2. CONCRETE TOPPING SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI WITH MAXIMUM 1/2 INCH AGGREGATE SIZE AND MAXIMUM 4 INCH SLUMP, UNLESS NOTED OTHERWISE.
- WELDING SHALL BE IN ACCORDANCE WITH AWS D3.1 SPECIFICATIONS. PROVIDE WELDING WASHERS FOR FLOOR DECK WELDS. TOUCH UP DECK WELDS WITH PAINT.
- 4. CONTRACTOR TO SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION WITH LAYOUT, DECK TYPES, CONNECTION DETAILS AND OTHER RELATED ITEMS.
- 5. DECK SHALL NOT SUPPORT SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS AND OTHER PERMANENT SUSPENDED LOADS.
- 6. PAINT FLOOR DECK. CONFIRM WITH ENGINEER WHETHER ROOF DECK SHALL BE PAINTED OR GALVANIZED.
- CONNECT ROOF DECK AS SHOWN IN THESE DRAWINGS. AT ENDS OF CANTILEVERS, ATTACH ROOF DECK SIDELAPS AT A MAXIMUM SPACING OF 12 INCHES ON CENTER. COMPLETELY ATTACH ROOF DECK TO SUPPORTS AND AT SIDELAPS PRIOR TO APPLYING ANY LOAD TO THE CANTILEVER.

MINIMUM RE	MINIMUM REINF. BAR LAP LEGTHS TABLE								
REBAR SIZE	VERT. BARS	HORIZ. BARS							
#3	19"	25"							
#4	25"	33"							
#5	31"	41"							
#6	37"	49"							

#### WOOD VI.

A. WOOD FRAMING MATERIAL SHALL BE SURFACE DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT. ALLOWABLE STRESS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THIS SECTION.

2. UNLESS NOTED OTHERWISE, JOISTS, RAFTERS EXTERIOR WALL STUDS, LOAD BEARING INTERIOR WALL STUDS AND MISCELLANEOUS FRAMING SHALL BE NO. 1 GRADE SOUTHERN YELLOW PINE OR BETTER WITH THE FOLLOWING MINIMUM PROPERTIES FOR MEMBERS 2-4 INCHES THICK:

Width	Fb	Ft	Fv	Fc, parallel	Fc, perp.	E
2–4 inches	1,500 psi	1,000 psi	175 psi	1,650 psi	565 psi	1,600 psi
5–6 inches	1,350 psi	875 psi	175 psi	1,550 psi	565 psi	1,600 psi
8 inches	1,250 psi	800 psi	175 psi	1,500 psi	565 psi	1,600 psi
10 inches	1,050 psi	700 psi	175 psi	1,450 psi	565 psi	1,600 psi
12 inches	1,000 psi	650 psi	175 psi	1,400 psi	565 psi	1,600 psi

3. PRESSURE TREAT FRAMING EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS. WHERE POSSIBLE, COMPLETE CUTS AND HOLES PRIOR TO TREATMENT. FOR ON-SITE FABRICATION, BRUSH CUTS AND HOLES WITH TWO COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING MINIMUM 2% METALLIC COPPER IN ACCORDANCE WITH AWWA STD. M4.

4. FOR 2 INCH NOMINAL LOAD BEARING FRAMING, WIDE FACE LENGTH OF SPLIT SHALL BE LIMITED TO LESS THAN 1/2 OF THE WIDE FACE DIMENSION, FOR 3 INCH NOMINAL OR THICKER LOAD BEARING FRAMING, WIDE FACE LENGTH OF SPLIT SHALL BE LIMITED TO LESS THAN 1/2 OF THE NARROW FACE DIMENSION.

### 5. PREFABRICATED LAMINATED VENEER LUMBER (LVL) FRAMING FOR HEADERS AND BEAMS SHALL BE "2.0E MICROLLAM LVL" WITH THE FOLLOWING MINIMUM PROPERTIES

G	E	Emin	Fb	Ft	Fc,perp.	Fc,parallel	Fv	SG
(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	
125,000	2.0x10 ⁶	1,016,535	2,600	1,555	750	2,510	285	0.50

#### 6. PREFABRICATED PARALLEL STRAND LUMBER (PSL) FRAMING FOR HEADERS AND BEAMS SHALL BE "2.0E PARALLAM PSL" WITH THE FOLLOWING MINIMUM PROPERTIES:

G (psi)	E (psi)	Emin (psi)	Fb (psi)	Ft (psi)	Fc,perp. (psi)	Fc,parallel (psi)	Fv (psi)	SG
125,000	2.0x10 ⁶	1,016,535	2,900	2,025	625	2,900	290	0.50

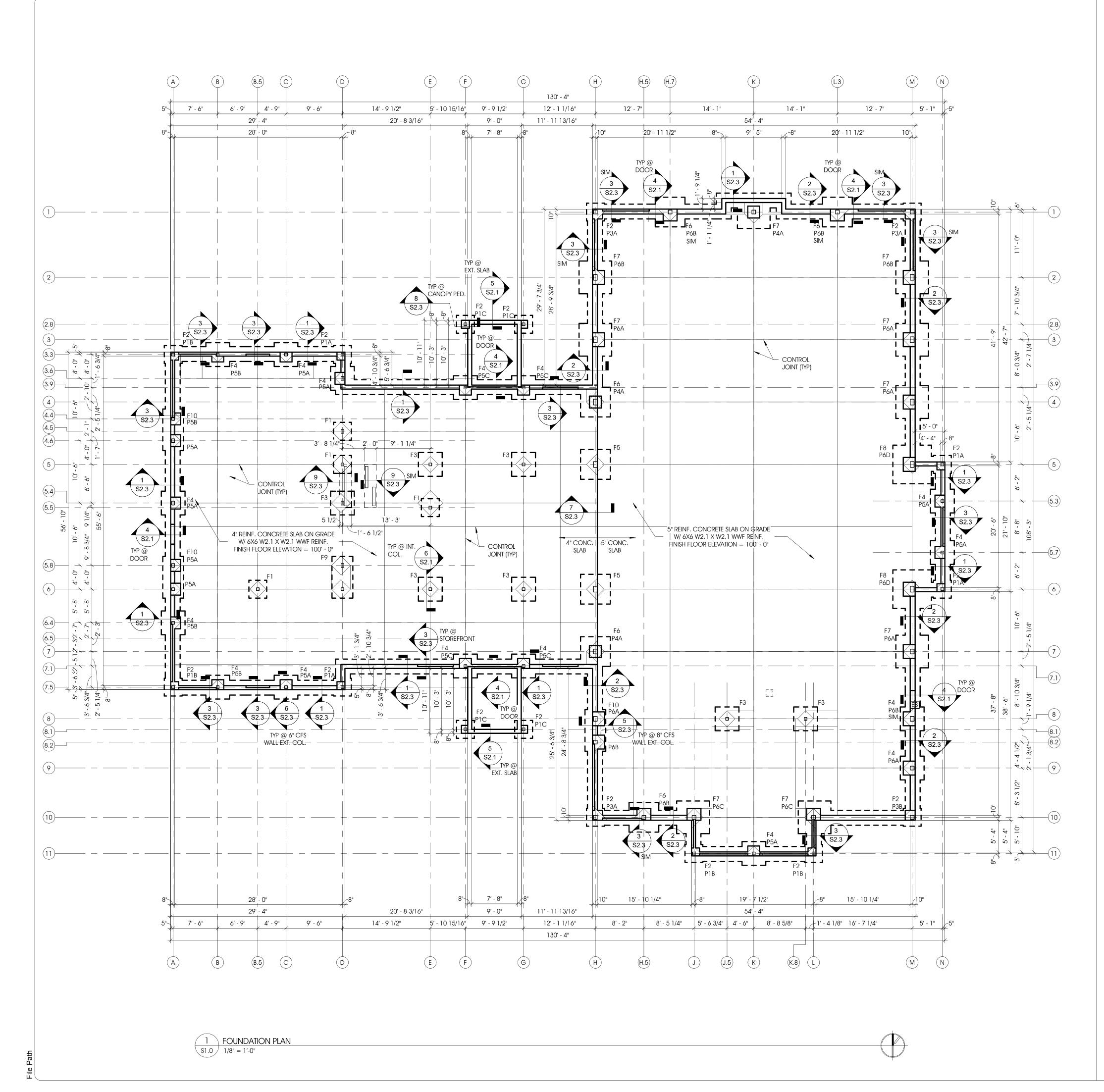
7. PREFABRICATED PARALLEL STRAND LUMBER (PSL) FRAMING FOR COLUMNS SHALL BE "1.8E PARALLAM PSL" WITH THE FOLLOWING MINIMUM PROPERTIES

G	E	Emin	Fb	Ft	Fc,perp.	Fc,parallel	Fv	SG
(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	
112,500	1.8x10 ⁶	914,880	2,400	1,755	545	2,500	190	0.50

- 8. EXTERIOR PREFABRICATED LUMBER FRAMING SHALL BE "PARALLAM PLUS PSL" TREATED TO RESIST FUNGAL DECAY AND TERMITE ATTACK.
- 9. DO NOT CUT OR NOTCH LVL AND PSL FRAMING WITHOUT THE MANUFACTURER'S APPROVAL.
- 10. PROVIDE DOUBLE JOISTS UNDER PARTITIONS THAT ARE PARALLEL TO THE JOISTS AND UNDER CONCENTRATED LOADS FROM THE FRAMING ABOVE.
- 11. FRAME AROUND PLYWOOD DECK OPENINGS WITH HEADER BEAMS EQUAL TO THE JOIST/RAFTER MEMBER SIZE, UNLESS NOTED OTHERWISE
- 12. HOLES AND NOTCHES CUT OR DRILLED INTO WOOD FRAMING SHALL BE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE REQUIREMENTS.
- 13. HOT DIP GALVANIZE PLATES, ANCHORS, BOLTS, NAILS, NUTS WASHERS AND OTHER MISCELLANEOUS HARDWARE.
- 14. PROVIDE A STEEL BASE PLATE AT COLUMNS TO PREVENT MOISTURE TRANSMISSION.
- 15. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD DOWN ANCHORS AND OTHER ACCESSORIES SHALL BE MANUFACTURED BY "SIMPSON STRONG-TIE" OR APPROVED EQUAL. INSTALL ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. STEEL SHALL BE ASTM GRADE A STEEL, 0.04 INCHES OR GREATER IN COATED THICKNESS AND HAVE A G60 GALVANIZED COATING IN ACCORDANCE WITH ASTM A653.
- B. <u>PLYWOOD SHEATHING</u> SPECIFICATIONS OF THE APA-THE ENGINEERED WOOD ASSOCIATION SHALL APPLY FOR PLYWOOD CONSTRUCTION.
- 2. UNLESS NOTED OTHERWISE, <u>ROOF PANEL SHEATHING</u> SHALL BE APA RATED SHEATHING PERFORMANCE CATEGORY 19/32, SPAN RATING 40/20, EXPOSURE 1 CONNECTED WITH 10D COMMON NAILS (MIN. 0.148 INCH DIA.) SPACED AT 6 INCHES ON CENTER AT SUPPORTED PANEL EDGES AND INTERMEDIATE SUPPORTS. USE PANEL CLIPS OR BLOCKING BETWEEN FRAMING FOR SUITABLE EDGE SUPPORT.
- 3. UNLESS NOTED OTHERWISE, <u>FLOOR PANEL SHEATHING</u> SHALL BE APA RATED SHEATHING PERFORMANCE CATEGORY 23/32, SPAN RATING 48/24, EXPOSURE 1 WITH TONGUE AND GROOVE EDGES, CONNECTED WITH 10D COMMON NAILS (MIN. 0.148 INCH DIA.) SPACED AT 6 INCHES ON CENTER AT SUPPORTED PANEL EDGES AND INTERMEDIATE SUPPORTS. FIELD GLUE SHALL BE IN ACCORDANCE WITH APA SPECIFICATION AFG-01 APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 4. UNLESS NOTED OTHERWISE, WALL PANEL SHEATHING SHALL BE APA RATED SHEATHING PERFORMANCE CATEGORY 15/32, SPAN RATING 32/16, EXPOSURE 1, CONNECTED WITH 8D COMMON NAILS (MIN. 0.131 INCH DIA.) SPACED AT 6 INCHES ON CENTER AT SUPPORTED PANEL EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. FIELD GLUE SHALL BE IN ACCORDANCE WITH APA SPECIFICATION AFG-01 APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. USE BLOCKING BETWEEN FRAMING FOR EDGE SUPPORT.
- 5. INSTALL PLYWOOD SHEATHING WITH THE LONG DIMENSION SPANNING ACROSS SUPPORTS AND CONTINUOUS OVER TWO OR MORE SPANS. STAGGER PANEL END JOINTS. ALLOW 1/8 INCH SPACING UNLESS RECOMMENDED OTHERWISE BY SHEATHING MANUFACTURER.
- 6. DO NOT OVERDRIVE NAILS. THE USE OF STAPLES AND PNEUMATIC GUNS IS PROHIBITED.
- 7. PROVIDE 2X BLOCKING AT UNSUPPORTED PANEL EDGES IN ROOFS, FLOORS AND SHEAR WALLS.



NO.



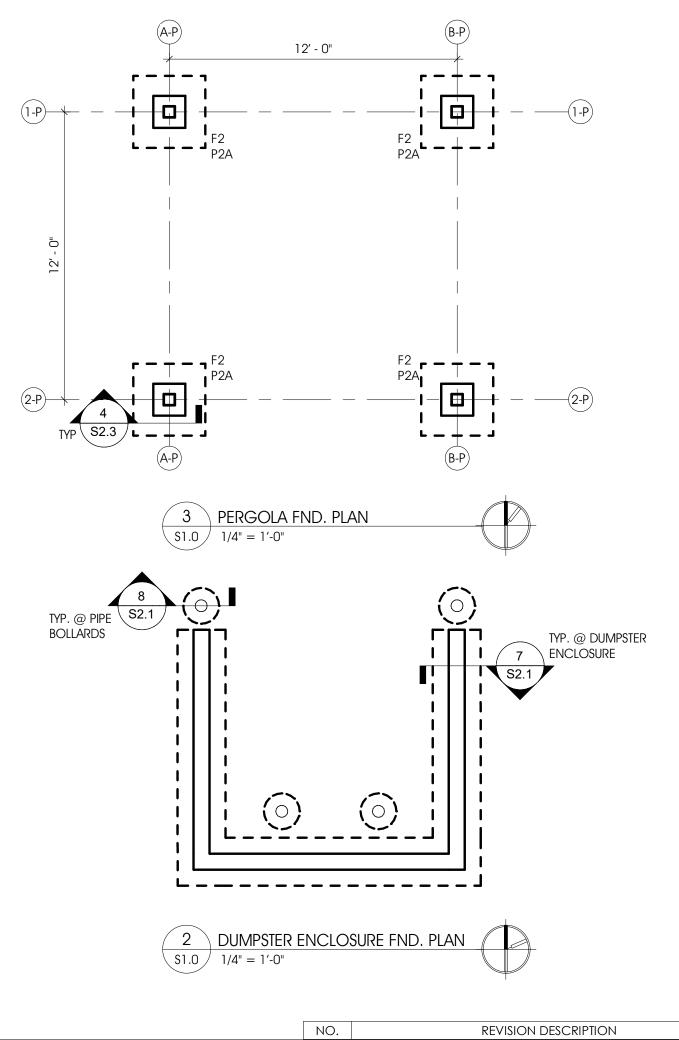
<u>GENERAL NOTES</u>

PLAN FOR LOCATION) WITH 6x6 - W2.1xW2.1 WWF REINFORCING, LOCATE 1-1/2" CLEAR BELOW TOP OF SLAB U.N.O.

3. DESIGN BASED ON SOIL BEARING CAPACITY OF 2000 PSF, SEE S0.1 FOR FURTHER DESIGN SPECIFICATIONS.

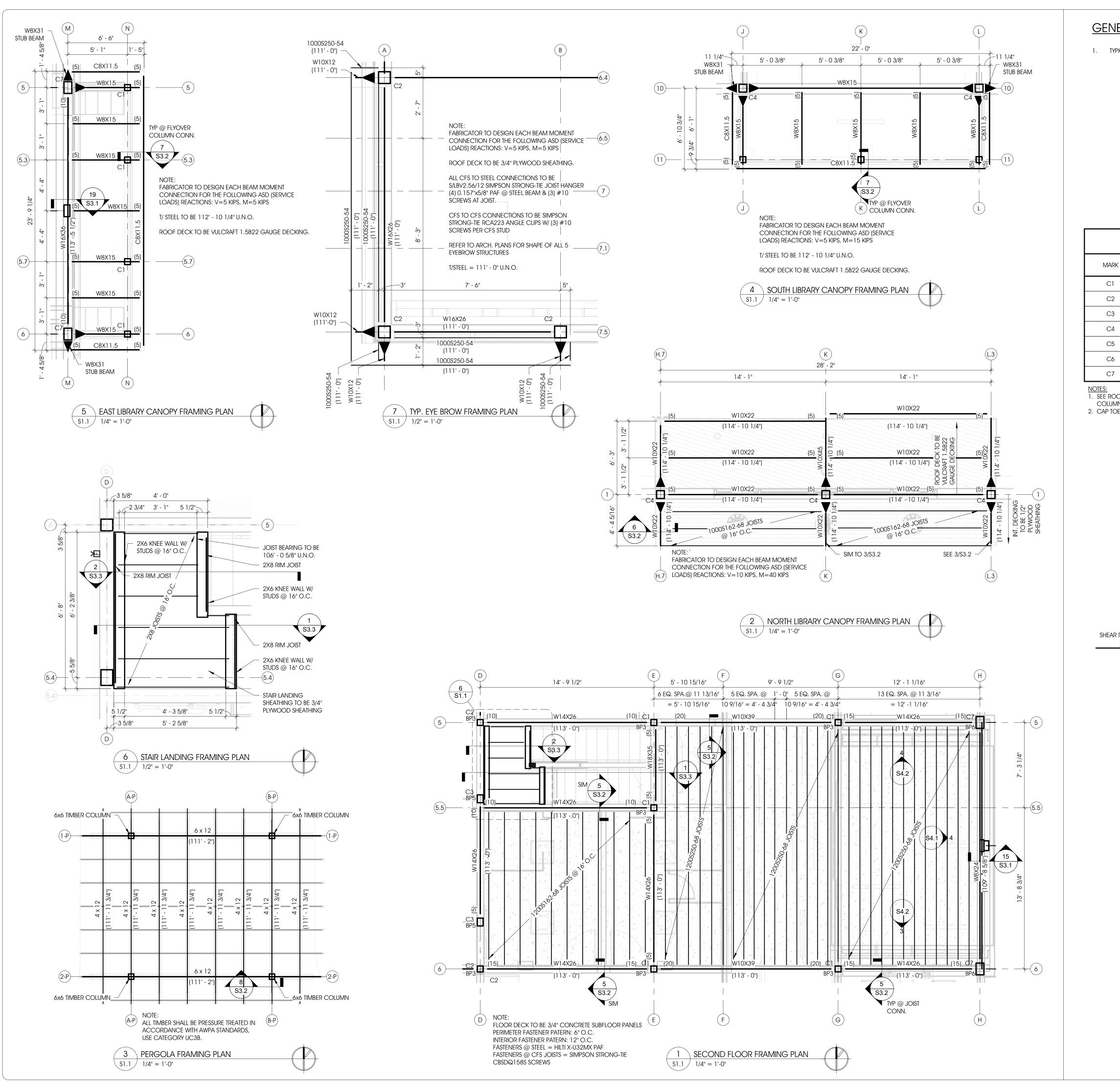
	FOOTING SCHEDULE						
Mark	DIMENSIONS	THICK	LOCATION	t/ftg. Elev.	TOP REINF.	BOT. REINF.	QNT
F1	3'-0X3'-0"	12"	4.5/D, 5/D, 5.5/E, 6/B.5	99'-4"	-	#5@10"E.W.	4
F2	3'-0X3'-0"	12"	1P/AP, 1P/BP, 2P/AP, 2P/BP, 1/H, 1/M, 2.8/F, 2.8/G, 3.3/A, 3.3/D, 5/N, 6/N, 7.5/A, 7.5/D, 8.1/F, 8.1/G, 10/M, 10/H, 11/J, 11/L	97′-0"	-	#5 @ 10" E.W.	20
F3	4'-0X4'-0"	12"	5/E, 5/G, 5.4/D, 6/E, 6/G, 8/J.5, 8/5.8	99'-4"	-	#5@11"E.W.	7
F4	4'-0X4'-0"	12"	3.3/B, 3.3/C, 3.6/D, 3.9/F, 3.9/G, 4.6/A, 5.3/N, 5.4/A, 5.7/N, 7.1/F, 7.1/G, 7.5/B, 7.5/C, 8/M, 9/M, 11/K	97′-0"	-	#5@11"E.W.	16
F5	5'-0X5'-0"	12"	5/H, 6/H	99'-4"	-	#5 @ 11" E.W.	2
F6	5'-0X5'-0"	12"	1/H.7, 1/L.3, 4/H, 7/H, 10/H.5	97'-0"	-	#5 @ 11" E.W.	5
F7	5′-6X5′-6"	12"	1/K, 2/H, 2/M, 3/H, 3/M, 4/M, 7/M, 11/J, 11/L	97′-0"	-	#5@12"E.W.	9
F8	6′-6X6′-6"	12"	5/M, 6/M	97′-0"	-	#5 @ 12" E.W.	2
F9	3'-6X7'-0"	12"	5.8,G/D	99′-4"	#5 @ 8" E.W.	#5 @ 8 E.W.	1
F10	3'-6X7'-0"	12"	4.4,4.6/A, 5.8,6/A, 8,8.2/H	97′-0"	#5 @ 8" E.W.	#5 @ 8 E.W.	3

PEDESTAL SCHEDULE					
MARK	SIZE	VERT. REINF.	HORIZ. REINF.	QNTY.	T/PEDESTAL ELEV.
P1A-B	16"x16"	(10) #5 DOWELS	#4 TIES @ 8" O.C.	8	99′-4"
P1C	16"x16"	(10) #5 DOWELS	#4 TIES @ 8" O.C.	4	SEE CIVIL
P2A	16"x16"	(6) #4 DOWELS	#4 TIES @ 8" O.C.	4	SEE CIVIL
РЗА-В	20"x20"	(16) #5 DOWELS	#4 TIES @ 8" O.C.	4	99′-4"
P4A	24"x24"	(20) #5 DOWELS	#4 TIES @ 8" O.C.	3	99′-4"
P5A-C	20"x24"	(16) #5 DOWELS	#4 TIES @ 8" O.C.	18	99′-4"
P6	24"x28"	(22) #5 DOWELS	#4 TIES @ 8" O.C.	16	99′-4"



1. ALL SLABS ON GRADE TO BE AT FINISH FLOOR ELEVATION 100' - 0" = 824.00' U.N.O. 2. ALL INTERIOR CONCRETE SLABS ON GRADE TO BE 4" OR 5" THICK CONCRETE (SEE

IMARCHE	Benton Harbor Goshen Grand Haven Hobart Grand Rapids Lafayette Kalamazoo/Portage South Bend Fort Wayne Valparaiso Engineering, Architecture, Land Surveying
	<ul> <li>315 W JEFFERSON BLVD</li> <li>South Bend, IN 46601</li> <li>T 574.232.8700</li> <li>F 574.251.4440</li> <li>dbonmarche.com</li> <li>copyreicht 2020 - ABONMARCHE CONSULTANTS, INC.</li> </ul>
PROJECT: NEW CONSTRUCTION FOR:	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH 26977 W. MAIN STREEET, EDWARDSBURG, MI
	FOUNDATION PLAN
LICEUSED APO SIGNATURE DATE: 12/20 HARD COP 24" x 36 SCALE(S GRAPHIC	JMO BY: JMO : SFL VIEW: SFL 12/20/2023 OF M/C/H/C SCOTT NCIS LEBLANG ENGINEER No. 201067898
ACI JOB # <b>22</b> SHEET NO.	-1836



# GENERAL NOTES

1. TYPICAL TOP OF STEEL ELEVATION NOTED ON PLANS.

	COLUMN	SCHEDULE	-					
<	SHAPE	BASE PLATE	BRG. ELEV.					
	HSS6X6X5/16	SEE PLAN	99′-4"					
	HSS6X6X3/8	SEE PLAN	99′-4"					
	HSS8X6X3/8	SEE PLAN	99′-4"					
	HSS8X8X3/8	SEE PLAN	99′-4"					
	HSS10X8X3/8	SEE PLAN	99′-4"					
	HSS12X6X3/8	SEE PLAN	99′-4"					
	HSS12X8X3/8	SEE PLAN	99′-4"					

 <u>NOTES:</u>
 SEE ROOF FRAMING PLAN (\$1.2) FOR BASE PLATE CALL-OUTS EA. COLUMN. SEE SHEET \$3.1 FOR BASE PLATE DETAILS.
 CAP TOES OF ALL COLUMNS W/ MIN. 3/8" CAP PLATE U.N.O. IN DETAILS.

# BEAM KEY PLAN

SHEAR REACTION (KIPS ASD)

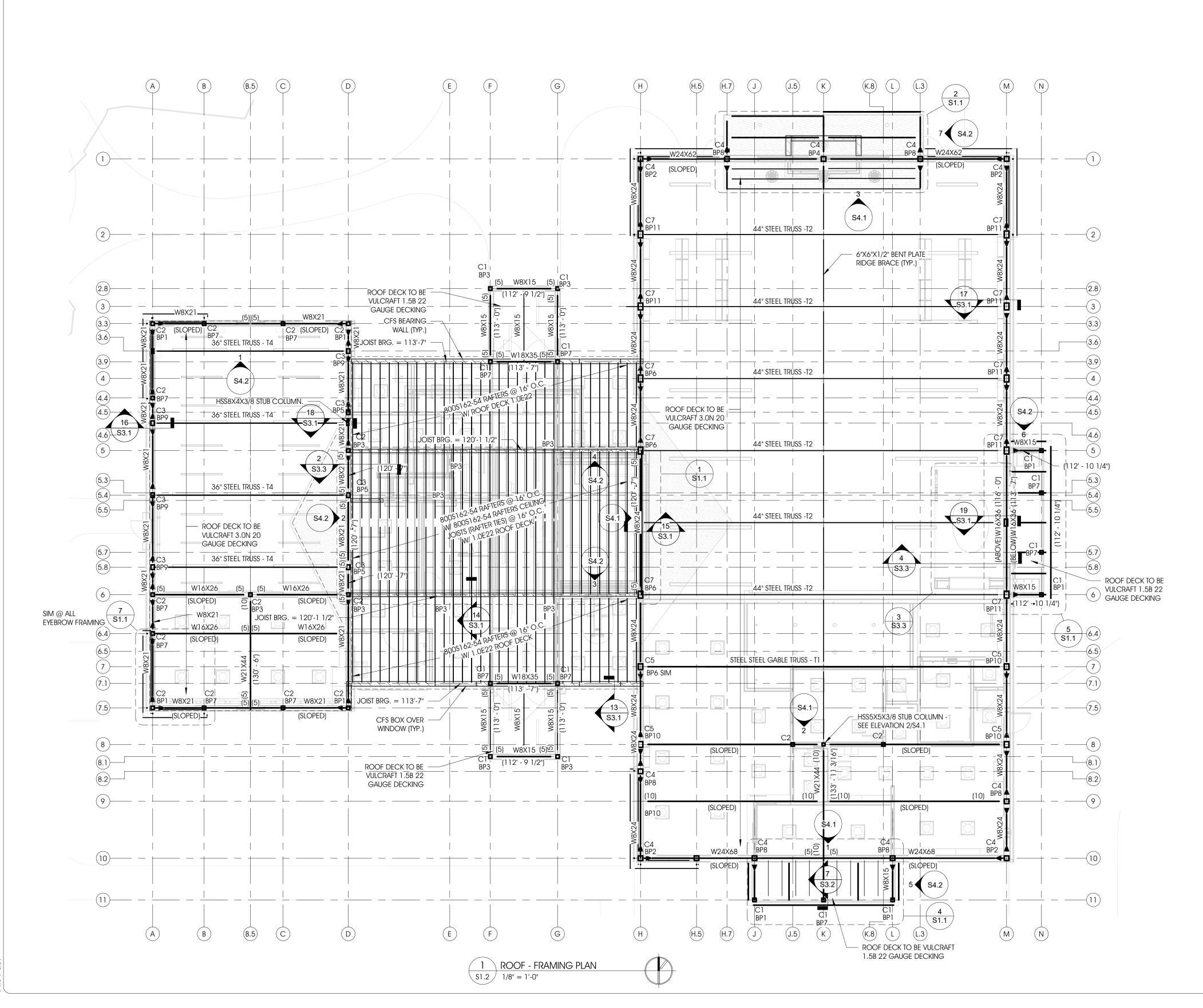
SHAPE (T.O.S. ELEVATION)

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**REVISION DESCRIPTION** 

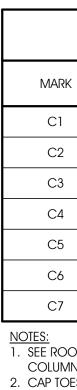
SHEAR REACTION (KIPS ASD)

SIGNATURE DATE: 12/20 HARD COP 24" x 36		PROJECT: NEW CONSTRUCTION FOR:		AARCHE
BY: I VIEW: 12 OF M/C SCOTT VCIS LEBLA ENGINEER No. 201067898 PFESSION COTO SCOTT VIEW: OF M/C SCOTT SCOTT VIEW: OF M/C SCOTT VIEW: OF M/C SCOTT VIEW: OF M/C SCOTT VIEW: OF M/C SCOTT VIEW: OF M/C SCOTT VIEW: OF M/C SCOTT VIEW: OF M/C SCOTT VIEW: OF M/C SCOTT VIEW: SCOTT VIEW: OF M/C SCOTT VIEW: OF M/C SCOTT VIEW: OF M/C SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT VIEW: SCOTT SCOTT VIEW: SCOTT SCOTT VIEW: SCOTT	PARTIAL FRAMING PLANS	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH	315 W JEFFERSON BLVD South Bend, IN 46601 <b>T</b> 574.232.8700	Benton Harbor Goshen Grand Haven Hobart Grand Rapids Lafayette
J 2/20/2 All CAN All C		26977 W. MAIN STREEET,	F 574.251.4440 abonmarche.com	Kalamazoo/Portage South Bend Fort Wayne Valparaiso
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# GENERAL NOTES

1. TYPICAL TOP OF STEEL ELEVATION NOTED ON PLANS.

2. T/STEEL @ MULTIPURPOSE ROOM = 116' - 31/4" U.N.O.

3. T/STEEL @ LIBRARY = 116' - 1 3/4" U.N.O.

4. SEE 1/S3.1 FOR HORIZONTAL W8 MOMENT CONNECTIONS U.N.O.

5. HEADER IN EXTERIOR WALLS <= 7'-0" TO BE (2) 600S162-54 (TOE TO TOE) WITH (2) 600S200-68 JACK STUDS AND (1) 600S200-68. HEADER IN EXTERIOR WALLS >= 7'-0" BUT <= 11'-0" TO BE (2) 600\$200-68 (TOE TO TOE) WITH (2) 600\$200-68 JACK STUDS AND (2) 600\$200-68.>

6. BEARING WALLS @ MECH. MEZZ. TO BE 600S162-54 @ 16" O.C.

7. PROVIDE 1/4" BENT PLATE EDGE ANGLE CONTINUOUS AT ALL 3" ROOF DECK EDGES.

8. PROVIDE L4X4X1/4 CONTINUOUS ROOF DECK EDGE ANGLE AT ALL 1.5" AND 1.0" ROOF DECK EDGES.

COLUMN	SCHEDULE	-
SHAPE	BASE PLATE	BRG. ELEV.
HSS6X6X5/16	SEE PLAN	99′-4"
HSS6X6X3/8	SEE PLAN	99′-4"
HSS8X6X3/8	SEE PLAN	99′-4"
HSS8X8X3/8	SEE PLAN	99′-4"
HSS10X8X3/8	SEE PLAN	99'-4"
HSS12X6X3/8	SEE PLAN	99′-4"
HSS12X8X3/8	SEE PLAN	99′-4"

1. SEE ROOF FRAMING PLAN (S1.2) FOR BASE PLATE CALL-OUTS EA. COLUMN. SEE SHEET \$3.1 FOR BASE PLATE DETAILS. 2. CAP TOES OF ALL COLUMNS W/ MIN. 3/8" CAP PLATE U.N.O. IN DETAILS.

# **BEAM KEY PLAN**

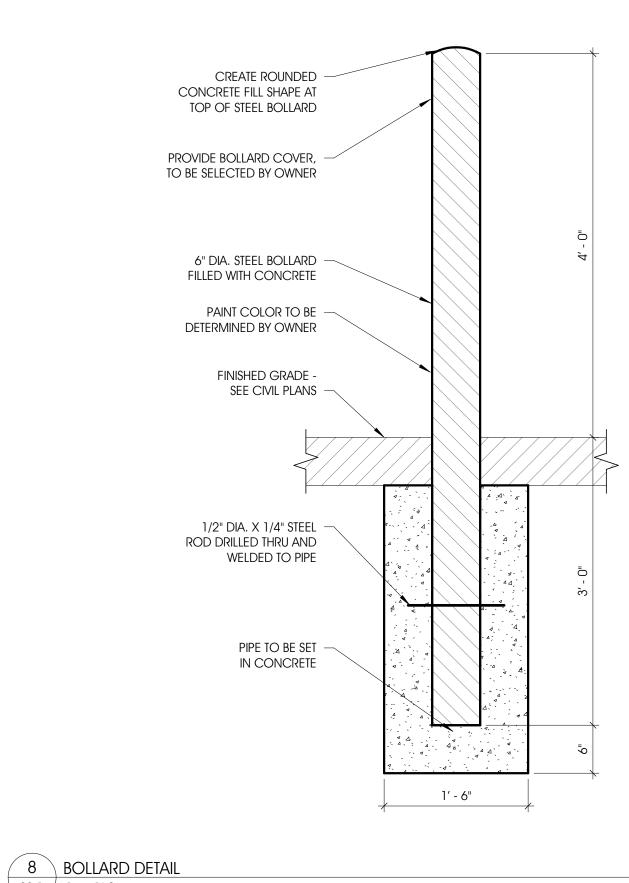
SHEAR REACTION (KIPS ASD)

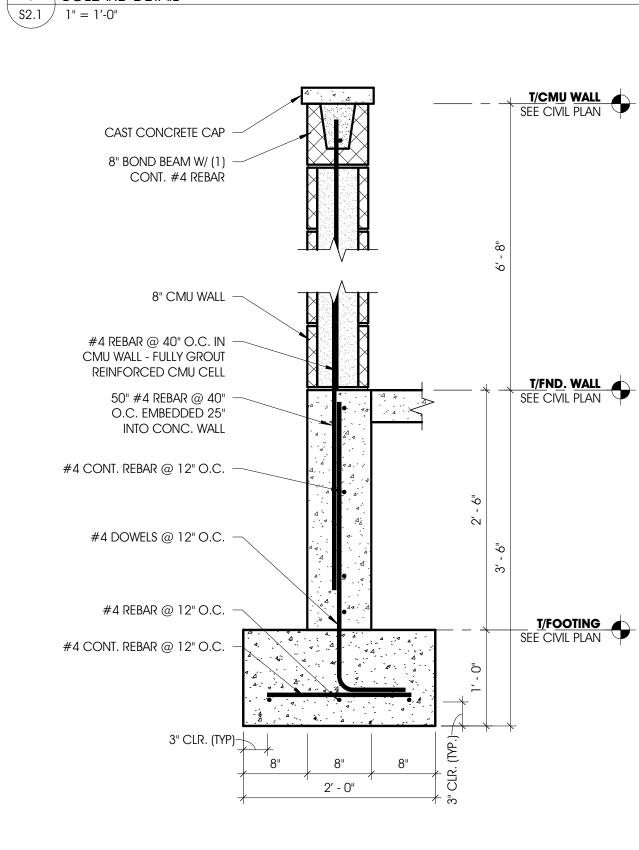
SHAPE (T.O.S. ELEVATION) SHEAR REACTION (KIPS ASD)

BY DATE

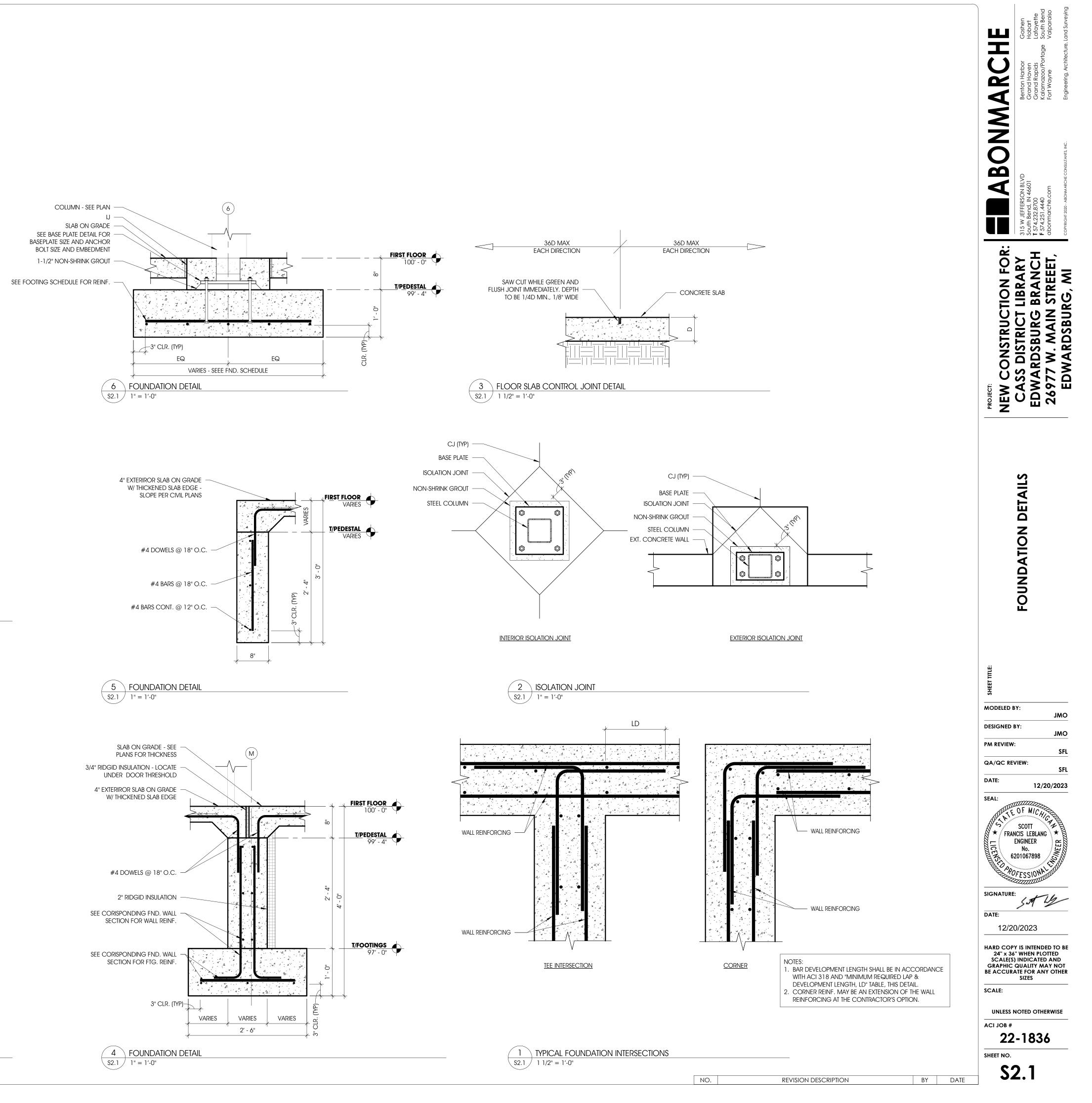
ONMARCHE	Benton Harbor Goshen Grand Haven Hobart Grand Rapids Lafayette Kalamazoo/Portage South Bend	Fort Wayne Engineering, Architecture,
	315 W JEFFERSON BLVD South Bend, IN 46601 <b>T</b> 574.232.8700 <b>F</b> 574.251.4440	abonmarche.com copyright 2020 - Abonmarche consultants, inc.
PROJECT: NEW CONSTRUCTION FOR:	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH	26977 W. MAIN STREEET, EDWARDSBURG, MI
	ROOF FRAMING PLAN	
HILE HILE MODELED B DESIGNED I PM REVIEW QA/QC REV DATE: SEAL:	3Y: : /IEW:	JMO JMO SFL SFL 20/2023
LICENSED PRO	ACIS LEBLANC ENGINEER No. 201067898 PFESS10NA	NEER WEER
24" x 36 SCALE(S) GRAPHIC BE ACCURA SCALE: UNLESS N ACI JOB # 222 SHEET NO.	Y IS INTEND "WHEN PLC INDICATED QUALITY MA ATE FOR AN SIZES NOTED OTHI -1830 1.2	OTTED O AND AY NOT Y OTHER ERWISE

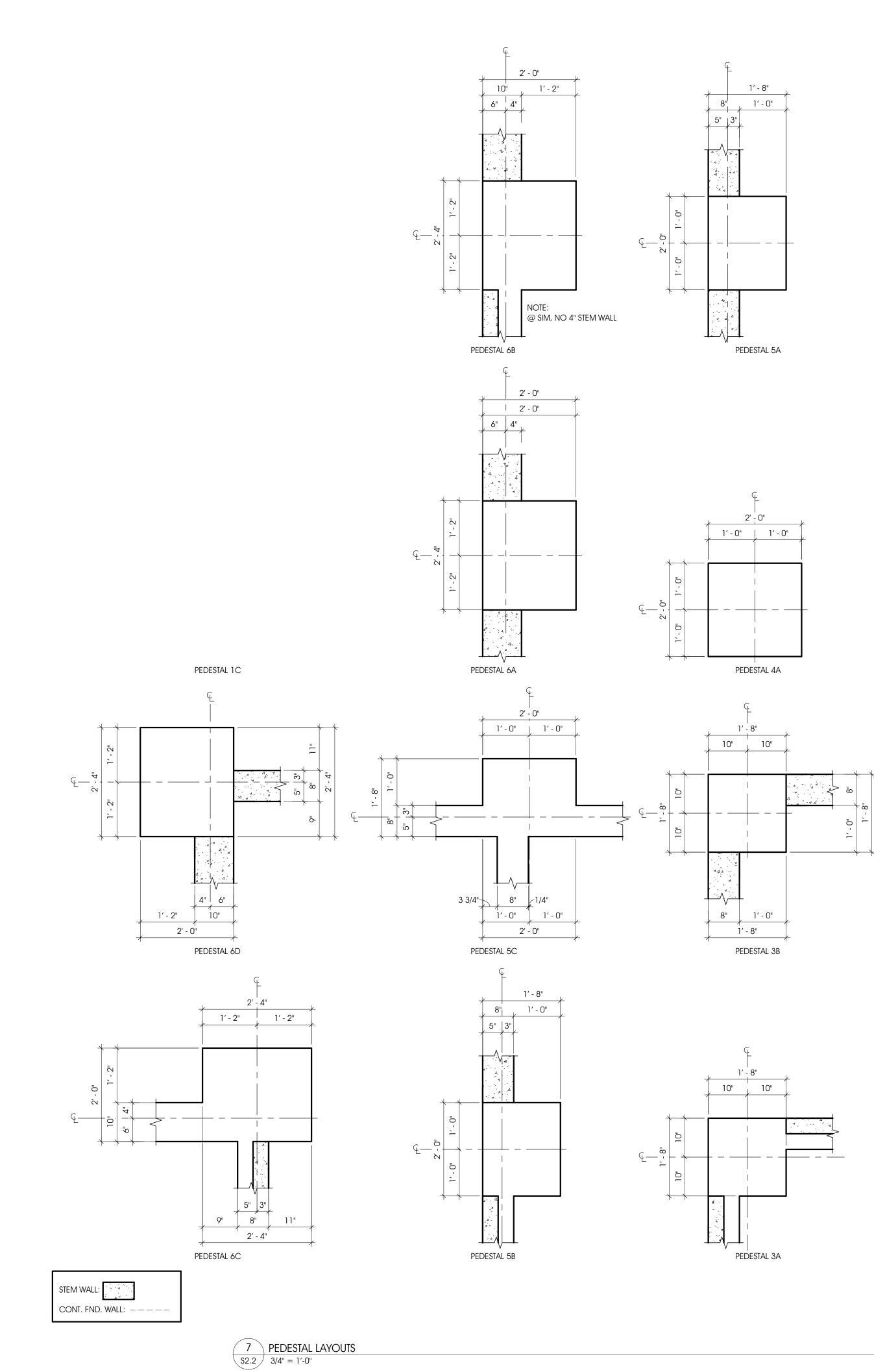
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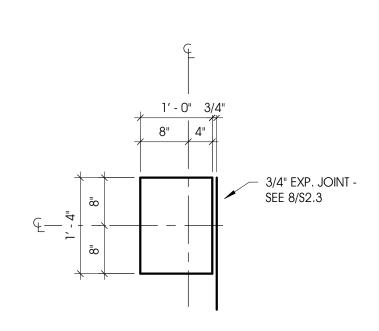


7 FOUNDATION DETAIL @ ENCLOSED DUMPSTER 52.1 1" = 1'-0"

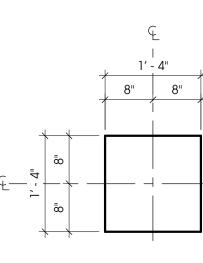




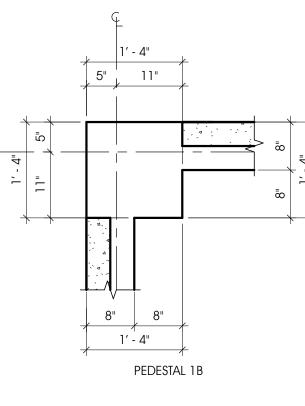


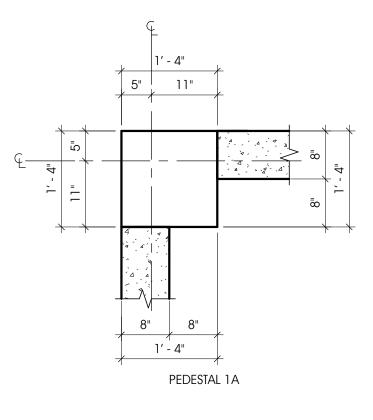


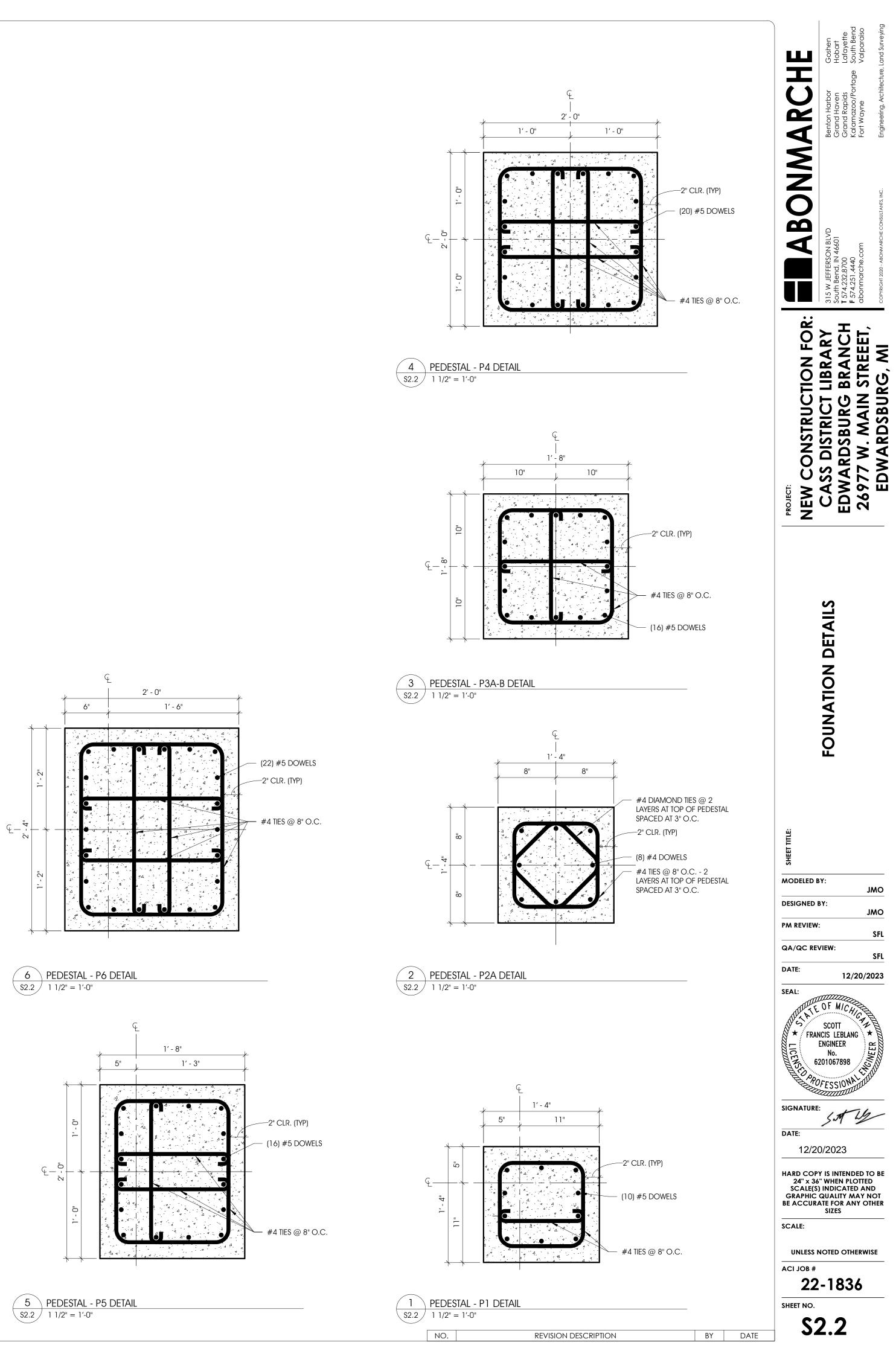
PEDESTAL 1C

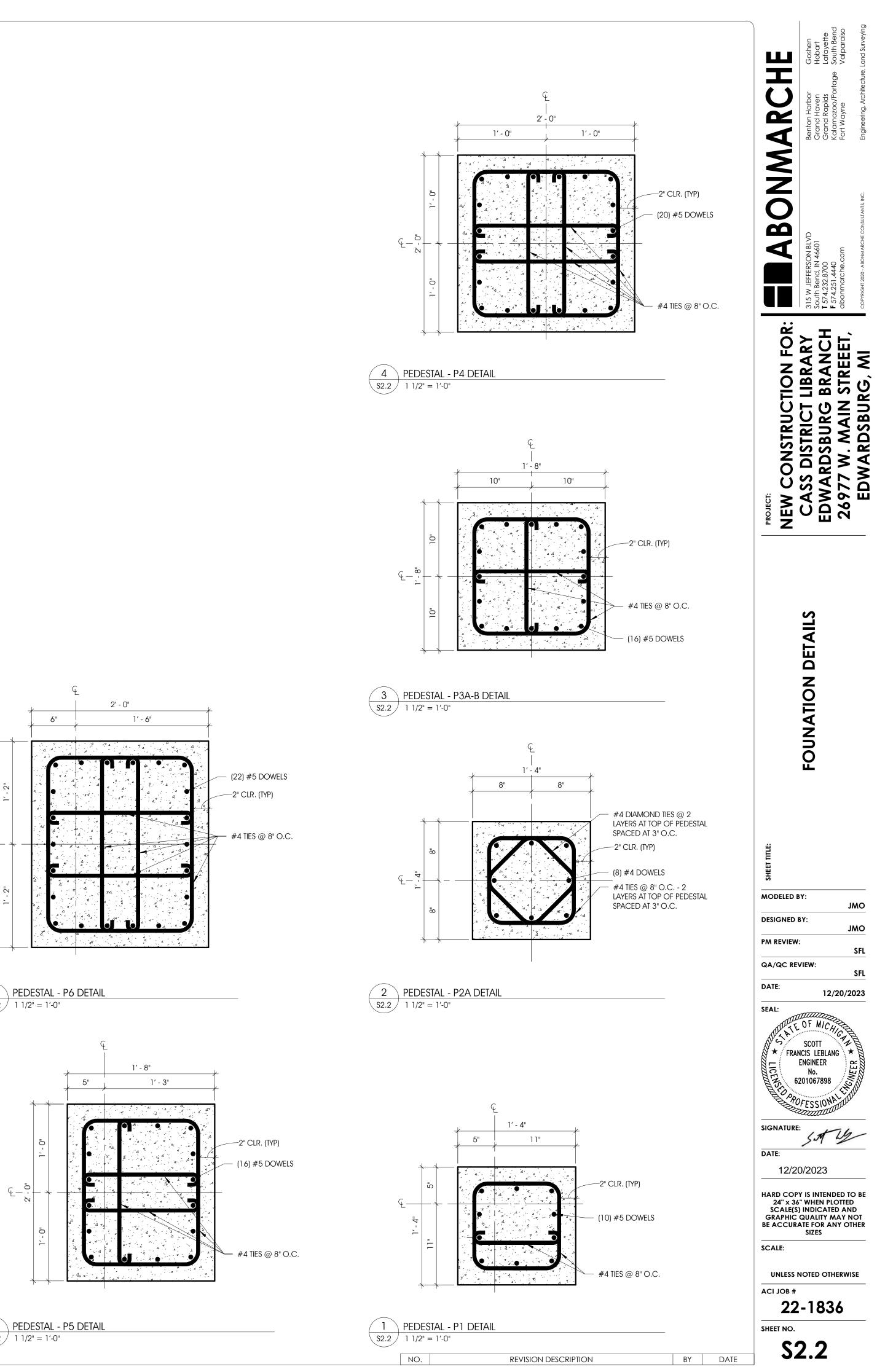


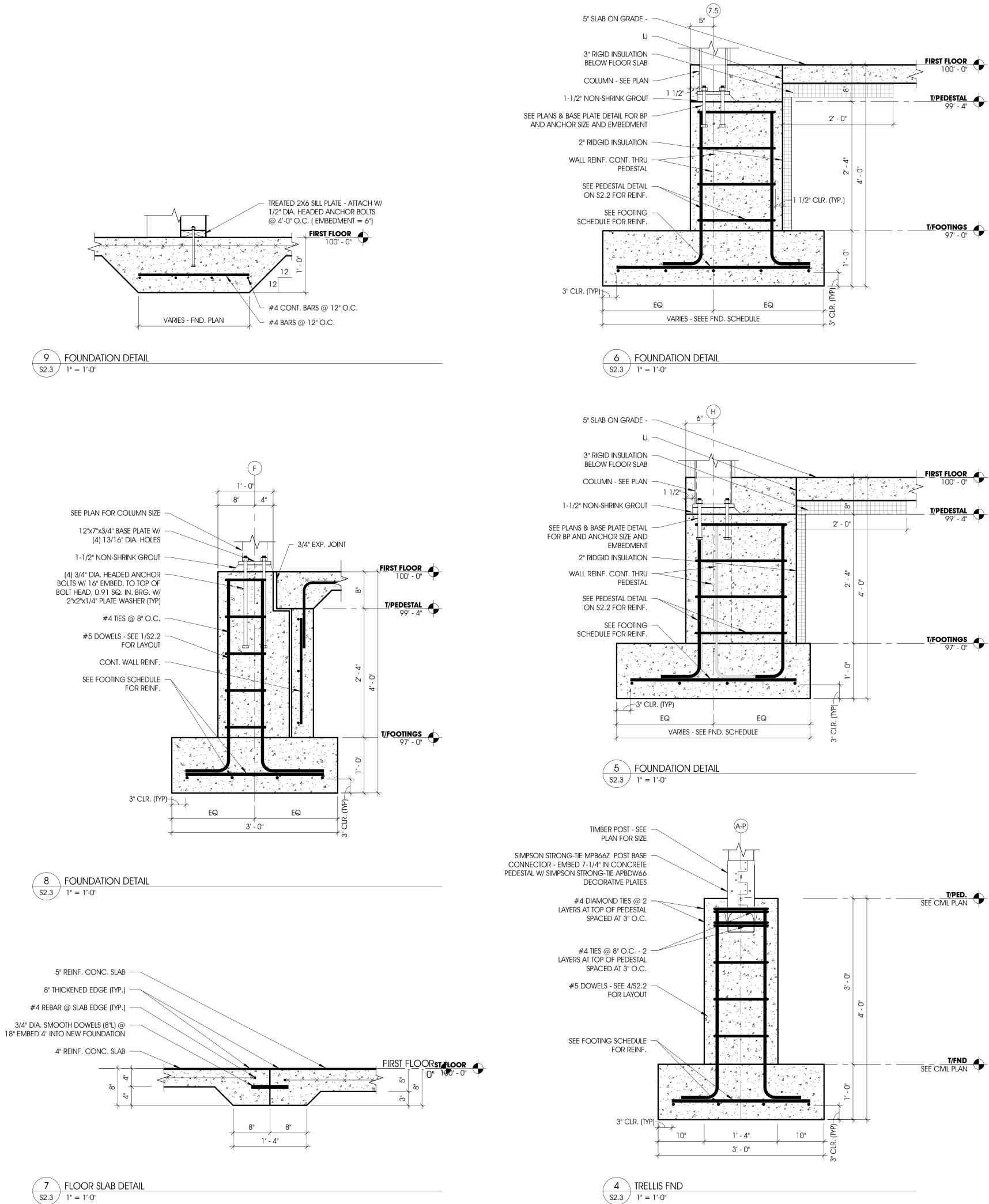
PEDESTAL 2A

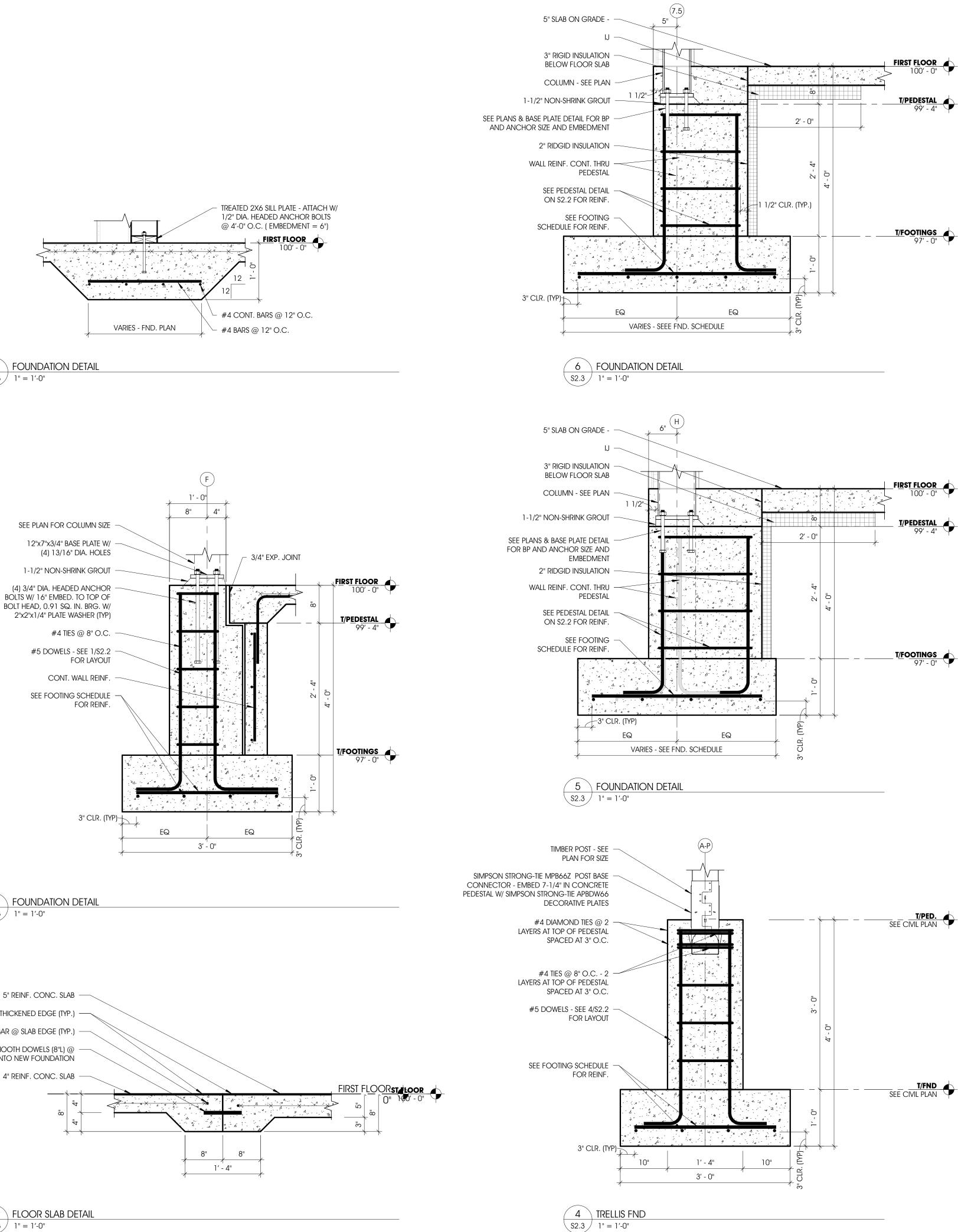


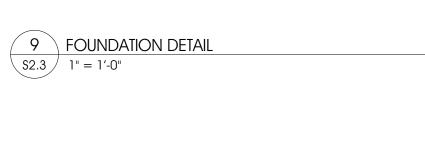


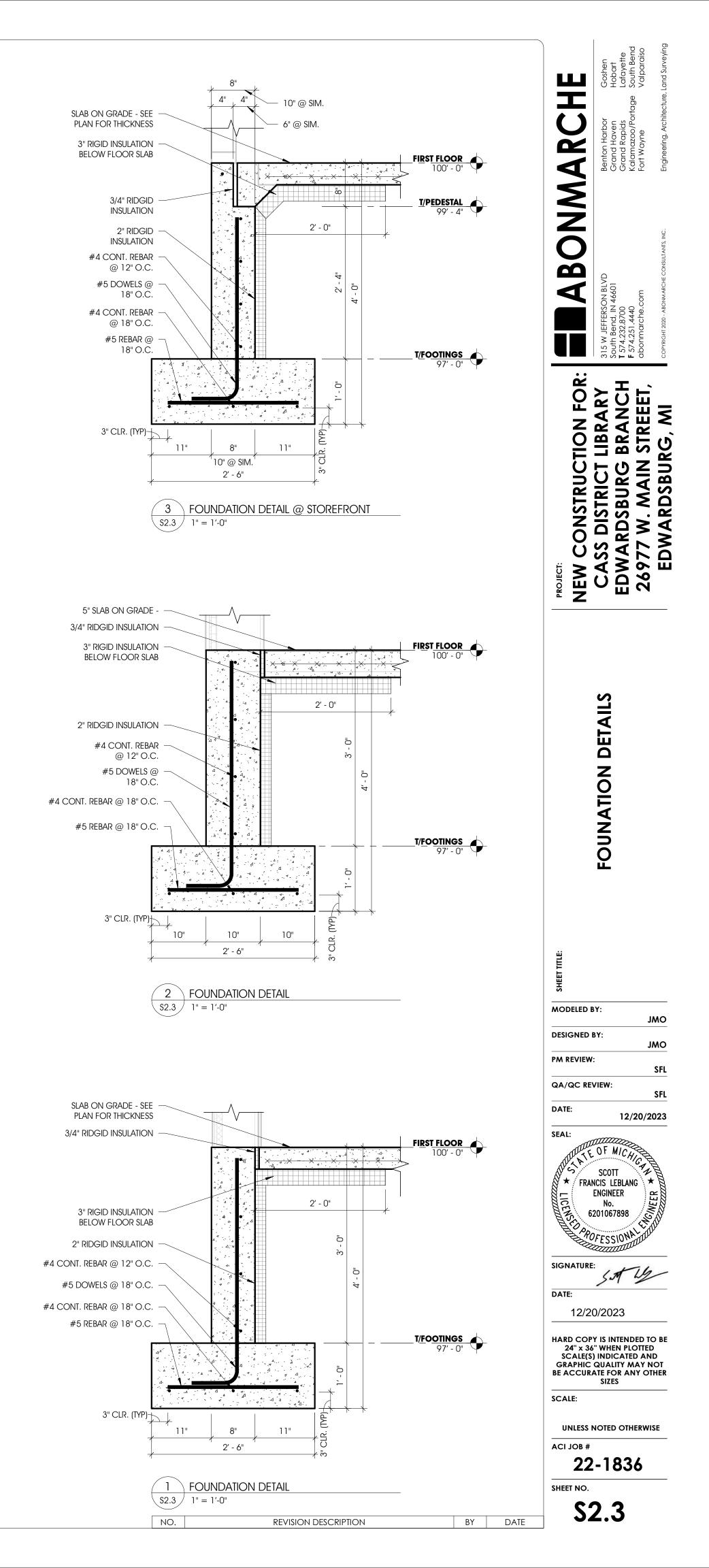


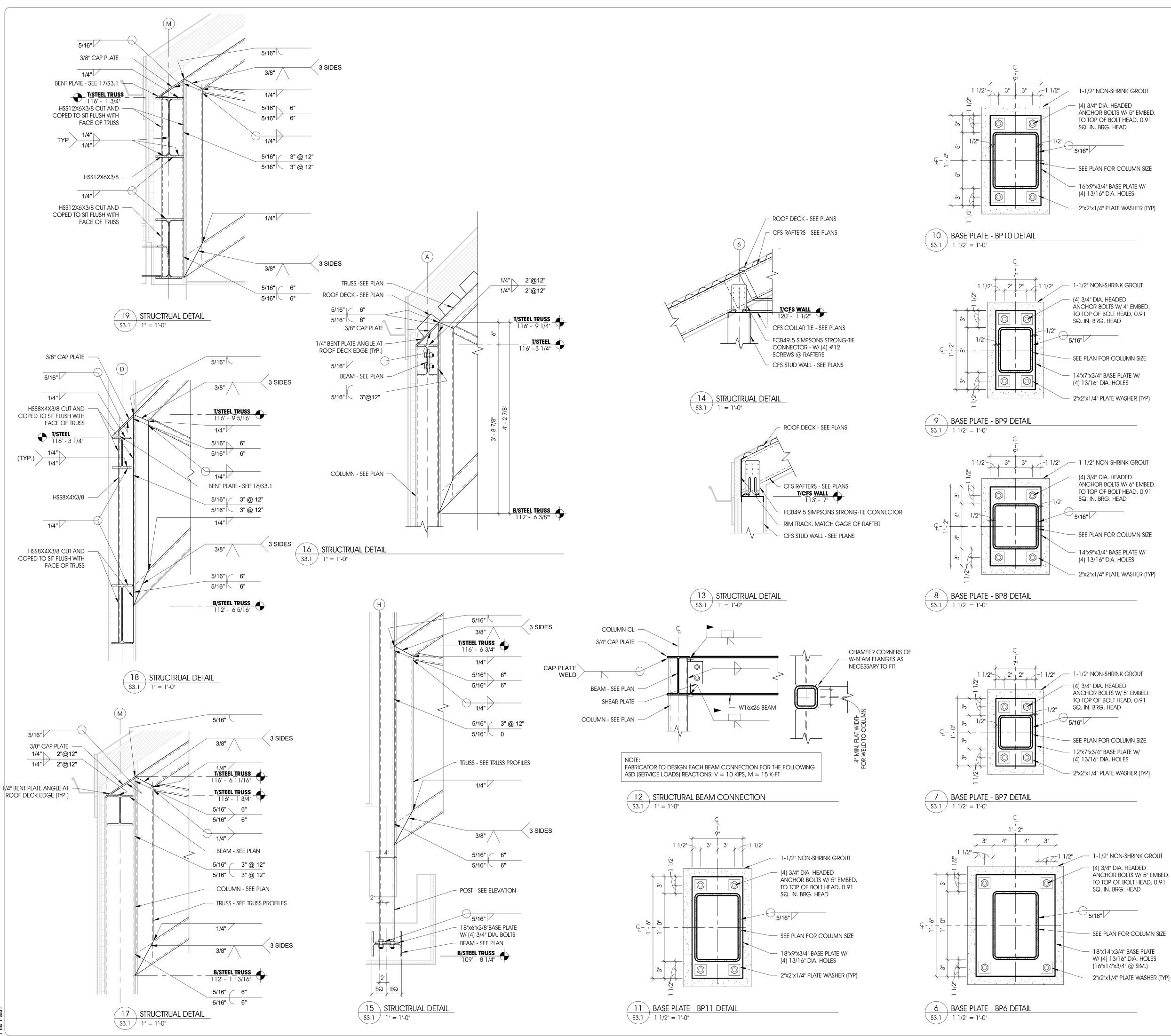












1 BASE PLATE - BP1 DETAIL

**REVISION DESCRIPTION** 

BY DATE

S3.1 1 1/2" = 1'-0"

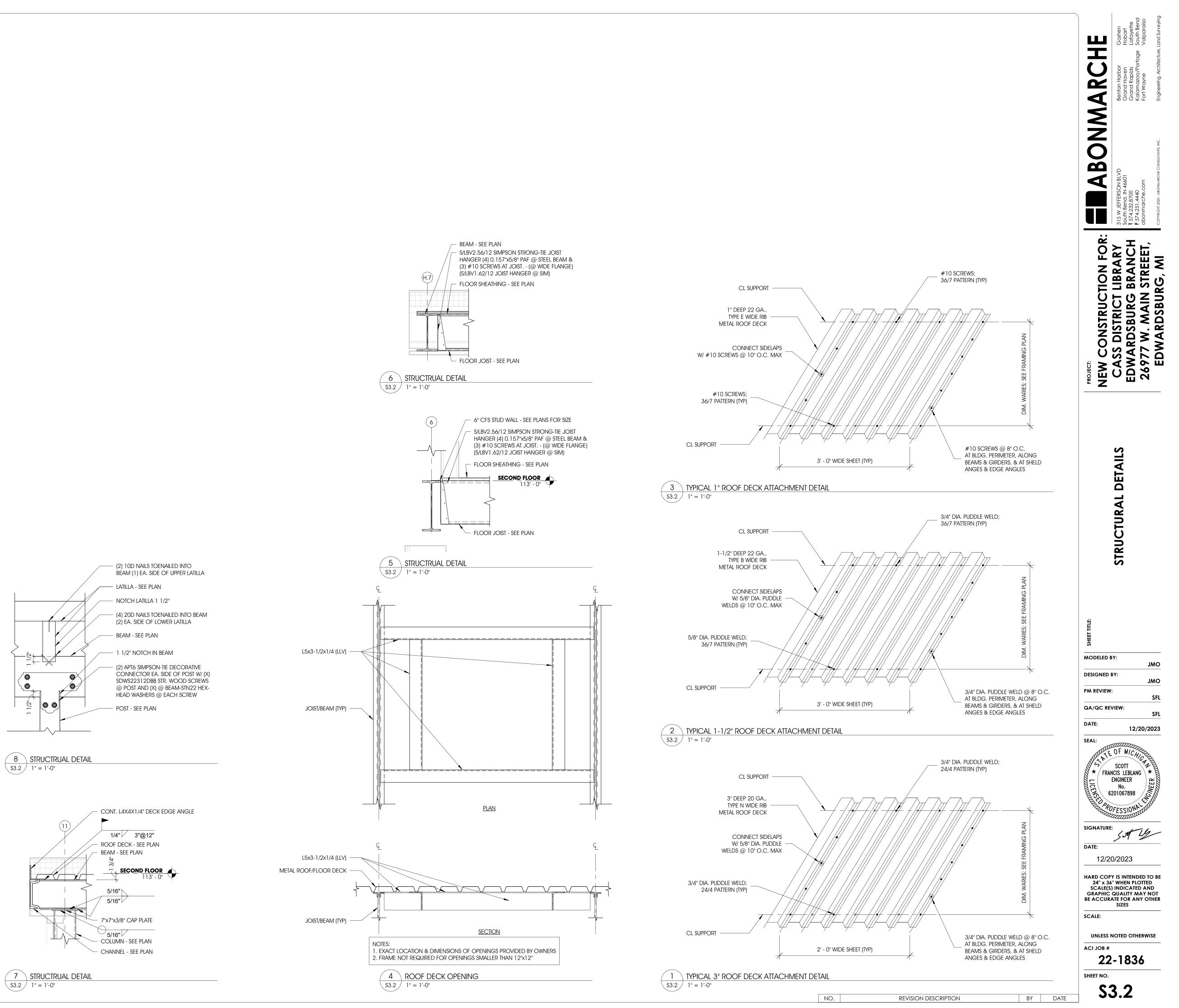
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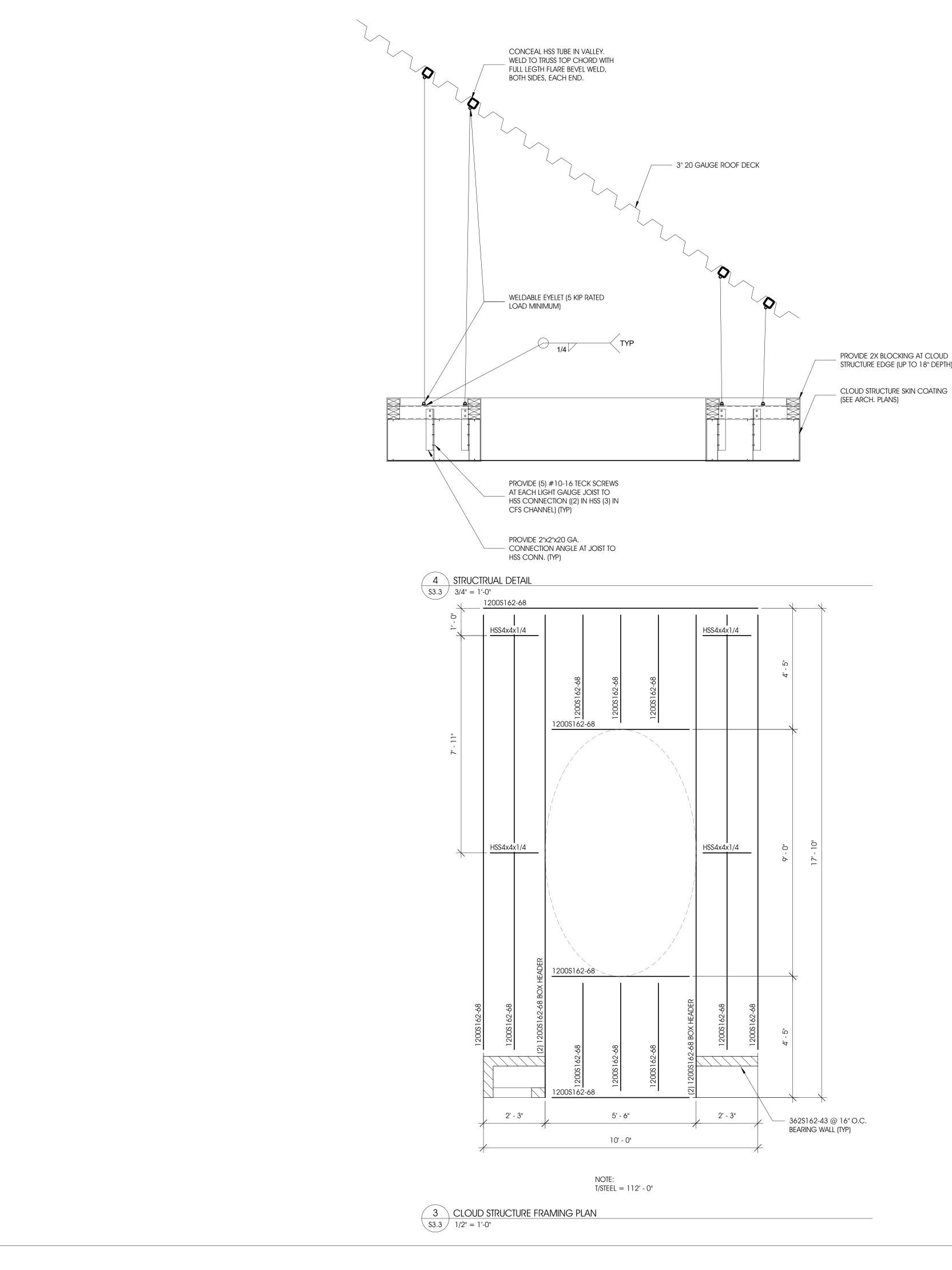
3" 3" 3" 3" - 1-1/2" NON-SHRINK GROUT -+1 1/2" (4) 3/4" DIA. HEADED ANCHOR BOLTS W/ 8" EMBED. ++1+ TO TOP OF BOLT HEAD, 0.91 SQ. IN. BRG. HEAD 5/16" - SEE PLAN FOR COLUMN SIZE 14"x12"x3/4" BASE PLATE W/ (4) 13/16" DIA. HOLES - 2"x2"x1/4" PLATE WASHER (TYP) 5 Base plate - BP5 Detail S3.1 1 1/2" = 1'-0" .3" 4" **∆**" 1 1/2"-1 1/2" 1-1/2" NON-SHRINK GROUT (4) 3/4" DIA. HEADED ANCHOR BOLTS W/ 4" EMBED + + +TO TOP OF BOLT HEAD, 0.91 ŝ SQ. IN. BRG. HEAD +´ 5/16" 🗸 SEE PLAN FOR COLUMN SIZE 14"x14"x3/4" BASE PLATE +W/ (4) 13/16" DIA. HOLES ē  $\times$ 2"x2"x1/4" PLATE WASHER (TYP) 4 BASE PLATE - BP4 DETAIL S3.1 1 1/2" = 1'-0" 1' - 0' 3", 3", 3", 3" 1 1/2" - 1-1/2" NON-SHRINK GROUT -1 1/2"/ (4) 3/4" DIA. HEADED ANCHOR BOLTS W/ 8" EMBED. TO TOP OF BOLT HEAD, 0.91 SQ. IN. BRG. HEAD +′ 5/16" 🗸 SEE PLAN FOR COLUMN SIZE 12"x12"x3/4" BASE PLATE W/ (4) 13/16" DIA. HOLES - 2"x2"x1/4" PLATE WASHER (TYP) 3 BASE PLATE - BP3 DETAIL S3.1 1 1/2" = 1'-0" 11 1/2" 1/2" 4" 4" 3" (4) 3/4" DIA. HEADED ANCHOR BOLTS
 W/ 5" EMBED. TO TOP OF BOLT HEAD,
 0.91 SQ. IN. BRG. HEAD ´ 5/16" └∕ 1-1/2" NON-SHRINK GROUT SEE PLAN FOR COLUMN SIZE 11-1/2"x11-1/2"x3/4" BASE PLATE  $\bigcirc$ W/ (4) 13/16" DIA. HOLES + + + +- 2"x2"x1/4" PLATE WASHER (TYP) Ē٧ 2 1/2" 9" -2 1/2" 11 1/2" 2 BASE PLATE - BP2 DETAIL S3.1 1 1/2" = 1'-0" 9 1/2" 1/2" 3" 3" 3" 1 1/2" - (4) 3/4" DIA. HEADED ANCHOR BOLTS W/ 5" EMBED. TO TOP OF BOLT HEAD, 0.91 SQ. IN. BRG. HEAD ´ 5/16" └∕ 1-1/2" NON-SHRINK GROUT SEE PLAN FOR COLUMN SIZE  $\bigcirc$ ē 9-1/2"x9-1/2"x3/4" BASE PLATE W/ (4) 13/16" DIA. HOLES 2"x2"x1/4" PLATE WASHER (TYP) _ 2 1/2" 9 1/2"





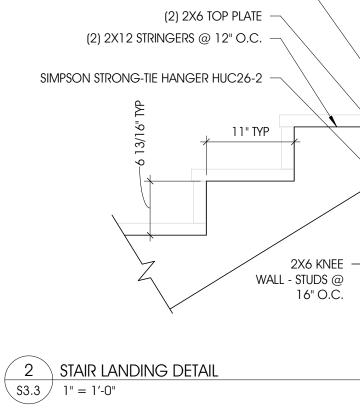




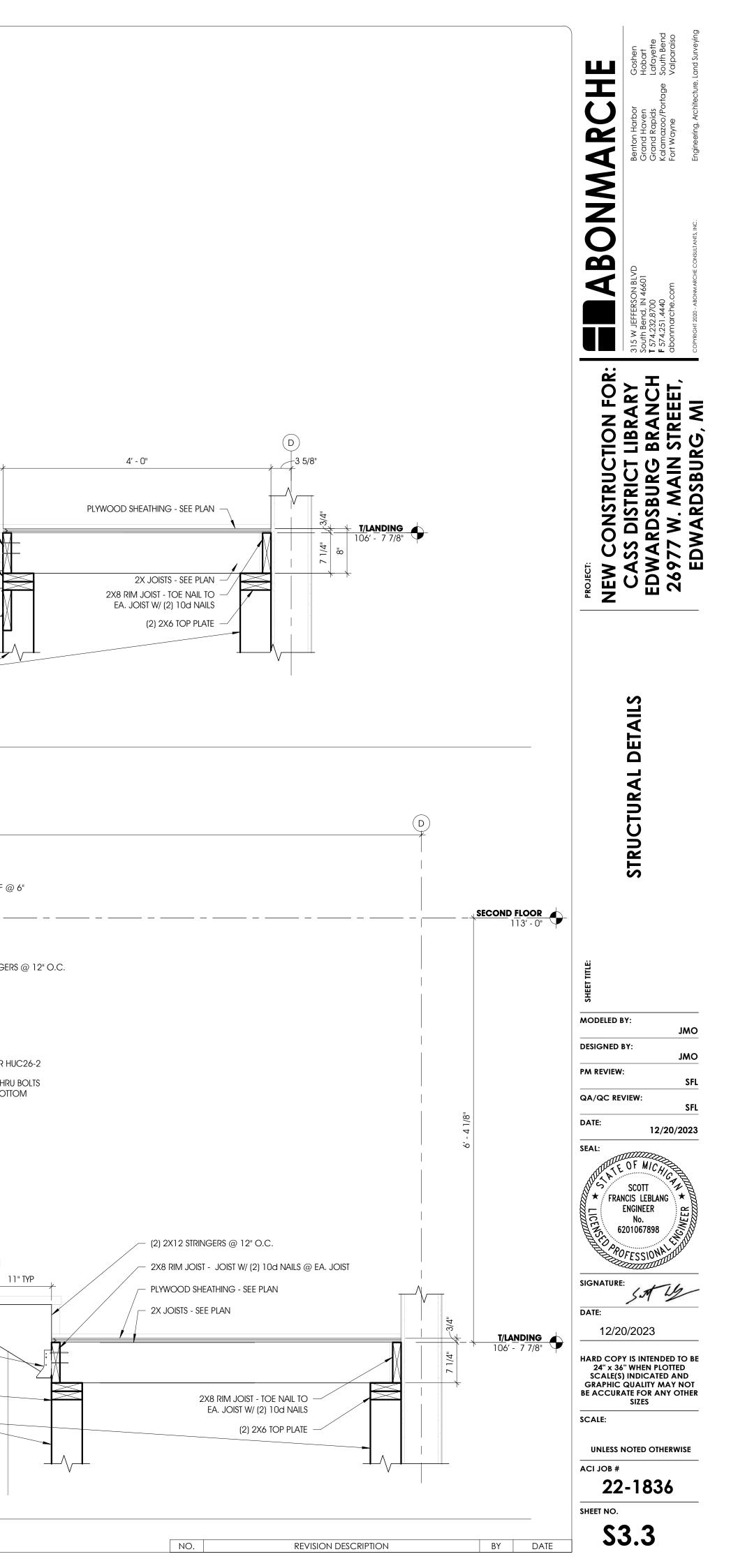


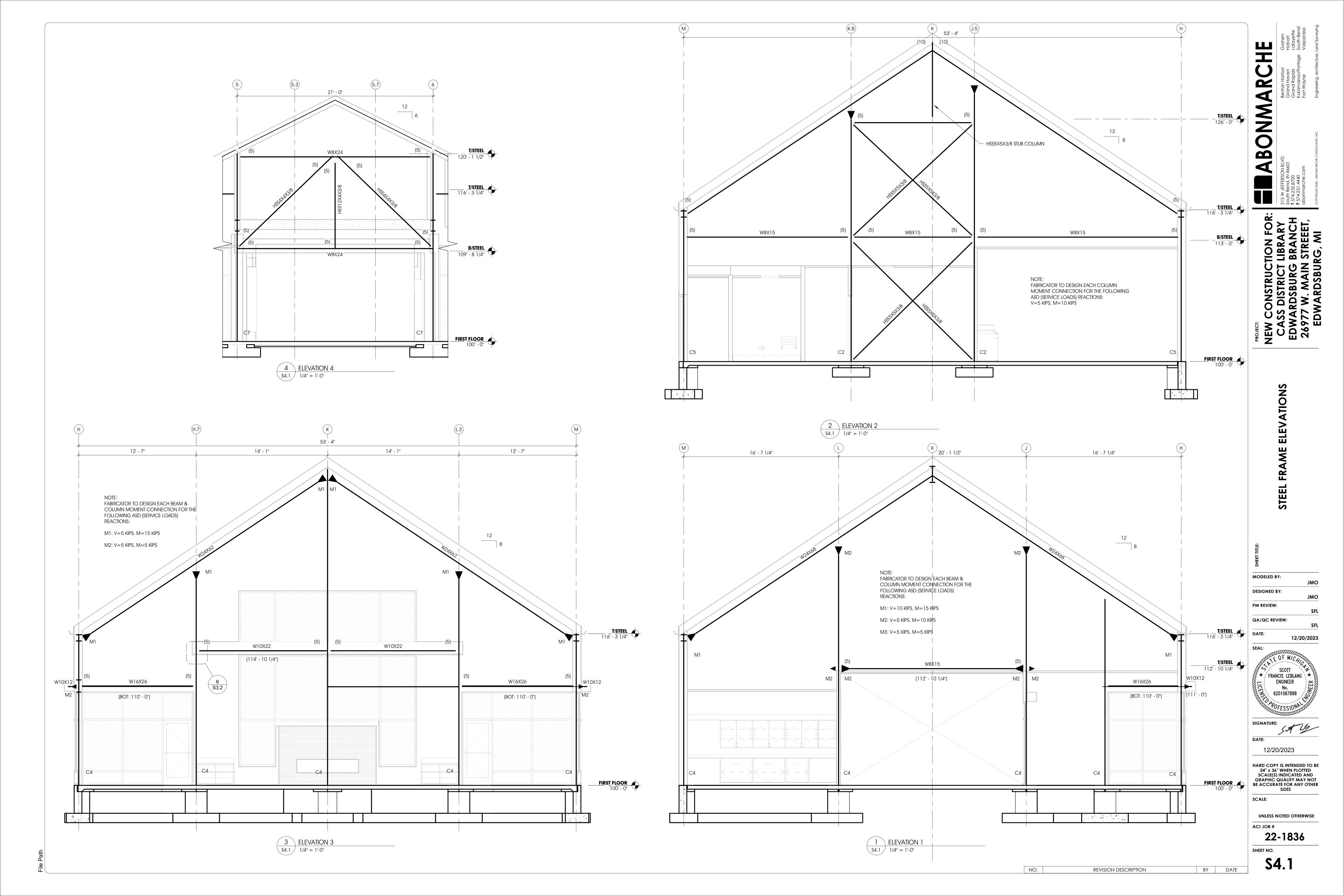
STRUCTURE EDGE (UP TO 18" DEPTH) CLOUD STRUCTURE SKIN COATING

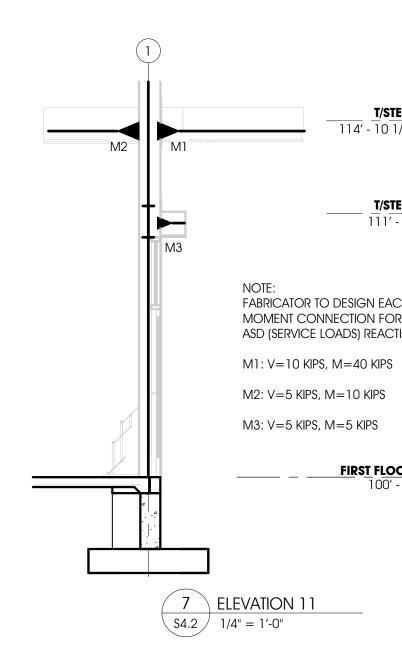
> $\begin{array}{c|c} \hline 2 \\ \hline S3.3 \\ \hline 1" = 1'-0" \end{array}$ E 14′ - 9 1/2" - Sheathing - See Plan — 0.157"x1-1/4" X-U 32 MX HILTI PAF @ 6"
>  O.C. AT PERIMETER (2) 2X12 STRINGERS @ 12" O.C. SIMPSON STRONG-TIE HANGER HUC26-2 (2) 2X12 BEAMS W/ 1/2" DIA. THRU BOLTS
>  @ 24" O.C. - 2Xs TO SIT ON BOTTOM
>  FLANGE OF STEEL BEAM - Beam - See Plan SIMPSON STRONG-TIE HANGER HUC26-2 (2) 2X6 TOP PLATE 2x6 KNEE WALL - STUDS @ 16" O.C. ---

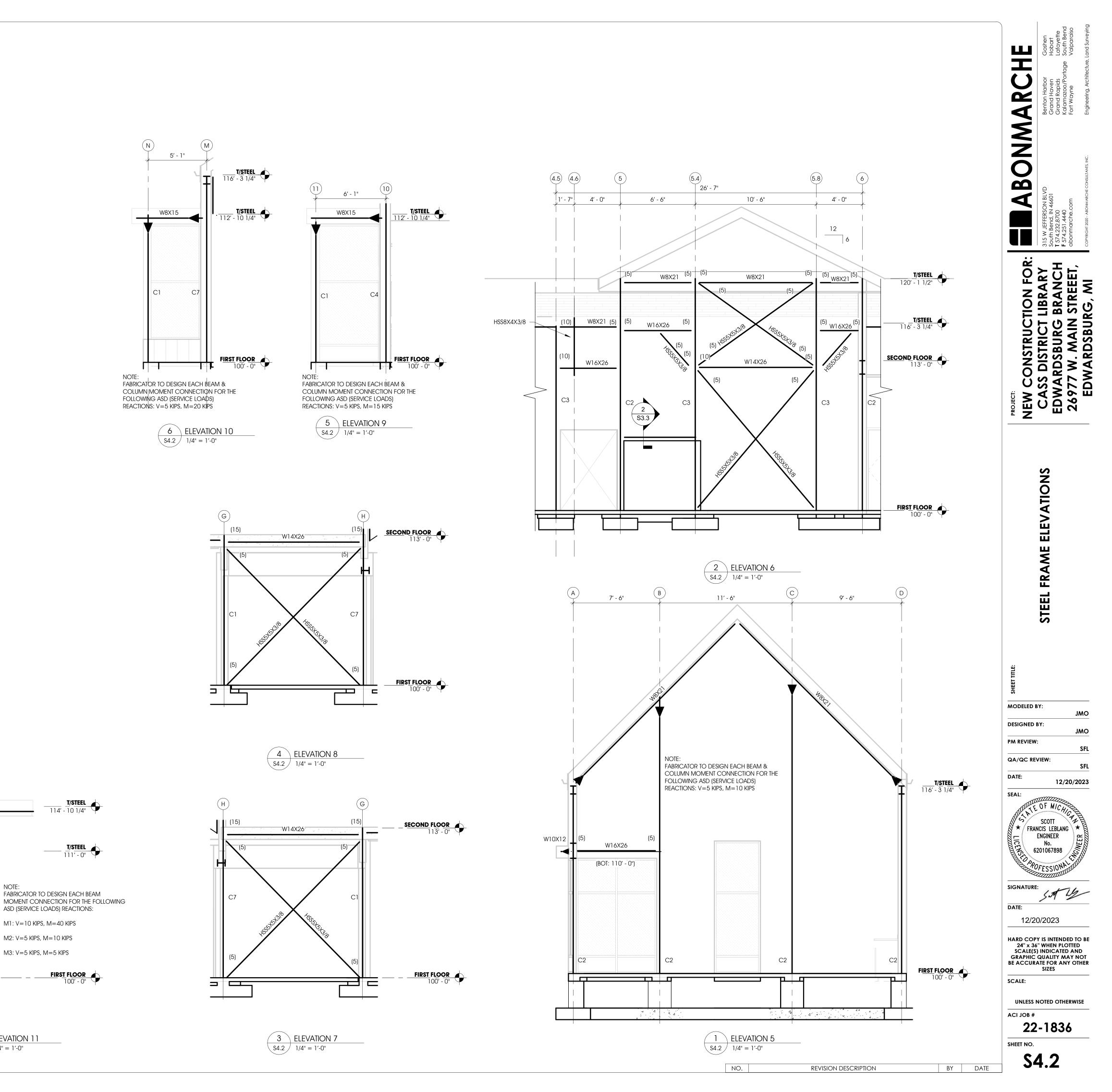


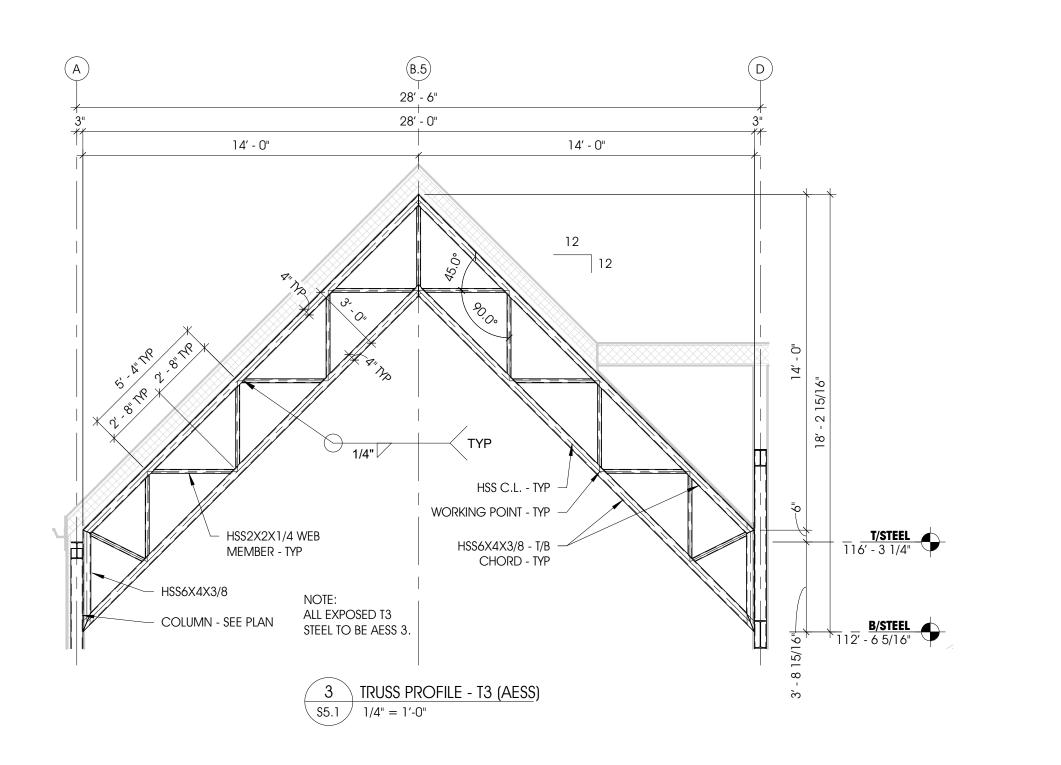
2x8 RIM JOIST - JOIST W/ (2) 10d NAILS @ EA. JOIST -

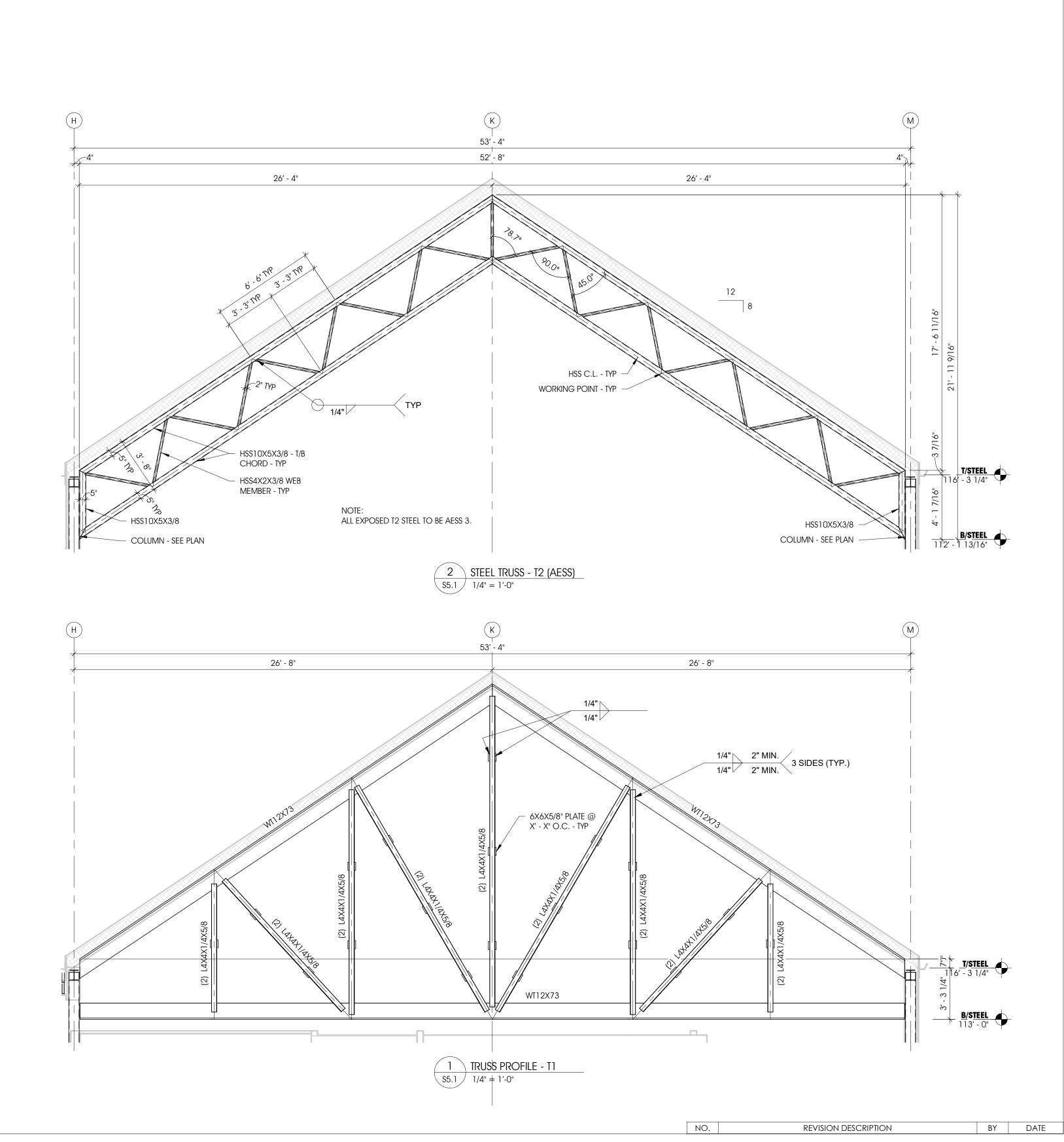






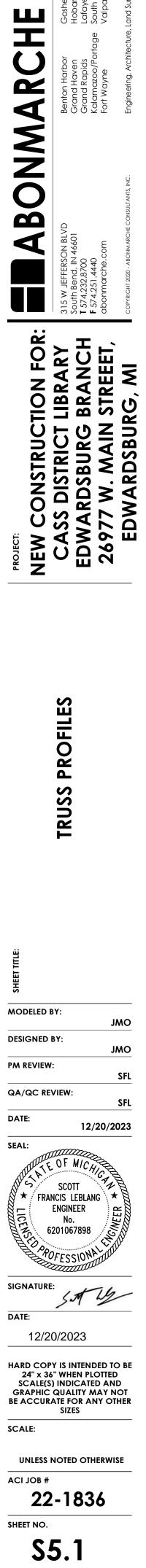




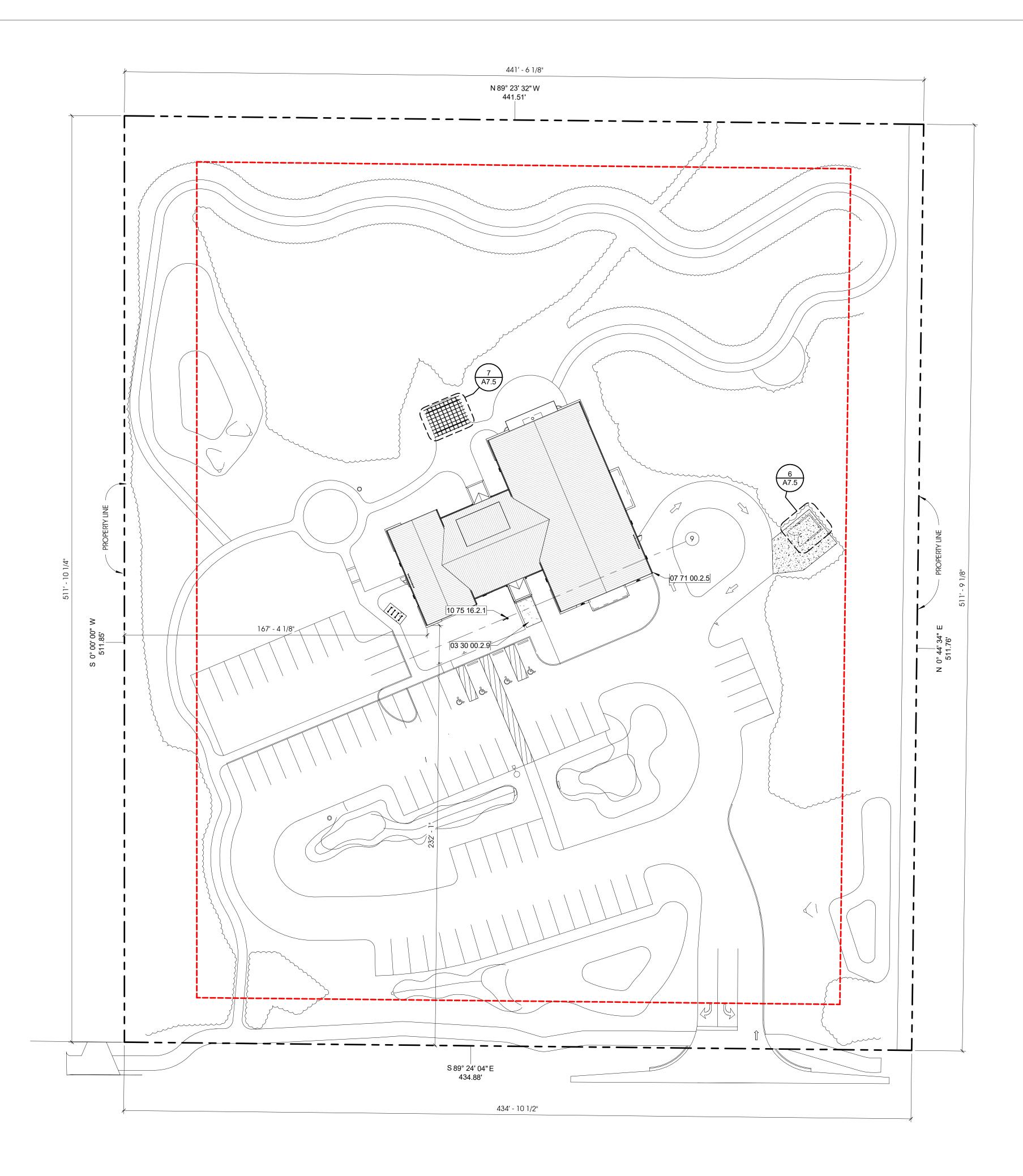


# <u>GENERAL NOTES</u>

- 1. SEE ARCH DWGS FOR ARCHITECTUALLY EXPOSED STRUCTURUAL STEEL (AESS) FINISHES.
- 2. ALL STEEL INDICATED ON THIS DWG AS AESS IS TO BE TREATED AS CATEGORY AESS 3.
- 3. GRIND WELDS SMOOTH FOR AESS. FOR GROOVE WELD GRIND TO WITHIN 1/16" OF ORIGINAL THICKNESS.
- 4. CONTOUR AND BLEND WELDS TO PROVIDE A SMOOTH TRANSITION AT ALL LOCATIONS APPLICABLE.
- 5. PROVIDE A UNIFORM GAP OF 1/8" +/- 1/32" AT ALL COPES AND BLOCKING.
- 6. POSITION PIECE MARKS SO THAT THEY WILL BE HIDDEN AFTER FINAL ERECTION.
- PROVIDE A 3/8" CLOSURE PLATE AT ANY OPEN ENDED HOLLOW STEEL SECTION.
   SEE SPECIFICATIONS SECTION 051213 FOR FURTHER REQUIREMENTS FOR AESS.

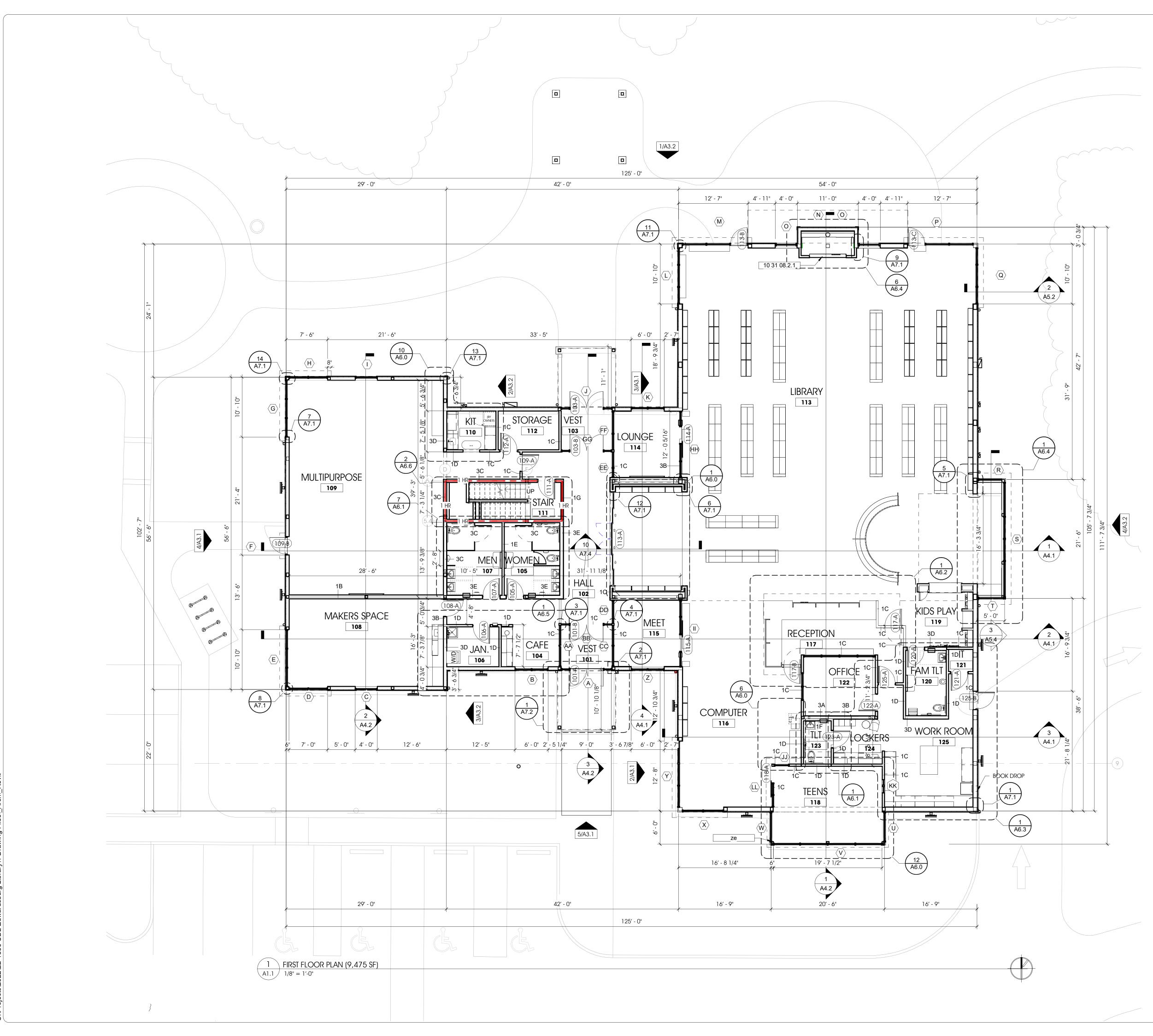


Projects\2022\22-1836 CDL Edwardsburg Library\1 Drawing Files_Arch_Re



 $\begin{array}{|c|c|c|c|c|}\hline 1 & ARCHITECTURAL SITE PLAN \\\hline A0.1 & 1" = 30'-0" \end{array}$ 

<u>FINISH FLOC</u>	DR ELEVATIONS		Goshen Hobart Lafayette South Bend Valparaiso
CIVIL: ARCHITECTURE:	+824.00 +100'-0"		Fort Wayne Benton Harbor Manistee South Haven
SITE C/ Zoning Lot Area Lot dimensions SETBACKS Front Yard; US 12 Side Yard; East Side Yard; West Rear yard; South Building Height Allowable SF Cover Total Proposed Cov Allowable Future Ex	12'-6" 144'-8" Ad 25'-0" 188'-3" 40'-0" 26'-1" A AREA CALCULATIONS rage verage (3%)	ary US 12 Comments acent Residential Lots acent Residential Lots vg Grade/ Mean Hgt x50% 118,372 9,349 109,023	R: <b>Fight BONMARCHE</b> <b>I Fort Wayne</b> <b>I 574.232.8700</b> <b>F 574.251.440</b> abonmarche.com
	HALT EK PAVERS NCRETE		PROJECT: NEW CONSTRUCTION FOR: CASS DISTRICT LIBRARY EDWARDSBURG BRANCH 26977 W. MAIN STREET
			<b>PLAN</b>
07 71 00.2.5 "ALUMINUM SHAPE - COL 10 75 16.2.1 "GROUND SE AND LED LIG		I WITH GOLD BALL TOPPER	ARCHITECTURAL SITE
Key Value         Keynote Tex           03 30 00.2.9         CONCRETE           07 71 00.2.5         "ALUMINUM SHAPE - COL           10 75 16.2.1         "GROUND SE AND LED LIG	xt Sidewalk- Refer to civil Downspout Shall Be Heavy Duty, Smoo Lor Shall Be Black." Et Aluminum Flagpole Shall Be 25'-0""H Ghting (Flag Shall Be By Owner) - Refe	I WITH GOLD BALL TOPPER	Hit
Key Value         Keynote Tex           03 30 00.2.9         CONCRETE           07 71 00.2.5         "ALUMINUM SHAPE - COL           10 75 16.2.1         "GROUND SE AND LED LIG	xt Sidewalk- Refer to civil Downspout Shall Be Heavy Duty, Smoo Lor Shall Be Black." Et Aluminum Flagpole Shall Be 25'-0""H Ghting (Flag Shall Be By Owner) - Refe	I WITH GOLD BALL TOPPER	Hundred By:   MODELED BY:   DESIGNED BY:   PM REVIEW:   ARD,   QA/QC REVIEW:
Key Value         Keynote Tex           03 30 00.2.9         CONCRETE           07 71 00.2.5         "ALUMINUM SHAPE - COL           10 75 16.2.1         "GROUND SE AND LED LIG	xt Sidewalk- Refer to civil Downspout Shall Be Heavy Duty, Smoo Lor Shall Be Black." Et Aluminum Flagpole Shall Be 25'-0""H Ghting (Flag Shall Be By Owner) - Refe	I WITH GOLD BALL TOPPER	Image: standard sta



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# <u>GENERAL NOTES - FLOOR PLAN</u>

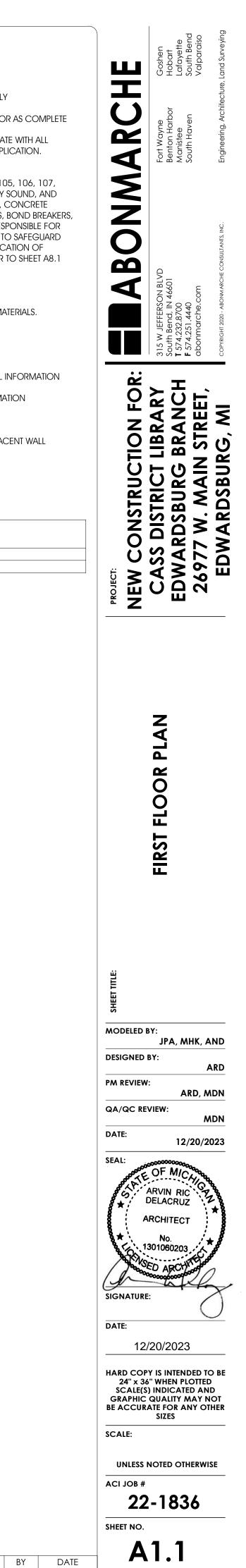
- A. DO NOT SCALE DRAWINGS USE WRITTEN DIMENSIONS PROVIDED ONLY
- B. ALL SPECIFIED ITEMS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS COMPLETE SYSTEMS WITH ALL ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION. GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL TRADES, CONSTRUCTION TYPES, ETC...TO PREVENT EXCLUSION OR DUPLICATION. GENERAL CONTRACTORS BIDS SHALL BE ALL INCLUSIVE.
- C. PROVIDE ARCHITECTURAL CONCRETE FLOOR FINISH AT ROOMS 104, 105, 106, 107, AND 108 - G.C. SHALL ENSURE SURFACE IS CLEAN, DRY, STRUCTURALLY SOUND, AND FREE FROM DIRT, DUST, OIL, GREASE, SOLVENTS, PAINT, WAX, ASPHALT, CONCRETE CURING COMPOUNDS, SEALING COMPOUNDS, SURFACE HARDENERS, BOND BREAKERS, ADHESIVE RESIDUE, AND OTHER SURFACE CONTAMINANTS - G.C. IS RESPONSIBLE FOR USING TEMPORARY FLOOR PROTECTION THROUGHTOUT THE PROJECT TO SAFEGUARD THE SURFACE QUALITY OF CONCRETE SLABS BEFORE AND AFTER APPLICATION OF DECORATIVE FINISHES OR INSTALLATIONS OF OTHER MATERIALS - REFER TO SHEET A8.1 AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS
- D. REFER TO SHEET T1.2 FOR WALL TYPES
- E. REFER TO SHEET A8.1 ROOM FINISH SCHEDULE FOR INTERIOR FINISH MATERIALS.
- F. REFER TO SHEET A8.2 FOR DOOR AND FRAME ELEVATIONS.
- G. REFER TO SHEET A8.3 STOREFRONT ELEVATIONS
- H. REFER TO STRUCTURAL DRAWINGS & SPECIFICATIONS FOR ADDITIONAL INFORMATION
- I. REFER TO MEP DRAWING & SPECIFICATIONS FOR ADDITIONAL INFORMATION
- J. PROVIDE FINISHED FACE @ ALL SIDES OF LIBRARY SHELVING
- K. ALL EXTERIOR WALL PENETRATIONS SHALL BE FINISHED TO MATCH ADJACENT WALL COLOR (TYP.)
- L. PROVIDE SEALANT BETWEEN ALL DISSIMILAR MATERIALS (TYP)

# KEYNOTE LEGEND

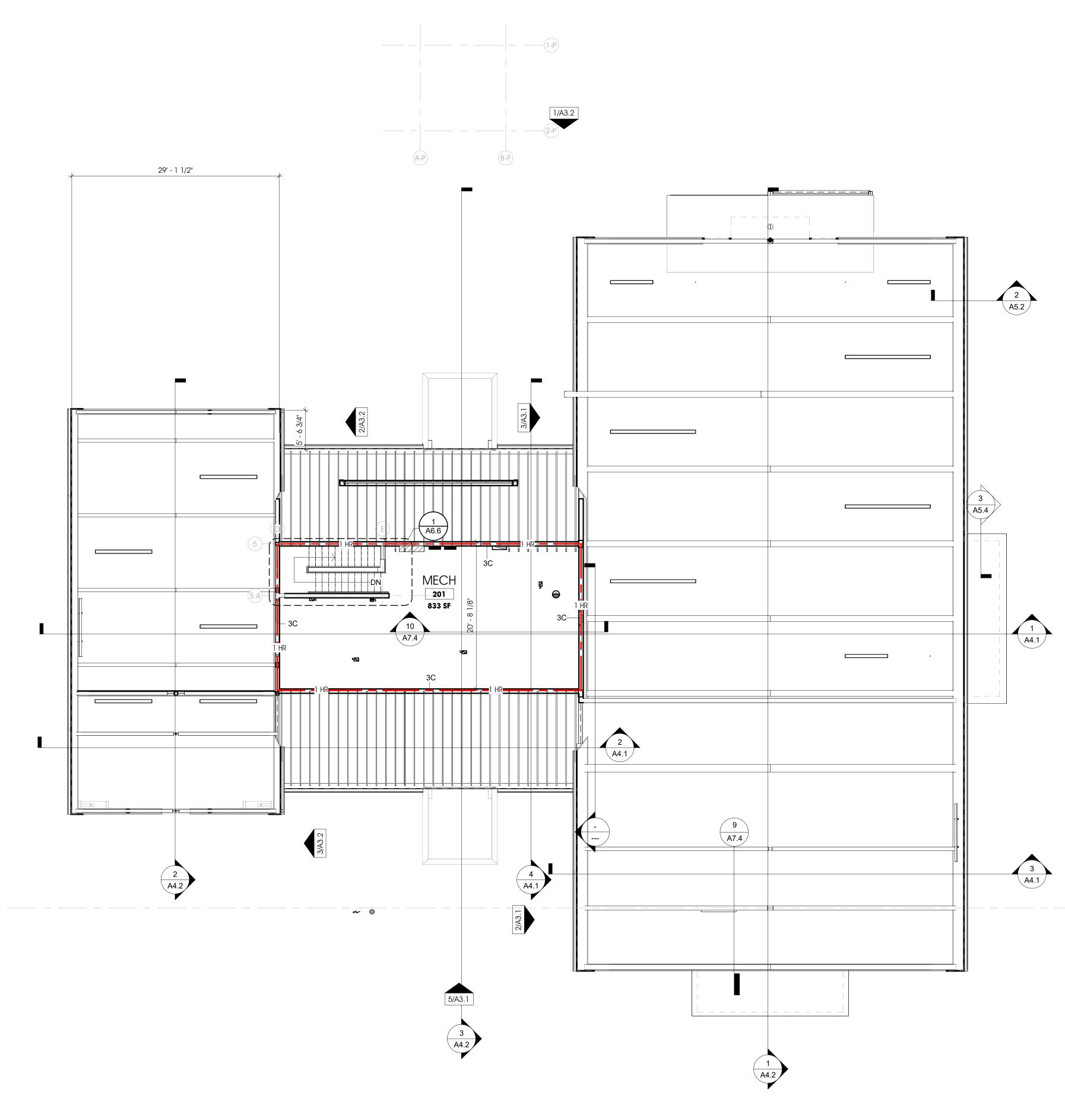
NO.

**REVISION DESCRIPTION** 

Key ValueKeynote Text10 31 08.2.1MANUFACTURED ELECTRIC FIREPLACE



Projects\2022\22-1836 CDL Edwardsburg Library\1 Drawing Files_Arch_Re



 $\begin{array}{|c|c|c|c|}\hline 1 & \text{MEZZANINE FLOOR PLAN} \\\hline A1.2 & 1/8" = 1'-0" \end{array}$ 

4/A3

# <u>GENERAL NOTES - FLOOR PLAN</u>

- A. DO NOT SCALE DRAWINGS USE WRITTEN DIMENSIONS PROVIDED ONLY
- B. ALL SPECIFIED ITEMS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS COMPLETE SYSTEMS WITH ALL ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION. GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL TRADES, CONSTRUCTION TYPES, ETC...TO PREVENT EXCLUSION OR DUPLICATION. GENERAL CONTRACTORS BIDS SHALL BE ALL INCLUSIVE.
- C. PROVIDE ARCHITECTURAL CONCRETE FLOOR FINISH AT ROOMS 104, 105, 106, 107, AND 108 - G.C. SHALL ENSURE SURFACE IS CLEAN, DRY, STRUCTURALLY SOUND, AND FREE FROM DIRT, DUST, OIL, GREASE, SOLVENTS, PAINT, WAX, ASPHALT, CONCRETE CURING COMPOUNDS, SEALING COMPOUNDS, SURFACE HARDENERS, BOND BREAKERS, ADHESIVE RESIDUE, AND OTHER SURFACE CONTAMINANTS - G.C. IS RESPONSIBLE FOR USING TEMPORARY FLOOR PROTECTION THROUGHTOUT THE PROJECT TO SAFEGUARD THE SURFACE QUALITY OF CONCRETE SLABS BEFORE AND AFTER APPLICATION OF DECORATIVE FINISHES OR INSTALLATIONS OF OTHER MATERIALS - REFER TO SHEET A8.1 AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS
- D. REFER TO SHEET T1.2 FOR WALL TYPES
- E. REFER TO SHEET A8.1 ROOM FINISH SCHEDULE FOR INTERIOR FINISH MATERIALS.
- F. REFER TO SHEET A8.2 FOR DOOR AND FRAME ELEVATIONS.
- G. REFER TO SHEET A8.3 STOREFRONT ELEVATIONS
- H. REFER TO STRUCTURAL DRAWINGS & SPECIFICATIONS FOR ADDITIONAL INFORMATION
- I. REFER TO MEP DRAWING & SPECIFICATIONS FOR ADDITIONAL INFORMATION
- J. PROVIDE FINISHED FACE @ ALL SIDES OF LIBRARY SHELVING
- K. ALL EXTERIOR WALL PENETRATIONS SHALL BE FINISHED TO MATCH ADJACENT WALL COLOR (TYP.)
- L. PROVIDE SEALANT BETWEEN ALL DISSIMILAR MATERIALS (TYP)



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NO.

**REVISION DESCRIPTION** 

ILY OR AS COMPLETE JATE WITH ALL JPLICATION. 105, 106, 107, Y SOUND, AND	Fort Wayne Gosh Benton Harbor Lafay Manistee Cosh South Haven Lafay South Haven Valpo Engineering, Architecture, Land Su
T, CONCRETE S, BOND BREAKERS, ESPONSIBLE FOR TO SAFEGUARD ICATION OF IR TO SHEET A8.1	<b>TABON</b> <b>South Bend, IN 46601</b> <b>1</b> 574.232.8700 <b>F</b> 574.251.4440 abonmarche.com COPYRIGHT 2020 - ABONMARCHE CONSULTANTS, INC.
L INFORMATION MATION ACENT WALL	PROJECT: NEW CONSTRUCTION FOR: CASS DISTRICT LIBRARY CASS DISTRICT LIBRARY EDWARDSBURG BRANCH 26977 W. MAIN STREET, EDWARDSBURG, MI
	MEZZANINE FLOOR PLAN
	MODELED BY: JPA, MHK DESIGNED BY: ARD PM REVIEW: ARD, MDN QA/QC REVIEW: MDN DATE: 12/20/2023 SEAL: SEAL: No. 1301060203 SED ARCHITECT No. 1301060203 SIGNATURE: DATE: 12/20/2023
BY DATE	HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZES SCALE: UNLESS NOTED OTHERWISE ACI JOB # 22-1836 SHEET NO. A1.2



NO.

**REVISION DESCRIPTION** 

G PLAN ADDTIONAL HTING PLANS ROOM 201.	ABBONWARDER NBLVD 6601 8601 8601 8601 8601 8601 8601 8601
	<b>The Management of Contract of Contract of Contraction</b> <b>315 W JEFFERSON BLVD</b> <b>315 W JEFERSON BLVD</b>
	PROJECT: NEW CONSTRUCTION FOR: CASS DISTRICT LIBRARY CASS DISTRICT LIBRARY EDWARDSBURG BRANCH 26977 W. MAIN STREET, EDWARDSBURG, MI
	FIRST FLOOR - REFLECTED CEILING PLAN
	MODELED BY: JPA, AND DESIGNED BY: ARD PM REVIEW: ARD, MDN QA/QC REVIEW: MDN DATE: 12/20/2023 DATE: L2/20/2023
BY DATE	HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZES SCALE: UNLESS NOTED OTHERWISE ACI JOB # 22-1836 SHEET NO. A2.1

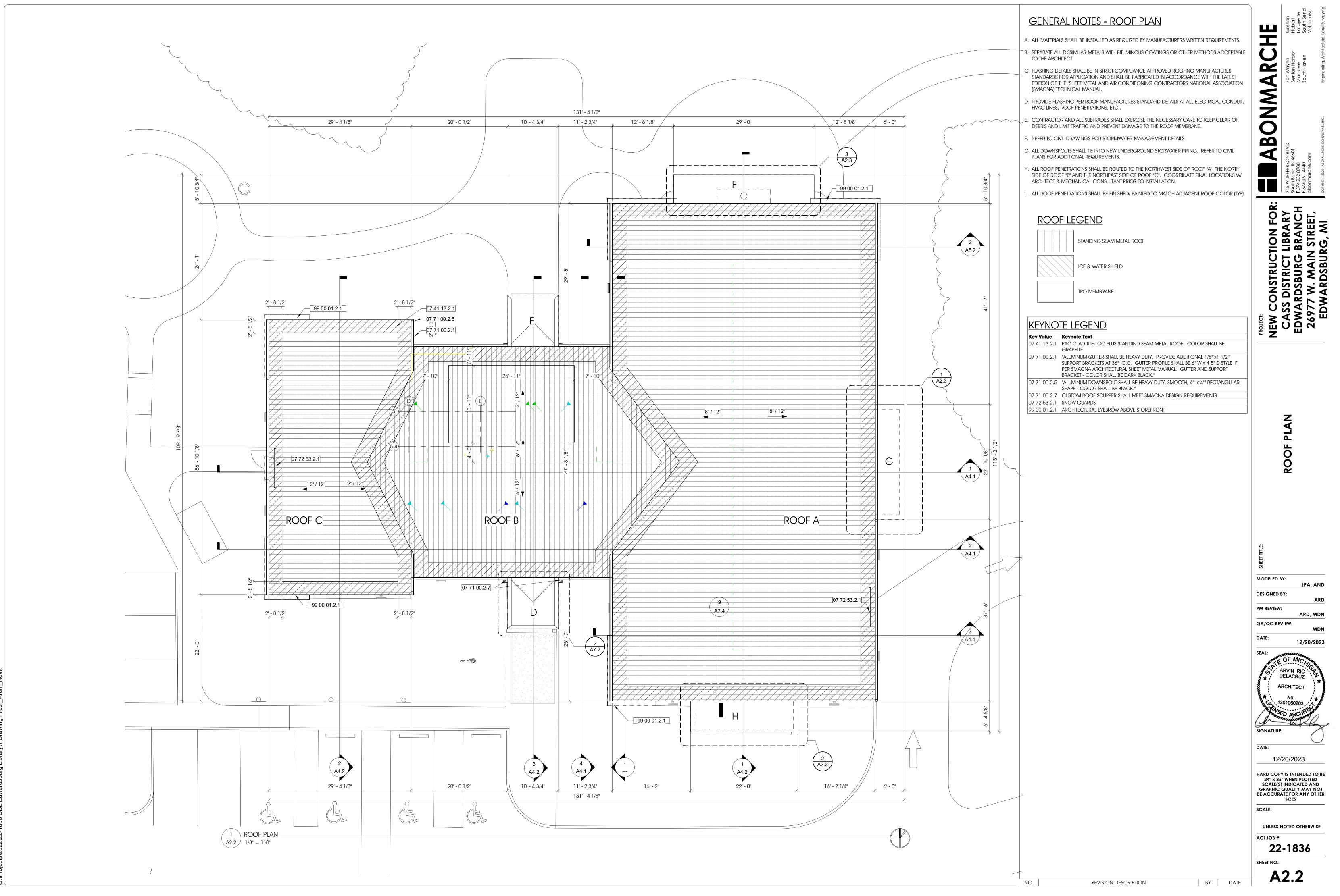
SUSPENDED ACOUSTIC TILE: 24"X24"

HARD CEILING: 5/8" GYPSUM BOARD

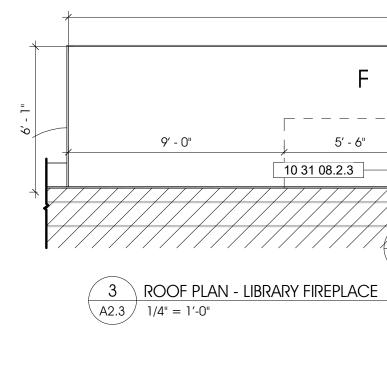
FLAT CEILING & SOFFIT

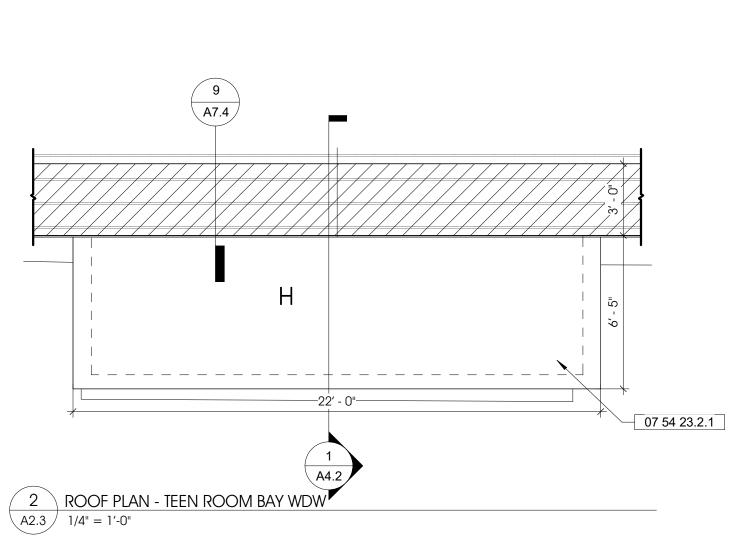
SLOPED CEILING

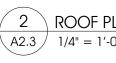
P-LAM

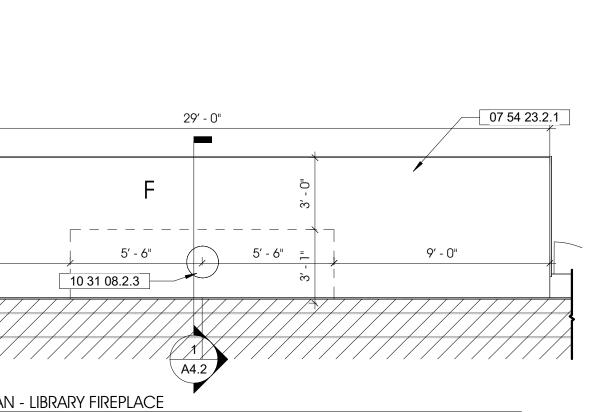


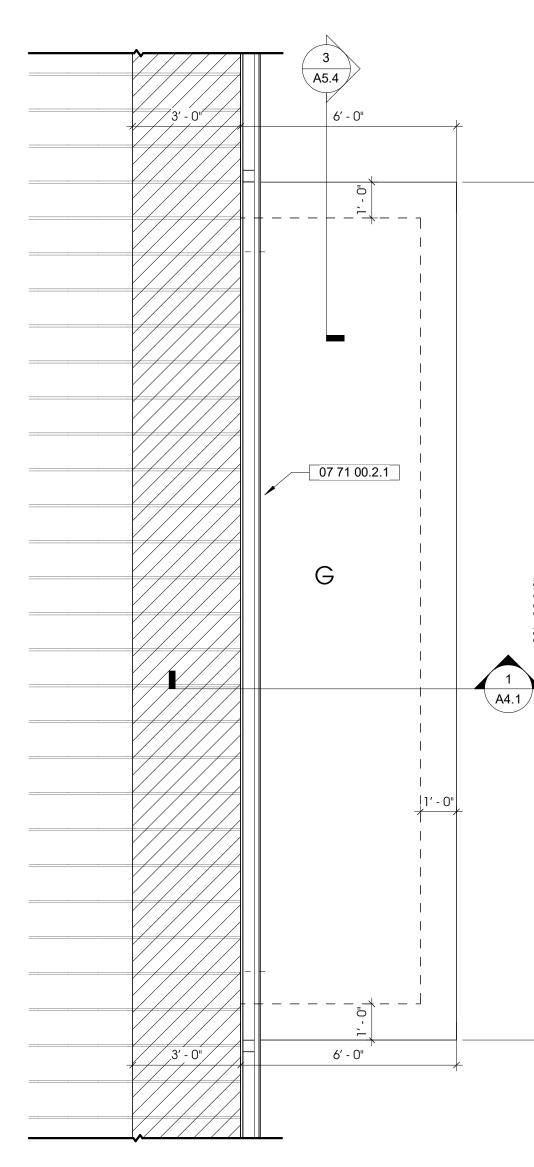
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 1
 ROOF PLAN - LIBRARY BAY WDW

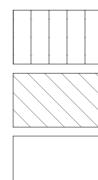
 A2.3
 3/8" = 1'-0"

# <u>GENERAL NOTES - ROOF PLAN</u>

A. ALL MATERIALS SHALL BE INSTALLED AS REQUIRED BY MANUFACTURERS WRITTEN REQUIREMENTS.

- B. SEPARATE ALL DISSIMILAR METALS WITH BITUMINOUS COATINGS OR OTHER METHODS ACCEPTABLE TO THE ARCHITECT.
- C. FLASHING DETAILS SHALL BE IN STRICT COMPLIANCE APPROVED ROOFING MANUFACTURES STANDARDS FOR APPLICATION AND SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF THE "SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) TECHNICAL MANUAL.
- D. PROVIDE FLASHING PER ROOF MANUFACTURES STANDARD DETAILS AT ALL ELECTRICAL CONDUIT, HVAC LINES, ROOF PENETRATIONS, ETC..
- E. CONTRACTOR AND ALL SUBTRADES SHALL EXERCISE THE NECESSARY CARE TO KEEP CLEAR OF DEBRIS AND LIMIT TRAFFIC AND PREVENT DAMAGE TO THE ROOF MEMBRANE.
- F. REFER TO CIVIL DRAWINGS FOR STORMWATER MANAGEMENT DETAILS
- G. ALL DOWNSPOUTS SHALL TIE INTO NEW UNDERGROUND STORWATER PIPING. REFER TO CIVIL PLANS FOR ADDITIONAL REQUIREMENTS. H. ALL ROOF PENETRATIONS SHALL BE ROUTED TO THE NORTHWEST SIDE OF ROOF "A", THE NORTH
- SIDE OF ROOF "B" AND THE NORTHEAST SIDE OF ROOF "C". COORDINATE FINAL LOCATIONS W/ ARCHTECT & MECHANICAL CONSULTANT PRIOR TO INSTALLATION.
- I. ALL ROOF PENETRATIONS SHALL BE FINISHED/ PAINTED TO MATCH ADJACENT ROOF COLOR (TYP).

# <u>ROOF LEGEND</u>

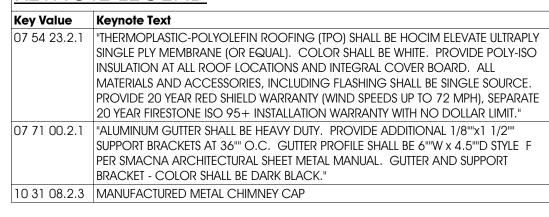


ICE & WATER SHIELD

STANDING SEAM METAL ROOF

TPO MEMBRANE

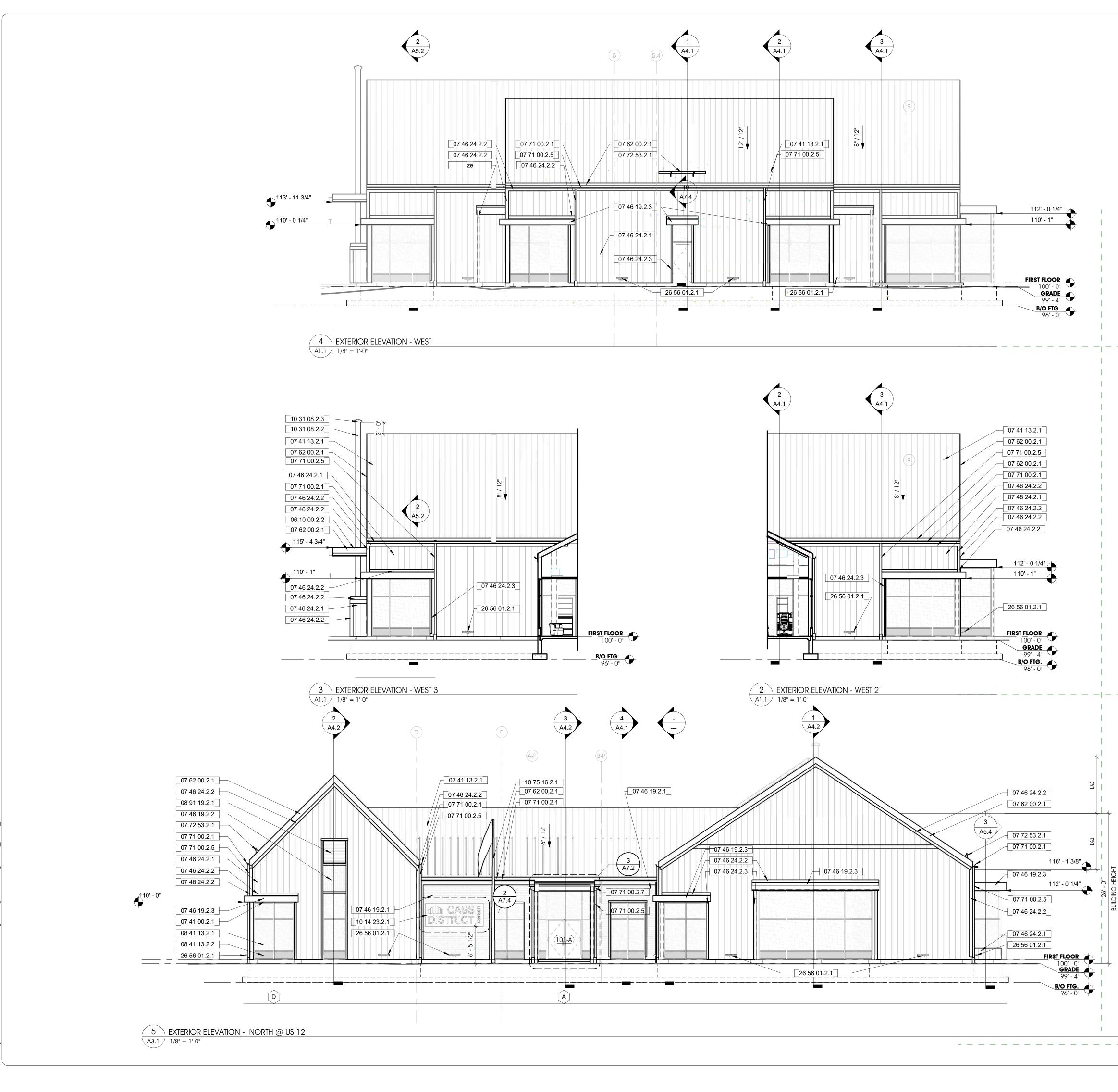
# KEYNOTE LEGEND



MARCH	Fort Wayne Benton Harbor Manistee South Haven	Engineering, Architectu
	315 W JEFFERSON BLVD South Bend, IN 46601 <b>T</b> 574.232.8700 <b>F</b> 574.251.4440 abonmarche.com	COPYRIGHT 2020 - ABONMARCHE CONSULTANTS, INC.
PROJECT: NEW CONSTRUCTION FOR:	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH 26977 W. MAIN STREET,	EDWARDSBURG, MI
	ROOF DETAILS	
A SIGNATURE DATE: 12/ HARD COP 24" x 36 SCALE: UNLESS ACI JOB # 222 SHEET NO.	JPA, A BY: ARD, N VIEW: N 12/20/2 OF M/C ARVIN RIC DELACRUZ RCHITECT No. 301060203 ED ARCY	ARD ADN 2023

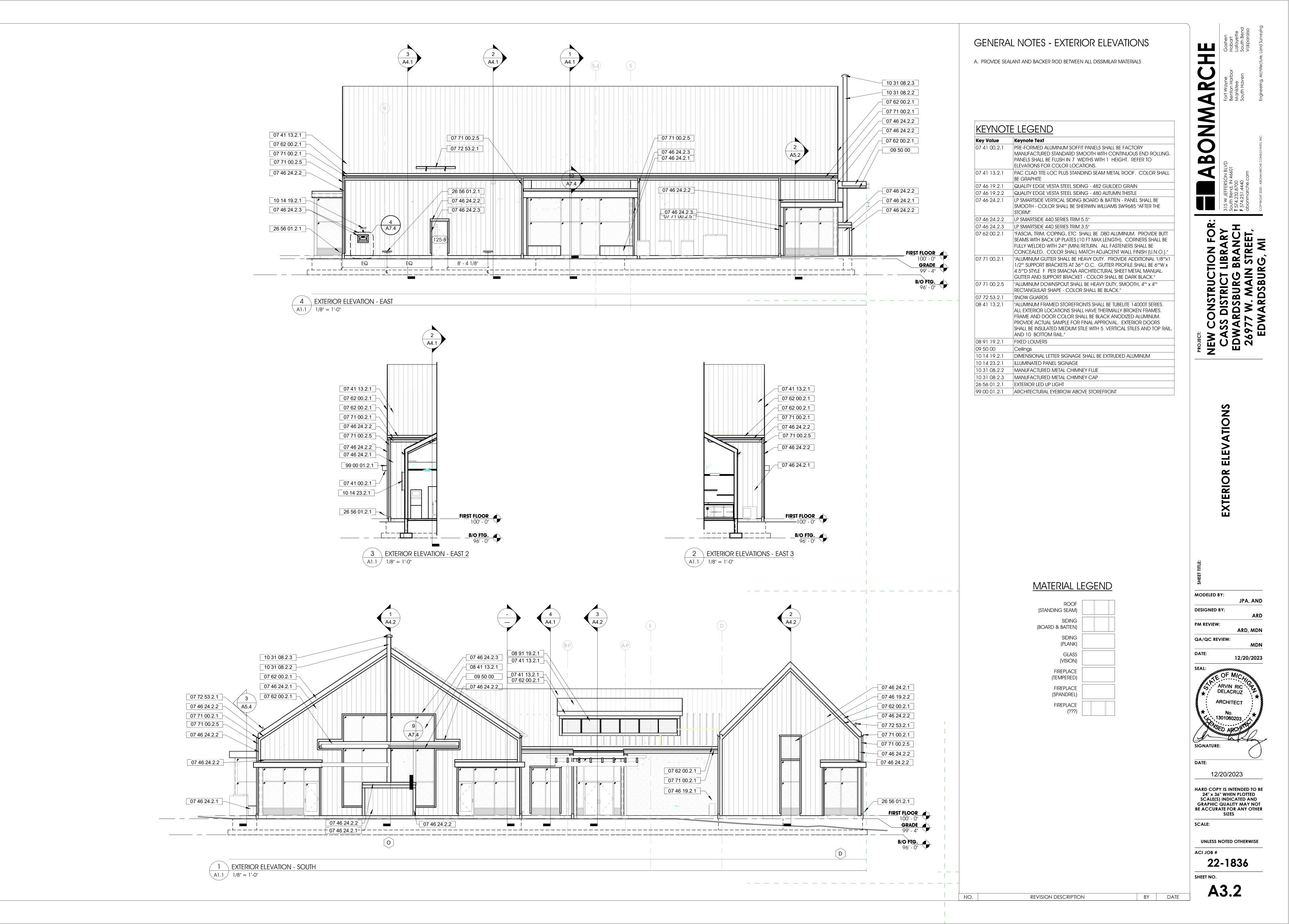


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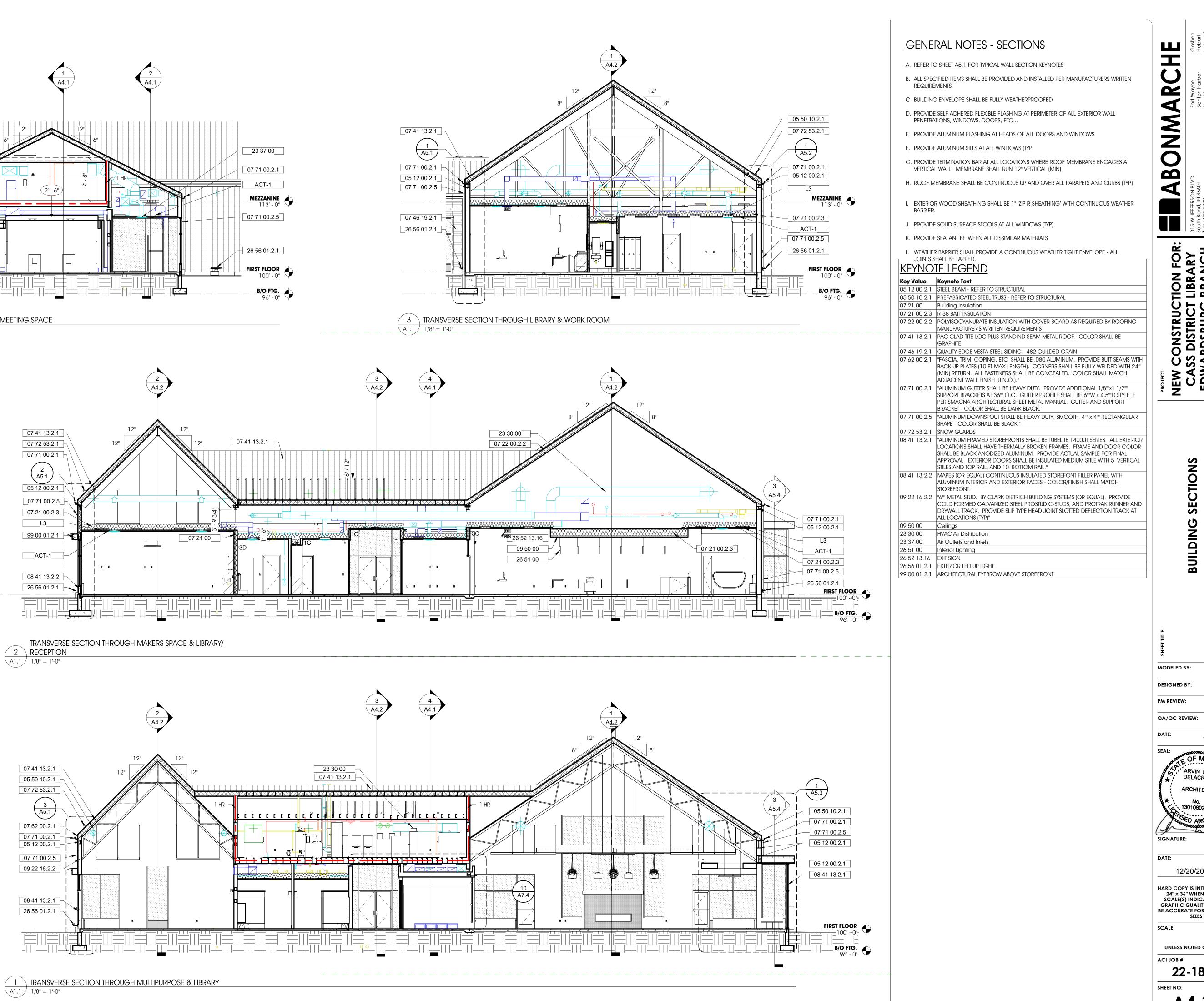
/Projects/2022/22-1836 CDL Edwardsburg Library/1 Drawing Files/ Arch/ Revit

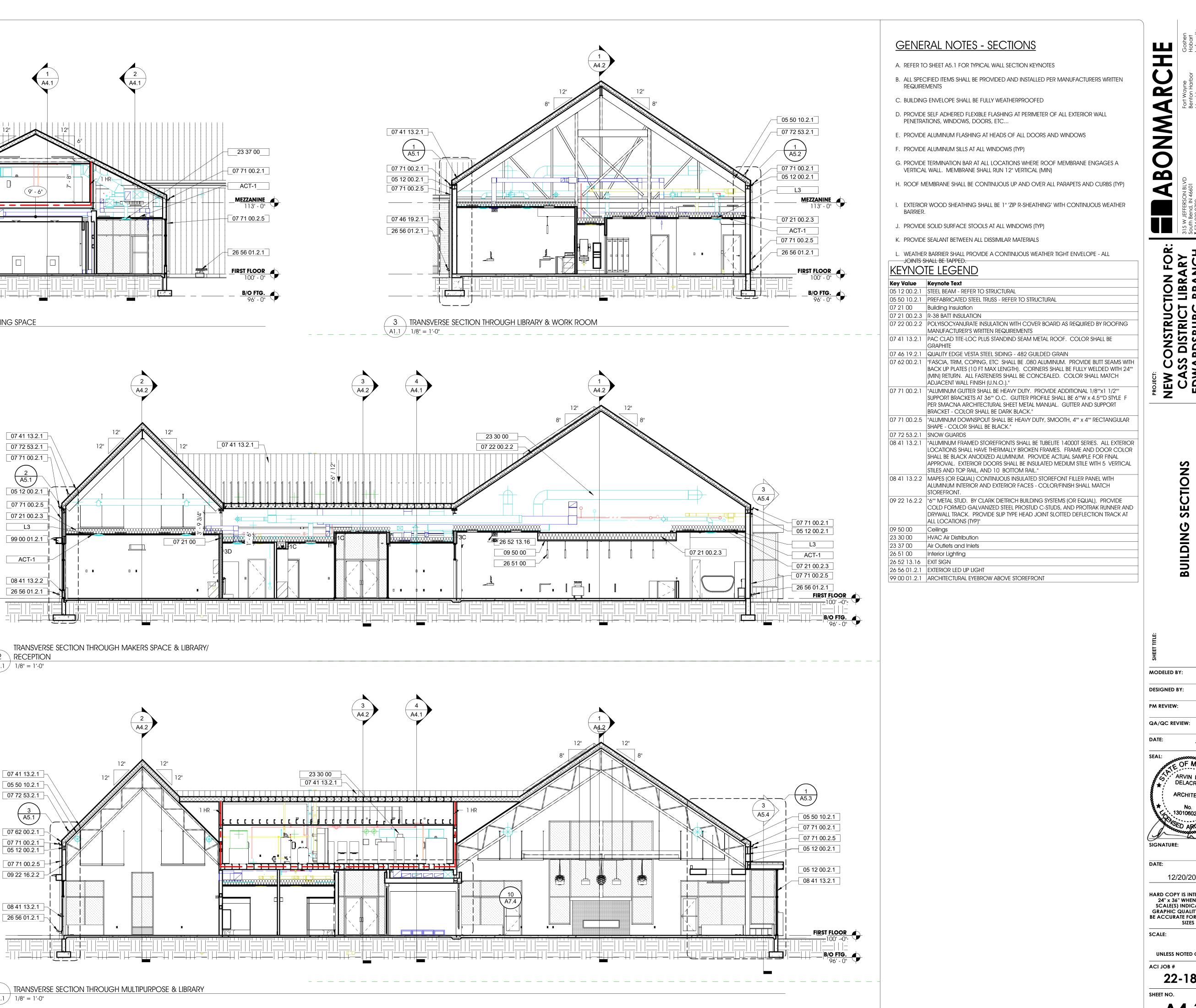
	GENERAL NOTES - EXTERIOR ELEVATIONS A. PROVIDE SEALANT AND BACKER ROD BETWEEN ALL DISSIMILAR MATERIALS		ARACHE Goshen Fort Wayne Goshen Benton Harbor Manistee Goshen South Haven Lafayette South Haven Valparaiso Engineering, Architecture, Land Surveying
			ONMARRO Fort wayne Benton Harbor Manistee South Haven South Haven
	KEYNIOT	TE LEGEND	
	Key Value           06 10 00.2.2           07 41 00.2.1	Keynote Text         TREATED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS         EXPOSED TO MOISTURE, EXTERIOR BUILDING ENVELOPE, ADJACENT TO         CONCRETE OR MASONRY, AND AS OTHERWISE REQUIRED.""         PRE-FORMED ALUMINUM SOFFIT PANELS SHALL BE FACTORY         MANUFACTURED STANDARD SMOOTH WITH CONTINUOUS END ROLLING.	
	07 41 13.2.1	PANELS SHALL BE FLUSH IN 7 WIDTHS WITH 1 HEIGHT. REFER TO         ELEVATIONS FOR COLOR LOCATIONS.         PAC CLAD TITE-LOC PLUS STANDIND SEAM METAL ROOF. COLOR SHALL         BE GRAPHITE         QUALITY EDGE VESTA STEEL SIDING - 482 GUILDED GRAIN	ON FOR: IBRARY STREET, MI
	07 46 19.2.2 07 46 19.2.3 07 46 24.2.1	QUALITY EDGE VESTA STEEL SIDING - 480 AUTUMN THISTLEQUALITY EDGE VESTA STEEL FASCIA AND TRIM - 480 AUTUMN THISTLELP SMARTSIDE VERTICAL SIDING BOARD & BATTEN - PANEL SHALL BESMOOTH - COLOR SHALL BE SHERWIN WILLIAMS SW9685 "AFTER THE STORM"	
	07 46 24.2.2 07 46 24.2.3 07 62 00.2.1	LP SMARTSIDE 440 SERIES TRIM 5.5"         LP SMARTSIDE 440 SERIES TRIM 3.5"         "FASCIA, TRIM, COPING, ETC SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24"" (MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH ADJACENT WALL FINISH (U.N.O.)."	CONSTRU SS DISTRIC ARDSBUR 77 W. MA
	07 71 00.2.1	"ALUMINUM GUTTER SHALL BE HEAVY DUTY. PROVIDE ADDITIONAL 1/8""x1 1/2"" SUPPORT BRACKETS AT 36"" O.C. GUTTER PROFILE SHALL BE 6""W x 4.5""D STYLE F PER SMACNA ARCHITECTURAL SHEET METAL MANUAL. GUTTER AND SUPPORT BRACKET - COLOR SHALL BE DARK BLACK." "ALUMINUM DOWNSPOUT SHALL BE HEAVY DUTY, SMOOTH, 4"" x 4""	PROJECT NEW C CASS EDWA 2697
	07 71 00.2.7 07 72 53.2.1 08 41 13.2.1	RECTANGULAR SHAPE - COLOR SHALL BE BLACK."CUSTOM ROOF SCUPPER SHALL MEET SMACNA DESIGN REQUIREMENTSSNOW GUARDS"ALUMINUM FRAMED STOREFRONTS SHALL BE TUBELITE 14000T SERIES.ALL EXTERIOR LOCATIONS SHALL HAVE THERMALLY BROKEN FRAMES.FRAME AND DOOR COLOR SHALL BE BLACK ANODIZED ALUMINUM.PROVIDE ACTUAL SAMPLE FOR FINAL APPROVAL. EXTERIOR DOORS	
	08 41 13.2.2	FROVIDE ACTUAL SAMPLE FOR FINAL AFFROVAL. EXTERIOR DOORS         SHALL BE INSULATED MEDIUM STILE WITH 5 VERTICAL STILES AND TOP RAIL,         AND 10 BOTTOM RAIL."         MAPES (OR EQUAL) CONTINUOUS INSULATED STOREFONT FILLER PANEL         WITH ALUMINUM INTERIOR AND EXTERIOR FACES - COLOR/FINISH SHALL         MATCH STOREFRONT.         FIXED LOUVERS	ATIONS
	10 14 23.2.1 10 31 08.2.2 10 31 08.2.3 10 75 16.2.1	ILLUMINATED PANEL SIGNAGE         MANUFACTURED METAL CHIMNEY FLUE         MANUFACTURED METAL CHIMNEY CAP         "GROUND SET ALUMINUM FLAGPOLE SHALL BE 25'-0""H WITH GOLD BALL         TOPPER AND LED LIGHTING (FLAG SHALL BE BY OWNER) - REFER TO CIVIL	R ELEV
	26 56 01.2.1	DRAWINGS FOR ADDITIONAL INFORMATION" EXTERIOR LED UP LIGHT	EXTERIO
			μ
			SHEET TITLE:
			MODELED BY: JPA, AND DESIGNED BY: ARD
			PM REVIEW: ARD, MDN QA/QC REVIEW: MDN DATE:
			SEAL: SEAL: SEAL: OF M/CA/ONO ARVIN RIC DELACRUZ
1			ARCHITECT
			SIGNATURE:
			DATE: <u>12/20/2023</u> HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED
			SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZES SCALE:
			UNLESS NOTED OTHERWISE ACI JOB # 22-1836



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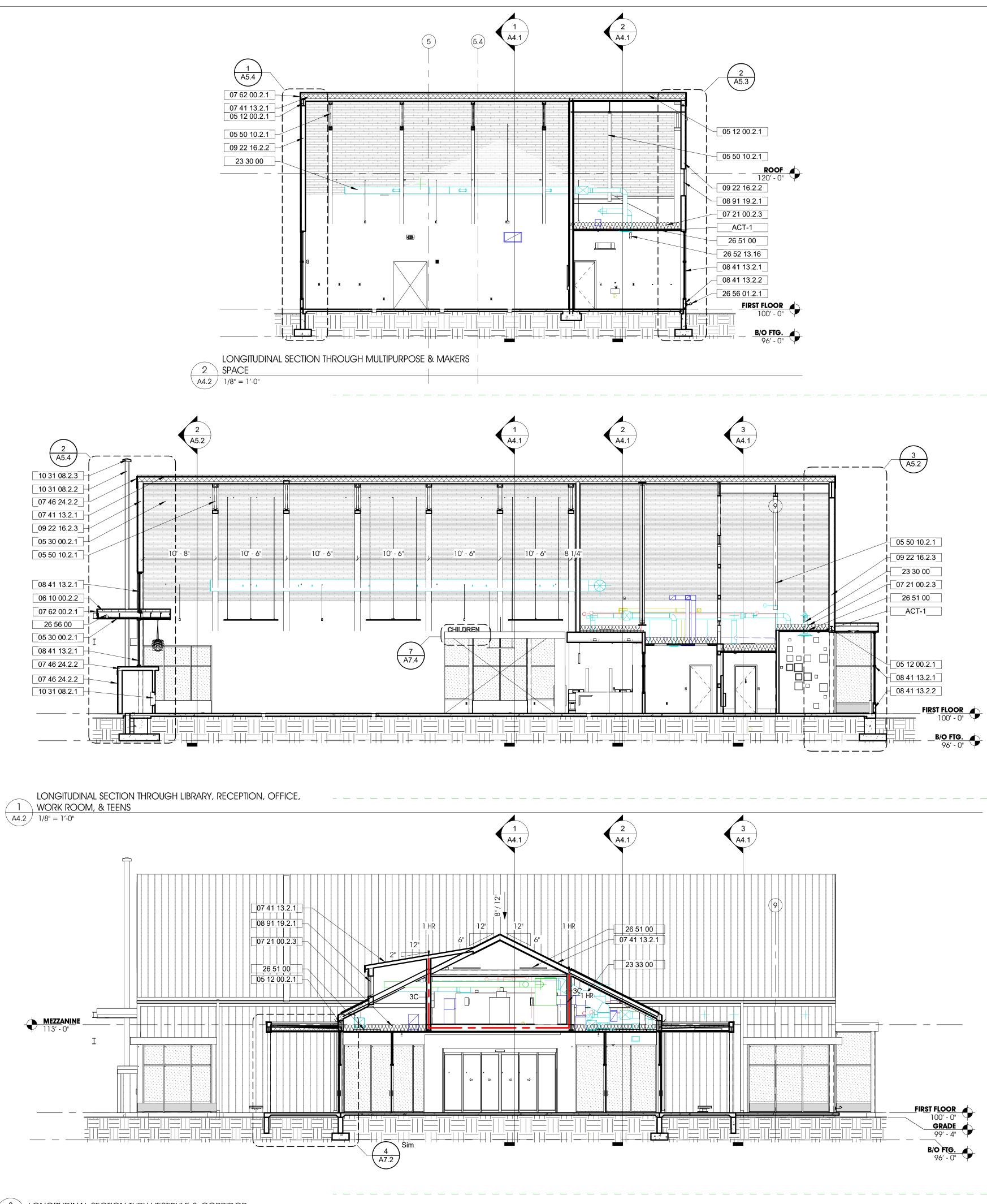
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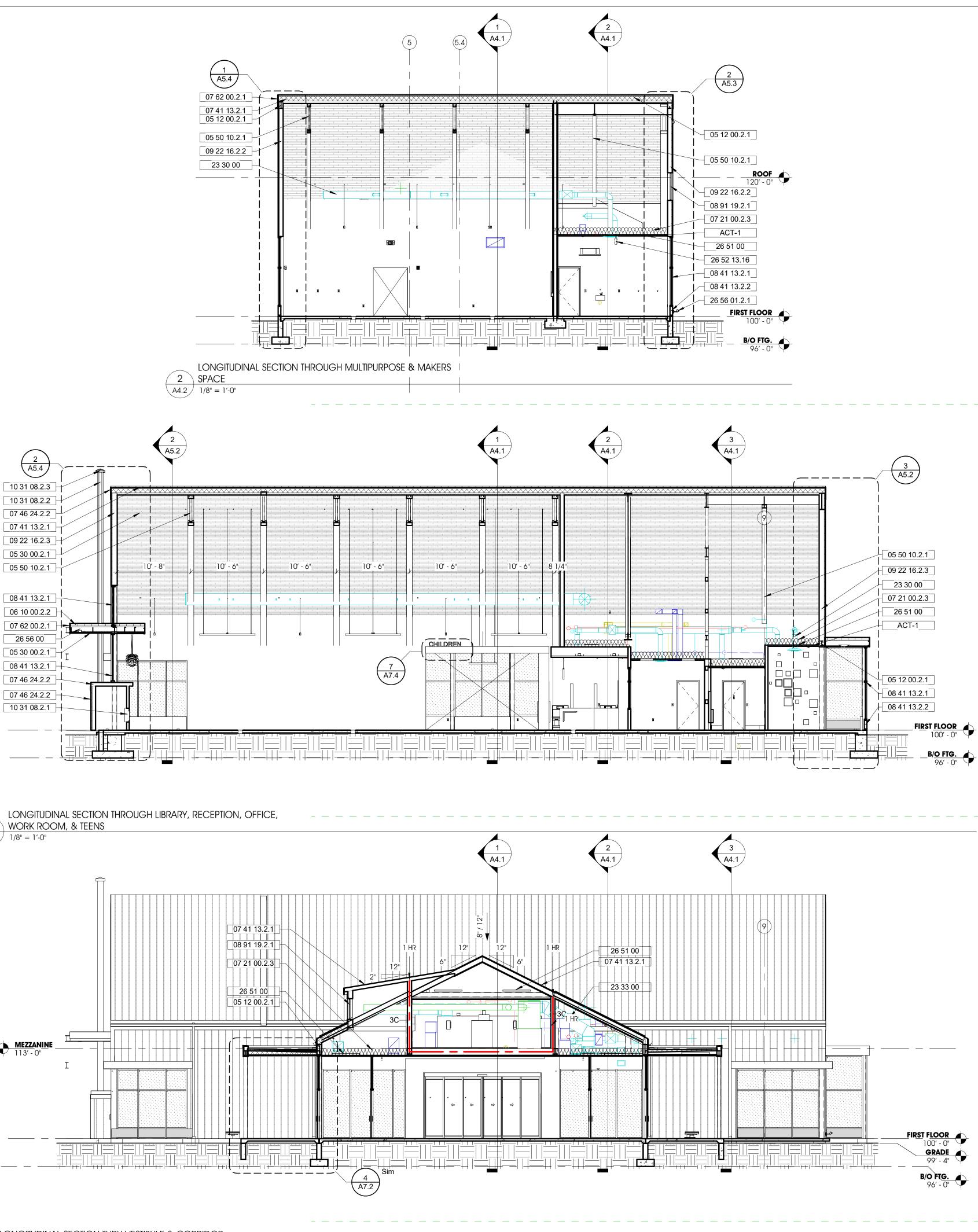
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#### **GENERAL NOTES - SECTIONS**

- A. REFER TO SHEET A5.1 FOR TYPICAL WALL SECTION KEYNOTES
- B. ALL SPECIFIED ITEMS SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS WRITTEN REQUIREMENTS
- C. BUILDING ENVELOPE SHALL BE FULLY WEATHERPROOFED
- D. PROVIDE SELF ADHERED FLEXIBLE FLASHING AT PERIMETER OF ALL EXTERIOR WALL PENETRATIONS, WINDOWS, DOORS, ETC...
- E. PROVIDE ALUMINUM FLASHING AT HEADS OF ALL DOORS AND WINDOWS
- F. PROVIDE ALUMINUM SILLS AT ALL WINDOWS (TYP)
- G. PROVIDE TERMINATION BAR AT ALL LOCATIONS WHERE ROOF MEMBRANE ENGAGES A VERTICAL WALL. MEMBRANE SHALL RUN 12" VERTICAL (MIN)
- H. ROOF MEMBRANE SHALL BE CONTINUOUS UP AND OVER ALL PARAPETS AND CURBS (TYP)
- I. EXTERIOR WOOD SHEATHING SHALL BE 1" 'ZIP R-SHEATHING' WITH CONTINUOUS WEATHER BARRIER.
- J. PROVIDE SOLID SURFACE STOOLS AT ALL WINDOWS (TYP)
- K. PROVIDE SEALANT BETWEEN ALL DISSIMILAR MATERIALS
- L. WEATHER BARRIER SHALL PROVIDE A CONTINUOUS WEATHER TIGHT ENVELOPE ALL JOINTS SHALL BE TAPPED.

KEYNOTE LEGEND			
Key Value	Keynote Text		
05 12 00.2.1	STEEL BEAM - REFER TO STRUCTURAL		
05 30 00.2.1	METAL DECK - REFER TO STRUCTURAL		
05 50 10.2.1	PREFABRICATED STEEL TRUSS - REFER TO STRUCTURAL		
06 10 00.2.2	TREATED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS EXPOSED TO MOISTURE, EXTERIOR BUILDING ENVELOPE, ADJACENT TO CONCRETE OR MASONRY AND AS OTHERWISE REQUIRED.""		
07 21 00.2.3	R-38 BATT INSULATION		
07 41 13.2.1	PAC CLAD TITE-LOC PLUS STANDIND SEAM METAL ROOF. COLOR SHALL BE GRAPHITE		
07 46 24.2.2	LP SMARTSIDE 440 SERIES TRIM 5.5"		
07 62 00.2.1	"FASCIA, TRIM, COPING, ETC SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24"" (MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH ADJACENT WALL FINISH (U.N.O.)."		
08 41 13.2.1	"ALUMINUM FRAMED STOREFRONTS SHALL BE TUBELITE 14000T SERIES. ALL EXTERIOR LOCATIONS SHALL HAVE THERMALLY BROKEN FRAMES. FRAME AND DOOR COLOR SHALL BE BLACK ANODIZED ALUMINUM. PROVIDE ACTUAL SAMPLE FOR FINAL APPROVAL. EXTERIOR DOORS SHALL BE INSULATED MEDIUM STILE WITH 5 VERTICAL STILES AND TOP RAIL, AND 10 BOTTOM RAIL."		
08 41 13.2.2	MAPES (OR EQUAL) CONTINUOUS INSULATED STOREFONT FILLER PANEL WITH ALUMINUM INTERIOR AND EXTERIOR FACES - COLOR/FINISH SHALL MATCH STOREFRONT.		
08 91 19.2.1	FIXED LOUVERS		
09 22 16.2.2	"6"" METAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE COLD FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND DRYWALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT ALL LOCATIONS (TYP)"		
09 22 16.2.3	8" METAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE COLD FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND DRYWALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT ALL LOCATIONS (TYP)"		
10 31 08.2.1	MANUFACTURED ELECTRIC FIREPLACE		
10 31 08.2.2	MANUFACTURED METAL CHIMNEY FLUE		
10 31 08.2.3	MANUFACTURED METAL CHIMNEY CAP		
23 30 00	HVAC Air Distribution		
23 33 00	Air Duct Accessories		
26 51 00	Interior Lighting		
26 52 13.16	EXIT SIGN		
26 56 00	Exterior Lighting		

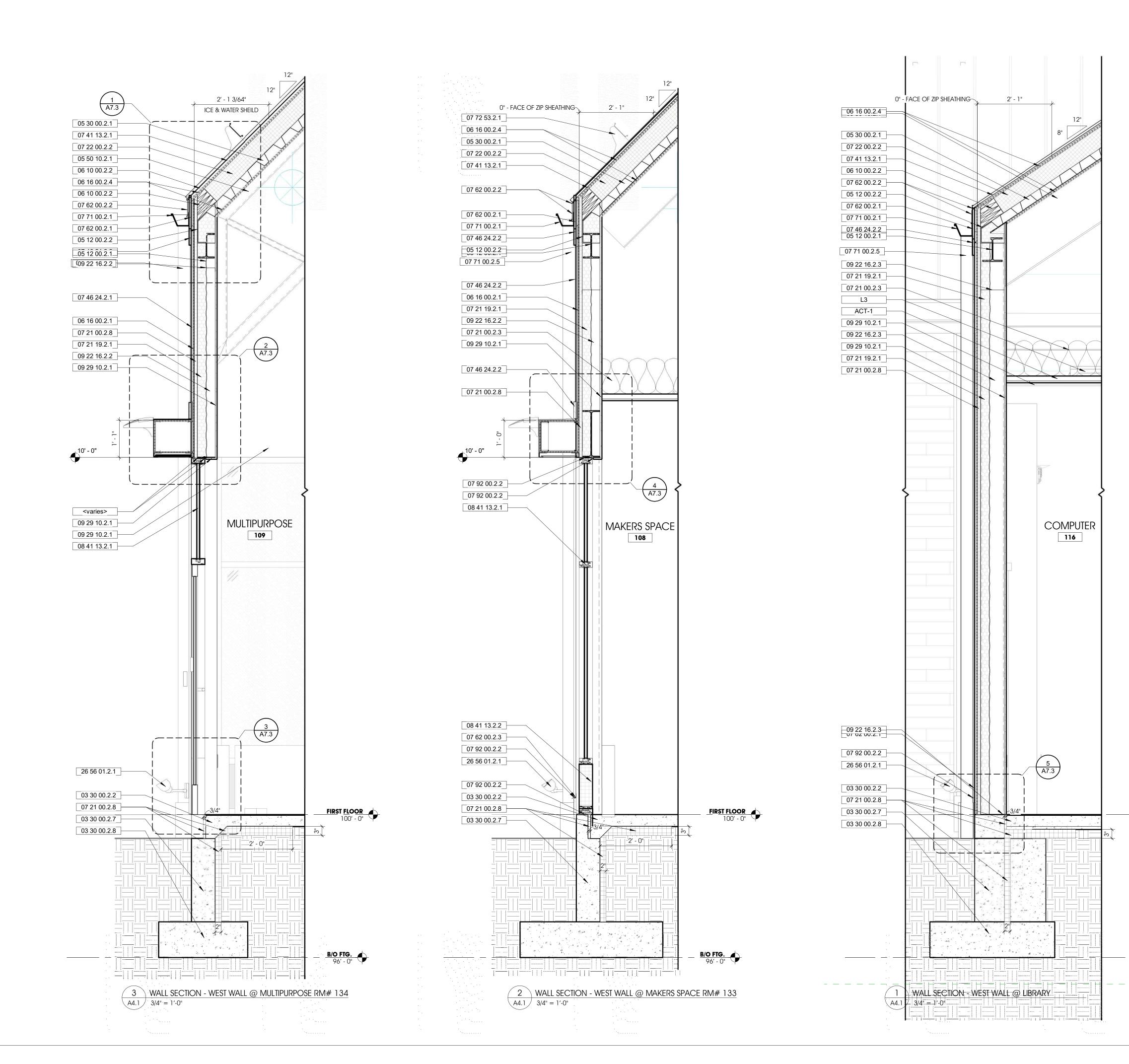
26 56 00Exterior Lighting26 56 01.2.1EXTERIOR LED UP LIGHT



50 10.2.1
22 16.2.3
3 30 00
21 00.2.3
6 51 00
ACT-1

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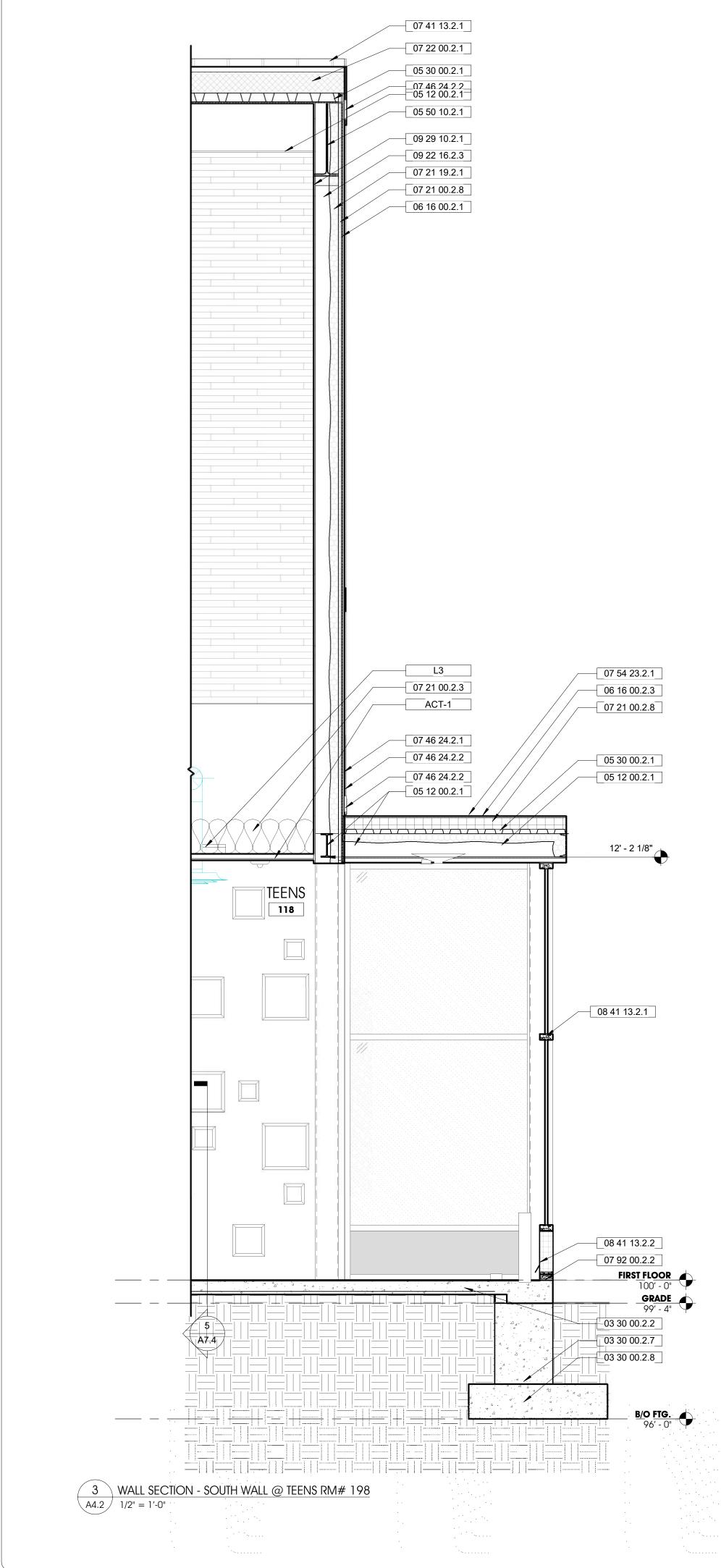
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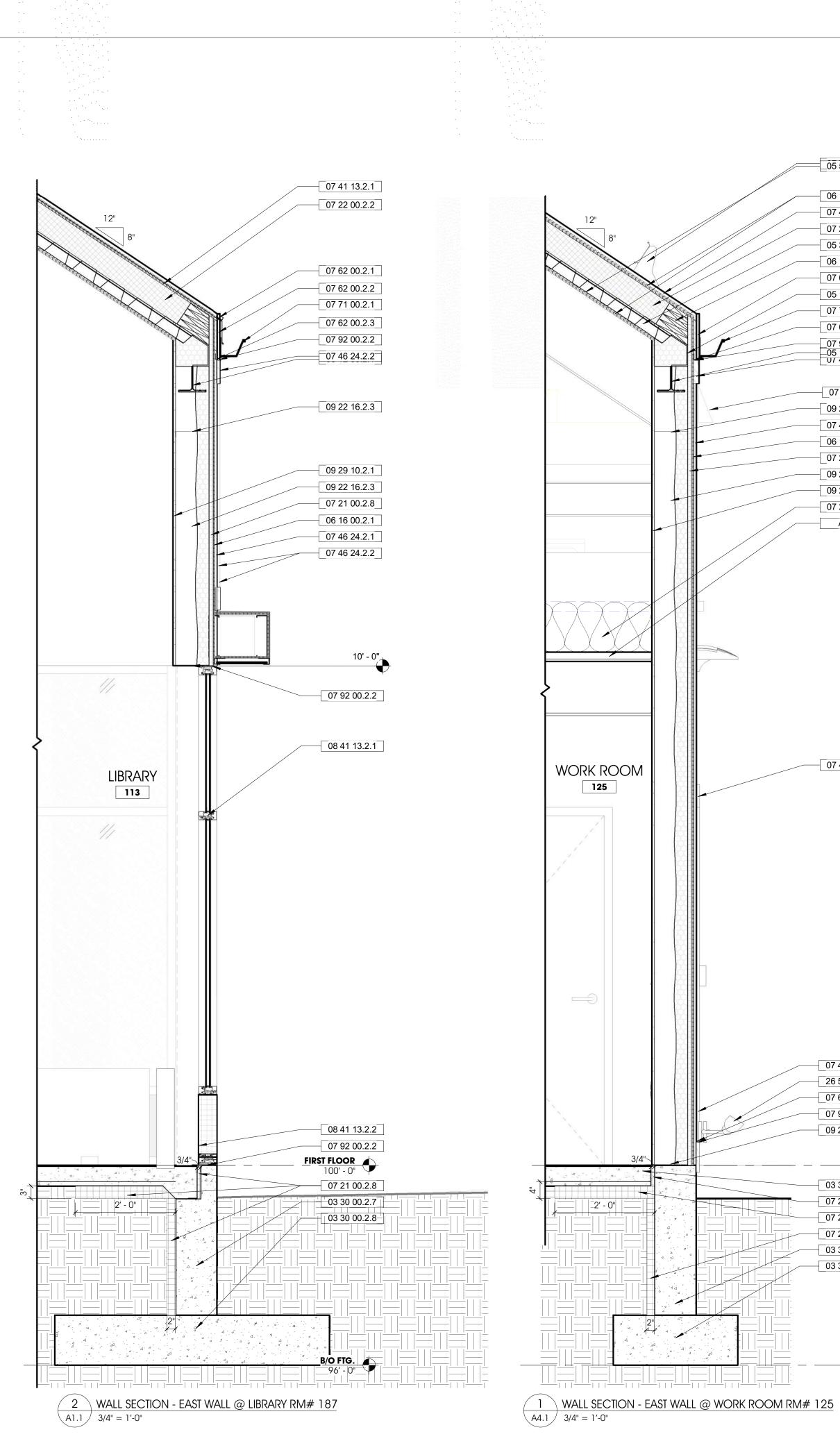


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COMPO	SCALE DRAWINGS. USE INDICATED DIMENSIONS ONLY.	Yne Arrbor aven
C. SHOULD FROM TH	A CONTRACTOR FIND DISCREPANCIES OR AMBIGUITIES IN OR OMISSIONS HE DRAWINGS OR SPECIFICATIONS, OR BE IN DOUBT ABOUT THEIR MEANING, JTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.	Fort Wayne Benton Harbor Manistee South Haven
	CTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB DURING CONSTRUCTION LAYOUT VISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.	
& ADVISI	CTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS ON-SITE NG ARCHITECT OF ANY DISCREPANCIES WITH DEMOLITION OR NEW WORK PLANS O PERFORMING ANY WORK.	BONMAR Benton Ha Manistee South Have
	CTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY UNFORESEEN STRUCTURAL OR ELATED ISSUES ARISE DURING DEMOLITION OR EXCAVATION.	ol 01
g. all spec Require	CIFIED ITEMS SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS WRITTEN MENTS	<b>1</b> 574.251.4440 <b>1</b> 574.251.4440
H. Weathei Shall Be	R BARRIER SHALL PROVIDE A CONTINUOUS WEATHER TIGHT ENVELOPE - ALL JOINTS TAPED	315 W J South Be 574.23 abonm
KEYNO	TE LEGEND	Ë, T
<b>Key Value</b> 03 30 00.2.2	Keynote Text INTERIOR CONCRETE SLAB OVER CONTINUOUS VAPOR BARRIER AND 6 INCH	ARY NCI EET,
03 30 00.2.7	PROPERLY COMPACTED BASE. PROVIDE CONCRETE DENSIFIER/HARDENER TO SEAL CONCRETE FLOOR - REFER TO STRUCTURAL FOR ADDITIONAL REQUIREMENTS CONCRETE FOUNDATION - REFER TO STRUCTURAL	ON BR/ STR
03 30 00.2.8	CONCRETE FOOTING- REFER TO STRUCTURAL STEEL BEAM - REFER TO STRUCTURAL	
05 12 00.2.2 05 30 00.2.1	STEEL CLIP ANGLE - REFER TO STRUCTURAL METAL DECK - REFER TO STRUCTURAL	
05 50 10.2.1 06 10 00.2.2	PREFABRICATED STEEL TRUSS - REFER TO STRUCTURAL TREATED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS EXPOSED TO MOISTURE, EXTERIOR BUILDING ENVELOPE, ADJACENT TO CONCRETE OR MASONRY,	NSI NSI NSI NSI
06 16 00.2.1	AND AS OTHERWISE REQUIRED."" ZIP R-6 INSULATED WALL SHEATHING AND WEATHER BARRIER SYSTEM. PROVIDE ZIP	AR CC
	System Tape at all seams and between roof and wall sheathing (typ) for a complete weather barrier system by huber engineered woods, www.huberwood.com, 1-800-933-9220	s Ω Ω Ω S
07 21 00.2.3	3/4" PLYWOOD ROOF SHEATHING WITH "H" CLIPS OR "T&G" R-38 BATT INSULATION	
07 21 00.2.8 07 21 19.2.1	"XPS RIGID INSULATION - PROVIDE TYPE IV AT ALL CAVITY WALL LOCATIONS, TYPE VI AT ALL FOUNDATION WALL LOCATIONS, AND TYPE VII AT ALL UNDER SLAB LOCATIONS" "3"" (MIN) CLOSED CELL SPRAY POLYURETHANE FOAM INSULATION AND VAPOR	
07 22 00.2.2	BARRIER SYSTEM" POLYISOCYANURATE INSULATION WITH COVER BOARD AS REQUIRED BY ROOFING MANUFACTURER'S WRITTEN REQUIREMENTS	
07 41 13.2.1	PAC CLAD TITE-LOC PLUS STANDIND SEAM METAL ROOF. COLOR SHALL BE GRAPHITE	
07 46 24.2.1	LP SMARTSIDE VERTICAL SIDING BOARD & BATTEN - PANEL SHALL BE SMOOTH - COLOR SHALL BE SHERWIN WILLIAMS SW9685 "AFTER THE STORM" LP SMARTSIDE 440 SERIES TRIM 5.5"	S
07 62 00.2.1	"FASCIA, TRIM, COPING, ETC SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24"" (MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH ADJACENT WALL FINISH (U.N.O.)."	SECTIONS
07 62 00.2.3	STAINLESS STEEL FLASHING THROUGH WALL FLASHING	SE
07 71 00.2.1	"ALUMINUM GUTTER SHALL BE HEAVY DUTY. PROVIDE ADDITIONAL 1/8""x1 1/2"" SUPPORT BRACKETS AT 36"" O.C. GUTTER PROFILE SHALL BE 6""W x 4.5""D STYLE F PER SMACNA ARCHITECTURAL SHEET METAL MANUAL. GUTTER AND SUPPORT	
07 71 00.2.5	BRACKET - COLOR SHALL BE DARK BLACK." "ALUMINUM DOWNSPOUT SHALL BE HEAVY DUTY, SMOOTH, 4"" x 4"" RECTANGULAR SHAPE - COLOR SHALL BE BLACK."	3
07 72 53.2.1 07 92 00.2.2	SNOW GUARDS SEALANT AND BACKER ROD SHALL BE PROVIDED BETWEEN ALL DISSIMILAR BUILDING	
08 41 13.2.1	ENVELOPE MATERIALS PER SEALANT MANUFACTURERS WRITTEN REQUIREMENTS. (TYP) "ALUMINUM FRAMED STOREFRONTS SHALL BE TUBELITE 14000T SERIES. ALL EXTERIOR LOCATIONS SHALL HAVE THERMALLY BROKEN FRAMES. FRAME AND DOOR COLOR SHALL BE BLACK ANODIZED ALUMINUM. PROVIDE ACTUAL SAMPLE FOR FINAL APPROVAL. EXTERIOR DOORS SHALL BE INSULATED MEDIUM STILE WITH 5 VERTICAL	
08 41 13.2.2	STILES AND TOP RAIL, AND 10 BOTTOM RAIL." MAPES (OR EQUAL) CONTINUOUS INSULATED STOREFONT FILLER PANEL WITH ALUMINUM INTERIOR AND EXTERIOR FACES - COLOR/FINISH SHALL MATCH	SHEET TITLE:
09 22 16.2.2	STOREFRONT. "6"" METAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE COLD FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND DRYWALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT	MODELED BY:
09 22 16.2.3	ALL LOCATIONS (TYP)" 8" METAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE COLD FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND DRYWALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT	AND, . DESIGNED BY:
09 29 10.2.1	ALL LOCATIONS (TYP)" GYPSUM WALL BOARD SHALL BE 5/8 (TYP). PROVIDE TYPE WR AT ALL TOILET ROOM AND WET WALL LOCATIONS. ALL OTHER LOCATIONS SHALL BE TYPE X (TYP).	ARD, N QA/QC REVIEW:
	PROVIDE MUDDABLE CORNER BEAD AND J TRIM AT ALL EXPOSED DRYWALL END AND OPENING LOCATIONS. EXPOSED DRYWALL FINISH SHALL BE LEVEL 4 (TYP).	DATE: 12/20/2
26 56 01.2.1	PROVIDE CONTROL JOINTS AT 30FT O.C. (MAX) EQUALLY SPACED. PROVIDE CONTROL JOINTS AT ALL DOOR AND WINDOW LOCATIONS. EXTERIOR LED UP LIGHT	SEAL:
		ARVIN RIC DELACRUZ
		1301060203
		SIGNATURE:
		12/20/2023
		HARD COPY IS INTENDED TO 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AN GRAPHIC QUALITY MAY N BE ACCURATE FOR ANY OT
		SCALE:
		22-1836

______FI<u>RST_FLOOR______</u>100' - 0"

**B/O FTG.** 96' - 0"





[	_05 50 10.2.1
[ [	06 16 00.2.4 07 41 13.2.1
[ [	07 22 00.2.2 05 30 00.2.1
[ [	06 10 00.2.2 07 62 00.2.1 05 12 00.2.2
[	07 71 00.2.1 07 62 00.2.3
	07 92 00.2.2 05 12 00.2.1 07 46 24.2.2
[	_07 71 00.2.5_ 09 22 16.2.3

[	09 22 16.2.3
	07 46 24.2.1
	06 16 00.2.1
	07 21 00.2.8
[	09 22 16.2.3
[	09 29 10.2.1
<u> </u>	07 21 00.2.3
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07 46 24.2.2

07 46 24.2.3

____26 56 01.2.1

<u> </u>	07 21 00.2.8
	07 21 00.2.8
	07 21 00.2.8
	03 30 00.2.7
	03 30 00.2.8

- **B/O FTG.** 96' - 0"

NO.

### **GENERAL NOTES - WALL SECTIONS**

- A. ALL CONTRACTORS ARE RESPONSIBLE FOR PROVIDING COMPLETE INSTALLATION OF ALL COMPONENTS AND SHALL COORDINATE THEIR SCOPE OF WORK WITH ALL OTHER TRADES PRIOR TO SUBMITTING BIDS TO ENSURE THERE ARE NO MISSING OR DUPLICATE COMPONENTS WITH-IN THEIR SCOPE
- B. DO NOT SCALE DRAWINGS. USE INDICATED DIMENSIONS ONLY.
- C. SHOULD A CONTRACTOR FIND DISCREPANCIES OR AMBIGUITIES IN OR OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, OR BE IN DOUBT ABOUT THEIR MEANING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.
- D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB DURING CONSTRUCTION LAYOUT AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.
- E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS ON-SITE & ADVISING ARCHITECT OF ANY DISCREPANCIES WITH DEMOLITION OR NEW WORK PLANS
- F. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY UNFORESEEN STRUCTURAL OR UTILITY RELATED ISSUES ARISE DURING DEMOLITION OR EXCAVATION.
- G. ALL SPECIFIED ITEMS SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS WRITTEN REQUIREMENTS
- H. WEATHER BARRIER SHALL PROVIDE A CONTINUOUS WEATHER TIGHT ENVELOPE ALL JOINTS Shall be taped

### KEYNOTE LEGEND

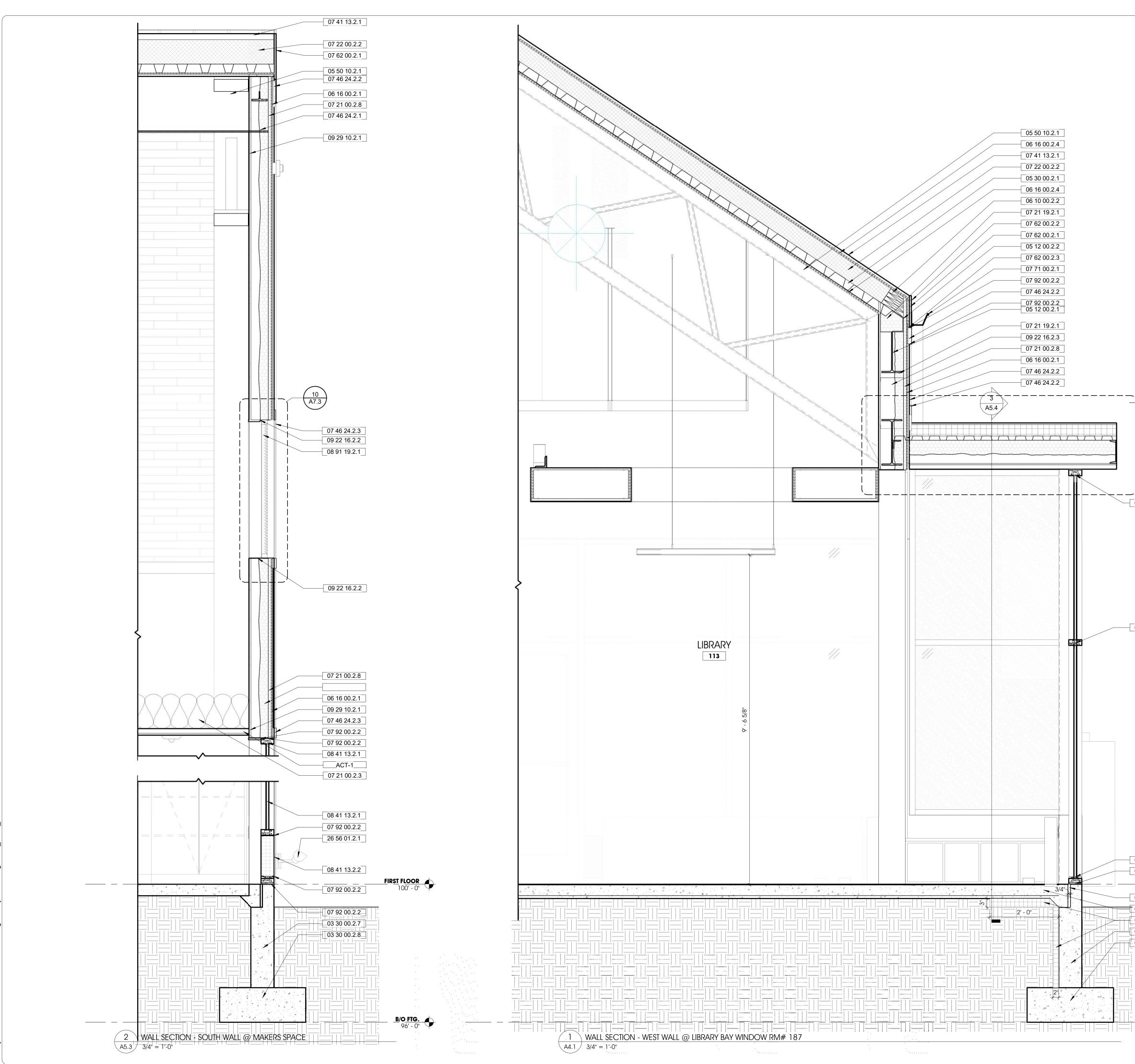
PRIOR TO PERFORMING ANY WORK.

03 30 00.2.2 II F	
03 30 00.2.2 II F	Keynote Text
F	NTERIOR CONCRETE SLAB OVER CONTINUOUS VAPOR BARRIER AND 6 INCH
	PROPERLY COMPACTED BASE. PROVIDE CONCRETE DENSIFIER/HARDENER TO SEAL
	CONCRETE FLOOR - REFER TO STRUCTURAL FOR ADDITIONAL REQUIREMENTS
03 30 00.2.7	CONCRETE FOUNDATION - REFER TO STRUCTURAL
03 30 00.2.8	CONCRETE FOOTING- REFER TO STRUCTURAL
05 12 00.2.1 S	STEEL BEAM - REFER TO STRUCTURAL
05 12 00.2.2 S	STEEL CLIP ANGLE - REFER TO STRUCTURAL
05 30 00.2.1 N	METAL DECK - REFER TO STRUCTURAL
05 50 10.2.1 F	PREFABRICATED STEEL TRUSS - REFER TO STRUCTURAL
N	REATED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS EXPOSED TO MOISTURE, EXTERIOR BUILDING ENVELOPE, ADJACENT TO CONCRETE OR MASONRY, AND AS OTHERWISE REQUIRED.""
06 16 00.2.1 Z	ZIP R-6 INSULATED WALL SHEATHING AND WEATHER BARRIER SYSTEM. PROVIDE ZIP SYSTEM TAPE AT ALL SEAMS AND BETWEEN ROOF AND WALL SHEATHING (TYP) FOR A COMPLETE WEATHER BARRIER SYSTEM BY HUBER ENGINEERED WOODS,
V	WWW.HUBERWOOD.COM, 1-800-933-9220
	3/4" PLYWOOD ROOF SHEATHING WITH "H" CLIPS OR "T&G"
	R-38 BATT INSULATION
	XPS RIGID INSULATION - PROVIDE TYPE IV AT ALL CAVITY WALL LOCATIONS, TYPE VI AT
A	ALL FOUNDATION WALL LOCATIONS, AND TYPE VII AT ALL UNDER SLAB LOCATIONS" 3"" (MIN) CLOSED CELL SPRAY POLYURETHANE FOAM INSULATION AND VAPOR
B	APERED RIGID INSULATION - POLY ISO
07 22 00.2.2 P	POLYISOCYANURATE INSULATION WITH COVER BOARD AS REQUIRED BY ROOFING MANUFACTURER'S WRITTEN REQUIREMENTS
07 41 13.2.1 F	PAC CLAD TITE-LOC PLUS STANDIND SEAM METAL ROOF. COLOR SHALL BE GRAPHITE
07 46 24.2.1 L	.P SMARTSIDE VERTICAL SIDING BOARD & BATTEN - PANEL SHALL BE SMOOTH - COLOR SHALL BE SHERWIN WILLIAMS SW9685 "AFTER THE STORM"
07 46 24.2.2 L	P SMARTSIDE 440 SERIES TRIM 5.5"
	.P SMARTSIDE 440 SERIES TRIM 3.5"
S	THERMOPLASTIC-POLYOLEFIN ROOFING (TPO) SHALL BE HOCIM ELEVATE ULTRAPLY SINGLE PLY MEMBRANE (OR EQUAL). COLOR SHALL BE WHITE. PROVIDE POLY-ISO NSULATION AT ALL ROOF LOCATIONS AND INTEGRAL COVER BOARD. ALL MATERIALS AND ACCESSORIES, INCLUDING FLASHING SHALL BE SINGLE SOURCE.
P	PROVIDE 20 YEAR RED SHIELD WARRANTY (WIND SPEEDS UP TO 72 MPH), SEPARATE 20 YEAR FIRESTONE ISO 95+ INSTALLATION WARRANTY WITH NO DOLLAR LIMIT."
E ((	FASCIA, TRIM, COPING, ETC SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24" MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH ADJACENT WALL FINISH (U.N.O.)."
07 62 00.2.2 S	STAINLESS STEEL FLASHING
07 71 00.2.1 ", S	Through Wall Flashing Aluminum Gutter Shall be heavy duty. Provide Additional 1/8""x1 1/2"" Support Brackets at 36"" O.C. Gutter Profile Shall be 6""W x 4.5""d Style F Per Smacna Architectural Sheet Metal Manual. Gutter and Support
B	ALUMINUM DOWNSPOUT SHALL BE HEAVY DUTY, SMOOTH, 4"" x 4"" RECTANGULAR
S	SHAPE - COLOR SHALL BE BLACK." SNOW GUARDS
	Sealant and backer rod shall be provided between all dissimilar building
E 08 41 13.2.1 ", L	ENVELOPE MATERIALS PER SEALANT MANUFACTURERS WRITTEN REQUIREMENTS. (TYP) ALUMINUM FRAMED STOREFRONTS SHALL BE TUBELITE 1 4000T SERIES. ALL EXTERIOR OCATIONS SHALL HAVE THERMALLY BROKEN FRAMES. FRAME AND DOOR COLOR SHALL BE BLACK ANODIZED ALUMINUM. PROVIDE ACTUAL SAMPLE FOR FINAL
A S	APPROVAL. EXTERIOR DOORS SHALL BE INSULATED MEDIUM STILE WITH 5 VERTICAL STILES AND TOP RAIL, AND 10 BOTTOM RAIL." MAPES (OR EQUAL) CONTINUOUS INSULATED STOREFONT FILLER PANEL WITH
S	ALUMINUM INTERIÓR AND EXTERIOR FACES - COLOR/FINISH SHALL MATCH STOREFRONT.
F	3" METAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE COLD FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND DRYWALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT ALL LOCATIONS (TYP)"
	GYPSUM WALL BOARD SHALL BE 5/8 (TYP). PROVIDE TYPE WR AT ALL TOILET ROOM AND WET WALL LOCATIONS. ALL OTHER LOCATIONS SHALL BE TYPE X (TYP). PROVIDE MUDDABLE CORNER BEAD AND J TRIM AT ALL EXPOSED DRIVALL END
F	AND OPENING LOCATIONS. EXPOSED DRYWALL FINISH SHALL BE LEVEL 4 (TYP).
F A F	PROVIDE CONTROL JOINTS AT 30FT O.C. (MAX) EQUALLY SPACED. PROVIDE CONTROL JOINTS AT ALL DOOR AND WINDOW LOCATIONS.

**REVISION DESCRIPTION** 

BY DATE

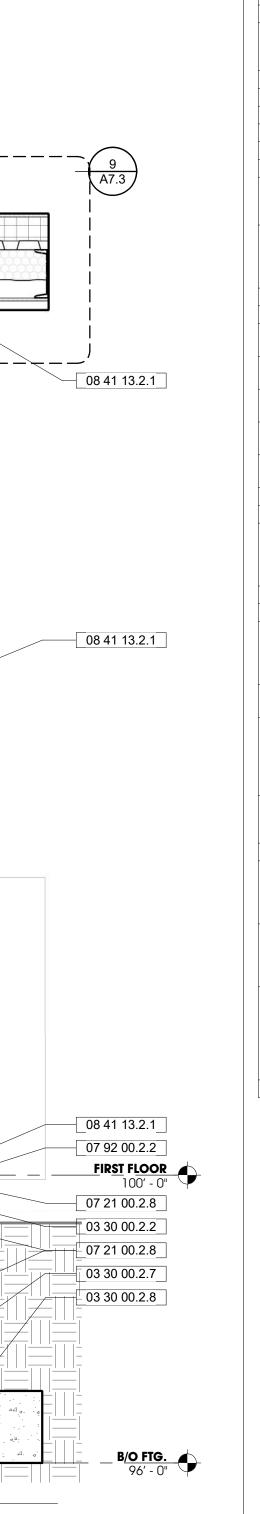
RCHE 4 **WNO** AB 315 W South **T** 574.2 **F** 574.2 •• FOR Z C E ш TR O 🖻 S っ  $\mathbf{\omega}$ 2 **A B** 2 S DISTRI S DISTRI RDSBUI 7 W. M. WARDS STR ٩٤٢ A M D 20 C NE Z MODELED BY: AND **DESIGNED BY:** ARD PM REVIEW: ARD, MDN QA/QC REVIEW: MDN DATE: 12/20/2023 SEAL: ARVIN RIC DELACRUZ ARCHITECT 30106020 IGNATURE DATE: 12/20/2023 HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZES SCALE: UNLESS NOTED OTHERWISE ACI JOB # 22-1836 SHEET NO. A5.2





- A. ALL CONTRACTORS ARE RESPONSIBLE FOR PROVIDING COMPLETE INSTALLATION OF ALL COMPONENTS AND SHALL COORDINATE THEIR SCOPE OF WORK WITH ALL OTHER TRADES PRIOR TO SUBMITTING BIDS TO ENSURE THERE ARE NO MISSING OR DUPLICATE COMPONENTS WITH-IN THEIR SCOPE
- B. DO NOT SCALE DRAWINGS. USE INDICATED DIMENSIONS ONLY.
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- D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB DURING CONSTRUCTION LAYOUT AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.
- E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS ON-SITE & ADVISING ARCHITECT OF ANY DISCREPANCIES WITH DEMOLITION OR NEW WORK PLANS PRIOR TO PERFORMING ANY WORK.
- F. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY UNFORESEEN STRUCTURAL OR UTILITY RELATED ISSUES ARISE DURING DEMOLITION OR EXCAVATION.
- G. ALL SPECIFIED ITEMS SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS WRITTEN REQUIREMENTS
- H. WEATHER BARRIER SHALL PROVIDE A CONTINUOUS WEATHER TIGHT ENVELOPE ALL JOINTS Shall be taped

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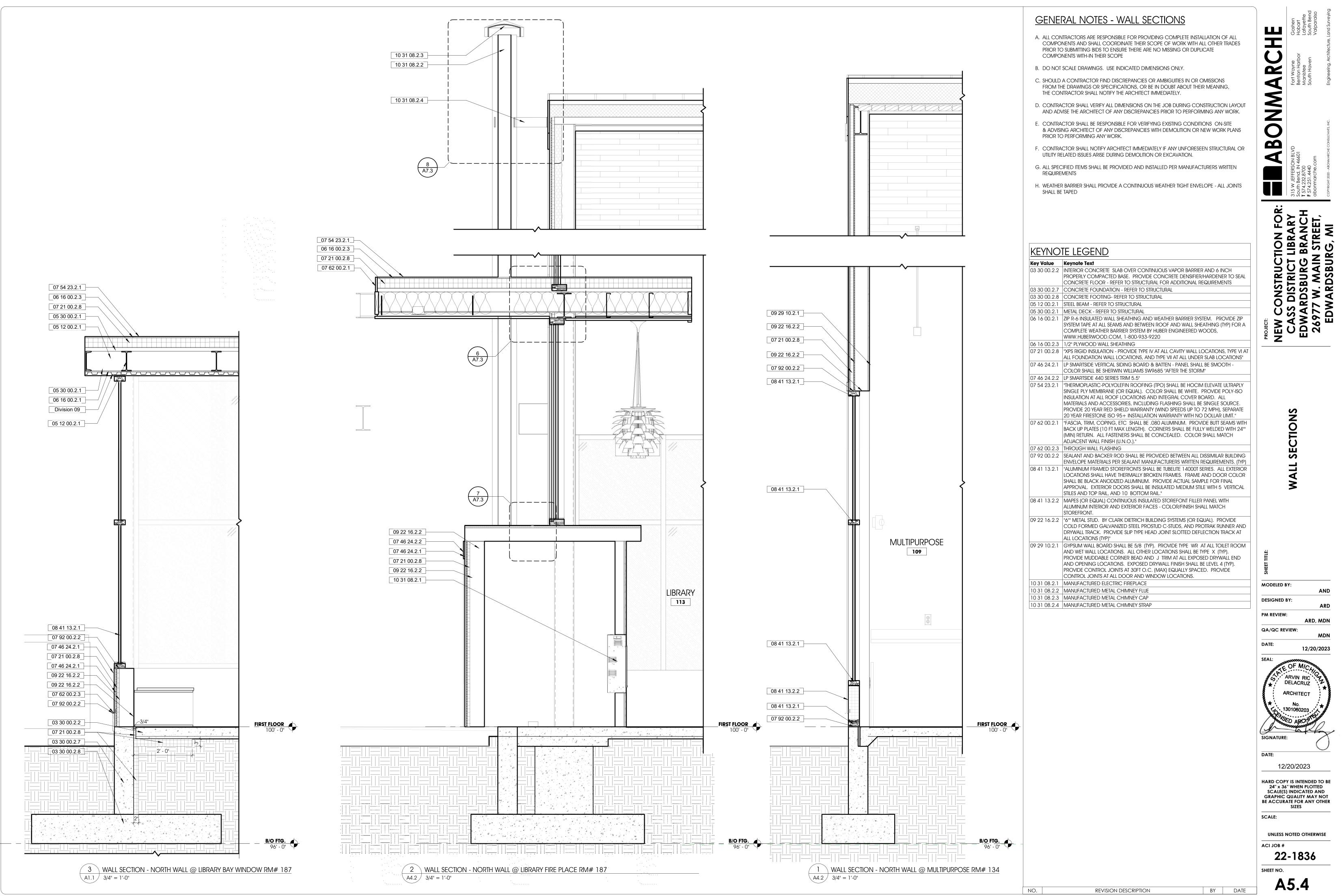


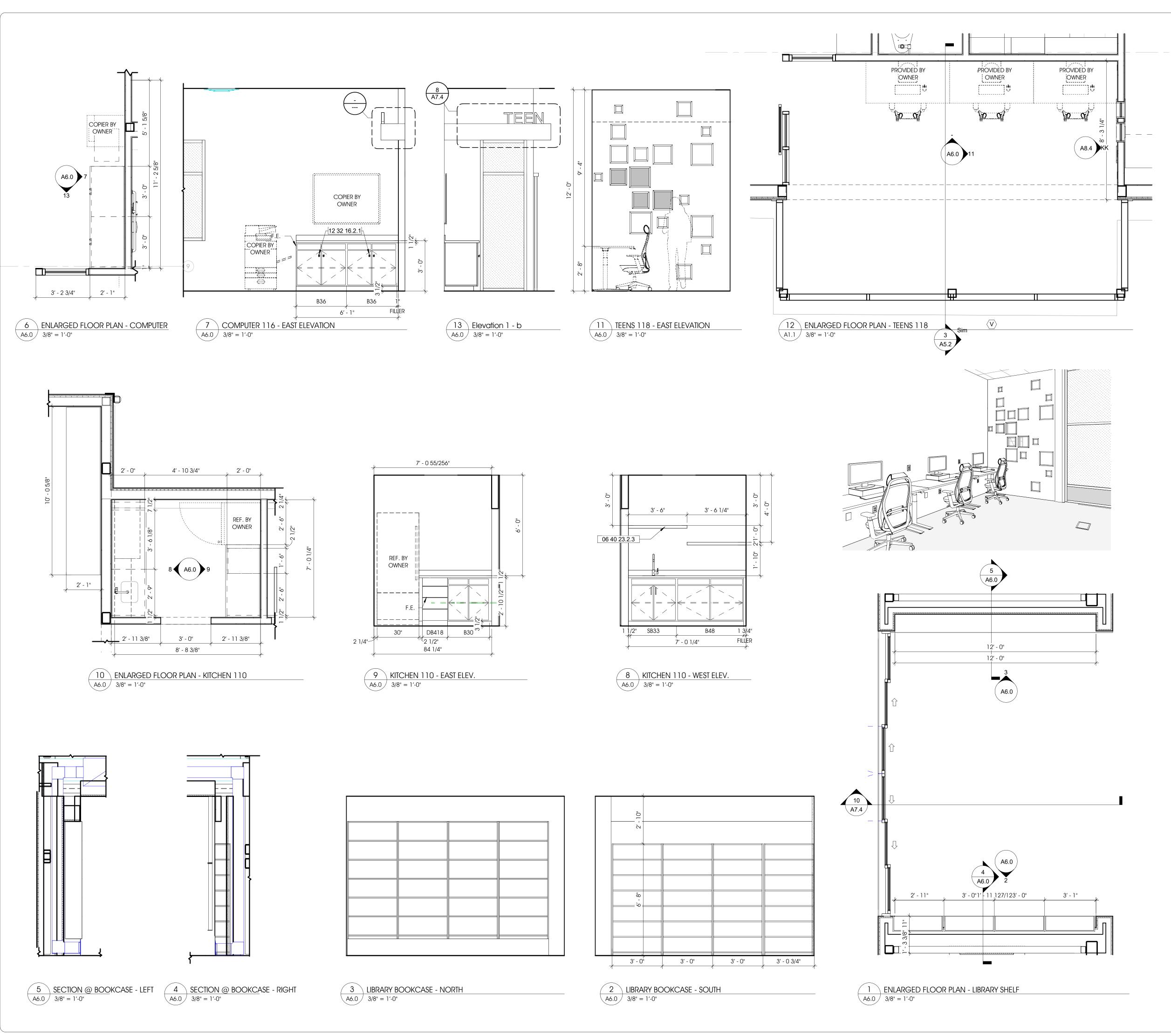
NO.

**REVISION DESCRIPTION** 

03         30         00.2.2         INTERIC           03         30         00.2.2         INTERIC           03         30         00.2.7         CONC           03         30         00.2.8         CONC           05         12         00.2.1         STEEL B           05         12         00.2.1         METAL           05         50         10.2.1         PREFAB           06         10         00.2.2         TREATE           MOISTL         AND AS         OOP           06         16         00.2.1         IPREFAB           06         16         00.2.1         ZIP R-6           SYSTEN         COMP         WWW.H           06         16         00.2.1         ZIP R-6           SYSTEN         COMP         WWW.H         ALL FO           07         21         00.2.3         R-38 B           07         21         00.2.3         R-38 B           07         21         02.2.3         R-38 B           07         46         24.2.1         LP SMA           07         46         24.2.2         LP SMA           07         46	OR CONCRETE SLAB OVER CONTINUOUS VAPOR BARRIER AND 6 INCH ERLY COMPACTED BASE. PROVIDE CONCRETE DENSIFIER/HARDENER TO SEAL CRETE FLOOR - REFER TO STRUCTURAL FOR ADDITIONAL REQUIREMENTS
PROPE CONC           03 30 00.2.7         CONC           03 30 00.2.7         CONC           03 30 00.2.8         CONC           05 12 00.2.1         STEEL B           05 12 00.2.2         STEEL C           05 30 00.2.1         METAL           05 50 10.2.1         PREFAE           06 10 00.2.2         TREATE           MOISTL         AND A           06 16 00.2.1         ZIP R-6           SYSTEM         COMP           WWW.B         ALL FO           07 21 00.2.3         R-38 B           07 21 00.2.4         3/4" PL           07 21 00.2.3         R-38 B           07 21 00.2.4         "XPS RI           ALL FO         MANUF           07 40 24.2.1         PAC C           GRAPH         COLOI           07 46 24.2.2         LP SMA           07 62 00.2.1         "FASCL           BACK L         MANUF           07 62 00.2.1         "FASCL           D7 62 00.2.2         STAINLE           07 62 00.2.2         SEALAM           07 71 00.2.1         "ALUMI           JOR 41 13.2.1         "ALUMI           JOR 21 13.2.2         MAPES <th>ERLY COMPACTED BASE. PROVIDE CONCRETE DENSIFIER/HARDENER TO SEAL CRETE FLOOR - REFER TO STRUCTURAL FOR ADDITIONAL REQUIREMENTS</th>	ERLY COMPACTED BASE. PROVIDE CONCRETE DENSIFIER/HARDENER TO SEAL CRETE FLOOR - REFER TO STRUCTURAL FOR ADDITIONAL REQUIREMENTS
03 30 00.2.8         CONC           05 12 00.2.1         STEEL B           05 12 00.2.2         STEEL C           05 30 00.2.1         METAL           05 50 10.2.1         PREFAB           06 10 00.2.2         TREATE           MOISTL         AND AS           06 16 00.2.1         ZIP R-6           SYSTEN         COMP           WWW.1         SYSTEN           06 16 00.2.3         R-38 B           07 21 00.2.3         R-38 B           07 21 00.2.3         R-38 B           07 21 00.2.3         R-38 P           07 21 00.2.3         R-38 P           07 21 00.2.3         R-38 P           07 41 13.2.1         PAC C           GRAPH         COLOI           07 46 24.2.1         LP SMA           07 46 24.2.2         LP SMA           07 62 00.2.1         "FASCL           BACK (MIN) R         ADJAC           07 62 00.2.2         STAINLE           07 62 00.2.2         STAINLE           07 62 00.2.2         STAINLE           07 62 00.2.2         SEALAN           07 71 00.2.1         "ALUMI           JOCAT         STAINLE           08 41 13.2.1<	
D5         12         00.2.1         STEEL B           D5         12         00.2.2         STEEL C           D5         30         00.2.1         METAL           D5         50         10.2.1         PREFAB           D6         10         00.2.2         TREATE           MOISTL         AND A           D6         10         00.2.1         ZIP R-6           SYSTEW         COMP         WWW.H           D6         16         00.2.4         3/4" PL           D7         21         00.2.3         R-38 B           D7         21         00.2.8         "XPS RI           ALL FO         D7         21         00.2.2           D7         21         00.2.2         POLYIS           MANUE         PAC C         GRAPH           D7         46         24.2.1         LP SMA           D7         46         24.2.3         LP SMA           D7         46         24.2.3         LP SMA           D7         62         00.2.1         "FASCL           BACK L         MANUE         DACK L           D7         62         00.2.3         THROU <td>CRETE FOUNDATION - REFER TO STRUCTURAL</td>	CRETE FOUNDATION - REFER TO STRUCTURAL
D5         12         00.2.2         STEEL C           D5         30         00.2.1         METAL           D5         50         10.2.1         PREFAE           D6         10         00.2.2         TREATE           MOISTL         AND AX           D6         10         00.2.1         ZIP R-6           SYSTEM         COMP         WWW.B           D6         16         00.2.4         3/4" PL           D7         21         00.2.3         R-38 B/           D7         21         00.2.3         R-38 B/           D7         21         00.2.2         POLYIS           MANUF         MANUF         MANUF           D7         22         00.2.2         POLYIS           MANUF         MANUF         MANUF           D7         46         24.2.1         LP SMA           D7         46         24.2.3         LP SMA           D7         62         00.2.1         "FASCL <td>CRETE FOOTING- REFER TO STRUCTURAL</td>	CRETE FOOTING- REFER TO STRUCTURAL
D5 30 00.2.1         METAL           D5 50 10.2.1         PREFAR           D6 10 00.2.2         TREATE           MOISTL         AND A           D6 16 00.2.1         ZIP R-6           SYSTEW         COMP           WWW.H         AND A           D6 16 00.2.1         ZIP R-6           D7 21 00.2.3         R-38 B           D7 21 00.2.3         R-38 B           D7 21 00.2.3         R-38 B           D7 21 00.2.3         R-38 P           D7 40 24.2.1         LP SMA           D7 46 24.2.2         LP SMA           D7 46 24.2.3         LP SMA           D7 62 00.2.1         "FASCL           BACK I         (MIN) R           ADJAC         ADJAC           D7 62 00.2.2         STAINLE           D7 62 00.2.1         "FASCL           BRACK I         (MIN) R           ADJAC         SUPPO           D7 62 00.2.2         STAINLE           D7 71 00.2.1         "ALUMI           LOCAT         STILES           D8 41 13.2.1         A	BEAM - REFER TO STRUCTURAL
D5 50 10.2.1         PREFAU           D6 10 00.2.2         TREATE MOISTU AND AS           D6 16 00.2.1         ZIP R-6 SYSTEM COMP           D6 16 00.2.1         ZIP R-6 SYSTEM COMP           D7 21 00.2.3         R-38 B/ ALL FO           D7 21 00.2.8         "XPS RI ALL FO           D7 21 00.2.8         "XPS RI ALL FO           D7 21 00.2.8         "SYSTEM COLOT           D7 41 13.2.1         PAC C GRAPH           D7 46 24.2.2         LP SMA COLOT           D7 46 24.2.3         LP SMA COLOT           D7 62 00.2.1         "FASCL BACK U (MIN) R ADJAC           D7 62 00.2.2         STAINLE D           D7 71 00.2.1         "ALUMI SUPPO PER SM BRACK           D7 92 00.2.2         SEALAN ENVELO           D8 41 13.2.1         "ALUMI LOCAT SHALL I APPRO STILES A           D8 41 13.2.2         MAPES ALUMIN STOREF           D8 91 19.2.1         FIXED I O D 22 16.2.2           D7 92 02 16.2.3         S" MET, FORME	CLIP ANGLE - REFER TO STRUCTURAL
D6         10         00.2.2         TREATE MOISTU AND AX           D6         16         00.2.1         ZIP R-6 SYSTEM COMP           D6         16         00.2.1         ZIP R-6 SYSTEM COMP           D6         16         00.2.4         3/4" PL           D7         21         00.2.3         R-38 B/ COMP           D7         21         00.2.3         R-38 B/ COMP           D7         21         00.2.2         POLYIS           D7         21         00.2.2         POLYIS           D7         22         00.2.2         POLYIS           D7         46         24.2.1         LP SMA           D7         46         24.2.2         LP SMA           D7         46         24.2.3         LP SMA           D7         46         20.2.2         STAINLED           D7         62         00.2.1         "ALUMI           SUPPO         PER SN         BRACK           D7         92         00.2.1	. DECK - REFER TO STRUCTURAL
MOISTL AND AX De 16 00.2.1 2/P R-6 SYSTEM COMP WWW.1 De 16 00.2.4 3/4" PL De 16 00.2.4 3/4" PL De 21 00.2.3 7 21 00.2.3 7 21 00.2.3 7 21 00.2.8 3/4" PL De 21 00.2.3 7 3/4" (MI De 21 19.2.1 7 3/4" (MI De 22 00.2.2 7 46 24.2.2 10 46 24.2.2 10 46 24.2.3 10 7 46 20.2.2 17 46 20.2.2 17 46 20.2.2 17 40 20.2.2 17 40 20.2.2 17 40 20.2.3 10 7 62 00.2.1 10 7 20 00.2.1 10 7 1 00.2.1 10	BRICATED STEEL TRUSS - REFER TO STRUCTURAL
SYSTEM COMP WWW.H           26 16 00.2.4         3/4" PL           27 21 00.2.3         R-38 B/ ALL FO           27 21 00.2.8         "XPS RI ALL FO           27 21 00.2.8         "XPS RI ALL FO           27 21 00.2.8         "XPS RI ALL FO           27 21 00.2.2         POLYIS MANUF           27 41 13.2.1         PAC C GRAPH           27 46 24.2.2         LP SMA COLOT           27 46 24.2.3         LP SMA COLOT           27 46 24.2.3         LP SMA COLOT           27 46 20.2.1         "FASCL BACK U (MIN) R ADJAC           27 62 00.2.2         STAINLE BACK U (MIN) R ADJAC           27 62 00.2.3         THROU           27 71 00.2.1         "ALUMI SUPPO PER SM BRACK           27 92 00.2.2         SEALAN ENVELO           28 41 13.2.1         "ALUMI LOCAT SHALL I APPRO STILES A           28 91 19.2.1         FIXED I OR U ALUMIN           29 22 16.2.2         "6"" ME COLD DRYWA           29 22 16.2.3         8" MET, FORME	ED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS EXPOSED TO TURE, EXTERIOR BUILDING ENVELOPE, ADJACENT TO CONCRETE OR MASONRY, AS OTHERWISE REQUIRED.""
07 21 00.2.3         R-38 B/           07 21 00.2.3         "XPS RIALL FO           07 21 19.2.1         "3"" (MIBARRIE           07 22 00.2.2         POLYIS           07 41 13.2.1         PAC C           07 46 24.2.1         LP SMA           07 46 24.2.2         LP SMA           07 46 24.2.3         LP SMA           07 62 00.2.2         STAINLE           07 62 00.2.1         "FASCL           07 62 00.2.2         STAINLE           07 62 00.2.3         THROU           07 7 1 00.2.1         "ALUMI           SUPPO         PER SM           07 92 00.2.2         SEALAN           07 92 00.2.2         SEALAN           08 41 13.2.1         "ALUMI           NAPES         ALUMIN           APPRO         STILES A           08 91 19.2.1         FIXED I           09 22 16.2.2         "6"" ME           09 22 16.2.3         8" MET,           FORME         STILES A	5 INSULATED WALL SHEATHING AND WEATHER BARRIER SYSTEM. PROVIDE ZIP M TAPE AT ALL SEAMS AND BETWEEN ROOF AND WALL SHEATHING (TYP) FOR A PLETE WEATHER BARRIER SYSTEM BY HUBER ENGINEERED WOODS, .HUBERWOOD.COM, 1-800-933-9220
07 21 00.2.8         "XPS RI ALL FO           07 21 19.2.1         "3"" (MI BARRIE           07 22 00.2.2         POLYIS MANUE           07 41 13.2.1         PAC C GRAPH           07 46 24.2.1         LP SMA COLOI           07 46 24.2.2         LP SMA COLOI           07 46 24.2.3         LP SMA COLOI           07 62 00.2.1         "FASCL BACK U (MIN) R ADJAC           07 62 00.2.2         STAINLE           07 62 00.2.3         THROU           07 71 00.2.1         "ALUMI SUPPO PER SM BRACK           07 92 00.2.2         SEALAN ENVELO           08 41 13.2.1         "ALUMI STOREF           08 41 13.2.2         MAPES ALUMIN STOREF           08 91 19.2.1         FIXED I ORYWA ALL LO           09 22 16.2.2         "6"" ME COLD DRYWA	LYWOOD ROOF SHEATHING WITH "H" CLIPS OR "T&G"
ALL FO         07 21 19.2.1       "3"" (MI         BARRIE       07 22 00.2.2       POLYIS         07 41 13.2.1       PAC C         GRAPH       COLOI         07 46 24.2.1       LP SMA         07 46 24.2.2       LP SMA         07 46 24.2.3       LP SMA         07 46 24.2.3       LP SMA         07 62 00.2.1       "FASCI,         BACK U       (MIN) R         ADJAC       07 62 00.2.2         07 62 00.2.3       THROU         07 7 1 00.2.1       "ALUMI         SUPPO       PER SN         BRACK       ENVELO         07 92 00.2.2       SEALAN         COA       STILES A         08 41 13.2.1       "ALUMI         LOCAT       STILES A         08 41 13.2.2       MAPES         ALUMIN       STOREF         08 91 19.2.1       FIXED I         09 22 16.2.2       "6"" ME         COLD       DRUMA         ALL LO       09 22 16.2.3	BATT INSULATION
BARRIE           07 22 00.2.2         POLYIS MANUF           07 41 13.2.1         PAC C GRAPH           07 46 24.2.1         LP SMA COLOI           07 46 24.2.2         LP SMA COLOI           07 46 24.2.3         LP SMA COLOI           07 46 24.2.3         LP SMA COLOI           07 62 00.2.1         "FASCL BACK L (MIN) R ADJAC           07 62 00.2.2         STAINLE           07 62 00.2.3         THROU           07 71 00.2.1         "ALUMI SUPPO PER SN BRACK           07 92 00.2.2         SEALAN ENVELC           08 41 13.2.1         "ALUMI STOREF           08 41 13.2.2         MAPES ALUMIN STOREF           08 91 19.2.1         FIXED I COLD DRYWA ALL LO           09 22 16.2.2         "6"" ME COLD           07 92 16.2.3         8" MET, FORME	RIGID INSULATION - PROVIDE TYPE IV AT ALL CAVITY WALL LOCATIONS, TYPE VI AT DUNDATION WALL LOCATIONS, AND TYPE VII AT ALL UNDER SLAB LOCATIONS"
MANUF           07 41 13.2.1         PAC C GRAPH           07 46 24.2.1         LP SMA COLOI           07 46 24.2.2         LP SMA           07 46 24.2.3         LP SMA           07 62 00.2.1         "FASCL BACK U (MIN) R ADJAC           07 62 00.2.2         STAINLE           07 62 00.2.3         THROU           07 7 00.2.1         "ALUMI SUPPO PER SM BRACK           07 92 00.2.2         SEALAN ENVELO           08 41 13.2.1         "ALUMI LOCAT SHALL I APPRO STILES A           08 41 13.2.2         MAPES ALUMIN STOREF           08 91 19.2.1         FIXED I ORYWA ALL LO           09 22 16.2.2         "6"" ME COLD DRYWA           09 22 16.2.3         8" MET, FORME	(IN) CLOSED CELL SPRAY POLYURETHANE FOAM INSULATION AND VAPOR ER SYSTEM"
GRAPH           07 46 24.2.1         LP SMA COLOI           07 46 24.2.2         LP SMA           07 46 24.2.2         LP SMA           07 46 24.2.3         LP SMA           07 62 00.2.1         "FASCL BACK U (MIN) R ADJAC           07 62 00.2.2         STAINUS           07 62 00.2.3         THROU           07 7 1 00.2.1         "ALUMI SUPPO PER SM BRACK           07 92 00.2.2         SEALAN ENVELC           08 41 13.2.1         "ALUMI LOCAT SHALL I APPRO STILES A           08 41 13.2.2         MAPES ALUMIN STOREF           08 91 19.2.1         FIXED I OP 22 16.2.2           09 22 16.2.3         8" MET, FORME	SOCYANURATE INSULATION WITH COVER BOARD AS REQUIRED BY ROOFING JFACTURER'S WRITTEN REQUIREMENTS
COLOI 07 46 24.2.2 LP SMA 07 46 24.2.3 LP SMA 07 62 00.2.1 "FASCI BACK U (MIN) R ADJAC 07 62 00.2.2 STAINLE 07 62 00.2.3 THROU 07 71 00.2.1 "ALUMI SUPPO PER SM BRACK 07 92 00.2.2 SEALAN ENVELC 08 41 13.2.1 "ALUMI LOCAT SHALL I APPRO STILES A 08 41 13.2.2 MAPES ALUMIN STOREF 08 91 19.2.1 FIXED I 09 22 16.2.2 "6"" ME COLD DRYWA ALL LO 09 22 16.2.3 8" MET, FORME	CLAD TITE-LOC PLUS STANDIND SEAM METAL ROOF. COLOR SHALL BE HITE ARTSIDE VERTICAL SIDING BOARD & BATTEN - PANEL SHALL BE SMOOTH -
07         46         24.2.3         LP SMA           07         62         00.2.1         "FASCI, BACK U (MIN) R ADJAC           07         62         00.2.2         STAINUE           07         62         00.2.3         THROU           07         62         00.2.1         "ALUMI SUPPO PER SM BRACK           07         71         00.2.1         "ALUMI SUPPO PER SM BRACK           07         92         00.2.2         SEALAN ENVELO           08         41         13.2.1         "ALUMI LOCAT SHALL I APPRO STILES A           08         41         13.2.2         MAPES ALUMIN STOREF           08         91         19.2.1         FIXED I ORYWA ALL LO           09         22         16.2.2         "6"" ME COLD DRYWA           09         22         16.2.3         8" MET, FORME	ARTSIDE VERTICAL SIDING BOARD & BATTER FRANLESTALE BE SNOOTT - DR SHALL BE SHERWIN WILLIAMS SW9685 "AFTER THE STORM" ARTSIDE 440 SERIES TRIM 5.5"
07         62         00.2.1         "FASCI, BACK I (MIN) R ADJAC           07         62         00.2.2         STAINLE (MIN) R ADJAC           07         62         00.2.3         THROU           07         62         00.2.3         THROU           07         71         00.2.1         "ALUMI SUPPO PER SM BRACK           07         92         00.2.2         SEALAN ENVELC           08         41         13.2.1         "ALUMI LOCAT SHALL I APPRO STILES / D8         "ALUMI STOREF           08         41         13.2.2         MAPES ALUMIN STOREF           08         91         19.2.1         FIXED I ORYWA ALL LO           09         22         16.2.2         "6"" ME COLD DRYWA           09         22         16.2.3         8" MET, FORME	ARTSIDE 440 SERIES TRIM 3.5"
BACK L (MIN) R ADJAC 07 62 00.2.2 STAINLE 07 62 00.2.3 THROU 07 71 00.2.1 "ALUMI SUPPO PER SM BRACK 07 92 00.2.2 SEALAN ENVELO 08 41 13.2.1 "ALUMI LOCAT SHALL I APPRO STILES A 08 41 13.2.2 MAPES ALUMI STOREF 08 91 19.2.1 FIXED I 09 22 16.2.2 "6"" ME COLD DRYWA ALL LO 09 22 16.2.3 8" MET, FORME	
07 62 00.2.3 THROU 07 71 00.2.1 "ALUMI SUPPO PER SM BRACK 07 92 00.2.2 SEALAN ENVELO 08 41 13.2.1 "ALUMI LOCAT SHALL I APPRO STILES A 08 41 13.2.2 MAPES ALUMIN STOREF 08 91 19.2.1 FIXED I 09 22 16.2.2 "6"" ME COLD DRYWA ALL LO 09 22 16.2.3 8" MET, FORME	IA, TRIM, COPING, ETC SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24"" RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH CENT WALL FINISH (U.N.O.)."
07 71 00.2.1 "ALUMI SUPPO PER SM BRACK 07 92 00.2.2 SEALAN ENVELC 08 41 13.2.1 "ALUMI LOCAT SHALL N APPRO STILES A 08 41 13.2.2 MAPES ALUMIN STOREF 08 91 19.2.1 FIXED I 09 22 16.2.2 "6"" ME COLD DRYWA ALL LO 09 22 16.2.3 8" MET, FORME	LESS STEEL FLASHING
SUPPO PER SM BRACK 07 92 00.2.2 SEALAN ENVELO 08 41 13.2.1 "ALUMI LOCAT SHALL I APPRO STILES A 08 41 13.2.2 MAPES ALUMIN STOREF 08 91 19.2.1 FIXED I 09 22 16.2.2 "6"" ME COLD DRYWA ALL LO 09 22 16.2.3 8" MET, FORME	JGH WALL FLASHING
ENVELO 08 41 13.2.1 "ALUMI LOCAT SHALL I APPRO STILES / 08 41 13.2.2 MAPES ALUMIN STOREF 08 91 19.2.1 FIXED I 09 22 16.2.2 "6"" ME COLD DRYWA ALL LO 09 22 16.2.3 8" MET, FORME	IINUM GUTTER SHALL BE HEAVY DUTY. PROVIDE ADDITIONAL 1/8""x1 1/2"" DRT BRACKETS AT 36"" O.C. GUTTER PROFILE SHALL BE 6""W x 4.5""D STYLE F MACNA ARCHITECTURAL SHEET METAL MANUAL. GUTTER AND SUPPORT KET - COLOR SHALL BE DARK BLACK."
LOCAT SHALL I APPRO STILES A 08 41 13.2.2 MAPES ALUMIN STOREF 08 91 19.2.1 FIXED I 09 22 16.2.2 "6"" ME COLD DRYWA ALL LO 09 22 16.2.3 8" MET, FORME	NT AND BACKER ROD SHALL BE PROVIDED BETWEEN ALL DISSIMILAR BUILDING OPE MATERIALS PER SEALANT MANUFACTURERS WRITTEN REQUIREMENTS. (TYP)
ALUMIN STOREF 08 91 19.2.1 FIXED I 09 22 16.2.2 "6"" ME COLD DRYWA ALL LO 09 22 16.2.3 8" MET, FORME	IINUM FRAMED STOREFRONTS SHALL BE TUBELITE 14000T SERIES. ALL EXTERIOR TIONS SHALL HAVE THERMALLY BROKEN FRAMES. FRAME AND DOOR COLOR BE BLACK ANODIZED ALUMINUM. PROVIDE ACTUAL SAMPLE FOR FINAL DVAL. EXTERIOR DOORS SHALL BE INSULATED MEDIUM STILE WITH 5 VERTICAL AND TOP RAIL, AND 10 BOTTOM RAIL."
09 22 16.2.2 "6"" ME COLD DRYWA ALL LO 09 22 16.2.3 8" MET FORME	S (OR EQUAL) CONTINUOUS INSULATED STOREFONT FILLER PANEL WITH INUM INTERIOR AND EXTERIOR FACES - COLOR/FINISH SHALL MATCH FRONT.
COLD DRYWA ALL LO 09 22 16.2.3 8" MET, FORME	LOUVERS
09 22 16.2.3 8" MET/ FORME	ETAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND ALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT DCATIONS (TYP)"
	TAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE COLD IED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND ALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT DCATIONS (TYP)"
09 29 10.2.1 GYPSU AND W PROVIE AND O PROVIE	JM WALL BOARD SHALL BE 5/8 (TYP). PROVIDE TYPE WR AT ALL TOILET ROOM WET WALL LOCATIONS. ALL OTHER LOCATIONS SHALL BE TYPE X (TYP). IDE MUDDABLE CORNER BEAD AND J TRIM AT ALL EXPOSED DRYWALL END DPENING LOCATIONS. EXPOSED DRYWALL FINISH SHALL BE LEVEL 4 (TYP). IDE CONTROL JOINTS AT 30FT O.C. (MAX) EQUALLY SPACED. PROVIDE TROL JOINTS AT ALL DOOR AND WINDOW LOCATIONS.
26 56 01.2.1 EXTERIO	IOR LED UP LIGHT







- A. PROVIDE BLOCKING AT ALL TOILET ACCESSORY LOCATIONS (TYP.)
- B. PROVIDE CLOSURE PLATE ON TOP OF ALL CASEWORK AT FILLER STRIP LOCATIONS
- C. PROVIDE RAKKS INSIDE WALL MOUNT COUNTER SUPPORT BRACKETS EQUALLY SPACED AT ALL SPANS 36" OR MORE. BRACKETS SHALL BE CENTERED IN SPAN AND 36" O.C. (MAX). PROVIDE BLOCKING IN WALLS AS REQUIRED. BRACKET SIZE SHALL BE AS REQUIRED FOR COUNTERTOP DEPTH.
- D. TOP OF ALL WALL MOUNT SINKS SHALL BE 34" A.F.F.
- E. PROVIDE _____ WALL BASE AT ALL TOILET ROOMS (TYP.)
- F. FLOOR AND WALL TILE GROUT LINES SHALL ALIGN (TYP.) CONFIRM w/ ARCHITECT PRIOR TO INSTALLATION.
- G. PROVIDE LOCKS AT ALL CASEWORK DOORS & DRAWERS
- H. GENERAL CONTRACTOR SHALL COORDINATE ALL MEP COMPONENTS AND REQUIREMENTS WITH MEP DRAWINGS AND SPECS.
- I. PROVIDE FINISHED ENDS AT ALL EXPOSED FACES OF CASEWORK (TYP)
- J. PROVIDE WALL LEDGER AT ALL UNSUPPORTED COUNTERTOP ENDWALL LOCATIONS (TYP)
- K. ALL BASE CABINETS SHALL HAVE (1) FIXED SHELF (U.N.O.)
- L. ALL UPPER WALL CABINETS SHALL HAVE (2) FULLY ADJUSTABLE SHELVES (TYP).
- M. ALL FULL HEIGHT CABINETS SHALL HAVE (1) FIXED SHELF AT MID HEIGHT LATCH LOCATION, AND (4) FULLY ADJUSTABLE SHELVES (U.N.O.)
- N. ALL SHELVES INSIDE OF CABINETS SHALL HAVE FLUSH METAL U-CHANNEL EDGES @ MAKER SPACE 108, CIRCULATION DESK 117, AND WORK ROOM 125

# KEYNOTE LEGEND

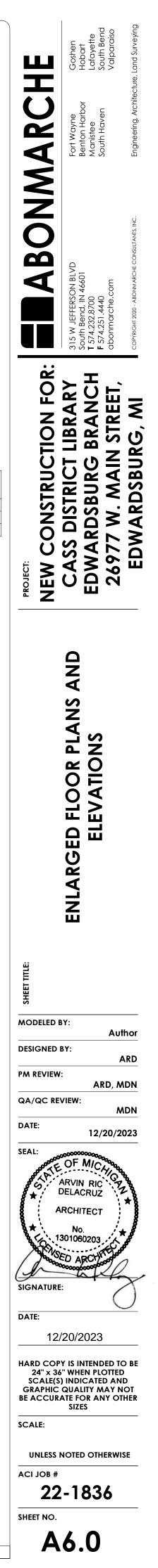
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**REVISION DESCRIPTION** 

BY DATE

Key Value Keynote Text

06 40 23.2.3CUSTOM PLASTIC LAMINATE FLOATING SHELVES - PLAM-212 32 16.2.1MANUFACTURED PLASTIC-LAMINATE-CLAD CASEWORK

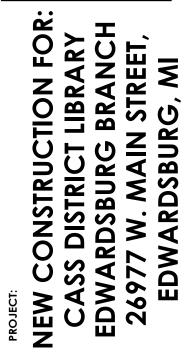




- A. PROVIDE BLOCKING AT ALL TOILET ACCESSORY LOCATIONS (TYP.)
- B. PROVIDE CLOSURE PLATE ON TOP OF ALL CASEWORK AT FILLER STRIP LOCATIONS
- C. PROVIDE RAKKS INSIDE WALL MOUNT COUNTER SUPPORT BRACKETS EQUALLY SPACED AT ALL SPANS 36" OR MORE. BRACKETS SHALL BE CENTERED IN SPAN AND 36" O.C. (MAX). PROVIDE BLOCKING IN WALLS AS REQUIRED. BRACKET SIZE SHALL BE AS REQUIRED FOR COUNTERTOP DEPTH.
- D. TOP OF ALL WALL MOUNT SINKS SHALL BE 34" A.F.F.
- E. PROVIDE _____ WALL BASE AT ALL TOILET ROOMS (TYP.)
- F. FLOOR AND WALL TILE GROUT LINES SHALL ALIGN (TYP.) CONFIRM W/ ARCHITECT PRIOR to installation.
- G. PROVIDE LOCKS AT ALL CASEWORK DOORS & DRAWERS
- H. GENERAL CONTRACTOR SHALL COORDINATE ALL MEP COMPONENTS AND REQUIREMENTS WITH MEP DRAWINGS AND SPECS.
- I. PROVIDE FINISHED ENDS AT ALL EXPOSED FACES OF CASEWORK (TYP) J. PROVIDE WALL LEDGER AT ALL UNSUPPORTED COUNTERTOP ENDWALL LOCATIONS (TYP)
- K. ALL BASE CABINETS SHALL HAVE (1) FIXED SHELF (U.N.O.)
- L. ALL UPPER WALL CABINETS SHALL HAVE (2) FULLY ADJUSTABLE SHELVES (TYP).
- M. ALL FULL HEIGHT CABINETS SHALL HAVE (1) FIXED SHELF AT MID HEIGHT LATCH LOCATION, AND (4) FULLY ADJUSTABLE SHELVES (U.N.O.)
- N. ALL SHELVES INSIDE OF CABINETS SHALL HAVE FLUSH METAL U-CHANNEL EDGES @ MAKER SPACE 108, CIRCULATION DESK 117, AND WORK ROOM 125

TAG	ITEM	MANUFACTURER	MODEL NO.	ADA	NOTES
1	18" GRAB BAR (VERT)	BOBRICK	B-5806X18	40" AFF TO BTM	Mount Vertically
2	36" GRAB BAR (HORZ)	BOBRICK	B-5806X36	34" AFF TO BTM	
3	42" GRAB BAR (HORZ)	BOBRICK	B-5806X42	34" AFF TO BTM	
4	TOILET PAPER HOLDER	BOBRICK	B-2840	22" AFF TO TOP	
5	Wall Mounted Foldable Bench	BOBRICK	B-5181	17" AFF TO BTM	
6	ROBE HOOK	BOBRICK	B-682	54" AFF TO BTM	
7	MIRROR 24" x 48"	BOBRICK	B-290 2448	40" AFF MAX TO BOTTOM	
8	TOUCHLESS FAUCET				
9	FULL LENGTH MIRROR			6" AFF TO BOTTOM	Align with top of wall base
10	CUSTOM MIRROR				
11	RECESSED WASTER RECEPTACLE & PAPER TOWEL DISPENSER	BOBRICK	B-3394	11 3/4" AFF TO BTM	
12	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL				
13	BABY CHANGING STATION	BOBRICK	B-3394	11 3/4" AFF TO BTM	
14	ROBE HOOK	BOBRICK	B-682	54" AFF TO BTM	
15	RECESSED WASTER RECEPTACLE & PAPER TOWEL DISPENSER	BOBRICK	B-43949	11 3/4" AFF TO BTM	





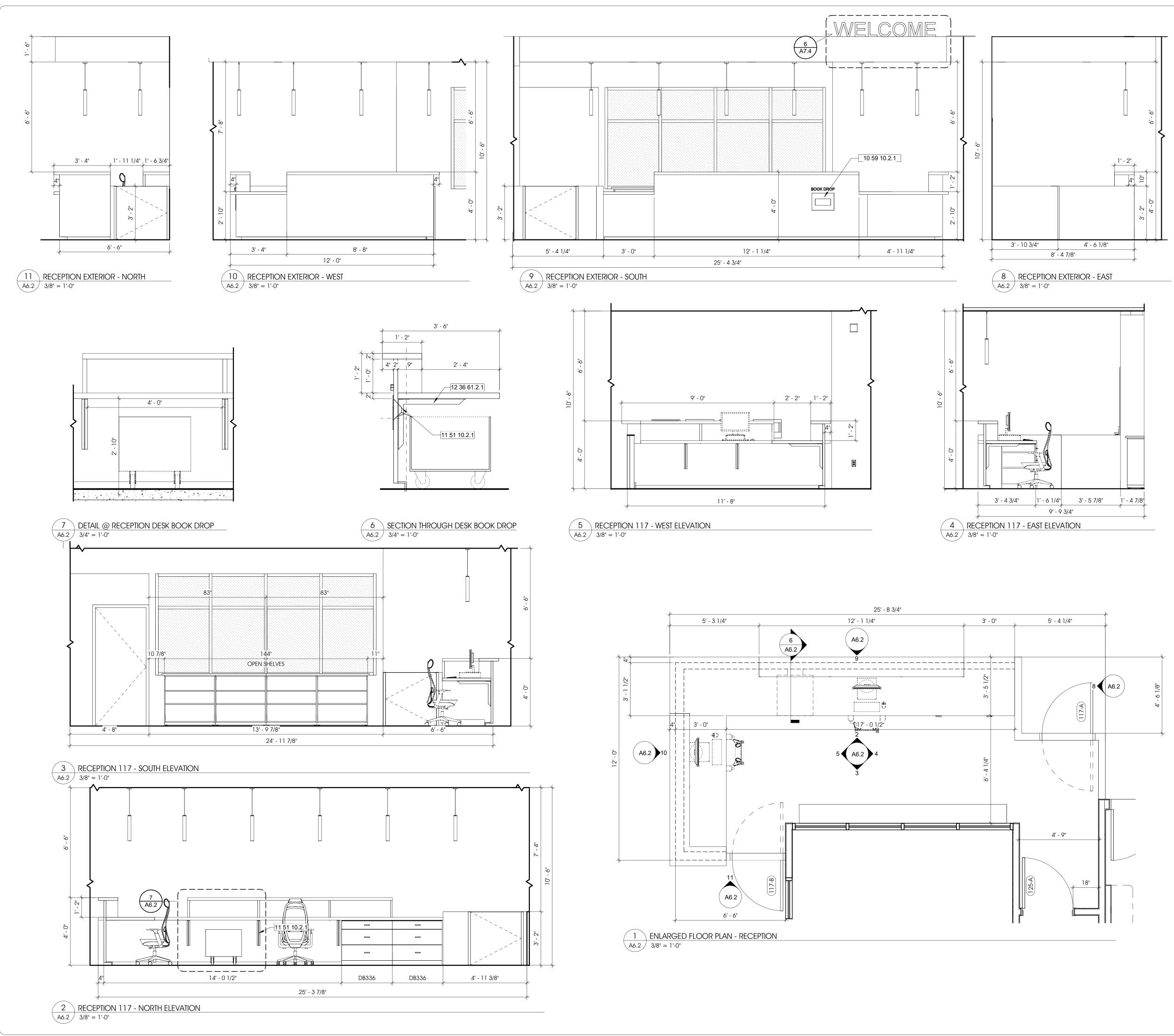


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PM REVIEW:	ARD, MDN
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#### **REVISION DESCRIPTION**

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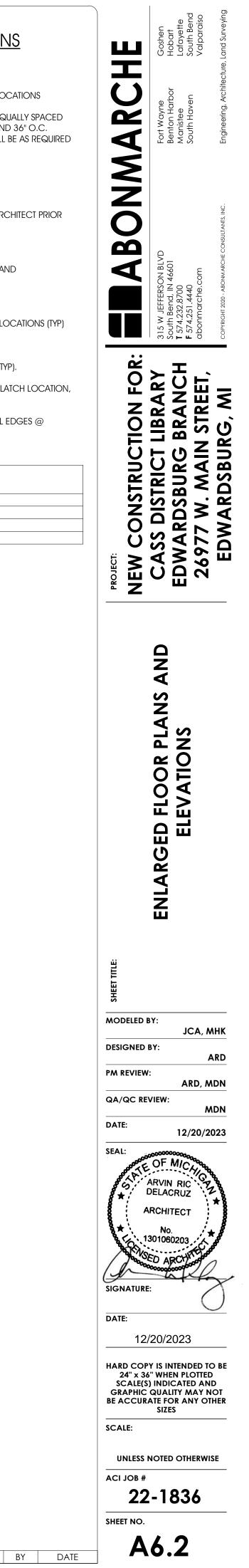
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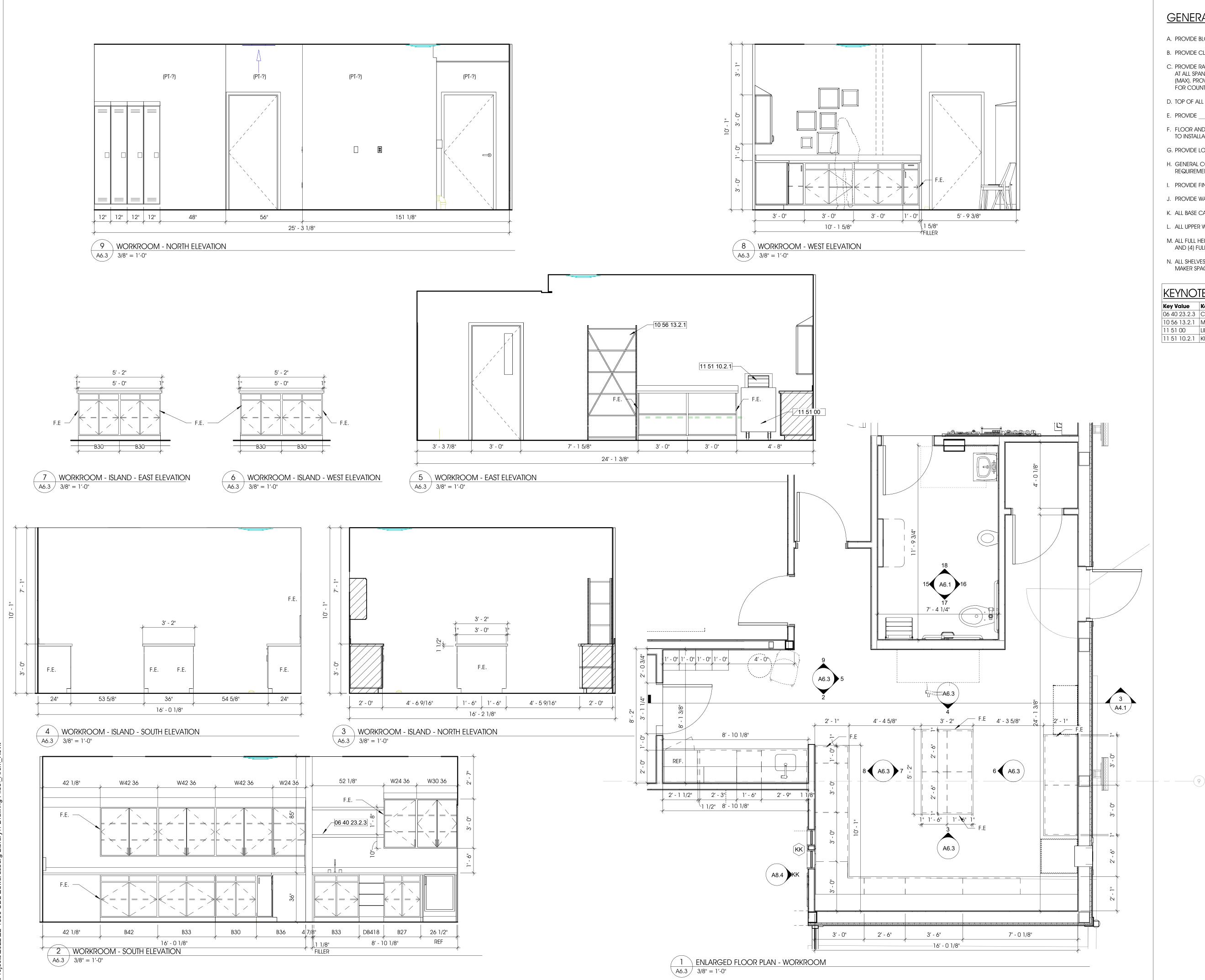


- A. PROVIDE BLOCKING AT ALL TOILET ACCESSORY LOCATIONS (TYP.)
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### **KEYNOTE LEGEND**

Key Value	Keynote Text
10 59 10.2.1	KINGSLEY THRUWALL DROP BOX ASSEMBLY
11 51 10.2.1	KINGSLEY THRUWALL BOOK DROP
12 36 61.2.1	





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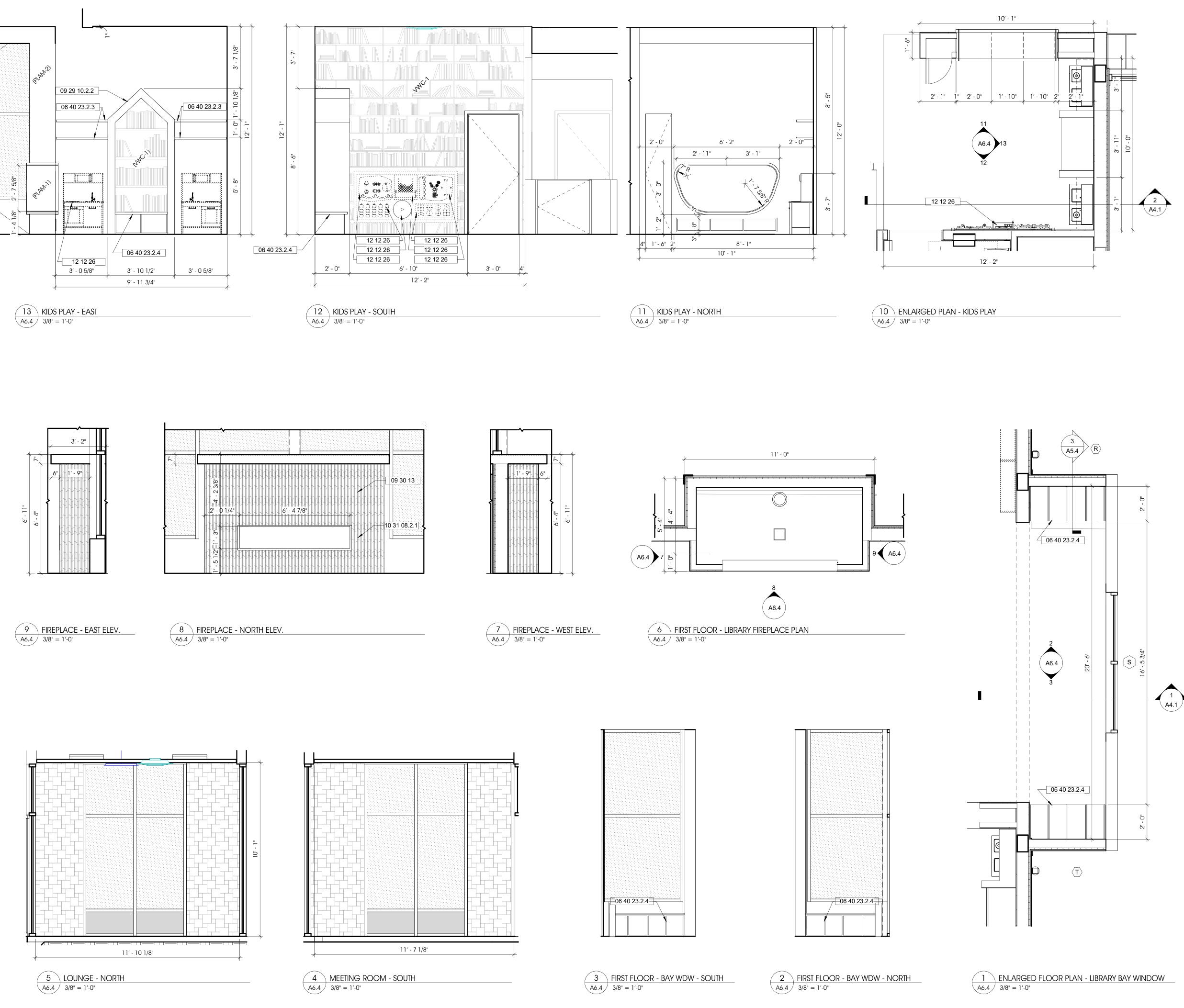
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**REVISION DESCRIPTION** 

Key Value	Keynote Text
06 40 23.2.3	CUSTOM PLASTIC LAMINATE FLOATING SHELVES - PLAM-2
10 56 13.2.1	METAL SHELVING
11 51 00	LIBRARY EQUIPMENT
11 51 10.2.1	KINGSLEY THRUWALL BOOK DROP

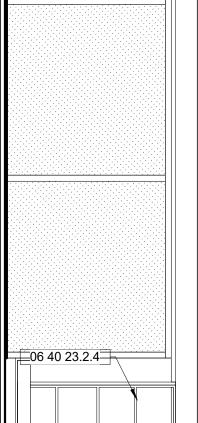
<b>E ABONMARCHE</b>	315 W JEFFERSON BLVD       Fort Wayne       Goshen         South Bend, IN 46601       Benton Harbor       Hobart         T 574.232.8700       Manistee       Lafayette         F 574.251.4440       South Haven       South Bend         abonmarche.com       Corvention, INC.       Engineering, Architecture, Land Surveying
PROJECT: NEW CONSTRUCTION FOR:	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH 26977 W. MAIN STREET, EDWARDSBURG, MI
	ENLARGED FLOOR PLANS AND ELEVATIONS
	JCA BY: ARD ARD, MDN VIEW: MDN 12/20/2023 OF M/CH ARVIN RIC DELACRUZ RCHITECT No. 301060203
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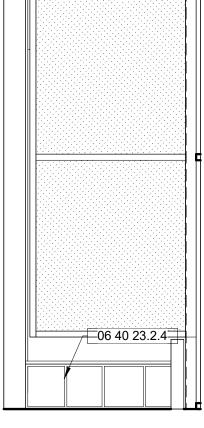


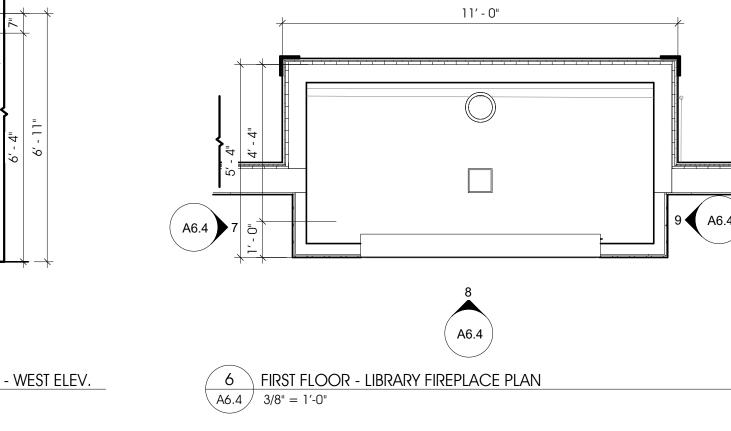


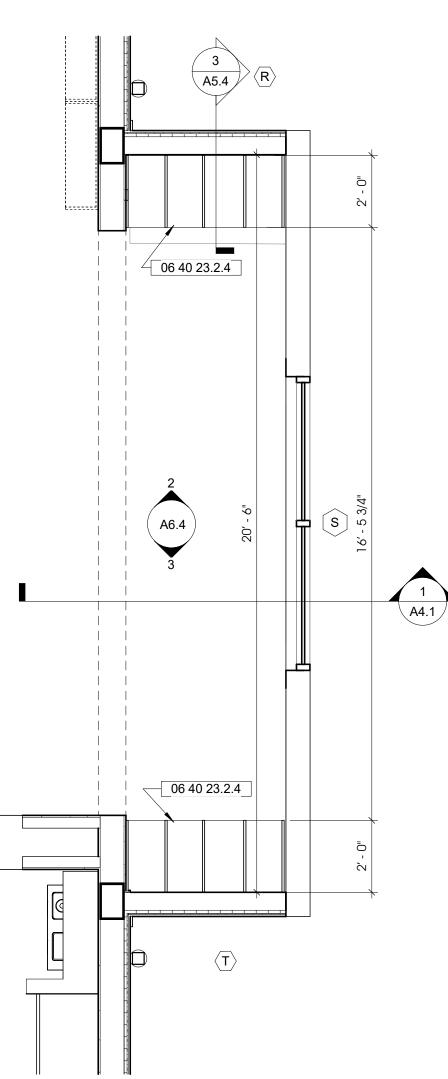




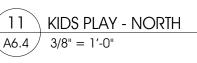
















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ARVIN RIC DELACRUZ

ARCHITECT

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GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZES

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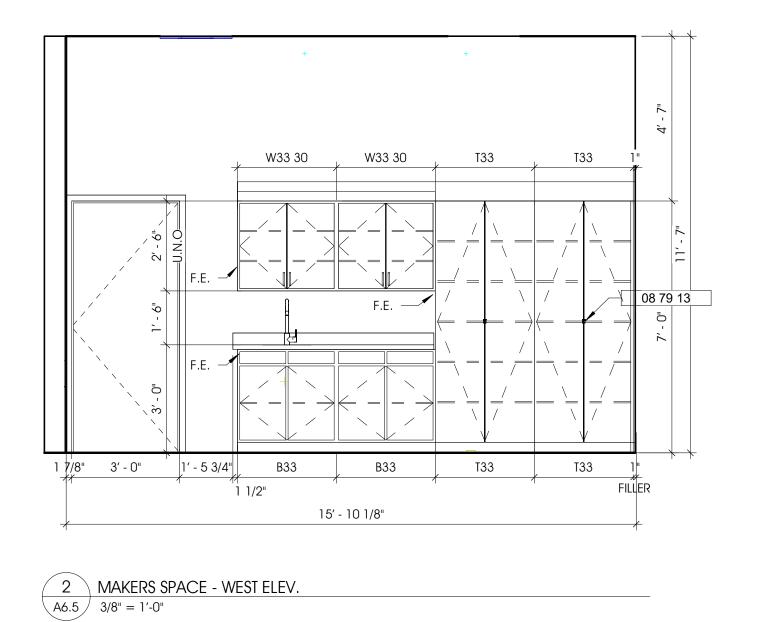
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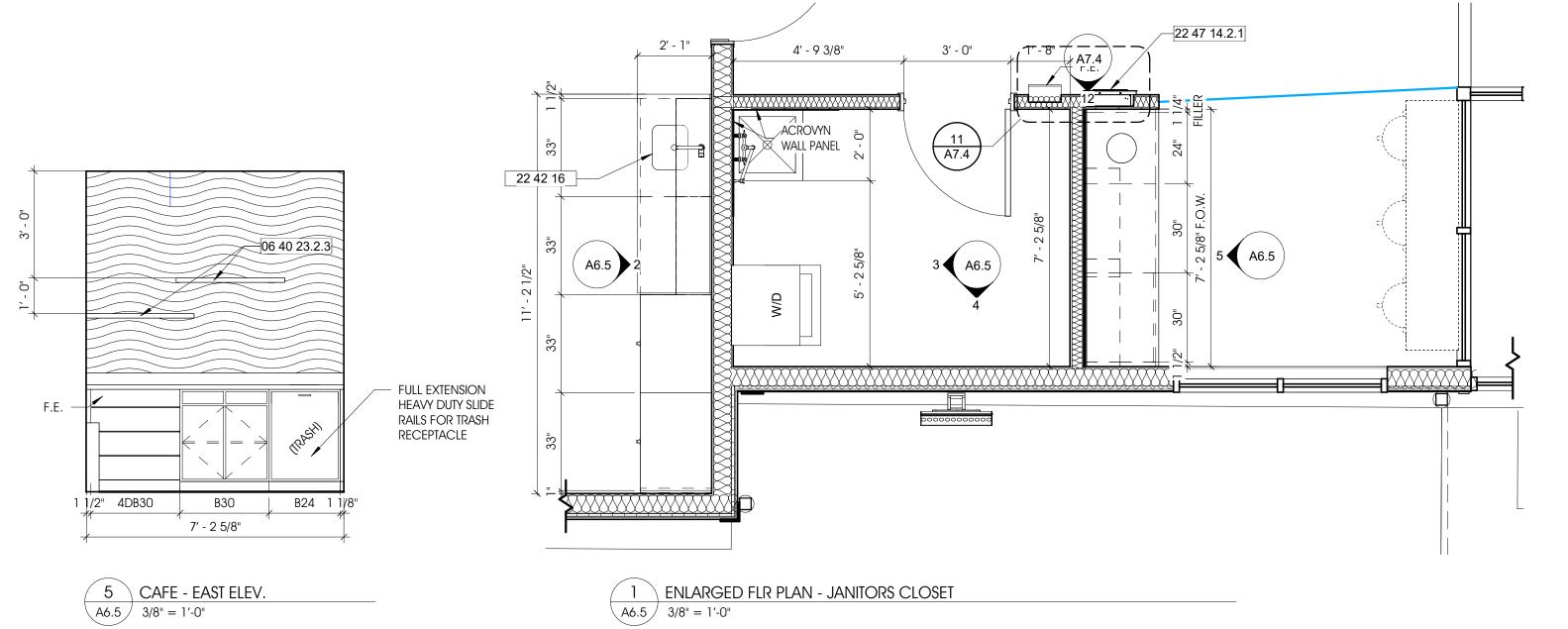
### KEYNOTE LEGEND

Key Value	Keynote Text
06 40 23.2.3	CUSTOM PLASTIC LAMINATE FLOATING SHELVES - PLAM-2
06 40 23.2.4	CUSTOM PLASTIC LAMINATE BUILT-IN BENCH WITH CUSTOM FABRIC CUSHION - PLAM-2
09 29 10.2.2	CUSTOM WALL FRAMING SHALL BE 3 5/8" METAL STUD WITH 5/8" TYPE "X" GYP
09 30 13	Ceramic Tiling
10 31 08.2.1	MANUFACTURED ELECTRIC FIREPLACE
12 12 26	Wall Activity Panels (BY OWNER)

NO.



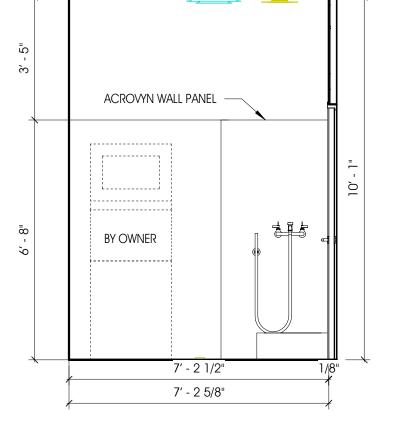


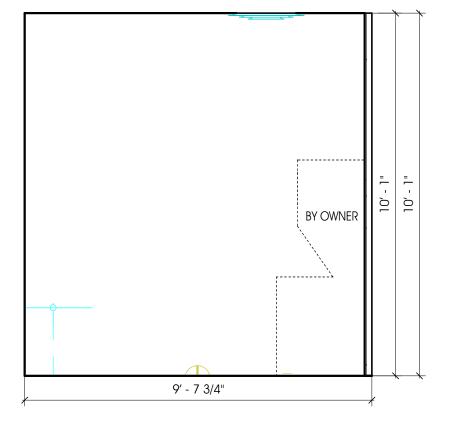


1 ENLARGED FLR PLAN - JANITORS CLOSET A6.5 3/8" = 1'-0"



4 JANITOR'S CLOSET - SOUTH A6.5 3/8" = 1'-0"





#### <u>GENERAL NOTES - INTERIOR ELEVATIONS</u>

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# KEYNOTE LEGEND

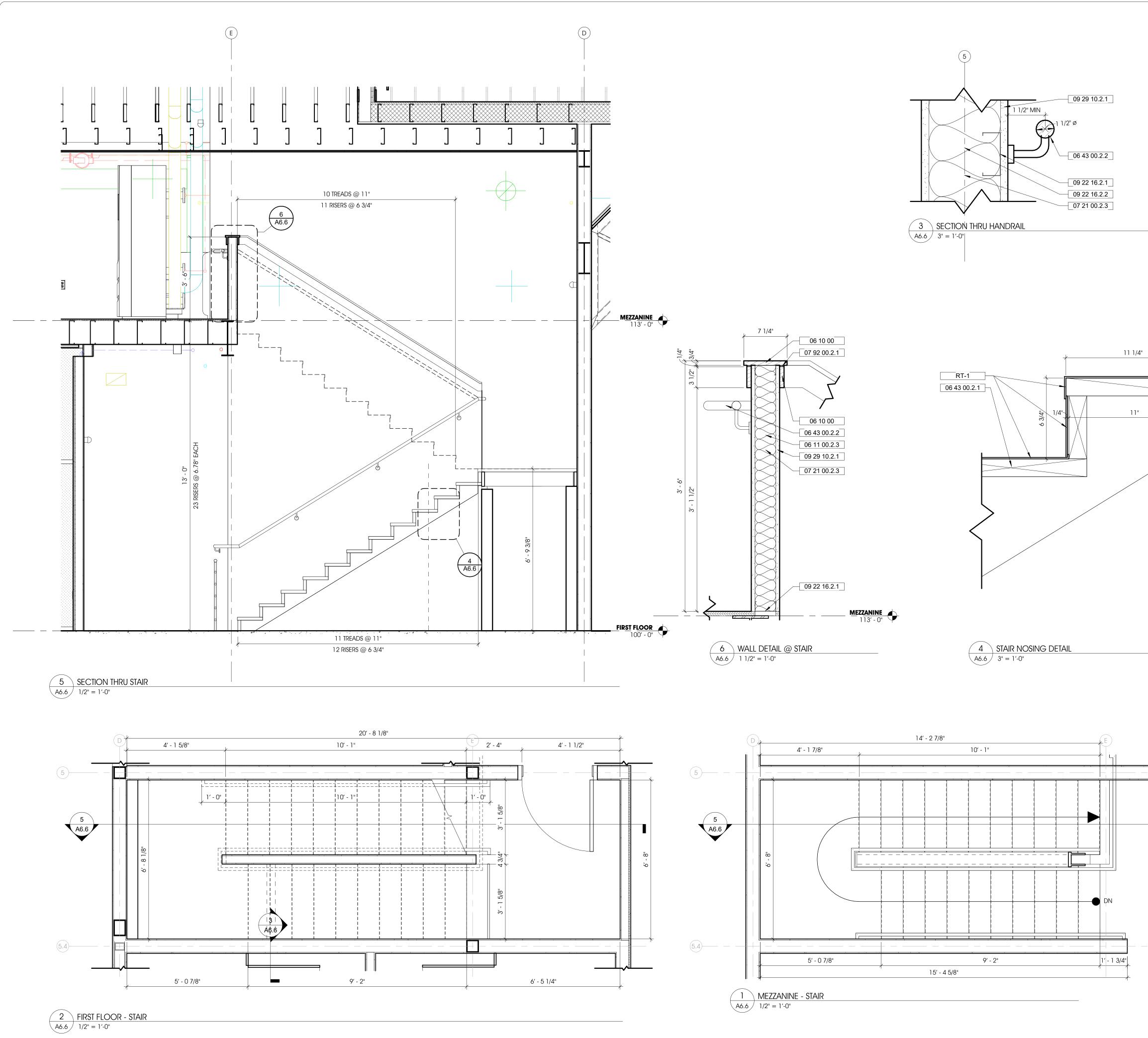
Key Value Keynote Text 06 40 23.2.3 CUSTOM PLASTIC LAMINATE FLOATING SHELVES - PLAM-2

- 08 79 13 Key Storage Equipment 22 42 16 COMMERCIAL SINKS & LAVATORIES
- 22 47 14.2.1 ELKAY ezH2O LIV PRO IN-WALL COMMERCIAL FILTERED WATER DISPENSER



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A6.5

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\Projects\2022\22-1836 CDL Edwardsburg Library\1 Drawing Files_Arch_Re

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# KEYNOTE LEGEND

NO.

Key Value	Keynote Text
06 10 00	Rough Carpentry
06 11 00.2.3	2X4 WOOD STUDS @ 16" O.C. (TYP)
06 43 00.2.1	WOOD STAIRS - REFER TO STRUCTURAL
06 43 00.2.2	WOOD HANDRAIL WITH HEAVY DUTY SUPPORT BRACKETS @ 36" O.C. (MAX) - BRACKET COLOR SHALL BE BLACK - HANDRAIL FINISH SHALL BE S&V-1
07 21 00.2.3	R-38 BATT INSULATION
07 92 00.2.1	CAULK SHALL BE PROVIDED BETWEEN ALL DISSIMILAR INTERIOR MATERIALS PER MANUFACTURERS WRITTEN REQUIREMENTS. (TYP)
09 22 16.2.1	"3 5/8"" METAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE COLD FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND DRYWALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT ALL LOCATIONS (TYP)"
09 22 16.2.2	"6"" METAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE COLD FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND DRYWALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT ALL LOCATIONS (TYP)"
09 29 10.2.1	GYPSUM WALL BOARD SHALL BE 5/8 (TYP). PROVIDE TYPE WR AT ALL TOILET ROOM AND WET WALL LOCATIONS. ALL OTHER LOCATIONS SHALL BE TYPE X (TYP). PROVIDE MUDDABLE CORNER BEAD AND J TRIM AT ALL EXPOSED DRYWALL END AND OPENING LOCATIONS. EXPOSED DRYWALL FINISH SHALL BE LEVEL 4 (TYP). PROVIDE CONTROL JOINTS AT 30FT O.C. (MAX) EQUALLY SPACED. PROVIDE CONTROL JOINTS AT ALL DOOR AND WINDOW LOCATIONS.

IMARC	Fort Wayne Benton Harb Manistee South Haven	Engineering, Arr
	315 W JEFFERSON BLVD South Bend, IN 46601 <b>T</b> 574.232.8700 <b>F</b> 574.251.4440 abonmarche.com	COPYRIGHT 2020 - ABONMARCHE CONSULTANTS, INC.
PROJECT: NEW CONSTRUCTION FOR:	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH 26977 W. MAIN STREET.	
	ENLARGED STAIR PLAN AND ELEVATIONS	
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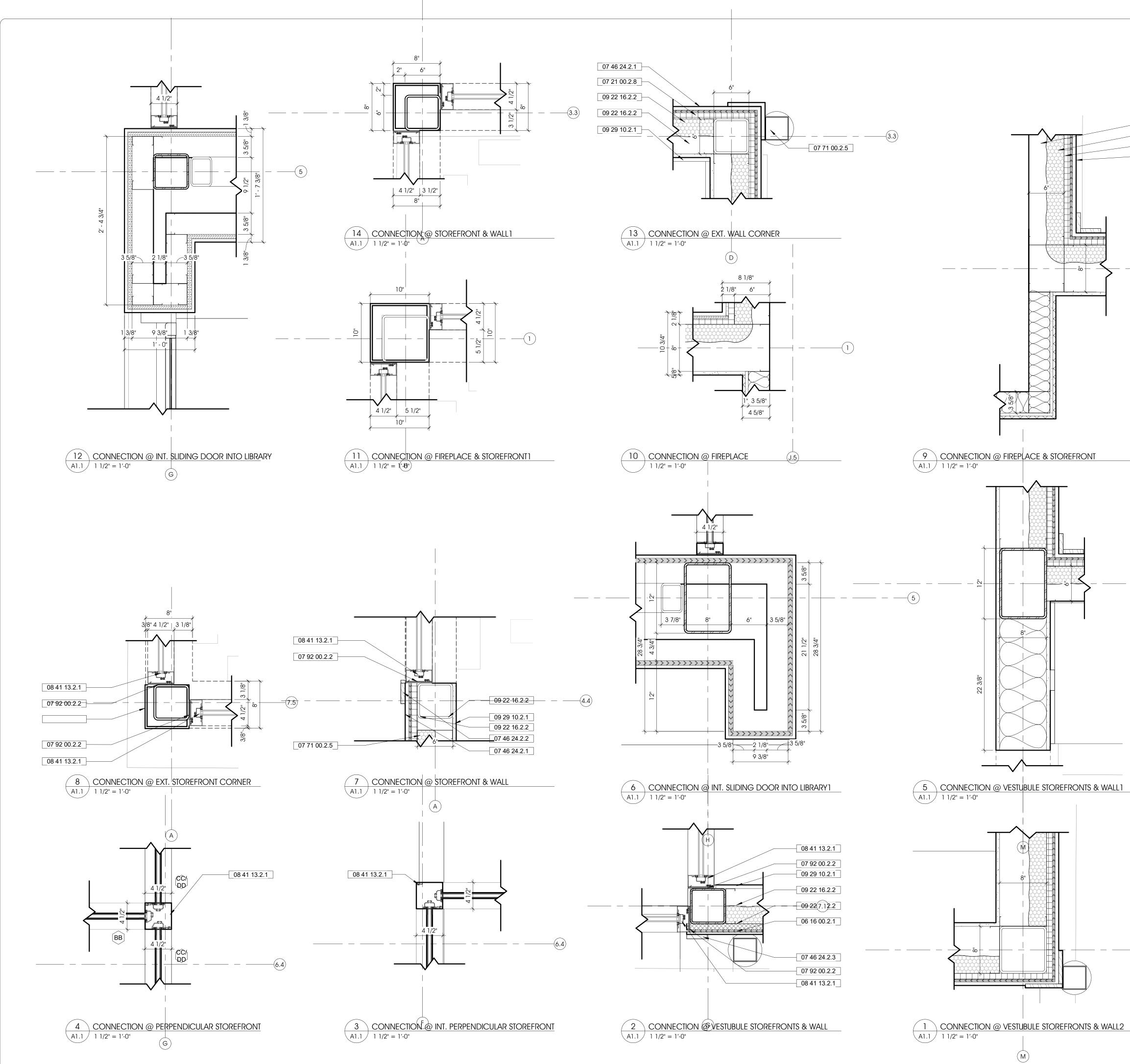
SHEET NO.

BY DATE

**REVISION DESCRIPTION** 

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	<u>GENERAL NOTES - PLAN DETAILS</u> A. BUILDING ENVELOPE SHALL BE WEATHERTIGHT.	Goshen Hobart Lafayette South Bend Valparaiso
	<ul> <li>B. PROVIDE SEALANT BETWEEN ALL DISSIMILAR MATERIALS. PROVIDE BACKER ROD WHERE REQUIRED. INSTALL PER MANUFACTURER'S WRITTEN REQUIREMENTS.</li> </ul>	ARACHE Fort Wayne Benton Harbor Manistee South Haven South Bend Valparaiso Engineering, Architecture, Land Surveying
	KEYNOTE LEGEND	Fort Ben Sou
09 22 16.2.2	Key Value Keynote Text	
09 22 16.2.2		
07 21 00.2.8	06 16 00.2.1 ZIP R-6 INSULATED WALL SHEATHING AND WEATHER BARRIER SYSTEM. PROVIDE ZIP SYSTEM TAPE AT ALL SEAMS AND BETWEEN ROOF AND WALL SHEATHING (TYP) FOR A COMPLETE WEATHER BARRIER SYSTEM BY HUBER ENGINEERED WOODS, WWW.HUBERWOOD.COM, 1-800-933-9220	AMIS. INC. Engineering
	07 21 00.2.8 "XPS RIGID INSULATION - PROVIDE TYPE IV AT ALL CAVITY WALL LOCATIONS, TYPE VI AT ALL FOUNDATION WALL LOCATIONS, AND TYPE VII AT ALL UNDER SLAB LOCATIONS"	DASULT.
	07 46 24.2.1 LP SMARTSIDE VERTICAL SIDING BOARD & BATTEN - PANEL SHALL BE SMOOTH - COLOR SHALL BE SHERWIN WILLIAMS SW9685 "AFTER THE STORM"	315 W JEFFERSON BLVD South Bend, IN 46601 574.251.4440 abonmarche.com
	07 46 24.2.2 LP SMARTSIDE 440 SERIES TRIM 5.5"	
	07 46 24.2.3 LP SMARTSIDE 440 SERIES TRIM 3.5"	L, IN 1, IN 700 1- AB
	07 71 00.2.5 "ALUMINUM DOWNSPOUT SHALL BE HEAVY DUTY, SMOOTH, 4"" x 4"" RECTANGULAR SHAPE - COLOR SHALL BE BLACK."	15 W JEFFERSON E 574.232.8700 574.251.4440 bonmarche.com
	07 92 00.2.2 SEALANT AND BACKER ROD SHALL BE PROVIDED BETWEEN ALL DISSIMILAR BUILDING ENVELOPE MATERIALS PER SEALANT MANUFACTURERS WRITTEN REQUIREMENTS. (TYP)	315 W South I 7 574.2 F 574.2 abonn
(1)	08 41 13.2.1 "ALUMINUM FRAMED STOREFRONTS SHALL BE TUBELITE 14000T SERIES. ALL EXTERIOR LOCATIONS SHALL HAVE THERMALLY BROKEN FRAMES. FRAME AND DOOR COLOR SHALL BE BLACK ANODIZED ALUMINUM. PROVIDE ACTUAL SAMPLE FOR FINAL APPROVAL. EXTERIOR DOORS SHALL BE INSULATED MEDIUM STILE WITH 5 VERTICAL STILES AND TOP RAIL, AND 10 BOTTOM RAIL."	FOR: CH N
	09 22 16.2.2 "6"" METAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE COLD FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND DRYWALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT ALL LOCATIONS (TYP)"	TION F LIBRAR BRANC I STREE RG, MI
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		CON SS DI VARD 977 V SDVA

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QA/QC REVIEW:

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ARVIN RIC DELACRUZ

ARCHITECT

1301060203

12/20/2023

HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT

BE ACCURATE FOR ANY OTHER SIZES

UNLESS NOTED OTHERWISE

22-1836

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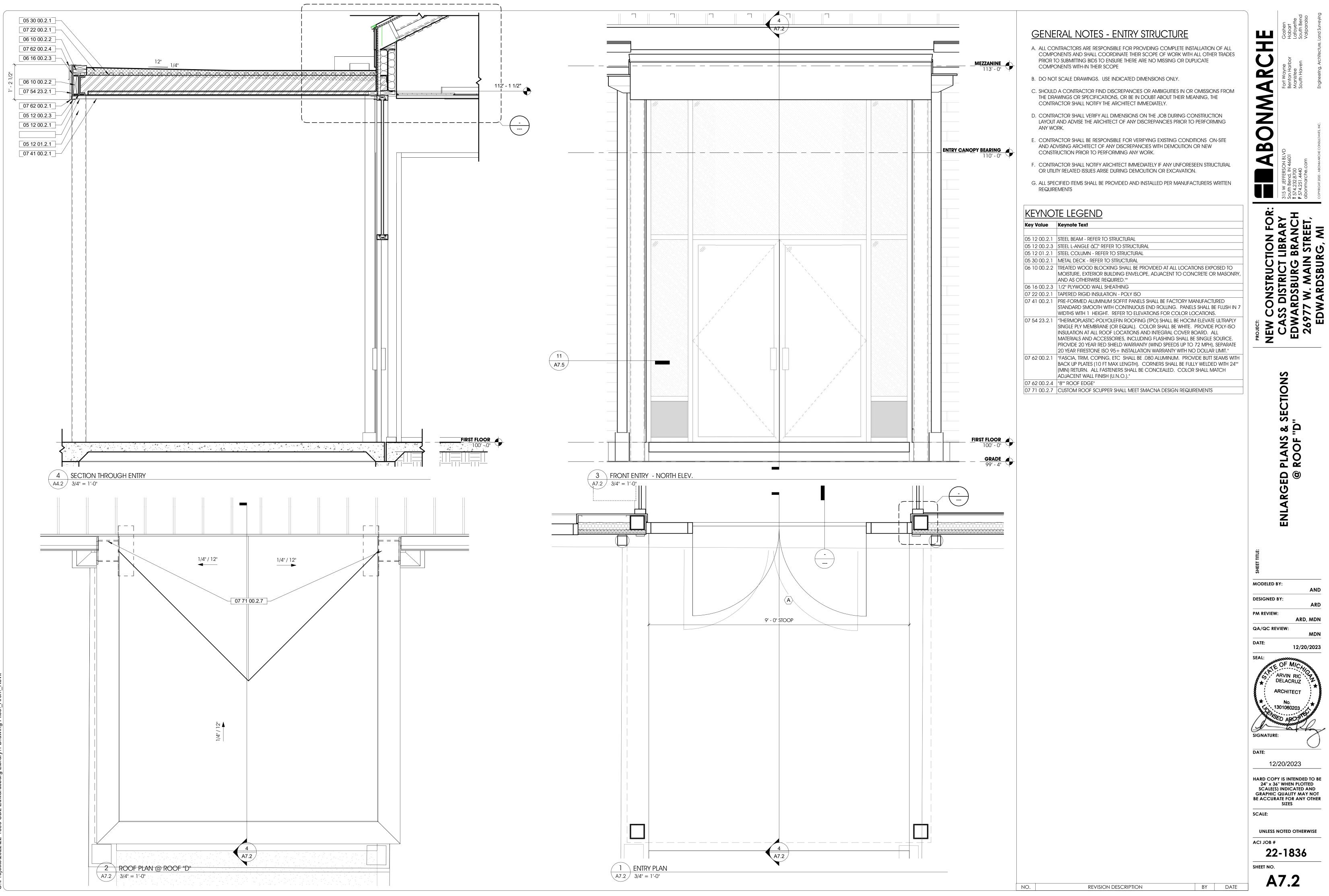
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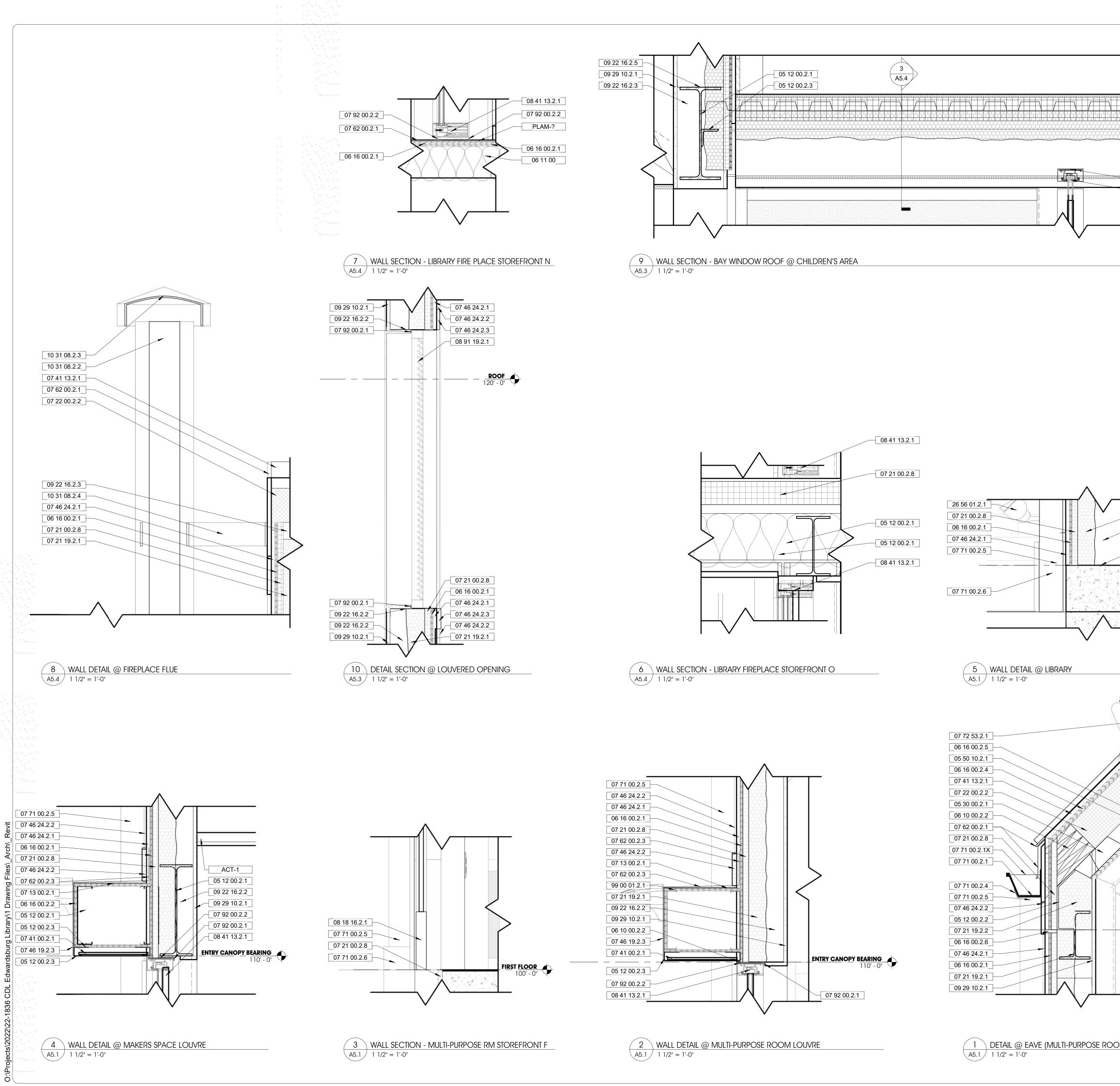
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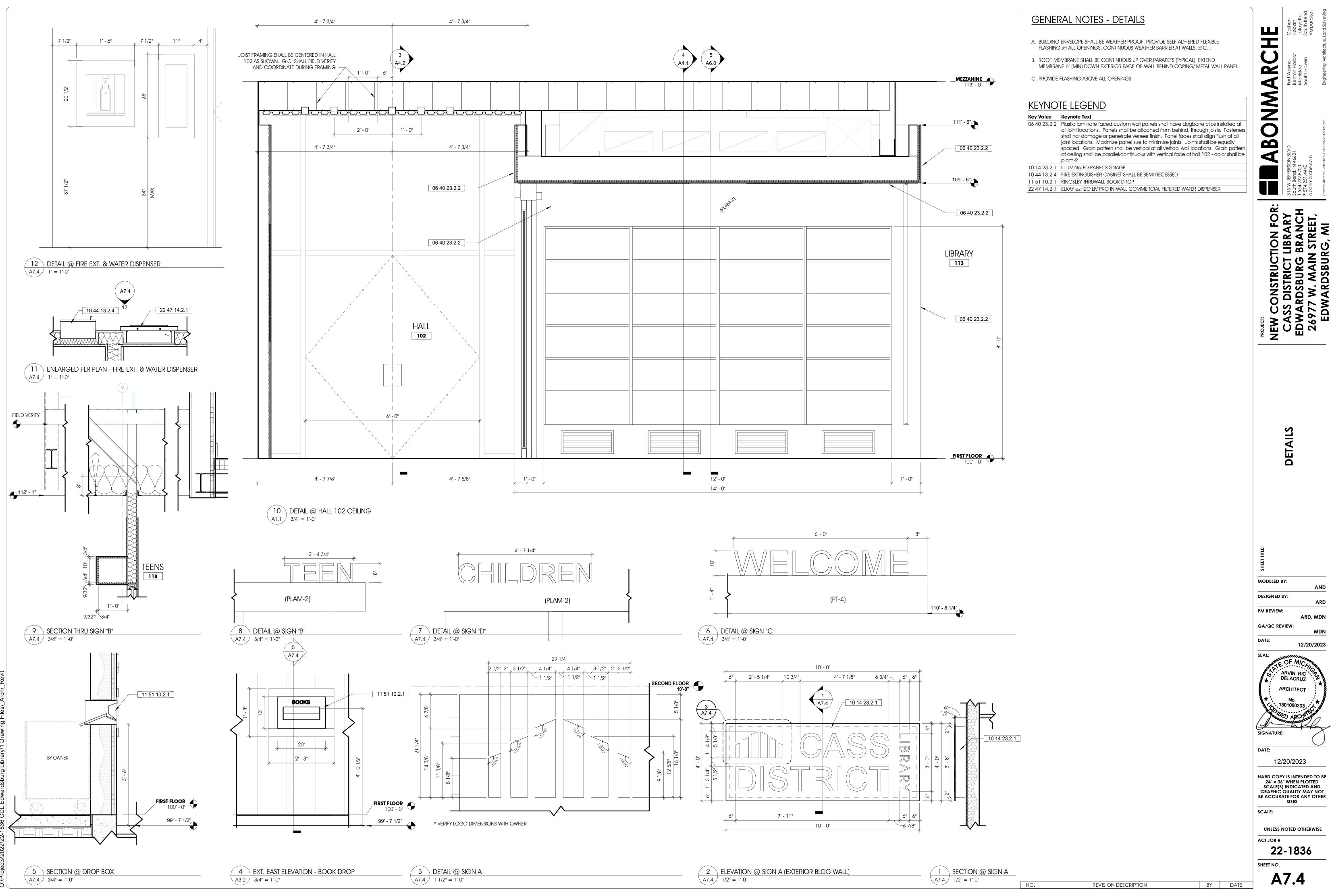
**REVISION DESCRIPTION** 

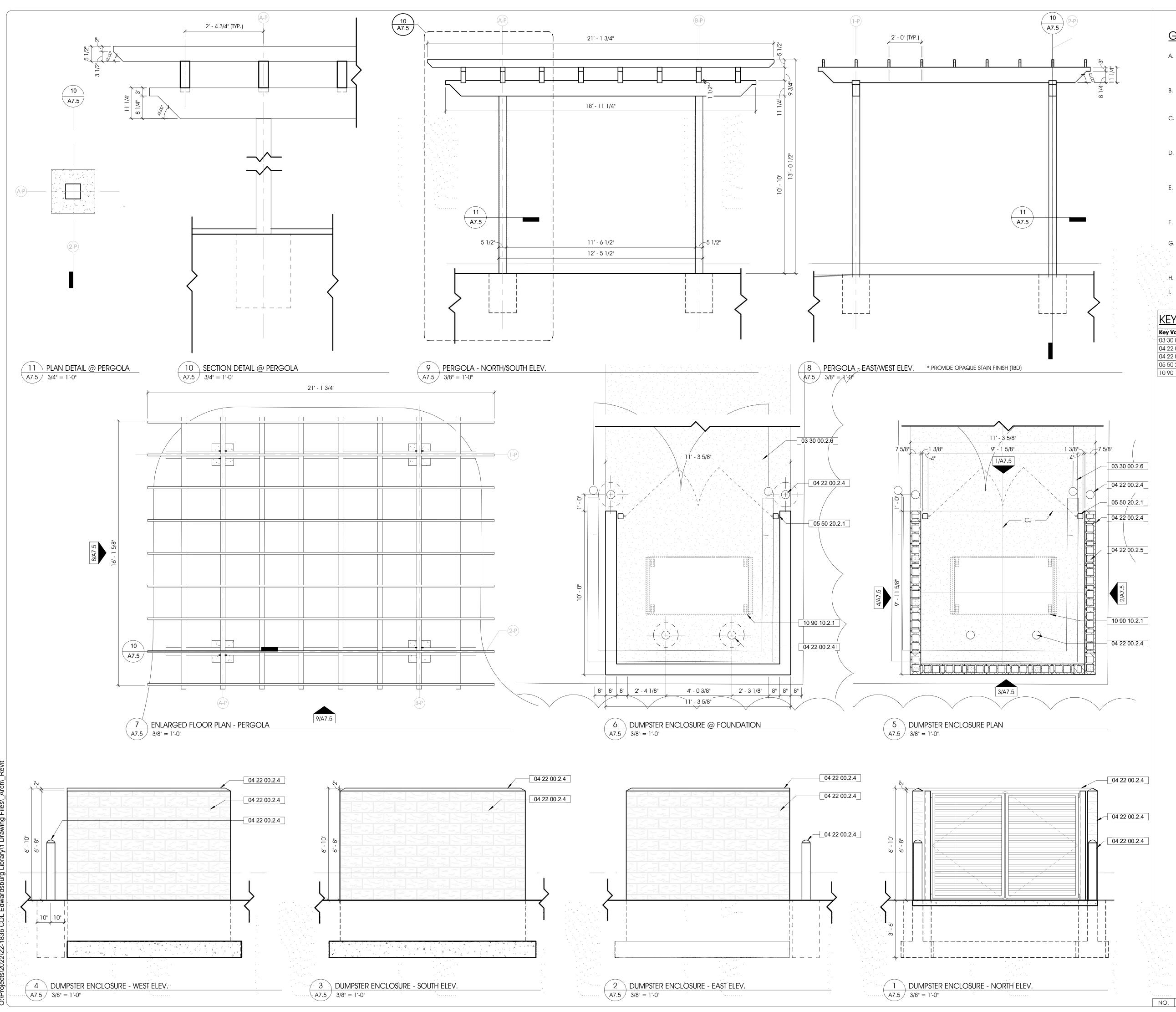


^orojects\2022\22-1836 CDL Edwardsburg Library\1 Drawing Files_Arch_Re



07 54 23.2.1	<u>Gener</u>	RAL NOTES - DETAILS	Goshen Hobart Lafayette South Bend Valparaiso
06 16 00.2.3		ENVELOPE SHALL BE WEATHER PROOF. PROVIDE SELF ADHERED FLEXIBLE © @ ALL OPENINGS, CONTINUOUS WEATHER BARRIER AT WALLS, ETC	Φ.
		MBRANE SHALL BE CONTINUOUS UP OVER PARAPETS (TYPICAL). EXTEND NE 6" (MIN) DOWN EXTERIOR FACE OF WALL BEHIND COPING/ METAL WALL PANEL.	ARAPA Fort Wayne Benton Harbor Manistee South Haven
		FLASHING ABOVE ALL OPENINGS	Fort Wayne Benton Harbor Manistee South Haven Engineering, Archi
			$\mathbf{S}$
05 12 00.2.1		TE LEGEND	
05 12 00.2.1	Key Value	Keynote Text       STEEL BEAM - REFER TO STRUCTURAL	
Division 09	05 12 00.2.2	STEEL CLIP ANGLE - REFER TO STRUCTURAL STEEL L-ANGLE â□™ REFER TO STRUCTURAL	B1VD 01 RcHe CONS
-	05 30 00.2.1	METAL DECK - REFER TO STRUCTURAL PREFABRICATED STEEL TRUSS - REFER TO STRUCTURAL	ERSON E RSON E 700 1440 19.com
	06 10 00.2.2	TREATED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS EXPOSED TO MOISTURE, EXTERIOR BUILDING ENVELOPE, ADJACENT TO CONCRETE OR MASONRY, AND AS OTHERWISE REQUIRED.""	315 W JEFFERSON BLVD South Bend, IN 46601 574.251.4440 abonmarche.com
	06 11 00 06 16 00.2.1	Wood Framing ZIP R-6 INSULATED WALL SHEATHING AND WEATHER BARRIER SYSTEM. PROVIDE ZIP	315 W. 315 W. 574.2 <b>F</b> 574.2 <b>d</b> bonm
		System Tape at all seams and between roof and wall sheathing (typ) for a Complete weather barrier system by huber engineered woods, WWW.Huberwood.com, 1-800-933-9220	ä ≻ Ω ⊢
	06 16 00.2.2	5/8" ZIP SYSTEM ROOF SHEATHING AT ALL GABLE ROOFS SHALL BE CONTINUOUS AROUND ROOF EDGE DETAIL. PROVIDE ZIP SYSTEM TAPE AT ALL SEAMS AND	AN FO ANO ANO MI
_	06 16 00.2.3	BETWEEN ROOF AND WALL SHEATHING (TYP) FOR A COMPLETE WEATHER BARRIER SYSTEM BY HUBER ENGINEERED WOODS, www.huberwood.com, 1-800-933-9220 1/2" PLYWOOD WALL SHEATHING	רי א <u>ר</u> א <u>ה</u> ה
	06 16 00.2.4	3/4" Plywood Roof Sheathing with "H" clips or "T&G" 3/4" T1-11 Architectural grade Sheathing with Reveals @ 6" O.C Shall Be	
		STAINED AND VARNISHED EXPANSION JOINT "PROVIDE ZIP SYSTEM STRETCH TAPE AT ALL OPENINGS, PENETRATIONS, ETC"	
		"PROVIDE ZIP SYSTEM STRETCH TAPE AT ALL OPENINGS, PENETRATIONS, ETC" "XPS RIGID INSULATION - PROVIDE TYPE IV AT ALL CAVITY WALL LOCATIONS, TYPE VI AT ALL FOUNDATION WALL LOCATIONS, AND TYPE VII AT ALL UNDER SLAB LOCATIONS"	DIS DIS RDS 7 W.
_		"3"" (MIN) CLOSED CELL SPRAY POLYURETHANE FOAM INSULATION AND VAPOR BARRIER SYSTEM"	VA SS
		"6" (MIN) CLOSED CELL SPRAY POLYURETHANE FOAM INSULATION AND VAPOR BARRIER SYSTEM" POLYISOCYANURATE INSULATION WITH COVER BOARD AS REQUIRED BY ROOFING	
		MANUFACTURER'S WRITTEN REQUIREMENTS PRE-FORMED ALUMINUM SOFFIT PANELS SHALL BE FACTORY MANUFACTURED	
-	07 41 13.2.1	Standard Smooth with Continuous end Rolling. Panels shall be flush in 7 Widths with 1 Height. Refer to elevations for Color Locations. Pac clad tite-loc plus standind seam metal Roof. Color shall be	
		GRAPHITE QUALITY EDGE VESTA STEEL FASCIA AND TRIM - 480 AUTUMN THISTLE	
_		LP SMARTSIDE VERTICAL SIDING BOARD & BATTEN - PANEL SHALL BE SMOOTH - COLOR SHALL BE SHERWIN WILLIAMS SW9685 "AFTER THE STORM" LP SMARTSIDE 440 SERIES TRIM 5.5"	
07 21 19.2.1	07 46 24.2.3	LP SMARTSIDE 440 SERIES TRIM 3.5" "THERMOPLASTIC-POLYOLEFIN ROOFING (TPO) SHALL BE HOCIM ELEVATE ULTRAPLY	ILS
09 29 10.2.1		SINGLE PLY MEMBRANE (OR EQUAL). COLOR SHALL BE WHITE. PROVIDE POLY-ISO INSULATION AT ALL ROOF LOCATIONS AND INTEGRAL COVER BOARD. ALL MATERIALS AND ACCESSORIES, INCLUDING FLASHING SHALL BE SINGLE SOURCE.	ETA
09 22 16.2.5	07 ( 0 00 0 1	PROVIDE 20 YEAR RED SHIELD WARRANTY (WIND SPEEDS UP TO 72 MPH), SEPARATE 20 YEAR FIRESTONE ISO 95+ INSTALLATION WARRANTY WITH NO DOLLAR LIMIT."	
FIRST FLOOR 100' - 0"	07 62 00.2.1	"FASCIA, TRIM, COPING, ETC SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24"" (MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH	l lo
<i>≫</i> ⊣ U/ Z1 UU Z 8 I I ⊨		Adjacent Wall Finish (U.N.O.)." Through Wall Flashing "Aluminum Gutter Shall be heavy duty. Provide Additional 1/8""x1 1/2""	ECI
	077100.2.1	SUPPORT BRACKETS AT 36"" O.C. GUTTER PROFILE SHALL BE 6""W x 4.5""D STYLE F PER SMACNA ARCHITECTURAL SHEET METAL MANUAL. GUTTER AND SUPPORT	S
	07 71 00.2.1X	BRACKET - COLOR SHALL BE DARK BLACK." MBCI GUTTER STRAP FL-893	
	07 71 00.2.4 07 71 00.2.5	"GUTTER BRACKET 1 1/2"" X 1/8"" @ 36"" O.C COLOR SHALL MATCH GUTTER" "ALUMINUM DOWNSPOUT SHALL BE HEAVY DUTY, SMOOTH, 4"" x 4"" RECTANGULAR SHAPE - COLOR SHALL BE BLACK."	
		DOWNSPOUT BOOT TO TIE INTO STORM WATER PIPING - REFER TO CIVIL DRAWINGS SNOW GUARDS	
	07 92 00.2.1	CAULK SHALL BE PROVIDED BETWEEN ALL DISSIMILAR INTERIOR MATERIALS PER MANUFACTURERS WRITTEN REQUIREMENTS. (TYP)	
_		SEALANT AND BACKER ROD SHALL BE PROVIDED BETWEEN ALL DISSIMILAR BUILDING ENVELOPE MATERIALS PER SEALANT MANUFACTURERS WRITTEN REQUIREMENTS. (TYP) MULTI-PANEL SLIDING ALUMINUM-FRAMED GLASS DOORS	MODELED BY:
		"ALUMINUM FRAMED STOREFRONTS SHALL BE TUBELITE 14000T SERIES. ALL EXTERIOR LOCATIONS SHALL HAVE THERMALLY BROKEN FRAMES. FRAME AND DOOR COLOR SHALL BE BLACK ANODIZED ALUMINUM. PROVIDE ACTUAL SAMPLE FOR FINAL	AND, JCA DESIGNED BY: ARD
		APPROVAL. EXTERIOR DOORS SHALL BE INSULATED MEDIUM STILE WITH 5 VERTICAL STILES AND TOP RAIL, AND 10 BOTTOM RAIL."	PM REVIEW: ARD, MDN
		FIXED LOUVERS "6"" METAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE COLD FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND	QA/QC REVIEW:
	00.00.14.0.5	DRYWALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT ALL LOCATIONS (TYP)"	DATE: 12/20/2023
	09 22 16.2.3	8" METAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS (OR EQUAL). PROVIDE COLD FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND DRYWALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT	SEAL: OF MICHIOOD
		All Locations (typ)" 8" Base Track Gypsum Wall Board Shall BE 5/8 (typ). Provide type wr at all toilet room	G ARVIN RIC 7 DELACRUZ 7
$\langle     \rangle$		AND WET WALL LOCATIONS. ALL OTHER LOCATIONS SHALL BE TYPE X (TYP). PROVIDE MUDDABLE CORNER BEAD AND J TRIM AT ALL EXPOSED DRYWALL END	ARCHITECT
	1. 1. 1. 1.	AND OPENING LOCATIONS. EXPOSED DRYWALL FINISH SHALL BE LEVEL 4 (TYP). PROVIDE CONTROL JOINTS AT 30FT O.C. (MAX) EQUALLY SPACED. PROVIDE CONTROL JOINTS AT ALL DOOR AND WINDOW LOCATIONS.	SED ARCHY CONSTRUCTION
	10 31 08.2.3	MANUFACTURED METAL CHIMNEY FLUE MANUFACTURED METAL CHIMNEY CAP	SIGNATURE:
	26 56 01.2.1	MANUFACTURED METAL CHIMNEY STRAP EXTERIOR LED UP LIGHT ARCHITECTURAL EYEBROW ABOVE STOREFRONT	DATE:
<u> </u>			12/20/2023
			HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AND
			SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZES
			SCALE:
			UNLESS NOTED OTHERWISE
			ACI JOB # 22-1836





### GENERAL NOTES - DUMPSTER ENCLOSURE

- A. PROVIDE 24" WIDE x 12" DEEP POURED CONC. FOOTING SET 48" BELOW GRADE -REINFORCING TO BE (3) CONT. #4 BARS, 3" ABOVE BOTTOM W/ #4 BENT DOWELS @ 32" O.C. TIED TO CONT. BARS & EXTENDING 12" ABOVE FOOTING INTO CENTER OF WALL ABOVE
- B. FOUNDATION WALLS SHALL BE 8" POURED CONC. REINFORCED W/ (3) HORIZ. #4 BARS & #4 BARS AT 32" O.C. VERT. TIED TO REINFORCING FROM FOOTING - VERT. BARS TO EXTEND 24" ABOVE TOP OF WALL
- C. DUMPSTER ENCLOSURE WALLS SHALL BE 8" SPLIT FACE CMU WALLS SHALL BE REINFORCED W/ #4 VERT. BARS IN SOLID GROUTED CORES AT 32" O.C. TIED TO BARS EXTENDING FROM FOUNDATION WALL - PROVIDE BOND BEAM TOP COURSE W/ CONT. #4 BAR IN SOLID CONC. GROUT W/ SLOPED TOP. PAINT TO MATCH BUILDING
- D. DOORS SHALL BE MOUNTED TO 4" x 4" x 1/4" GALV. STEEL TUBES BOLTED TO SOLID GROUTED END CORE OF CMU WALL - PROVIDE (5) GALV. EPOXY ANCHORS 9" LONG W/ 4" MIN. EMBED - TUBES SHALL HAVE SHOP WELDED TOP CAPS - ALL EXPOSED GALV. STEEL SHALL BE PRIMED & PAINTED (COLOR SHALL MATCH BLDG.)
- E. GATES SHALL BE 2" x 2" GALV. STEEL TUBE FRAMES W/ PVC FENCE GATE OVER EXTERIOR FACE OF FRAME PROVIDE (4) HEAVY DUTY GALV. STEEL HINGES, HASP W/ PADLOCK & PINS W/ SLEEVES - ALL EXPOSED GALV. STEEL SHALL BE PRIMED & PAINTED (COLOR SHALL MATCH BLDG.) COLOR SHALL BE BLACK
- F. PROVIDE (4) FOUR GALV. STEEL TUBE BOLLARDS SET IN CONC. W/ PVC SLIP ON YELLOW COVERS
- G. ALL GALVANIZED SURFACES SHALL BE CLEANED AS REQUIRED BY PAINT MANUFACTURER'S WRITTEN REQUIREMENTS. PROVIDE (2) COATS OF SHERWIN WILLIAMS 'SUPERPAINT EXTERIOR ACRYLIC LATEX' PAINT OVER SHERWIN WILLIAMS 'PRO INDUSTRIAL PRO-CRYL UNIVERSAL ACRYLIC PRIMER
- H. REFER TO STRUCTURAL DRAWINGS & SPECS FOR ADDITIONAL INFORMATION
- I. REFER TO CIVIL DRAWING FOR SITE ELEVATIONS

# KEYNOTE LEGEND

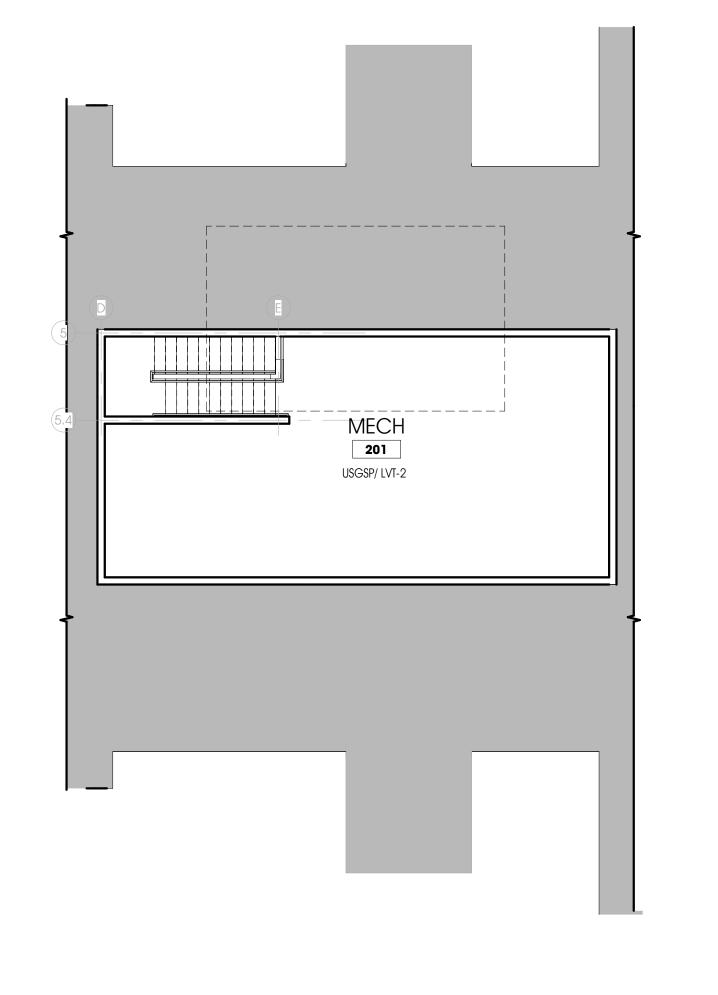


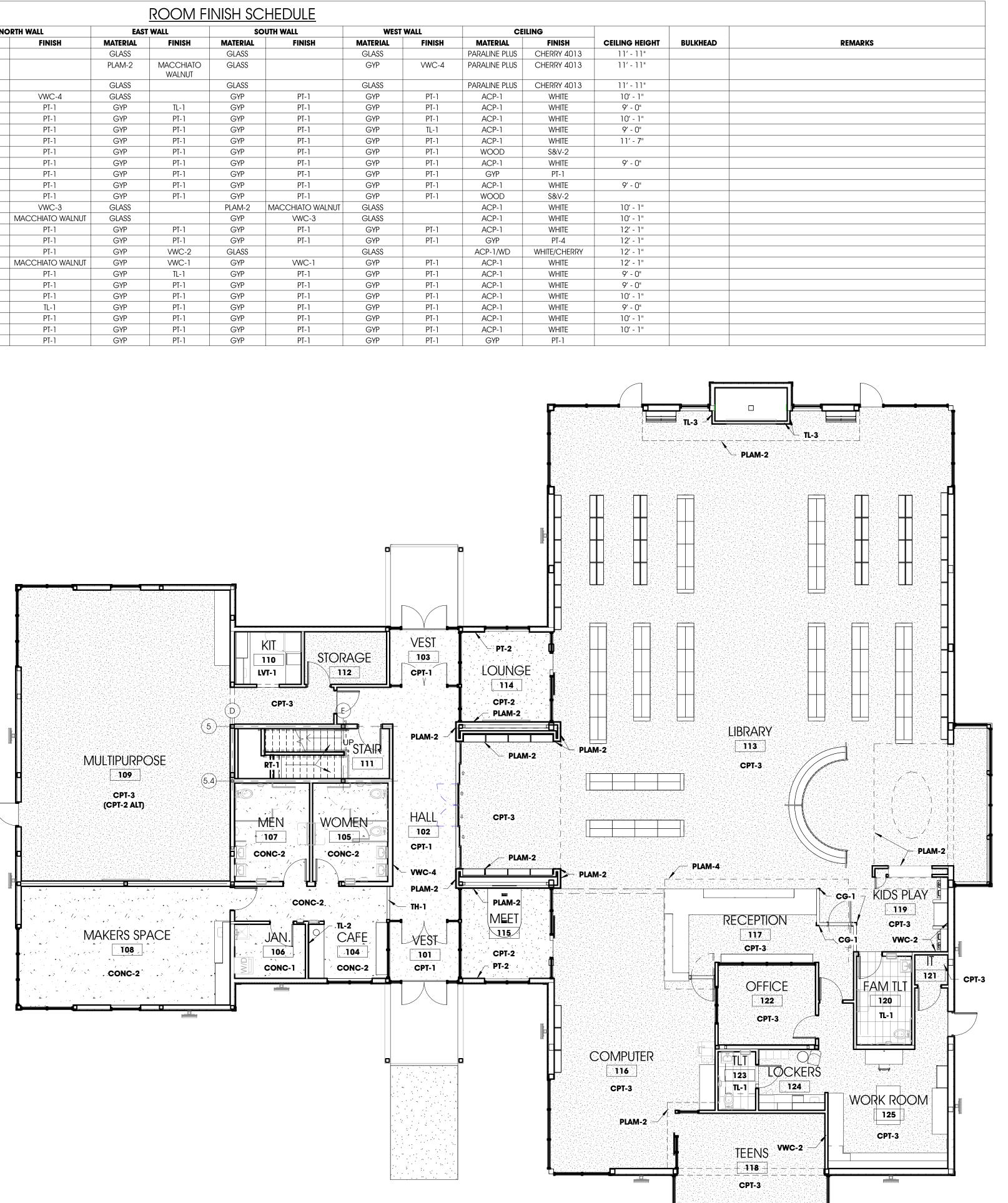
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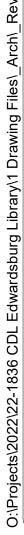
22-1836
SHEET NO.
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RM. NO.	ROOM NAME	FLO	FLOORING		NORTH WALL		E	
		MATERIAL	FINISH	BASE	MATERIAL	FINISH	MATERIAL	
101	VEST	CONC.	CPT-1	CTB-1	GLASS		GLASS	
102	HALL	CONC.	CPT-1	RB-1	GYP		PLAM-2	
103	VEST	CONC.	CPT-1	RB-1	GLASS		GLASS	
104	CAFE	CONC.	CONC-2	RB-1	GYP	VWC-4	GLASS	
105	WOMEN	CONC.	CONC-2	CTB	GYP	PT-1	GYP	
106	JAN.	CONC.	CONC-2	RB-1	GYP	PT-1	GYP	
107	MEN	CONC.	CONC-2	CTB	GYP	PT-1	GYP	
108	MAKERS SPACE	CONC.	CONC-2	RB-1	GYP	PT-1	GYP	
109	MULTIPURPOSE	CONC.	CPT-3	RB-1	GYP	PT-1	GYP	
110	КІТ	CONC.	LVT-1	RB-1	GYP	PT-1	GYP	
111	STAIR	CONC.	CPT-3	RB-1	GYP	PT-1	GYP	
112	STORAGE	CONC.	CPT-3	RB-1	GYP	PT-1	GYP	
113	LIBRARY	CONC.	CPT-3	RB-1	GYP	PT-1	GYP	
114	LOUNGE	CONC.	CPT-2	RB-1	GYP	VWC-3	GLASS	
115	MEET	CONC.	CPT-2	RB-1	PLAM-2	MACCHIATO WALNUT	GLASS	
116	COMPUTER	CONC.	CPT-3	RB-1	GYP	PT-1	GYP	
117	RECEPTION	CONC.	CPT-3	RB-1	GYP	PT-1	GYP	
118	TEENS	CONC.	CPT-3	RB-1	GYP	PT-1	GYP	
119	KIDS PLAY	CONC.	CPT-3	RB-1	PLAM-2	MACCHIATO WALNUT	GYP	
120	FAM TLT	CONC.	TL-1	CTB	GYP	PT-1	GYP	
121	IT	CONC.	CPT-3	RB-1	GYP	PT-1	GYP	
122	OFFICE	CONC.	CPT-3	RB-1	GYP	PT-1	GYP	
123	TLT	CONC.	TL-1	CTB	GYP	TL-1	GYP	
124	LOCKERS	CONC.	CPT-3	RB-1	GYP	PT-1	GYP	
125	WORK ROOM	CONC.	CPT-3	RB-1	GYP	PT-1	GYP	
201	МЕСН	WD.	LVT-2	RB-1	GYP	PT-1	GYP	

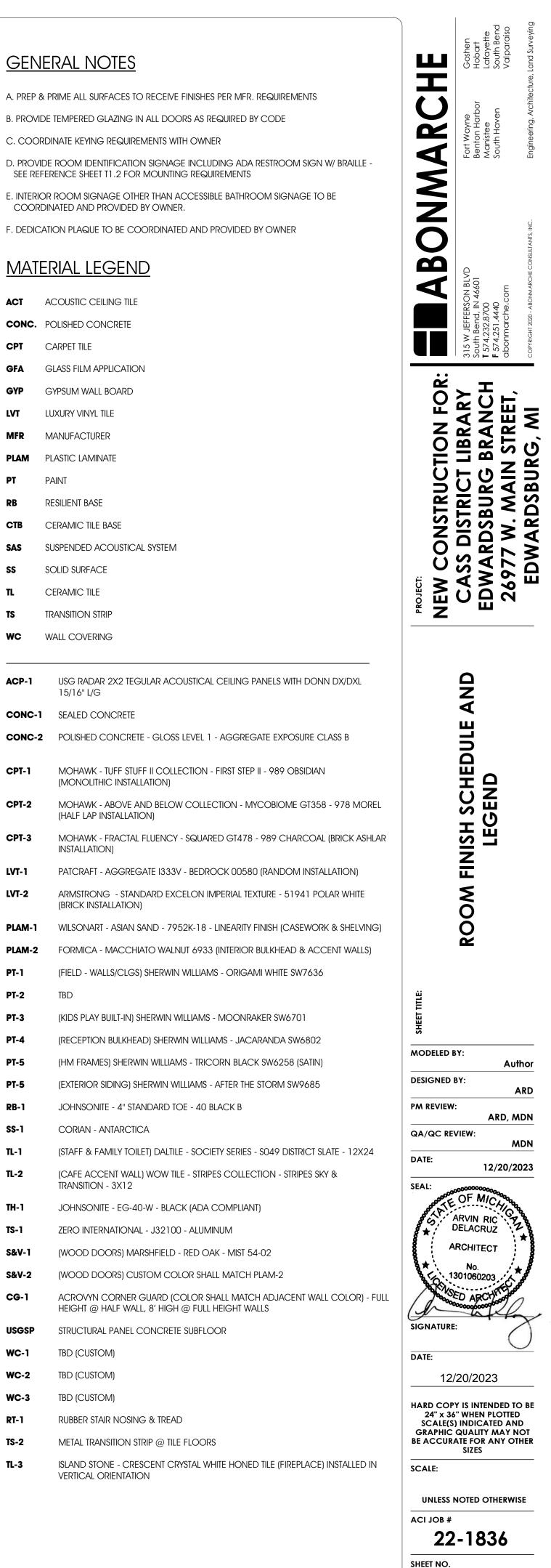












- A. PREP & PRIME ALL SURFACES TO RECEIVE FINISHES PER MFR. REQUIREMENTS
- B. PROVIDE TEMPERED GLAZING IN ALL DOORS AS REQUIRED BY CODE
- C. COORDINATE KEYING REQUIREMENTS WITH OWNER
- D. PROVIDE ROOM IDENTIFICATION SIGNAGE INCLUDING ADA RESTROOM SIGN W/ BRAILLE -SEE REFERENCE SHEET T1.2 FOR MOUNTING REQUIREMENTS
- E. INTERIOR ROOM SIGNAGE OTHER THAN ACCESSIBLE BATHROOM SIGNAGE TO BE COORDINATED AND PROVIDED BY OWNER.
- F. DEDICATION PLAQUE TO BE COORDINATED AND PROVIDED BY OWNER

#### MATERIAL LEGEND

ACT ACOUSTIC CEILING TILE

**CONC.** POLISHED CONCRETE

GFA GLASS FILM APPLICATION

GYPSUM WALL BOARD

LVT LUXURY VINYL TILE

MFR MANUFACTURER

PLAM PLASTIC LAMINATE

**RB** RESILIENT BASE

CERAMIC TILE BASE

SOLID SURFACE

CERAMIC TILE

TRANSITION STRIP

15/16" L/G

(HALF LAP INSTALLATION)

(BRICK INSTALLATION)

CORIAN - ANTARCTICA

TRANSITION - 3X12

TBD (CUSTOM)

TBD (CUSTOM)

TBD (CUSTOM)

VERTICAL ORIENTATION

INSTALLATION)

**CONC-1** SEALED CONCRETE

WC WALL COVERING

PT PAINT

SAS

SS

TL

TS

ACP-1

LVT-1

LVT-2

PT-1

PT-2

PT-3

PT-4

PT-5

PT-5

RB-1

SS-1

TL-1

TL-2

TH-1

TS-1

S&V-1

S&V-2

CG-1

USGSP

WC-1

WC-2

WC-3

RT-1

TS-2

TL-3

TBD

CPT CARPET TILE

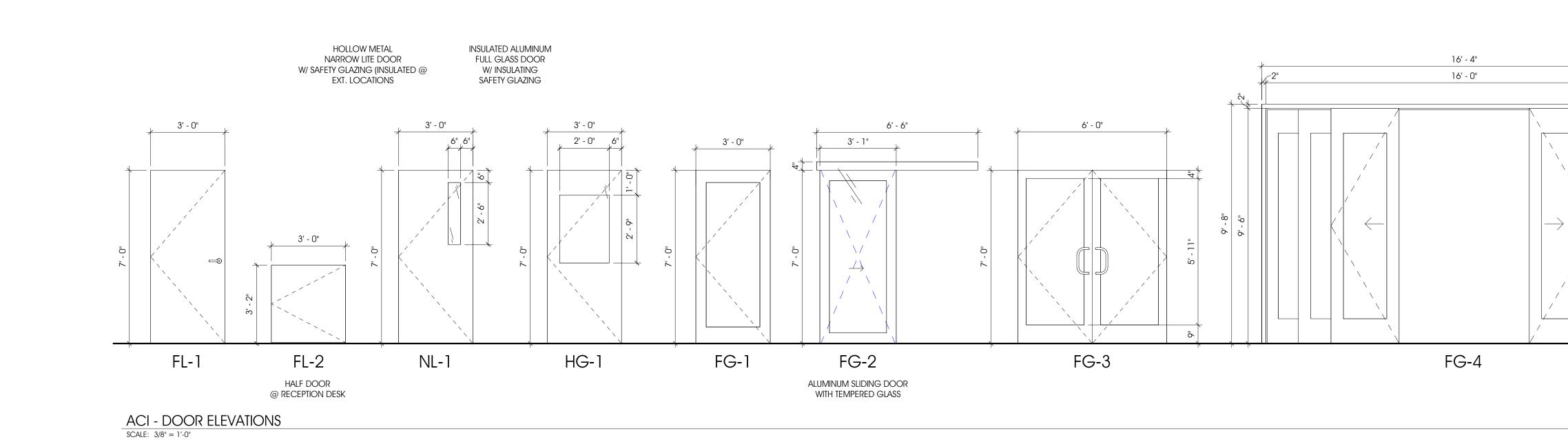
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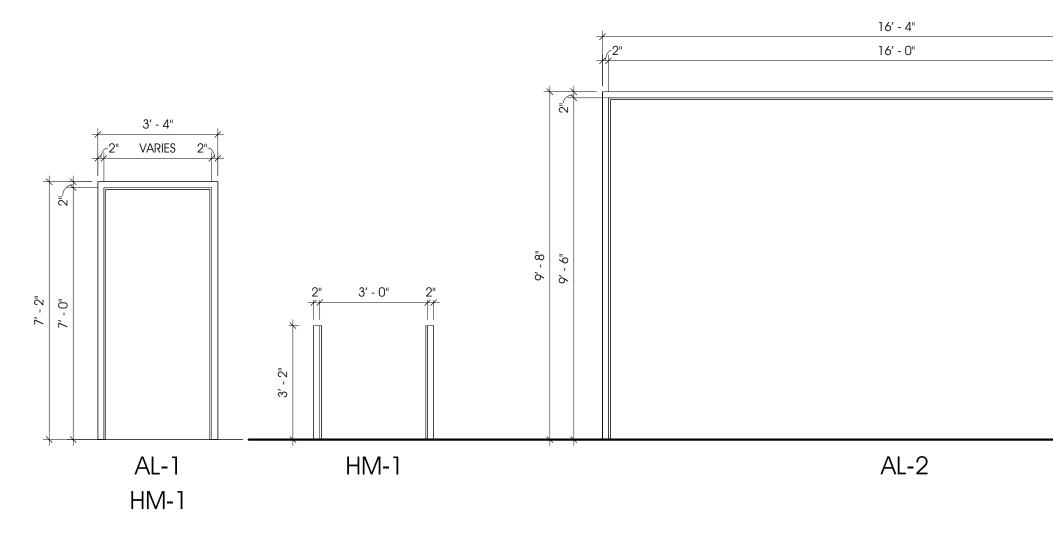
**REVISION DESCRIPTION** 

BY DATE

**A8.1** 

								[	DOOR S	CHEDUI	<u>LE</u>				
			DOOR		PANEL FRAME						HARDWARE	HARDWARE			
NO.	TO ROOM	HANDING	WxHxT	RATING	TYPE	CORE	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH	GROUP	FUNCTION	REMARKS
101-A	VEST. 101	RHR	6' - 0" x 7' - 0"	-	FG-3	INSUL	ALUM	BLK ANOD	1" INSUL	A	ALUM (INSUL)	BLK ANOD		EGRESS (EXT.)	
101-B	HALL	RHR	6' - 0" x 7' - 0"	-	FG-3	MFR	ALUM	BLK ANOD	1" INSUL	BB	ALUM	BLK ANOD		EGRESS (INT.)	
103-A	VEST. 103	RHR	6' - 0" x 7' - 0"	-	FG-3	INSUL	ALUM	BLK ANOD	1" INSUL	J	ALUM (INSUL)	BLK ANOD		EGRESS (EXT.)	
103-В	HALL	RHR	6' - 0" x 7' - 0"	-	FG-3	MFR	ALUM	BLK ANOD	1" INSUL	GG	ALUM	BLK ANOD		EGRESS (INT.)	
105-A	WOMEN (ADA)	LH	3' - 0" x 7' - 0" x 0' - 1 3/4"	-	FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-5		PRIVACY	
106-A	JAN.	LH	3' - 0" x 7' - 0" x 0' - 1 3/4"	-	NL-1	SOLID	WD	S&V-1	1/4"	HM-1	STL	PT-5		STORAGE	
107-A	MEN (ADA)	RH	3' - 0" x 7' - 0" x 0' - 1 3/4"	-	FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-5		PRIVACY	
108-A	MAKERS SPACE	RHR	3' - 0" x 7' - 0" x 0' - 1 3/4"	-	FG-1	SOLID	WD	S&V-1	1" INSUL	HM-1	STL	PT-5		CLASSROOM	
109-A	MULTIPURPOSE	RHR	3' - 0" x 7' - 0" x 0' - 1 3/4"	-	FG-1	SOLID	WD	S&V-1	1" INSUL	HM-1	STL	PT-5		CLASSROOM	
109-B	MULTIPURPOSE	LHR	3' - 0" x 7' - 0"	-	FG-1	INSUL	ALUM	BLK ANOD	1" INSUL	F	ALUM (INSUL)	BLK ANOD		EGRESS (EXT.)	
111-A	STAIR	RHR	3' - 0" x 7' - 0" x 0' - 1 3/4"	45 MIN	FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-5		STORAGE	
112-A	STORAGE	LH	3' - 0" x 7' - 0" x 0' - 1 3/4"	-	NL-1	SOLID	WD	S&V-1	1/4"	HM-1	STL	PT-5		STORAGE	
113-A	LIBRARY	BI-PARTING	17' - 0" x 9' - 6" x 0' - 0"	-	FG-4	MFR	ALUM	BLK ANOD	1/4"	AL-2	ALUM	BLK ANOD		SLIDING	
113-B	LIBRARY	LHR	3' - 0" x 7' - 0"	-	FG-1	INSUL	ALUM	BLK ANOD	1" INSUL	AL-1	ALUM (INSUL)	BLK ANOD		EGRESS (EXT.)	
113-C	LIBRARY	RHR	3' - 0" x 7' - 0"	-	FG-1	INSUL	ALUM	BLK ANOD	1" INSUL	AL-1	ALUM (INSUL)	BLK ANOD		EGRESS (EXT.)	
114-A	LOUNGE	LH - SLIDING	3' - 0" x 7' - 0"	-	FG-2	MFR	ALUM	BLK ANOD	1/4"	HH	ALUM	BLK ANOD		SLIDING	
115-A	MEET	RH - SLIDING	3' - 0" x 7' - 0"	-	FG-2	MFR	ALUM	BLK ANOD	1/4"	II	ALUM	BLK ANOD		SLIDING	
117-A	CIRCULATION	LHR	3' - 3 1/4" x 3' - 3 1/2" x 0' - 1 3/4"	-	FL-2	SOLID	WD	S&V-1	-	HM-2	STL	PT-5		DBL SWING	
117-В	CIRCULATION	RH	3' - 3 1/4" x 3' - 3 1/2" x 0' - 1 3/4"	-	FL-2	SOLID	WD	S&V-1	-	HM-2	STL	PT-5		DBL SWING	
118-A	TEENS	RH - SLIDING	3' - 0" x 7' - 0"	-	FG-2	MFR	ALUM	BLK ANOD	1/4"	LL	ALUM	BLK ANOD		SLIDING	
120-A	FAM TLT (ADA)	RH	3' - 0" x 7' - 0" x 0' - 1 3/4"	-	FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-5		PRIVACY	
121-A	IT	LHR	3' - 0" x 7' - 0" x 0' - 1 3/4"	-	FG-1	SOLID	WD	S&V-1	1" INSUL	HM-1	STL	PT-5		STORAGE	
122-A	OFFICE	LH	3' - 0" x 7' - 0" x 0' - 1 3/4"	-	HG-1	SOLID	WD	S&V-1	1/4"	HM-1	STL	PT-5		OFFICE	
123-A	TLT (ADA)	RHR	3' - 0" x 7' - 0" x 0' - 1 3/4"	-	FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-5		PRIVACY	
125-A	WORK ROOM	RHR	3′ - 0" x 7′ - 0" x 0′ - 1 3/4"		HG-1	SOLID	WD	S&V-1	1/4"	HM-1	STL	PT-5		OFFICE	
125-B	WORK ROOM	RHR	3' - 0" x 7' - 0" x 0' - 1 3/4"	-	HG-1	INSUL	ALUM	BLK ANOD	1" INSUL	AL-1	ALUM (INSUL)	BLK ANOD		EGRESS (EXT.)	





#### ACI - DOOR FRAME ELEVATIONS SCALE: 3/8" = 1'-0"

# <u>GENERAL NOTES</u>

- A. ALL CONTRACTORS ARE RESPONSIBLE FOR PROVIDING COMPLETE INSTALLATION OF ALL COMPONENTS AND SHALL COORDINATE THEIR SCOPE OF WORK WITH ALL OTHER TRADES PRIOR TO SUBMITTING BIDS TO ENSURE THERE ARE NO MISSING OR DUPLICATE COMPONENTS WITH-IN THEIR SCOPE
- B. DO NOT SCALE DRAWINGS. USE INDICATED DIMENSIONS ONLY.
- C. SHOULD A CONTRACTOR FIND DISCREPANCIES OR AMBIGUITIES IN OR OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, OR BE IN DOUBT ABOUT THEIR MEANING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.
- D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB DURING CONSTRUCTION LAYOUT AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.
- E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS ON-SITE & ADVISING ARCHITECT OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.
- F. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY UNFORESEEN STRUCTURAL OR UTILITY RELATED ISSUES ARISE DURING DEMOLITION OR EXCAVATION.
- G. ALL SPECIFIED ITEMS SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS WRITTEN REQUIREMENTS
- H. PROVIDE RECEIVER CHANNELS AT ALL SLIDING DOORS (TYP)
- I. PROVIDE TEMPERED SAFETY GLAZING AT ALL DOORS, OPERABLE WINDOWS, & AT ALL GLAZING LOCATIONS WITHIN 18" A.F.F.

LH LHR

LHS RH

RHR

RHS

- J. REFER TO SPECIFICATIONS FOR DOOR HARDWARE.
- K. REFER TO SHEETS A8.3 & A8.4 STOREFRONT ELEVATIONS.

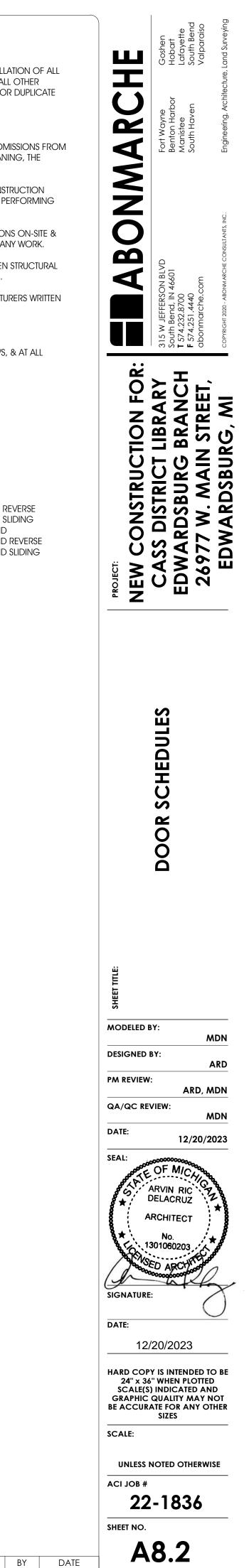
#### ABBREVIATION LEGEND

ALUM ANOD EXIST MFR B.O. P REV SLIDE STL THERM BRK WD SFW	Aluminum Anodized Existing Manufacturer By Owner Paint Reverse Sliding Steel Thermal Break Wood Store Front Window	
SFW	STORE FRONT WINDOW	

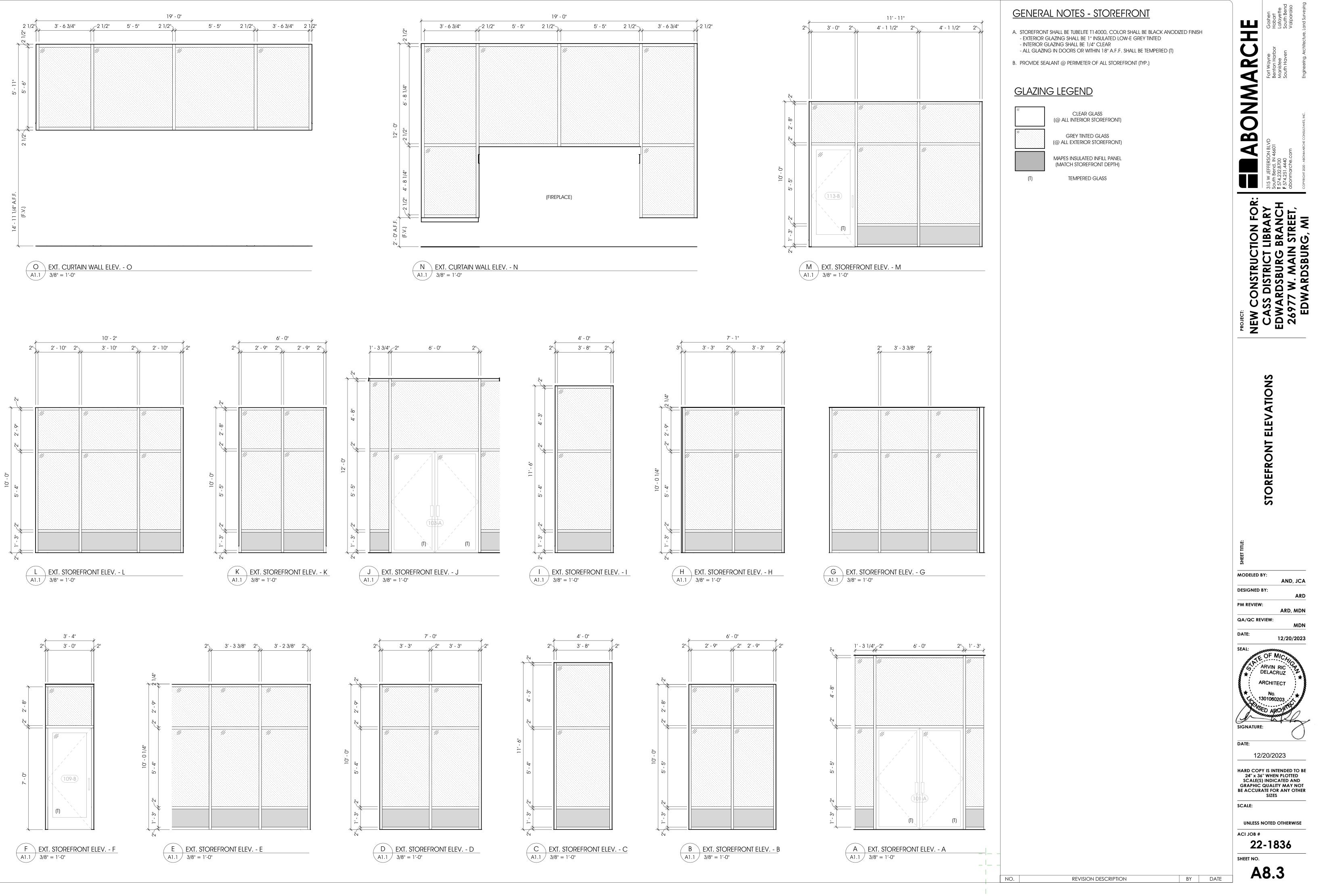
2"\

2"

left hand Left hand reverse Left hand sliding
LEFT HAND SLIDING
RIGHT HAND
<b>RIGHT HAND REVERSE</b>
RIGHT HAND SLIDING





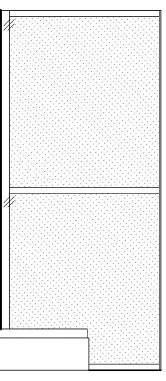




3′ - 1 13/16"

2′-91/8"411/16



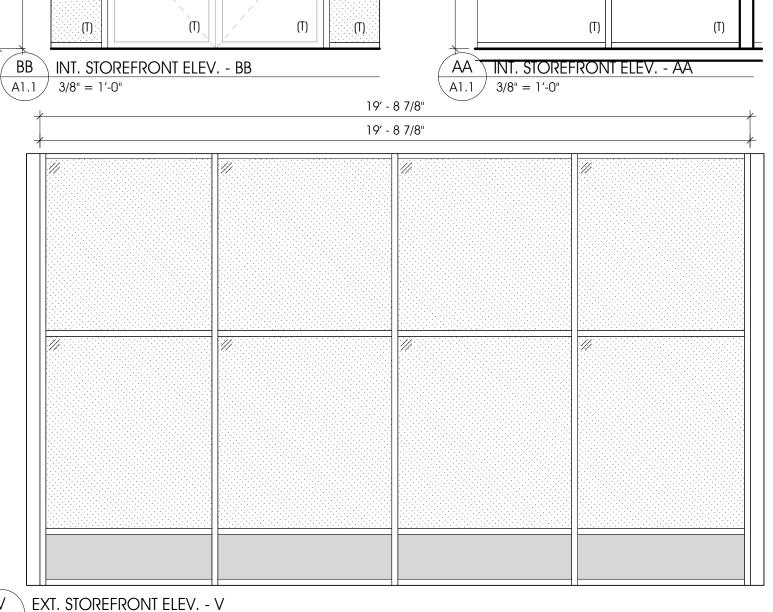


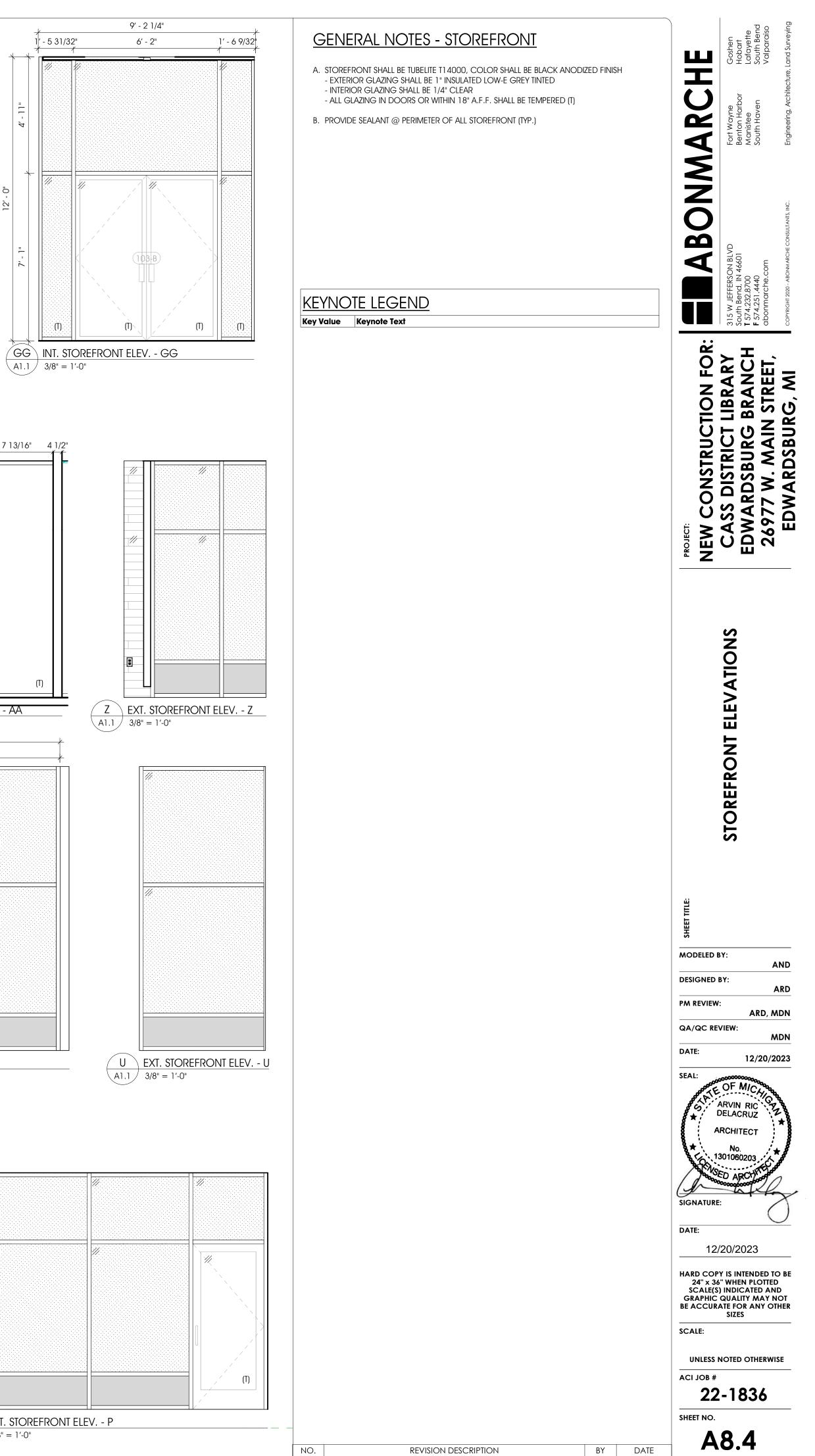
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# P EXT. STOREFRONT ELEV. - P A1.1 3/8" = 1'-0"

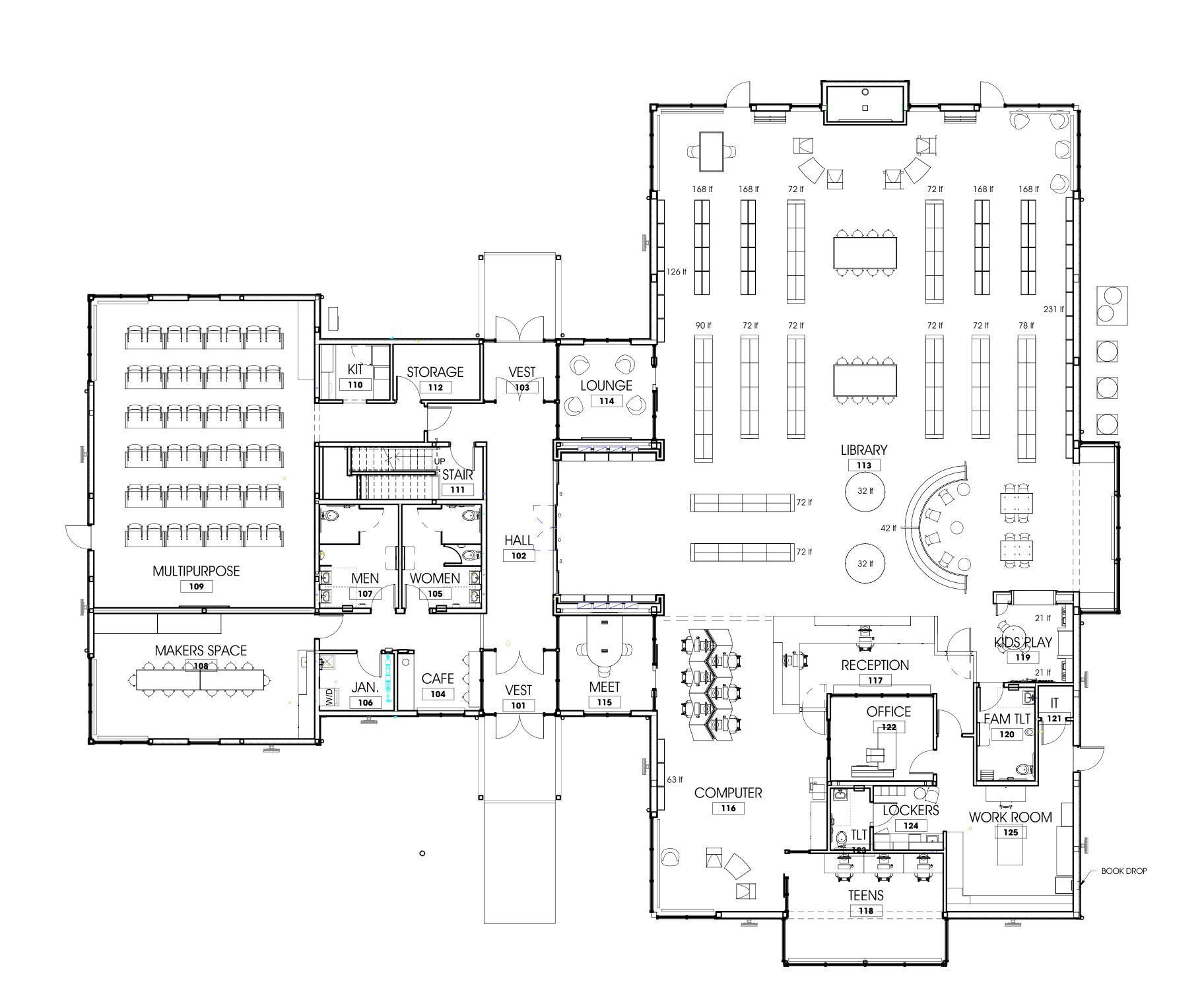
11.
11.

1' - 5 31/32"



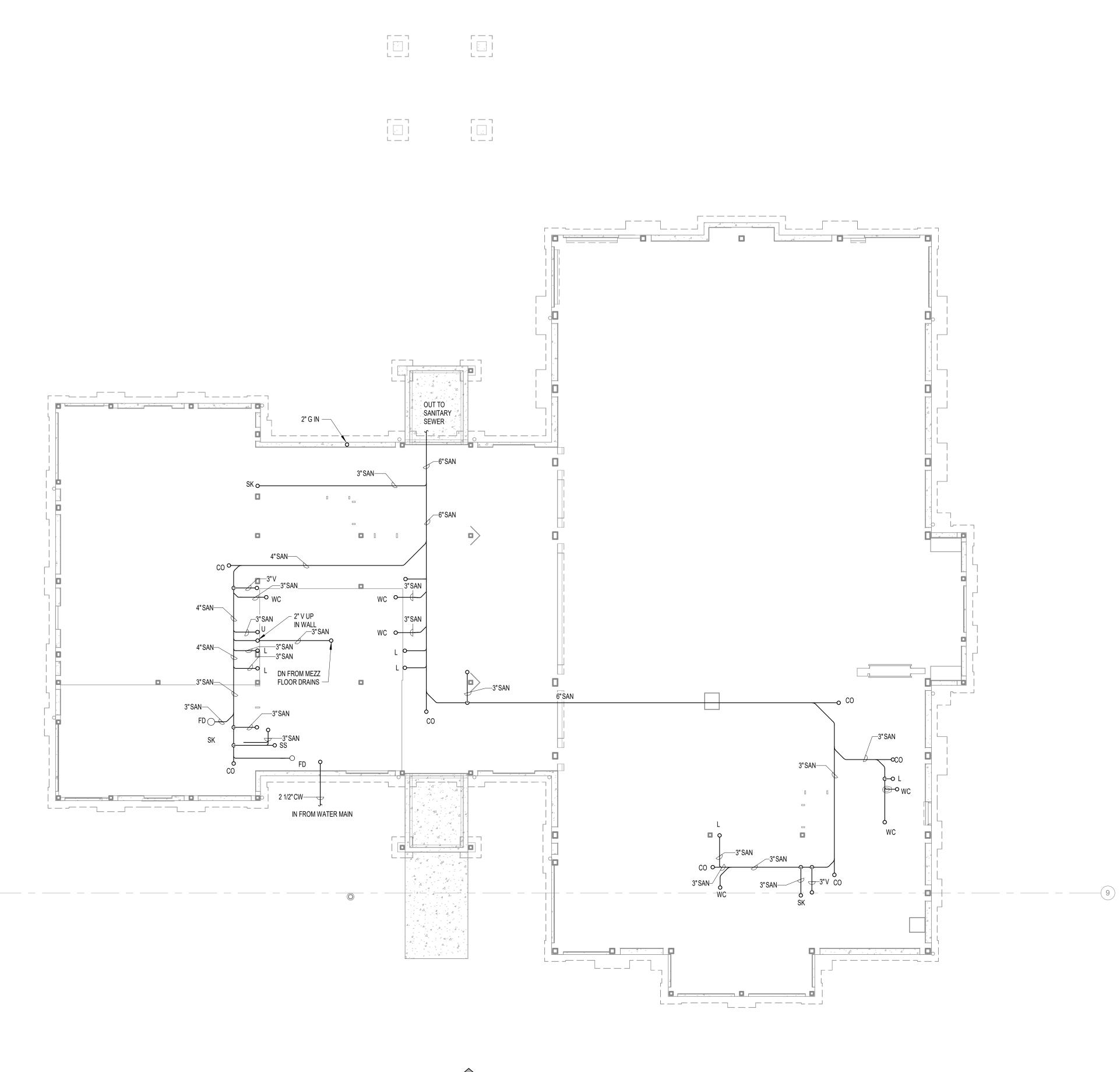






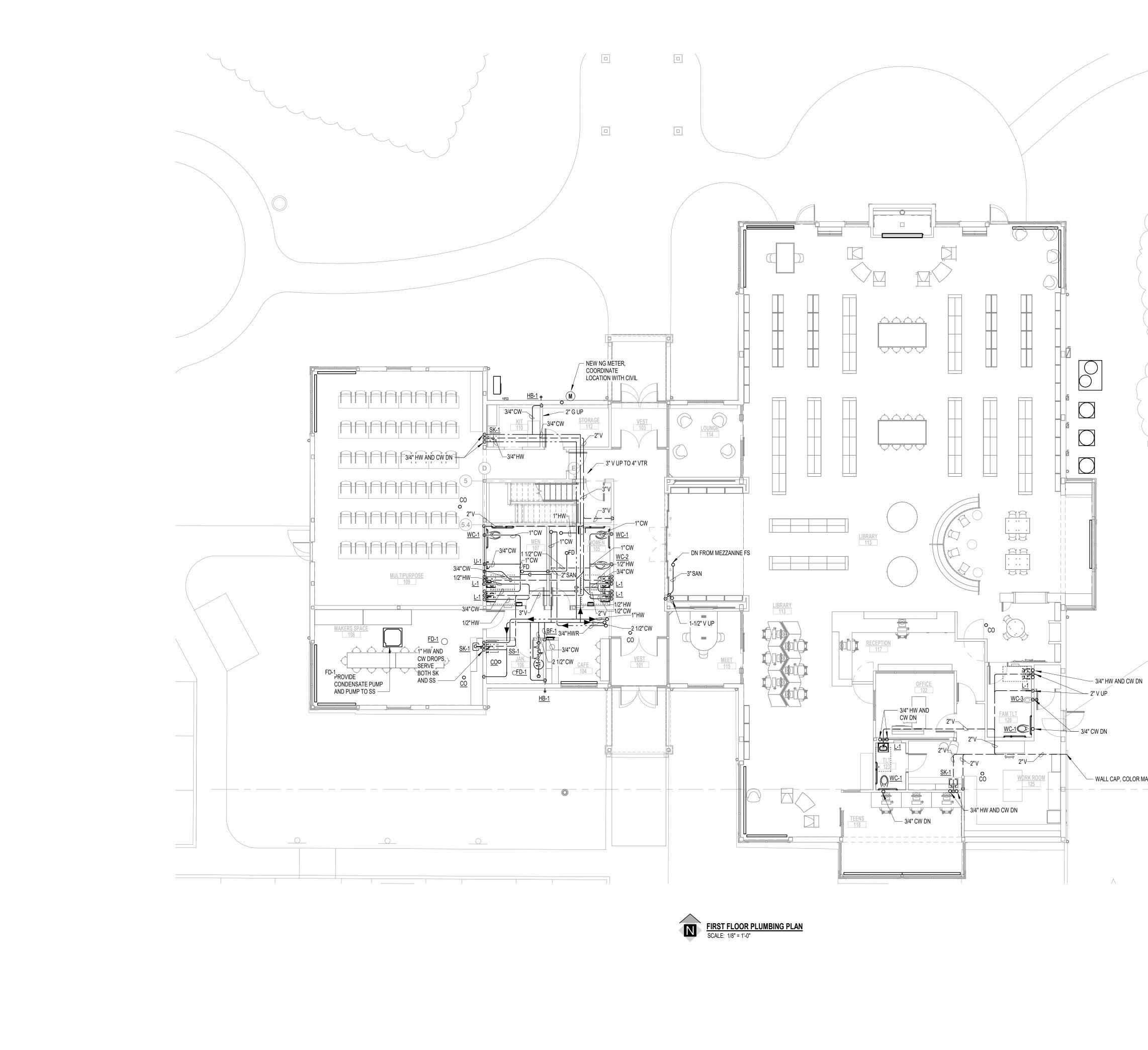
1 FURNITURE PLAN A9.1 1/8" = 1'-0"

CDL EC	lwardsburg Library -	Shelving	Goshen Hobart Lafayette South Bend Valparaiso
	Required		
Children Young Adult	147 shelves 45 shelves	441 LF 135 LF	<b>Fort Wayne</b> Benton Harbor Manistee South Haven
Adult	491 shelves	1,473 LF	Fort w Bento Manis South
	Chause		<b>S</b>
Children	shown *	442 LF	Z
Young Adult	45 shelves	135 LF	Ο
Adult	525 shelves	1,575 LF	<b>TET ABONMARCHE</b> <b>South Bendin Harbor</b> <b>T 574.222.8700</b> <b>F 574.251.4440</b> South Haven South Haven South Haven South Haven Valp
			PROJECT: NEW CONSTRUCTION FOR: CASS DISTRICT LIBRARY EDWARDSBURG BRANCH 26977 W. MAIN STREET,
			FURNITURE PLAN
			MODELED BY: MODELED BY: J DESIGNED BY: ARD, M QA/QC REVIEW: M DATE: 12/20/20 SEAL: SEAL: NO ARVIN RIC DELACRUZ ARCHITECT NO 1301060203 SIGNATURE:
			SIGNATURE: DATE: 12/20/2023 HARD COPY IS INTENDED TO 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NO BE ACCURATE FOR ANY OTH SIZES

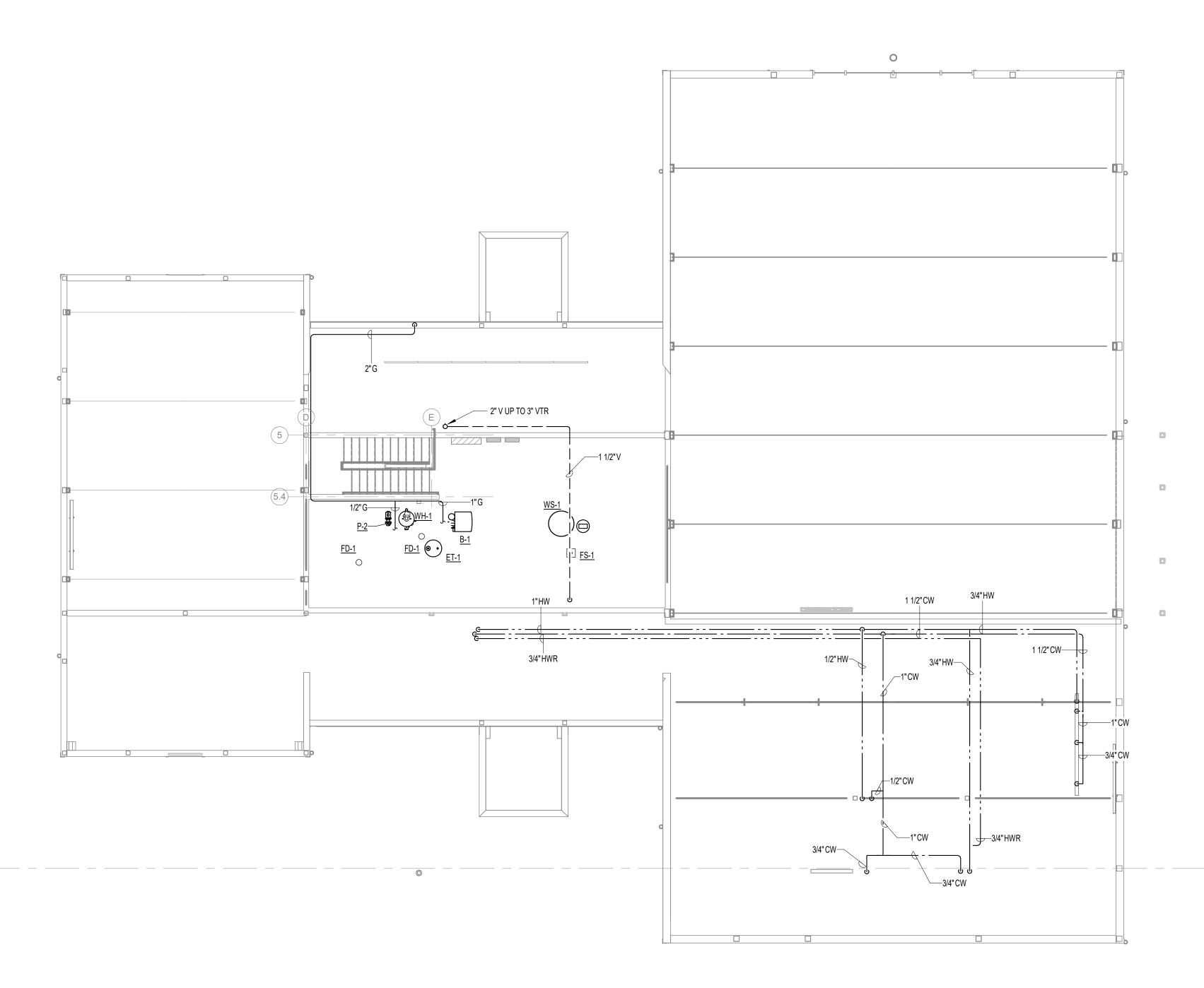


UNDERGROUND PLUMBING PLAN SCALE: 1/8" = 1'-0"

<b>ABONMARCHE BYCE</b>	Benton Harbor Goshen Grand Haven Hobart Grand Rapids Lafayette Kalamazoo/Portage South Bend Fort Wayne Valparaiso	c. Engineering, Architecture, Land Surveying
	306 S KALAMAZOO MALL KALAMAZOO, MI 49007 T 269.381.6170 F 269.381.6176 abonmarche.com	COPYRIGHT 2020 - ABONMARCHE CONSULTANTS, INC.
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	SIZES SCALE:
	UNLESS NOTED OTHERWISE
	ACI JOB # 22-1836
	SHEET NO.
NO. REVISION DESCRIPTION	BY DATE <b>P3.1</b>





 MEZZANINE PLUMBING PLAN

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

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PROJECT: NEW CONSTRUCTION FOR:	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH 26977 W. MAIN STREEET,	EDWARDSBURG, MI
	MEZZANINE PLUMBING PLAN	
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#### LEGEND:

— — V — — –	- PLUMBING SYSTEM VENT	E	CAP	φ	PRESSURE GAUGE
CW	- DOMESTIC COLD WATER	C	DROP	_Ч Р/Т	COMBINATION PRESSURE AND TEMPE
SCW	- SOFT COLD WATER	Q	RISE	_	TEST PLUG WITH EXTENDED NECK AN
TW	- TEPID WATER		REDUCER	φ	THERMOMETER
———— HW ————	DOMESTIC HOT WATER		UNION		TEMPERATURE WELL
HWR	DOMESTIC HOT WATER RETURN		THREE-WAY CONTROL VALVE		FLEXIBLE CONNECTION
SAN	- SANITARY SEWER	Ŕ	CONTROL VALVE		
ST	- STORM	X	GATE VALVE		THROUGH WALL SLEEVE
CA	- COMPRESSED AIR		GLOBE VALVE	$\mathbf{\Theta}$	POINT OF NEW CONNECTION TO EXIS
DCA	- DRY COMPRESSED AIR		BALL VALVE		VOLUME CONTROL DAMPER IN DUCT
G	- GAS	$\longrightarrow$	CHECK VALVE		FIRE DAMPER IN HORIZONTAL DUCT
HS	- HEATING WATER SUPPLY	ţ	CALIBRATED BALANCING VALVE		FIRE DAMPER IN VERTICAL DUCT
HR	- HEATING WATER RETURN		BUTTERFLY VALVE	Μ	MOTORIZED DAMPER
CS	- CHILLED WATER SUPPLY		PLUG VALVE, GAS COCK	T	THERMOSTAT
CR	- CHILLED WATER RETURN		PRESSURE REDUCING VALVE	$(\mathbf{S})$	SENSOR
RS	- REFRIGERANT SUCTION		RELIEF VALVE	$\boxtimes$	SUPPLY AIR (SECTION)
RL	- REFRIGERANT LIQUID		STRAINER WITH FULL SIZE BLOWDOWN VALVE WITH HOSE END AND CAP	$\square$	RETURN / EXHAUST AIR(SECTION)
	DIRECTION OF FLOW	~~>> 	MANUAL AIR VENT	$\longrightarrow$	AIR FLOW DIRECTION
	- DROP TEE IN-LINE		PUMP		DUCT TRANSITION
			r Ulvir		FLEXIBLE DUCT

								PLUMBING	FIXTURE SCHEDULE	
MARK	FIXTURE	CW	HW	SAN	V	FIXTURE MODEL	FIXTURE MANUFACTURER	TRIM MODEL	TRIM MANUFACTURER	DESCRIPTION
BF-1	BOTTLE FILLER	1/2"	-	1-1/4"	-	LBWD06	ELKAY	STAINLESS STEEL	ELKAY	EZH2 BOTTLE FILLING STATION BUILT IN FILTERED REFRIGERATED WATER DISPENSER REMOTE CHILLER, CHILLING CAPACITY OF 1.5 GPH OF 50 DEGREE F. DRINKING WATER, BASED ON 80 DEGREE F. INLET WATER AND 90 DEGREE F. AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE AUTOMATIC FILTER STATUS RESET, CHILLED WATER, FILTERED, GREEN TICKER, HANDS FREE, VISUAL FILTER MONITOR, LAMINAR FLOW, REAL DRAIN.
CO-LD	CLEANOUT	-	-	4"	-	ZN-1400	ZURN	-	-	LIGHT-DUTY LEVEL-TROL ADJUSTABLE FLOOR CLEANOUT - ALL BELOW RAISED FLOOR LOCATIONS
DN-1	DOWNSPOUT NOZZLE	-	-	-	-	ZANB199-SS	ZURN	STAINLESS STEEL BIRD SCREEN	ZURN	DOWNSPOUT NOZZLE, ALL NICKEL BRONZE BODY, DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE, PROVIDE REMOVABLE STAINLESS BIRD SCREEN
FD-1	FLOOR DRAIN	-	-	3", 4"	-	ZN415B	ZURN	SURE SEAL TRAP SEAL	RECTORSEAL	FLOOR DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYP B" POLISHED NICKEL BRONZE, 5" LIGHT DUTY STRAINER. PROVIDE SURE SEAL TRAP SEALS
FS-1	FLOOR SINK	-	-	4"	-	ZN1926-33	ZURN	SURE SEAL TRAP SEAL	RECTORSEAL	FLOOR SINK, SANI-FLOR RECEPTOR 16x16x12 DEEP CAST IRON BODY WITH SEEPAGE FLANGE AND SQUARE, HEAVY-DUTY GRATE WITH 9/16 SLOTTED OPENINGS, WHITE ACID RESISTING EPOXY COATED INTERIOR AND TOP, WHITE A.R.C. ANTI-SPLASH BOTTOM DOME STRAINER, PROVIDE SURE SEAL TRAP SEAL
HB-1	HOSE BIBB	3/4"	-	-	-	MODEL 68	WOODFORD	-	-	BACKFLOW PROTECTED AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH INTEGRAL, LOCKING STAINLESS STEEL HEAD COVER, STANDARD CHROME FINISH, ASSE 1053 LISTED HYDRANT, PATENTED HIGH FLOW DOUBLE CHECK BACK PREVENTER, ASSE 1052 APPROVED
L-1	LAVATORY - BARRIER FREE	1/2"	1/2"	1-3/4"	1-1/2"	037100-U	NAMEEKS	EFX 300 FAUCET	SLOAN	WALL MOUNTED WHITE CERAMIC BATHROOM SINK, INSTALL ACCORDING TO ADA REGULATIONS, FEATURES OVERFLOW AND INTEGRATED SQUARE CERAMIC DRAIN COVER. SINGLE FAUCET HOLE FOR SLOAN EFX-300 SENSOR FAUCET, PROVIDE ASSE 1070 MIXING VALVE
MS-1	MOP SINK	1/2"	1/2"	3"	1-1/2"	Z1996-24	ZURN	830-AA	FIAT	24x24 SERVICE SINK, PROVIDE STAINLESS STEEL WALL AND BUMPER GUARDS, MOP HANGER, 5' LONG 1/2" DIA. HEAVY DUTY HOSE AND STAINLESS HOSE BRACKET, 830-AA SERVICE FAUCET - CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 3/4" HOSE THREAD ON SPOUT
SK-1	BAR SINK - BARRIER FREE	1/2"	1/2"	2"	1-1/2"	ELUH1616DBG	ELKAY	4932.410, FINISH: 075 PVD STAINLESS STEEL	AMERICAN STANDARD	ELKAY LUSTERTONE CLASSIC STAINLESS STEEL 18-1/2"x18-1/2"x7-7/8" SINGLE BOWL UNDERMOUNT SINK KIT, 18 GAUGE 304 STAINLESS STEEL, WITH LUSTROUS SATIN FINISH, REAR CENTER DRAIN PLACEMENT, SIDES AND BOTTOM PADS, EDGEWATER PULL-DOWN BAR FAUCET, DECK-MOUNT, METAL BODY WITH TWO-PART ADA METAL LEVER HANDLE, CERAMIC DISC VALVE CARTRIDGE, BRAIDED FLEXIBLE STAINLESS STEEL SUPPLY HOSE, 1.5 GPM MAXIMUM FLOW RATE, FINISH: PVD STAINLESS STEEL
UR-1	URINAL	3/4"	-	2"	1-1/2"	6002.001	AMERICAN STANDARD	SOLIS 8186-0.5-SF	SLOAN VALVE	PINTBROOK 0.5 GPF HIGH EFFICIENCY WASHDOWN URINAL, EXPOSED, SOLAR POWERED, SENSOR ACTIVATED SLOAN SOLIS MODEL URINAL FLUSHOMETER, WITH SMART SENSE TECHNOLOGY, FINISH: BRUSHED STAINLESS, 3/4" TOP SPUD, 0.5 GPF, PROVIDE FLOOR MOUNTED FIXTURE CARRIER
WB-1	WALL BOX - CLOTHES WASHER	1/2"	-	-	-	SSWB3	GUY GRAY	-	-	CENTER DRAIN, 20 GAUGE 304 STAINLESS STEEL WASHING MACHINE OUTLET BOX WITH QUARTER TURN ARRESTER VALVES, 1/2" MIP/SWEAT CONNECTION, 32" SLIPNUT DRAIN, VALVES COMPLY WITH ASME A112.18.1
WC-1	WATER CLOSET	1"	-	4"	2"	2234.001	AMERICAN STANDARD	SOLIS 8111-1.28-SF	SLOAN VALVE	MADERA FLOWISE TOP SPUD FLOOR MOUNT ELONGATED VITREOUS CHINA TOILET, HIGH EFFICIENCY, OPERATES IN THE RANGE OF 1.1 GPF TO 1.6 GPF, PERMANENT EVERCLEAN SURFACE, FULLY GLAZED 2-1/8" TRAPWAY, 1-1/2" TOP SPUD, PROVIDE HEAVY DUTY TOILET SEAT, EXPOSED, SOLAR POWERED, SENSOR ACTIVATED SLOAN SOLIS MODEL WATER CLOSET FLUSHOMETER FOR FLOOR MOUNTED TOP SPUD BOWLS, FINISH: BRUSHED STAINLESS, 1.28 GPF
WC-2	WATER CLOSET - BARRIER FREE	1"	-	4"	2"	3043.001	AMERICAN STANDARD	SOLIS 8111-1.28-SF	SLOAN VALVE	MADERA FLOWISE TOP SPUD FLOOR MOUNT ELONGATED VITREOUS CHINA TOILET MOUNTED AT BARRIER FREE HEIGHT, HIGH EFFICIENCY, OPERATES IN THE RANGE OF 1.1 GPF TO 1.6 GPF, PERMANENT EVERCLEAN SURFACE, FULLY GLAZED 2-1/8" TRAPWAY, 1-1/2" TOP SPUD, PROVIDE HEAVY TOILET SEAT, EXPOSED, SOLAR POWERED, SENSOR ACTIVATED SLOAN SOLIS MODEL WATER CLOSET FLUSHOMETER FOR FLOOR MOUNTED TOP SPUD BOWLS, FINISH: BRUSHED STAINLESS, 1.28 GPF
WC-3	WATER CLOSET - KIDS	1"	-	4"	2"	2282.001	AMERICAN STANDARD	SOLIS 8111-1.28-SF	SLOAN VALVE	BABY DEVORO FLOWISE TOP SPUD FLOOR MOUNT VITREOUS CHINA TOILET MOUNTED AT 10-1/4" HEIGHT, HIGH EFFICIENCY, LOW CONSUMPTION OPERATING IN THE RANGE OF 1.28 GPF TO 1.6 GPF. 10" ROUGH IN, PERMANENT EVERCLEAN SURFACE, FULLY GLAZED 2-1/8" TRAPWAY, 1-1/2" TOP SPUD, PROVIDE HEAVY TOILET SEAT, EXPOSED, SOLAR POWERED, SENSOR ACTIVATED SLOAN SOLIS MODEL WATER CLOSED FLUSHOMETER FOR FLOOR MOUNTED TOP SPUD BOWLS, FINISH: BRUSGED STAINLESS, 1.28 GPF.

			EXHAUST FAI	NS			
MARK MODEL		ESP WATTS	BHP	RPM	V/P		REMARKS
EF-1 CSP-A390-VG		0.5 60	0.08	1,320	115/1	1, 2	
EF-2 CSP-A390-VG	200	0.5 40	0.05	1,243	115/1	1, 2	
ASED ON "GREENHECK." ) OPERATE CONTINUOUSLY.				10			
			SPLIT SYSTE	//2			
EVAPORATOR MARK LOCATION	MODEL MARK	CONDENSER LOCATION	MODEL	TONS	V/P		REMARKS
AC-5 MAKERS SPACE 108	FCQ18TAVJU CU-5	OUTDOOR	RZQ18TAVJUA	1.5	208/1 1		
							1/2" G WH-1 WATER HEATER 80 MBH

					EXHAUST FA	NS			
MARK	MODEL	CFM	ESP	WATTS	BHP	RPM	V	P	REMARKS
EF-1	CSP-A390-VG	275	0.5	60	0.08	1,320	11		
EF-2	CSP-A390-VG	200	0.5	40	0.05	1,243	11	5/1 1, 2	
BASED ON "GREENHE( TO OPERATE CONTINU									
					SPLIT SYSTE	MS			
	EVAPORATOR			CONDENSER					
MARK	LOCATION	MODEL	MARK	LOCATION	MODEL	TONS	V/P		REMARKS
AC-5	MAKERS SPACE 108	FCQ18TAVJU	CU-5	OUTDOOR	RZQ18TAVJUA	1.5	208 / 1		
ased on "Daikin."									GAS METER CONNECTED LOAD: 580 MBH BUILDING DISTRIBUTION PRESSURE 1/2 PSIG

#### <u>DIFFUSER / GRILLE LEGEND:</u>

	TAG:	DESCRIPTION:
GE RESSURE AND TEMPERATURE I EXTENDED NECK AND CAP	<u>S-1</u> (3) 10"Ø 400	<u>SUPPLY DIFFUSER TYPE</u> (# OF SIMILAR DIFFUSER IN ROOM, ONLY USE IF GREATER THAN 1) NECK SIZE OF SQUZRE CEILING DIFFUSER (TYPICALLY 24"x24" FACE FOR LAY-IN CEILINGS CFM
VELL	<u>S-1</u> (4) 40"x12" 1750 11'-0" AFF 45° DN	SUPPLY DIFFUSER / GRILLE TYPE (# OF SIMILAR DIFFUSER / GRILLE IN ROOM, ONLY USE IF GREATER THAN SIZE OF SUPPLY GRILLE CFM MOUNTING HEIGHT ABOVE FINISHED FLOOR (IF WALL MOUNTED) MOUNTING ANGLE WHEN NEEDED (WHEN MOUNTED ON SPIRAL DUCT)
ECTION		
SLEEVE	<u>R-1</u> (4) 14"x6" 400	RETURN GRILLE TYPE (# OF SIMILAR GRILLE IN ROOM, ONLY USE IF GREATER THAN 1) SIZE OF RETURN GRILLE CEM (NOTE: IE DI ENLIME BETURN, NO CEM NEEDED)
CONNECTION TO EXISTING	400 11'-0" AFF	CFM (NOTE: IF PLENUM RETURN, NO CFM NEEDED) MOUNTING HEIGHT ABOVE FINISHED FLOOR (IF WALL MOUNTED)
OL DAMPER IN DUCT		
HORIZONTAL DUCT	<u>E-1</u> (4) 14"x6"	EXHAUST GRILLE TYPE (# OF SIMILAR GRILLE IN ROOM, ONLY USE IF GREATER THAN 1) SIZE OF RETURN GRILLE
VERTICAL DUCT	400 11'-0" AFF	CFM MOUNTING HEIGHT ABOVE FINISHED FLOOR (IF WALL MOUNTED)
IPER		

#### ABBREVIATIONS:

FF	ABOVE FINISH FLOOR	LWT	LEAVING WATER TEMPERATURE	1.	ALL WORK SHALL BE COMPLETED IN ACCORDANCE	11.	LAYOUT PLUMBING WORK TO AVOID CONFLICTS WITH
TR	AIR TEMPERATURE RISE	MAT	MIXED AIR TEMPERATURE		WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL		OTHER BUILDING COMPONENTS. ESTABLISH
F	BELOW FLOOR	MBH	1000 BRITISH THERMAL UNITS PER HOUR		CODES, ORDINANCES, AND LAWS.		ELEVATION OF PUBLIC SEWER SYSTEM.
OD	BOTTOM OF DUCT	MIN	MINIMUM				
OS	BOTTOM OF STEEL	MFG	MANUFACTURER	2.	ARRANGE AND PAY FOR ALL PERMITS AND	12.	WHERE FIXTURES ARE MOUNTED TO WALLS SEAL ALL
TUH	BRITISH THERAMAL UNIT PER HOUR	NC	NORMALLY CLOSED		INSPECTIONS AS REQUIRED.		INTERSECTIONS WITH SILICONE CAULK.
V	BALANCE VALVE	NO	NORMALLY OPEN				
A	COMPRESSED AIR	OA	OUTSIDE AIR	3.	MAKE ARRANGEMENTS WITH AND PAY ALL CHARGES	13.	IT IS NOT THE INTENT OF THESE PLANS TO SHOW
EF	CEILING EXHAUST FAN	OAL	OUTISDE AIR LOUVER		REQUIRED BY UTILITY COMPANIES FOR, WATER, AND		EVERY DETAIL OF CONSTRUCTION. CONTRACTOR
FH	CUBIC FEET PER HOUR	OD	OVERFLOW DRAIN		SEWER SERVICES.		SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY
FM	CUBIC FEET PER MINUTE	OF	OVERFLOW				FOR A COMPLETE CODE COMPLYING MECHANICAL
Н	CABINET HEATER	OFCI	OWNER FURNISHED - CONTRACTOR	4.	ALL WORK SHALL BE PERFORMED TO FACILITATE		SYSTEM TO BE IN PROPER WOKRING ORDER.
0	CLEAN OUT	••••	INSTALLED		EXPEDITIOUS PROGRESS ON THE WHOLE PROJECT.		
ONC	CONCRETE	PD	PRESSURE DROP		COORDINATE WORK WITH OTHER TRADES TO	14.	PROVIDE APPROPRIATE FIRE STOPPING MATERIALS
W	DOMESTIC COLD WATER	PT	PRESSURE/TEMPERATURE PLUG		MINIMIZE AND RESOLVE POTENTIAL CONFLICTS.	14.	WHERE FIRE RATED ASSEMBLIES ARE PENETRATED.
R	DECIBELS, SOUND PRESSURE LEVEL	RD	ROOF DRAIN		MINIMIZE AND NEODEVET OTENTIAE OOM EIOTO.		WHENE THE RATED AGGEWIDELEG ANE TENETHATED.
N	DOWN	RH	RELATIVE HUMIDITY/REHEAT	5.	COMPLETED SYSTEM SHALL BE TESTED, BALANCED,	15.	MATERIALS EXPOSED WITHIN A PLENUM SHALL BE
Λ	EXHAUST AIR/ EACH	RPM	REVOLUTIONS PER MINUTE	5.	AND GUARANTEED.	15.	NONCOMUSTIBLE OR SHALL HAVE A FLAME SPREAD
A AL		BFP	BACKFLOW PREVENTER		AND GUARANTEED.		INDEX OF NOT MORE THAN 25 AND A SMOKE
	EXHAUST/RELIEF AIR LOUVER			0			
AT	ENTERING AIR TEMPERATURE	S	SINK	6.	PROVIDE A GAS SHUTOFF VALVE AND DIRT LEG AT		DEVELOPED INDEX OF NOT MORE THAN 50 WHEN
DB	ENTERING DRY BULB	SA	SUPPLY AIR		EACH PIECE OF GAS FIRED EQUIPMENT.		TESTED IN ACCORDANCE WITH ASTEM E84. EXISTING
+	EXHAUST FAN	SAN	SANITARY	_			AND NEW PVC PIPING WILL REQUIRE 1/2 INCH
SP	EXTERNAL STATIC PRESSURE	SCW	SPFT COLD WATER	7.	THE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE		MINERAL FIBER INSULATION WITH VAPOR RETARDER
WB	ENTERING WET BULB	SP	STATIC PRESSURE		CONTRACTOR SHALL PROVIDE FITTINGS, OFFSETS,		FACING THAT MEETS ASTM E84.
WT	ENTERING WATER TEMPERATURE	S.S.	STAINLESS STEEL		ETC, AS NECESSARY TO PROPERLY COMPLETE THE		
XIST	EXISITING	ST	STORM		INSTALLATION OF THE SYSTEMS.	16.	CONTROLS: MECHANICAL CONTRACTOR IS
D	FLOOR DRAIN	TEMP	TEMPERATURE				RESPONSIBLE TO PROVIDE ALL CONDUIT AND WIRING
S	FLOW SWITCH	TOD	TOP OF DUCT	8.	CONTRACTOR TO FURNISH AND INSTALL WATER		FOR LOW VOLTAGE AND LINE VOLTAGE
PM	GALLONS PER MINUTE	TOS	TOP OF STEEL		HAMMER ARRESTERS AT EACH VALVED FIXTURE.		REQUIREMENTS FOR PROPER FUNCTION AND
В	HOSE BIB	TSP	TOTAL STATIC PRESSURE				COMMUNICATION OF EQUIPMENT.
0	HUB OUTLET	V	VENT	9.	ALL PIPES PASSING THRU FINISHED WALLS,		
P	HORSEPOWER	VTR	VENT THROUGH ROOF		PARTITIONS AND FLOORS SHALL BE FITTED WITH		
W	DOMESTIC HOT WATER	WC	WATER CLOSET		ADJUSTABLE ESCUTCHEONS, AND APPROPRIATE		
WR	DOMESTIC HOT WATER RETURN	WH	WATER HEATER		FIRE TOPPING WHERE REQUIRED.		
AV.L	LAVATORY	WPD	WATER PRESSURE DROP				
AT	LEAVING AIR TEMPEATURE/LATENT HEAT	WTW	WALL TO WALL	10.	FURNISH AND INSTALL ALL VALVING FOR THE		
DB	LEAVING DRY BULB	** 1 **		10.	PROPER SECTIONALIZING AND OPERATION OF THE		
WB	LEAVING WET BULB				PIPING SYSTEM.		
VVD							

	ABBREVIATIO	<u>DNS:</u>				<u>GENERA</u>	L CONTRACTOR REQUIRE	<u>MENTS:</u>		Goshen Hobart Lafayette Valparaiso e, Land Surveying
TATER THAN 1)	ATRAIBFBIBODBCBOSBCBVB/CACCCFHCICFHCICFHCICFHCICFHCICONCCCCWDCDBDIDNDCEAEXEALEXEATEIESPEXEWBEIEWBEIFDFLFSFLGPMGHOHIHPHCHWRDCLAV,LLALATLELDBLE	BOVE FINISH FLOOR R TEMPERATURE RISE ELOW FLOOR DTTOM OF DUCT DTTOM OF STEEL RITISH THERAMAL UNIT PER HOU ALANCE VALVE DMPRESSED AIR EILING EXHAUST FAN JBIC FEET PER HOUR JBIC FEET PER MINUTE ABINET HEATER LEAN OUT DNCRETE DMESTIC COLD WATER ECIBELS, SOUND PRESSURE LEV DWN KHAUST AIR/ EACH KHAUST AIR/ EACH KHAUST AIR/ EACH KHAUST AIR/ EACH KHAUST AIR/ EACH KHAUST AIR/ EACH KHAUST FAN KTERING DRY BULB KHAUST FAN KTERNAL STATIC PRESSURE NTERING WET BULB NTERING WATER TEMPERATURE KISITING .OOR DRAIN .OW SWITCH ALLONS PER MINUTE DSE BIB JB OUTLET DRSEPOWER DMESTIC HOT WATER EAVING AIR TEMPEATURE/LATEN EAVING WET BULB	NO OA OAL OD OF OFCI PD PT RH RPM BFP S SA SAN SCW SP S.S. ST TEMP TOD TOS TSP V V VTR WC WH WPD	LEAVING WATER TEMPE MIXED AIR TEMPERATU 1000 BRITISH THERMAL MINIMUM MANUFACTURER NORMALLY CLOSED NORMALLY OPEN OUTSIDE AIR OUTISDE AIR LOUVER OVERFLOW DRAIN OVERFLOW OWNER FURNISHED - C INSTALLED PRESSURE DROP PRESSURE DROP PRESSURE DROP PRESSURE DROP PRESSURE/TEMPERATU ROOF DRAIN RELATIVE HUMIDITY/RE REVOLUTIONS PER MIN BACKFLOW PREVENTEF SINK SUPPLY AIR SANITARY SPFT COLD WATER STATIC PRESSURE STAINLESS STEEL STORM TEMPERATURE TOP OF DUCT TOP OF STEEL TOTAL STATIC PRESSUF VENT VENT THROUGH ROOF WATER CLOSET WATER PRESSURE DRO WALL TO WALL	RE UNITS PER HOUR ONTRACTOR JRE PLUG HEAT UTE RE	2. ARRA INSPE 3. MAKE REQU 3. MAKE REQU SEWE 4. ALL W EXPE COOF MINIM 5. COMF AND 0 6. PROV EACH 7. THE L CONT ETC INSTA 8. CONT HAMM 9. ALL P PART ADJU FIRE 10. FURN PROF	<ul> <li>(ORK SHALL BE COMPLETED IN ACALL APPLICABLE FEDERAL, STATE S, ORDINANCES, AND LAWS.</li> <li>INGE AND PAY FOR ALL PERMITS A SCTIONS AS REQUIRED.</li> <li>ARRANGEMENTS WITH AND PAY IRED BY UTILITY COMPANIES FOR SERVICES.</li> <li>(ORK SHALL BE PERFORMED TO F DITIOUS PROGRESS ON THE WHO RDINATE WORK WITH OTHER TRADIZE AND RESOLVE POTENTIAL CO</li> <li>PLETED SYSTEM SHALL BE TESTED GUARANTEED.</li> <li>IDE A GAS SHUTOFF VALVE AND D PIECE OF GAS FIRED EQUIPMENT</li> <li>ORAWINGS ARE DIAGRAMMATIC IN RACTOR SHALL PROVIDE FITTING AS NECESSARY TO PROPERLY C ILLATION OF THE SYSTEMS.</li> <li>RACTOR TO FURNISH AND INSTAL IER ARRESTERS AT EACH VALVED</li> <li>IPES PASSING THRU FINISHED WA TIONS AND FLOORS SHALL BE FIT STABLE ESCUTCHEONS, AND APP FOPPING WHERE REQUIRED.</li> <li>ISH AND INSTALL ALL VALVING FO ER SECTIONALIZING AND OPERAT G SYSTEM.</li> </ul>	E, AND LOCAL AND 12. AND 12. ALL CHARGES 13. CACILITATE ULE PROJECT. DES TO 14. NFLICTS. 14. NFLICTS. 14. DIRT LEG AT C. INATURE. THE S, OFFSETS, OMPLETE THE 16. LL WATER D FIXTURE. ALLS, TED WITH ROPRIATE R THE	OTHER BUILDING COMPONENTS. ESTABLISH ELEVATION OF PUBLIC SEWER SYSTEM. WHERE FIXTURES ARE MOUNTED TO WALLS SEAL ALL INTERSECTIONS WITH SILICONE CAULK. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAIL OF CONSTRUCTION. CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY FOR A COMPLETE CODE COMPLYING MECHANICAL SYSTEM TO BE IN PROPER WOKRING ORDER. PROVIDE APPROPRIATE FIRE STOPPING MATERIALS WHERE FIRE RATED ASSEMBLIES ARE PENETRATED. MATERIALS EXPOSED WITHIN A PLENUM SHALL BE NONCOMUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTEM E84. EXISTING AND NEW PVC PIPING WILL REQUIRE 1/2 INCH MINERAL FIBER INSULATION WITH VAPOR RETARDER FACING THAT MEETS ASTM E84.	Construction for ss bistrict library ss bistrict library farbsburg branch 77 w. main strefet, bwarbsburg, miConstruction about ab
					PUI	MPS				PROJECT NEW C CAS EDW ED
MARK P-1 P-2	E60-	MODEL         GP           1.25-1.25-5.25         21           PL-45         17	7 20	T) RPM 1576 3300	HP 0.5 1/6	BHP 0.237	IMPELLER DIA 5	1	REMARKS	
MARK B-1 1. BASED ON MARK WH-1	BELL & GOSSETT". MODI KBX0: 'LOCHINVAR". 'LOCHINVAR". 'BRADFORD WHITE"	500N     NATURAL GAS       IEL     SERVICE       5H803N     NATURAL GAS	INPUT (MBH)         OL           500         500           STORAGE         75	TPUT (MBH)         WATER (0           485         75           GPH REC         77	SPM) VENT ( 4"		1	REMARKS	REMARKS	NICAL SCHEDULES
						LING UNITS				HAN
MARK AHU-1 AHU-2 AHU-3	V3-DRE V3-BRE	MODEL         CFM           3-3-0-142D-11H         4800           3-3-0-141D-12M         1600           3-3-0-141D-12M         1600	MAX O.A. CFM         ESP           1000         0.75           360         0.75           360         0.75	COOLING MBH         HEAT           168.57         56.29           56.29         56.29	PUMP MBH         V/           154.2         480           80.1         460           80.1         460	0/3 1		REMARKS		MEC
AHU-4 1. BASED ON 2. PROVIDE 7	'AAON."	3-3-0-141D-12M 1600 LE THERMOSTAT WITH LOCKING	360 0.75 COVER.	56.29	80.1 460	0/3 1				
MARK CU-1 CU-2 CU-3 CU-4 1. BASED ON ¹	CFA-015-E CFA-005-A CFA-005-A CFA-005-A	3-A-3-DA00N AH A-A-3-DA00H AH A-A-3-DA00H AH		DNS         SEER (MI           2.5         12           4         14.2           4         14.2           4         14.2	N)	V/P         1           460/3         1           460/3         1           460/3         1           460/3         1           460/3         1		REMAR	KS	MODELED BY: Author DESIGNED BY: Designer
										PM REVIEW: Approver QA/QC REVIEW: Checker
KEY E-1 R-1 R-2 R-3 S-1 S-1 S-2 S-3	MODEL 50F 657 50F 300RL TMS S300FL 300FL	1/2x1/2x1/2 GRID CORE, S         24x8 ONE PIECE STEEL C         1/2x1/2x1/2 GRID CORE, L         STEEL DOUBLE DEFLECT         24x24 LOUVER FACE, SUI         DOUBLE DEFLECTION SII	AY-IN, ALUMINUM, BAKED ( FION RETURN GRILLE, 3/4" E RFACE MOUNTED, STEEL, E PRAL MOUNTED GRILLE, 3/4	D FINS SET AT 20 DEGREES N ENAMEL LADE SPACING, FRONT BLA AKED ON ENAMEL " BLADE SPACING WITH OUT	PTION DES PARALLEL TO L ER BLADE PARALLE	EL TO LONG DIMENSION	I LEL TO THE LONG DIMENSION	1 2 1 1 1 1 1	REMARKS	DATE: 12/20/2023 SEAL:
1. BASED ON									J	Glenn Glifden
MARK EBH-1 EBH-2 EBH-3 EBH-4	MODEL SBT SBT SBT SBT SBT	ENCLOSURE LENGTH           9'-6"           7'-10"           7'-10"           9'-6"	ELECTRIC BASEBOAR	CATALOG NUMBER           SB-8150           SB-7150           SB-7150           SB-7150           SB-8150	WATTS           1200           1050           1050           1200	BTU/HR         REM           4092         1, 2           3581         1, 2           3581         1, 2           4092         1, 2	IARKS WS-1	G EQUIPMENT LIST WATER SOFTENER MANUFACTURER: PEE MODEL: 450 TCCM-FD- CAPACITY: 450,000 GR PIPEING SIZE: 3" SERVICE FLOW RATE:	RLESS 3"	SIGNATURE: 12/20/2023 DATE:
EBH-5 EBH-6 EBH-7 EBH-8 EBH-9 EBH-10	SBT SBT SBT SBT SBT SBT SBT	8'-0" 9'-8" 9'-8" 6'-8" 11'-2" 6'-0"	7'-0" 8'-0" 8'-0" 5'-0" 10'-0" 5'-0"	SB-7150           SB-8150           SB-8150           SB-5150           SB-10150           SB-5150	1050           1200           1200           750           1500           750	3581         1, 2           4092         1, 2           4092         1, 2           2560         1, 2           5120         1, 2           2560         1, 2		FLOW DEMAND FLOW BACKWASH RATE: 25 ( MEDIA: 15 CU. FT. RES CONTROL CENTER: (2 METERS: 3" V/P: 120/1	RATE: 150 GPM STEADY SYSTĚM @ 15 PSI DROP GPM EACH TANK	HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZES SCALE:
EBH-11 EBH-12 EBH-13 EBH-14	SBT SBT SBT SBT	6'-4" 9'-6" 9'-6" 6'-4"	5'-0" 8'-0" 8'-0" 5'-0"	SB-5150 SB-8150 SB-8150 SB-5150	750 1200 1200 750	2560         1, 2           4092         1, 2           4092         1, 2           2560         1, 2	<u>ET-1</u>	EXPANSION TANK MANUFACTURER: BEL MODEL: PTA-20V TYPE: DIAPHRAGM MAXIMUM TEMPERATI		UNLESS NOTED OTHERWISE
1. BASED ON	"VULCAN".	TERS AS BOTTOM INTAKE, TOP I			·	, , <del>,</del>		OPERATING PRESSURE MAXIMUM PRESSURE TANK VOLUME: 8.0 GA ACCEPTANCE VOLUM ORIENTATION: VERTIC	E: 30 PSI 45 PSI L E: 5.3 GAL	ACI JOB # <b>22-1836</b> SHEET NO.

TER THAN 1)	AFF ATR BF BOD BOS BTUH BV CA CEF CFM CH CO CONC CW DN EAL EAL EAL ESP EWB EXIST FD S GPM HO HP HW R LAV,L LAT LDB LWB	ABOVE FINISH FLOOR AIR TEMPERATURE RISE BELOW FLOOR BOTTOM OF DUCT BOTTOM OF DUCT BOTTOM OF STEEL BRITISH THERAMAL UNIT BALANCE VALVE COMPRESSED AIR CEILING EXHAUST FAN CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CABINET HEATER CLEAN OUT CONCRETE DOMESTIC COLD WATEF DECIBELS, SOUND PRES DOWN EXHAUST AIR/ EACH EXHAUST AIR/ EACH EXHAUST AIR/ EACH EXHAUST AIR/ EACH EXHAUST FAN EXTERNAL STATIC PRES ENTERING AIR TEMPERA ENTERING WET BULB ENTERING WATER TEMF EXISITING FLOOR DRAIN FLOW SWITCH GALLONS PER MINUTE HOSE BIB HUB OUTLET HORSEPOWER DOMESTIC HOT WATER LAVATORY LEAVING AIR TEMPEATU LEAVING WET BULB	PER HOUR	LWT MAT MBH MIN MFG NC NO OA OAL OD OF OFCI PD PT RD RH RPM BFP S SA SAN SCW SP S.S. ST TEMP TOD TOS TSP V VTR WC WH WPD WTW	MINIMUM MANUFACTURER NORMALLY CLOSE NORMALLY OPEN OUTSIDE AIR OUTISDE AIR LOU OVERFLOW DRAIN OVERFLOW	RATURE RMAL UNITS PER HO ED VER ED - CONTRACTOR ERATURE PLUG TY/REHEAT R MINUTE ENTER R E ESSURE ROOF	2 3 4 5 6 7 7 8 8 8 9	<ul> <li>WITH ALL A CODES, OR</li> <li>ARRANGE A INSPECTION</li> <li>MAKE ARRA REQUIRED I SEWER SEF</li> <li>ALL WORK S EXPEDITION COORDINAT MINIMIZE AN GONTRACTI EACH PIECE</li> <li>COMPLETEI AND GUARA</li> <li>COMPLETEI AND GUARA</li> <li>PROVIDE A EACH PIECE</li> <li>THE DRAWI CONTRACTI ETC, AS NE INSTALLATIONS ADJUSTABL FIRE TOPPII</li> <li>FURNISH AN</li> </ul>	SHALL BE PERFORMED TO JS PROGRESS ON THE WH TE WORK WITH OTHER TRA ND RESOLVE POTENTIAL C D SYSTEM SHALL BE TEST ANTEED. GAS SHUTOFF VALVE AND E OF GAS FIRED EQUIPMEN INGS ARE DIAGRAMMATIC I OR SHALL PROVIDE FITTIN ECESSARY TO PROPERLY O ON OF THE SYSTEMS. OR TO FURNISH AND INSTA RRESTERS AT EACH VALVE PASSING THRU FINISHED W S AND FLOORS SHALL BE F LE ESCUTCHEONS, AND AP NG WHERE REQUIRED. ND INSTALL ALL VALVING F ECTIONALIZING AND OPERA	TE, AND LOCAL AND 12. AND 12. Y ALL CHARGES 13. PR, WATER, AND 14. FACILITATE IOLE PROJECT. ADES TO 14. ONFLICTS. ED, BALANCED, 15. D DIRT LEG AT NT. IN NATURE. THE GS, OFFSETS, COMPLETE THE 16. ALL WATER ED FIXTURE. IN HATURE. IN PROPRIATE OR THE	LAYOUT PLUMBING WORK TO AVOID CONFLICTS WITH OTHER BUILDING COMPONENTS. ESTABLISH ELEVATION OF PUBLIC SEWER SYSTEM. WHERE FIXTURES ARE MOUNTED TO WALLS SEAL ALL INTERSECTIONS WITH SILICONE CAULK. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAIL OF CONSTRUCTION. CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY FOR A COMPLETE CODE COMPLYING MECHANICAL SYSTEM TO BE IN PROPER WOKRING ORDER. PROVIDE APPROPRIATE FIRE STOPPING MATERIALS WHERE FIRE RATED ASSEMBLIES ARE PENETRATED. MATERIALS EXPOSED WITHIN A PLENUM SHALL BE NONCOMUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTEM E84. EXISTING AND NEW PVC PIPING WILL REQUIRE 1/2 INCH MINERAL FIBER INSULATION WITH VAPOR RETARDER FACING THAT MEETS ASTM E84. CONTROLS: MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL CONDUIT AND WIRING FOR LOW VOLTAGE AND LINE VOLTAGE REQUIREMENTS FOR PROPER FUNCTION AND COMMUNICATION OF EQUIPMENT.	Construction for ss bistrict library ss bistrict library farbsburg branch 77 w. main strefet bwardsburg, miConstruction bot about 49007 farbard bein 49007 farbard farbard farbard farbard bot about 49007Enter bab about 49007 farbard farbard farbard farbard farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbard farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbard farbardEnter bab about 49007 farbard farbard farbardEnter bab about 49007 farbard farbard farbardEnter bab about 49007 farbard farbardEnter bab about 49007 farbard farbardEnter bab about 49007 farbard farbardEnter bab about 49007 farbardEnter bab about 49007 farbardEnter bab about 49007 farbardEnter bab about 49007 farbardEnter bab about 49007 farbardEnter bab about 49007 farbardEnter bab about 49007 farbard
MARK		MODEL	GPM	HEAD (F	Г) <b>Г</b>	PM	PUMPS	BHP	IMPELLER DIA		REMARKS	PROJECT NEW EDW EI
P-1 P-2		E60-1.25-1.25-5.25 PL-45	27 17.5	20 20	1	576 300	0.5	0.237	5	1		
1. BASED ON '	'BELL & GOSSET	TT".					BOILERS					
MARK B-1				. ,		<b>TER (GPM)</b>	VENT ("Ø)	<b>V/P</b> 120/1			REMARKS	<b>LES</b>
1. BASED ON '				600	485	75	4	120/1	1			CHEDULES
						W	ATER HEATER					
MARK WH-1				RAGE	<b>GPH REC</b> 77	<b>INPUT BTU</b> 80,000	1			REMARKS		L S
1. BASED ON '	'BRADFORD WH	IITE".										
						AIR H	ANDLING UNI	TS				MECHANIC
MARK AHU-1	V3	MODEL -DRB-3-0-142D-11H	CFM         MAX O.A           4800         1000		COOLING MBH 168.57	<b>HEAT PUMP MBH</b> 154.2	<b>V/P</b> 480/3 1			REMARKS		CH I
AHU-2 AHU-3	V3	-BRB-3-0-141D-12M -BRB-3-0-141D-12M	1600         360           1600         360           1600         360	0.75	56.29 56.29	80.1 80.1	460/3 1 460/3 1					WE
AHU-4 1. BASED ON '	'AAON."	-BRB-3-0-141D-12M	1600 360	0.75	56.29	80.1	460/3 1					
2. PROVIDE 7	DAT PROGRAMI	WABLE THERMOSTAT WITH	LUCKING COVER.									ш
							DENSING UNIT	S				SHEET TITLE:
MARK CU-1 CU-2		MODEL 015-B-A-3-DA00N 005-A-A-3-DA00H	CONNECT TO AHU-1 AHU-2	12	2.5	ER (MIN) 12 14.2	V/P 460/3 460/3	1		REMAR	KS	MODELED BY:
CU-3 CU-4	CFA-0	005-A-A-3-DA00H 005-A-A-3-DA00H	AHU-3 AHU-4		4	14.2 14.2	460/3 460/3	1				Author DESIGNED BY:
1. BASED ON '	'AAON."											PM REVIEW: Approver
							ETS AND OUTL	ETC				QA/QC REVIEW: Checker
KEY		DDEL				SCRIPTION		LEIO			REMARKS	DATE: 12/20/2023
E-1 R-1 R-2	6	657 24x8 ONE PIEC		TION, 1/3" SPACED	UM, BAKED ON ENAM FINS SET AT 20 DEG					1 2 1		SEAL:
R-2 R-3 S-1	30	ORL STEEL DOUBLE		RN GRILLE, 3/4" BL	ADE SPACING, FRON	T BLADES PARALLE	L TO LONG DIME	ENSION		1 1 1		GLENN FRANCIS
S-2 S-3				,	BLADE SPACING WIT JRFACE MOUNTED, 3/				) THE LONG DIMENSION	1 1		GLIDDEN ENGINEER No. 6201060010
1. BASED ON ' 2. BASED ON '	'TITUS". 'HART AND COC	DLEY".										POFESSIONAL
			ELECTR	RIC BASEBOARD	HEATERS				PLUMBIN	NG EQUIPMENT LIST		SIGNATURE:
MARK EBH-1	MODE SBT	9'-6"		8'-0"	CATALOG NUMB SB-8150	1200	<b>BTU/HR</b> 4092	<b>REMARKS</b>	<u>WS-1</u>	WATER SOFTENER MANUFACTURER: PEE MODEL: 450 TCCM-FD-		12/20/2023 DATE:
EBH-2 EBH-3	SBT SBT	7'-10"		7'-0" 7'-0"	SB-7150 SB-7150	1050 1050 1200	3581 3581	1,2 1,2		CAPACITY: 450,000 GR PIPEING SIZE: 3"	AINS (EACH)	
EBH-4 EBH-5 EBH-6	SBT SBT SBT	8'-0"		8'-0" 7'-0" 8'-0"	SB-8150 SB-7150 SB-8150	1200 1050 1200	4092 3581 4092	1, 2 1, 2 1, 2	_	FLOW DEMAND FLOW BACKWASH RATE: 25 (		HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED
EBH-7 EBH-8	SBT SBT SBT	9'-8"		8'-0" 5'-0"	SB-0150 SB-8150 SB-5150	1200 1200 750	4092 4092 2560	1,2 1,2 1,2		MEDIA: 15 CU. FT. RES		SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER
EBH-9 EBH-10	SBT SBT	6'-0"		10'-0" 5'-0"	SB-10150 SB-5150	1500 750	5120 2560	1, 2 1, 2		V/P: 120/1		SIZES SCALE:
EBH-11 EBH-12		9'-6"		5'-0" 8'-0"	SB-5150 SB-8150	750	2560 4092	1,2 1,2	<u>ET-1</u>	EXPANSION TANK MANUFACTURER: BEL MODEL: PTA-20V	L AND GOSSETT	UNLESS NOTED OTHERWISE
EBH-13 EBH-14	SBT SBT			8'-0" 5'-0"	SB-8150 SB-5150	1200 750	4092 2560	1,2 1,2		TYPE: DIAPHRAGM MAXIMUM TEMPERATU OPERATING PRESSUR		ACI JOB #
1. BASED ON ' 2. PROVIDE AI		HEATERS AS BOTTOM INTA	KE, TOP DISCHARG	E WITH CAST PED	DESTAL.					MAXIMUM PRESSURE: TANK VOLUME: 8.0 GA ACCEPTANCE VOLUMI	45 PSI L	22-1836
												SHEET NO.

ATER THAN 1)	ATRAIR 1BFBELCBODBOTBOSBOTBTUHBRITBVBALACACOMCEFCEILCFHCUBICHCABICOCLEACONCCONCWDOMDBDECIDNDOWEAEXHAEALEXHAEALEXHAEALEXHAEATENTEEVBENTEEVBENTEEWBENTEEWBENTEEWBENTEEWBENTEEVTENTEEVBENTEEVBENTEEWBENTEENTEXISTFDFLOOFSFLOVGPMGALLHDHUBHPHORHWDOMLAV,LLAVALATLEAV	AUST AIR/ EACH AUST/RELIEF AIR ERING AIR TEMPE ERING DRY BULB AUST FAN ERNAL STATIC PR ERING WET BULB ERING WATER TE ITING DR DRAIN V SWITCH .ONS PER MINUTI	ISE INIT PER HOUI N IR UTE FER RESSURE LEVI LOUVER ERATURE RESSURE MPERATURE E E E E E E R RETURN	NO OA OD OF PD PT EL RD RH RPI BFF S SA SA SA SA SC SP S.S ST TEI TO TO TO TO TO V V V VTI WC WF	NT SH NG G CO NW S. MP DS P RC HD P	MIXED AIR TEM 1000 BRITISH TI MINIMUM MANUFACTURE NORMALLY CLC NORMALLY OPI OUTSIDE AIR OUTISIDE AIR LC OVERFLOW DR OVERFLOW OWNER FURNIS INSTALLED PRESSURE DR(	HERMAL UNITS PE	ir Hour	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> </ol>	WITH ALL APPL CODES, ORDIN ARRANGE AND INSPECTIONS A MAKE ARRANG REQUIRED BY 0 SEWER SERVIC ALL WORK SHA EXPEDITIOUS F COORDINATE V MINIMIZE AND F COMPLETED SY AND GUARANT PROVIDE A GAS EACH PIECE OF THE DRAWINGS CONTRACTOR ETC, AS NECE INSTALLATION CONTRACTOR HAMMER ARRE ALL PIPES PASS PARTITIONS AN ADJUSTABLE E FIRE TOPPING	SEMENTS WITH AND PAY UTILITY COMPANIES FO CES. ALL BE PERFORMED TO PROGRESS ON THE WH WORK WITH OTHER TRA RESOLVE POTENTIAL C YSTEM SHALL BE TESTE EED. S SHUTOFF VALVE AND F GAS FIRED EQUIPMEN S ARE DIAGRAMMATIC I SHALL PROVIDE FITTIN ESSARY TO PROPERLY ( OF THE SYSTEMS. TO FURNISH AND INSTA ESTERS AT EACH VALVE SING THRU FINISHED W VD FLOORS SHALL BE F ESCUTCHEONS, AND AP WHERE REQUIRED. INSTALL ALL VALVING FI	TE, AND LOCAL FAND YALL CHARGES PR, WATER, AND FACILITATE OLE PROJECT. ADES TO ONFLICTS. ED, BALANCED, DIRT LEG AT NT. IN NATURE. THE GS, OFFSETS, COMPLETE THE ALL WATER ED FIXTURE. YALLS, ITTED WITH PROPRIATE OR THE	<ol> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> </ol>	LAYOUT PLUMBING WORK TO AVOID CONFLICTS WITH OTHER BUILDING COMPONENTS. ESTABLISH ELEVATION OF PUBLIC SEWER SYSTEM. WHERE FIXTURES ARE MOUNTED TO WALLS SEAL ALL INTERSECTIONS WITH SILICONE CAULK. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAIL OF CONSTRUCTION. CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY FOR A COMPLETE CODE COMPLYING MECHANICAL SYSTEM TO BE IN PROPER WOKRING ORDER. PROVIDE APPROPRIATE FIRE STOPPING MATERIALS WHERE FIRE RATED ASSEMBLIES ARE PENETRATED. MATERIALS EXPOSED WITHIN A PLENUM SHALL BE NONCOMUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTEM E84. EXISTING AND NEW PVC PIPING WILL REQUIRE 1/2 INCH MINERAL FIBER INSULATION WITH VAPOR RETARDER FACING THAT MEETS ASTM E84. CONTROLS: MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL CONDUIT AND WIRING FOR LOW VOLTAGE AND LINE VOLTAGE REQUIREMENTS FOR PROPER FUNCTION AND COMMUNICATION OF EQUIPMENT.		SS DISTRICT LIBRARY ARDSBURG BRANCH306 S KALAMAZOO MALL RALAMAZOO, MI 49007Benton Harbor Grand Haven Grand Rapids T 269.381.6176/ARDSBURG BRANCH 77 W. MAIN STREET, DWARDSBURG, MI306 S KALAMAZOO, MI 49007 T 269.381.6170Benton Harbor Grand Rapids Farad Rapids77 W. MAIN STREET DWARDSBURG, MIStatamazoo Multage Farad Rapids Farad Rapids
								PUMPS							PROJECT:	CAS EDW 2697 ED
MARK P-1 P-2	E60-1.2	<b>DDEL</b> 5-1.25-5.25 L-45	GPN 27 17.5		<b>HEAD (FT</b> 20 20	)	RPM           1576           3300	HP 0.5 1/6		BHP 0.237 -	IMPELLER DIA 5 -	1 1 1		REMARKS		
1. BASED ON	"BELL & GOSSETT".															
MARK	MODEL	# S	ERVICE	INPUT (MBH)	OUT	PUT (MBH)	VATER (GPM)	BOILERS	S	V/P			RE	MARKS		ES
B-1 1. BASED ON	KBX0500	N NAT	URAL GAS	500		485	75	4"		120/1 1						CHEDUL
								WATER HEA	TER							H
MARK WH-1	MODEL LG2PDV75H		ERVICE URAL GAS	STORAGE		<b>GPH REC</b> 77	<b>INPUT</b> 80,0	BTU				REMARKS				L SC
1. BASED ON	"BRADFORD WHITE".				1											ICA
								AIR HANDLING	UNITS							HANIC
MARK AHU-1		0 <b>DEL</b> 0-142D-11H	<b>CFM</b> 4800	MAX O.A. CFM 1000	<b>ESP</b> 0.75	COOLING MBH 168.57	<b>HEAT PUMP M</b> 154.2	BH V/P 480/3	1			REMARI	KS			CH
AHU-2 AHU-3	V3-BRB-3-	0-141D-12M 0-141D-12M	1600 1600	360 360	0.75 0.75	56.29 56.29	80.1 80.1	460/3 460/3	1							MEC
1. BASED ON	"AAON."	0-141D-12M	1600	360	0.75	56.29	80.1	460/3	1							
2. Provide 7	Z DAY PROGRAMMABLE	THERMOSTAT W	ITH LOCKING	COVER.											ü	
		- 1													HEET TITL	
MARK CU-1 CU-2	CFA-015-B-A CFA-005-A-A	-3-DA00N	CONNE AHU AHU	J-1	12. 4		SEER (MIN) 12 14.2	V/P 460/3 460/3	3	1		RE	MARKS		ー MODELED	BY:
CU-3 CU-4	CFA-005-A-A CFA-005-A-A	-3-DA00H	AHU	J-3	4		14.2 14.2	460/3	3	1					DESIGNED	
1. BASED ON	"AAON."								_				_		PM REVIEW	Designer V: Approver
							٨١٣	INLETS AND C	חוודו בי	rs				]	QA/QC R	
KEY	MODEL				D. ALL THE		DESCRIPTION		JUILEI	<b>.</b>				REMARKS	DATE:	12/20/2023
E-1 R-1 R-2	50F 657 50F	24x8 ONE PI	IECE STEEL CO	JRFACE MOUNTED ONSTRUCTION, 1/3 AY-IN, ALUMINUM,	3" SPACED	FINS SET AT 20 DE						2			SEAL:	THE OF MICHIGUN
R-3 S-1	300RL TMS	STEEL DOU 24x24 LOUV	BLE DEFLECTI ER FACE, SUR	ION RETURN GRIL RFACE MOUNTED,	LE, 3/4" BL/ STEEL, BA	ADE SPACING, FR KED ON ENAMEL	ONT BLADES PARA					1			*	GLENN FRANCIS GLIDDEN
S-2 S-3	S300FL 300FL						VITH OUTER BLAD , 3/4" BLADE SPAC				E LONG DIMENSION	1			LICENT	
1. BASED ON 2. BASED ON	"TITUS". "HART AND COOLEY".										_				G	en Clister
				ELECTRIC BAS	EBOARD	HEATERS						IG EQUIPMENT L			SIGNATUR	E:
MARK EBH-1	MODEL SBT	ENCLOSURE L 9'-6"	ENGTH	CONVECTOR LE 8'-0"	NGTH	CATALOG NUM SB-8150	12	00 40	092	<b>REMARKS</b> 1, 2	<u>WS-1</u>	WATER SOFTENE MANUFACTURER: MODEL: 450 TCCM	PEERL	ESS	12/20/2 DATE:	023
EBH-2 EBH-3 EBH-4	SBT	7'-10" 7'-10" 9'-6"		7'-0" 7'-0" 8'-0"		SB-7150 SB-7150 SB-8150		50 35	581 581 092	1,2 1,2 1,2	-	CAPACITY: 450,000 PIPEING SIZE: 3"	0 GRAIN	IS (EACH) GPM STEADY EACH TANK @ 15 PSI DROP	<u> </u>	
EBH-4 EBH-5 EBH-6	SBT	9-0 8'-0" 9'-8"		7'-0" 8'-0"		SB-0150 SB-7150 SB-8150	10	50 35	581 592 592	1, 2 1, 2 1, 2	-	FLOW DEMAND FL BACKWASH RATE	LOW RA :: 25 GPI	.TE: 150 GPM STEADY SYSTEM @ 15 PSI DROP M EACH TANK	24" x 3	PY IS INTENDED TO BE 66" WHEN PLOTTED
EBH-7 EBH-8	SBT	9'-8" 6'-8"		8'-0" 5'-0"	_	SB-8150 SB-5150	12 75	0 25	092 560	1, 2 1, 2	-	METERS: 3"		EACH TANK LACK WS3" VALVES EACH WITH 3" NHWB VALVES	SCALE( GRAPHIC	S) INDICATED AND C QUALITY MAY NOT RATE FOR ANY OTHER
EBH-9 EBH-10 EBH-11	) SBT	<u>11'-2"</u> <u>6'-0"</u> <u>6'-4"</u>		10'-0" 5'-0" 5'-0"		SB-10150 SB-5150 SB-5150	75	0 25	120 560 560	1, 2 1, 2 1, 2	<u>ET-1</u>	V/P: 120/1 EXPANSION TANK	(		SCALE:	SIZES
EBH-11 EBH-12 EBH-13	SBT	<u> </u>		8'-0" 8'-0"		SB-5150 SB-8150 SB-8150	12	00 40		1, 2 1, 2 1, 2	1	MANUFACTURER: MODEL: PTA-20V TYPE: DIAPHRAGN	BELL A	ND GOSSETT	UNLESS	NOTED OTHERWISE
EBH-14	SBT	6'-4"		5'-0"		SB-5150				1,2		MAXIMUM TEMPEI OPERATING PRES	RATURE SSURE: :	30 PSI	ACI JOB #	
1. BASED ON 2. PROVIDE A	"VULCAN". ALL BASEBOARD HEATE	RS AS BOTTOM IN	NTAKE, TOP D	ISCHARGE WITH	CAST PED	ESTAL.						MAXIMUM PRESSI TANK VOLUME: 8.0 ACCEPTANCE VO ORIENTATION: VE	0 GAL LUME: 5		SHEET NO.	2-1836

ATER THAN 1)	ATR BF BOD BOS BTUH BV CA CEF CFH CFM CH CO CONC CW DB DN EA EAL EAT EDB EF ESP EWB EWT EXIST FD FS GPM HB HO HP HW R LAV,L LAT LDB	ABOVE FINISH FLOOR AIR TEMPERATURE RISE BELOW FLOOR BOTTOM OF DUCT BOTTOM OF STEEL BRITISH THERAMAL UNIT PER HO BALANCE VALVE COMPRESSED AIR CEILING EXHAUST FAN CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CABINET HEATER CLEAN OUT CONCRETE DOMESTIC COLD WATER DECIBELS, SOUND PRESSURE LE DOWN EXHAUST AIR/ EACH EXHAUST AIR/ EACH EXHAUST /RELIEF AIR LOUVER ENTERING AIR TEMPERATURE ENTERING DRY BULB EXHAUST FAN EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATUF EXISITING FLOOR DRAIN FLOW SWITCH GALLONS PER MINUTE HOSE BIB HUB OUTLET HORSEPOWER DOMESTIC HOT WATER RETURN LAVATORY LEAVING AIR TEMPEATURE/LATE LEAVING WET BULB	DUR NG OUR NG O/ O/ OI EVEL RI EVEL RI RI BF S S/ S/ S/ S/ S/ S/ S/ S/ S/ S/ S/ S/ S	AT MIXEE BH 1000 E IN MINIM FG MANU C NORW O NORW A OUTS AL OUTIS D OVER F OVER FCI OWNE INSTA D PRESS T PRESS D ROOF H RELAT PM REVO FP BACKI SINK A SUPPI AN SANIT CW SPFT S. STAIN F STOR D TOP C DS T	FACTURER ALLY CLOSED ALLY OPEN DE AIR DE AIR LOUVER FLOW DRAIN FLOW R FURNISHED - CONTRAU LLED SURE DROP SURE/TEMPERATURE PLU DRAIN TVE HUMIDITY/REHEAT LUTIONS PER MINUTE FLOW PREVENTER COLD WATER COLD WATER COLD WATER C PRESSURE LESS STEEL M ERATURE F DUCT F STEEL STATIC PRESSURE	PER HOUR	2. ARRAN INSPEC 3. MAKE / REQUID SEWEF 4. ALL WC EXPED COORE MINIMIZ 5. COMPL AND GI 6. PROVIE EACH F 7. THE DF CONTR ETC, / INSTAL 8. CONTR ETC, / INSTAL 8. CONTR HAMME 9. ALL PIF PARTIT ADJUS FIRE TO 10. FURNIS PROPE	<ul> <li>PRK SHALL BE COMPLETED IN LL APPLICABLE FEDERAL, ST, ORDINANCES, AND LAWS.</li> <li>GE AND PAY FOR ALL PERMIT TIONS AS REQUIRED.</li> <li>RRANGEMENTS WITH AND P RED BY UTILITY COMPANIES F SERVICES.</li> <li>PRK SHALL BE PERFORMED T TIOUS PROGRESS ON THE W INATE WORK WITH OTHER TI 2 AND RESOLVE POTENTIAL</li> <li>ETED SYSTEM SHALL BE TES JARANTEED.</li> <li>DE A GAS SHUTOFF VALVE AN IECE OF GAS FIRED EQUIPMI AWINGS ARE DIAGRAMMATIC ACTOR SHALL PROVIDE FITTI S NECESSARY TO PROPERLY LATION OF THE SYSTEMS.</li> <li>ACTOR TO FURNISH AND INS IR ARRESTERS AT EACH VALY</li> <li>ES PASSING THRU FINISHED IONS AND FLOORS SHALL BE TABLE ESCUTCHEONS, AND A DPPING WHERE REQUIRED.</li> <li>H AND INSTALL ALL VALVING R SECTIONALIZING AND OPEN SYSTEM.</li> </ul>	ATE, AND LOCAL TS AND PAY ALL CHARGES FOR, WATER, AND TO FACILITATE WHOLE PROJECT. RADES TO CONFLICTS. STED, BALANCED, ND DIRT LEG AT ENT. C IN NATURE. THE INGS, OFFSETS, Y COMPLETE THE STALL WATER VED FIXTURE. WALLS, E FITTED WITH APPROPRIATE S FOR THE	<ol> <li>LAYOUT PLUMBING WORK TO AVOID CONFLICTS WITH OTHER BUILDING COMPONENTS. ESTABLISH ELEVATION OF PUBLIC SEWER SYSTEM.</li> <li>WHERE FIXTURES ARE MOUNTED TO WALLS SEAL ALL INTERSECTIONS WITH SILICONE CAULK.</li> <li>IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAIL OF CONSTRUCTION. CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY FOR A COMPLETE CODE COMPLYING MECHANICAL SYSTEM TO BE IN PROPER WOKRING ORDER.</li> <li>PROVIDE APPROPRIATE FIRE STOPPING MATERIALS WHERE FIRE RATED ASSEMBLIES ARE PENETRATED.</li> <li>MATERIALS EXPOSED WITHIN A PLENUM SHALL BE NONCOMUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTEM E84. EXISTING AND NEW PVC PIPING WILL REQUIRE 1/2 INCH MINERAL FIBER INSULATION WITH VAPOR RETARDER FACING THAT MEETS ASTM E84.</li> <li>CONTROLS: MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL CONDUIT AND WIRING FOR LOW VOLTAGE AND LINE VOLTAGE REQUIREMENTS FOR PROPER FUNCTION AND COMMUNICATION OF EQUIPMENT.</li> </ol>	366       S KALAMAZOO MALL         306       S KALAMAZOO MALL
						PUI					EDWA EDWA EDWA EDWA EDVA
MARK P-1 P-2	E6	60-1.25-1.25-5.25	27 7.5	HEAD (FT)           20           20	RPM           1576           3300	HP 0.5 1/6	BHP 0.237 -	IMPELLER DIA           5           -	1	REMARKS	
1. BASED ON "B	BELL & GOSSETT						500				
MARK		DDEL # SERVICE	INPUT (MBH)		, , ,	BOII VENT (	"Ø) V/P			REMARKS	LES
B-1 1. BASED ON "L		X0500N NATURAL GAS	500	485	75	4	120/1	1			CHEDUL
						WATER	HEATER				
MARK WH-1		IODELSERVICEDV75H803NNATURAL GAS	<b>STORAGE</b> 75	<b>GPH</b>		<b>T BTU</b> ,000	1		REMARKS		AL S
1. BASED ON "B	RADFORD WHIT	ſE".									
							LING UNITS				HANIC
MARK AHU-1 AHU-2		MODEL         CFM           DRB-3-0-142D-11H         4800           3RB-3-0-141D-12M         1600	MAX O.A. CFM 1000 360	0.75 1	ING MBH         HEAT PUMP           58.57         154.2           6.29         80.1	MBH V/ 480 460	)/3 1		REMARK	S	WEC
AHU-3 AHU-4	V3-B	BRB-3-0-141D-12M         1600           BRB-3-0-141D-12M         1600	360 360	0.75 5	6.29         80.1           6.29         80.1	460	)/3 1				ξ Σ
1. BASED ON "A 2. PROVIDE 7 D		ABLE THERMOSTAT WITH LOCKIN	G COVER.								
						CONDENS					
MARK CU-1			NECT TO	<b>TONS</b> 12.5	SEER (MIN)		V/P         1		REI	MARKS	SHEET
CU-2 CU-3	CFA-00	)5-A-A-3-DA00H /	HU-2 HU-3	4	14.2 14.2		460/3         1           460/3         1           460/3         1				MODELED BY: Author
CU-4 1. BASED ON "A	1	05-A-A-3-DA00H	HU-4	4	14.2		460/3 1				DESIGNED BY: Designer
											PM REVIEW: Approver QA/QC REVIEW:
					A	R INLETS A	ND OUTLETS				Checker DATE:
KEY E-1	MOD 50	F 1/2x1/2x1/2 GRID CORE		, ,					1	REMARKS	12/20/2023 SEAL:
R-1 R-2 R-3	65 50 300	F 1/2x1/2x1/2 GRID CORE	LAY-IN, ALUMINUM	I, BAKED ON ENAME		RALLELTOI			2 1 1		AND ANE OF MICHIGAN
S-1 S-2	TM S300	IS 24x24 LOUVER FACE, S	URFACE MOUNTED	, STEEL, BAKED ON					1 1 1		GLENN FRANCIS GLIDDEN ENGINEER
S-3			FLECTION SUPPLY	GRILLE, SURFACE N	IOUNTED, 3/4" BLADE SPA	CING WITH F	RONT BLADES PARALLE	L TO THE LONG DIMENSION	1		ACCESSIONAL CONTRACTOR
2. BASED ON "H	IART AND COOLI	<b>۲</b> ۳.	<b></b>						ING EQUIPMENT L	IST	Glenn Glidden
MARK	MODEL	ENCLOSURE LENGTH	ELECTRIC BAS	SEBOARD HEATER		ATTS	BTU/HR REMA		WATER SOFTENER		signature: 12/20/2023
EBH-1 EBH-2	SBT SBT	9'-6" 7'-10"	8'-0" 7'-0"		SB-81501SB-71501	200 050	4092         1, 2           3581         1, 2		MANUFACTURER: MODEL: 450 TCCM CAPACITY: 450,000	-FD-3"	DATE:
EBH-3 EBH-4 EBH-5	SBT SBT SBT	7'-10" 9'-6" 8'-0"	7'-0" 8'-0" 7'-0"		SB-8150 1	050 200	3581         1, 2           4092         1, 2           3581         1, 2		PIPEING SIZE: 3" SERVICE FLOW RA	NTE: 75 GPM STEADY EACH TANK @ 15 PSI DROP OW RATE: 150 GPM STEADY SYSTEM @ 15 PSI DROP	
EBH-5 EBH-6 EBH-7	SBT SBT SBT	8'-0" 9'-8" 9'-8"	7'-0" 8'-0" 8'-0"		SB-8150 1	050 200 200	3581         1, 2           4092         1, 2           4092         1, 2		BACKWASH RATE: MEDIA: 15 CU. FT. I	25 GPM EACH TANK RESIN EACH TANK	HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AND
EBH-8 EBH-9	SBT SBT SBT	6'-8" 11'-2"	5'-0" 10'-0"		SB-5150	750 500	4092         1, 2           2560         1, 2           5120         1, 2		CONTROL CENTER METERS: 3" V/P: 120/1	R: (2) CLACK WS3" VALVES EACH WITH 3" NHWB VALVES	GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZES
EBH-10 EBH-11	SBT SBT	6'-0" 6'-4"	5'-0" 5'-0"		SB-5150	750	2560         1, 2           2560         1, 2	<u>ET-1</u>	EXPANSION TANK	BELL AND GOSSETT	SCALE:
EBH-12 EBH-13 EBH-14	SBT SBT SBT	9'-6" 9'-6"	8'-0" 8'-0" 5'-0"		SB-8150 1	200	4092         1, 2           4092         1, 2           2560         1, 2		MODEL: PTA-20V TYPE: DIAPHRAGN	1	
EBH-14 1. BASED ON "V		6'-4"	5'-0"	[	SB-5150	750	2560 1, 2	]	MAXIMUM TEMPER OPERATING PRES MAXIMUM PRESSU	SURE: 30 PSI IRE: 45 PSI	ACI JOB # <b>22-1836</b>
		EATERS AS BOTTOM INTAKE, TOP	DISCHARGE WITH	I CAST PEDESTAL.					TANK VOLUME: 8.0 ACCEPTANCE VOL ORIENTATION: VER	GAL UME: 5.3 GAL	SHEET NO.

KEY	MODEL	DESCRIPTION	REMARKS
E-1	50F	1/2x1/2x1/2 GRID CORE, SURFACE MOUNTED, ALUMINUM, BAKED ON ENAMEL	1
R-1	657	24x8 ONE PIECE STEEL CONSTRUCTION, 1/3" SPACED FINS SET AT 20 DEGREES	2
R-2	50F	1/2x1/2x1/2 GRID CORE, LAY-IN, ALUMINUM, BAKED ON ENAMEL	1
R-3	300RL	STEEL DOUBLE DEFLECTION RETURN GRILLE, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION	1
S-1	TMS	24x24 LOUVER FACE, SURFACE MOUNTED, STEEL, BAKED ON ENAMEL	1
S-2	S300FL	DOUBLE DEFLECTION SIPRAL MOUNTED GRILLE, 3/4" BLADE SPACING WITH OUTER BLADE PARALLEL TO LONG DIMENSION	1
S-3	300FL	ALUMINUM DOUBLE DEFLECTION SUPPLY GRILLE, SURFACE MOUNTED, 3/4" BLADE SPACING WITH FRONT BLADES PARALLEL TO THE LONG DIMENSION	1

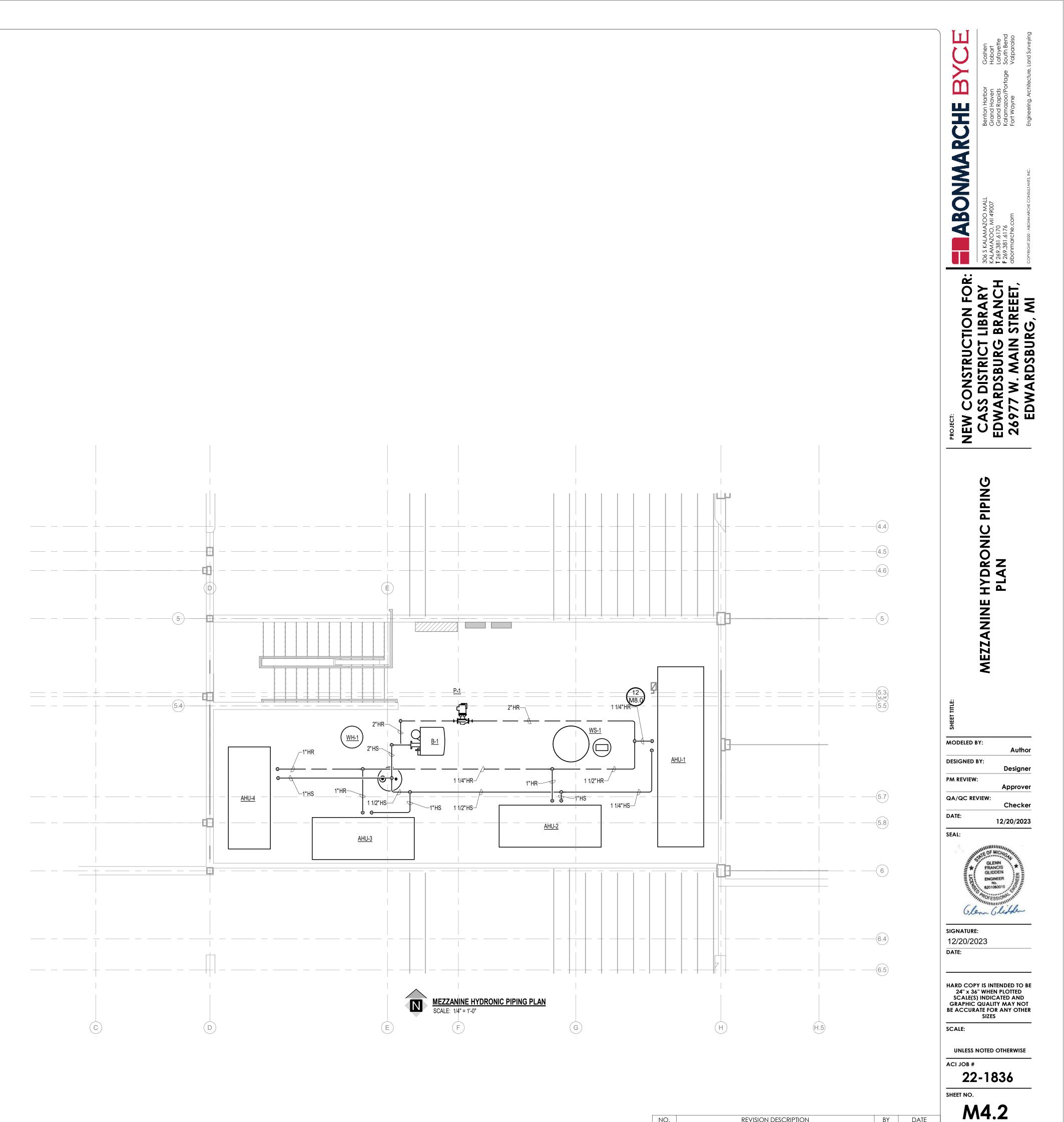
	ELECTRIC BASEBOARD HEATERS								
MARK	MODEL	ENCLOSURE LENGTH	CONVECTOR LENGTH	CATALOG NUMBER	WATTS	BTU/HR	REMARKS		
EBH-1	SBT	9'-6"	8'-0"	SB-8150	1200	4092	1, 2		
EBH-2	SBT	7'-10"	7'-0"	SB-7150	1050	3581	1, 2		
EBH-3	SBT	7'-10"	7'-0"	SB-7150	1050	3581	1, 2		
EBH-4	SBT	9'-6"	8'-0"	SB-8150	1200	4092	1, 2		
EBH-5	SBT	8'-0"	7'-0"	SB-7150	1050	3581	1,2		
EBH-6	SBT	9'-8"	8'-0"	SB-8150	1200	4092	1, 2		
EBH-7	SBT	9'-8"	8'-0"	SB-8150	1200	4092	1, 2		
EBH-8	SBT	6'-8"	5'-0"	SB-5150	750	2560	1, 2		
EBH-9	SBT	11'-2"	10'-0"	SB-10150	1500	5120	1, 2		
EBH-10	SBT	6'-0"	5'-0"	SB-5150	750	2560	1,2		
EBH-11	SBT	6'-4"	5'-0"	SB-5150	750	2560	1, 2		
EBH-12	SBT	9'-6"	8'-0"	SB-8150	1200	4092	1, 2		
EBH-13	SBT	9'-6"	8'-0"	SB-8150	1200	4092	1,2		
EBH-14	SBT	6'-4"	5'-0"	SB-5150	750	2560	1, 2		

#### GENERAL CONTRACTOR REQUIREMENTS:

<u>1</u>	WATER SOFTENER MANUFACTURER: PEERLESS MODEL: 450 TCCM-FD-3" CAPACITY: 450,000 GRAINS (EACH) PIPEING SIZE: 3" SERVICE FLOW RATE: 75 GPM STEADY EACH TANK @ 15 PSI DROP FLOW DEMAND FLOW RATE: 150 GPM STEADY SYSTEM @ 15 PSI DROP BACKWASH RATE: 25 GPM EACH TANK MEDIA: 15 CU. FT. RESIN EACH TANK CONTROL CENTER: (2) CLACK WS3" VALVES EACH WITH 3" NHWB VALVES METERS: 3" V/P: 120/1
1	EXPANSION TANK MANUFACTURER: BELL AND GOSSETT MODEL: PTA-20V TYPE: DIAPHRAGM MAXIMUM TEMPERATURE: 160°F OPERATING PRESSURE: 30 PSI MAXIMUM PRESSURE: 45 PSI TANK VOLUME: 8.0 GAL ACCEPTANCE VOLUME: 5.3 GAL ORIENTATION: VERTICAL

BY DATE

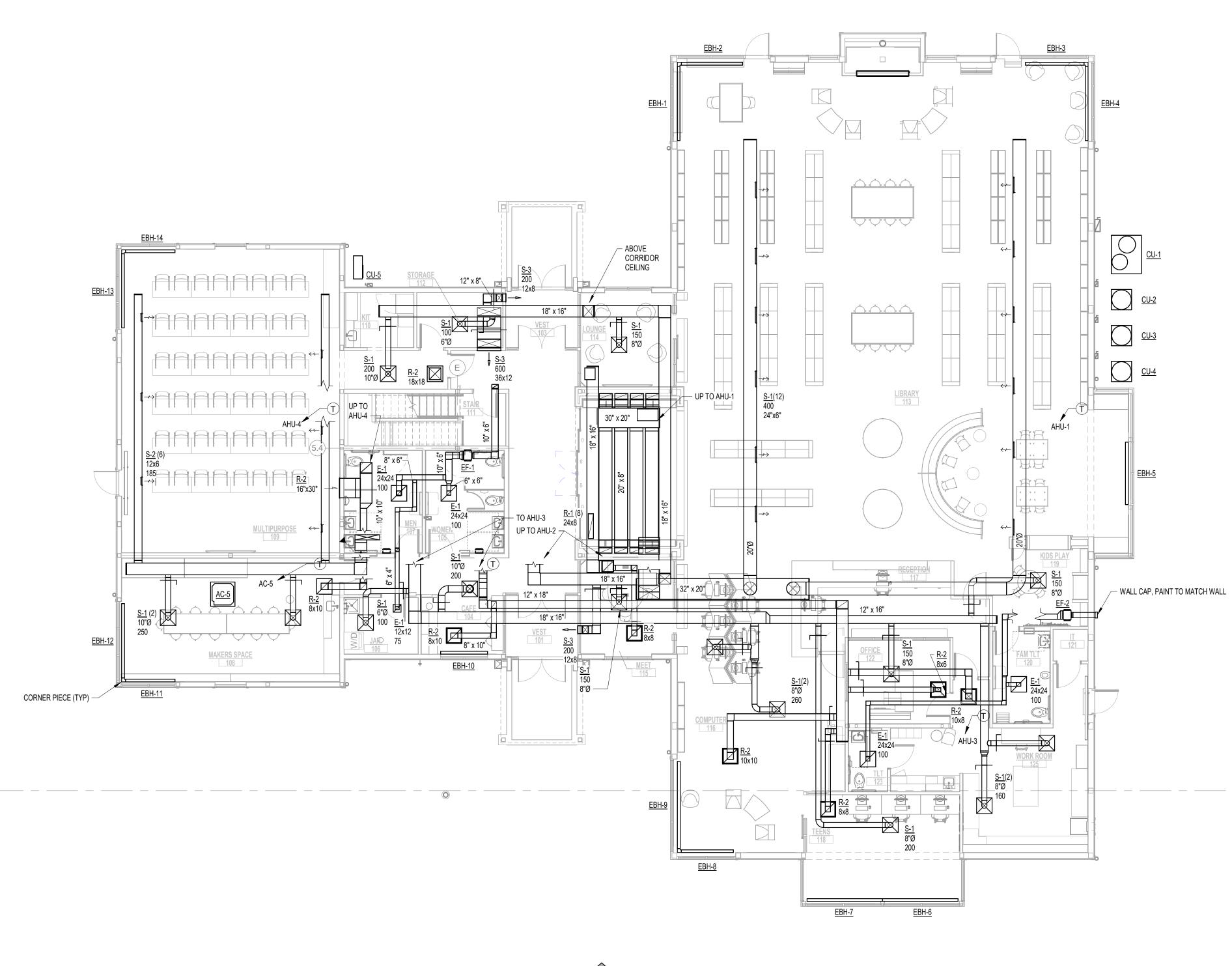
**MO**.1



NO.

**REVISION DESCRIPTION** 







FIRST FLOOR HVAC PLAN SCALE: 1/8" = 1'-0"

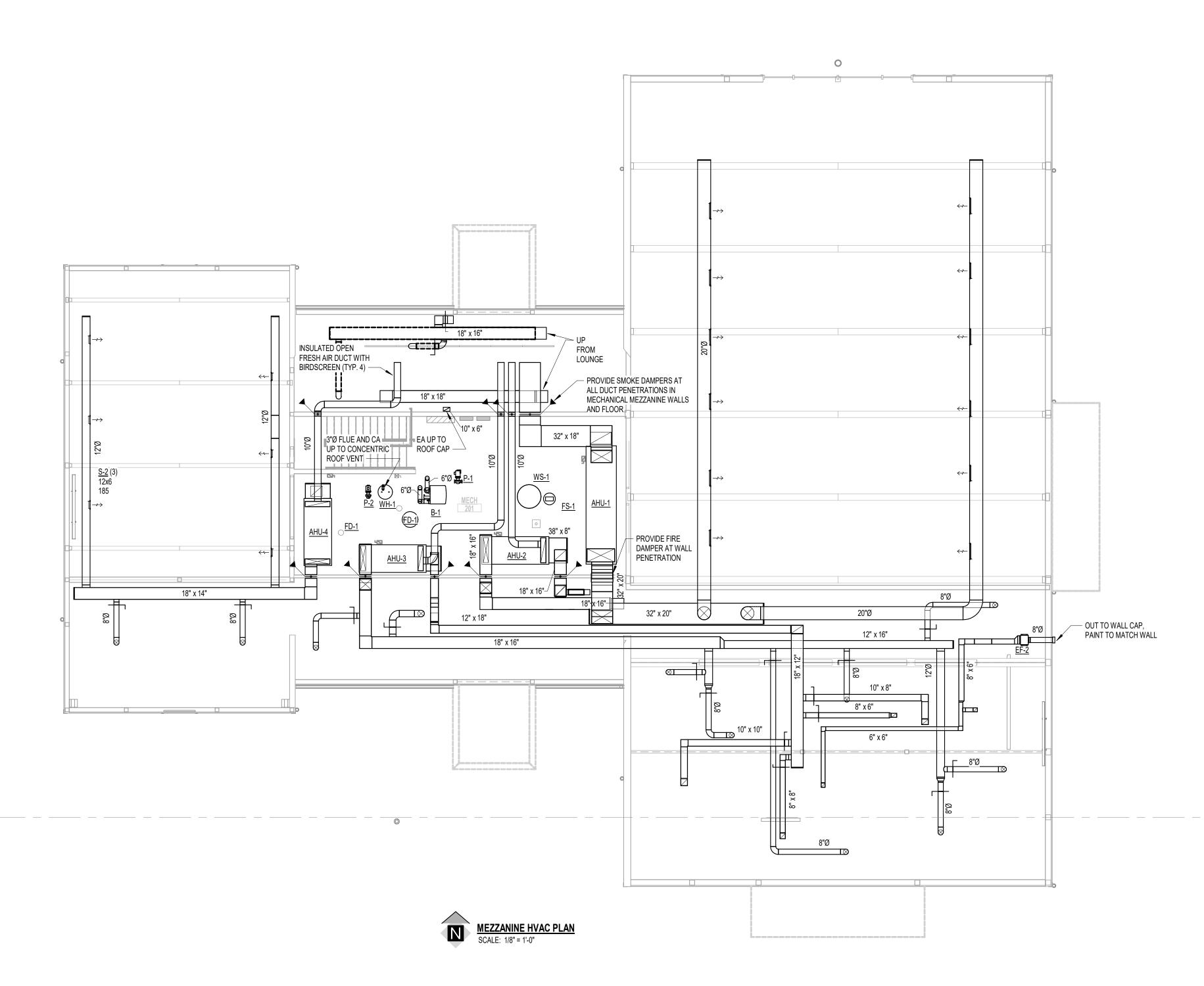
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ARCHE BYCE	Benton Harbor Goshen Grand Haven Hobart Grand Rapids Lafayette Kalamazoo/Portage South Bend Fort Wayne Valparaiso	Engineering, Architecture, Land Surveying
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PROJECT: NEW CONSTRUCTION FOR:	CASS DISTRICT LIBRARY EDWARDSBURG BRANCH 26977 W. MAIN STREEET.	EDWARDSBURG, MI
	FIRST FLOOR HVAC PLAN	
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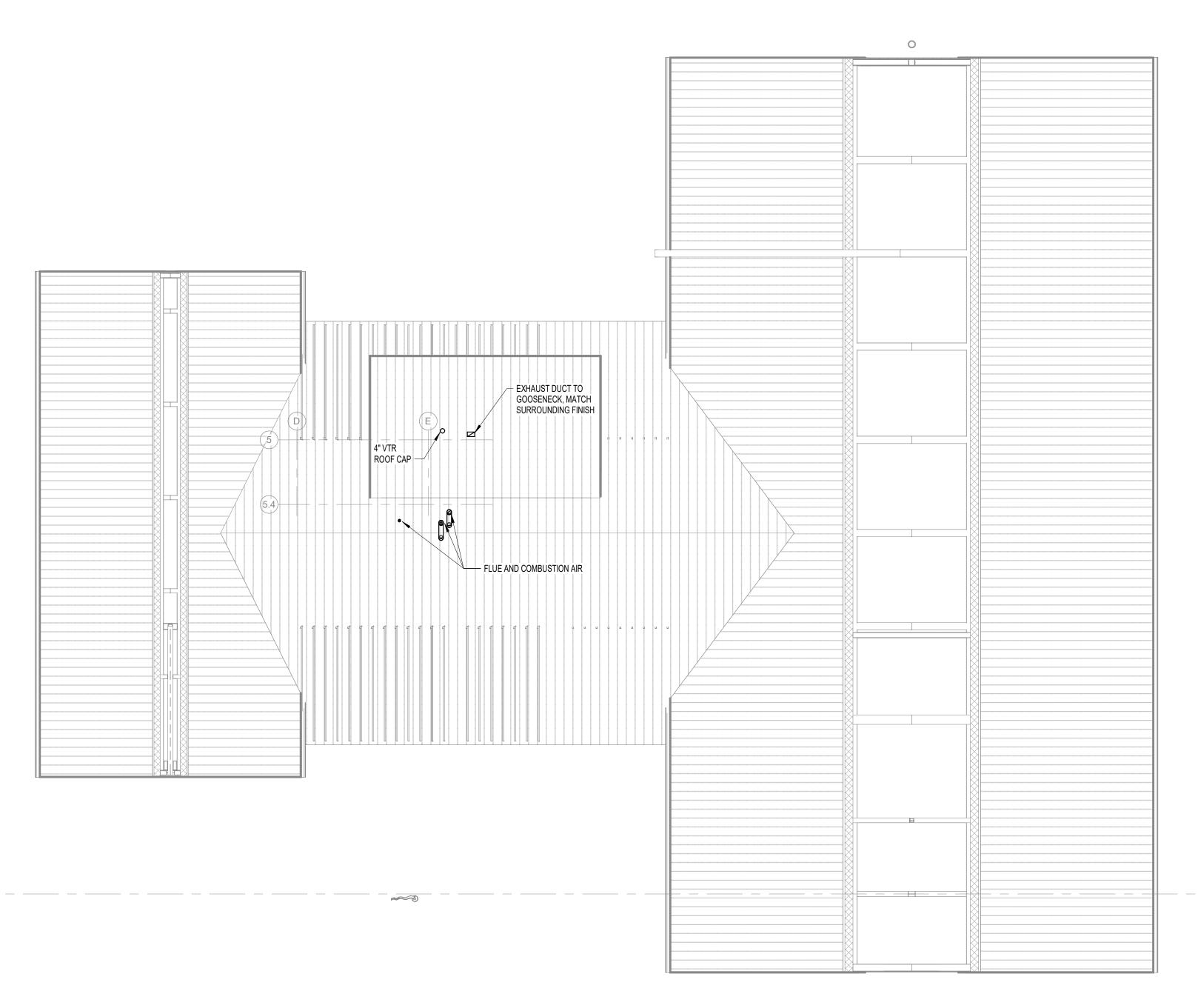
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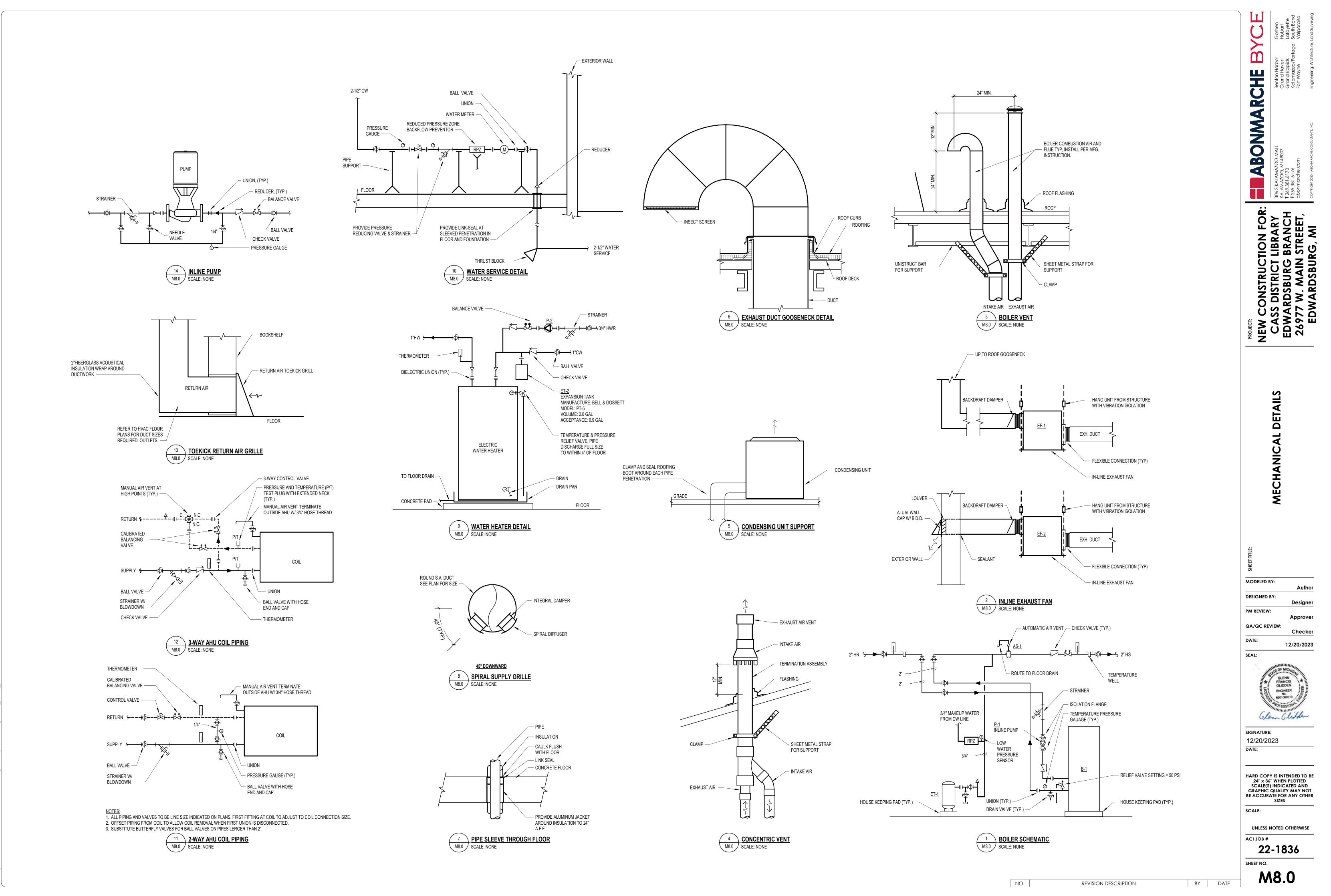
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	MECHANICAL ROOF PLAN					
MODELED BY: MODELED BY: Designer DESIGNED BY: Designer PM REVIEW: Approver Approver QA/QC REVIEW: Checker DATE: 12/20/2023 SEAL:						
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	DATA DEVICES SCHEDULE							
AND OUTLETS BY	BY	ΒY	×	E - ELECTRICAL M = MECHANICAL X = OTHERS		VTER		
CONDUITS AND O	PROVIDED	INSTALLED	WIRED BY	SYMBOL	DESCRIPTION	M. H. TO CENTER		
E	х	х	х	$\bigtriangledown$	DATA DEVICE	18"		
E	х	х	х	DPS	DOOR POSITION SWITCH	IN DOOR FRAME		
E	х	х	х	ES	ELECTRIC STRIKE	44"		
E	Х	Х	Х	CR	CARD READER	IN DOOR FRAME		

	LIGHTING DEVICES SCHEDULE							
UTLETS BY	CONDUITS AND OUTLETS BY PROVIDED BY INSTALLED BY		BY		E - ELECTRICAL M = MECHANICAL X = OTHERS		ИТЕК	
CONDUITS AND O			INSTALLED B WIRED BY		DESCRIPTION	M. H. TO CENTER		
E	E	Е	Е	0	DAYLIGHT SENSOR	CEILING		
E	E	E	E	(S)	VACANCY SENSOR	CEILING		
E	E	E	E	ण्ड	OCCUPANCY SENSOR, WALL MOUNTED	80"		
E	E	E	E	PC	PHOTOCELL SENSOR, WALL MOUNTED	80"		
E	E	E	E	<b>\$</b> D	DIMMING VOLTAGE SWITCH	44"		
E	E	E	E	\$os	OCCUPANCY SENSOR SWITCH, DUAL TECHNOLOGY	44"		
E	E	E	E	\$	LOW VOLTAGE SWITCH	44"		

	FIRE ALARM DEVICES SCHEDULE							
UTLETS BY	CONDUITS AND OUTLETS BY INSTALLED BY PROVIDED BY			E - ELECTRICAL M = MECHANICAL X = OTHERS	VICAL			
CONDUITS AND O					DESCRIPTION	M. H. TO CENTER		
Е	Е	Е	E		FIRE ALARM ANNUNCIATOR PANEL			
E	E	E	E		FIRE ALARM CONTROL PANEL			
Е	E	E	E	F	FIRE ALARM CEILING HORN/STROBE DEVICE	CEILING		
Е	E	E	E	$\odot$	FIRE ALARM CEILING STROBE DEVICE	CEILING		
Е	E	E	E	固	FIRE ALARM SPEAKER STROBE, WALL MOUNTED, WP = WEATHERPROOF RATED	96"		
Е	E	E	E	θ	CEILING MOUNTED SMOKE DETECTOR	CEILING		

	LIGHT FIXTURE SCHEDULE							
MARK	SYMBOL	LA	MPS	MANUFACTURER	MTG.	REMARKS		
		WATTS	TYPE					
WA		19 W	LED	LITHONIA: DSXW1 LED 10C 350 30K T3M MVOLT PE DBLXD OR EQUIVALENT	WALL 8'-0" AFF	EXTERIOR EGRESS LIGHT WITH EMERGENCY BATTERY BACK-UP.		
WW	모	15 W	LED	KIM LIGHTING: INT-2-24L-30-3K8-WW-UNV-A3-CR-LM-BLT-PC OR EQUIVALENT	1'-0" ABOVE GRADE	WALL WASH FIXTURE WITH NARROW MEDIUM DISTRIBUTION.		
ХА	ֿ⊠	1 W	LED	LITHONIA: LQC XX R EL N OR EQUIVALENT	8'-0" AFF	EMERGENCY EXIT SIGN. PROVIDE FACES AND CHEVRONS AS SHOWN.		

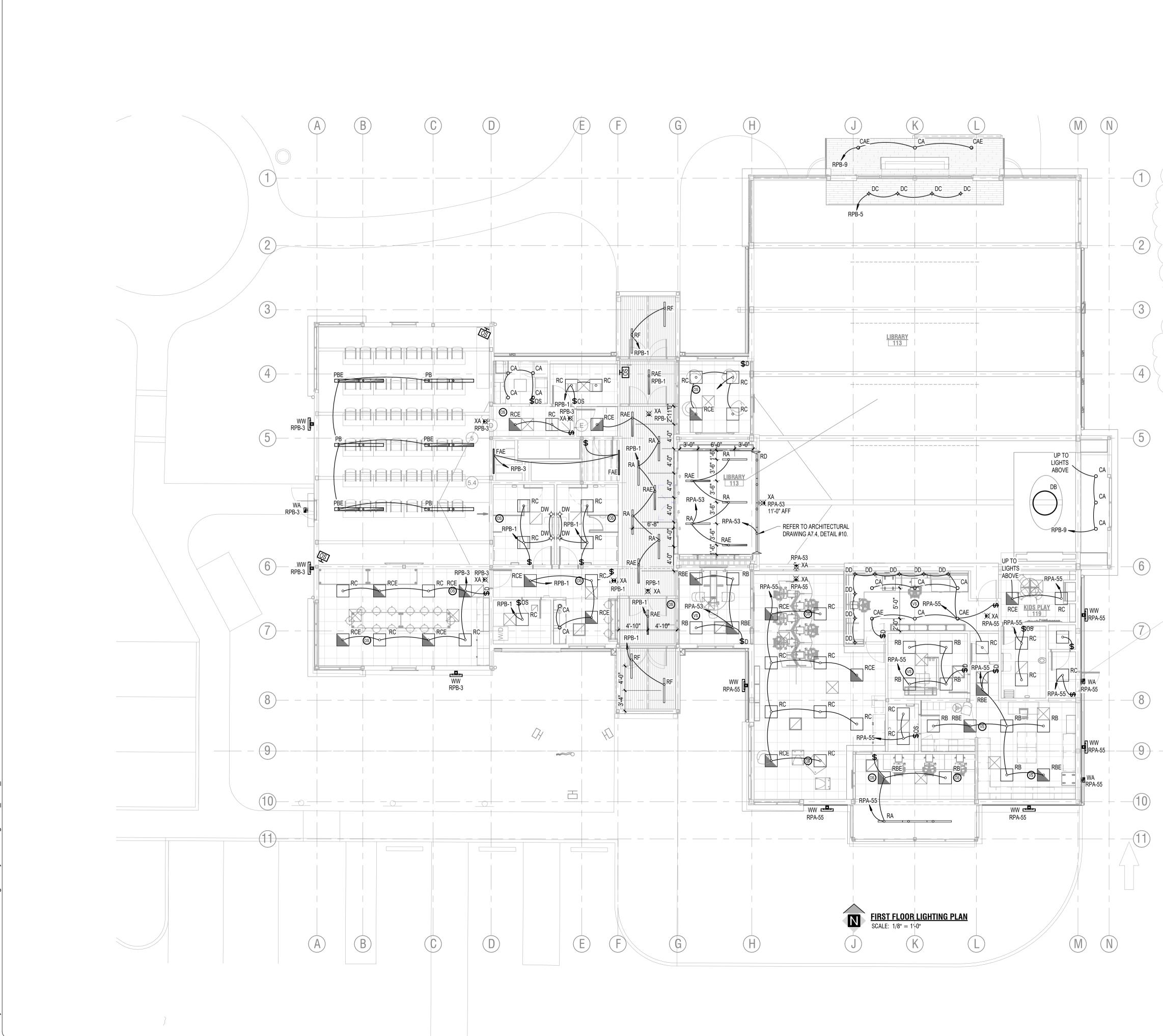
	ELECTRICAL EQUIPMENT SCHEDULE						
UTLETS BY	BY		37	E - ELECTRICAL M = MECHANICAL X = OTHERS		NTER	
CONDUITS AND OUTLETS BY	INSTALLED BY	PROVIDED BY	WIRED BY	SYMBOL	DESCRIPTION	M. H. TO CENTER	
E	E	Е	E	42	VARIABLE FREQUENCY DRIVE (VFD)		
Е	E	Е	E	45	FUSIBLE DISCONNECT SWITCH W/ FUSES TO SUIT, WP = NEMA 3R, XP = CLASS 2, DIVISION 1 RATED		
E	E	E	E	45	Fusible Disconnect Switch		
E	E	E	E		CIRCUIT BREAKER PANEL, SURFACE MOUNTED	48"	
E	E	Е	E	77777	DISTRIBUTION PANEL, SURFACE	48"	
E	E	E	E		OIL TYPE TRANSFORMER (UTILITY)		

	ELECTRICAL FIXTURE SCHEDULE						
CONDUITS AND OUTLETS BY	M = MECHAN		E - ELECTRICAL M = MECHANICAL X = OTHERS				
CONDUITS	PRO	INST	M	SYMBOL	DESCRIPTION	M. H. TO CENTER	
E	E	E	E	FB	FLOOR BOX	FLOOR	
E	E	E	E	HD	ELECTRIC HAND DRYER CONNECTION	44"	
Е	E	E	E	J	JUNCTION BOX		
E	E	E	E	6	SINGLE PHASE MOTOR		
E	E	E	E	\$M	MANUAL MOTOR STARTER		
E	E	E	E	●	PUSH-BUTTON CONTROL		
E	E	E	E	Ф	DUPLEX RECEPTACLE, U = RECEPTACLE WITH USB PORTS	18"	
E	E	E	E	Ф	DUPLEX RECEPTACLE, ABOVE COUNTER OR AS NOTED	44"	
E	E	E	E	\$	GFCI RECEPTACLE, WP = WEATHERPROOF IN-USE COVER	18"	
E	E	E	E	\$	GFI RECEPTACLE, ABOVE COUNTER OR AS NOTED, WP = WEATHERPROOF IN-USE COVER	44"	
E	E	E	E	<b>#</b>	QUAD PLEX RECEPTACLE	18"	
E	E	E	E	<b>#</b>	QUAD PLEX RECEPTACLE, ABOVE COUNTER OR AS NOTED	44"	
E	E	E	E	۲	SPECIAL PURPOSE RECEPTACLE		
E	E	E	E	TC	TIME CLOCK CONTROL		
E	E	E	E	œ	CORD REEL; BASIS OF DESIGN:HUBBELL - HBLC40123TT		

MARK	SYMBOL	WA
CA	Ο	1(
CAE	0	1(
DA	0	21
DB	0	10
DC	¤	60
DD	¤	7
DW	-¢-	14
FAE	┝━━┥	4(
IA	<b>⊢</b> ⊶	30
IAE	ب ب	30
PA	[ 0]	96
PAE	0	96
PB	<u> </u>	64
PBE	0	64
PC	0	48
PCE	0	48
RA	o	44
RAE	0	44
RB	0	4(
RBE	~	4(
RC	0	30
RCE	~	30
RD	o	32
RF	[ • ]	44

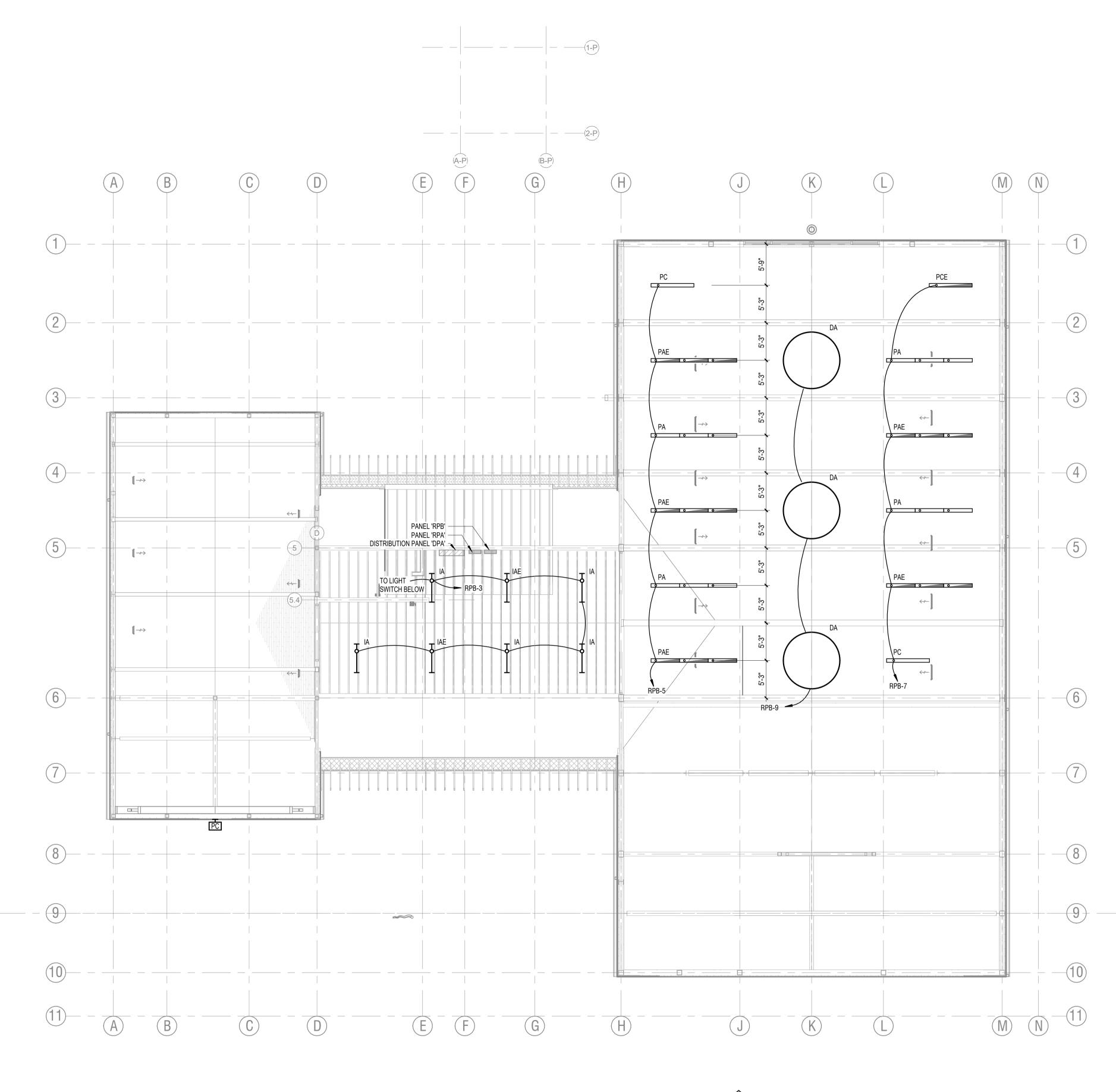
	LIGHT FIXTURE SCHEDULE								
LA VATTS	MPS TYPE	MANUFACTURER	MTG.	REMARKS					
10 W	LED	LITHONIA: LDN6 40/10 L06 WR LS TRW MVOLT GZ10 OR EQUIVALENT	RECESSED	6" DIAMETER RECESSED DOWNLIGHT. 1000 DELIVERED LUMENS.					
10 W	LED	LITHONIA: LDN6 40/10 L06 WR LS TRW MVOLT GZ10 EL OR EQUIVALENT	RECESSED	6" DIAMETER RECESSED DOWNLIGHT W/ INTEGRATED EMERGENCY BATTERY PACK. 1000 DELIVERED LUMENS.					
215 W	LED	G LIGHTING: GL-2728-O-XXX-4-A OR EQUIVALENT	13'-8" AFF	8'-0" ROUND RING PENDANT. 60% UPLIGHT, 40% DOWNLIGHT. 20096 DELIVERED LUMENS. ARCHITECT TO VERIFY FINISH IN SHOP DRAWING PHASE.					
108 W	LED	G LIGHTING: GL-2726-G-XXX-4-A OR EQUIVALENT	13'-8" AFF	4'-0" ROUND RING PENDANT. 60% UPLIGHT, 40% DOWNLIGHT. 10197 DELIVERED LUMENS. ARCHITECT TO VERIFY FINISH IN SHOP DRAWING PHASE.					
60 W	LED	DILILAMP: 48CM WHITE 41W INTEGRATED LED PHASE-CUT	TBD	ARTICHOKE LAMP, 18.9".					
7 W	LED	LUMENWERX AE2CYP D 12IN XXXX BVLD XXXX NOL 50DEG 2STP 80CRI 40K LSDL UNV 7W NA D1 1C FLR XXXX BPC##IN BKS##IN NA OR EQUIVALENT	13'-8" AFF	SMALL DECORATIVE PENDANT. 560 DELIVERED LUMENS. ARCHITECT TO VERIFY FINISH IN SHOP DRAWING PHASE.					
14 W	LED	KOHLER: #32375-SC01-BNL OR EQUIVALENT.	TBD	DECORATIVE WALL SCONCE.					
40 W	LED	LITHONIA: WL4 40L GZ10 LP840 EL7L OR EQUIVALENT	WALL 8'-0" AFF	4' WRAP AROUND STAIR WELL LIGHT W/ INTEGREATED EMERGENCY BATTERY PACK. 4000 DELIVERED LUMENS.					
30 W	LED	LITHONIA: ZL1D L48 3000LM FST MVOLT 40K 80CRI WH OR EQUIVALENT	CHAIN 10'-0" AFF	8' INDUSTRIAL STRIP LIGHT. 3000 DELIVERED LUMENS.					
30 W	LED	LITHONIA: ZL1D L48 3000LM FST MVOLT 40K 80CRI E10WLCP WH OR EQUIVALENT	10'-0" AFF	8' INDUSTRIAL STRIP LIGHT W/ INTEGRATED EMERGENCY BATTERY PACK. 3000 DELIVERED LUMENS.					
96 W	LED	MARK ARCHITECTURAL LIGHTING: S2PD LSL 12FT MSL6 80CRI 40K 1000LMF SCT MIN10 FLL MVOLT XXX ZT ADC F2/144A RDCY BLKCY BCRD PIF OR EQUIVALENT	AIRCRAFT CABLE 16'-0" AFF	12' LINEAR PENDANT. 12000 DELIVERED LUMENS. ARCHITECT TO VERIFY FINISH IN SHOP DRAWING PHASE.					
96 W	LED	MARK ARCHITECTURAL LIGHTING: S2PD LSL 12FT MSL6 80CRI 40K 1000LMF SCT MIN10 FLL MVOLT XXX 1E10WLCP ZT ADC F2/144A RDCY BLKCY BCRD PIF OR EQUIVALENT	AIRCRAFT CABLE 16'-0" AFF	12' LINEAR PENDANT W/ INTEGRATED EMERGENCY BATTERY PACK. 12000 DELIVERED LUMENS. ARCHITECT TO VERIFY FINISH IN SHOP DRAWING PHASE.					
64 W	LED	MARK ARCHITECTURAL LIGHTING: S2PD LLP 8FT MSL8 80CRI 40K 1000LMF SCT MIN10 FLL MVOLT XXX ZT F2/144A RDCY BLKCY BCRD PIF OR EQUIVALENT	AIRCRAFT CABLE 16'-0" AFF	8' LINEAR PENDANT. 8000 DELIVERED LUMENS. ARCHITECT TO VERIFY FINISH IN SHOP DRAWING PHASE.					
64 W	LED	MARK ARCHITECTURAL LIGHTING: S2PD LLP 8FT MSL8 80CRI 40K 1000LMF SCT MIN10 FLL MVOLT XXX 1E10WLCP ZT F2/144A RDCY BLKCY BCRD PIF OR EQUIVALENT	AIRCRAFT CABLE 16'-0" AFF	8' LINEAR PENDANT W/ INTEGRATED EMERGENCY BATTERY PACK. 8000 DELIVERED LUMENS. ARCHITECT TO VERIFY FINISH IN SHOP DRAWING PHASE.					
48 W	LED	MARK ARCHITECTURAL LIGHTING: S2PD LLP 6FT MSL6 80CRI 40K 1000LMF SCT MIN10 FLL MVOLT XXX ZT F2/144A RDCY BLKCY BCRD PIF OR EQUIVALENT	AIRCRAFT CABLE 16'-0" AFF	6' LINEAR PENDANT. 6000 DELIVERED LUMENS. ARCHITECT TO VERIFY FINISH IN SHOP DRAWING PHASE.					
48 W	LED	MARK ARCHITECTURAL LIGHTING: S2PD LLP 6FT MSL6 80CRI 40K 1000LMF SCT MIN10 FLL MVOLT XXX 1E10WLCP ZT F2/144A RDCY BLKCY BCRD PIF OR EQUIVALENT	AIRCRAFT CABLE 16'-0" AFF	6' LINEAR PENDANT W/ INTEGRATED EMERGENCY BATTERY PACK. 6000 DELIVERED LUMENS. ARCHITECT TO VERIFY FINISH IN SHOP DRAWING PHASE.					
44 W	LED	MARK ARCHITECTURAL LIGHTING: SL2L LOP 4FT FLP FL 80CRI 40K 1000LMF MIN10 120 ZT OR EQUIVALENT	RECESSED	3" RECESSED LINEAR. 4000 DELIVERED LUMENS.					
44 W	LED	MARK ARCHITECTURAL LIGHTING: SL2L LOP 4FT FLP FL 80CRI 40K 1000LMF MIN10 120 E10WLCP ZT OR EQUIVALENT	RECESSED	3" RECESSED LINEAR W/ INTEGRATED EMERGECY BATTERY PACK. 4000 DELIVERED LUMENS.					
40 W	LED	LITHONIA: 2BLT2 40L ADP EZ1 LP840 OR EQUIVALENT	RECESSED	2X2 TROFFER. HIGH LUMEN OUTPUT. 4000 DELIVERED LUMENS.					
40 W	LED	LITHONIA: 2BLT2 40L ADP EZ1 LP840 EL7L OR EQUIVALENT	RECESSED	2X2 TROFFER W/ INTEGRATED EMERGENCY BATTERY PACK. HIGH LUMEN OUTPUT. 4000 DELIVERED LUMENS.					
30 W	LED	LITHONIA: 2BLT2 33L ADP EZ1 LP840 OR EQUIVALENT	RECESSED	2X2 TROFFER. LOW LUMEN OUTPUT. 3300 DELIVERED LUMENS.					
30 W	LED	LITHONIA: 2BLT2 33L ADP EZ1 LP840 EL7L OR EQUIVALENT	RECESSED	2X2 TROFFER W/ INTEGRATED EMERGENCY BATTERY PACK. LOW LUMEN OUTPUT. 3300 DELIVERED LUMENS. VERTICAL RECESSED LINEAR TO BE SPECIFIED					
32 W	LED	MARK ARCHITECTURAL LIGHTING: SL1LW LOP 3FT FL 90CRI 40K 200LMF MIN1 FLL MVOLT XXX OR EQUIVALENT	RECESSED	AT 9'-6'. HORIZONTAL RECESSED LINEAR TO BE SPECIFIED AT 16'. 200 DELIVERED LUMENS PER FOOT. ARCHITECT TO VERIFY FINISH IN SHOP DRAWING PHASE.					
44 W	LED	MARK ARCHITECTURAL LIGHTING: SL2L LOP 4FT FLP FL 80CRI 40K 1000LMF MIN10 120 ZT DPL OR EQUIVALENT	RECESSED	3" RECESSED LINEAR DAMP RATED. 4000 DELIVERED LUMENS.					

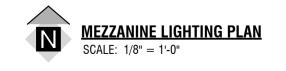




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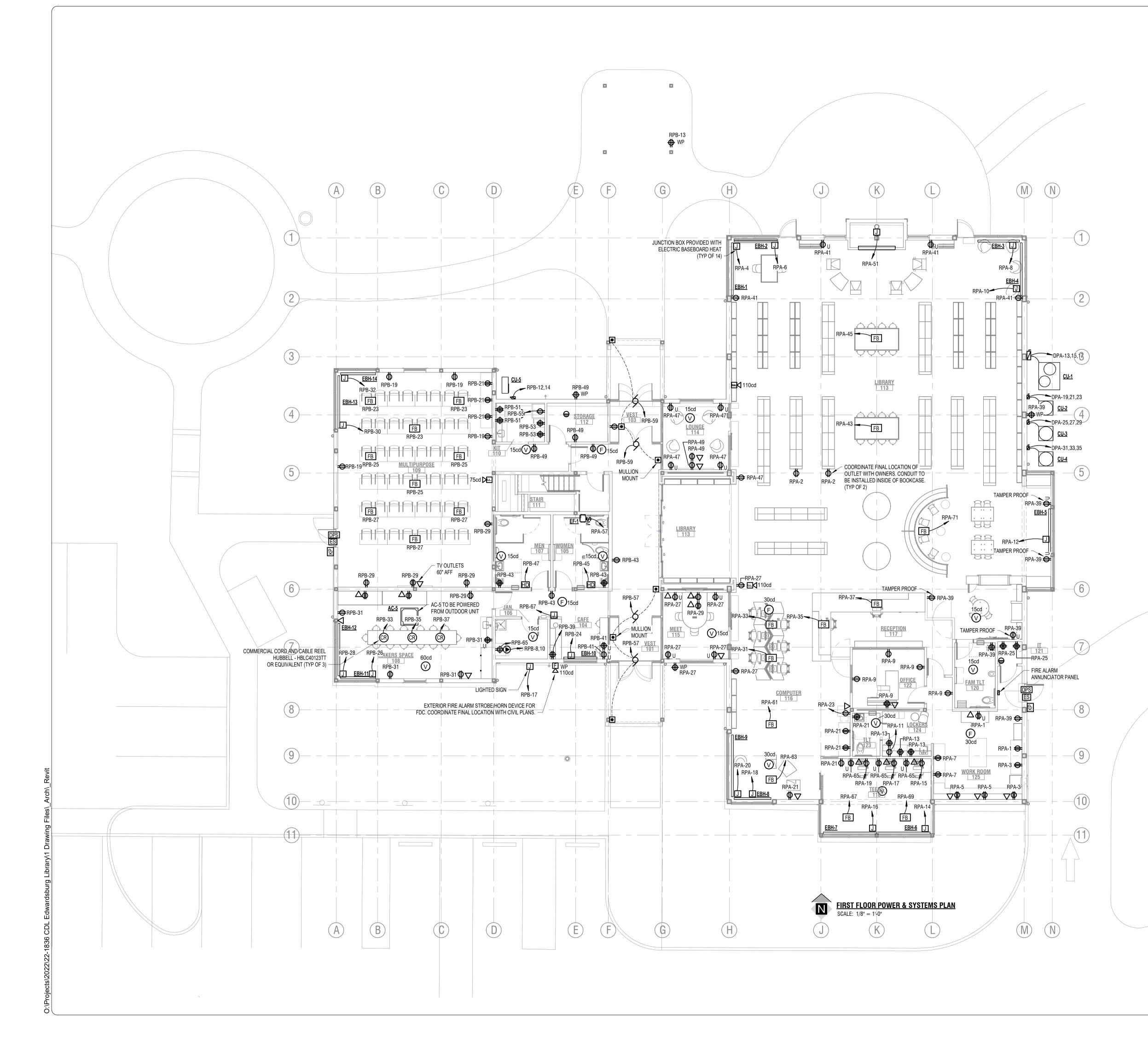
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SHEET NO. F21					No.         6201065240         SIGNATURE:         DATE:         2023.12.20         HARD COPY IS INTENDED TO BE         24" x 36" WHEN PLOTTED         SCALE(S) INDICATED AND         GRAPHIC QUALITY MAY NOT         BE ACCURATE FOR ANY OTHER         SCALE:         UNLESS NOTED OTHERWISE         ACI JOB #
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<b>VEZZANINE LIGHTING PLAN</b>						
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SEAL:						
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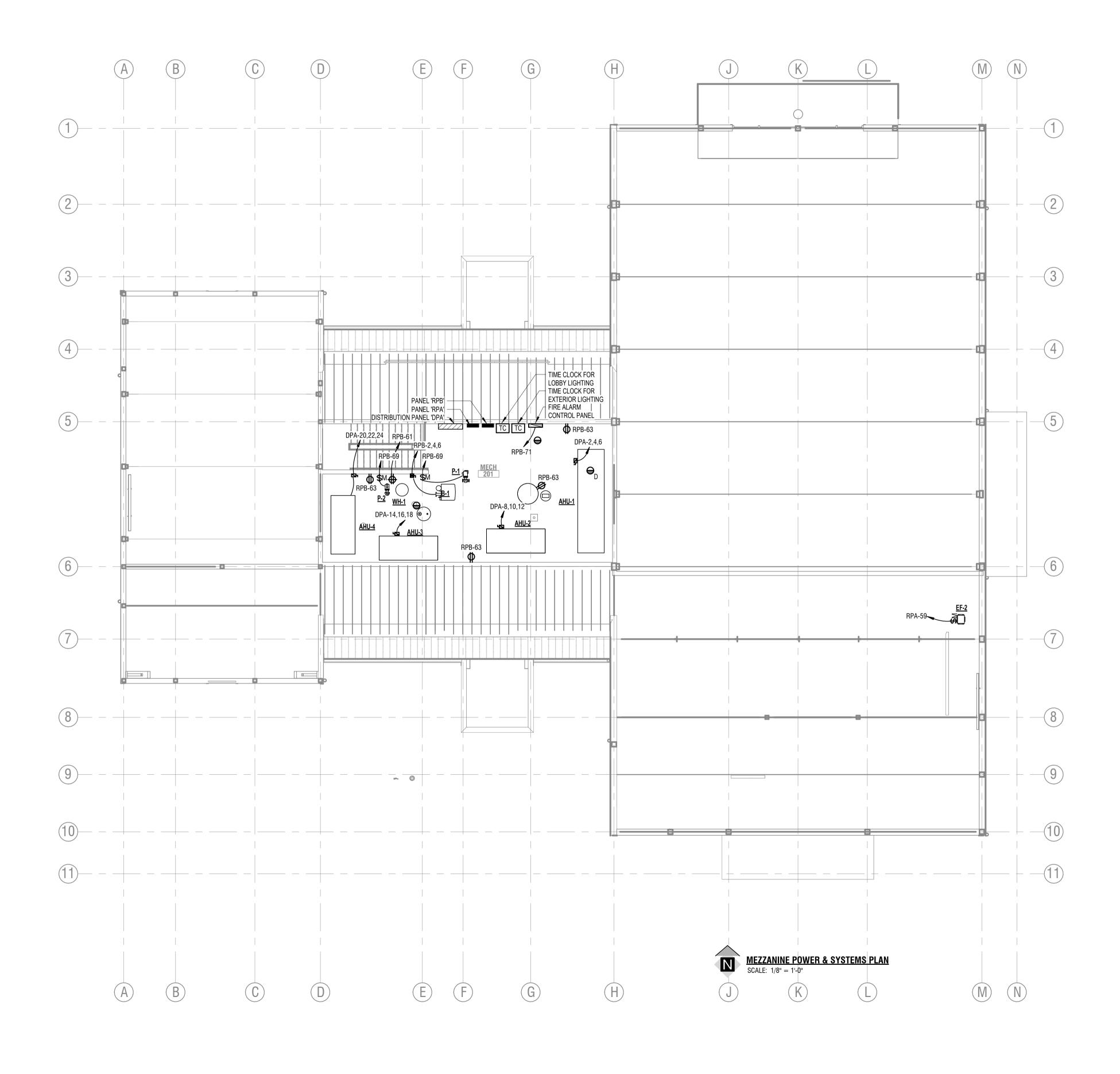
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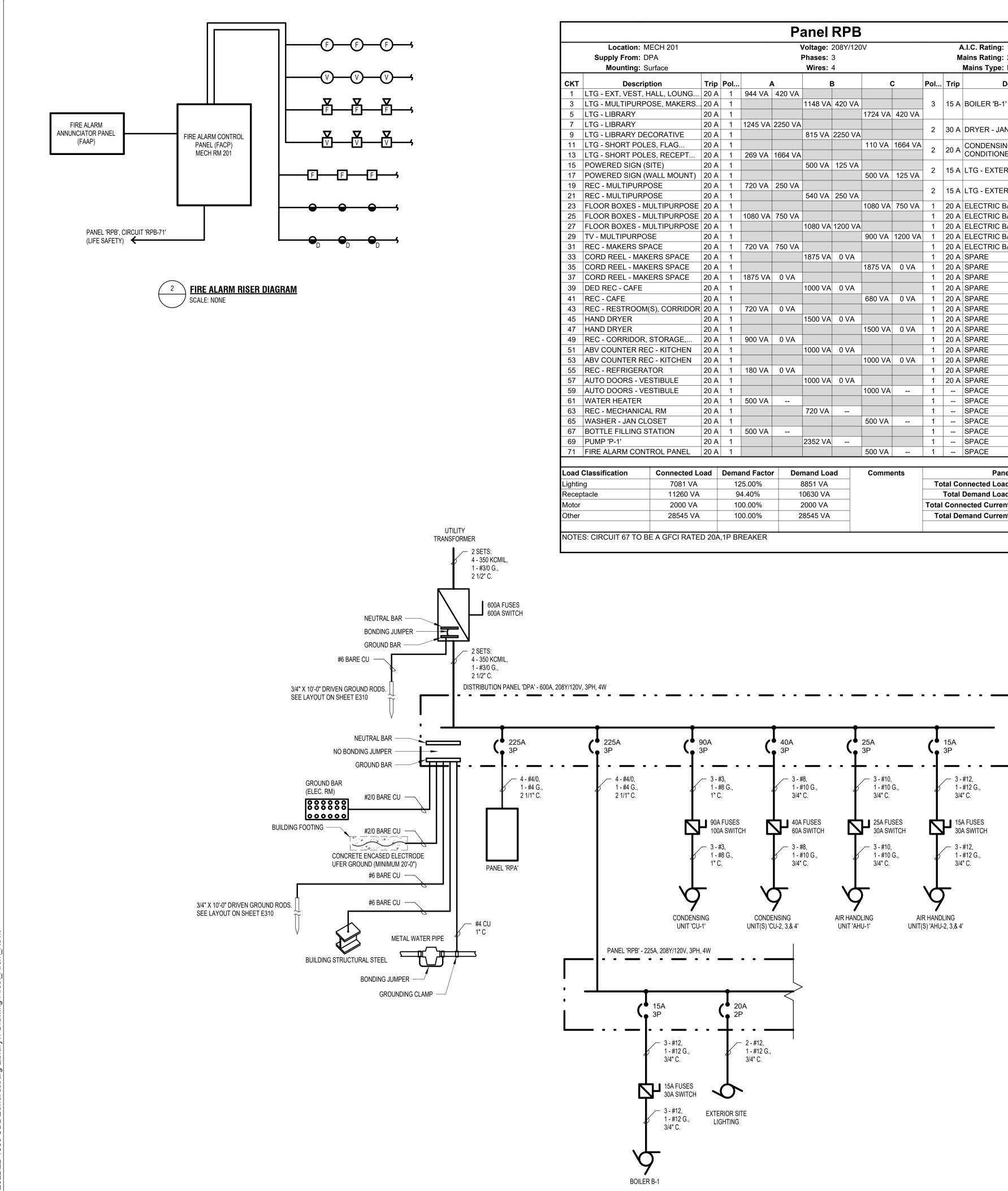
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		FIRST FLOOR POWER & SYSTEMS PLAN				
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GENERAL LIGHTING NOTES:
IIGHT FIXTURES IN LIBRARY, RECEPTION, COPUTER AND TEEN
SPACES SHOULD OPERATE BY TIME CLOCK

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	MEZZANINE POWER & SYSTEMS PLAN	
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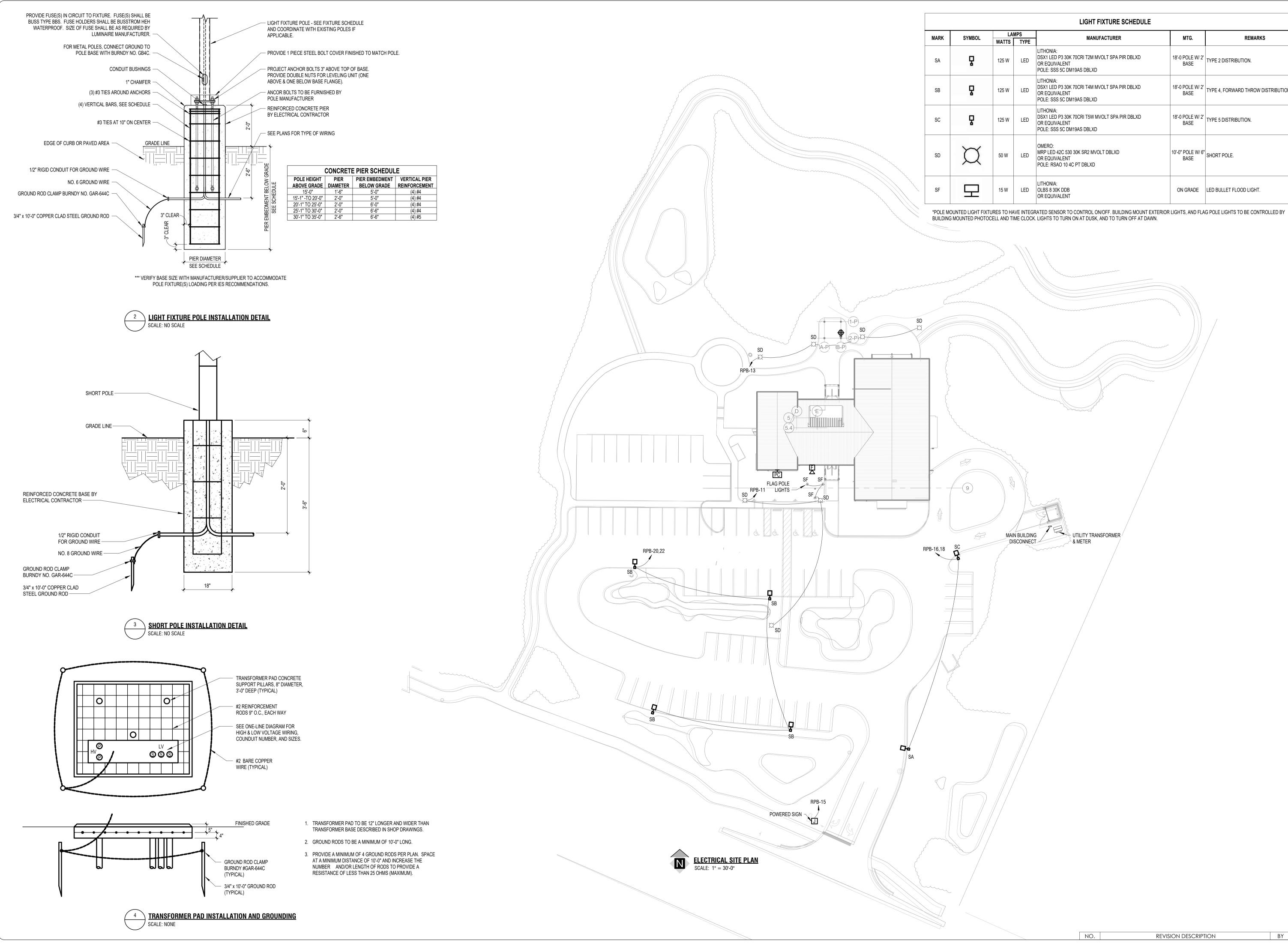
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LTIPURPOS	SE, MAKERS	20 A	1			1148 VA	420 VA			3	15 A	BOILER 'B-1'	_	4
RARY		20 A	1					1724 VA	420 VA					6
RARY		20 A	1	1245 VA	2250 VA					2	30 A	DRYER - JAN (		8
RARY DEC	ORATIVE	20 A	1			815 VA	2250 VA			~	00 /			
ORT POLES		20 A	1					110 VA	1664 VA	2	20 A		UNIT 'CU-5', AIR	12
ORT POLES	S, RECEPT	20 A	1	269 VA	1664 VA					~	20 7	CONDITIONER	: 'AC-5'	14
D SIGN (SI	TE)	20 A	1			500 VA	125 VA			2	15 A	LTG - EXTERIO		16
D SIGN (W	ALL MOUNT)	20 A	1					500 VA	125 VA	2	13 A	LIG-LATERIC		18
JLTIPURPO	SE	20 A	1	720 VA	250 VA					2	15 A	LTG - EXTERIO		20
JLTIPURPO	SE	20 A	1			540 VA	250 VA			2	15 A			22
OXES - MU	LTIPURPOSE	20 A	1					1080 VA	750 VA	1	20 A	ELECTRIC BAS	SE HEATER 'EBH-10'	24
OXES - MU	LTIPURPOSE	20 A	1	1080 VA	750 VA					1	20 A	ELECTRIC BAS	SE HEATER 'EBH-11'	26
OXES - MU	LTIPURPOSE	20 A	1			1080 VA	1200 VA			1	20 A	ELECTRIC BAS	SE HEATER 'EBH-12'	28
TIPURPOSE	Ε	20 A	1					900 VA	1200 VA	1	20 A	ELECTRIC BAS	SE HEATER 'EBH-13'	30
KERS SPA	CE	20 A	1	720 VA	750 VA					1	20 A	ELECTRIC BAS	SE HEATER 'EBH-14'	32
EL - MAKE	RS SPACE	20 A	1			1875 VA	0 VA			1	20 A	SPARE		34
EL - MAKE	RS SPACE	20 A	1					1875 VA	0 VA	1	20 A	SPARE		36
EL - MAKE	RS SPACE	20 A	1	1875 VA	0 VA					1	20 A	SPARE		38
- CAFE		20 A	1			1000 VA	0 VA			1	20 A	SPARE		40
FE		20 A	1					680 VA	0 VA	1	20 A	SPARE		42
	), CORRIDOR		1	720 VA	0 VA					1		SPARE		44
RYER	,,	20 A	1			1500 VA	0 VA			1		SPARE		46
RYER		20 A	1				• • • •	1500 VA	0 VA	1		SPARE		48
	TORAGE,	20 A	1	900 VA	0 VA				• • • •	1		SPARE		50
	- KITCHEN	20 A	1			1000 VA	0 VA			1		SPARE		52
	- KITCHEN	20 A	1			1000 1/1	0 171	1000 VA	0 VA	1		SPARE		54
FRIGERAT		20 A	1	180 VA	0 VA			1000 171	0 1/1	1		SPARE		56
ORS - VES		20 A	1	100 VA		1000 VA	0 VA			1		SPARE		58
ORS - VES	_	20 A	1			1000 VA		1000 VA		1		SPACE		60
IEATER	HBOLL	20 A	1	500 VA				1000 VA		1		SPACE		62
	RM	20 A	1	300 VA		720 VA				1		SPACE		64
		20 A	1			720 VA		500 VA		1		SPACE		66
FILLING ST		20 A	1	500 VA				500 VA		1		SPACE		68
-1'	ATION	20 A	1	500 VA		2352 VA				1		SPACE		70
		20 A	1			2352 VA		500 VA		1		SPACE		70
		20 A	I					500 VA		I		SFACE		12
ion	Connected Lo	bad	Dema	nd Facto	r Der	nand Loa	ad	Comme	ents			Panel	Totals	
	7081 VA			25.00%		3851 VA				Panel Totals Total Connected Load: 48871 VA				
	11260 VA			4.40%		0630 VA						Demand Load:		
	2000 VA			)0.00% )0.00%		2000 VA				Total		ected Current:		
28545 VA						8545 VA	1			<b>T</b>	tol Dr.	mand Current:	120 1	

CKT         1         3       PAN         5       7         9       PAN         11       11         13       15         15       COI         17       19         21       COI         23       25         27       COI         29       31	Location: M Supply From: Si Mounting: Si Descripti ANEL 'RPA' ANEL 'RPB' ONDENSING UNI	ERVICE DISCON urface ion Γ 'CU-1'	INECT Trip 225 A 225 A 90 A 40 A	Pol 3 3 3	14957 15649 6957 VA	<b>A</b> 2435 VA 552 VA	15170 17759	3 4 <b>3</b>		C 2435 VA 552 VA	<b>Pol</b> 3	Ma M Trip 25 A		00 A ILO escription NG UNIT 'AHU-1'	<b>CKT</b> 2 4 6 8 10									
CKT         1         3         5         7         9         11         13         15         15         17         19         21         23         25         27         29         31         33	Mounting: S Descripti	urface ion Γ 'CU-1'	Trip           225 A           225 A           90 A	3 3 3	14957 15649 6957 VA	<b>4</b> 2435 VA 552 VA	Wires: 6	4 <b>3</b> 2435 VA	11216	2435 VA	3	M Trip 25 A	AIR HANDLI	ILO escription NG UNIT 'AHU-1'	2 4 6 8									
1         PAN           5         PAN           7         PAN           9         PAN           11         PAN           13         COI           15         COI           17         P           21         COI           23         COI           25         COI           27         COI           29         31           33         COI	Descripti	ion Γ 'CU-1'	225 A 225 A 90 A	3 3 3	14957 15649 6957 VA	2435 VA 552 VA	15170 17759	<b>3</b> 2435 VA	11216	2435 VA	3	<b>Trip</b> 25 A	De AIR HANDLII	escription NG UNIT 'AHU-1'	2 4 6 8									
1         A           3         PAN           5         PAN           7         PAN           11         PAN           13         COI           15         COI           17         PAN           19         COI           21         COI           23         COI           25         COI           27         COI           29         31           33         COI	ANEL 'RPA' ANEL 'RPB' ONDENSING UNI	Г 'СՍ-1'	225 A 225 A 90 A	3 3 3	14957 15649 6957 VA	2435 VA 552 VA	15170 17759	2435 VA	11216	2435 VA	3	25 A		NG UNIT 'AHU-1'	2 4 6 8									
3         PAN           5         7           9         PAN           11         13           15         COI           17         19           21         COI           23         25           27         COI           31         33	ANEL 'RPB'		225 A 90 A	3	15649 6957 VA	552 VA	15170 17759		11216						4 6 8									
5           7           9           11           13           15           17           19           21           23           25           27           29           31           33	ANEL 'RPB'		225 A 90 A	3	6957 VA		17759		11216						6 8									
7         9           9         PAN           11         13           15         COI           17         19           21         COI           23         25           27         COI           29         31           33         COI	ONDENSING UNI		90 A	3	6957 VA			552 VA			3	15 A		NG UNIT 'AHU-2'	8									
9         PAN           11         11           13         COI           15         COI           17         20           21         COI           23         COI           25         COI           27         COI           29         31           33         COI	ONDENSING UNI		90 A	3	6957 VA			552 VA	15464	552 \/A	3	15 A	AIR HANDLI	NG UNIT 'AHU-2'										
11       13       15       17       19       21       23       25       27       29       31       33	ONDENSING UNI		90 A	3		552 VA		552 VA	15464	552 VA	3	15 A	AIR HANDLI	NG UNIT 'AHU-2'										
13         COI           15         COI           17         COI           21         COI           23         COI           25         COI           27         COI           29         COI           33         COI						552 VA			15464	557 VA	1		1	AIR HANDLING UNIT 'AHU-2'										
15     COI       17     19       21     COI       23     25       27     COI       29     31       33     COI						552 VA				552 VA				12 14										
17       19       21     COI       23       25       27     COI       29       31       33     COI					2200.1/4		6057 \/A	552 VA			3	15 A	AIR HANDLING UN		14									
19         COI           21         COI           23         COI           25         COI           27         COI           29         31           33         COI	ONDENSING UNI	Г 'CU-2'	40 A	2	2200.1/4		0937 VA	552 VA	6957 VA	552 VA	3	15 A	AIRTIANDEING ONT AIR-S		18									
21 COI 23 25 27 COI 29 31 33 COI	ONDENSING UNI	T 'CU-2'	40 A	2	LZDBB VA	552 VA				002 11					20									
23 25 27 29 31 33 COI				3	2000 111		2399 VA	552 VA			3 15 A	15 A	AIR HANDLI	NG UNIT 'AHU-4'	22									
27 COI 29 31 33 COI									2399 VA	552 VA					24									
29 31 33 COI					2399 VA								SPACE		26									
31 33 COI	ONDENSING UNI	SING UNIT 'CU-3'		3	3	3		2399 VA							3	28								
33 COI									2399 VA					30										
					2399 VA												32							
35	ONDENSING UNI	DENSING UNIT 'CU-4'		3	3	3	3	3	3	3	3	3	3			2399 VA				3		SPACE		34
									2399 VA						36									
37															38									
	PACE			3	3	3							3		SPACE		40							
41													_		42									
oad Clas	oad Classification Connected Load D				Demand Factor Demand Load Comments						Panel Totals													
ighting			VA	1:	25.00%	1	1445 VA				Total Conne		nected Load:	144940 VA										
Receptacle		27370	VA	6	68.27%	1	8685 VA					Total Demand Load: 138540 VA		138540 VA										
		56727	VA	100.00%		5	6727 VA					otal Connected Current: 402 A												
Other		51700			00.00%		1700 VA		-		Total Demand Current:			385 A										

	Location: MECH 201 Supply From: DPA Mounting: Surface		1			Voltage: Phases: Wires:	-		A.I.C. Rating: 10 KAIC Mains Rating: 225 A Mains Type: MLO						
скт	Description	Trip	Pol		4	E	3	C	2	Pol	Trip	Des	scription	скт	
1	REC - WORK ROOM	20 A	1	680 VA	360 VA					1	20 A	OPAC SCREEN		2	
3	REC - WORK ROOM	20 A	1			1000 VA	1200 VA			1	20 A	ELECTRIC BAS	E HEATER 'EBH-1'	4	
5	REC - WORK ROOM	20 A	1					1000 VA	1050 VA	1	20 A	ELECTRIC BAS	E HEATER 'EBH-2'	6	
7	REC - WORK ROOM	20 A	1	1000 VA	1050 VA					1	20 A	ELECTRIC BAS	E HEATER 'EBH-3'	8	
9	REC - WORK ROOM, FAM TLT,	20 A	1			1080 VA	1200 VA			1	20 A	ELECTRIC BAS	E HEATER 'EBH-4'	10	
11	REFRIGERATOR - LOCKER RM	20 A	1					500 VA	1050 VA	1	20 A	ELECTRIC BAS	E HEATER 'EBH-5'	12	
13	REC - LOCKER RM	20 A	1	540 VA	1200 VA					1	20 A	ELECTRIC BAS	E HEATER 'EBH-6'	14	
15	GAMING STATION - TEENS	20 A	1			750 VA	1200 VA			1	20 A	ELECTRIC BAS	E HEATER 'EBH-7'	16	
17	GAMING STATION - TEENS	20 A	1					750 VA	750 VA	1	20 A	ELECTRIC BAS	E HEATER 'EBH-8'	18	
19	GAMING STATION - TEENS	20 A	1	750 VA	1500 VA					1	20 A	ELECTRIC BAS	E HEATER 'EBH-9'	20	
21	REC - COMPUTER, OFFICE 122	20 A	1			900 VA	0 VA			1	20 A	SPARE		22	
23	PRINTER - COMPUTER RM	20 A	1					180 VA	0 VA	1	20 A	SPARE		24	
25	DATA RACK - IT ROOM	20 A	1	720 VA	0 VA					1	20 A	SPARE		26	
27	REC - COMPUTER, MEETING,	20 A	1			1260 VA	0 VA			1	20 A	SPARE		28	
29	TV - MEETING AREA	20 A	1					360 VA	0 VA	1	20 A	SPARE		30	
31	FLOOR BOX - COMPUTER	20 A	1	1080 VA	0 VA					1	20 A	SPARE		32	
33	FLOOR BOX - COMPUTER	20 A	1			1080 VA	0 VA			1	20 A	SPARE		34	
35	FLOOR BOX - RECEPTION	20 A	1					1080 VA	0 VA	1	20 A	SPARE		36	
37	FLOOR BOX - RECEPTION	20 A	1	1080 VA	0 VA					1	20 A	SPARE		38	
39	REC - LIBRARY, EXTERIOR	20 A	1			1260 VA	0 VA			1	-	SPARE		40	
41	REC - LIBRARY	20 A	1					720 VA	0 VA	1	20 A	SPARE		42	
43	FLOOR BOX - LIBRARY	20 A	1	1080 VA	0 VA			120 171	0 1/1	1		SPARE		44	
45	FLOOR BOX - LIBRARY	20 A	1	1000 17	0 1/1	1080 VA	0 VA			1		SPARE		46	
47	REC - LOUNGE, LIBRARY	20 A	1			1000 171	0 1/1	900 VA		1		SPACE		48	
49	TV - LOUNGE	20 A	1	360 VA				500 VA		1		SPACE		50	
51	FIRE PLACE	20 A	1	000 VA		500 VA				1		SPACE		52	
53	LTG - LIBRARY, LOUNGE,	20 A	1			300 VA		756 VA		1		SPACE		54	
55	LTG - COMP, TEENS, WORK RM		· ·	1397 VA				100 VA		1		SPACE		56	
57	EXHAUST FAN 'EF-1'	20 A		1397 VA		500 VA				1		SPACE		58	
59	EXHAUST FAN 'EF-2'	20 A				500 VA		500 VA		1		SPACE		60	
	FLOOR BOX - COMPUTER	20 A		1080 VA				500 VA		1		SPACE		62	
61				1000 VA		1090 \/A				1					
63	FLOOR BOX - COMPUTER	20 A				1080 VA		540 VA		1		SPACE		64	
65	REC - TEENS	20 A		1000 \/A				540 VA		1		SPACE		66	
67	FLOOR BOX - TEENS	20 A		1080 VA		1000 \/A						SPACE		68	
69	FLOOR BOX - TEENS	20 A				1080 VA		1000 \/A		1		SPACE		70	
71	FLOOR BOX - LIBRARY SEATING	6 20 A	1					1080 VA				SPACE		72	
.oad	Classification Connected	Load	Dema	and Facto	r Dei	mand Loa	ad	Comme	ents			Panel 1	otals		
.ightir	ng 2078 V.	4	1	25.00%		2598 VA				Тс	otal Co	onnected Load:	41343 VA		
Recep	tacle 16110 V	A	8	31.04%	1	3055 VA					Total	Demand Load:	38808 VA		
/otor	0 VA			0.00%		0 VA				Tota	Conn	ected Current:	115 A		
Other	23155 V	A		00.00%	2	3155 VA				Тс	tal De	mand Current:	108 A		

Fort Wayne Benton Harbor Manistee South Haven South Bend	Valparaiso Engineering, Architecture, Land Surveying							
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PANEL SCHEDULES, ONELINE DIAGRAM, & DETAILS								
HEE HEE MODELED BY:								
MW DESIGNED BY: KM PM REVIEW:								
PM REVIEW: ARD, MDN QA/QC REVIEW: KM								
KM DATE: 2023.12.20 SEAL:								
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	LIGHT FIXTURE SCHEDULE										
OL		MPS	MANUFACTURER	MTG.	REMARKS						
	WATTS	TYPE									
	125 W	LED	LITHONIA: DSX1 LED P3 30K 70CRI T2M MVOLT SPA PIR DBLXD OR EQUIVALENT POLE: SSS 5C DM19AS DBLXD	18'-0 POLE W/ 2' BASE	TYPE 2 DISTRIBUTION.						
	125 W	LED	LITHONIA: DSX1 LED P3 30K 70CRI T4M MVOLT SPA PIR DBLXD OR EQUIVALENT POLE: SSS 5C DM19AS DBLXD	18'-0 POLE W/ 2' BASE	TYPE 4, FORWARD THROW DISTRIBUTION.						
	125 W	LED	LITHONIA: DSX1 LED P3 30K 70CRI T5W MVOLT SPA PIR DBLXD OR EQUIVALENT POLE: SSS 5C DM19AS DBLXD	18'-0 POLE W/ 2' BASE	TYPE 5 DISTRIBUTION.						
Į	50 W	LED	OMERO: MRP LED 42C 530 30K SR2 MVOLT DBLXD OR EQUIVALENT POLE: RSAO 10 4C PT DBLXD	10'-0" POLE W/ 6" BASE	SHORT POLE.						
]	15 W	LED	LITHONIA: OLBS 8 30K DDB OR EQUIVALENT	ON GRADE	LED BULLET FLOOD LIGHT.						

