

NEW CAR WASH BUILDING FOR: STARWASH EXPRESS

925 Lockwood Blvd
Oviedo, FL 32765

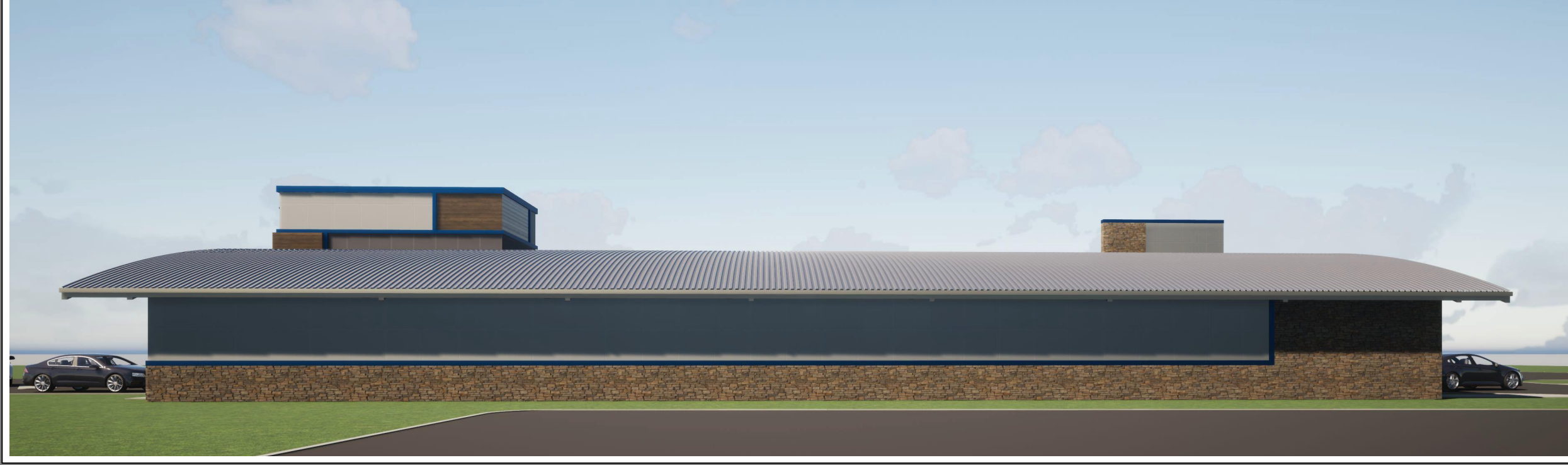


modernwash
5220 Scottsville Road
Bowling Green, KY 42104
Office - 1.800.511.7208

Model:
Apex Tower
PLOT DATE: MONDAY, APRIL 4, 2022



THESE DRAWINGS HAVE BEEN REVIEWED AND APPROVED ON THIS DATE OF _____ I UNDERSTAND MATERIALS WILL BE ORDERED BASED ON THIS SET OF DRAWINGS AND THAT CHANGES OR MODIFICATIONS AFTER THIS DATE WILL CONSTITUTE ADDITIONAL FEES BASED ON SAID CHANGE.
INITIAL: _____
SIGNATURE: _____
DATE: _____



PROJECT CONTACTS: FIRM, FIRM'S CONTACT, ADDRESS, PHONE

OWNER
STARWASH EXPRESS, LLC
ANDREY SHALAUROV
2500 HEATHCOTE LN
APEX, NC 27502

PROJECT ADMINISTRATOR
CSRE
PAUL GLOBOKAR
950 MAIN AVE, SUITE 200
CLEVELAND, OH 44113
216-244-8641

CIVIL
CS&S INC
GARRETT GEORGE
1323 BROOKHAVEN DR
ORLANDO, FL 32803
321-193-4889

ARCH
ERIC HATHAWAY ARCHITECT
ERIC HATHAWAY
5220 SCOTTSDALE RD
BOWLING GREEN, KY 42104
800-511-7208

STRUCTURAL
SE ENGINEERING
DONALD STONEBURG
1733 CAMPUS PLAZA CT, STE 10
BOWLING GREEN, KY 42101
270-196-3952

MEP
SE ENGINEERING
DONALD STONEBURG
1733 CAMPUS PLAZA CT, STE 10
BOWLING GREEN, KY 42101
270-196-3952

PEEM
MODERNWASH
ERIC HATHAWAY
5220 SCOTTSDALE RD
BOWLING GREEN, KY 42104
800-511-7208

WASH EQUIPMENT
SONNY'S ENTERPRISES, LLC
CRAIG HANSON
5605 HAITUS RD
TAMARAC, FL 33321
434-531-0061

PROJECT MANAGEMENT
WASH EQUITY ADVISORS
JEFF GHEYSENS
8800 WATERCREST CIR EAST
FARKLAND, FL 33076
239-227-4718

GENERAL CONTRACTOR
TO BE DETERMINED

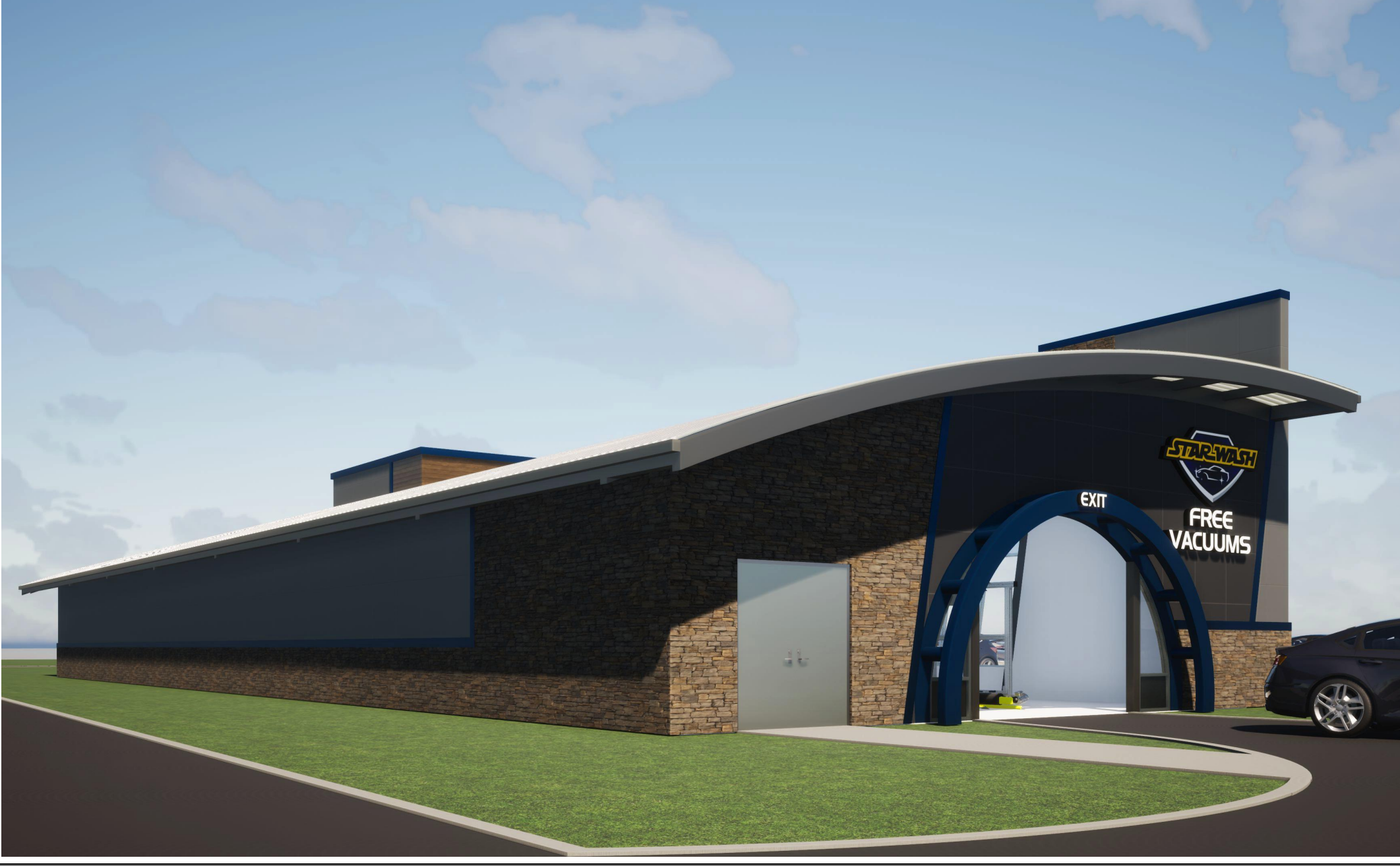
NOTE:
RENDERINGS ARE FOR REFERENCE ONLY. DESIGN MAY VARY. CONFIRM ALL DESIGN DETAILS WITH DRAWINGS.

MODERNWASH DRAWING INDEX

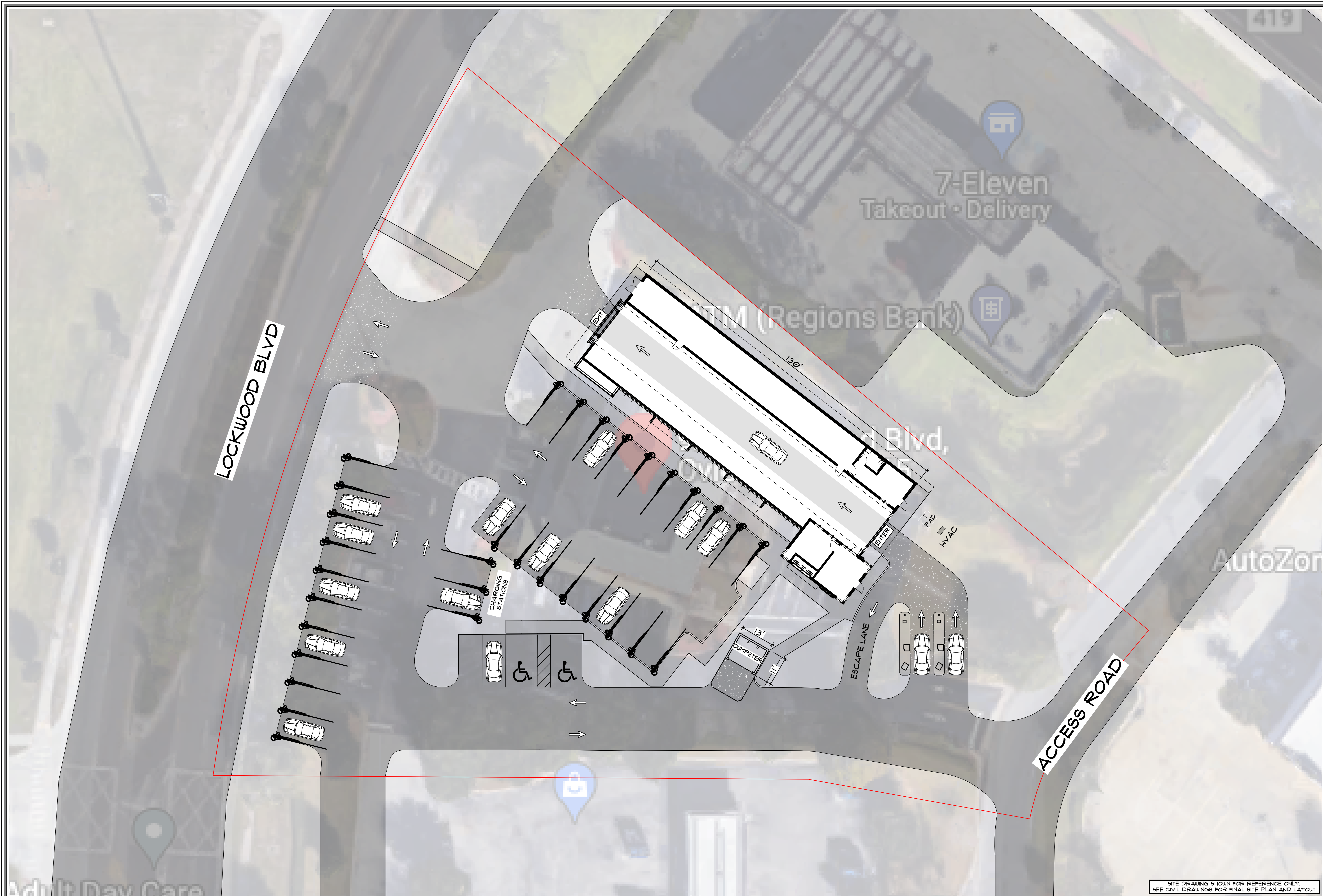
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GENERAL INFO		
MW-0.1	COVER SHEET	0
MW-0.2	GENERAL INFORMATION	0
MW-0.3	GENERAL INFORMATION	0
MW-0.4	GENERAL SITE PLAN	0
MW-0.5	LIFE SAFETY PLAN	0
FLOOR PLANS		
MW-1.1	1ST FLOOR PLAN	0
MW-1.2	2ND FLOOR PLAN	0
MW-1.3	LGM WALL PLACEMENT	0
MW-1.4	ROOF PANEL LAYOUT	0
REFLECTED CEILING PLANS		
MW-2.1	REFLECTED CEILING PLANS	0
ENLARGED PLANS		
MW-3.1	ENLARGED PLANS	0
MW-3.2	ENLARGED PLANS	0
ELEVATIONS		
MW-4.1	ELEVATIONS	0
MW-4.2	ELEVATIONS - COLOR	0
SECTIONS		
MW-5.1	SECTIONS	0
MW-5.2	SECTIONS	0
MW-5.3	SECTIONS	0
DETAILS		
MW-6.1	WALL TYPES	0
MW-6.2	WALL/SLAB TYPES	0
MW-6.3	2D/3D DETAILS	0
MW-6.4	2D/3D DETAILS	0
MW-6.5	DETAILS - PVC	0
SCHEDULES		
MW-7.1	SCHEDULES	0
MW-7.2	MATERIAL SPECS	0
MW-7.3	MATERIAL SPECS	0
MW-7.4	MATERIAL SPECS	0
OTHER		
MW-9.1	FLASHING/TRIM	0
MW-9.2	ACM LAYOUT	0
MW-9.3	ACM DETAILS	0
MW-9.4	ROOF PANELS	0

MW CONSULTANTS DRAWING INDEX

REV	ID	
MECHANICAL		
M-0.1	MECHANICAL NOTES	0
M-0.2	MECHANICAL LOAD CALCULATIONS	0
M-1.0	HVAC PLAN	0
ELECTRICAL		
E-0.1	ELECTRICAL NOTES & RISER	0
E-0.2	ELECTRICAL SCHEDULES	0
E-0.3	EQUIPMENT SCHEDULES	0
E-0.4	EQUIPMENT SCHEDULES	0
E-0.5	EQUIPMENT SCHEDULES	0
E-0.6	EQUIPMENT SCHEDULES	0
E-1.0	LIGHTING PLAN	0
E-1.1	POWER - BUILDING	0
E-1.2	POWER - EQUIPMENT LAYOUT	0
E-1.3	EQUIPMENT (120V-480V)	0
E-1.4	EQUIPMENT U.G. (120V-480V)	0
E-1.5	EQUIPMENT CONTROL VOLTAGE	0
E-1.6	EQUIPMENT CONTROL VOLTAGE	0
E-1.7	EQUIPMENT SIGNAGE	0
PLUMBING		
P-0.1	PLUMBING NOTES	0
P-1.0	WATER PLAN	0
P-1.1	PLUMBING EQMT ROOM ELEV.	0
P-1.2	DWY AND CHASE PLAN	0
P-1.3	DWY RISER DIAGRAM	0
STRUCTURAL		
S-0.1	STRUCTURAL NOTES	0
S-1.0	FOUNDATION PLAN	0
S-1.1	SLAB & TRENCH PLAN	0
S-2.0	STRUCTURAL DETAILS	0
S-2.1	TRENCH PLAN & LAYOUT	0
S-2.2	TRENCH DETAILS	0
S-3.0	COLUMN BASE PLATE & DETAILS	0
S-3.1	COLUMN LAYOUT PLAN	0
S-3.2	STEEL FRAMING PLAN	0
S-3.3	STEEL FRAMING PLAN	0
S-3.4	FRAMING SECTIONS	0
S-3.5	FRAMING SECTIONS	0
S-3.6	FRAMING MEMBERS	0
S-3.7	FRAMING DETAILS	0



SIGNAGE SHOWN IS FOR REFERENCE ONLY. FINAL SIGNAGE PERMITTED SEPARATELY.



LOCKWOOD BLVD

ACCESS ROAD

A SITE PLAN
SCALE: 1/16" = 1'-0"

SITE DRAWING SHOWN FOR REFERENCE ONLY.
SEE CIVIL DRAWINGS FOR FINAL SITE PLAN AND LAYOUT

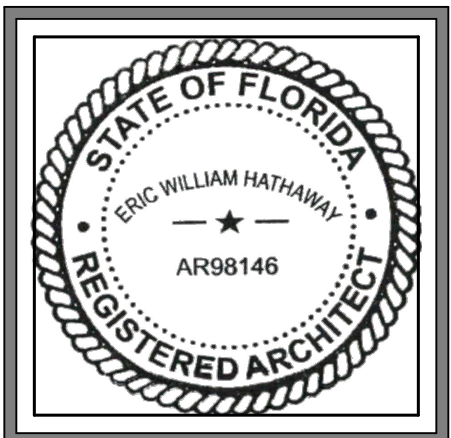
USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.

REVISIONS		
ID	DATE	DESCRIPTION
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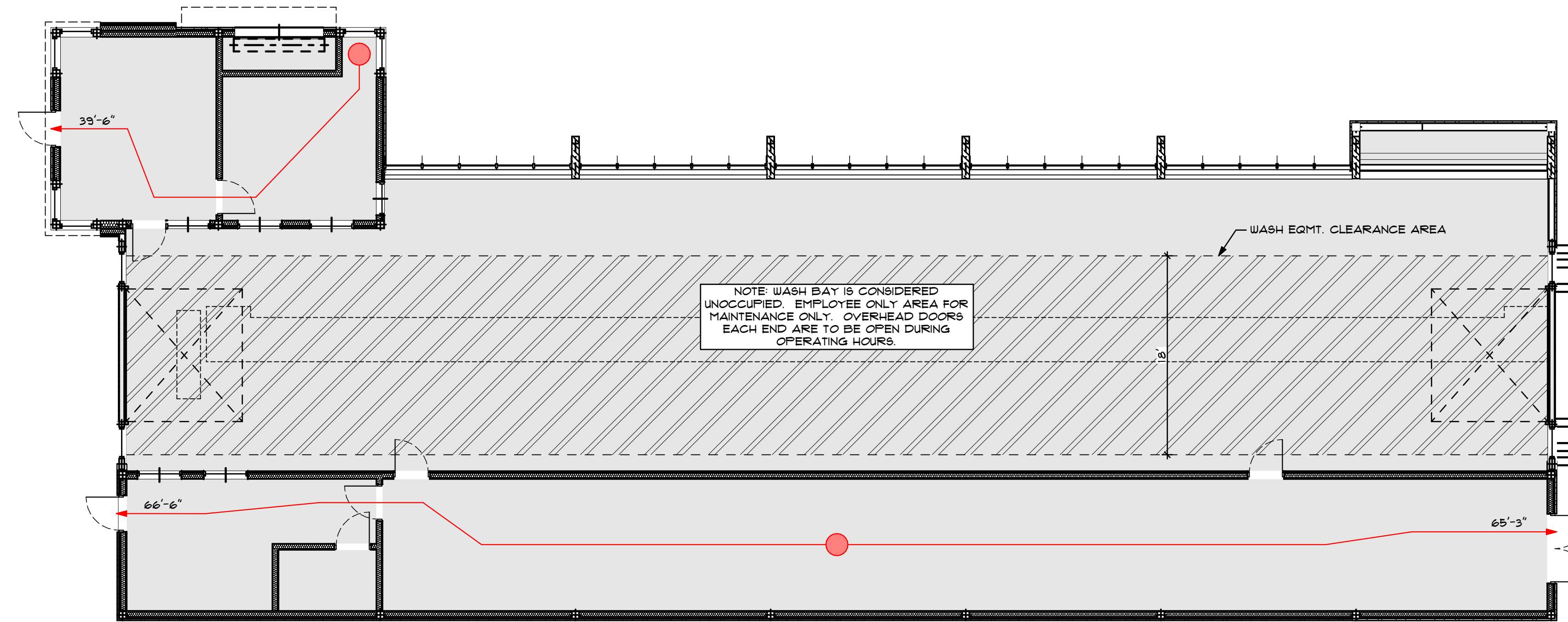
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 MODERNWASH INC. 2021/22. STATE WASH - OYIEDO, A.F.N.

modernwash
5220 Scottsville Road
Bowling Green, KY 42104
Model: Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OYIEDO, FL 32165



PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-0.4
GENERAL SITE PLAN



B LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

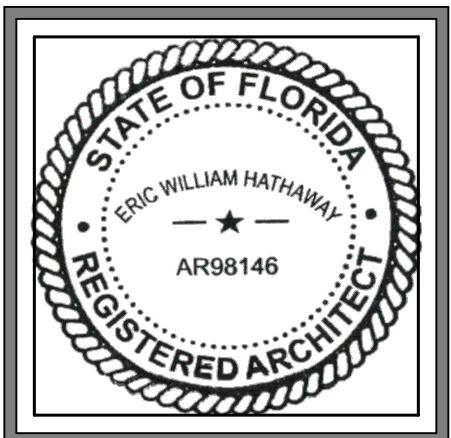
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D	DATE	DESCRIPTION
0	4/4/22	FOR PERMIT

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 MODERNWASH INC. 2021 175 STAR WASH - OYIEDO, FL, USA

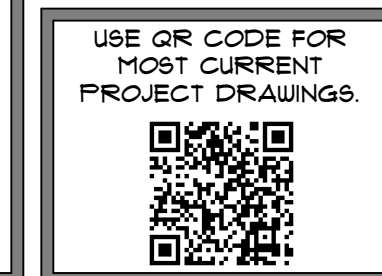
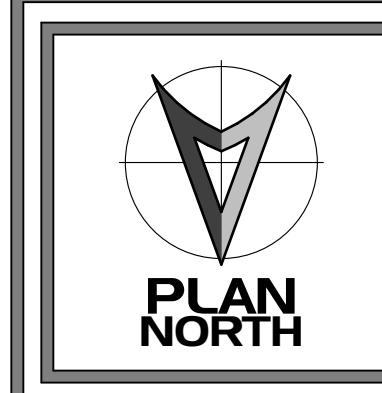


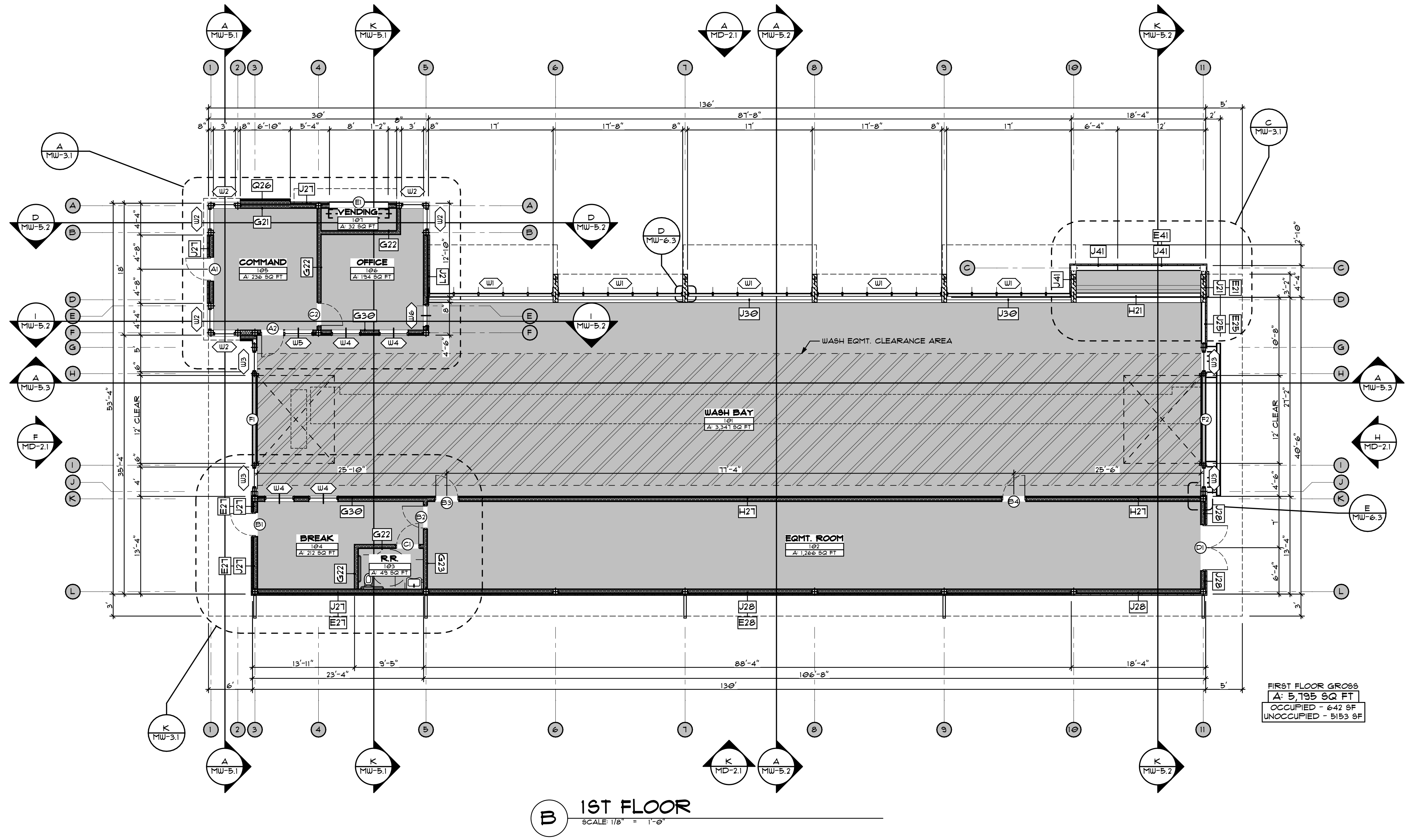
modernwash
5220 Scottsville Road
Bowling Green, KY 42104
Model:
Apex Tower

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STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OYIEDO, FL 32165

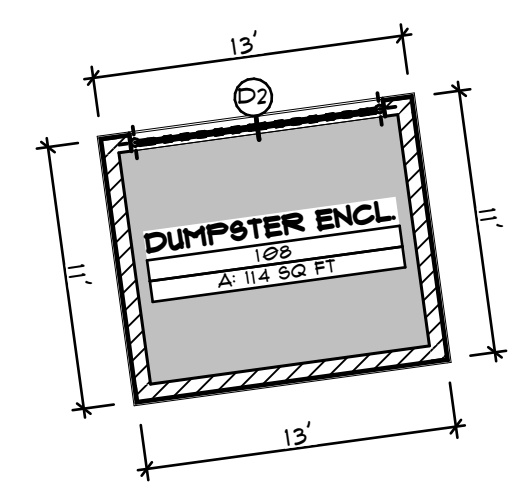


PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-0.5
LIFE SAFETY PLAN





FIRST FLOOR GROSS
 A: 5,195 SQ FT
 OCCUPIED - 642 SF
 UNOCCUPIED - 5153 SF



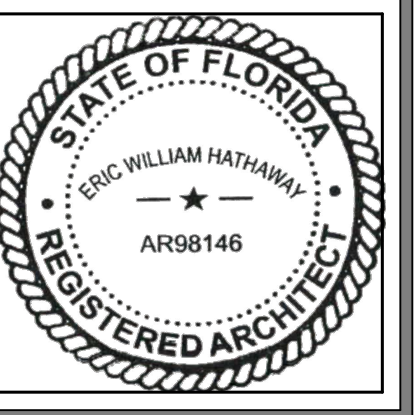
K DUMPSTER ENCLOSURE
 SCALE: 1/8" = 1'-0"

REVISIONS	
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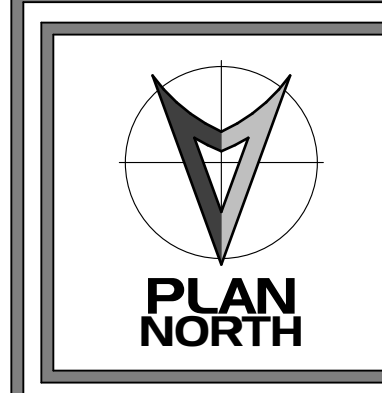
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 2021 175 STATE ROAD 1, OVIEDO, FL 32765

modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

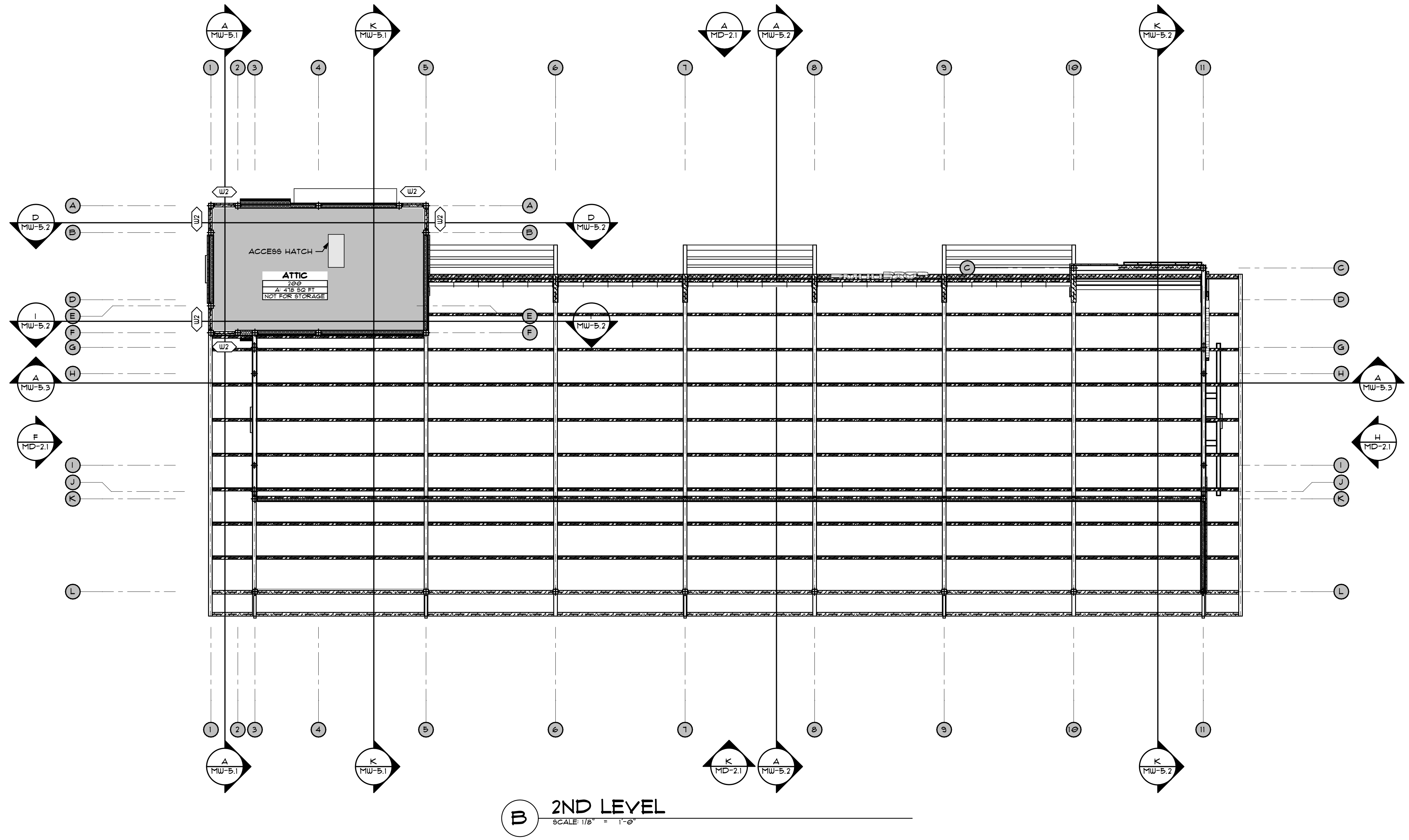
NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OVIEDO, FL 32765



PRELIMINARY	
DATE OF CREATION:	10/18/2021
PLOT DATE:	4/4/22
DRAWN BY:	EWJ, MJR
CHECKED BY:	EWJ
SHEET:	MW-1.1
1ST FLOOR PLAN	



USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.



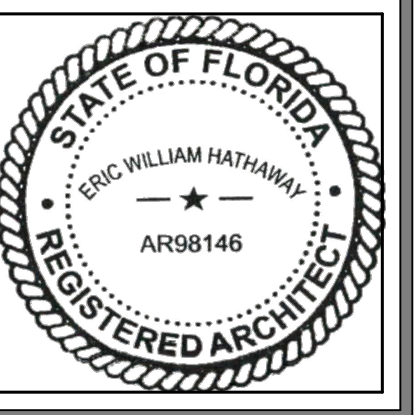
B 2ND LEVEL
SCALE: 1/8" = 1'-0"

REVISIONS	
NO.	DESCRIPTION
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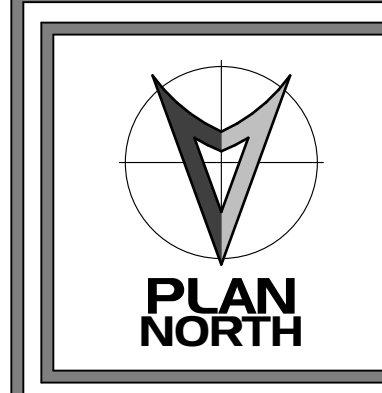
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 MODERNWASH INC. 2021/19, STATE WASH - OYIEDO, A.P.N.

modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

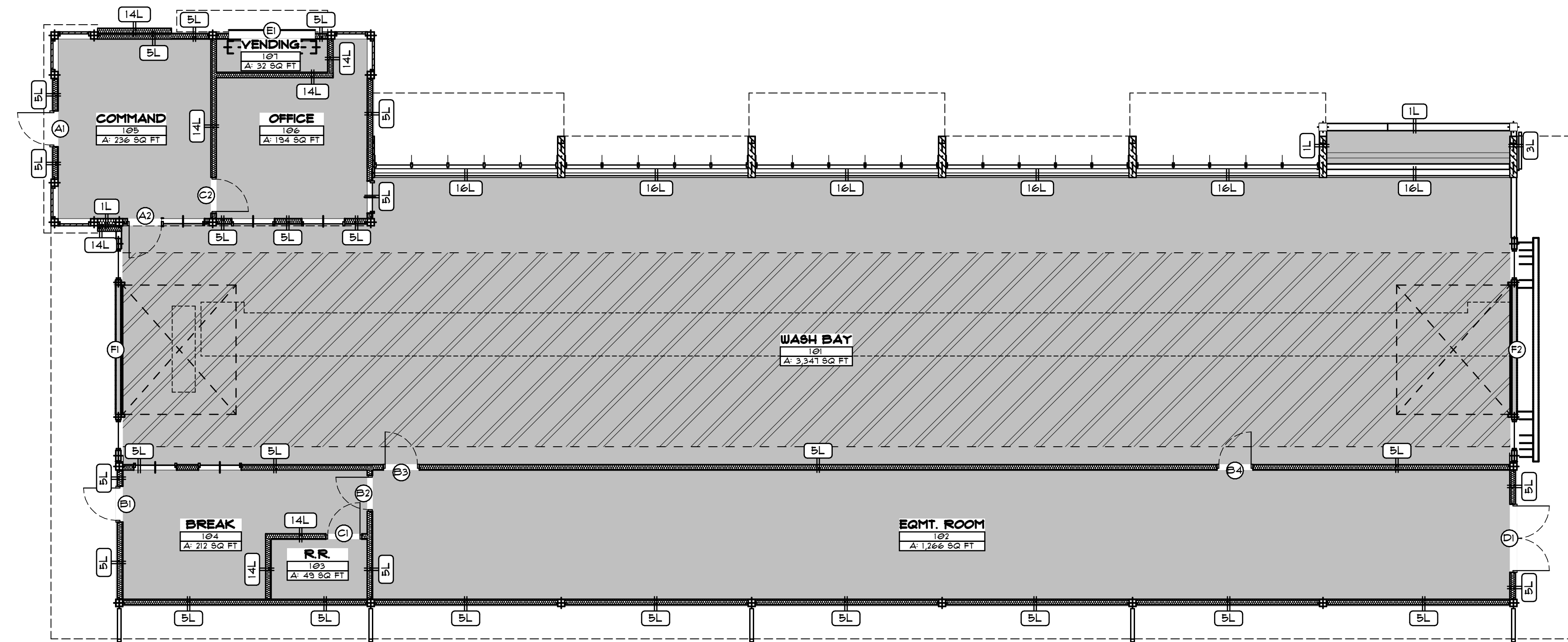
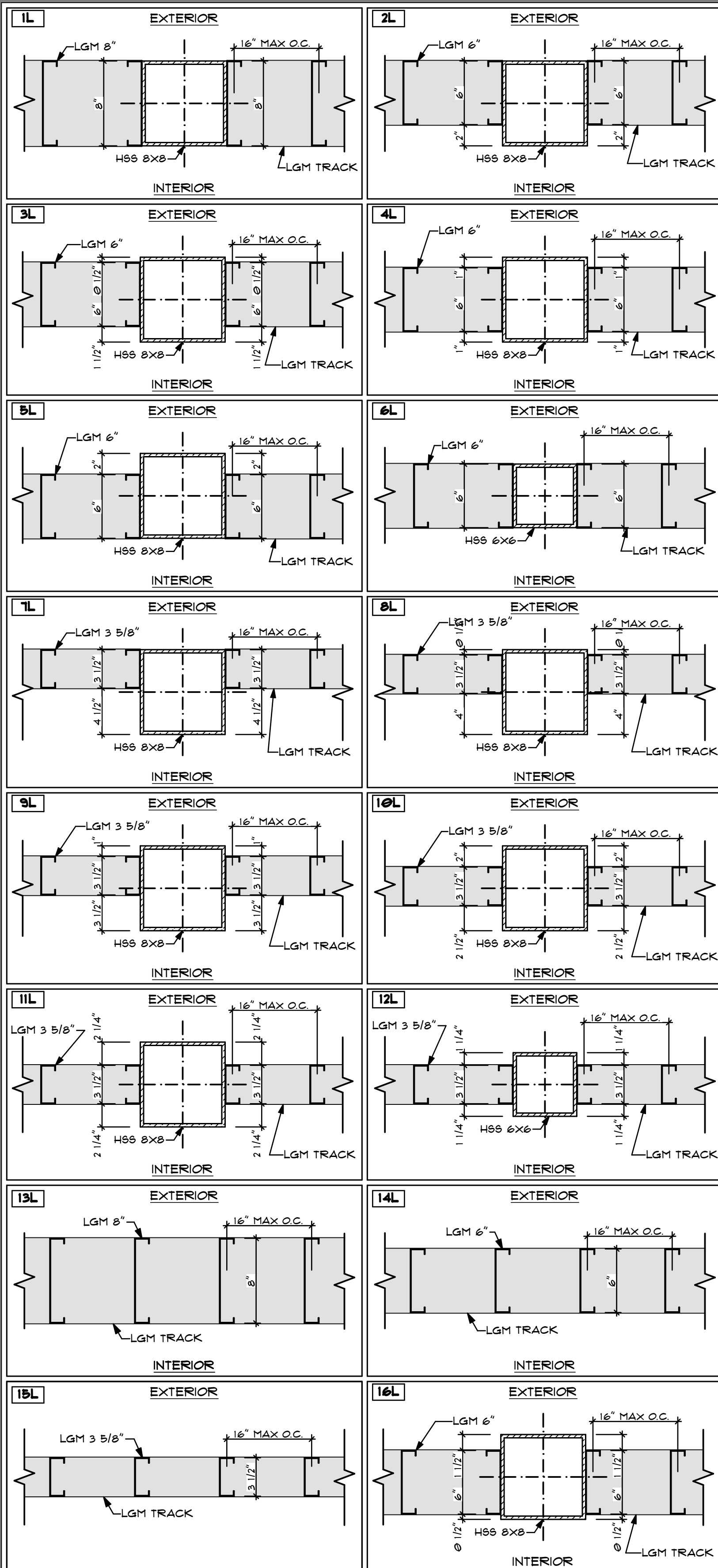
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 OYIEDO, FL 32165



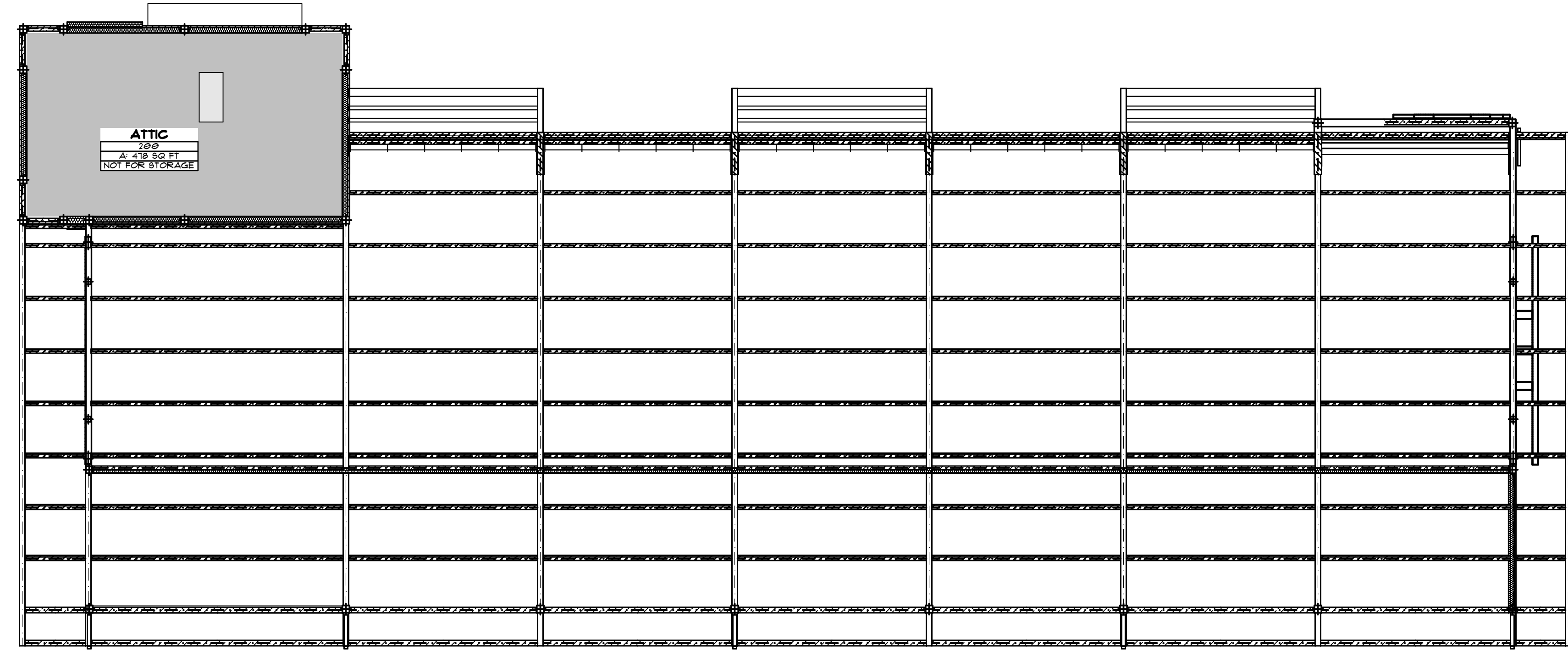
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DATE OF CREATION:	10/18/2021
PLOT DATE:	4/4/22
DRAWN BY:	EW, MJR
CHECKED BY:	EW
SHEET:	MW-1.2
2ND FLOOR PLAN	



USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.



B 1ST FLOOR LGM PLACEMENT
SCALE 1/8" = 1'-0"



G 2ND LEVEL LGM PLACEMENT
SCALE 1/8" = 1'-0"

NOTE:
INTERIOR BUILDING WALL PLACEMENT ASSUMES THE WASH BAY IS CONSIDERED TO BE THE EXTERIOR SIDE OF THE WALL. SHEATHING, FINISH, AND INSULATION IS NOT SHOWN FOR CLARITY. SEE WALL TYPE DETAILS FOR ACTUAL WALL COMPOSITION.

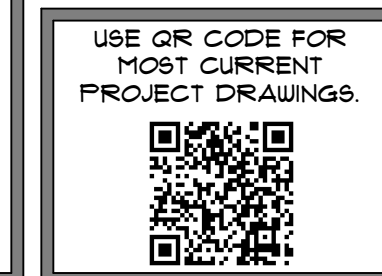
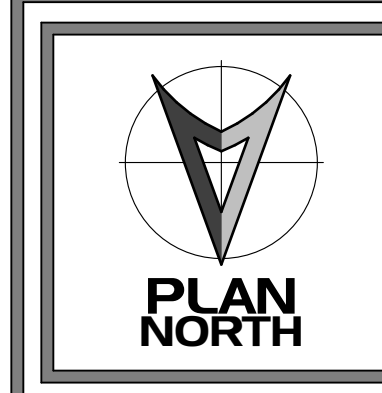
NO.	DATE	DESCRIPTION
1	4/1/22	FOR PERMIT

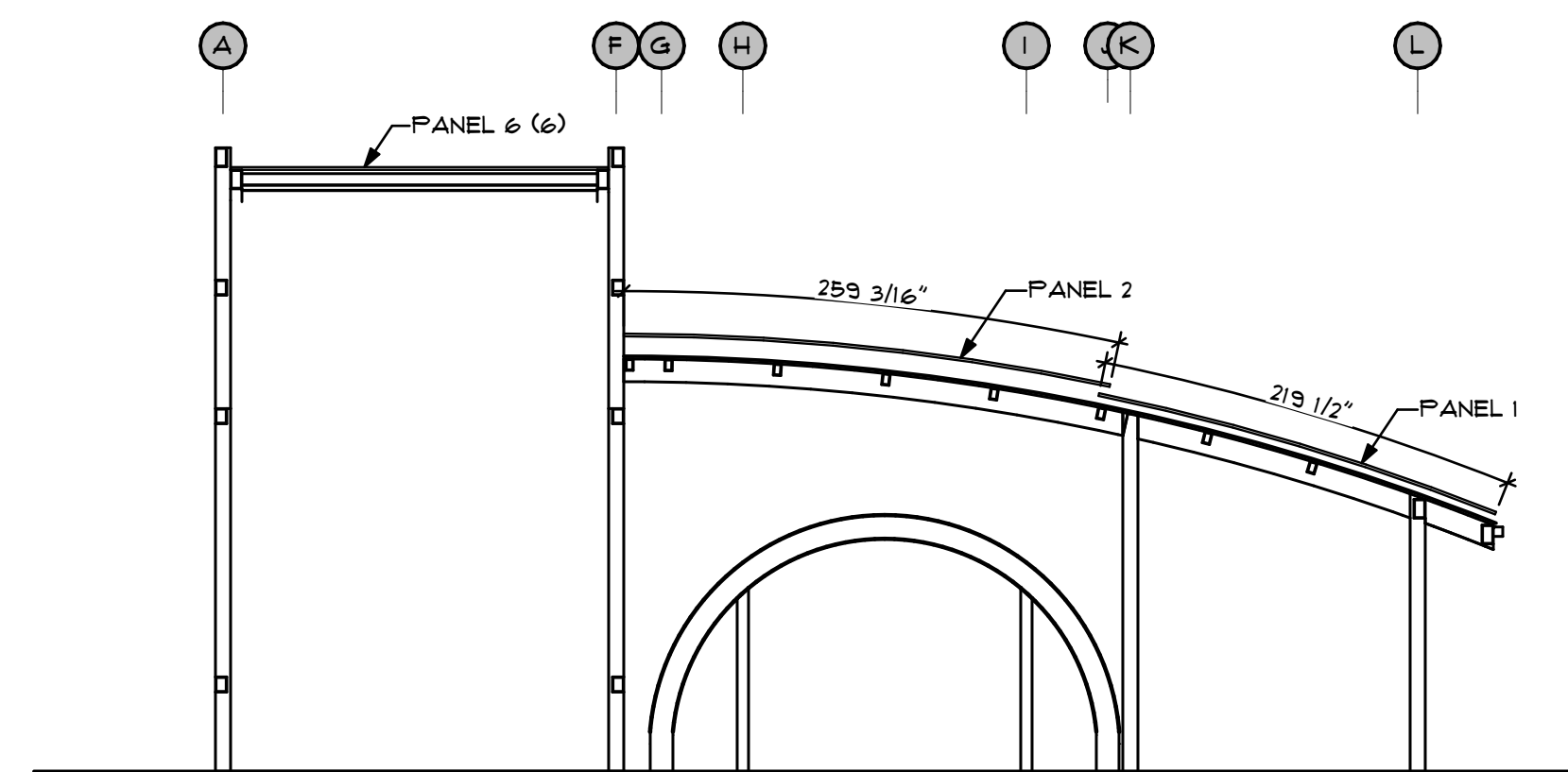
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300175 STAR WASH - OYIEDO, A, FLN

modernwash
5220 Scottsville Road
Bowling Green, KY 42104
Model:
Apex Tower

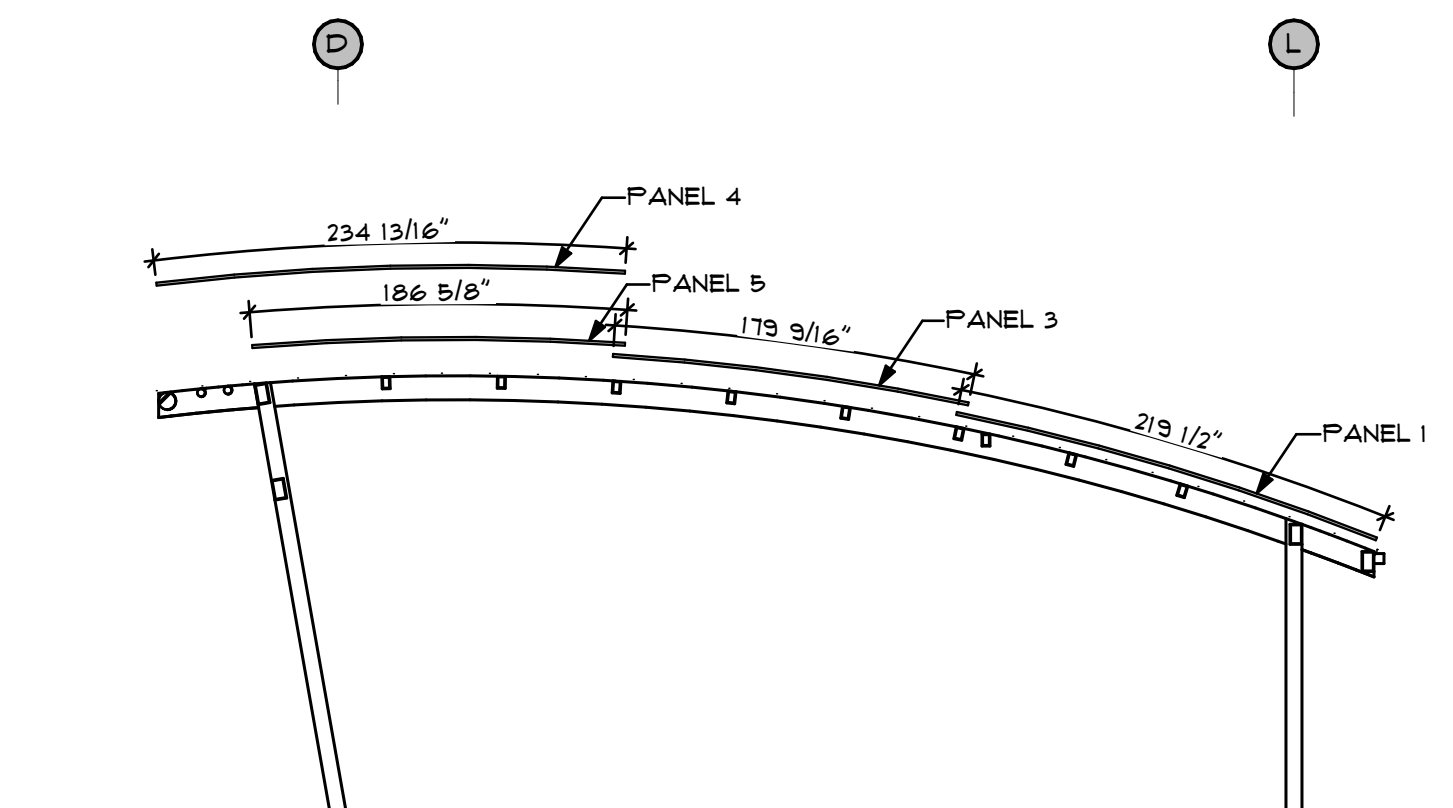
NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
925 LOCKWOOD BLVD
OYIEDO, FL 32165

PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-1.3 LGM WALL PLACEMENT

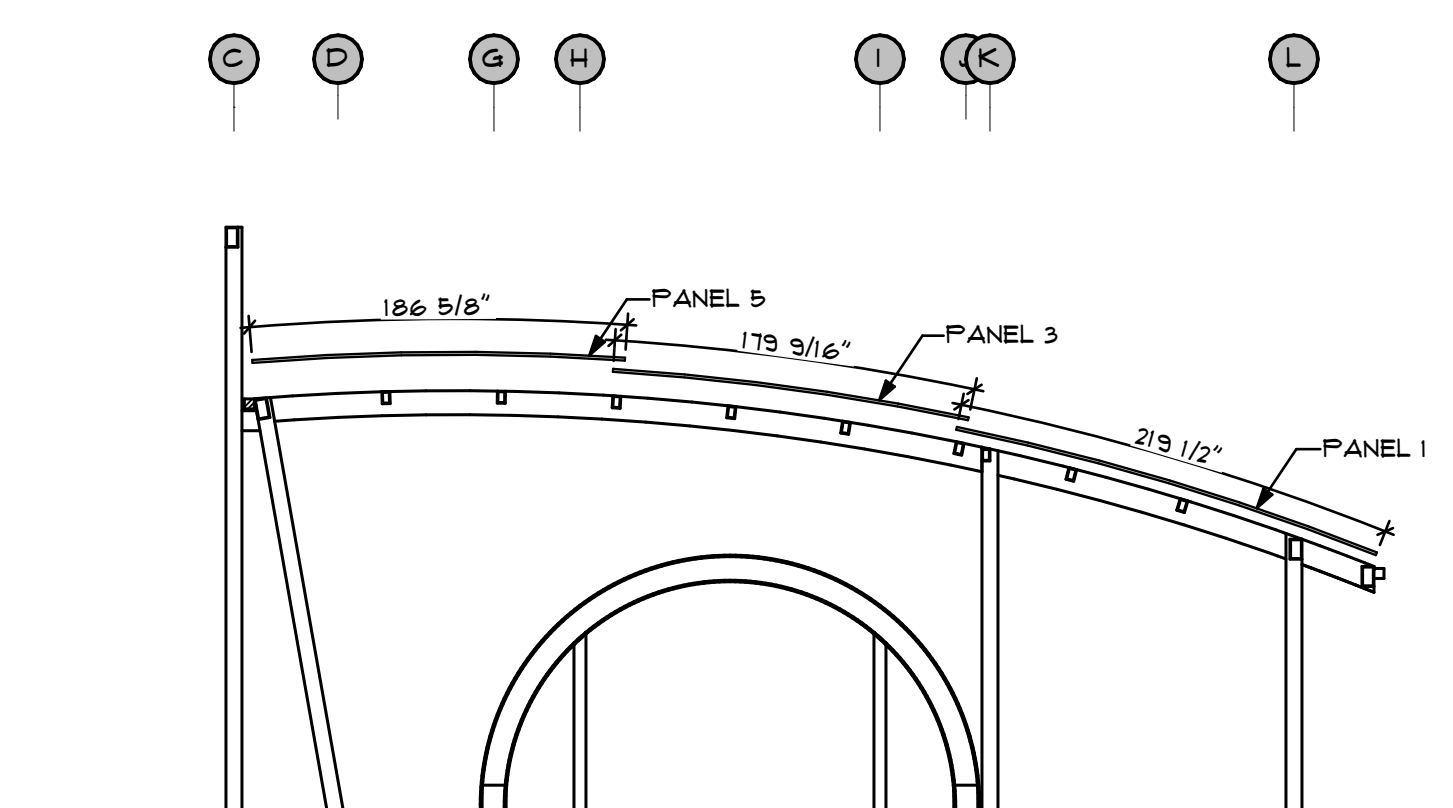




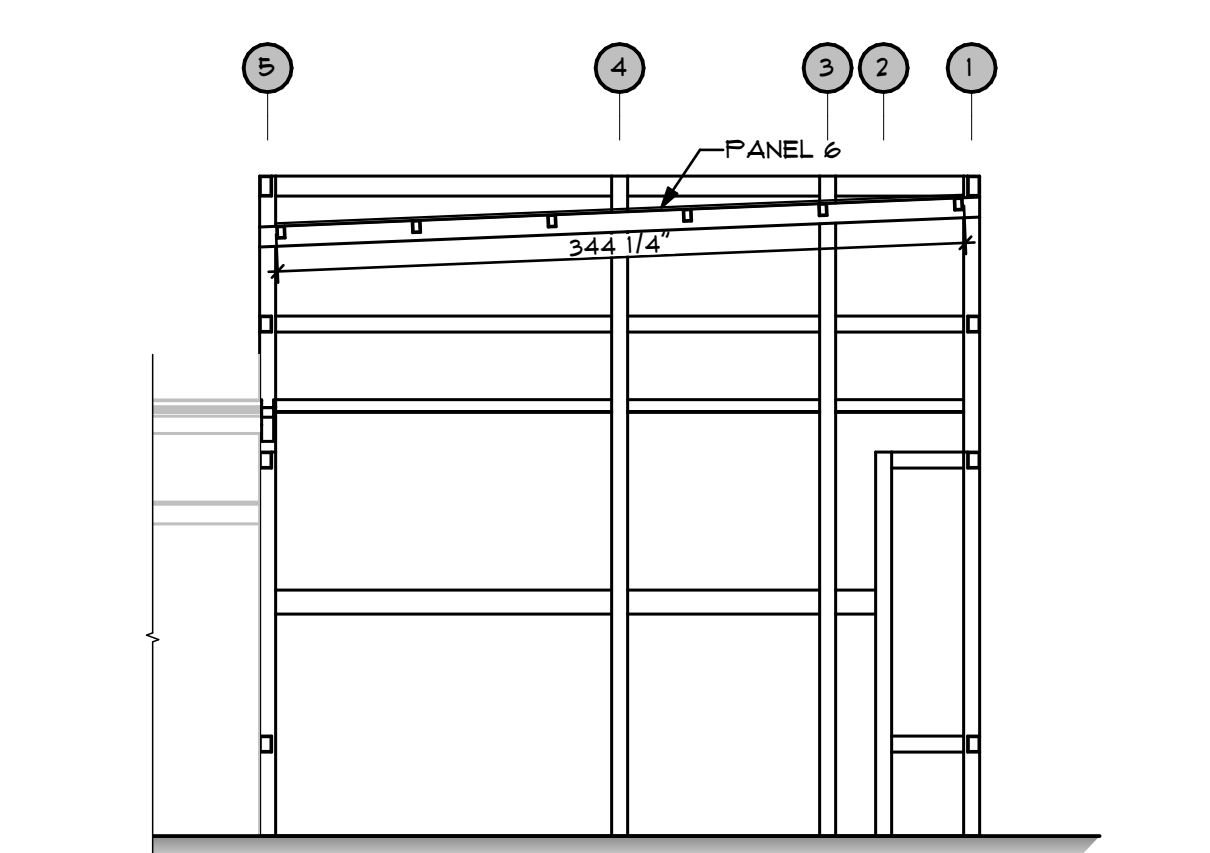
A SECTION
SCALE: 1/8" = 1'-0"



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

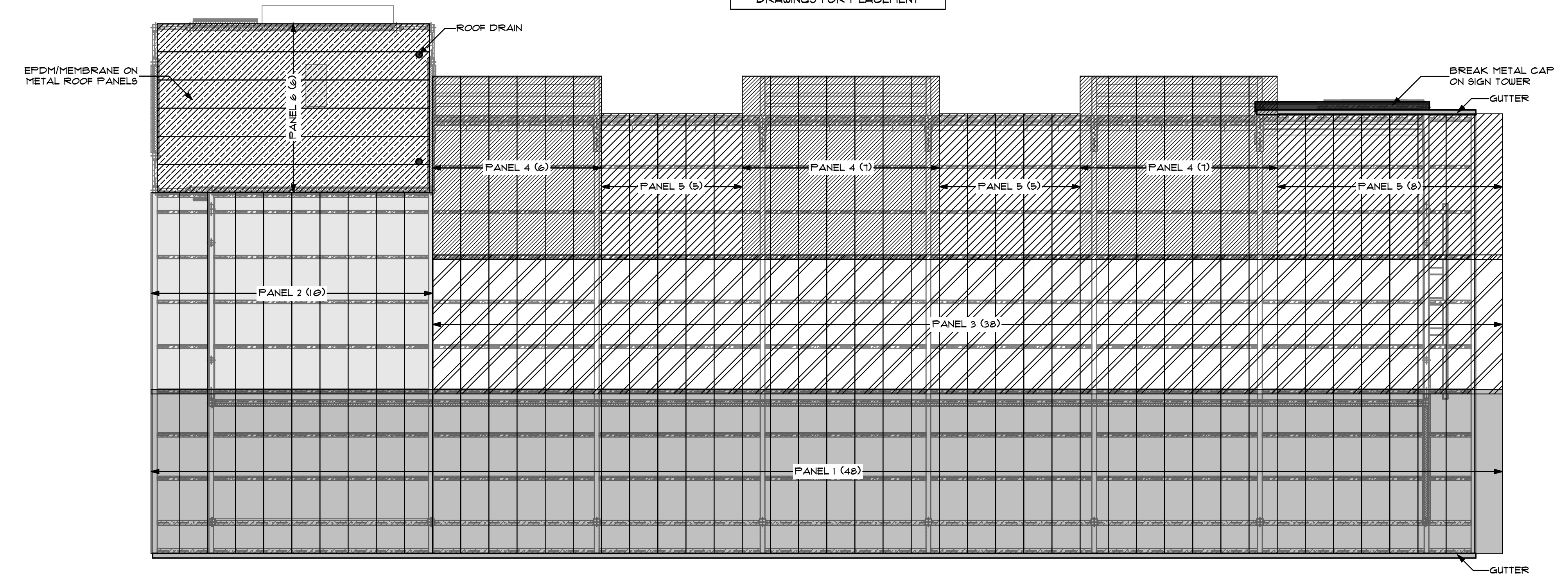


K SECTION
SCALE: 1/8" = 1'-0"



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

NOTE:
ALL EQUIPMENT IS TO BE GROUND MOUNTED
SEE MD-1.3 AND/OR CESO CIVIL DRAWINGS FOR PLACEMENT

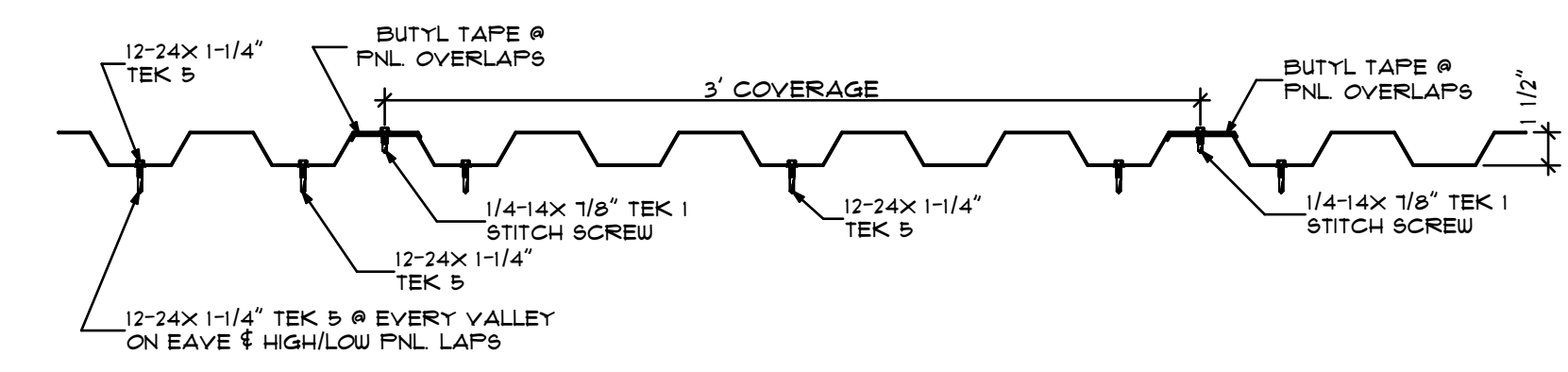
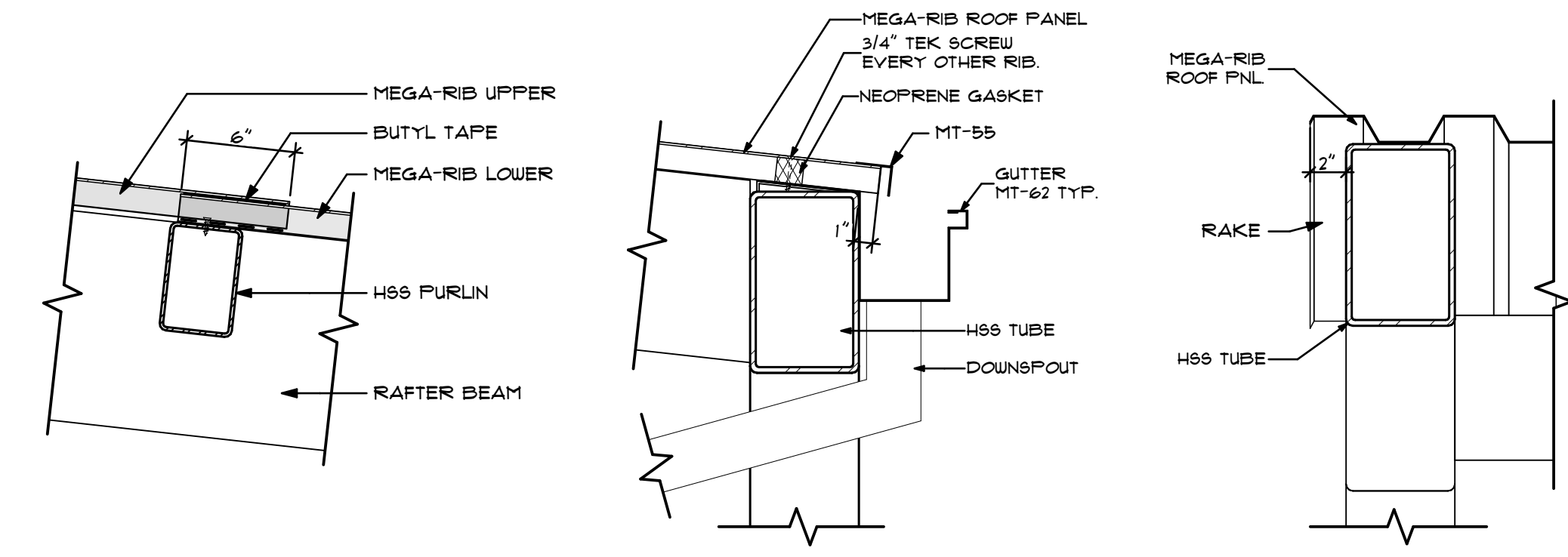


B ROOF PANEL LAYOUT
SCALE: 1/8" = 1'-0"

ROOF PANEL SCHEDULE:

NAME	#	LENGTH
PANEL 1	48	219 1/2"
PANEL 2	10	259 3/16"
PANEL 3	38	179 9/16"
PANEL 4	20	234 13/16"
PANEL 5	18	186 5/8"
PANEL 6	6	344 1/4"

NOTE:
1. ROOF PANELS EXTEND 1" AT CURVED ROOF HIGH & LOW EAVES.
2. OVERHANG PANEL EDGE 2" BEYOND STRUCTURE AT CURVED ROOF RAKE.
3. LOWER CURVED ROOF PANELS TO STOP AT TOP EDGE OF UPPER FURLIN PLACEMENT.
4. LAP UPPER PANEL 6".
5. BUTYL TAPE AND STITCH SCREWS AT ALL PANEL LAPS.



G ROOF PANEL DETAILS
SCALE: 1/12" = 1'-0"

REVISIONS

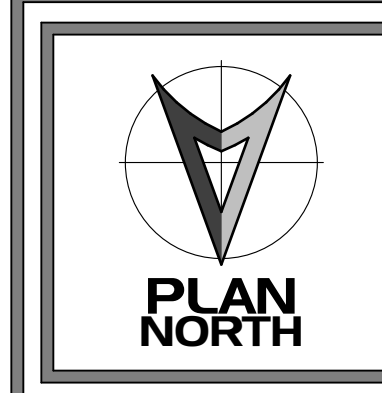
NO.	DATE	DESCRIPTION
1	4/1/22	FOR PERMIT

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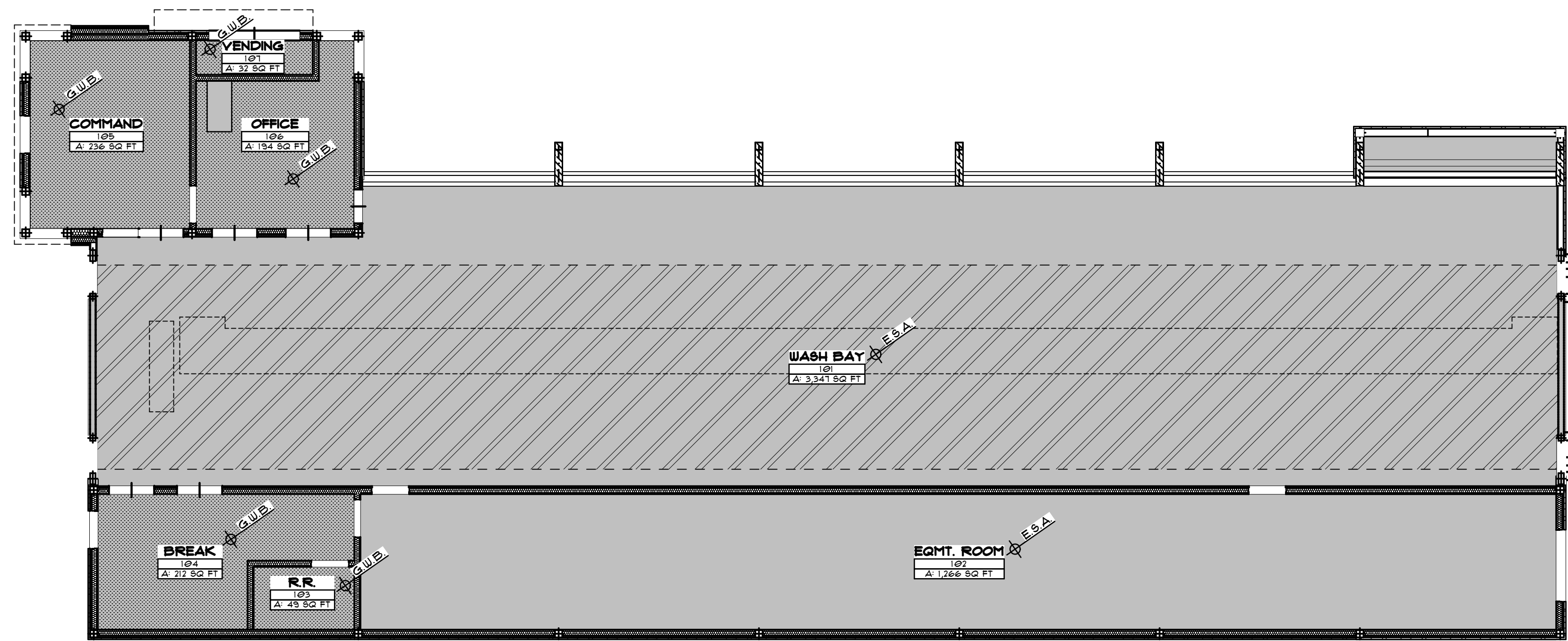
modernwash
5220 Scottsville Road
Bowling Green, KY 42104
Model:
Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
925 LOCKWOOD BLVD
OVIEDO, FL 32765

PRELIMINARY
DATE OF CREATION:
10/18/2021
PLOT DATE:
4/4/22
DRAWN BY:
EWH, MJR
CHECKED BY:
EWH
SHEET:
MW-1.4
ROOF PANEL LAYOUT



USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.



FIRST FLOOR GROSS
 A: 5,195 SQ FT
 OCCUPIED - 642 SF
 UNOCCUPIED - 5153 SF

B REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

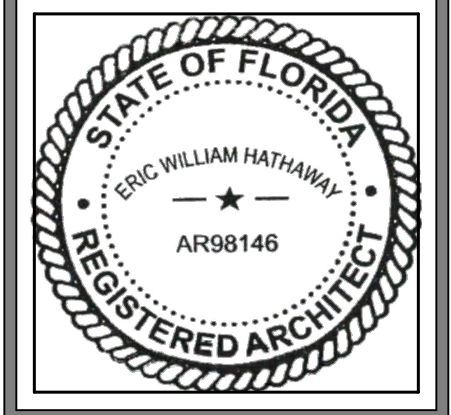
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ID	DATE	DESCRIPTION
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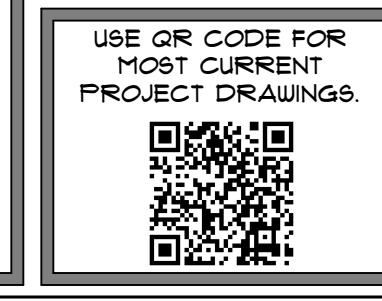
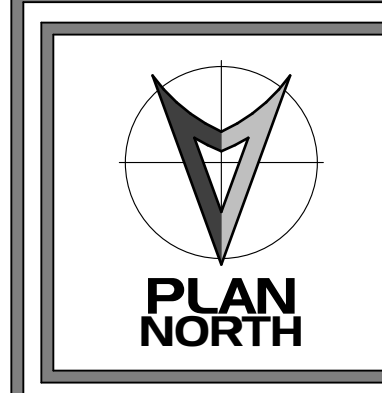


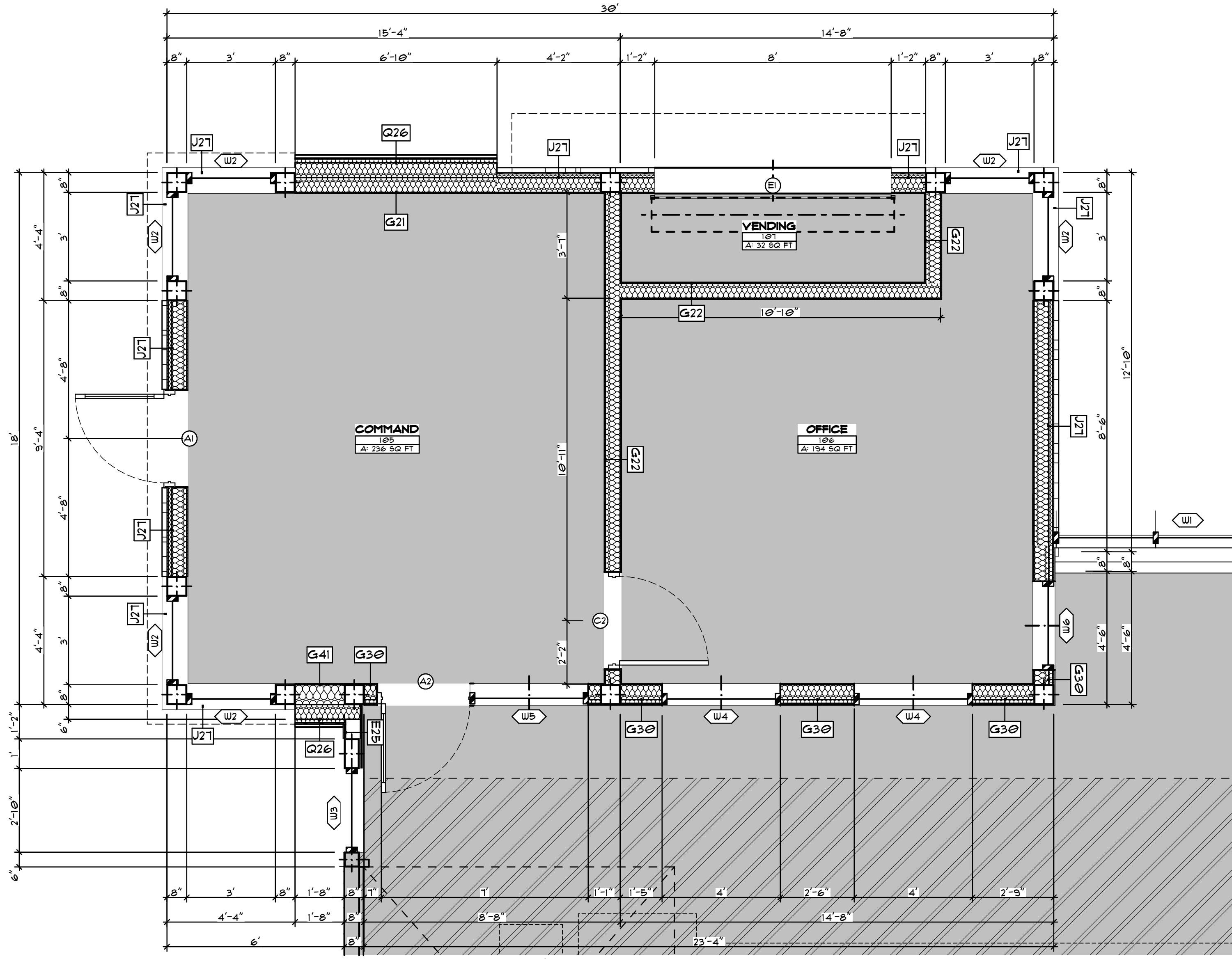
modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OYIEDO, FL 32165

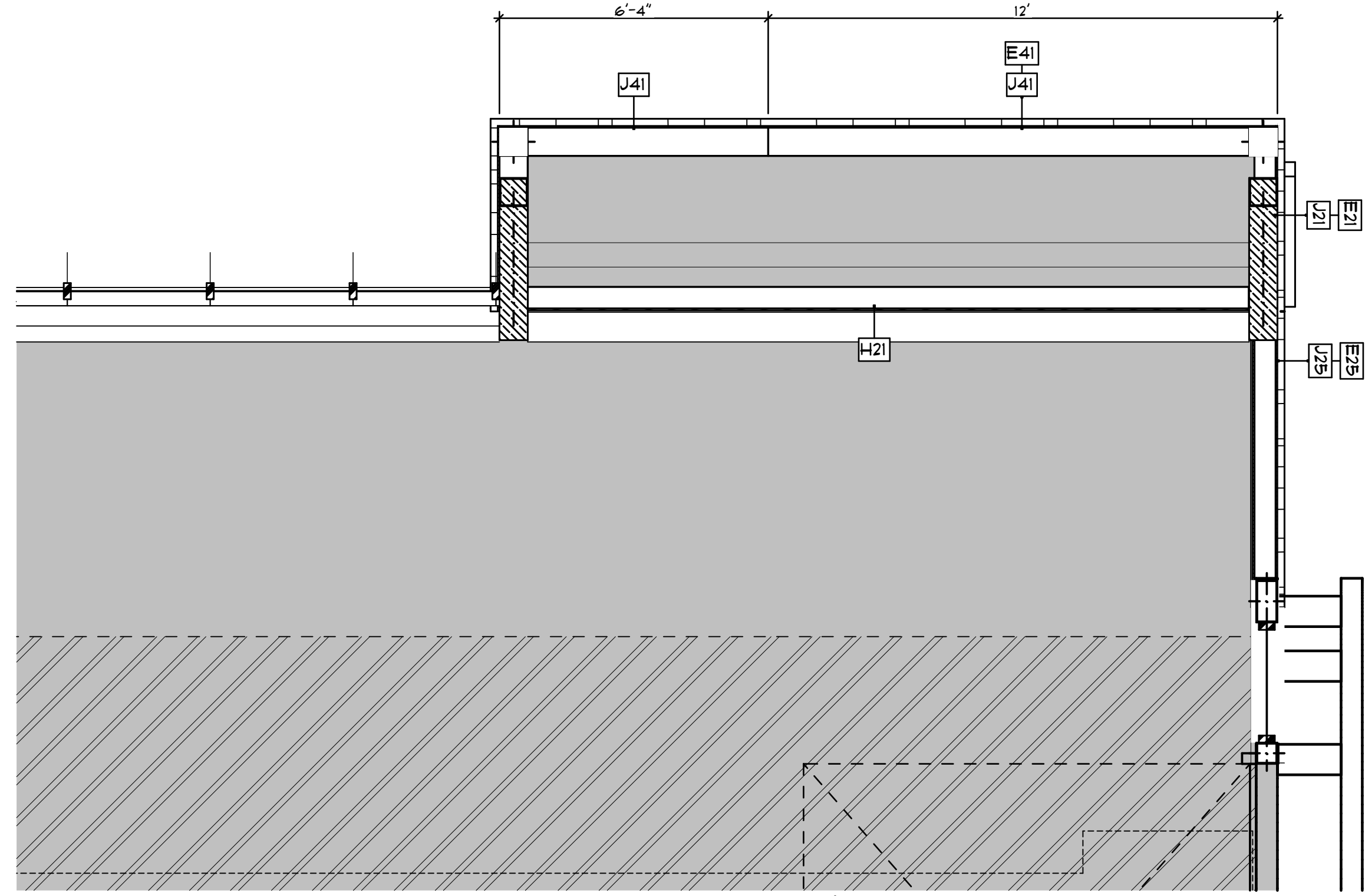


PRELIMINARY	
DATE OF CREATION:	10/18/2021
PLOT DATE:	4/4/22
DRAWN BY:	EW, MJR
CHECKED BY:	EW
SHEET:	MW-2.1 REFLECTED CEILING PLANS

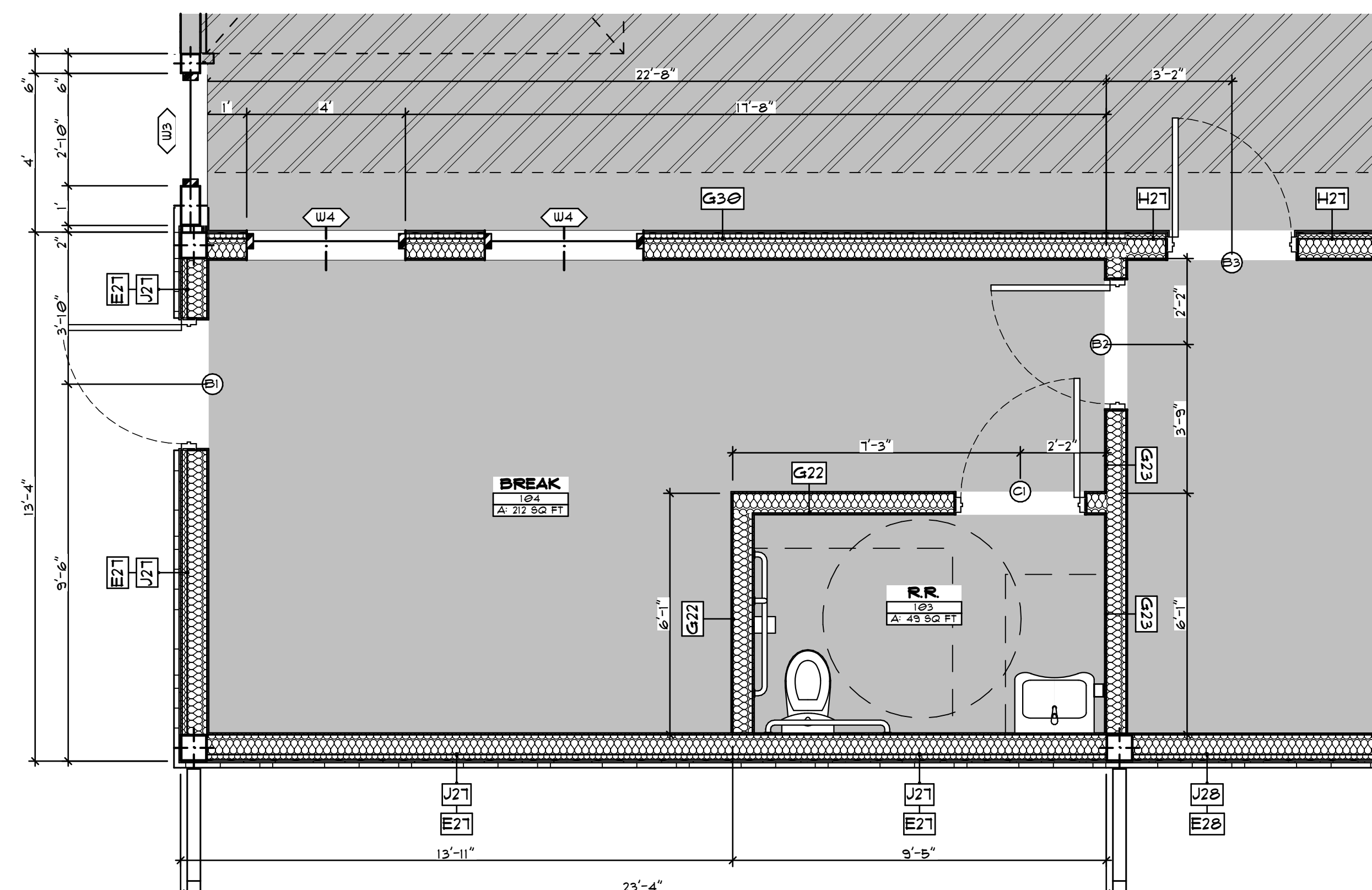




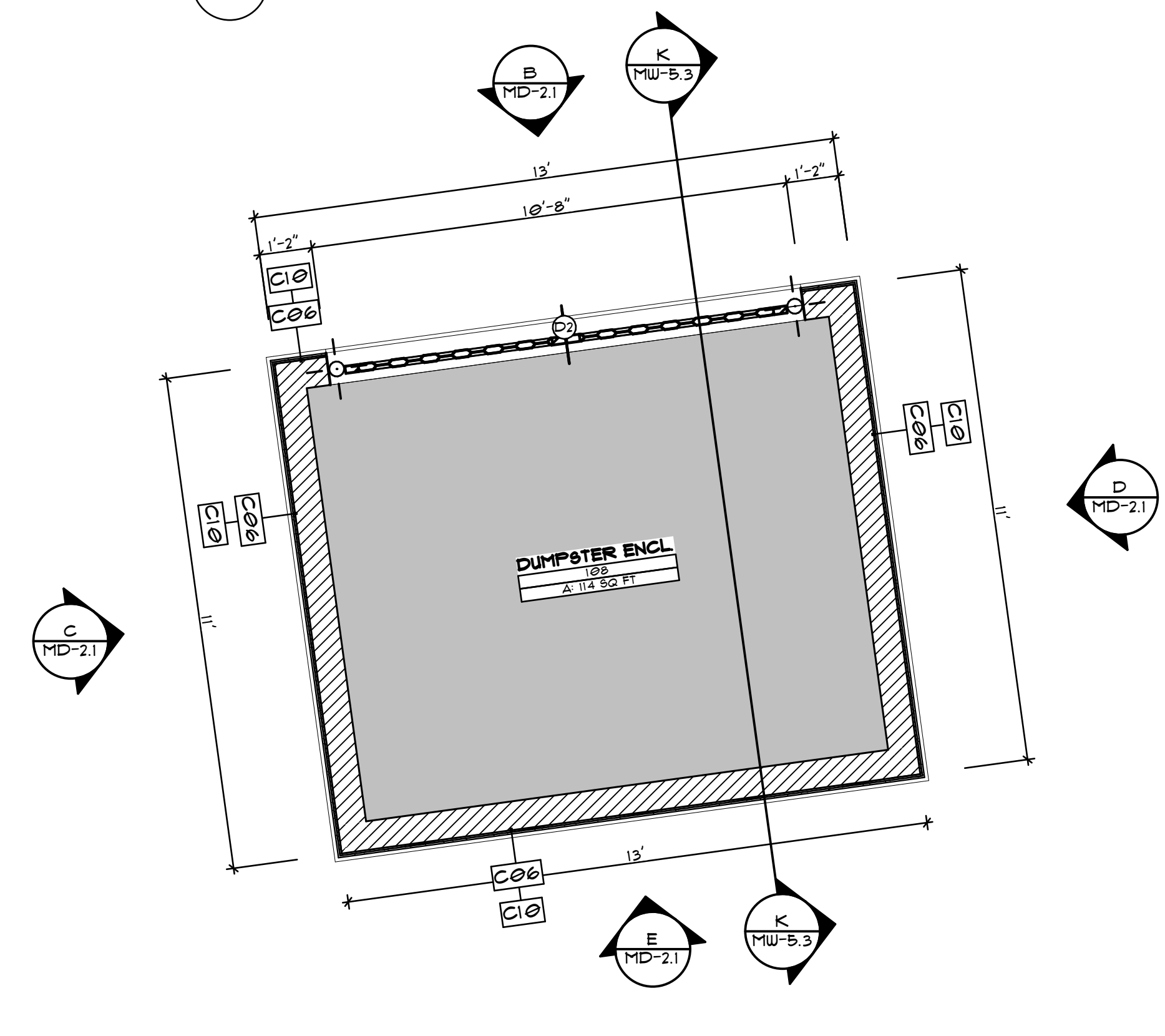
A OFFICE ENLARGED
SCALE: 3/8" = 1'-0"



C SIGN BASE ENLARGED
SCALE: 3/8" = 1'-0"



K BREAK ENLARGED
SCALE: 3/8" = 1'-0"



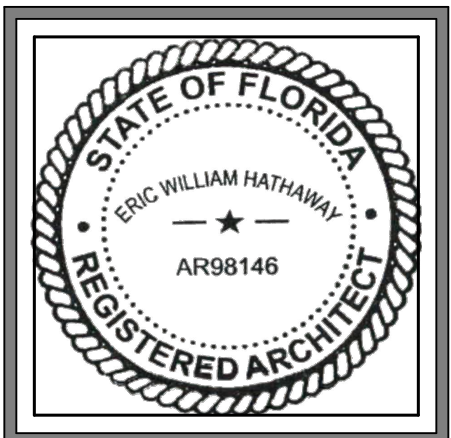
N DUMPSTER ENCL.
SCALE: 3/8" = 1'-0"

REVISIONS	
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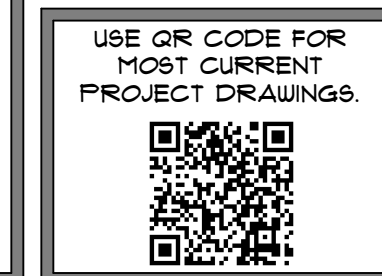
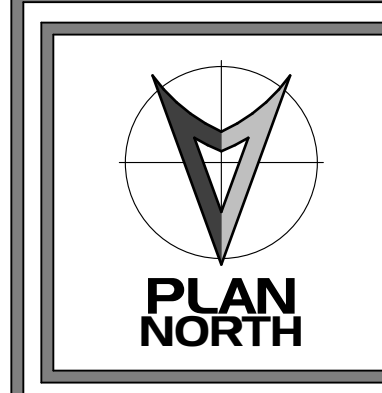
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 MODERNWASH INC. 300175 STARBUCK LANE - OYIEDO, FL 32165
 ILLUMINATED DESIGNS INC. 300175 STARBUCK LANE - OYIEDO, FL 32165

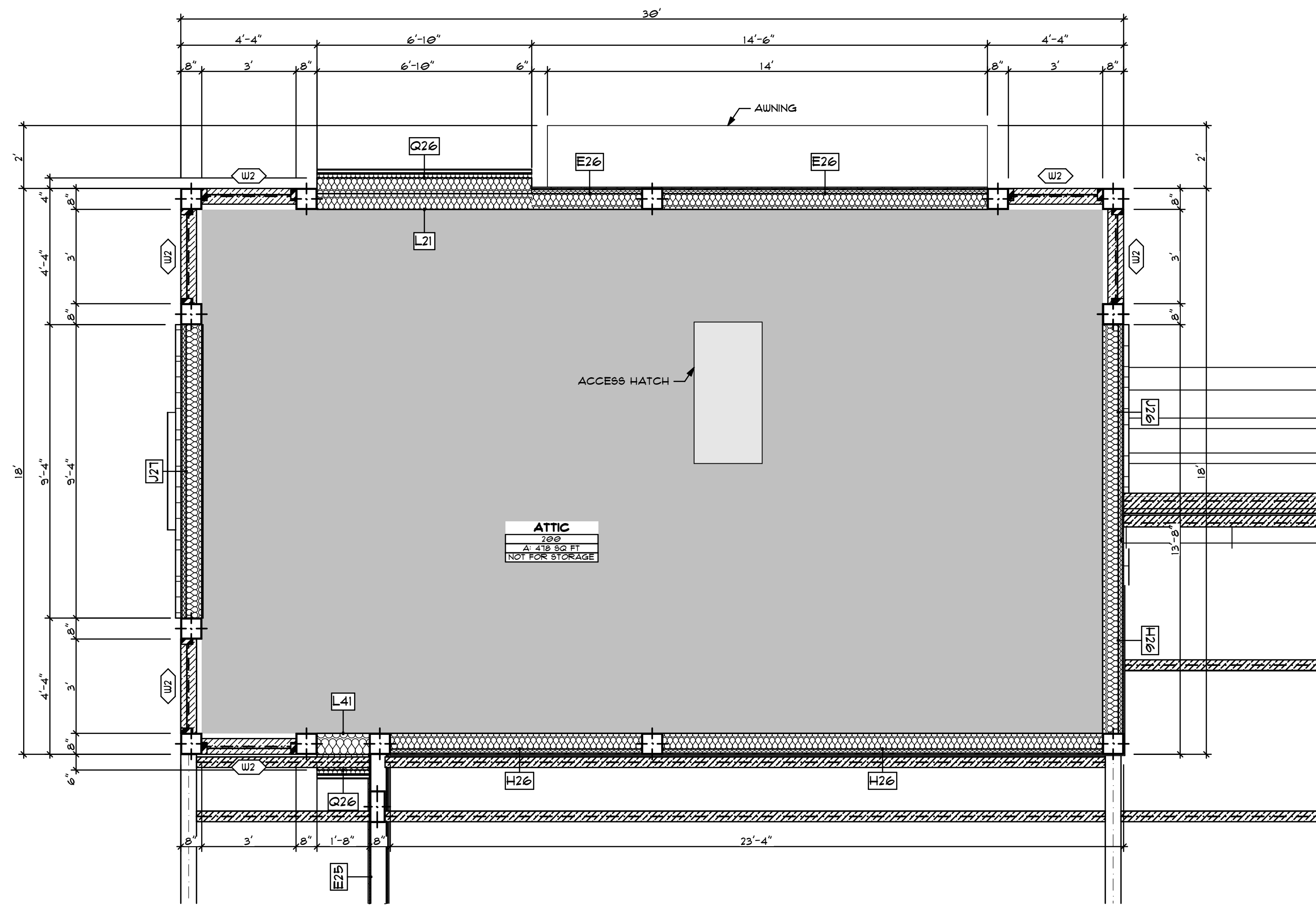
modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OYIEDO, FL 32165



PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-3.1
ENLARGED PLANS





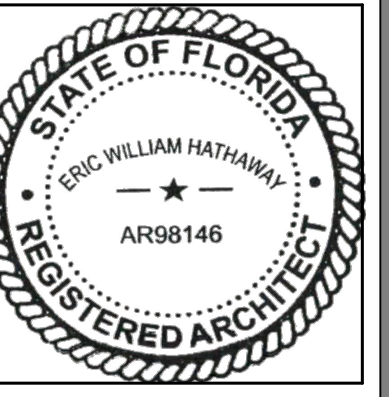
A 2ND FLOOR OFFICE ENLARGED
SCALE 3/8" = 1'-0"

REVISIONS	
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1	FOR PERMIT
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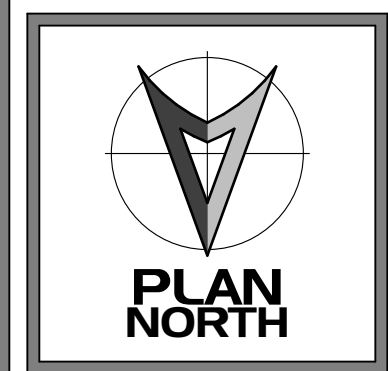
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 MODERNWASH INC. AND ILLUSTRATED DESIGNS INC.
 202175 STAR WASH - OYIEDO A.F.N.

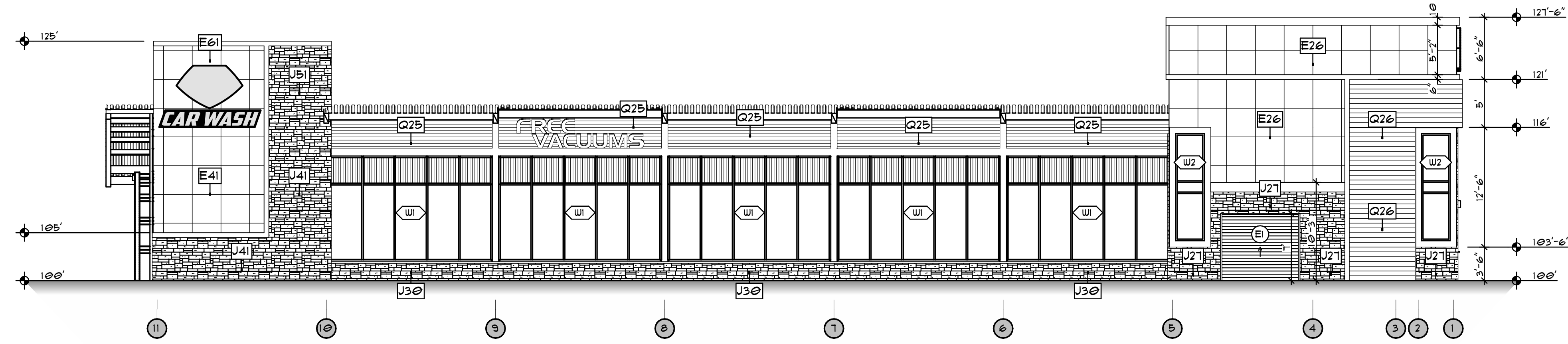
modernwash
5220 Scottsville Road
Bowling Green, KY 42104
Model:
Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OYIEDO, FL 32165

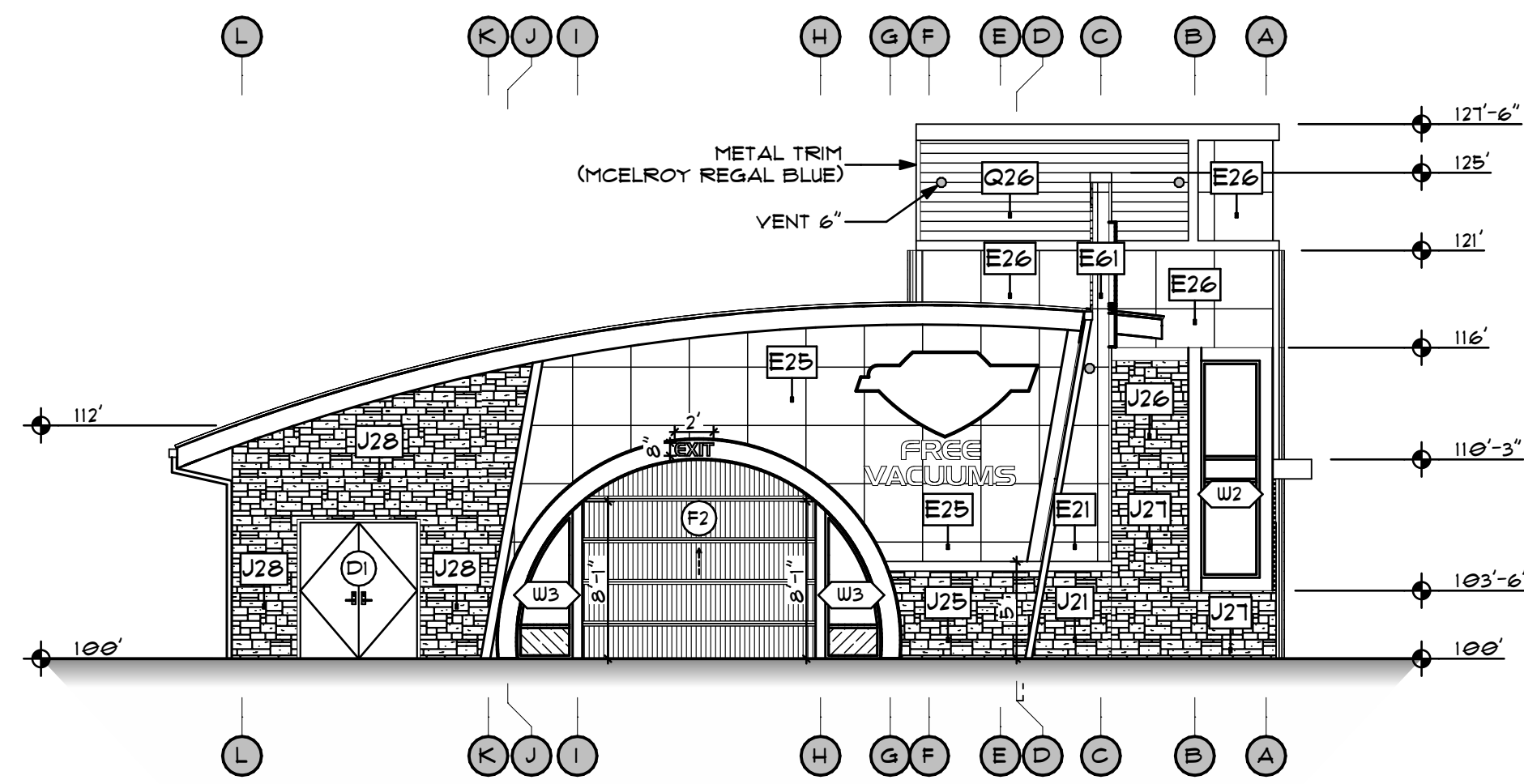


PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-3.2
ENLARGED PLANS

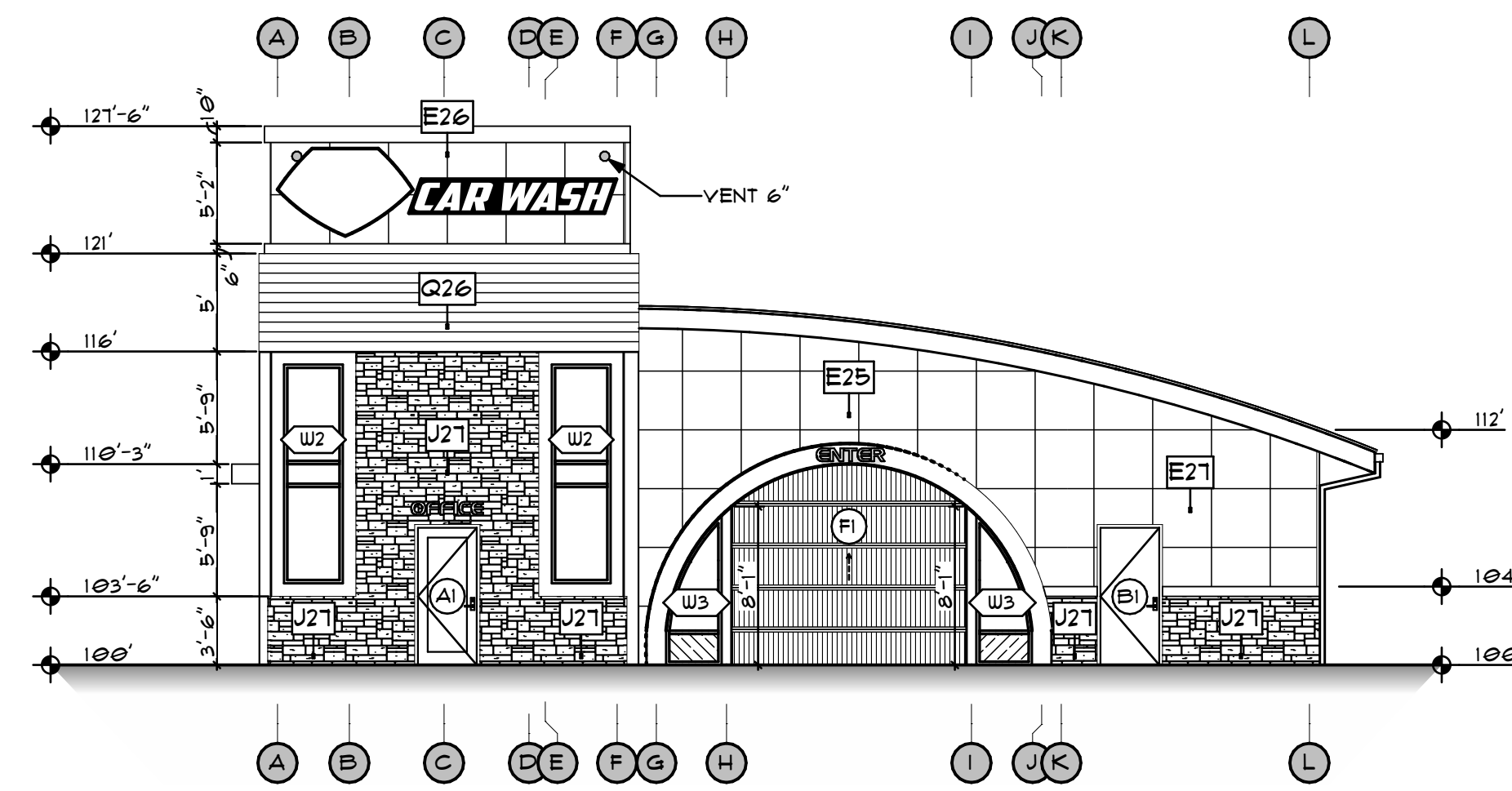




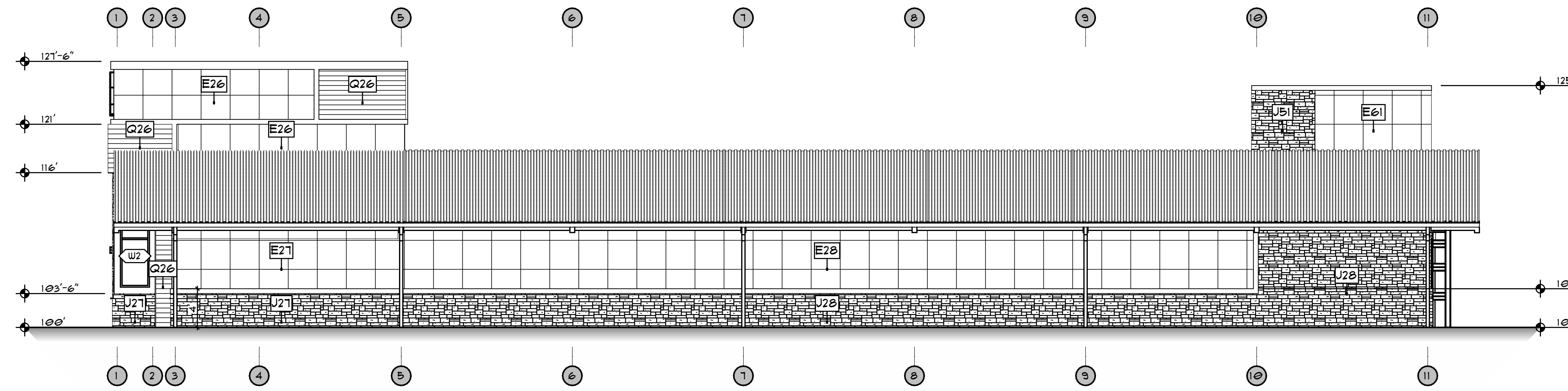
A SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



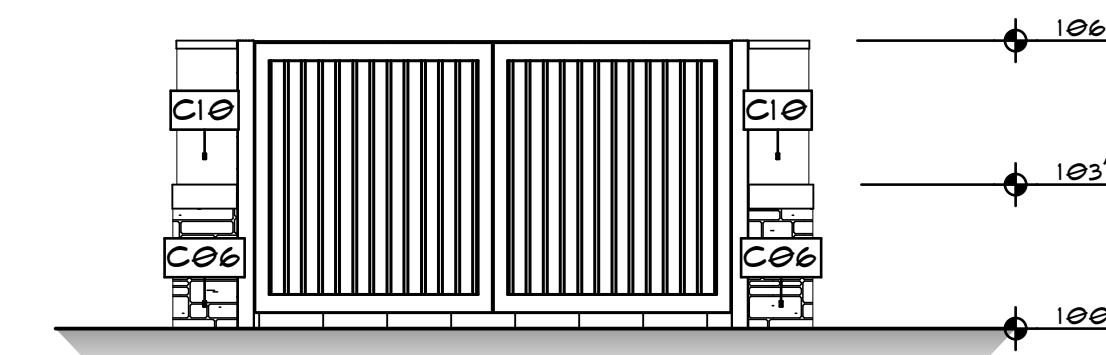
F WEST ELEVATION
SCALE: 1/8" = 1'-0"



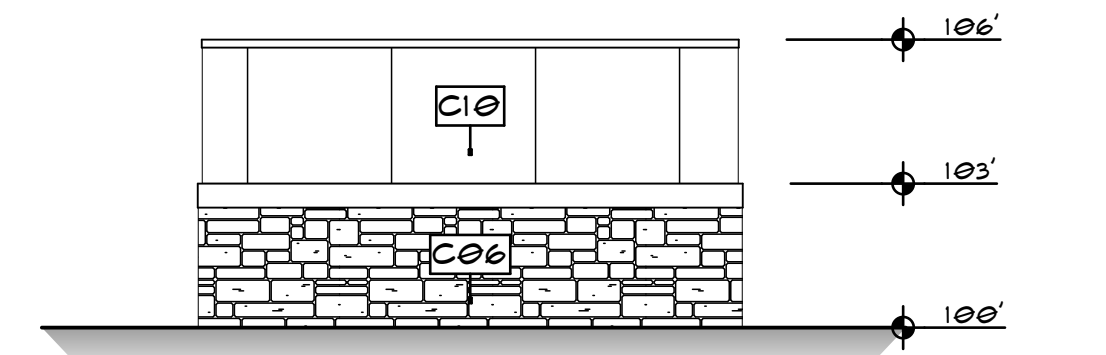
H EAST ELEVATION
SCALE: 1/8" = 1'-0"



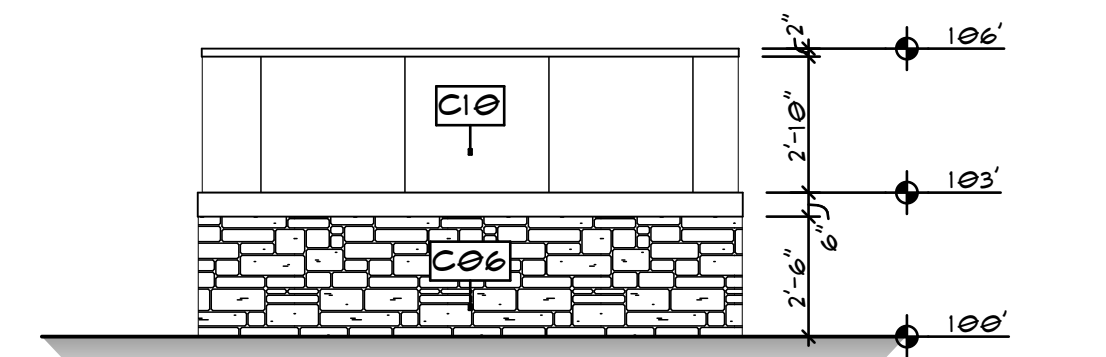
K NORTH ELEVATION
SCALE: 1/8" = 1'-0"



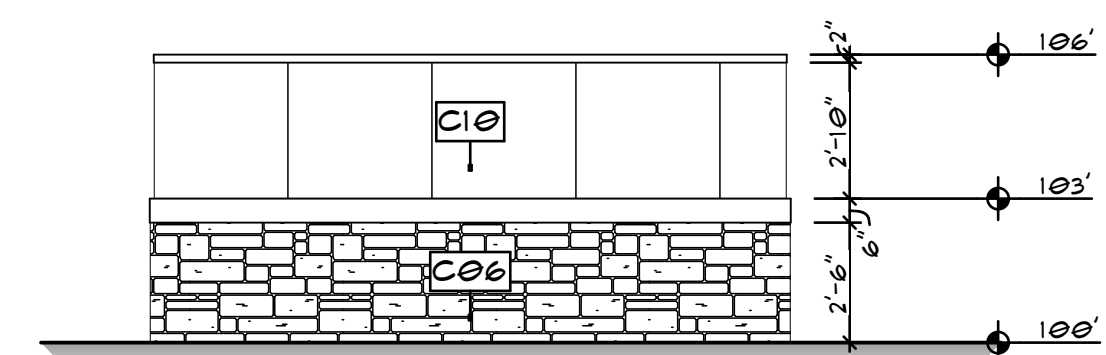
B SOUTH - DUMPSTER ENCL.
SCALE: 1/4" = 1'-0"



C WEST - DUMPSTER ENCL.
SCALE: 1/4" = 1'-0"



D EAST - DUMPSTER ENCL.
SCALE: 1/4" = 1'-0"



E NORTH - DUMPSTER ENCL.
SCALE: 1/4" = 1'-0"

REVISIONS	
NO.	DESCRIPTION
1	FOR PERMIT
DATE	4/4/22

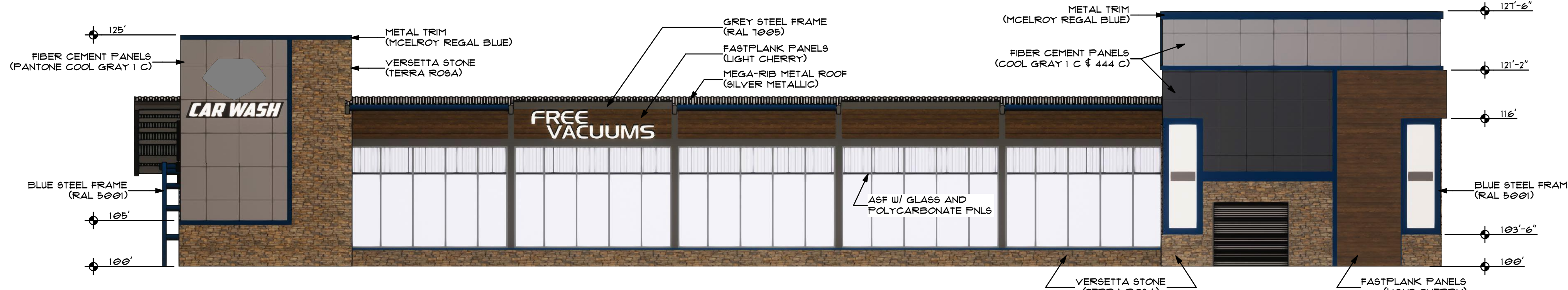
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 MODERNWASH INC. 2021/19 STAR WASH - OVIEDO, FL, IN
 LUMINA DESIGN INC.

modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OVIEDO, FL 32165

PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-4.1 ELEVATIONS

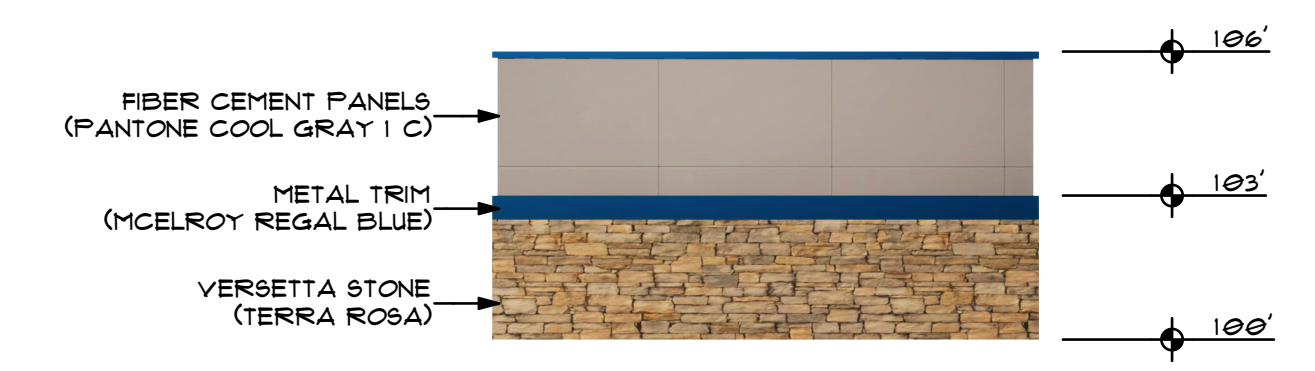
USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.



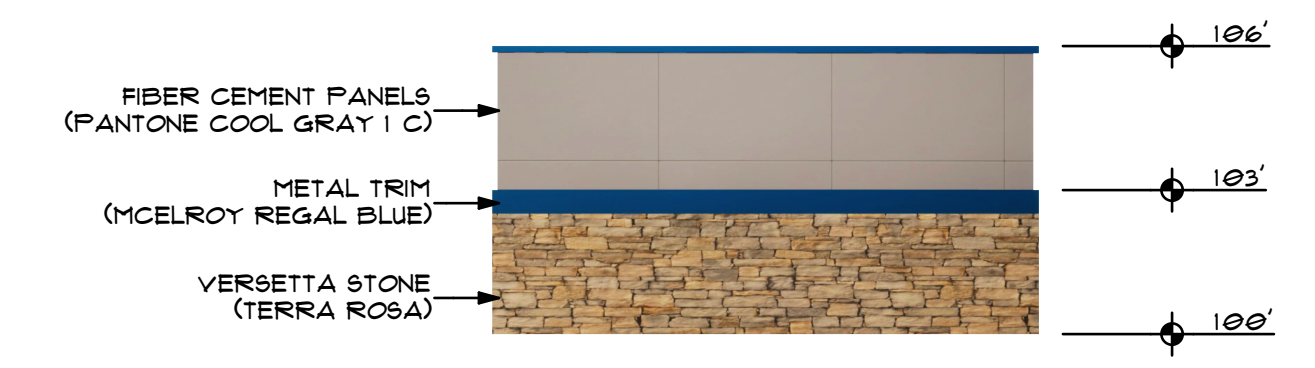
A SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



B SOUTH - DUMPSTER ENCL.
SCALE: 1/4" = 1'-0"



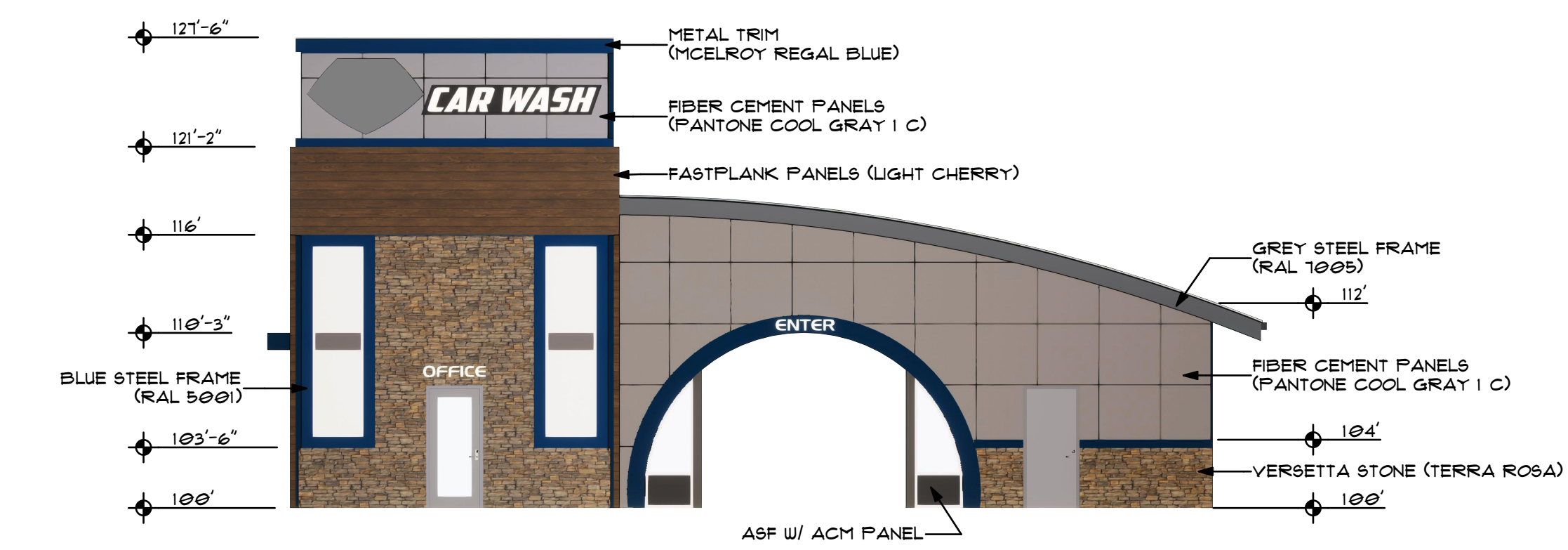
C EAST - DUMPSTER ENCL.
SCALE: 1/4" = 1'-0"



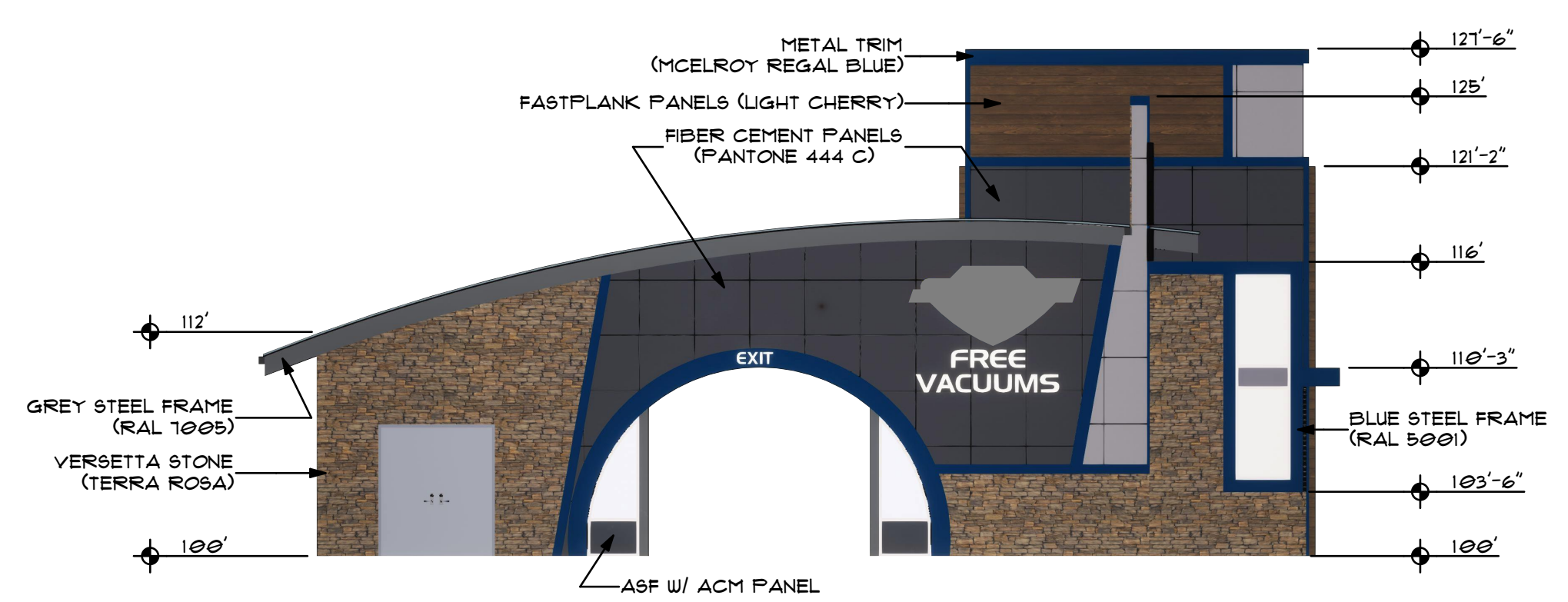
D WEST - DUMPSTER ENCL.
SCALE: 1/4" = 1'-0"



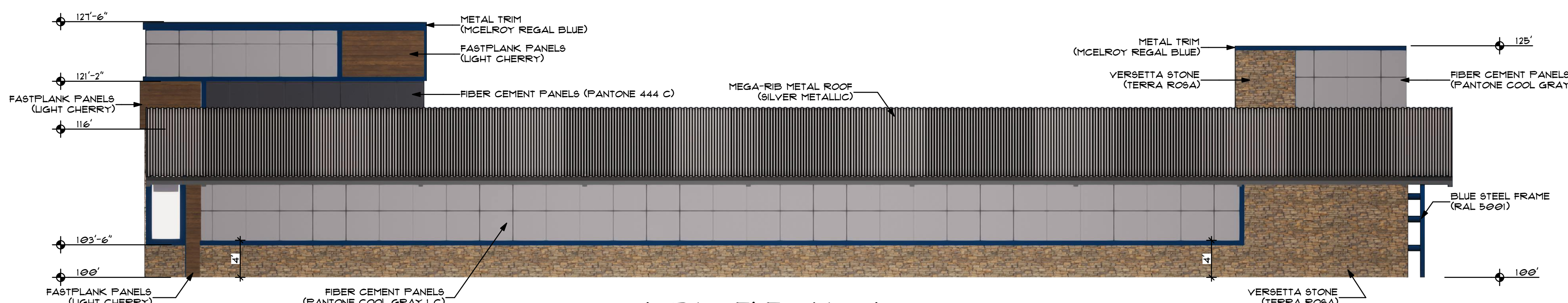
E NORTH - DUMPSTER ENCL.
SCALE: 1/4" = 1'-0"



F EAST ELEVATION
SCALE: 1/8" = 1'-0"



H WEST ELEVATION
SCALE: 1/8" = 1'-0"



K NORTH ELEVATION
SCALE: 1/8" = 1'-0"

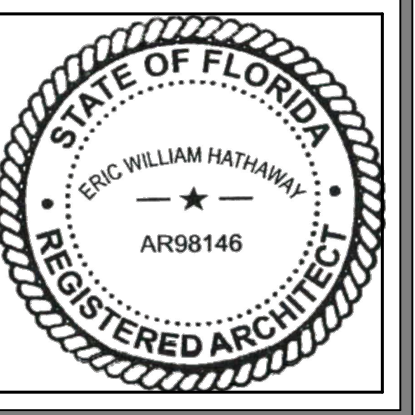
Terra Rosa™	RAL 5001 Green blue	RAL 7005 Mouse grey	Regal Blue*	Texas Silver Metallic*	Light Cherry	PANTONE Cool Gray 1 C	PANTONE 444 C	Polycarbonate Panel

REVISIONS	
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COPYRIGHT: MODERNWASH, 2021
300175, 31748, 31848, 1, 0, VEDCO, A, P, N

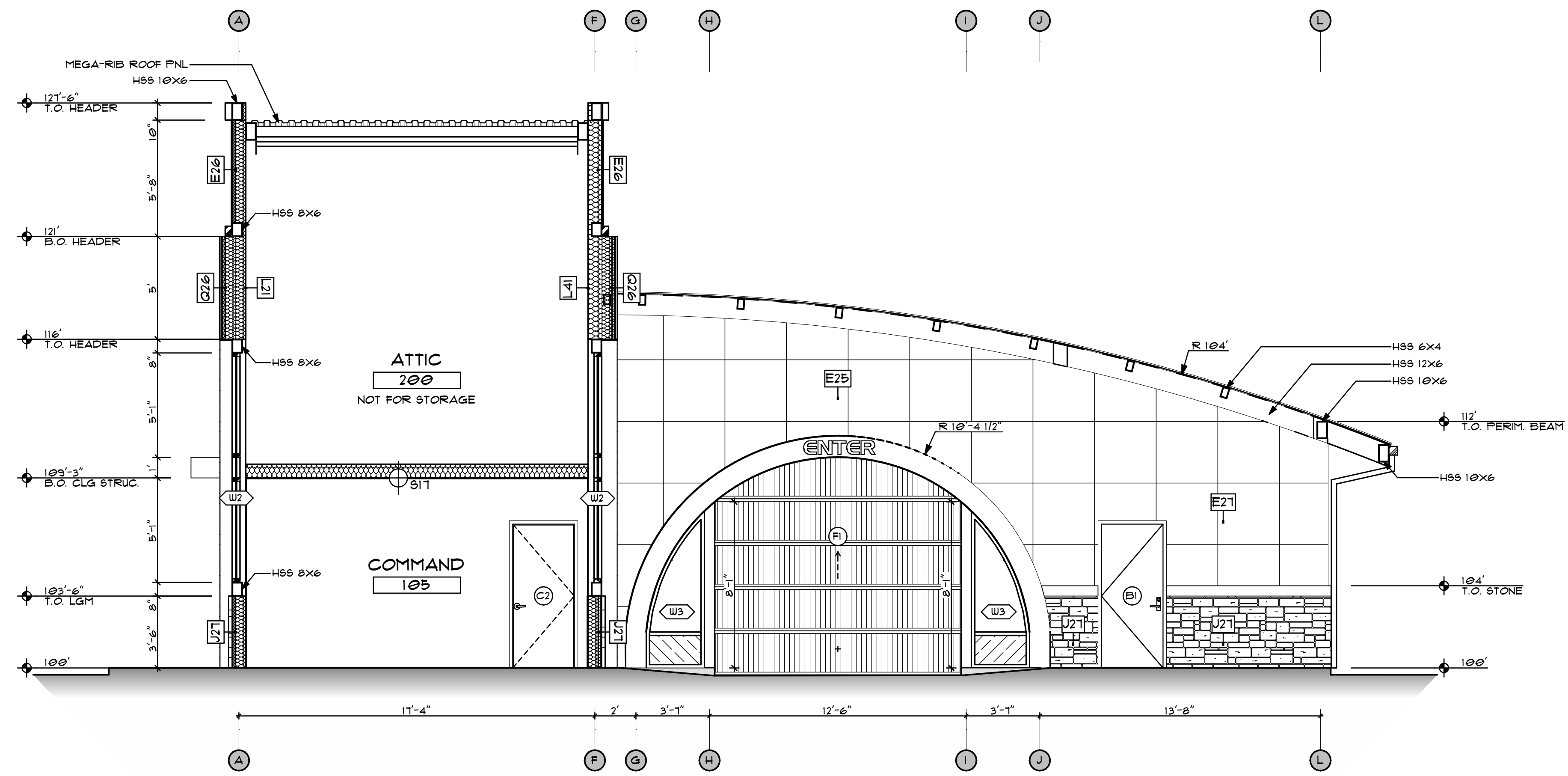
modernwash
5220 Scottsville Road
Bowling Green, KY 42104
Model:
Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
925 LOCKWOOD BLVD
OYIEDO, FL 32165

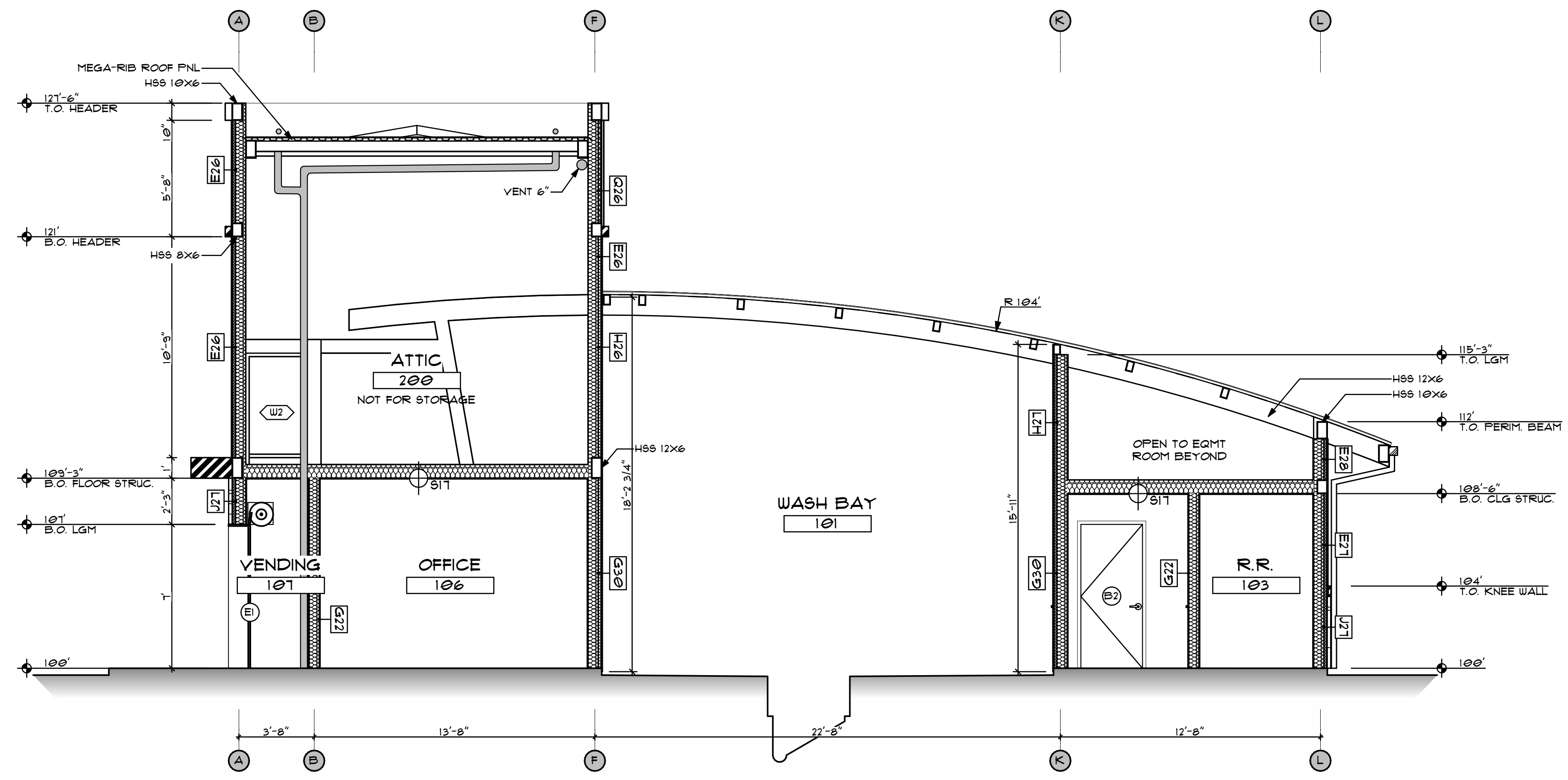


PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-4.2
ELEVATIONS - COLOR

USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.



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



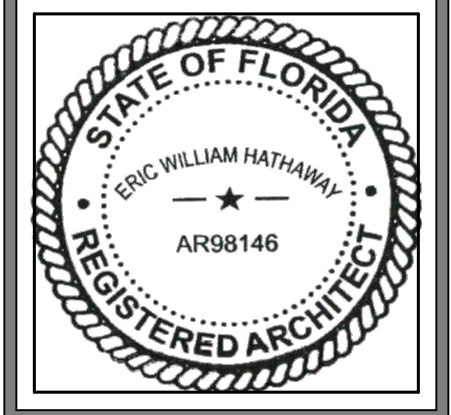
K SECTION
SCALE: 1/4" = 1'-0"

REVISIONS	
NO.	DESCRIPTION
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 MODERNWASH INC. 2021 175 STAR WASH - OYIEDO, FL, USA

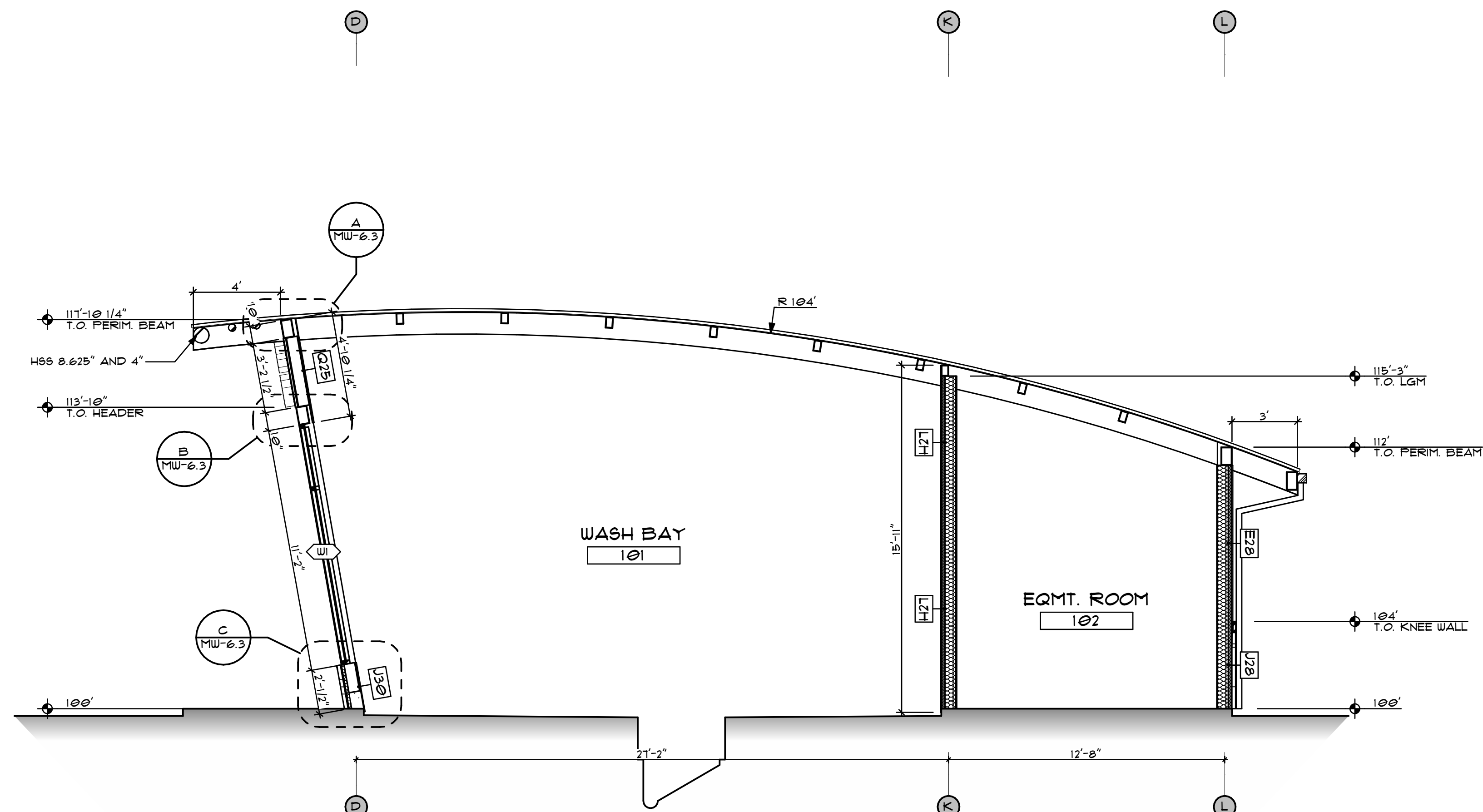
modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OYIEDO, FL 32165

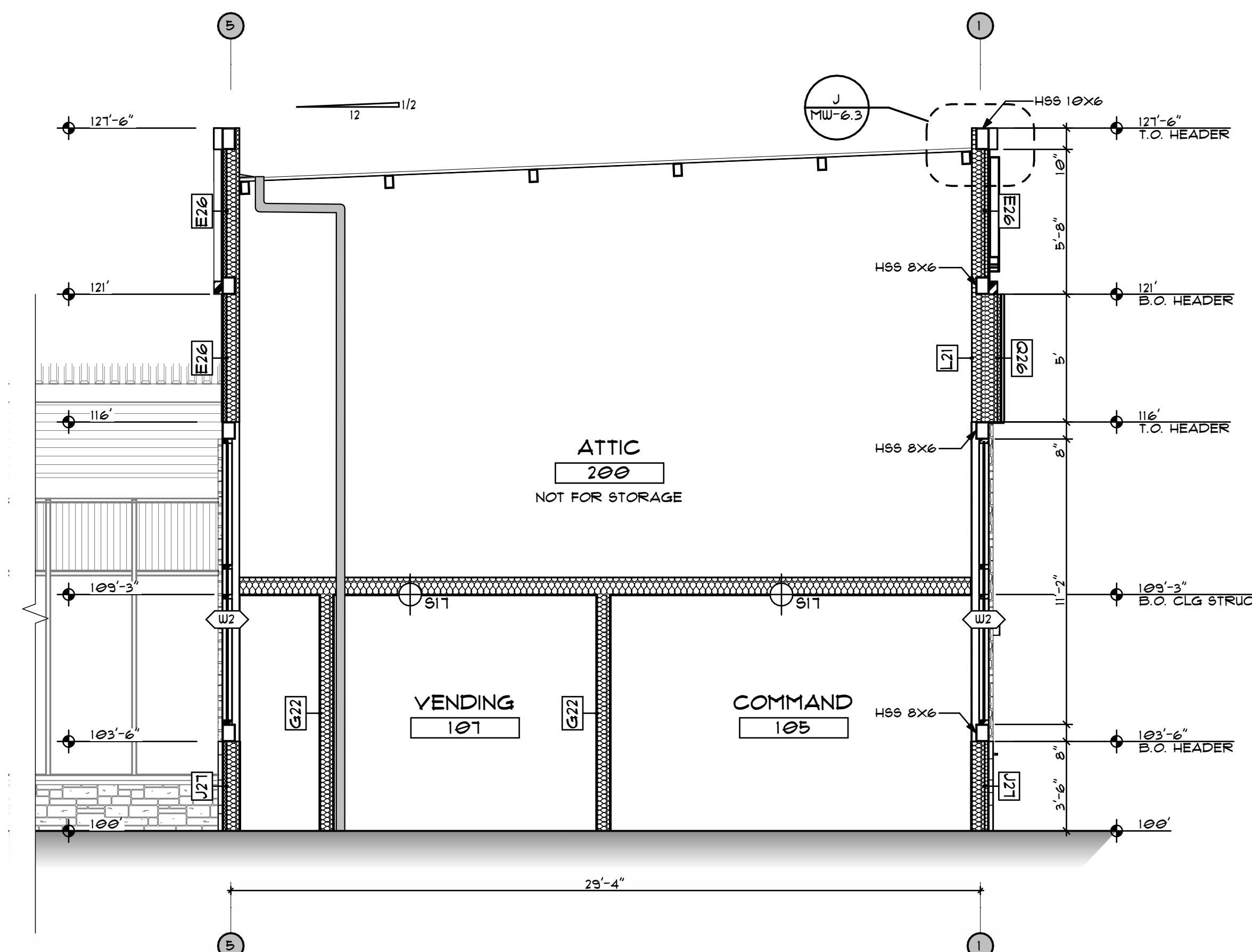


PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-5.1
SECTIONS

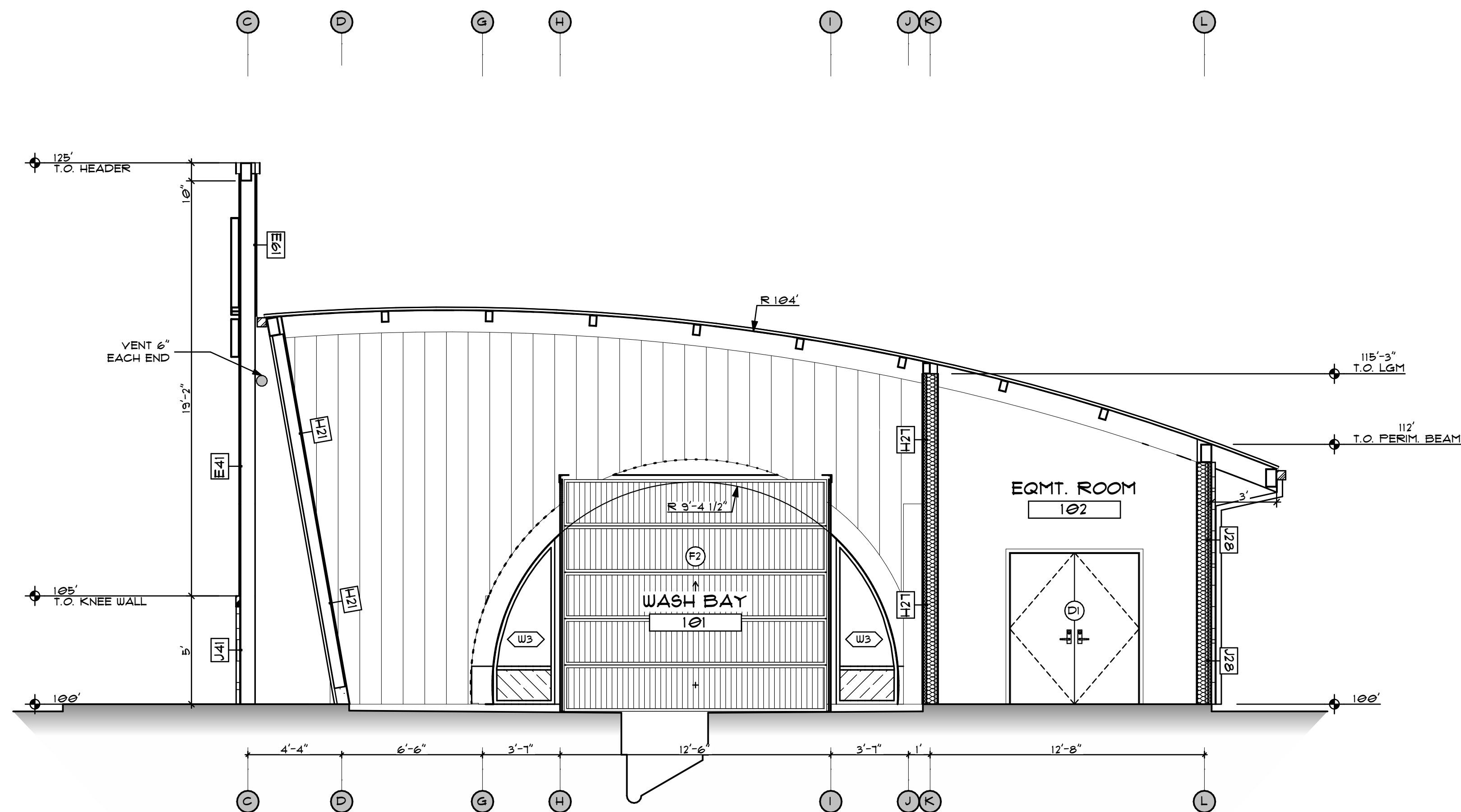
USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.



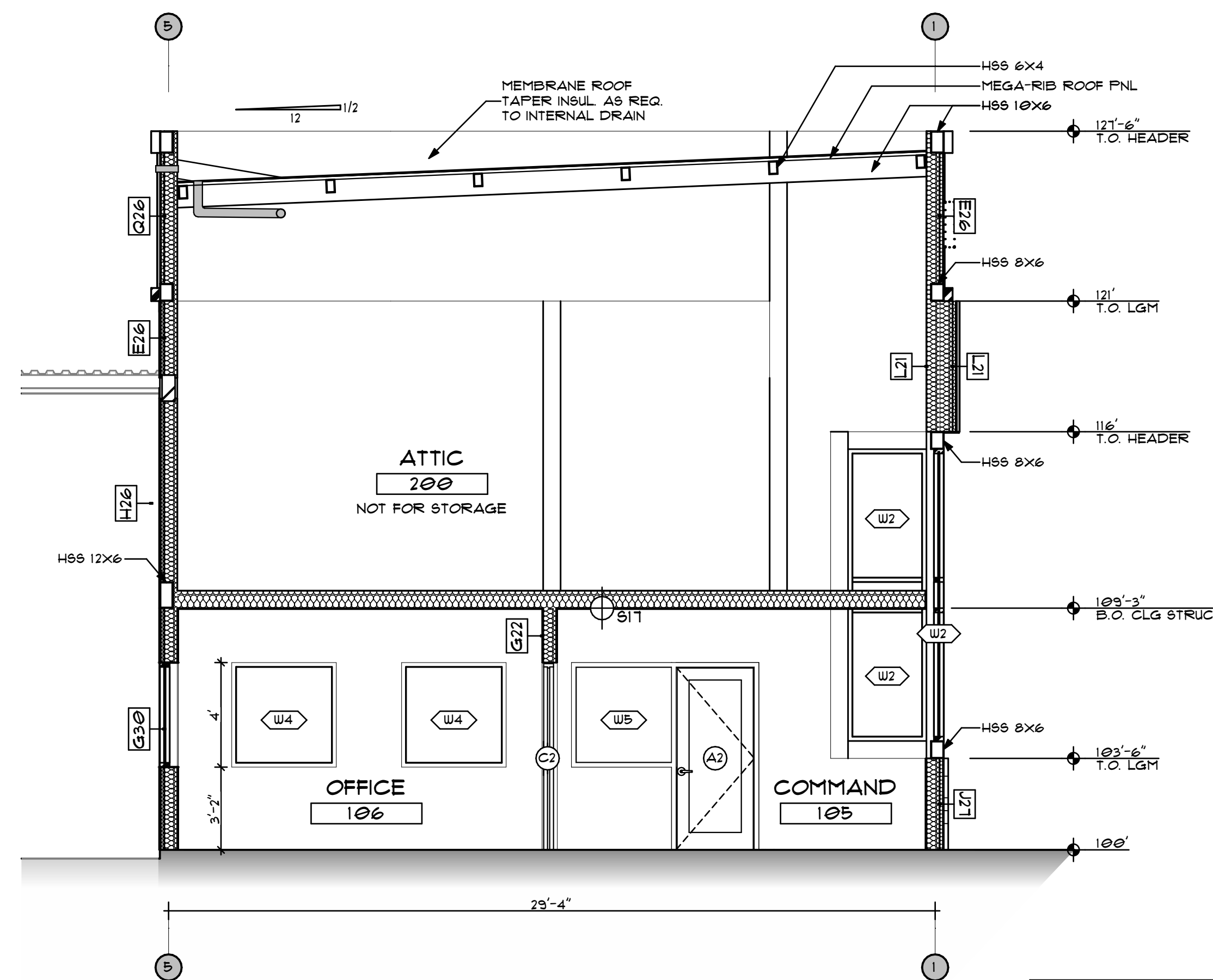
A SECTION
SCALE 1/4" = 1'-0"



D SECTION
SCALE 1/4" = 1'-0"



K SECTION
SCALE 1/4" = 1'-0"



I SECTION
SCALE 1/4" = 1'-0"

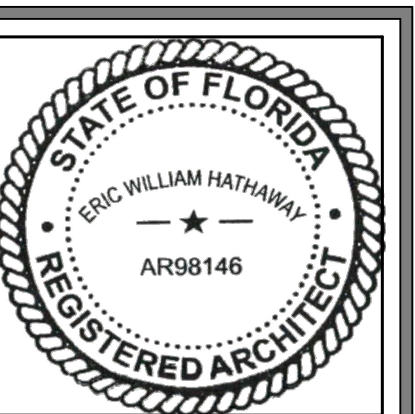
REVISIONS	
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 MODERNWASH INC. 202175 STAR WASH - OYIEDO, A.F.N.

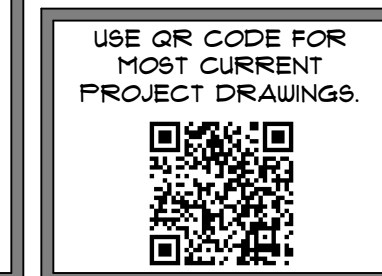


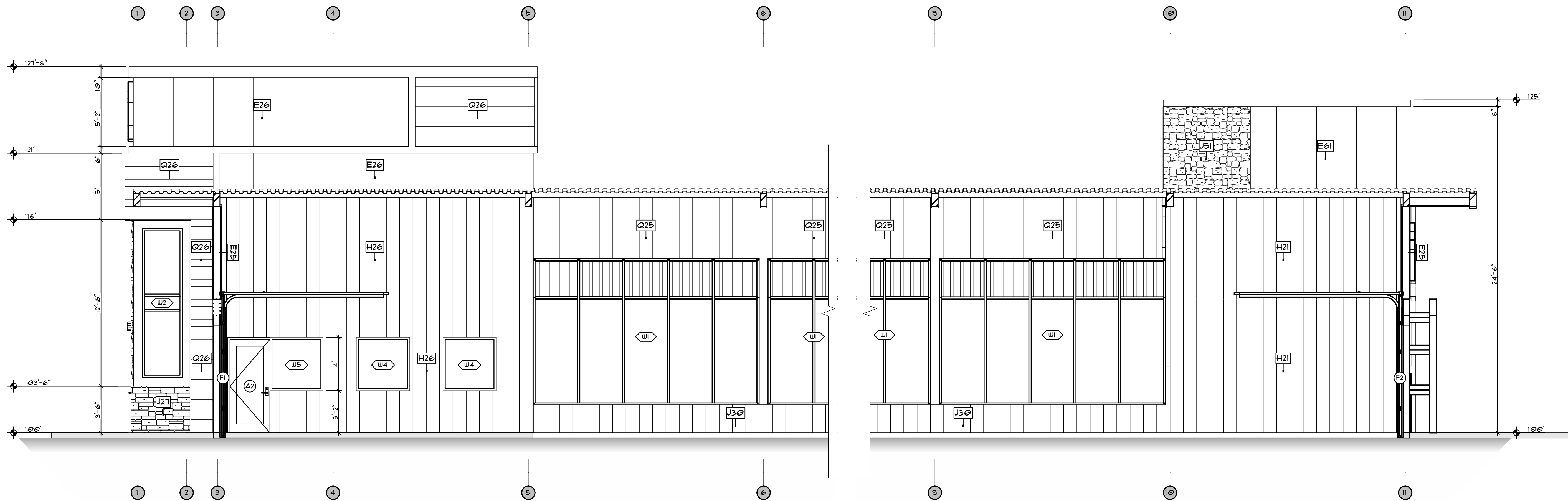
modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OYIEDO, FL 32165

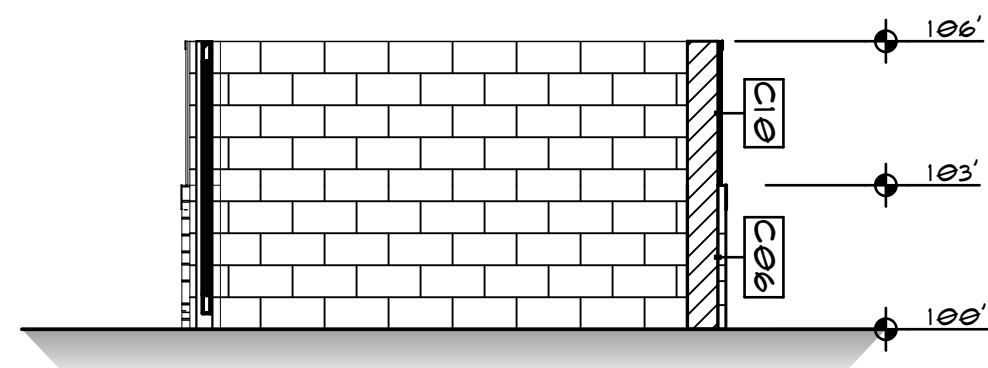


PRELIMINARY	
DATE OF CREATION:	10/18/2021
PLOT DATE:	4/4/22
DRAWN BY:	EWJ, MJR
CHECKED BY:	EWJ
SHEET:	MW-5.2
SECTIONS	





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



K SECTION - DUMPSTER ENCL.
SCALE: 1/4" = 1'-0"

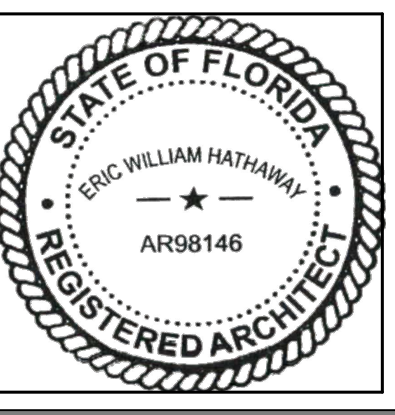
REVISIONS	
DATE	DESCRIPTION
4/4/22	FOR PERMIT

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 MODERNWASH INC. AND LUMINA DESIGN INC.
 2021/19, STAR WASH - OYIEDO, FL, IN

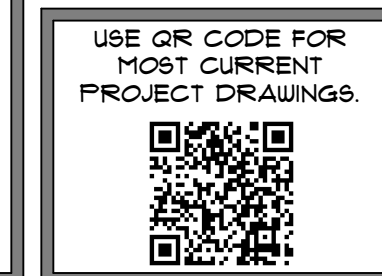


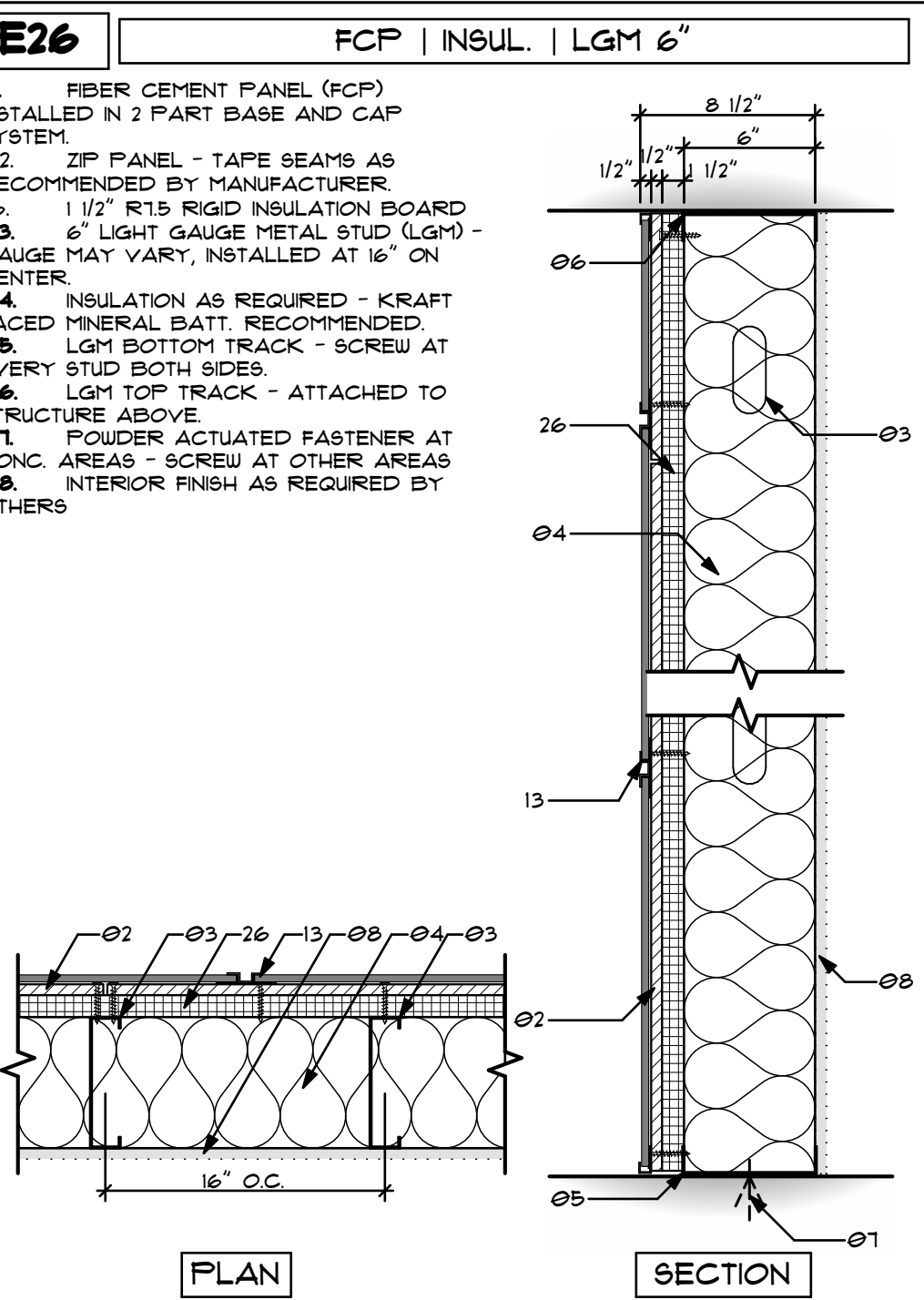
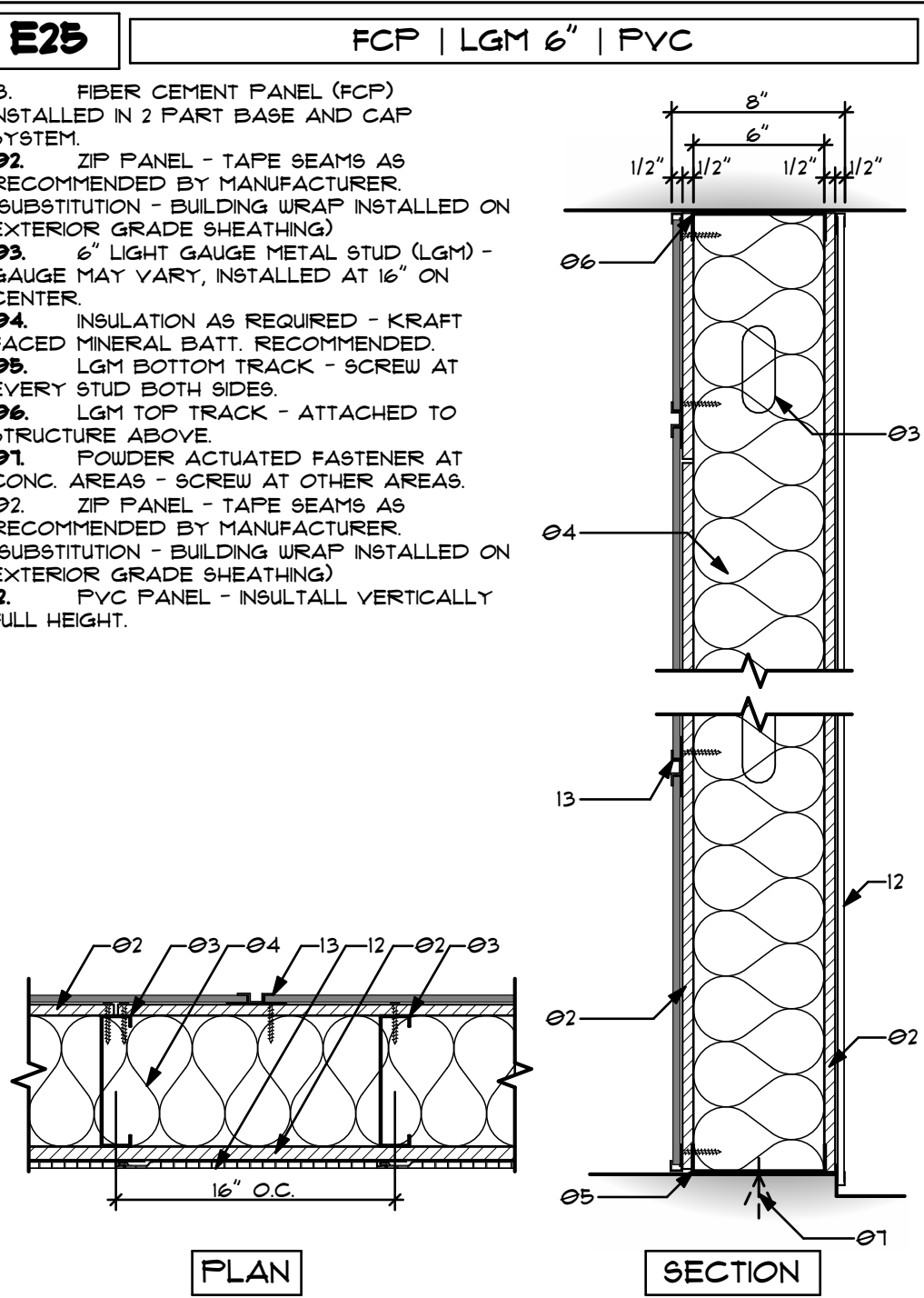
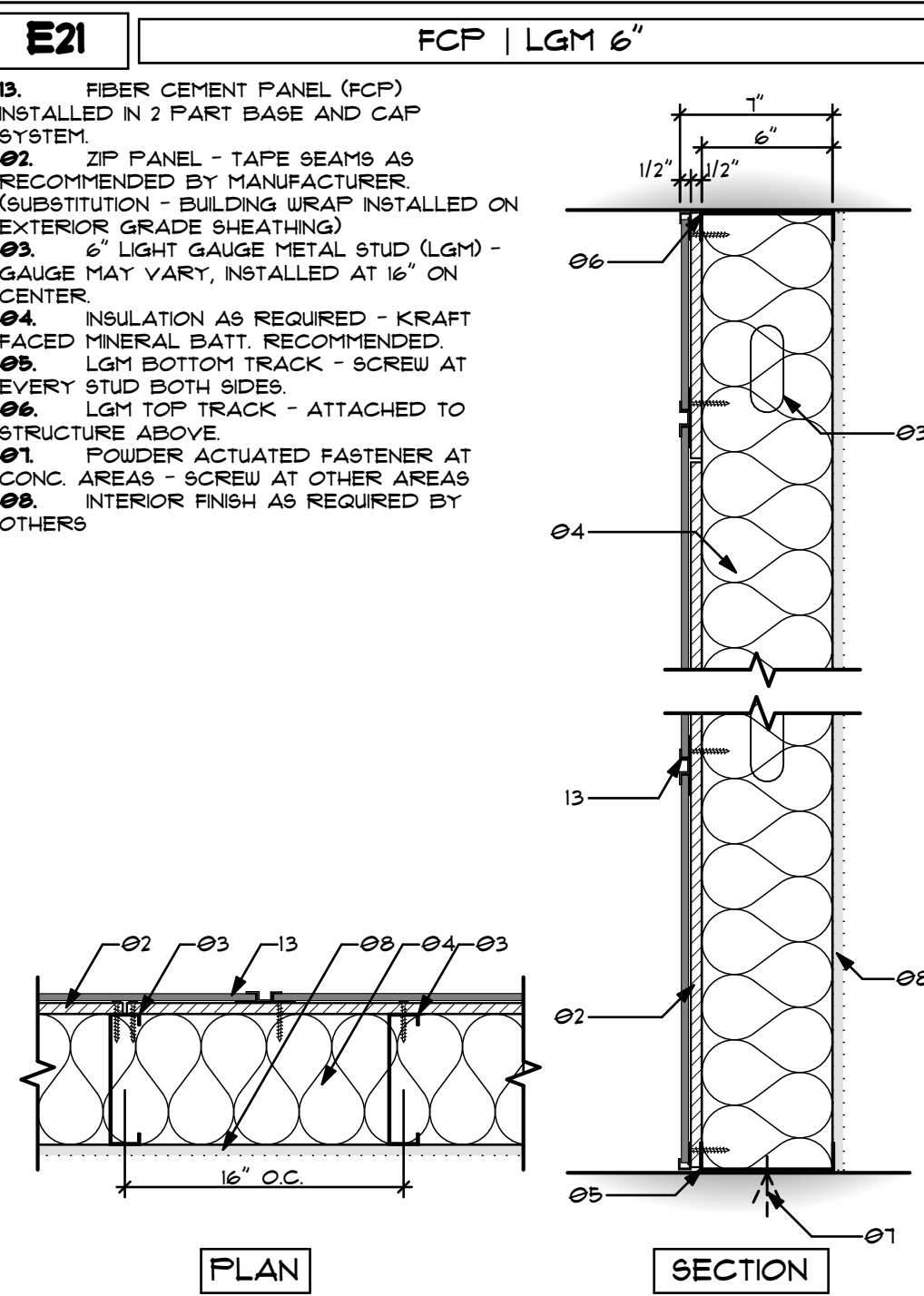
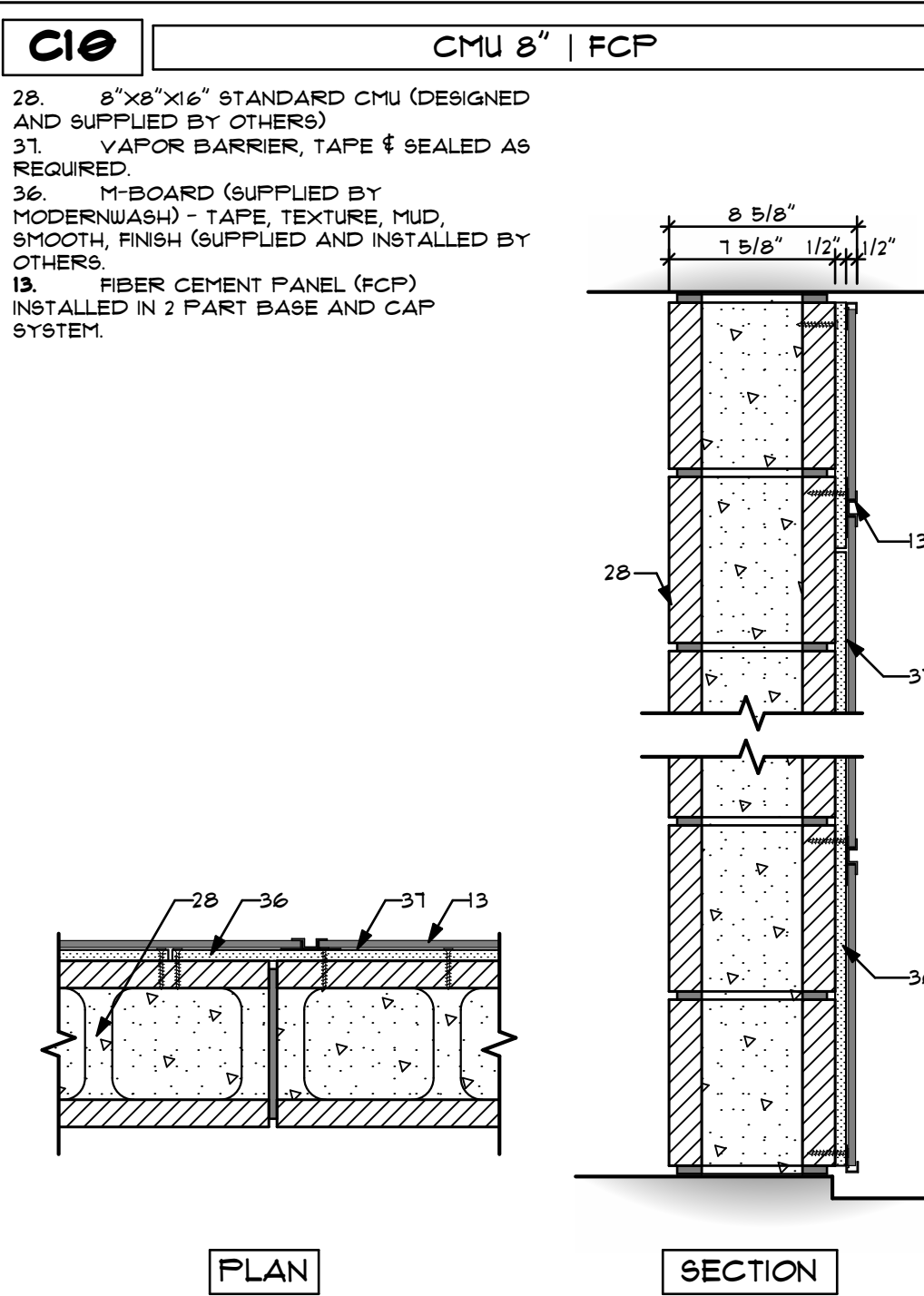
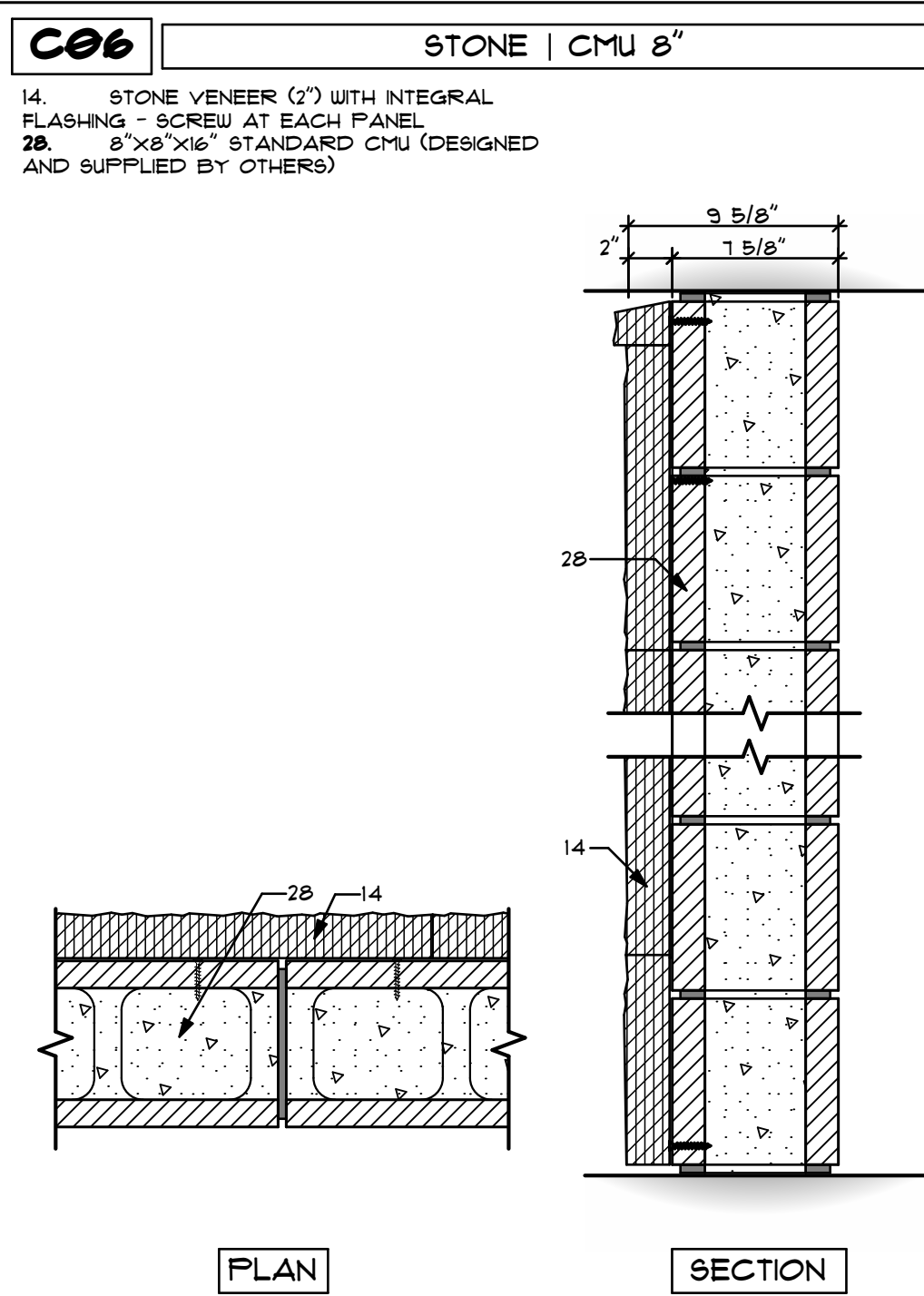
modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OYIEDO, FL 32165



PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-5.3
SECTIONS



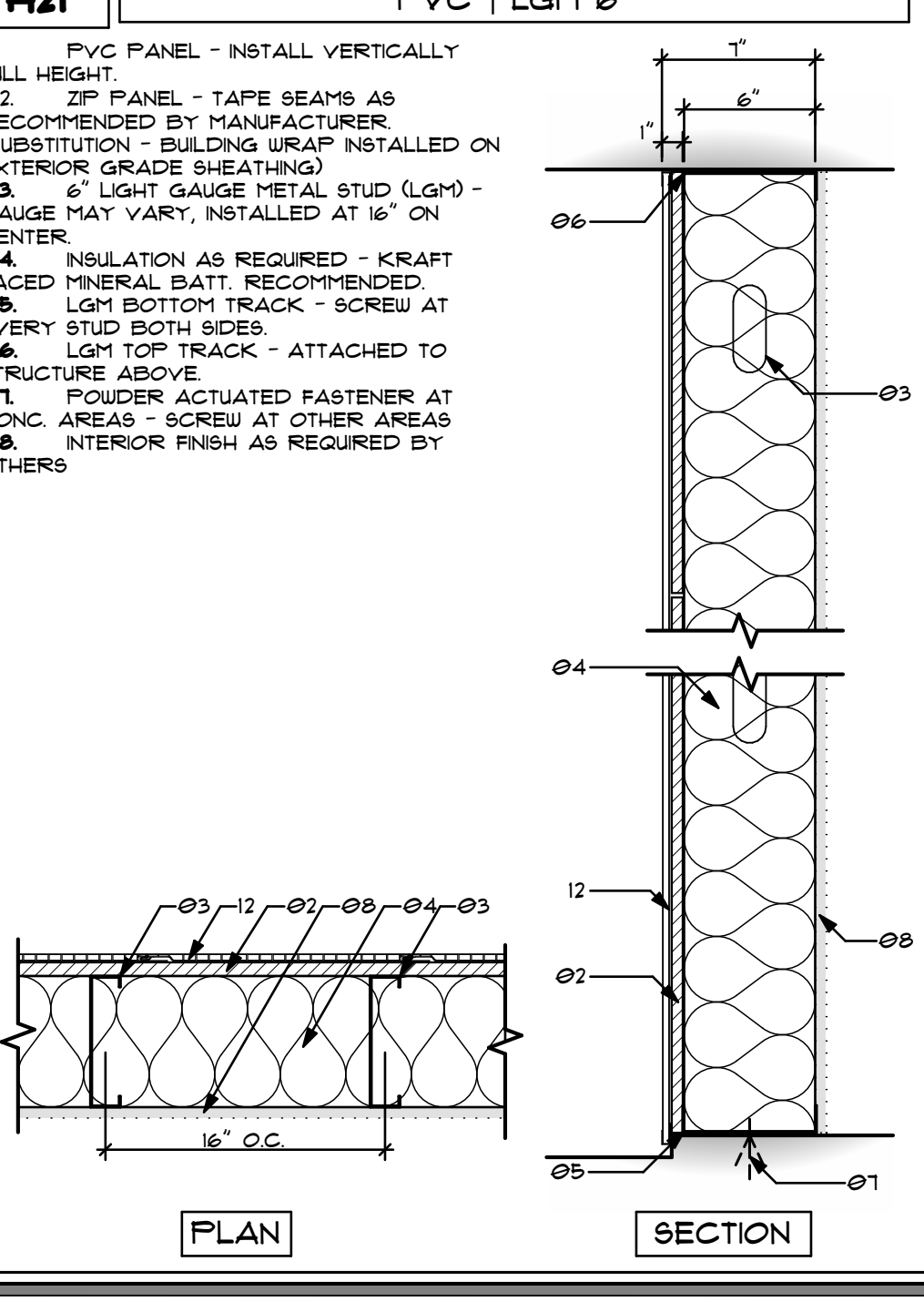
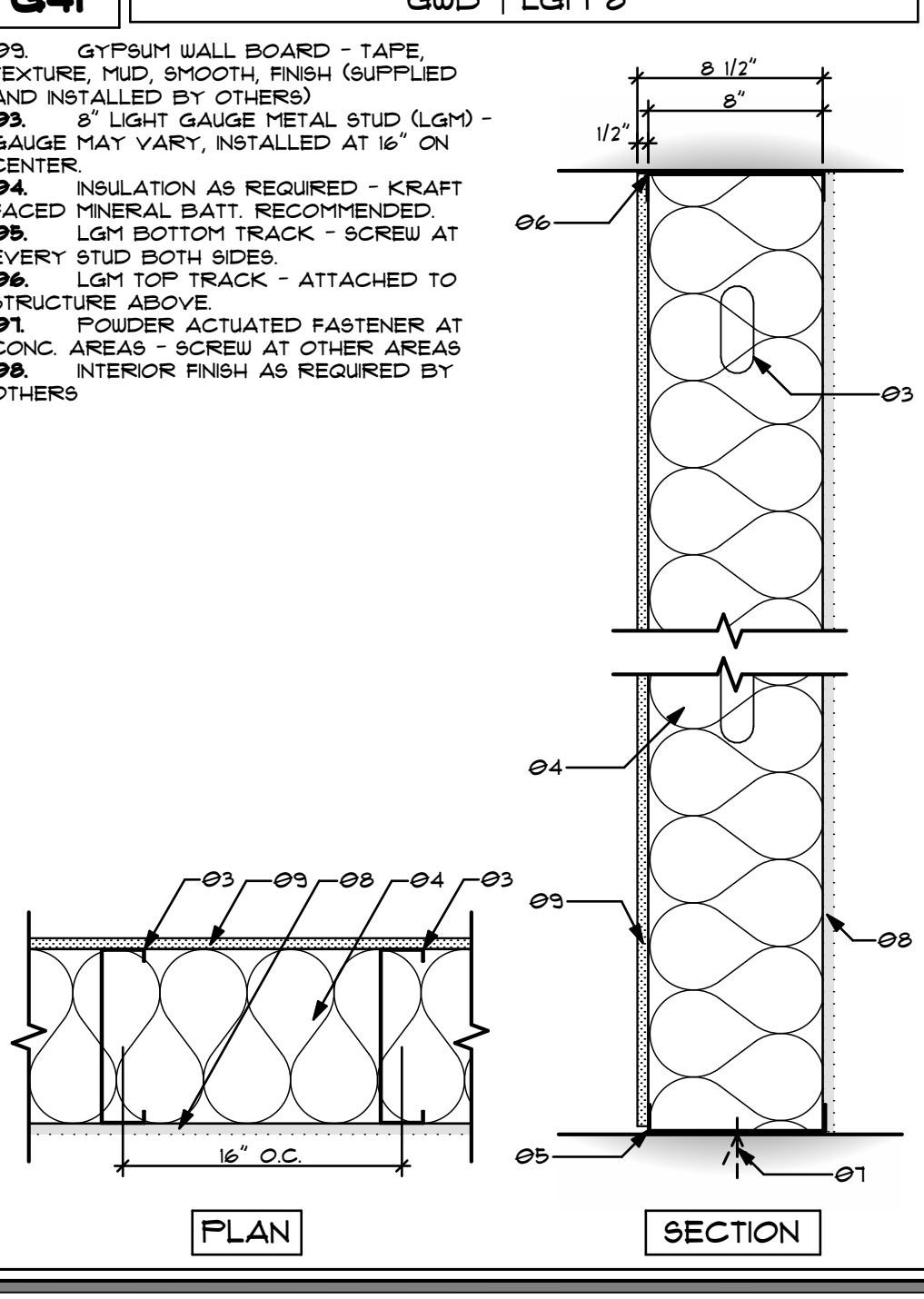
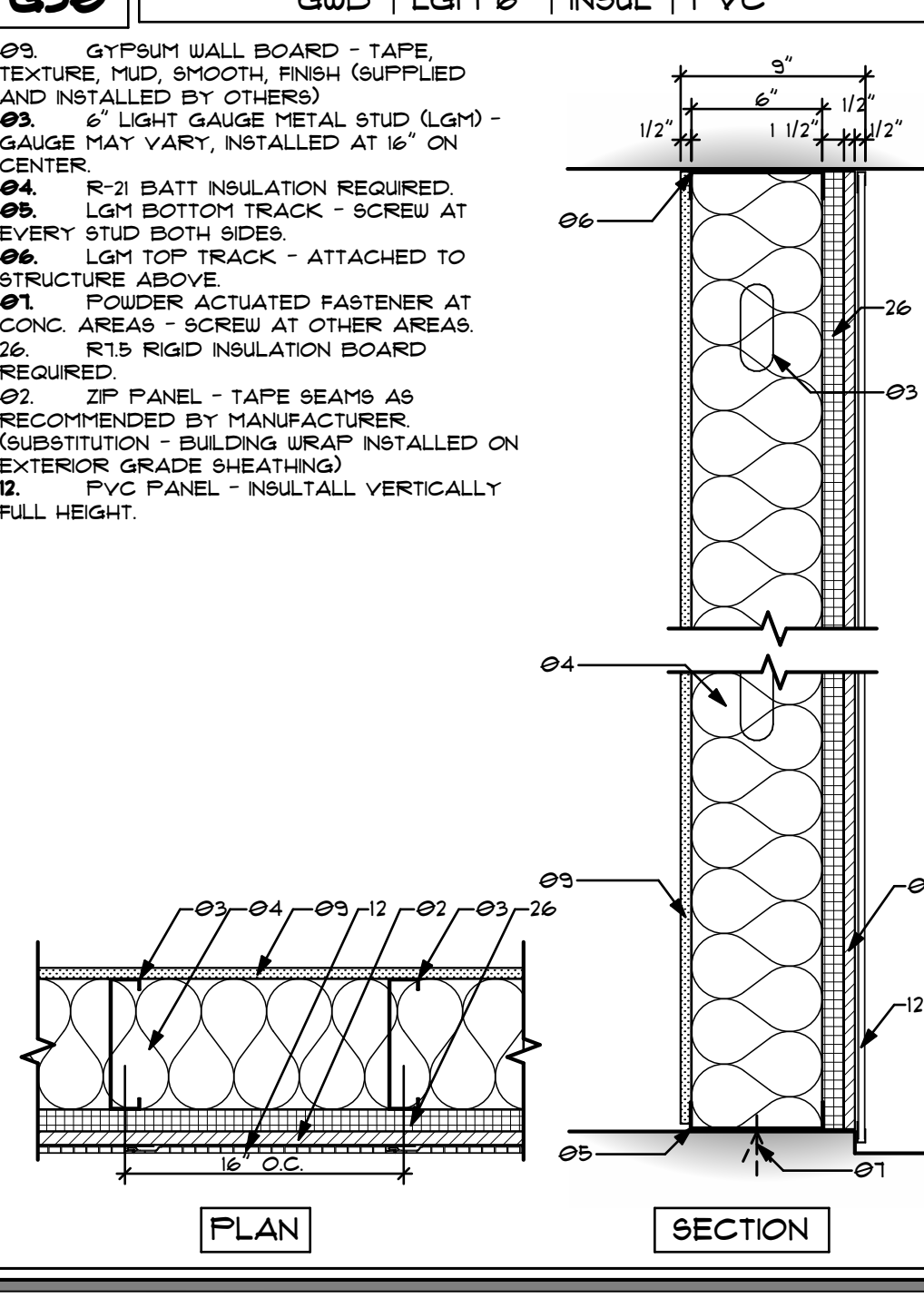
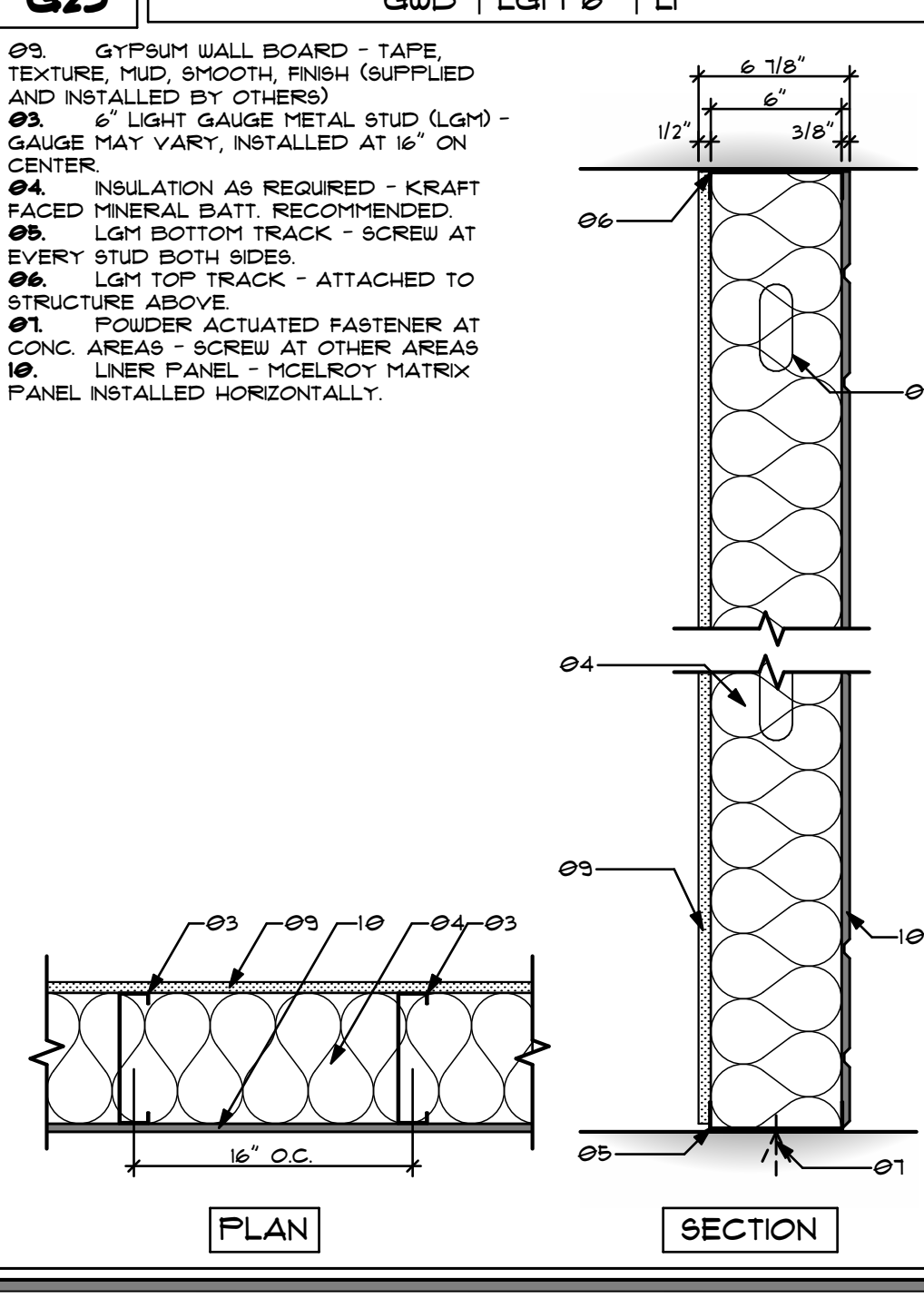
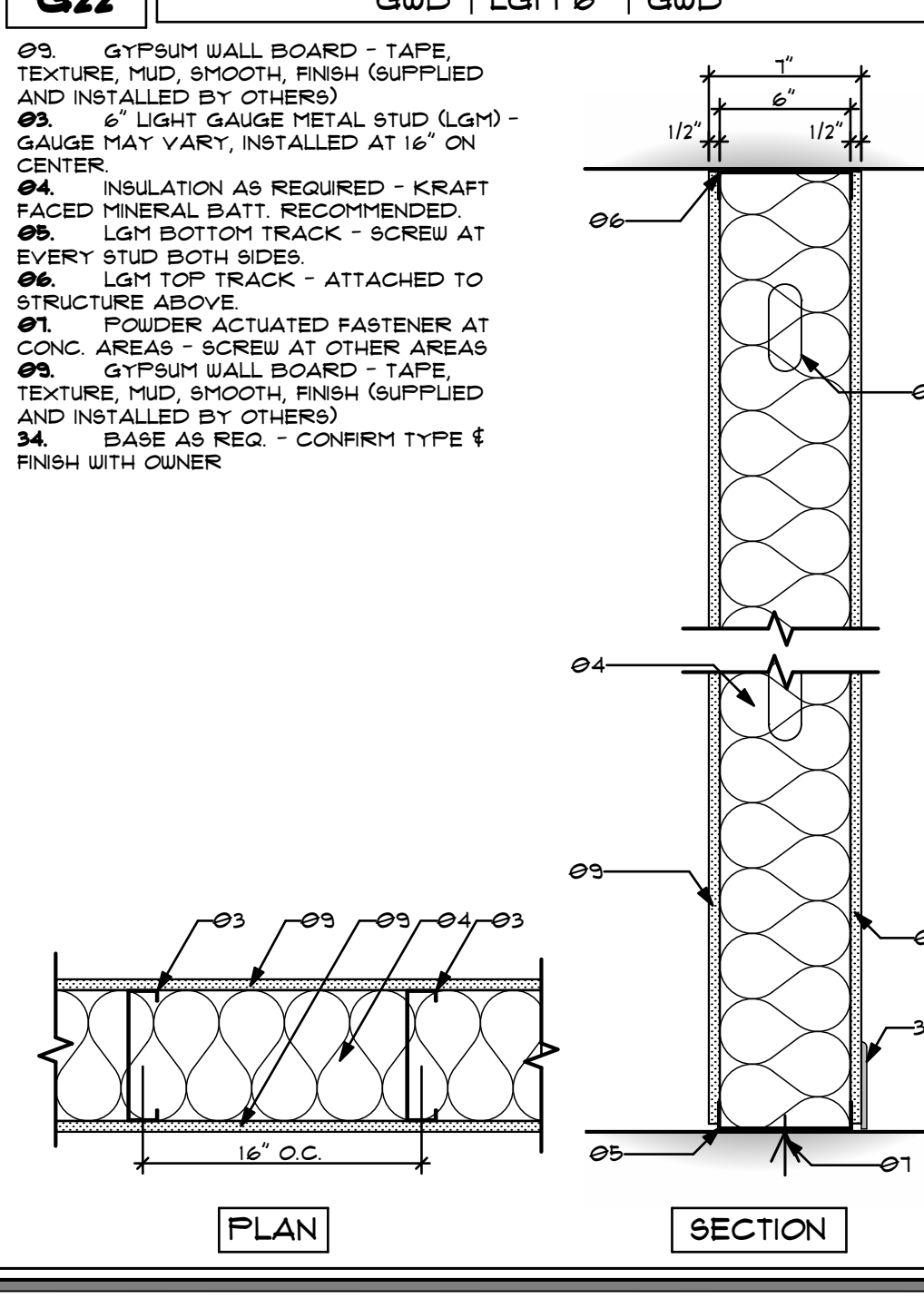
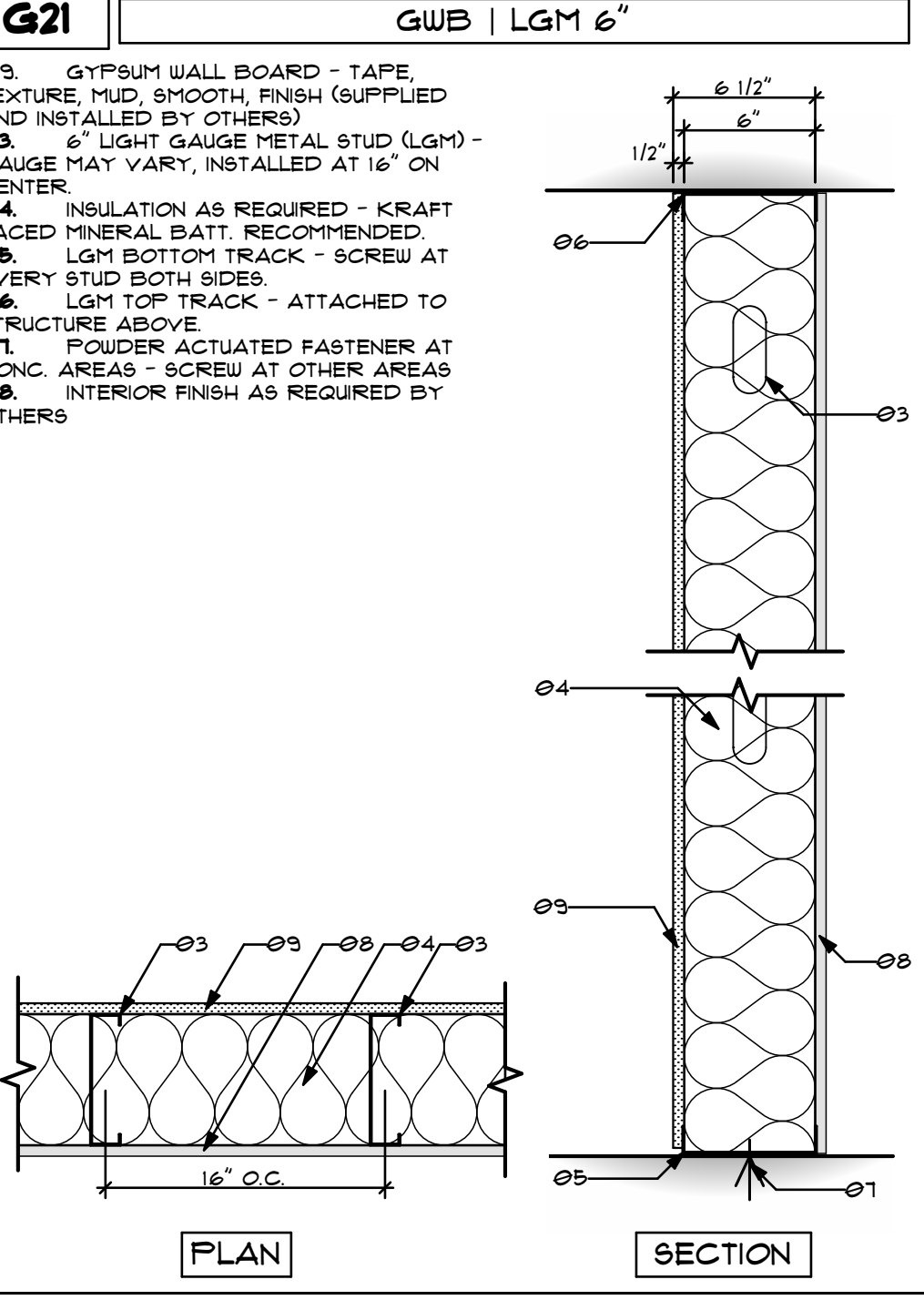
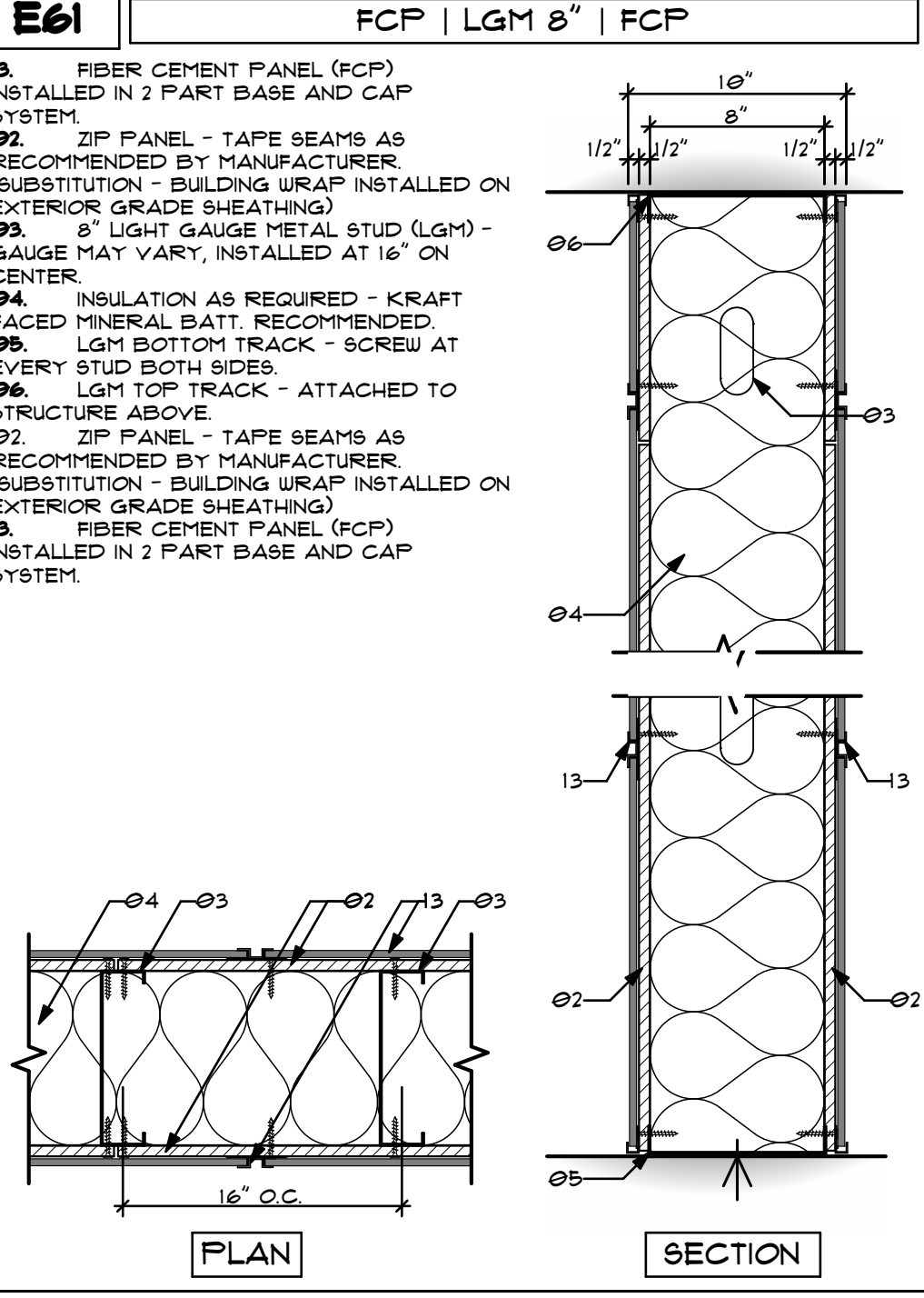
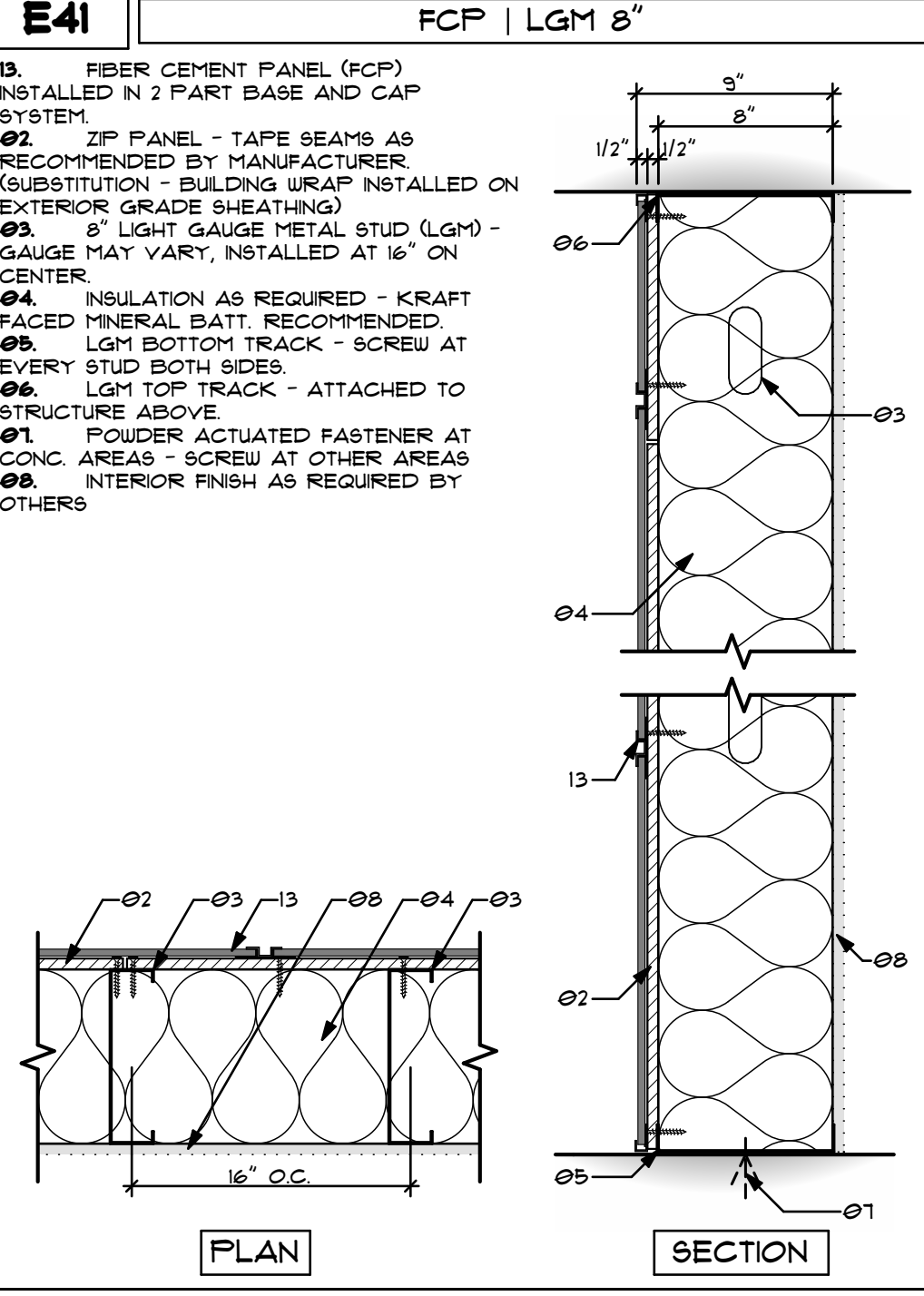
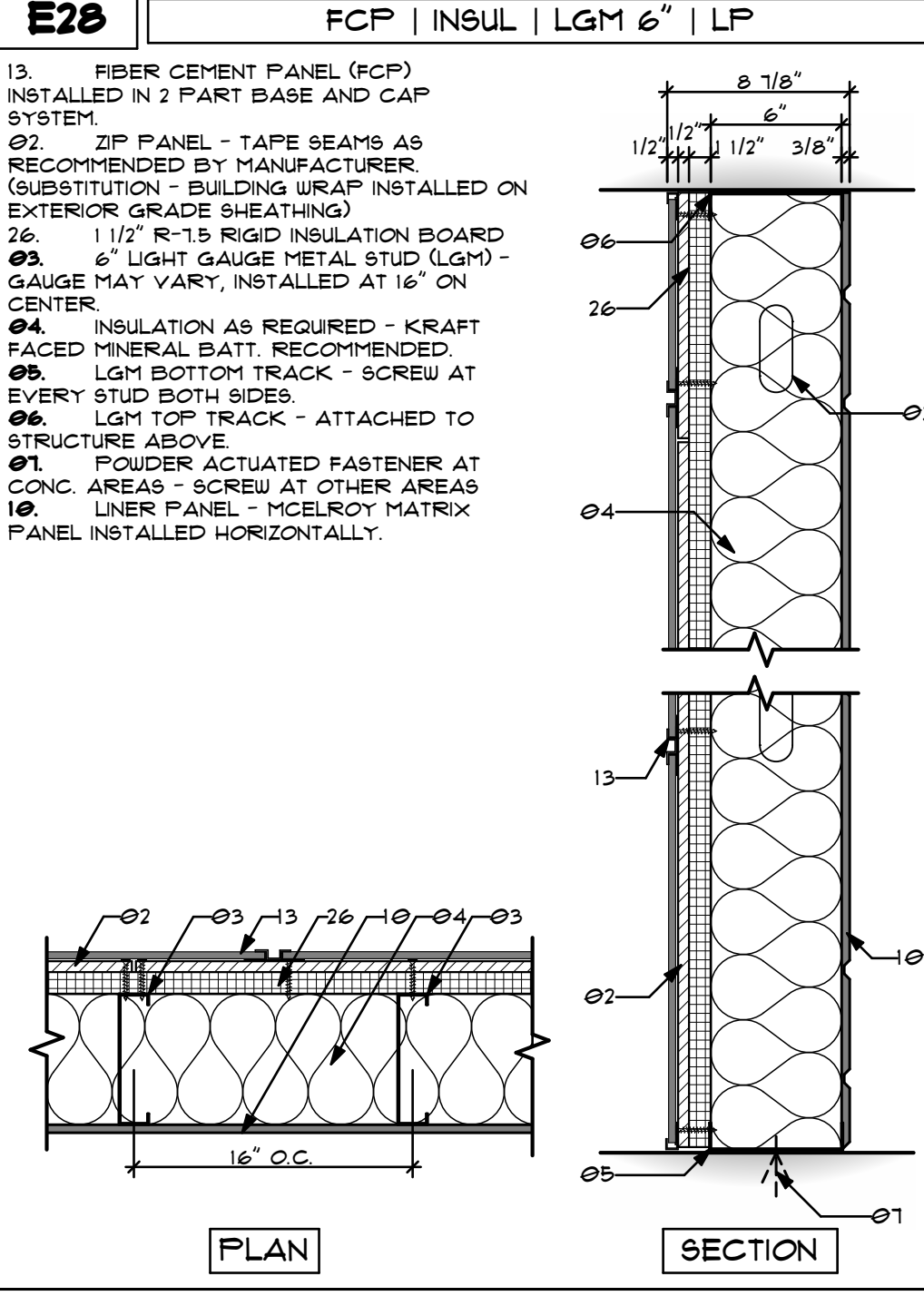
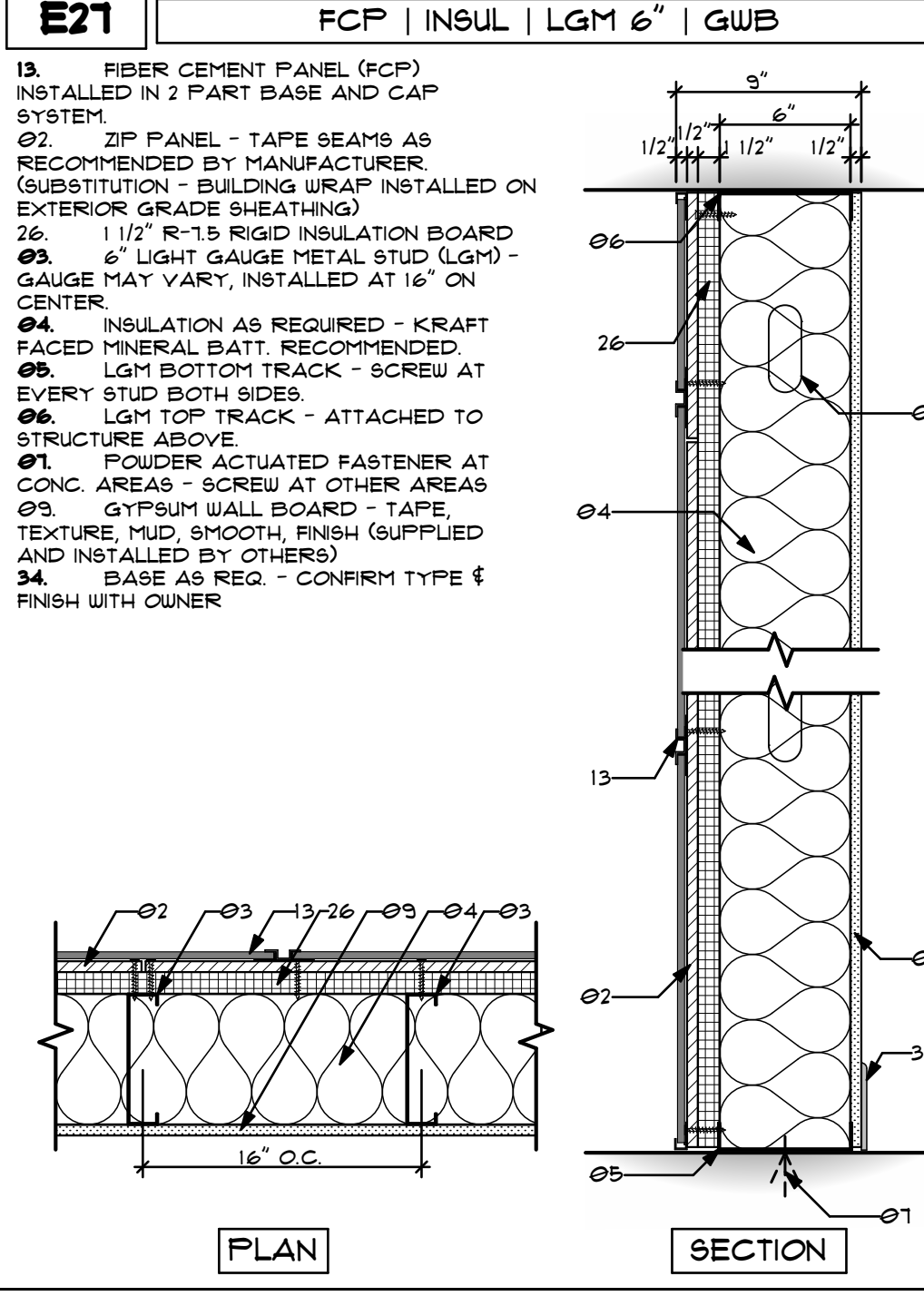


WALL TYPES GENERAL NOTES:

ERECTION AND INSTALLATION BY OTHERS

NOT ALL NOTES LISTED BELOW APPLY TO EVERY PROJECT.

- NOT ALL WALL TYPES SHOWN MAY BE USED IN THIS PROJECT. CONFIRM TYPE WITH WALL TYPE SYMBOLS ON PLANS AND SECTIONS
- ALL FULL HEIGHT LIGHT GAUGE METAL STUD FRAMING SHALL BE BRACED TO THE ROOF STRUCTURE AND SHALL NOT BE FASTENED IN ANY WAY TO THE ROOF PANELS OR DECK.
- SEE FLOOR PLAN AND SECTION WALL TYPE SYMBOLS FOR WALL LOCATIONS, HEIGHTS, AND ADDITIONAL INFORMATION.
- TRACK GAUGE TO MATCH STUD GAUGE.
- IF REQUIRED AND/OR INSTALLED, INSULATION IS TO BE CONTINUOUS FROM FLOOR TO DECK/CEILING ABOVE.
- FRAMING CONTRACTOR SHALL PROVIDE SOLID BLOCKING CONCEALED IN WALLS AND ROUGH OPENINGS, AS REQUIRED, FOR MILLWORK SUPPORT, GRAB BARS, CLOSET SHELVING/RODS, TOILET ACCESSORIES, ETC.
- IF SUSPENDED CEILING IS USED, ALL NON-FULL HEIGHT INTERIOR PARTITIONS ARE TO BE BRACED TO CEILING/FLOOR OR ROOF STRUCTURE ABOVE.
- ALL SHEATHING/SUBSTRATE IS TO BE INSTALLED BASED ON THE MANUFACTURERS RECOMMENDATIONS. CONFIRM EDGE SPACING WITH MANUFACTURERS SPECIFICATIONS.
- 1/2" ZIP PANEL IS SHOWN AS SHEATHING ON ALL WALL TYPES AS REQUIRED. THICKNESS AND TYPE OF SHEATHING MAY BE SUBSTITUTED BASED ON LOCAL BUILDING CODES (CONFIRM WITH ARCHITECT PRIOR TO MODIFICATION).
- ZIP PANELS CONTAIN A BUILT-IN VAPOR BARRIER. INSTALL TAPE AND SEAL BASED ON MANUFACTURERS INSTALLATION GUIDE AND SPECIFICATIONS.
- EXTEND PVC PANEL DOWN FAST EDGE OF SLAB. 1" OR MORE RECOMMENDED. 4" MAX.
- UNLESS OTHERWISE NOTED, ALL LGM WALL STUDS ARE TO BE 18 GA.
- UNLESS OTHERWISE NOTED, ALL LGM FLOOR/CEILING JOISTS ARE TO BE 12 GA.



REVISIONS

NO.	DATE	DESCRIPTION
0	4/4/22	FOR PERMIT

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MODERNWASH 2022
 ILLUMINATED DESIGNS 2022

modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104

Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:

STARWASH EXPRESS

925 LOCKWOOD BLVD
 OYIEDO, FL 32165

PRELIMINARY

DATE OF CREATION:
 10/18/2021

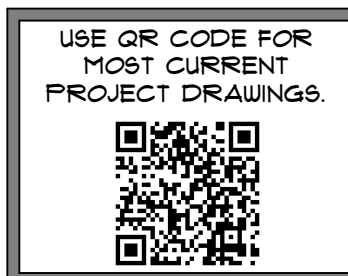
PLOT DATE:
 4/4/22

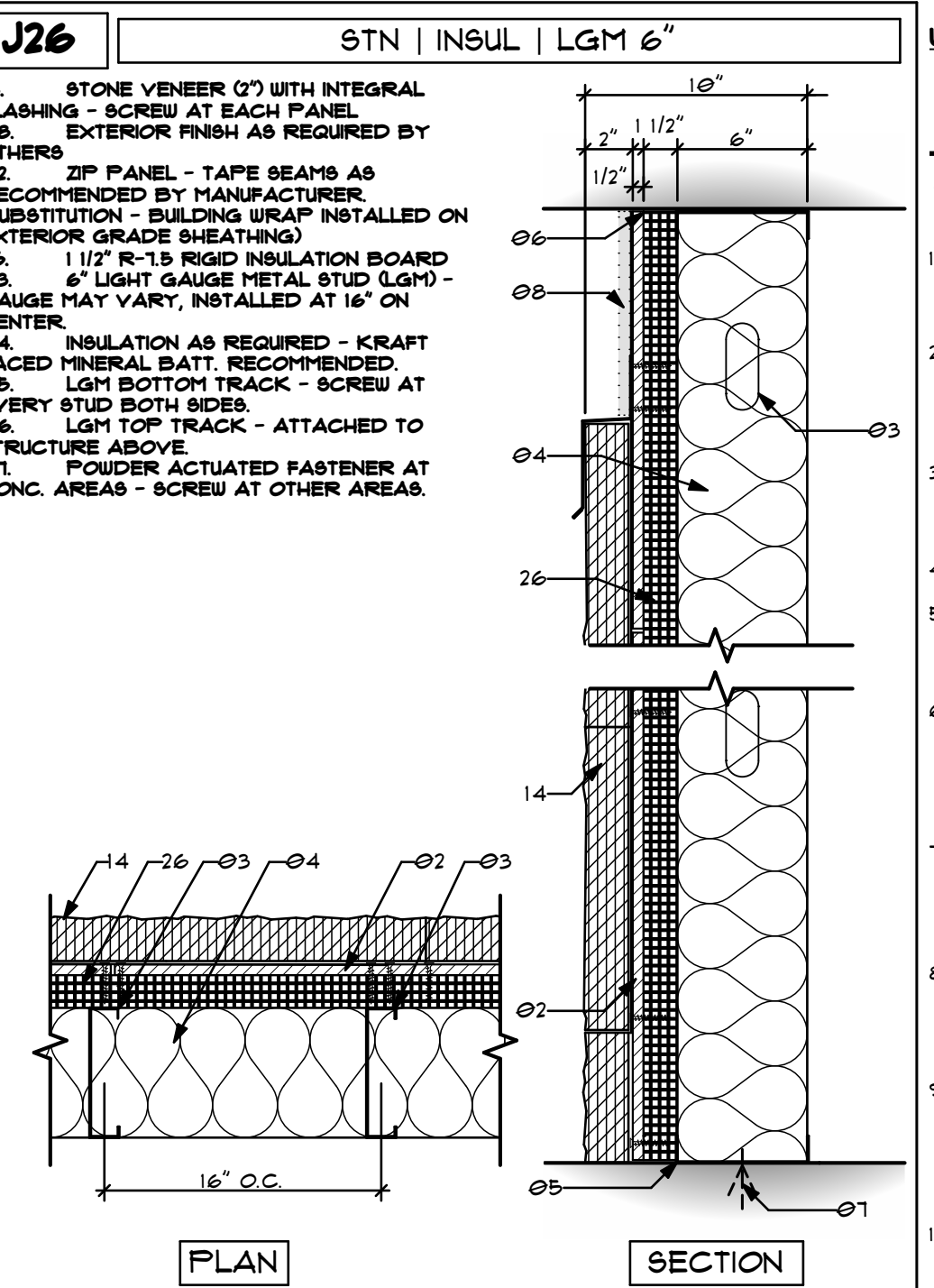
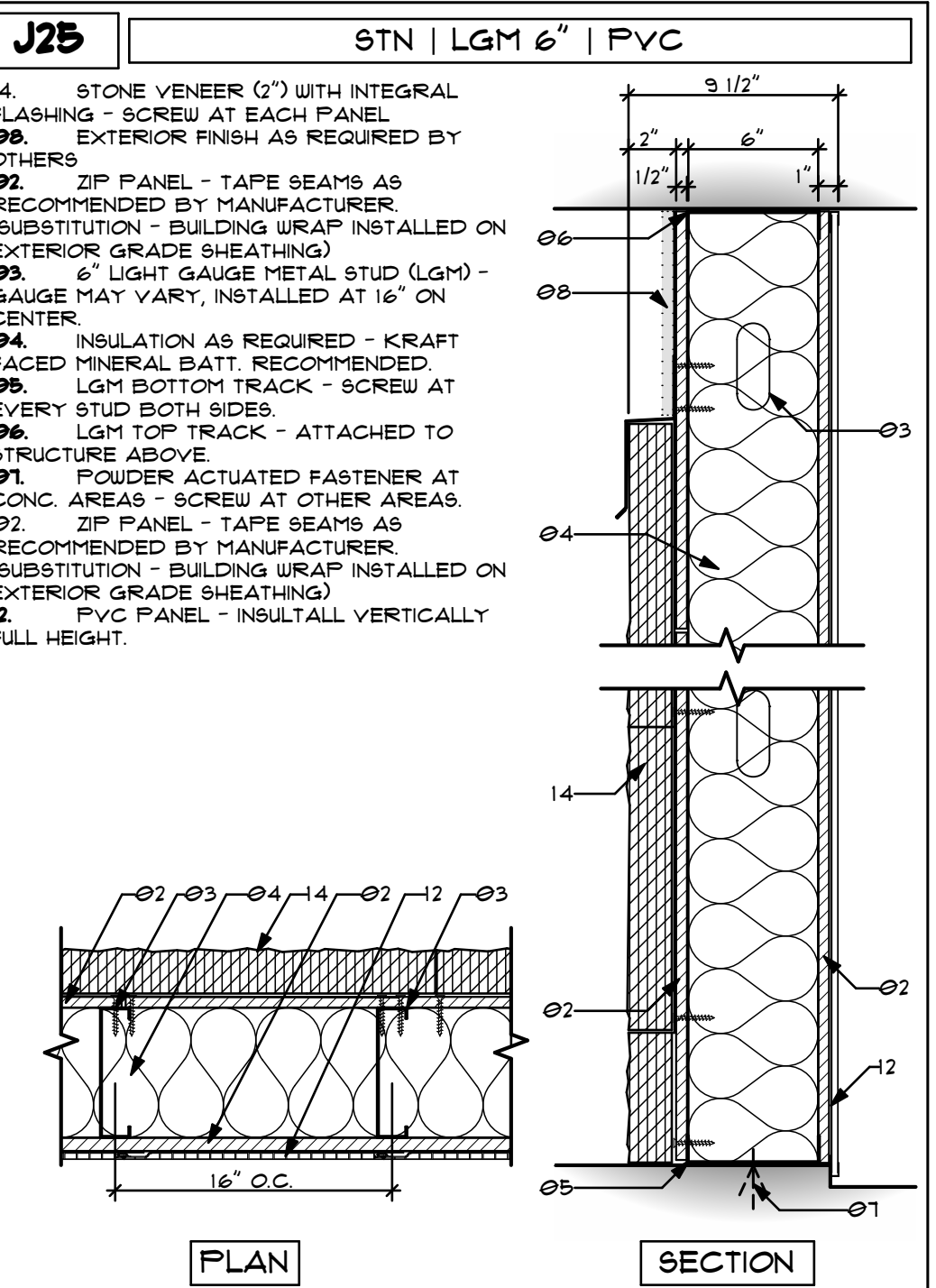
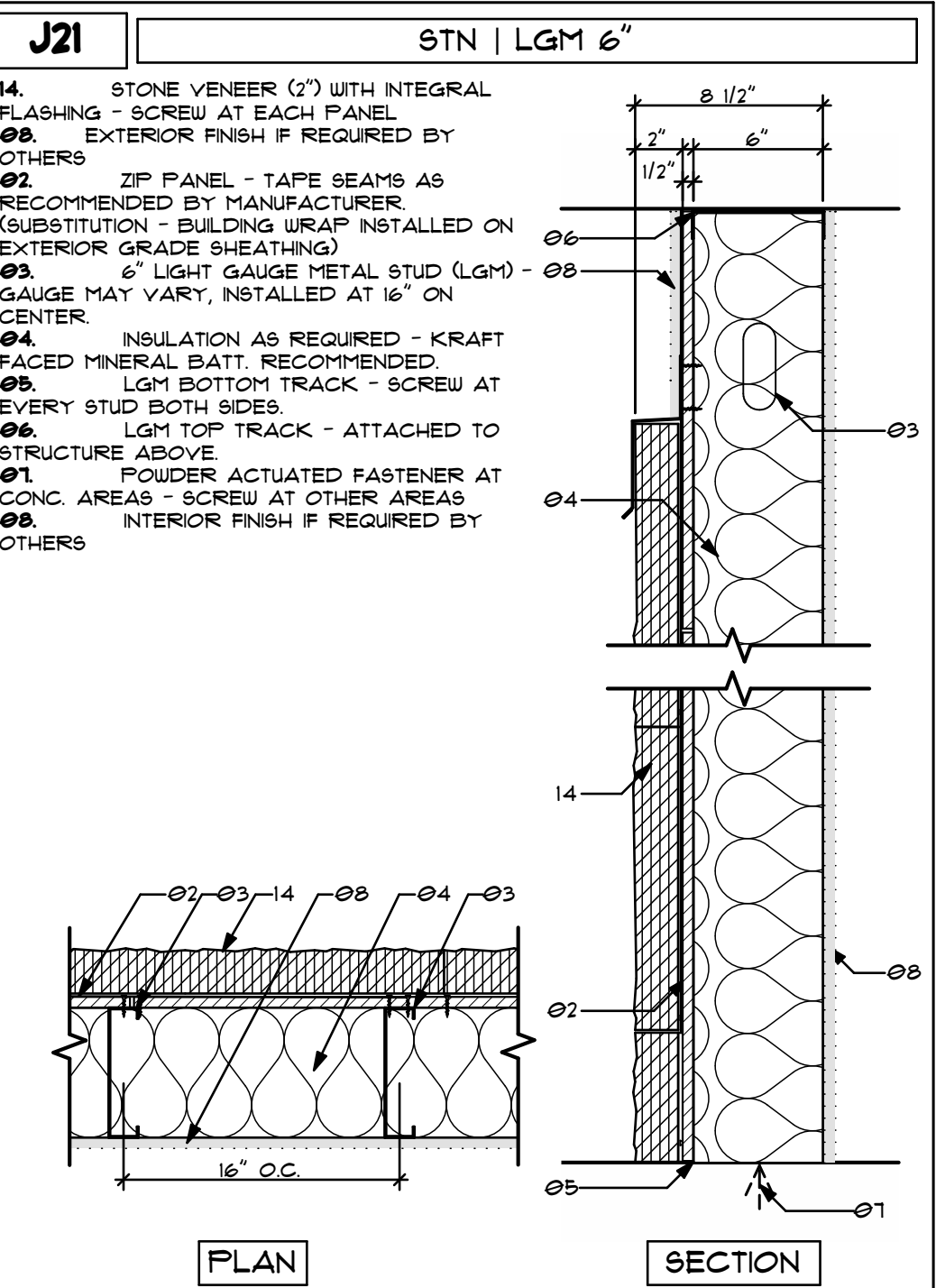
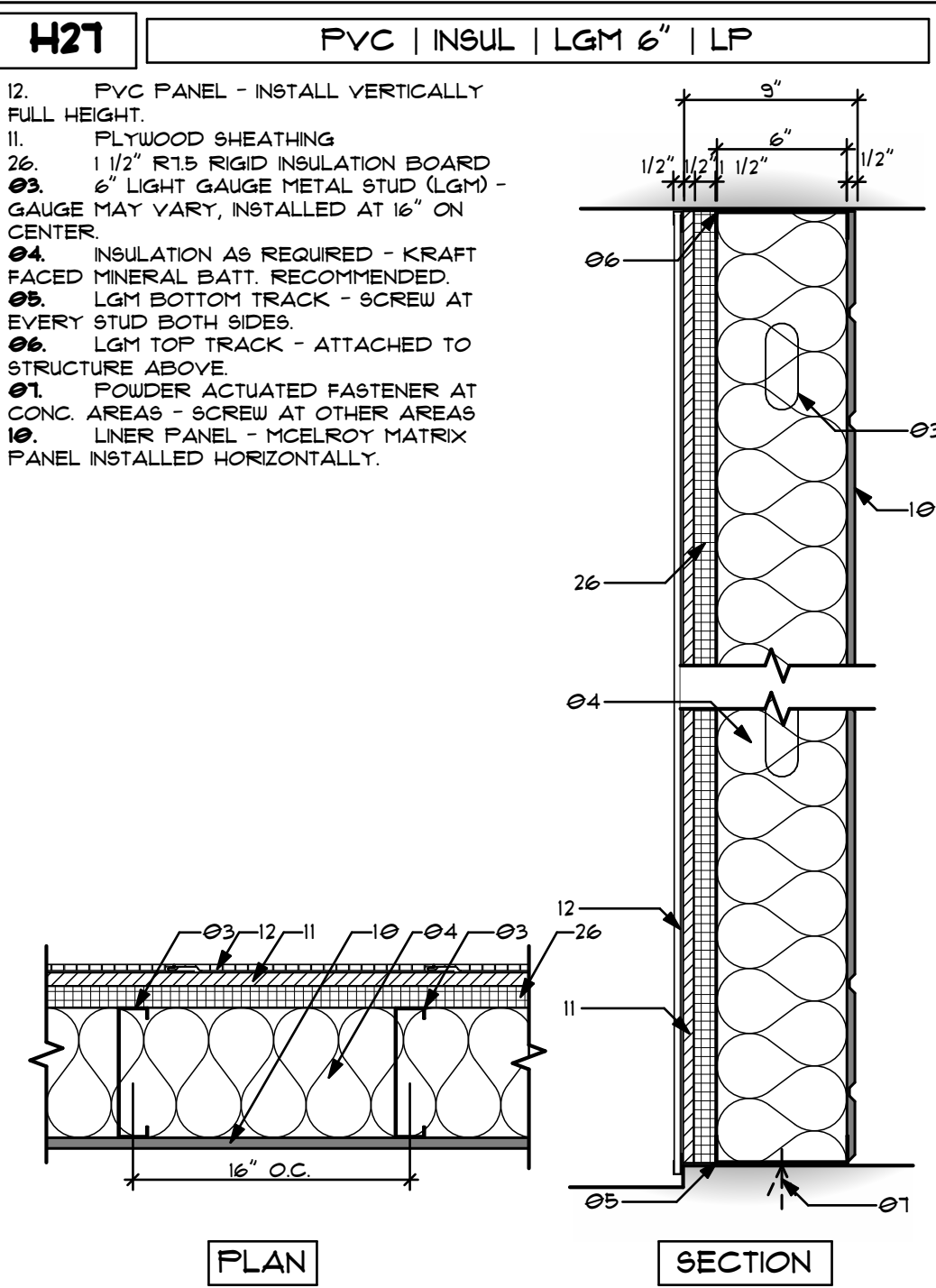
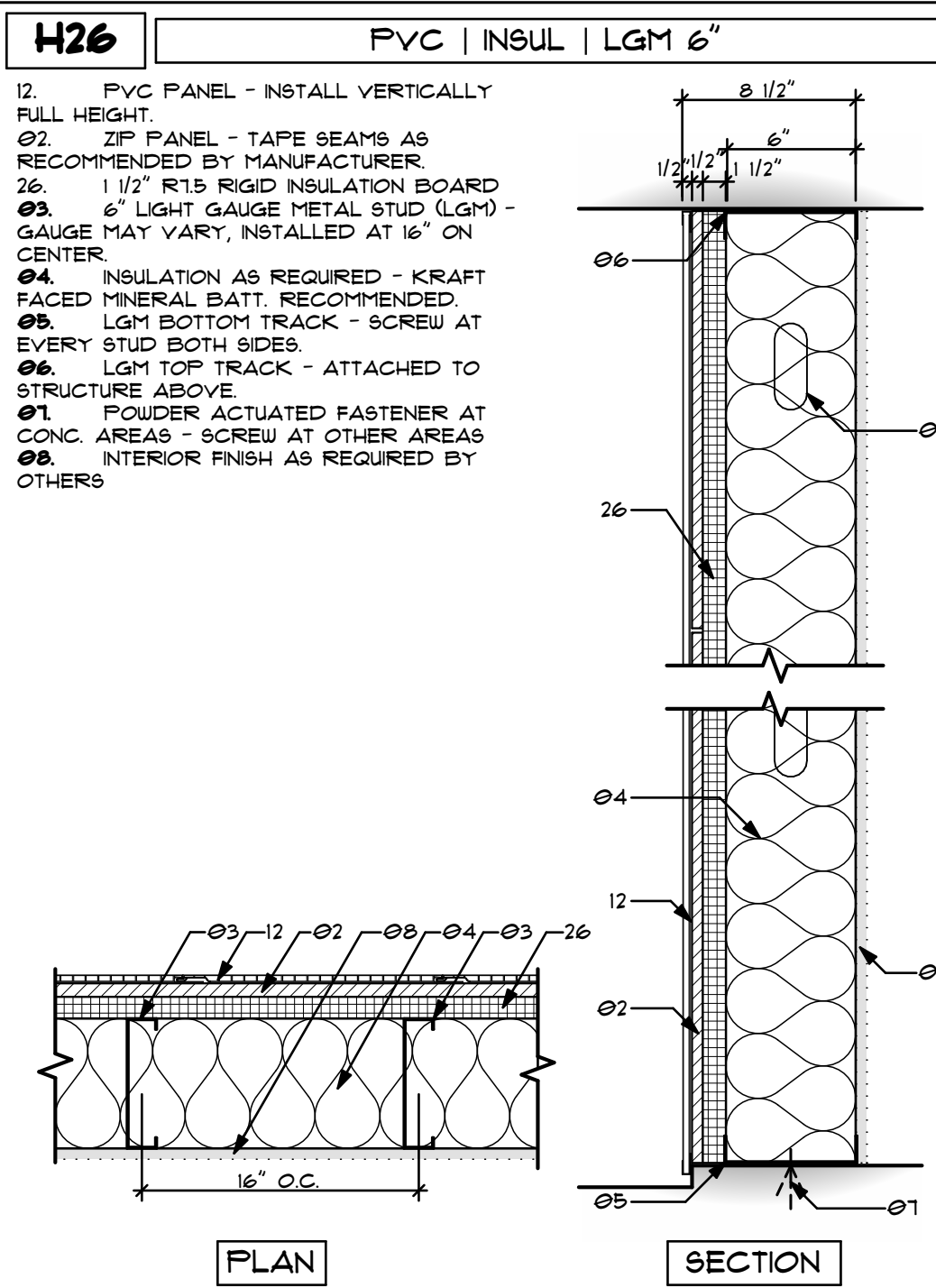
DRAWN BY:
 EWH, MJR

CHECKED BY:
 EWH

SHEET:
 MW-6.1

WALL TYPES



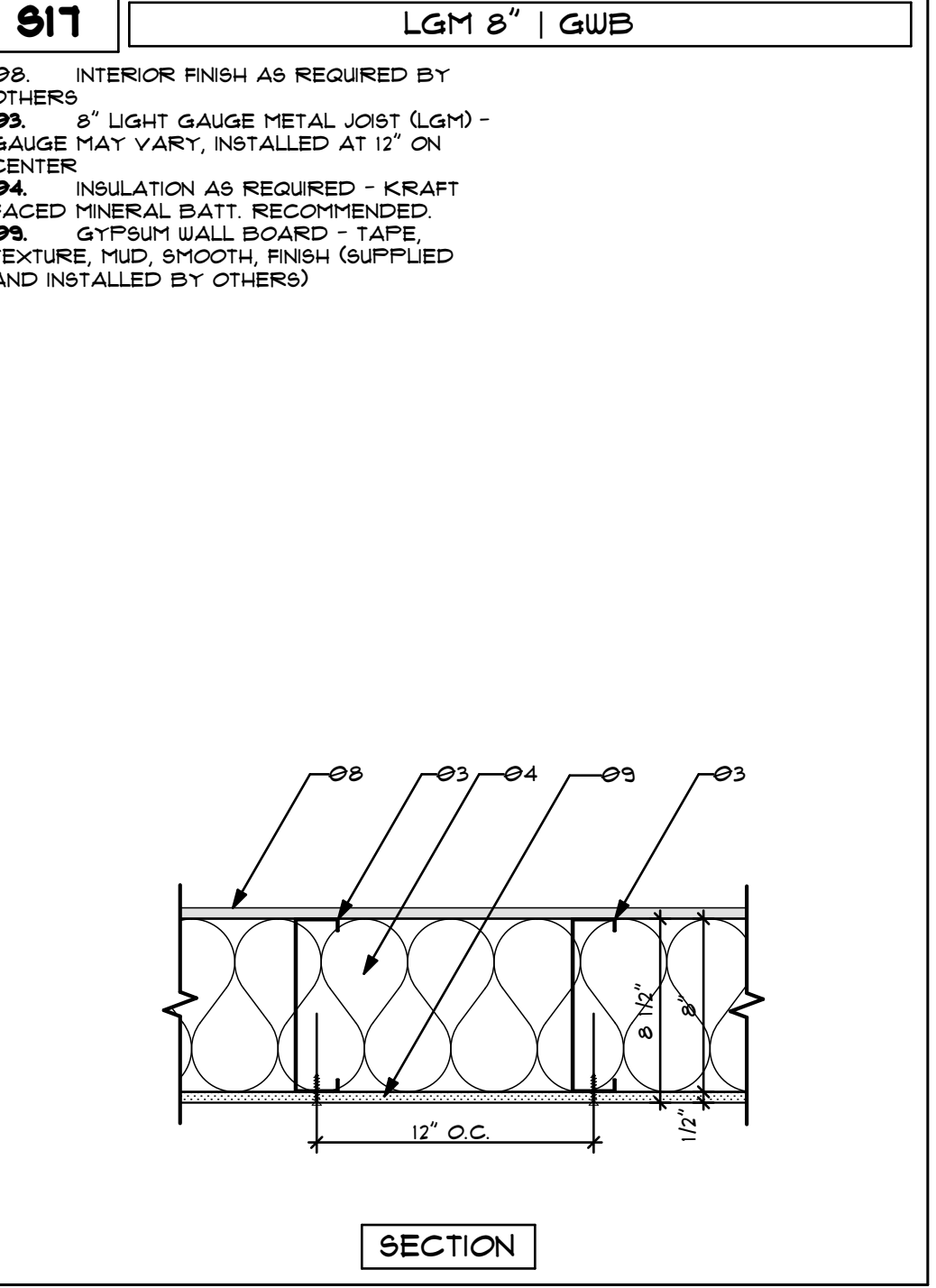
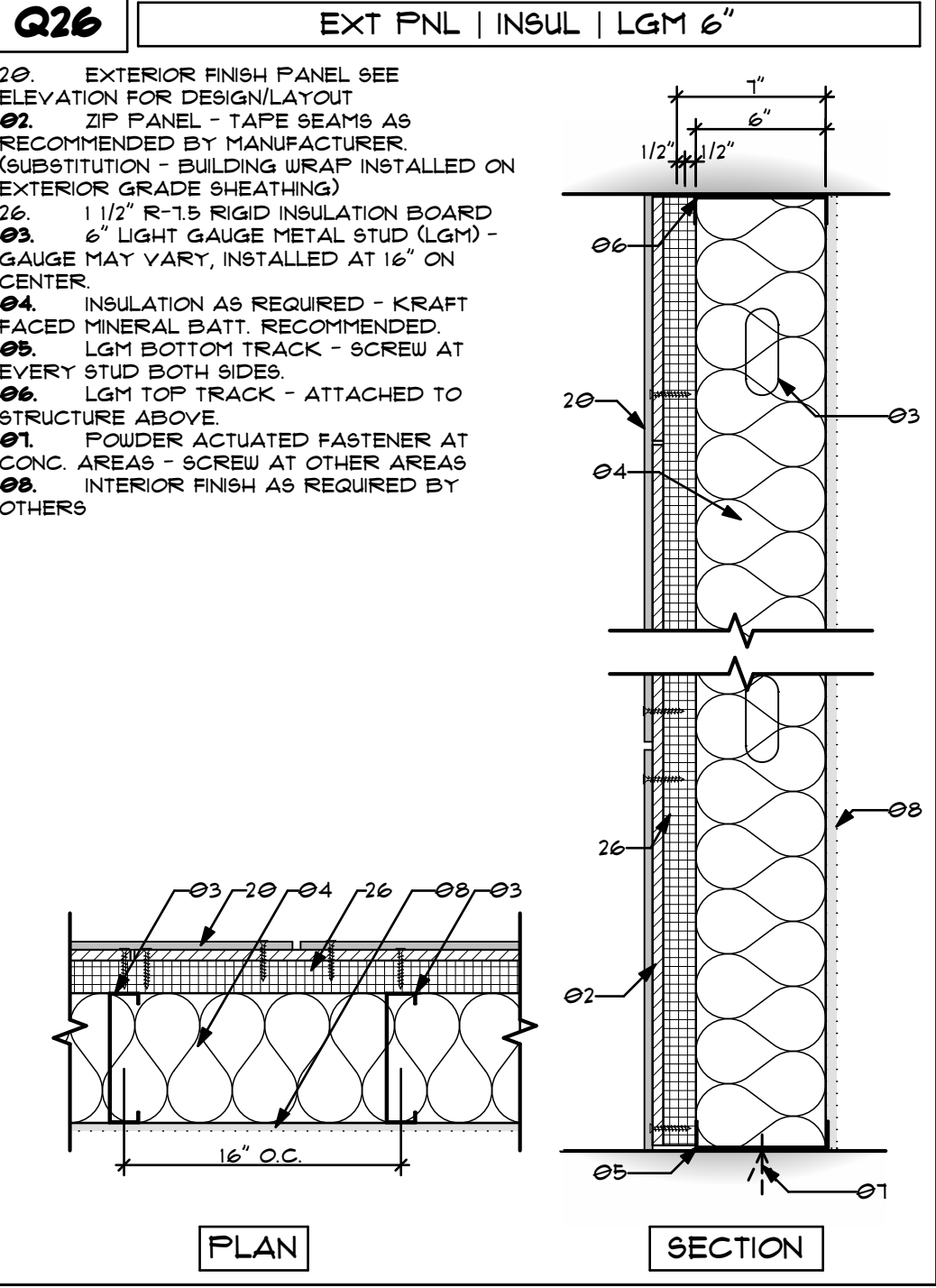
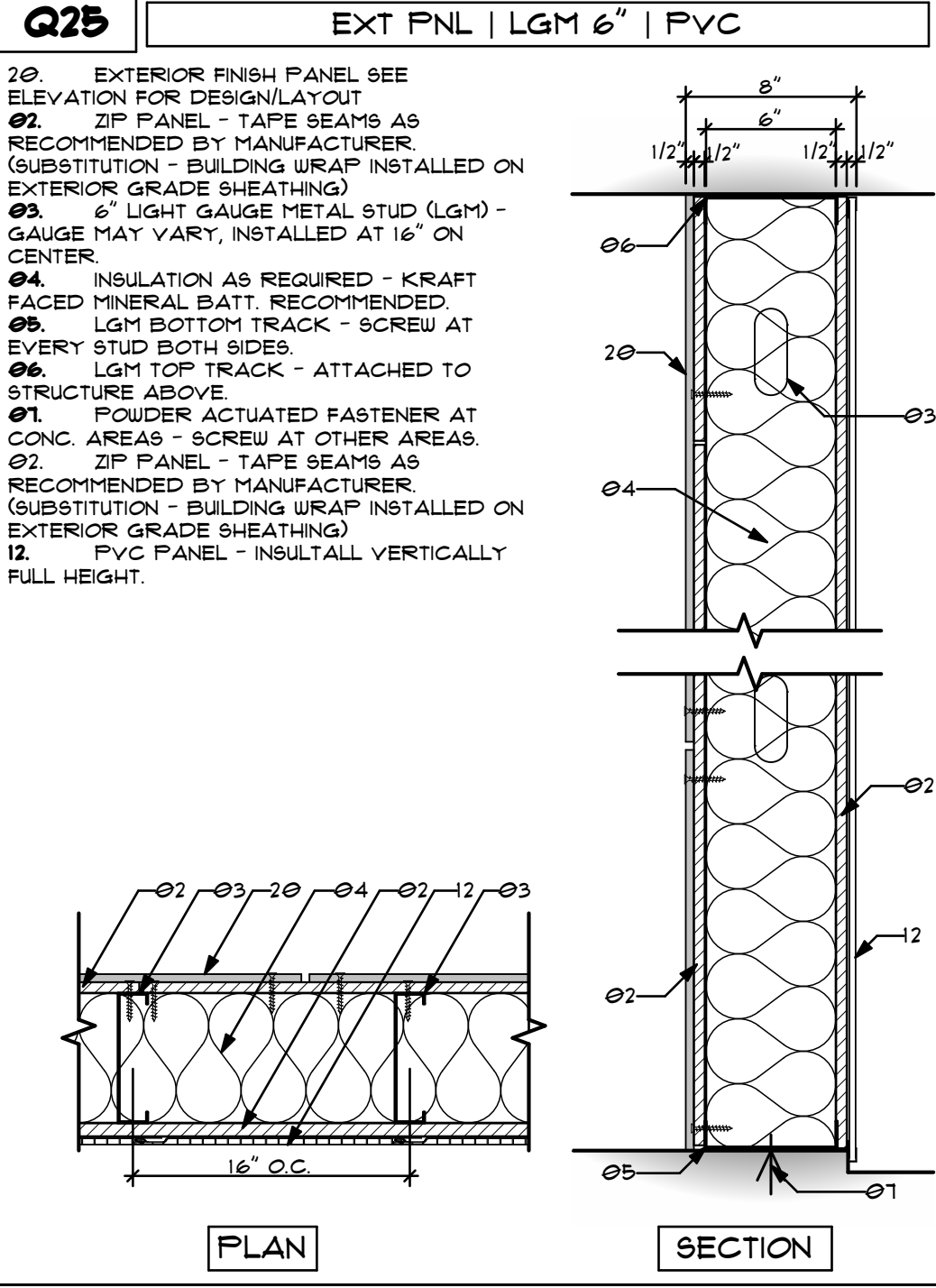
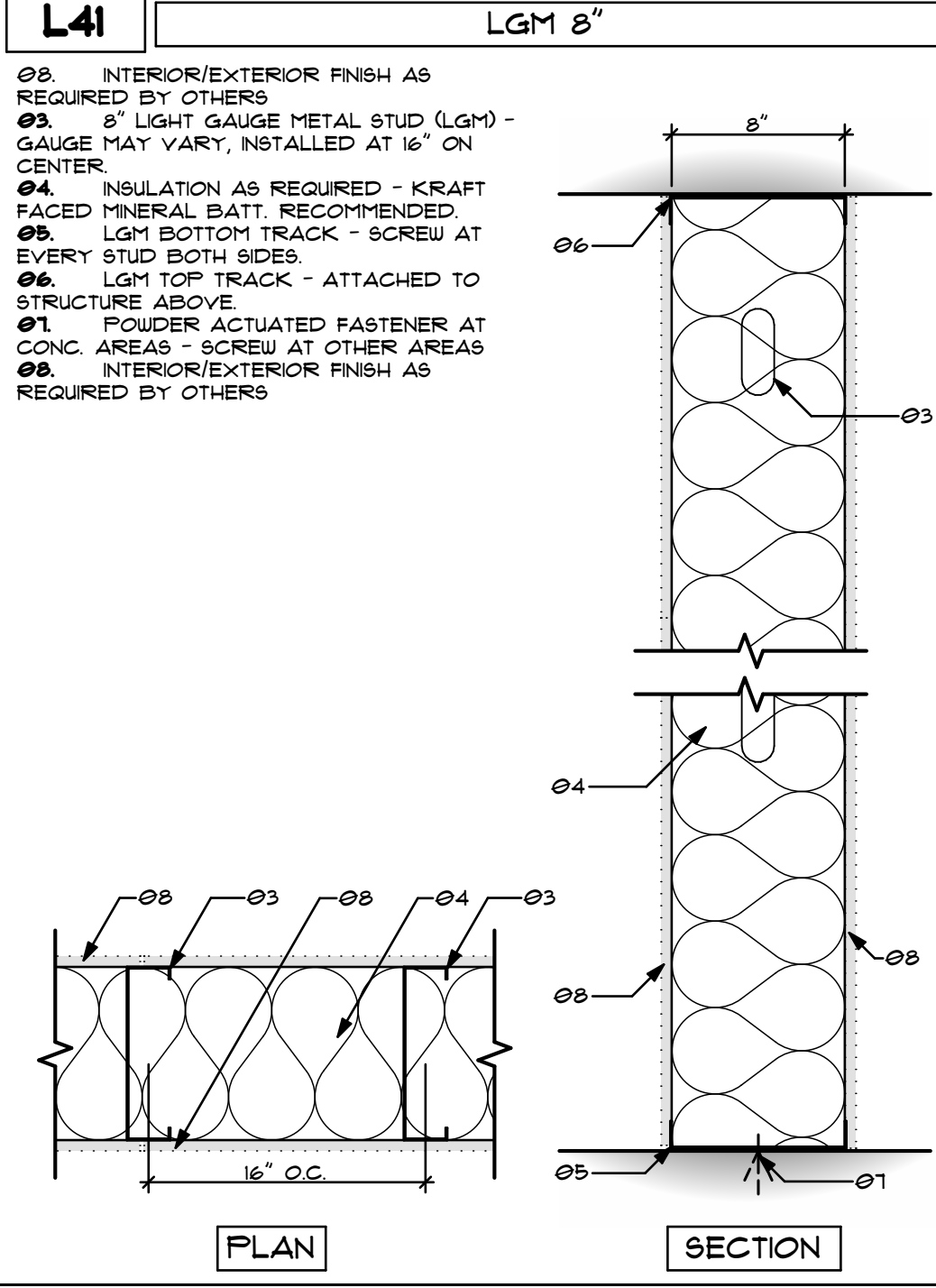
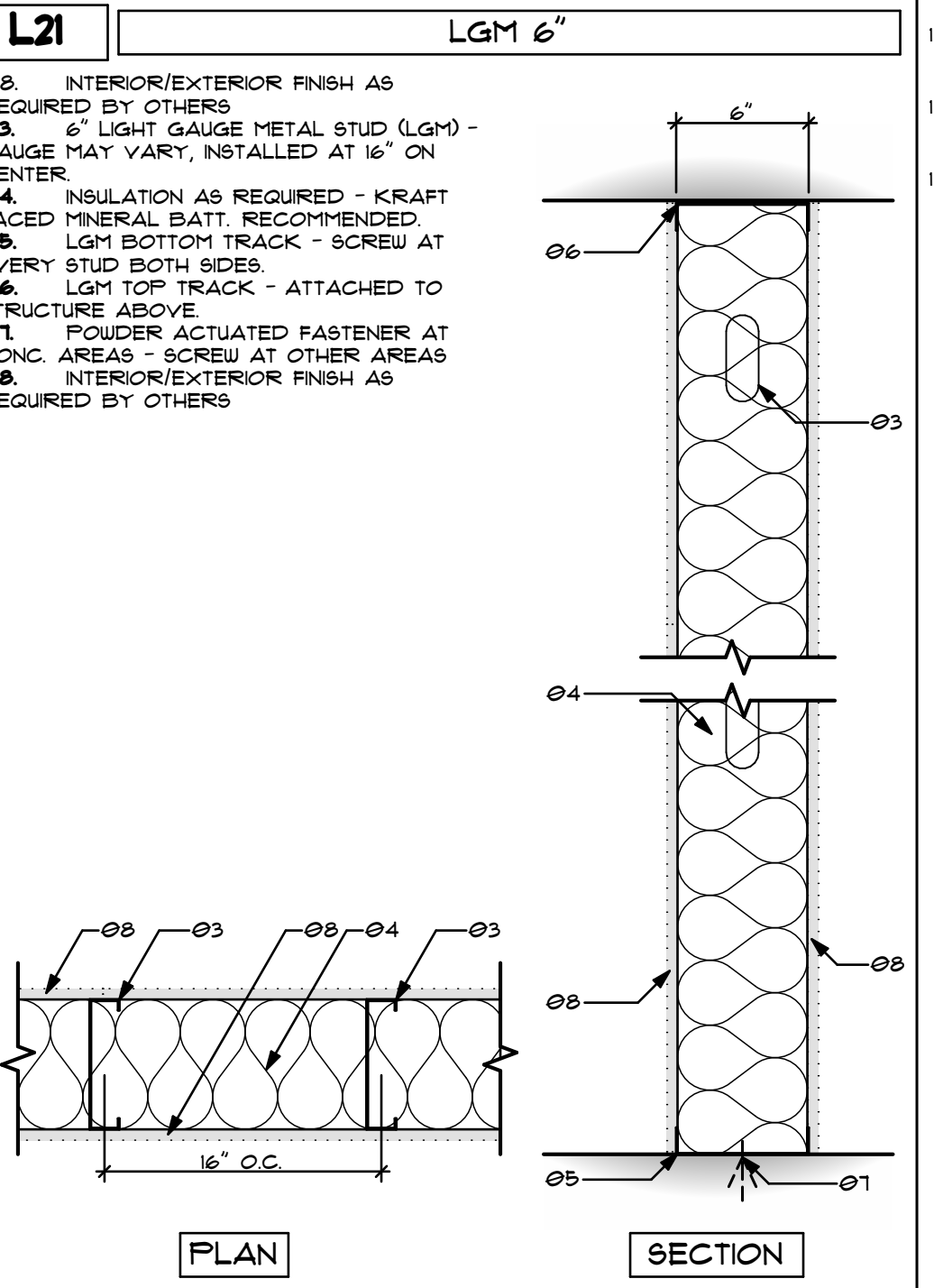
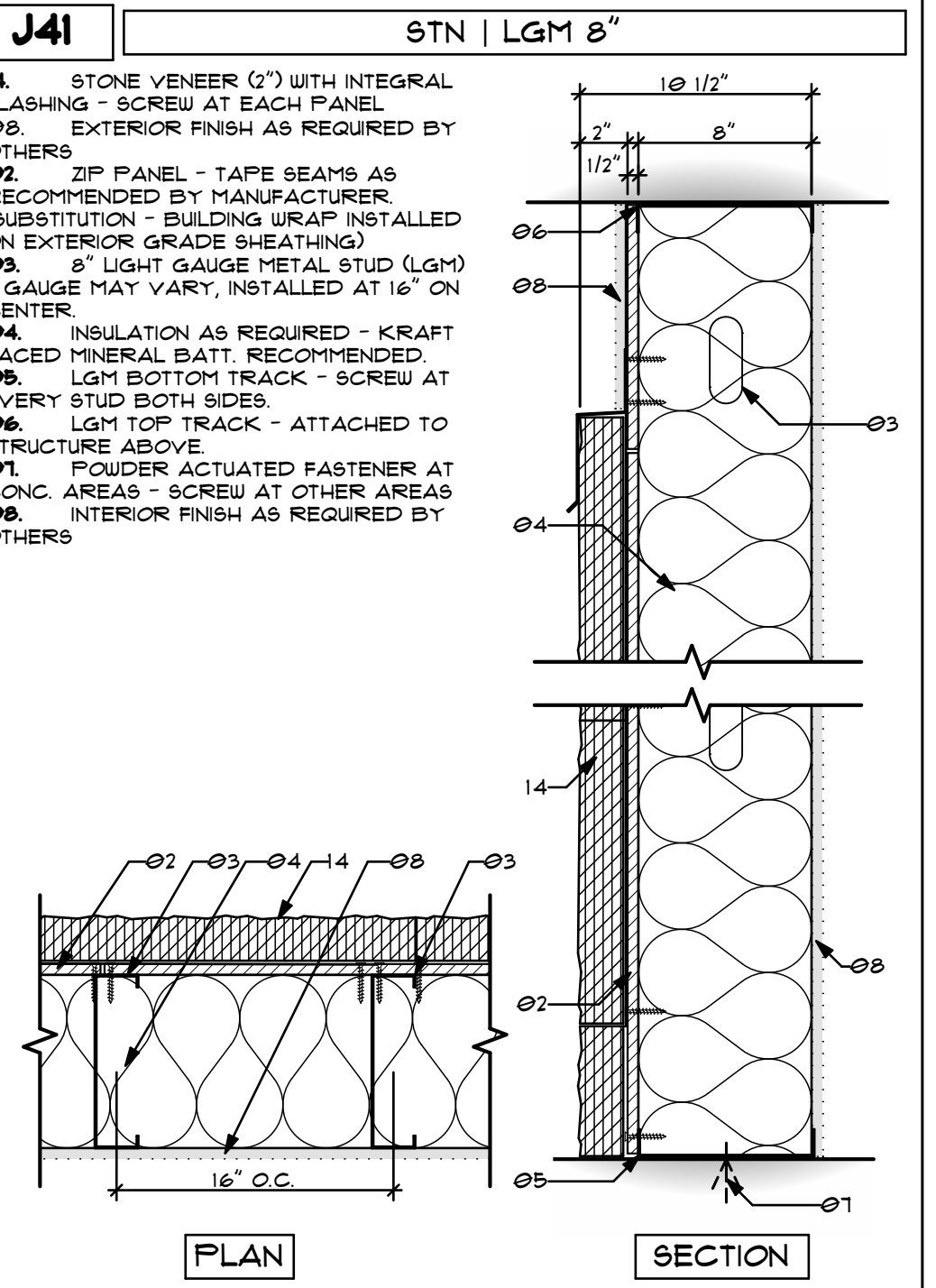
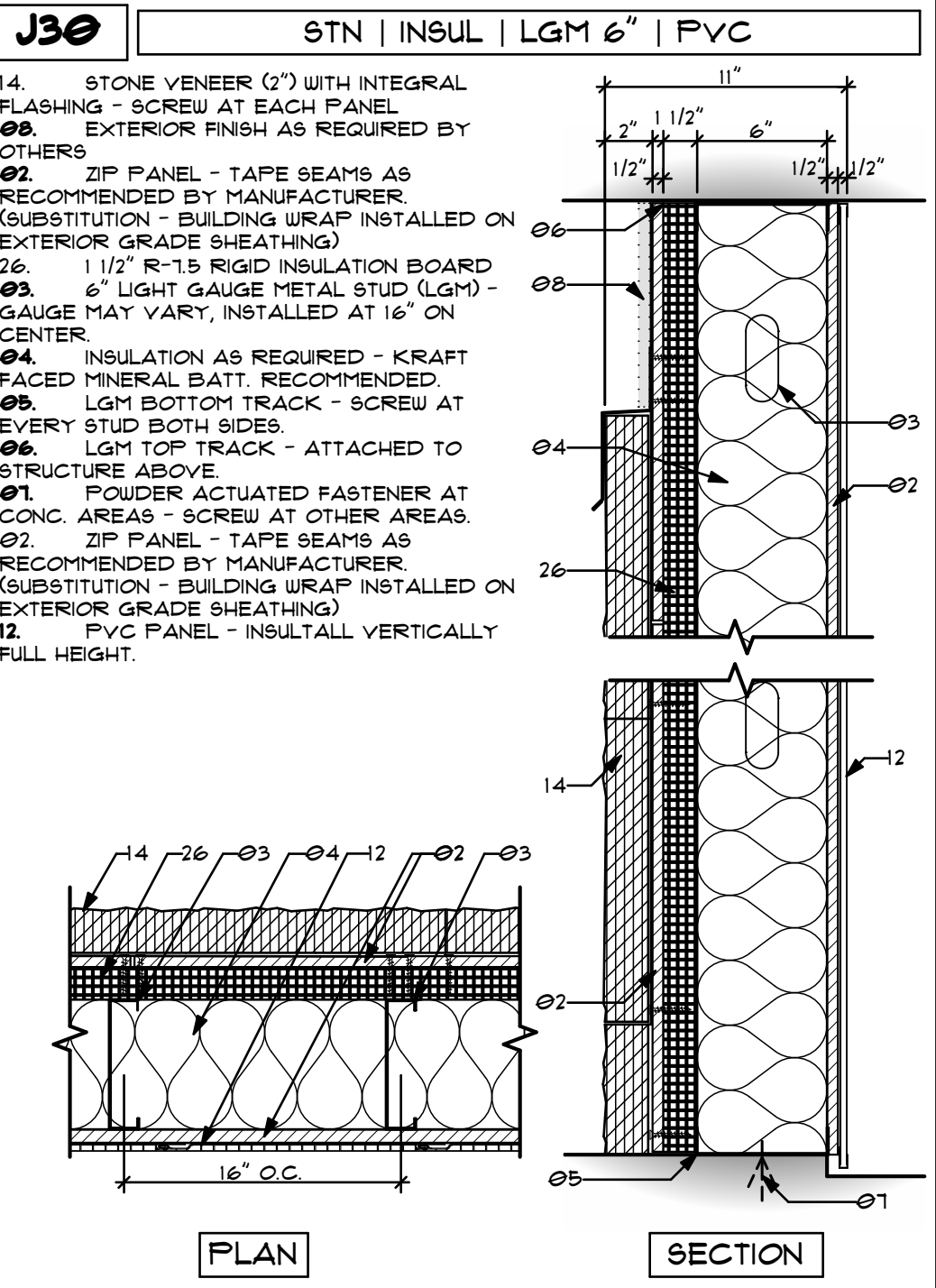
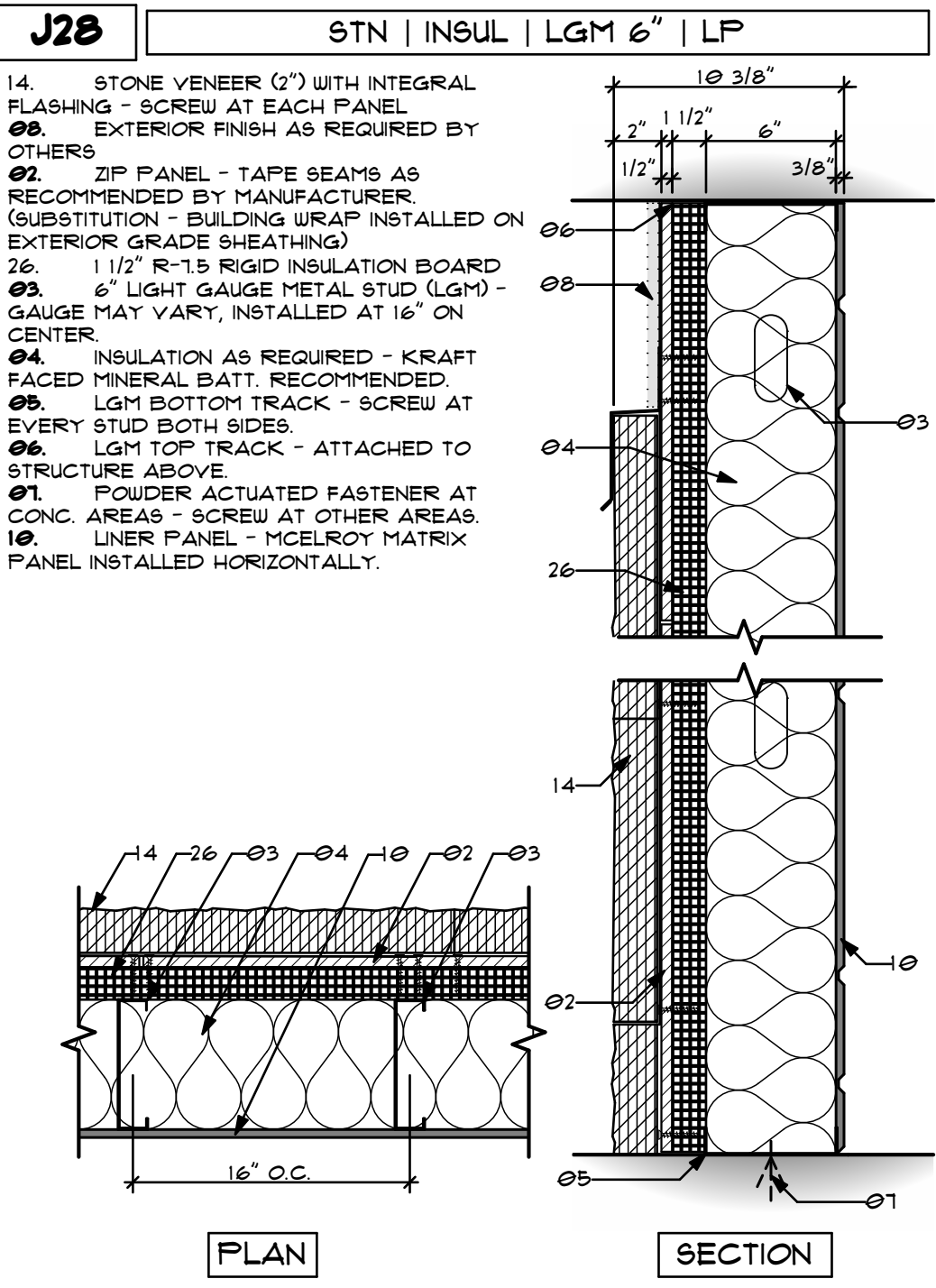
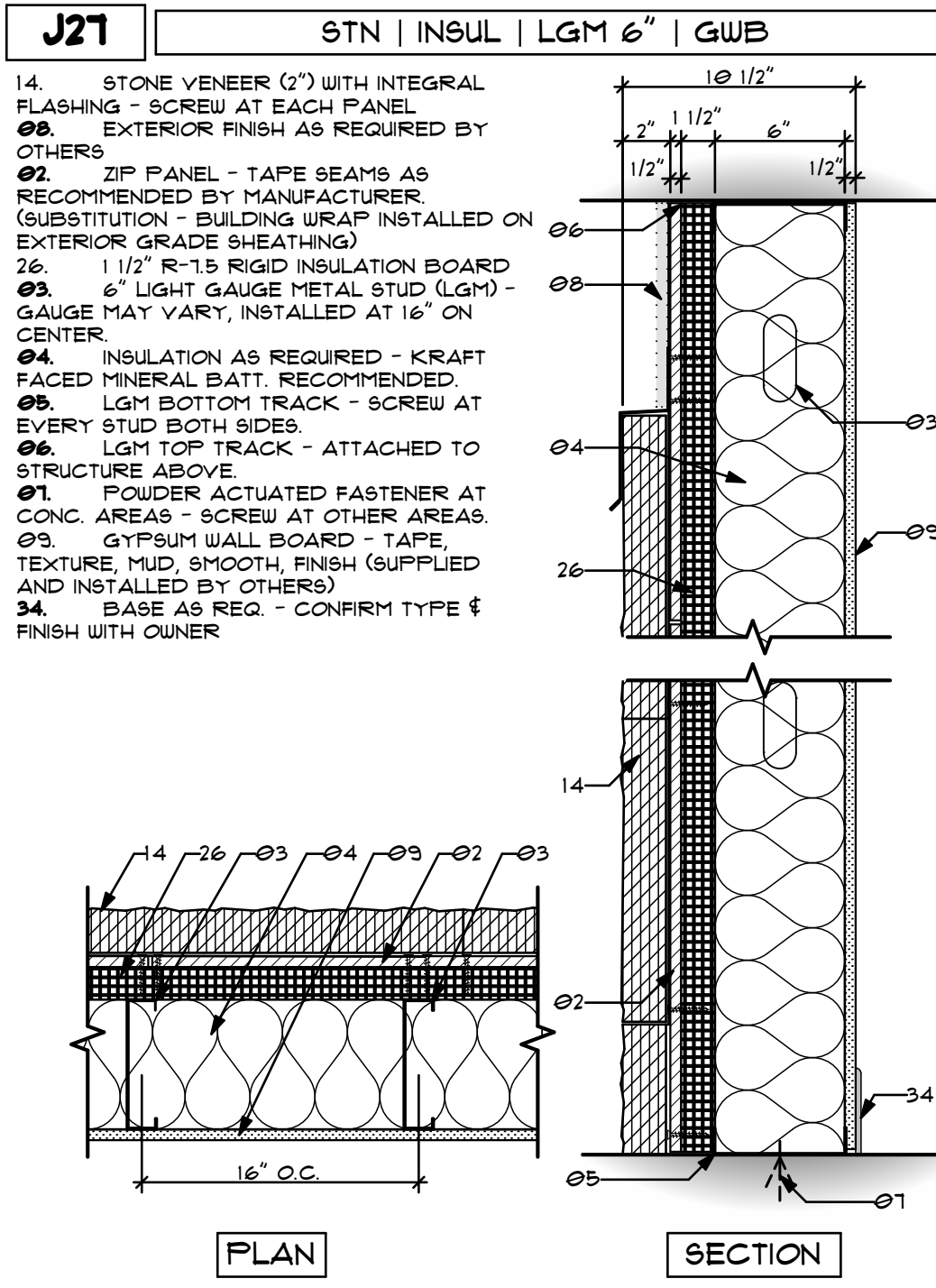


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- UNLESS OTHERWISE NOTED, ALL LGM FLOOR/CEILING JOISTS ARE TO BE 12 GA.



NO.	DATE	DESCRIPTION
1	4/1/22	FOR PERMIT

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DESIGNING INC. 202175 STATE ROAD - OVIEDO, FL 32765

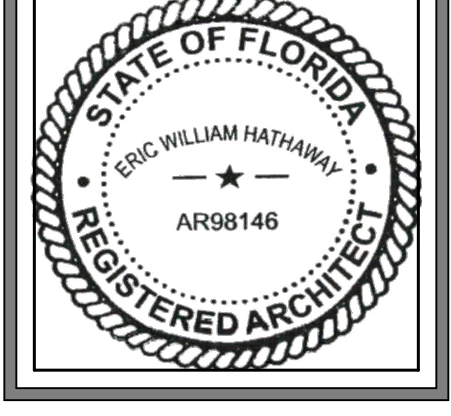
modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104

Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:

STARWASH EXPRESS

925 LOCKWOOD BLVD
 OVIEDO, FL 32765



PRELIMINARY

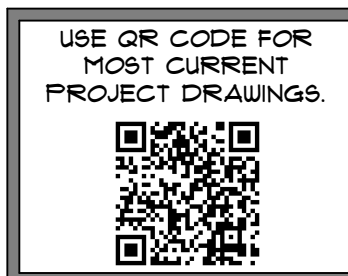
DATE OF CREATION:
 10/18/2021

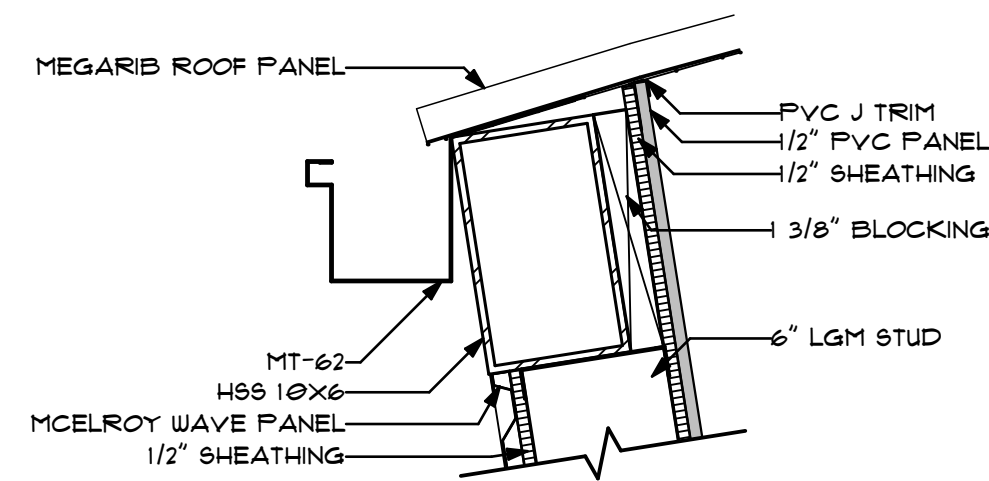
PLOT DATE:
 4/4/22

DRAWN BY:
 EWH, MJR

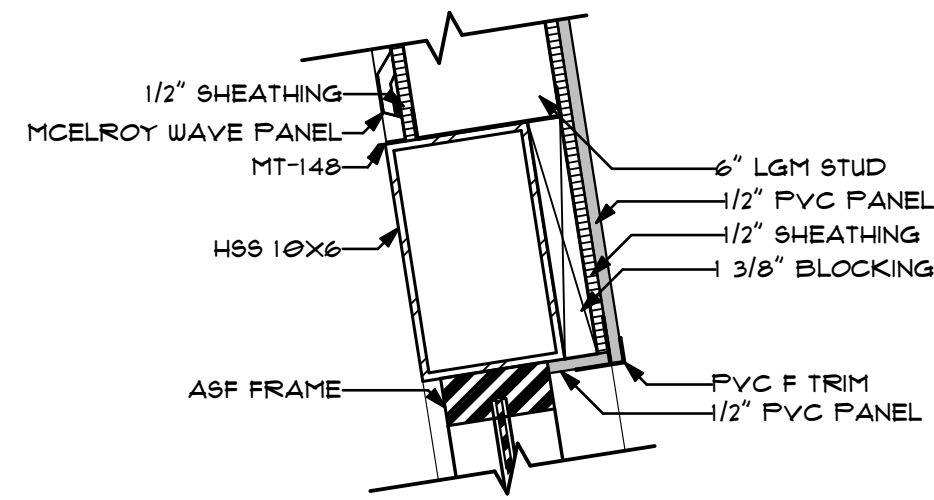
CHECKED BY:
 EWH

SHEET:
 MW-6.2
 WALL/SLAB TYPES

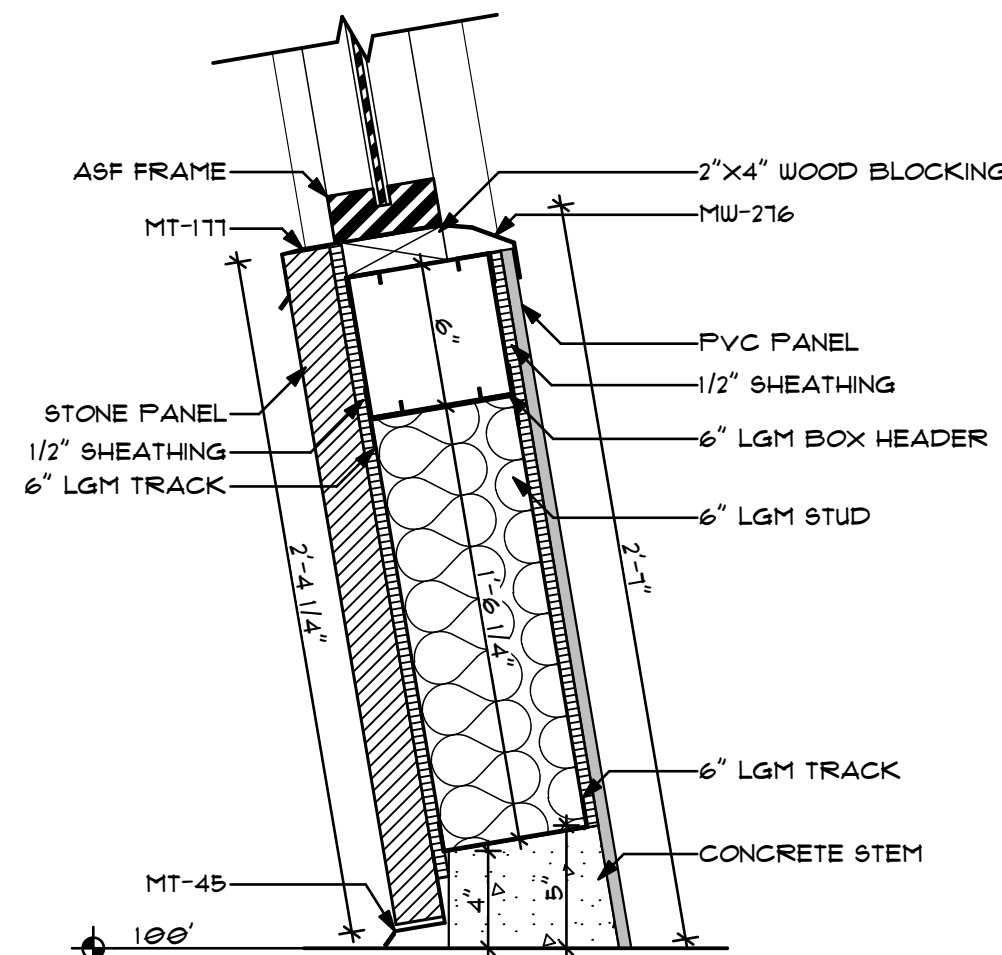




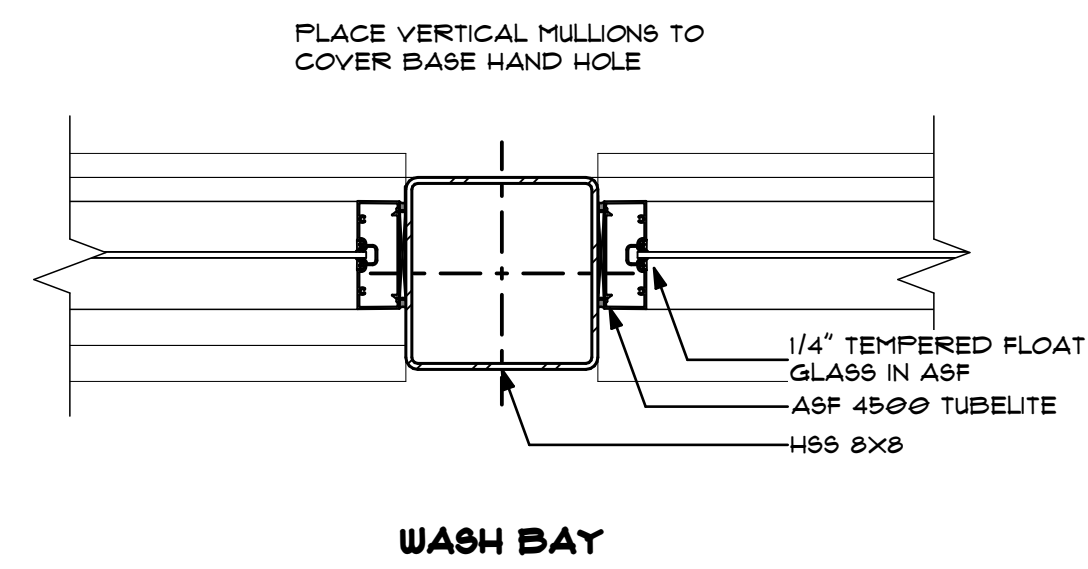
A DETAILS
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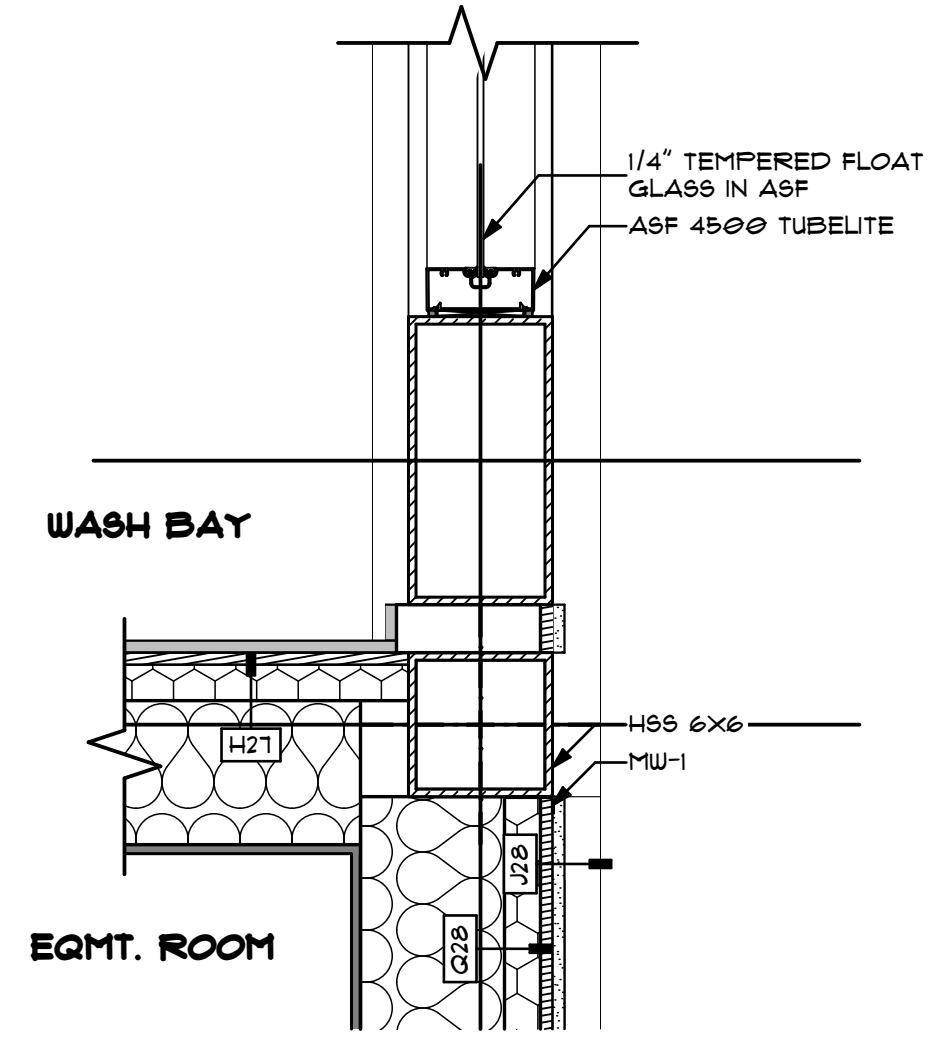
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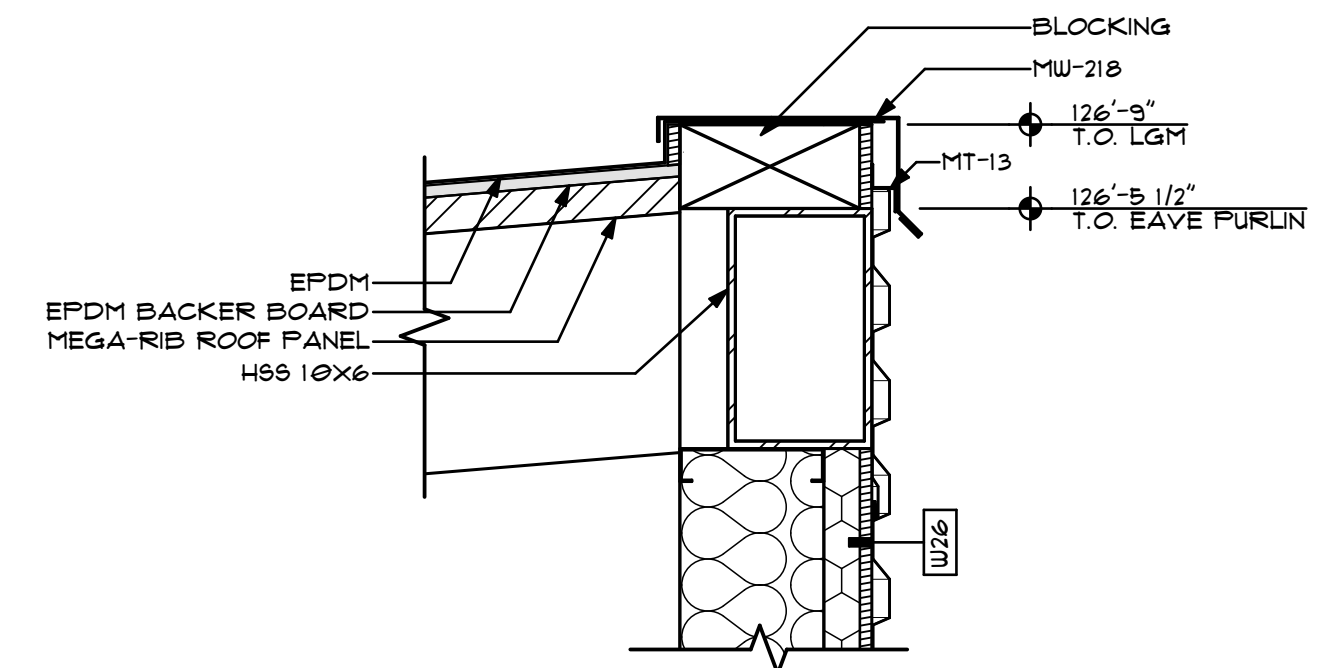
C DETAILS
SCALE: 1 1/2" = 1'-0"



D DETAILS
SCALE: 1 1/2" = 1'-0"



E DETAILS
SCALE: 1 1/2" = 1'-0"



J DETAILS
SCALE: 1 1/2" = 1'-0"

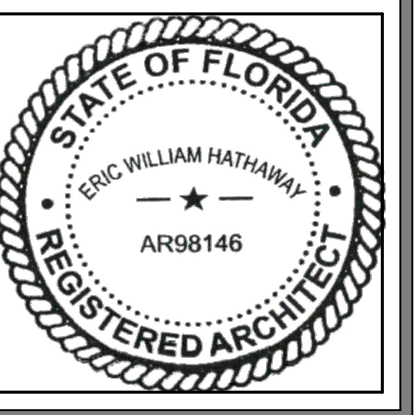
REVISIONS	
NO.	DESCRIPTION
1	FOR PERMIT
2	
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 MODERNWASH INC. 397175 STATE ROAD 401 WYECO, FL 32179

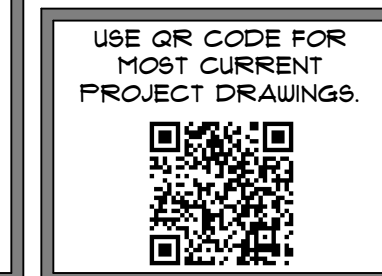


modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

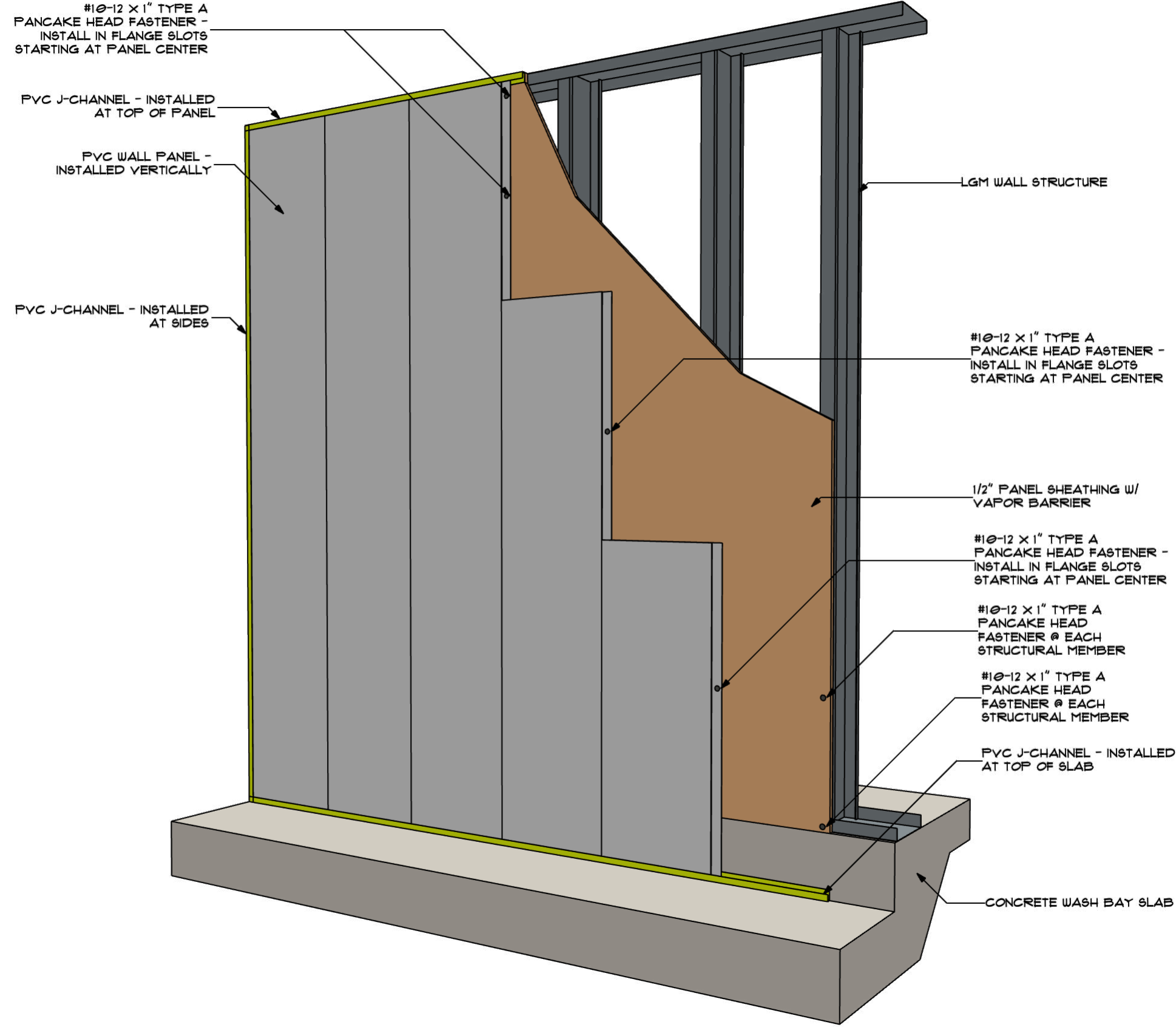
NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 WYECO, FL 32165



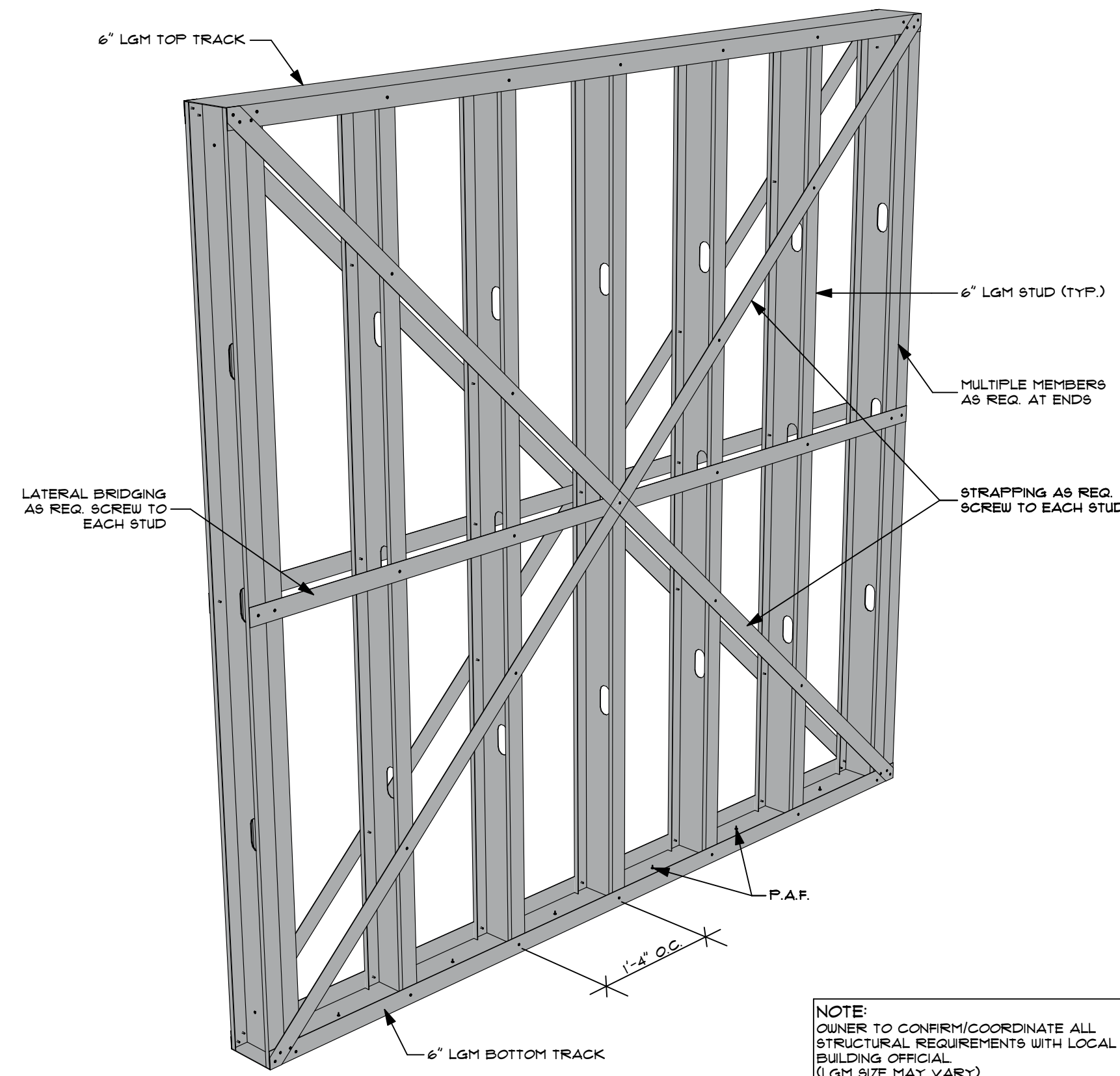
PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-6.3
2D/3D DETAILS



NOTES:
 LEAVE A MINIMUM OF 1/4" CLEARANCE AT ENDS OF PANEL & TRIM TO ACCOUNT FOR THERMAL EXPANSION
 INSTALL WITH A 1/16" GAP BETWEEN VERTICAL BEAMS

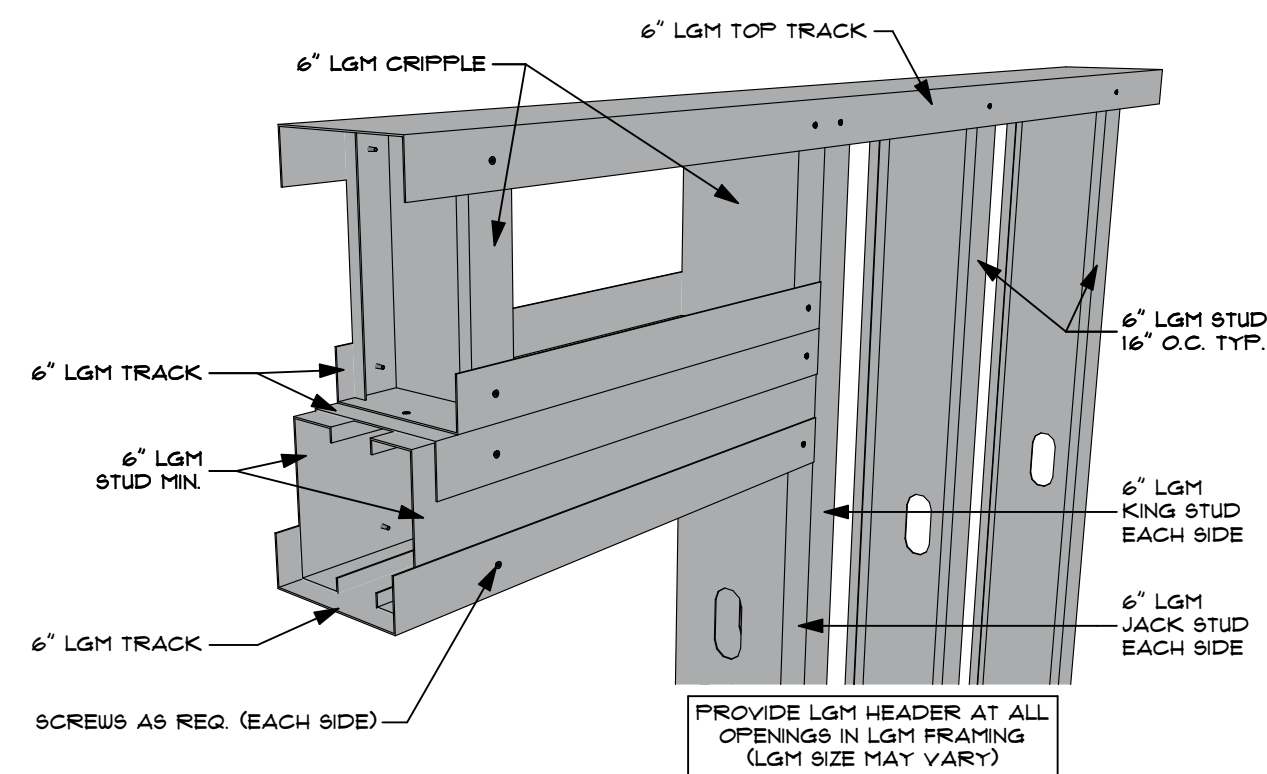


A PVC WALL ASSEMBLY
 NOT TO SCALE



NOTE:
 OWNER TO CONFIRM/COORDINATE ALL STRUCTURAL REQUIREMENTS WITH LOCAL BUILDING OFFICIAL (LGM SIZE MAY VARY)

B LGM FRAMING
 NOT TO SCALE



F LGM HEADER
 NOT TO SCALE

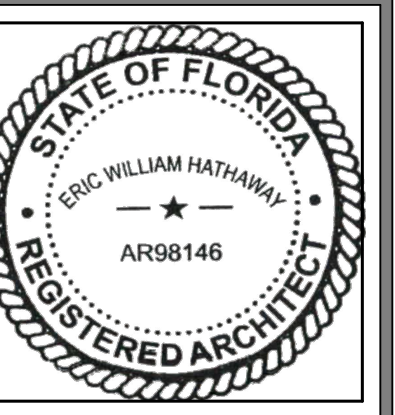
REVISIONS	DATE	DESCRIPTION
1	4/4/22	FOR PERMIT

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 2021/19, STATE WASH - OVIEDO, A.F.N.

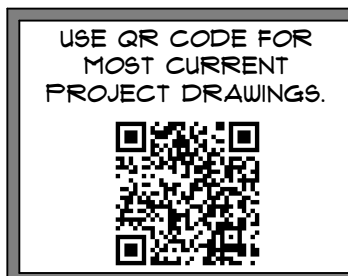


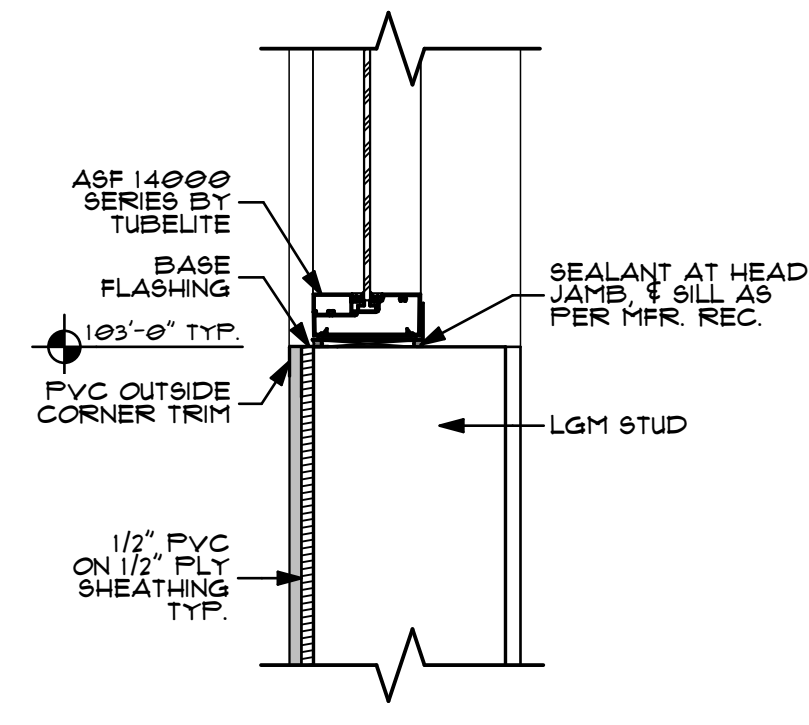
modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OVIEDO, FL 32765

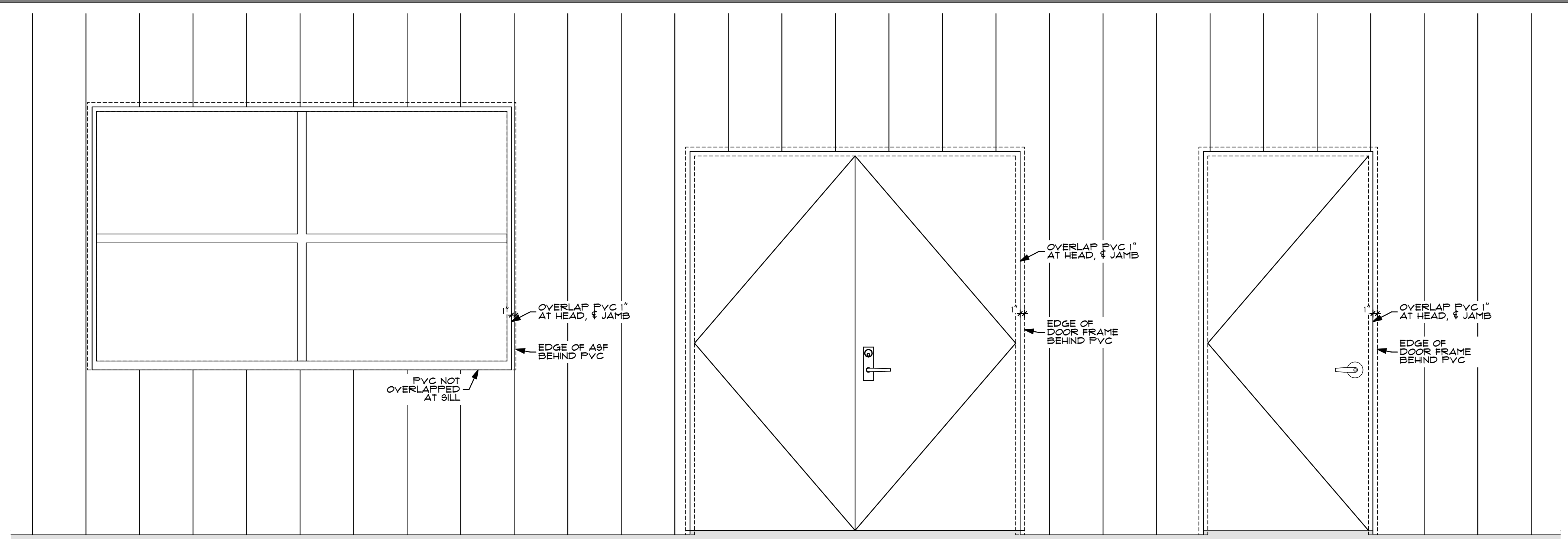


PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-6.4
2D/3D DETAILS





A DETAIL - PVC
SCALE: 1/2" = 1'-0"



B DETAIL - PVC
SCALE: 3/4" = 1'-0"

NO.	DATE	DESCRIPTION
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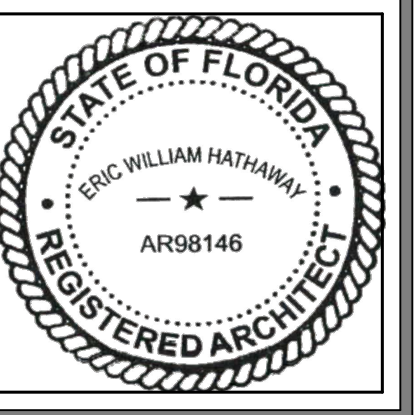
MODERNWASH INC. 2021/19, STATE WASH - OYIEDO, FL, USA



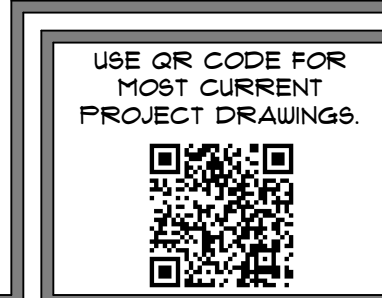
modernwash
5220 Scottsville Road
Bowling Green, KY 42104

Model:
Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
925 LOCKWOOD BLVD
OYIEDO, FL 32165



PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-6.5
DETAILS - PVC



STAR WASH - INTERIOR FINISH SCHEDULE

ROOMS	PLAN DIRECTION	MATERIAL	SUPPLIED BY	COLOR	BASE
▼ WASH BAY 101					
	NORTH	PVC	MW	WHITE	-
	SOUTH	PVC	MW	WHITE	-
	EAST	PVC	MW	WHITE	-
	WEST	PVC	MW	WHITE	-
	CEILING	E.S.A	-	-	-
	FLOOR	CONC SEALED	GC	CWO	-
▼ EQMT ROOM 102					
	NORTH	MLP	MW	WHITE	-
	SOUTH	MLP	MW	WHITE	-
	EAST	MLP	MW	WHITE	-
	WEST	MLP	MW	WHITE	-
	CEILING	E.S.A	-	-	-
	FLOOR	CONC SEALED	GC	CWO	-
▼ RESTROOM 103					
	NORTH	GUWHR	GC	P / CWO	RUBBER 4"
	SOUTH	GUWHR	GC	P / CWO	RUBBER 4"
	EAST	GUWHR	GC	P / CWO	RUBBER 4"
	WEST	GUWHR	GC	P / CWO	RUBBER 4"
	CEILING	GUWHR	GC	P / WHITE	-
	FLOOR	V.C.T.	GC	CWO	-
▼ BREAK 104					
	NORTH	GUW	GC	P / CWO	RUBBER 4"
	SOUTH	GUW	GC	P / CWO	RUBBER 4"
	EAST	GUW	GC	P / CWO	RUBBER 4"
	WEST	GUW	GC	P / CWO	RUBBER 4"
	CEILING	GUW	GC	P / WHITE	-
	FLOOR	V.C.T.	GC	CWO	-
▼ COMMAND 105					
	NORTH	GUW	GC	P / CWO	RUBBER 4"
	SOUTH	GUW	GC	P / CWO	RUBBER 4"
	EAST	GUW	GC	P / CWO	RUBBER 4"
	WEST	GUW	GC	P / CWO	RUBBER 4"
	CEILING	GUW	GC	P / WHITE	-
	FLOOR 104	V.C.T.	GC	CWO	-
▼ OFFICE 106					
	NORTH	GUW	GC	P / CWO	RUBBER 4"
	SOUTH	GUW	GC	P / CWO	RUBBER 4"
	EAST	GUW	GC	P / CWO	RUBBER 4"
	WEST	GUW	GC	P / CWO	RUBBER 4"
	CEILING	GUW	GC	P / WHITE	-
	FLOOR 105	V.C.T.	GC	CWO	-
▼ VENDING 107					
	NORTH	GUWHR	GC	P / CWO	RUBBER 4"
	SOUTH	GUWHR	GC	P / CWO	RUBBER 4"
	EAST	GUWHR	GC	P / CWO	RUBBER 4"
	WEST	GUWHR	GC	P / CWO	RUBBER 4"
	CEILING	GUWHR	GC	P / WHITE	-
	FLOOR	CONC SEALED	GC	CWO	-

MW2021-29

LATCHSETS: 1. PASSAGE 2. ENTRY 3. STOR/JAN 4. OFFICE 5. PRIVACY 6. KEY & BOLT W/ THUMBTURN 7. PANIC 8. DUMMY HANDLE	DOOR/WINDOW MATERIALS: ALUM - ALUMINUM ASF - ALUMINUM STORE FRONT FBG - FIBERGLASS FG - 1/4" FLOAT GLASS HM - HOLLOW METAL IFG - INSUL 1" FLOAT GLASS FC - MULTI-WALL POLYCARBONATE PVC - POLYVINYL CHLORIDE SFG - SAFETY 1/4" FLOAT GLASS SS - STAINLESS STEEL STL - STEEL WD - WOOD	DOOR HARDWARE NOTE: DOORS SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATION DEVICES SHALL BE ACCESSIBLE AND NOT REQUIRE TIGHT GRASPING, TIGHT FINCHING, OR TWISTING OF THE WRIST TO OPERATE. ALL EGRESS AND PEDESTRIAN DOORS SHALL COMPLY WITH ICC - ANSI 111.1 (CURRENT EDITION).	SAFETY GLAZING NOTE: THE FOLLOWING CONDITIONS REQUIRE TEMPERED SAFETY GLAZING: 1. GLAZING IN DOORS 2. GLAZING WITH THE BOTTOM EDGE LESS THAN 18" ABOVE THE FLOOR. 3. GLAZING ADJACENT & WITHIN 24" OF A DOOR & LESS THAN 60" ABOVE STANDING SURFACE.
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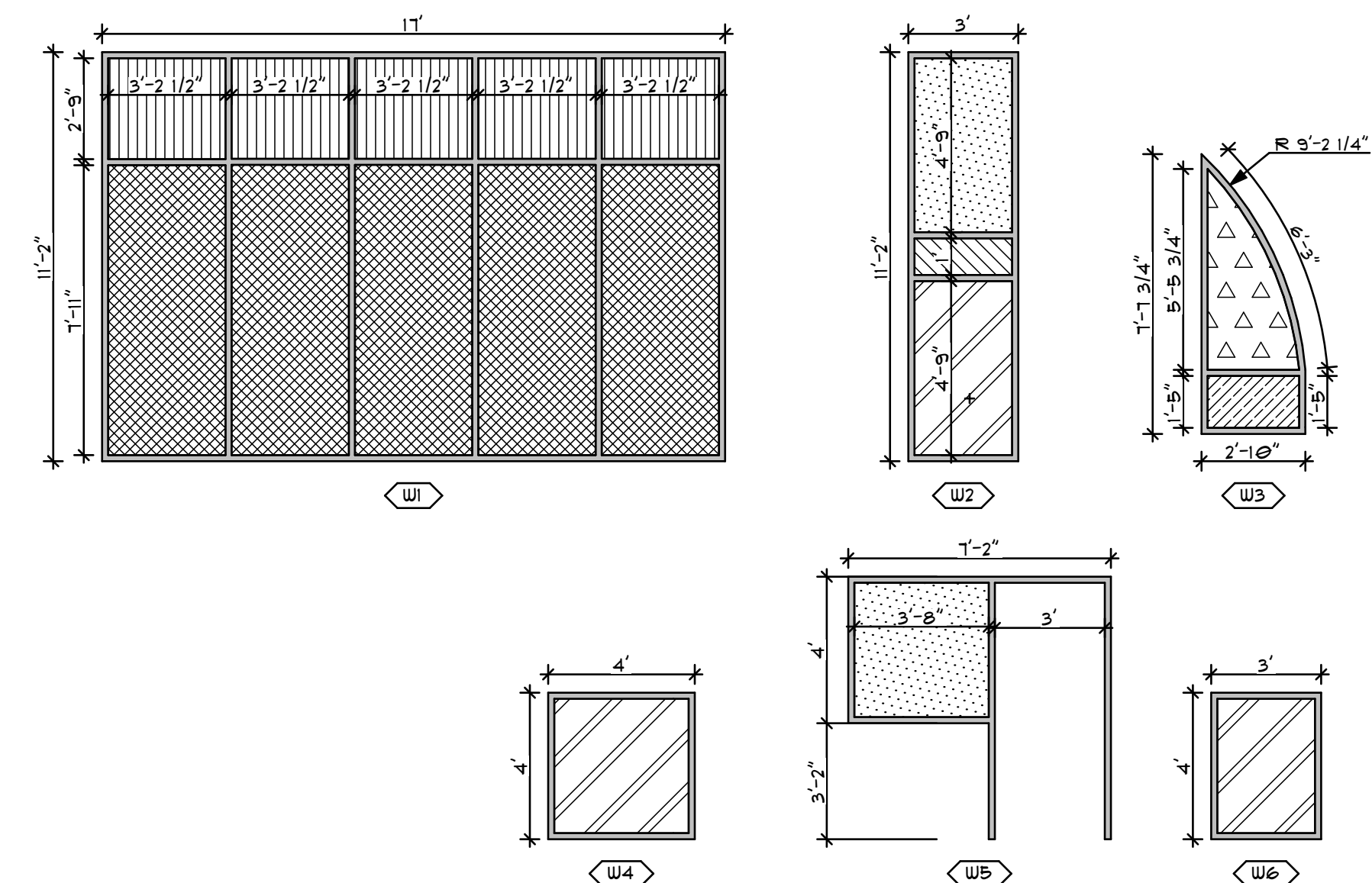
DOOR SCHEDULE												
ID	#	DOOR					FRAME			NOTES		
		PANEL TYPE	W	HT	THK	MATL	GLZ	HW SET	WDTH		THK	MATL
A1	1	FULL GLASS	3'	7'	1 3/4"	ALUM	TEMP	2	2"	4 1/2"	ALUM	SUPPLIED BY OTHERS
A2	1	FULL GLASS	3'	7'	1 3/4"	ALUM	TEMP	2	2"	4 1/2"	ALUM	SUPPLIED BY OTHERS
B1	1	FLUSH	3'	7'	1 3/4"	HM	-	2	2"	4 1/2"	HM	SUPPLIED BY OTHERS
B2	1	FLUSH	3'	7'	1 3/4"	HM	-	1	2"	4 1/2"	HM	SUPPLIED BY OTHERS
B3	1	FLUSH	3'	7'	1 3/4"	SS	-	8	2"	4 1/2"	SS	SUPPLIED BY MODERNWASH
B4	1	FLUSH	3'	7'	1 3/4"	SS	-	8	2"	4 1/2"	SS	SUPPLIED BY MODERNWASH
C1	1	FLUSH	3'	7'	1 3/4"	WD	-	5	2"	4 1/2"	WD	SUPPLIED BY OTHERS
C2	1	FLUSH	3'	7'	1 3/4"	WD	-	4	2"	4 1/2"	WD	SUPPLIED BY OTHERS
D1	1	DOUBLE FLUSH	6'	7'	1 3/4"	SS	-	2	2"	4 1/2"	SS	SUPPLIED BY MODERNWASH
D2	1	GATE	10'-8"	7'	1 1/2"	STL	-	---	2"	4"	STL	SUPPLIED BY OTHERS
E1	1	ROLL-UP	8'	7'	1 1/2"	STL	-	---	2"	4"	STL	SUPPLIED BY OTHERS
F1	1	OVERHEAD	12'	10'-8"	1 3/4"	ALUM	POLY	---	3"	4"	ALUM	SUPPLIED BY OTHERS
F2	1	OVERHEAD	12'	10'-8"	1 3/4"	ALUM	POLY	---	3"	4"	ALUM	SUPPLIED BY OTHERS

DOOR						
TYPE	DOUBLE FLUSH	FLUSH	FULL GLASS	GATE	OVERHEAD	ROLL-UP
VIEW						
DIMS	6'x7'	3'x7'	3'x7'	---	12'x10'-8"	---

WINDOW SCHEDULE					
ID	#	LENGTH	HEIGHT	HOME STORY	NOTES
W1	5	204.00"	134.04"	1ST FLOOR	---
W2	6	36.00"	134.00"	1ST FLOOR	---
W3	4	34.50"	51.61"	1ST FLOOR	---
W4	4	48.00"	48.00"	1ST FLOOR	---
W5	1	48.00"	48.00"	1ST FLOOR	---
W6	1	36.00"	48.00"	1ST FLOOR	---

ACM PNL W/ PVC BACKER		10MM LEXAN THERMOCLEAR GLAZING PNL	
INSULATED SAFETY GLASS		INSULATED GLASS	
1/4" SAFETY GLASS		1/4" TEMPERED GLASS	
THERMOCLICK POLY WINDOW SYSTEM		SPANDREL PANEL	

NOTE:
STOREFRONT SUPPLIER TO CONFIRM ALL OPENINGS ON SITE.
SHOP DRAWINGS SHOULD BE SUBMITTED TO MODERNWASH FOR APPROVAL.
ACM PANEL WITH PVC BACKER IS SUPPLIED BY MODERNWASH - CUT TO FIT ON SITE.
LEXAN THERMOCLEAR PANEL TO BE SUPPLIED BY MODERNWASH - CUT TO FIT ON SITE.
THERMOCLICK PANEL TO BE SUPPLIED BY MODERNWASH - CUT TO FIT ON SITE.



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

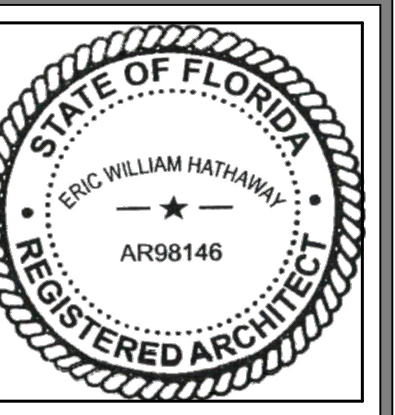
REVISIONS	
DATE	DESCRIPTION
4/4/22	FOR PERMIT

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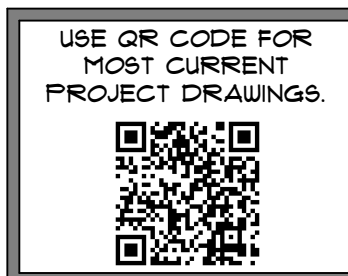


modernwash
5220 Scottsville Road
Bowling Green, KY 42104
Model:
Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
925 LOCKWOOD BLVD
OYIEDO, FL 32165



PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-7.1 SCHEDULES



Product category: S137 (1-3/8" Flange Structural Stud)
Product name: 6005137-43 (33ksi, CP60) P - Punched
43mils (18ga) Coating: CP60 per ASTM C955
Color coding: Yellow

Geometric Properties
Web depth 3.625 in
Flange width 1.375 in
Stiffening lip 0.375 in
Design thickness 0.0451 in
Yield strength, Fy 33 ksi
Ultimate, Fu 45.0 ksi

Gross Section Properties of Full Section, Strong Axis
Cross sectional area (A) 0.306 in²
Member weight per foot of length 1.04 lbf/ft
Moment of inertia (Ix) 0.616 in⁴
Section modulus (Sx) 0.340 in³
Radius of gyration (R_x) 1.415 in
Gross moment of inertia (I_y) 0.075 in⁴
Gross radius of gyration (R_y) 0.459 in

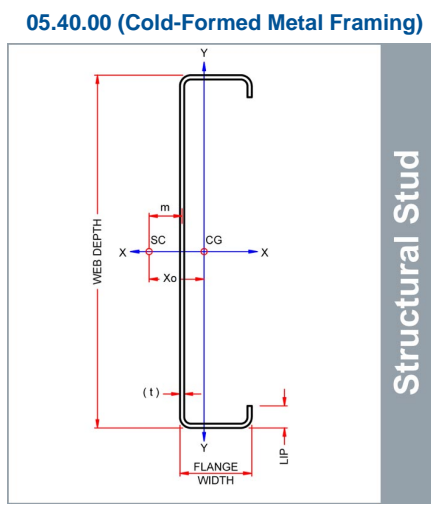
Effective Section Properties, Strong Axis
Effective Area (A_e) 0.214 in²
Moment of inertia for deflection (I_x) 0.616 in⁴
Section modulus (S_x) 0.320 in³
Allowable bending moment (M_a) 6.33 in-k
Allowable moment based on distortion buckling (M_{ad}) 6.66 in-k
Allowable shear force in web (solid section) 1739 lb
Allowable shear force in web (perforated section) 676 lb
Unbraced length (L_u) 34.6 in

Torsional Properties
St. Venant torsion constant (J x 1000) 0.207 in⁴
Warping constant (C_w) 0.206 in⁶
Distance from shear center to neutral axis (X₀) -0.901 in
Distance between shear center and web centerline (m) 0.608 in
Radii of gyration (R_o) 1.801 in
Torsional flexural constant (Beta) 0.697

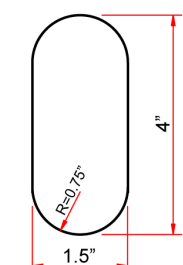
ASTM & Code Standards:
• AISI North American Specification [NASPEC] S100-07 with 2010 supplement
• Effective properties incorporate the strength increase from the cold work of forming
• Gross properties are based on the cross section away from the punchouts
• Structural framing is produced to meet or exceed ASTM C955
• Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
• ClarkDietrich's structural and nonstructural framing comply with the SFA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCR-0206
• For installation & storage information refer to ASTM C1007
• SDS & Product Certification Information is available at www.clarkdietrich.com

Sustainability Credits:
For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED
LEED v4 MR Credit - Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points)
LEED 2009 Credit MR 2 & MR 4 - ClarkDietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at info@clarkdietrich.com / 888-437-3244

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Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:



- Used in framing applications:**
- Load-bearing walls
 - Curtain walls
 - Tall interior walls
 - Floor & ceiling joists
 - Trusses



East market punchout spacing:
12" from lead end then 24" o.c.
West market punchout spacing:
24" from lead end then 24" o.c.

Product category: S137 (1-3/8" Flange Structural Stud)
Product name: 6005137-43 (33ksi, CP60) P - Punched
43mils (18ga) Coating: CP60 per ASTM C955
Color coding: Yellow

Geometric Properties
Web depth 6.000 in
Flange width 1.375 in
Stiffening lip 0.375 in
Design thickness 0.0451 in
Yield strength, Fy 33 ksi
Ultimate, Fu 45.0 ksi

Gross Section Properties of Full Section, Strong Axis
Cross sectional area (A) 0.413 in²
Member weight per foot of length 1.41 lbf/ft
Moment of inertia (Ix) 2.042 in⁴
Section modulus (Sx) 0.681 in³
Radius of gyration (R_x) 2.224 in
Gross moment of inertia (I_y) 0.087 in⁴
Gross radius of gyration (R_y) 0.459 in

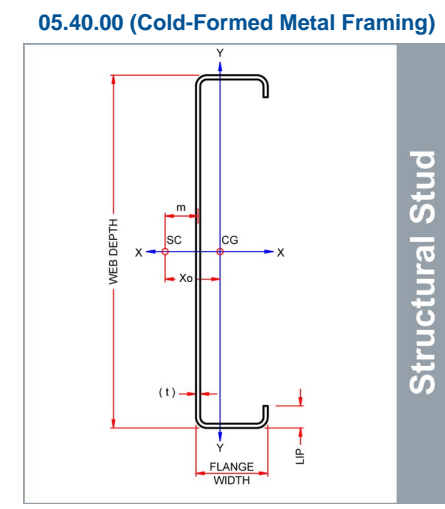
Effective Section Properties, Strong Axis
Effective Area (A_e) 0.222 in²
Moment of inertia for deflection (I_x) 2.041 in⁴
Section modulus (S_x) 0.645 in³
Allowable bending moment (M_a) 12.74 in-k
Allowable moment based on distortion buckling (M_{ad}) 11.83 in-k
Allowable shear force in web (solid section) 1416 lb
Allowable shear force in web (perforated section) 1240 lb
Unbraced length (L_u) 33.3 in

Torsional Properties
St. Venant torsion constant (J x 1000) 0.280 in⁴
Warping constant (C_w) 0.633 in⁶
Distance from shear center to neutral axis (X₀) -0.796 in
Distance between shear center and web centerline (m) 0.513 in
Radii of gyration (R_o) 2.406 in
Torsional flexural constant (Beta) 0.690

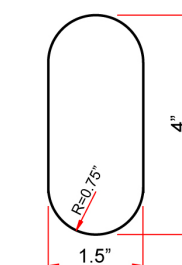
ASTM & Code Standards:
• AISI North American Specification [NASPEC] S100-07 with 2010 supplement
• Effective properties incorporate the strength increase from the cold work of forming
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• Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
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• For installation & storage information refer to ASTM C1007
• SDS & Product Certification Information is available at www.clarkdietrich.com

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Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:



- Used in framing applications:**
- Load-bearing walls
 - Curtain walls
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 - Trusses



East market punchout spacing:
12" from lead end then 24" o.c.
West market punchout spacing:
24" from lead end then 24" o.c.

Product category: S137 (1-3/8" Flange Structural Stud)
Product name: 6005137-43 (33ksi, CP60) P - Punched
43mils (18ga) Coating: CP60 per ASTM C955
Color coding: Yellow

Geometric Properties
Web depth 8.000 in
Flange width 1.375 in
Stiffening lip 0.375 in
Design thickness 0.0451 in
Yield strength, Fy 33 ksi
Ultimate, Fu 45.0 ksi

Gross Section Properties of Full Section, Strong Axis
Cross sectional area (A) 0.503 in²
Member weight per foot of length 1.71 lbf/ft
Moment of inertia (Ix) 4.135 in⁴
Section modulus (Sx) 1.034 in³
Radius of gyration (R_x) 2.866 in
Gross moment of inertia (I_y) 0.093 in⁴
Gross radius of gyration (R_y) 0.430 in

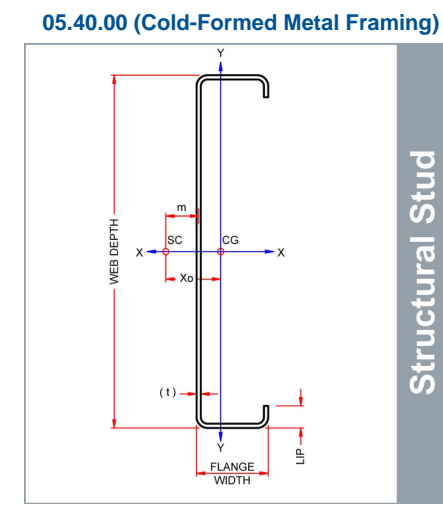
Effective Section Properties, Strong Axis
Effective Area (A_e) 0.224 in²
Moment of inertia for deflection (I_x) 4.001 in⁴
Section modulus (S_x) 0.896 in³
Allowable bending moment (M_a) 17.70 in-k
Allowable moment based on distortion buckling (M_{ad}) 15.78 in-k
Allowable shear force in web (solid section) 1051 lb
Allowable shear force in web (perforated section) 1051 lb
Unbraced length (L_u) 32.2 in

Torsional Properties
St. Venant torsion constant (J x 1000) 0.341 in⁴
Warping constant (C_w) 1.214 in⁶
Distance from shear center to neutral axis (X₀) -0.987 in
Distance between shear center and web centerline (m) 0.454 in
Radii of gyration (R_o) 2.979 in
Torsional flexural constant (Beta) 0.947

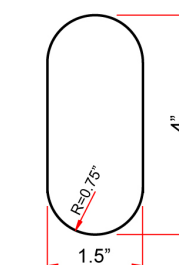
ASTM & Code Standards:
• AISI North American Specification [NASPEC] S100-07 with 2010 supplement
• Effective properties incorporate the strength increase from the cold work of forming
• Gross properties are based on the cross section away from the punchouts
• Structural framing is produced to meet or exceed ASTM C955
• Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
• ClarkDietrich's structural and nonstructural framing comply with the SFA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCR-0206
• For installation & storage information refer to ASTM C1007
• SDS & Product Certification Information is available at www.clarkdietrich.com

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Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:



- Used in framing applications:**
- Load-bearing walls
 - Curtain walls
 - Tall interior walls
 - Floor & ceiling joists
 - Trusses



East market punchout spacing:
12" from lead end then 24" o.c.
West market punchout spacing:
24" from lead end then 24" o.c.

Product category: S162 (1-5/8" Flange Structural Stud)
Product name: 12005162-97 (50ksi, CP60) P - Punched
97mils (12ga) Coating: CP60 per ASTM C955
Color coding: Red

Geometric Properties
Web depth 12.000 in
Flange width 1.625 in
Stiffening lip 0.500 in
Design thickness 0.1017 in
Yield strength, Fy 50 ksi
Ultimate, Fu 65.0 ksi

Gross Section Properties of Full Section, Strong Axis
Cross sectional area (A) 1.576 in²
Member weight per foot of length 5.36 lbf/ft
Moment of inertia (Ix) 26.977 in⁴
Section modulus (Sx) 4.496 in³
Radius of gyration (R_x) 4.138 in
Gross moment of inertia (I_y) 0.332 in⁴
Gross radius of gyration (R_y) 0.459 in

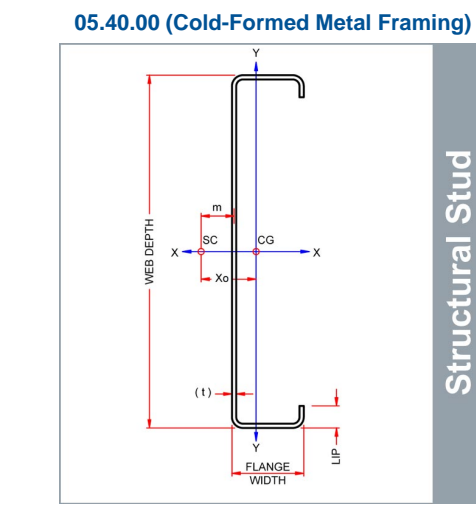
Effective Section Properties, Strong Axis
Effective Area (A_e) 0.699 in²
Moment of inertia for deflection (I_x) 26.738 in⁴
Section modulus (S_x) 4.091 in³
Allowable bending moment (M_a) 122.50 in-k
Allowable moment based on distortion buckling (M_{ad}) 111.38 in-k
Allowable shear force in web (solid section) 6147 lb
Allowable shear force in web (perforated section) 7411 lb
Unbraced length (L_u) 29.5 in

Torsional Properties
St. Venant torsion constant (J x 1000) 5.433 in⁴
Warping constant (C_w) 10.331 in⁶
Distance from shear center to neutral axis (X₀) -0.691 in
Distance between shear center and web centerline (m) 0.470 in
Radii of gyration (R_o) 4.220 in
Torsional flexural constant (Beta) 0.973

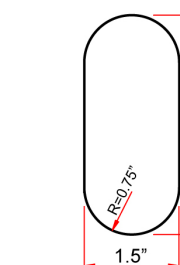
ASTM & Code Standards:
• AISI North American Specification [NASPEC] S100-12
• Effective properties incorporate the strength increase from the cold work of forming
• Gross properties are based on the cross section away from the punchouts
• Structural framing is produced to meet or exceed ASTM C955
• Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
• ClarkDietrich's structural and nonstructural framing comply with the SFA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCR-0206
• For installation & storage information refer to ASTM C1007
• SDS & Product Certification Information is available at www.clarkdietrich.com

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Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:



- Used in framing applications:**
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East market punchout spacing:
12" from lead end then 24" o.c.
West market punchout spacing:
24" from lead end then 24" o.c.

REVISIONS	DATE	DESCRIPTION
1	4/4/22	FOR PERMIT

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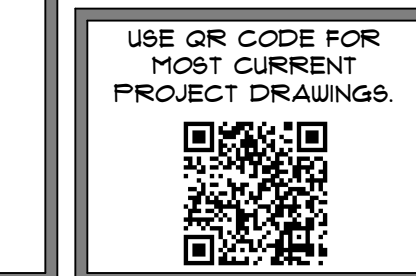
modernwash
5220 Scottsville Road
Bowling Green, KY 42104
Model:
Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
925 LOCKWOOD BLVD
OVIDO, FL 32165

STATE OF FLORIDA
ERIC WILLIAM HATHAWAY
REGISTERED ARCHITECT
AR98146

PRELIMINARY
DATE OF CREATION:
10/18/2021
PLOT DATE:
4/4/22
DRAWN BY:
EWH, MJR
CHECKED BY:
EWH
SHEET:
MW-7.2
MATERIAL SPECS

NOT ALL MATERIAL SPECS SHOWN WILL APPLY TO EVERY PROJECT. REFER TO THE OTHER MW DOCUMENTS FOR CLARIFICATION.



INSTALL GUIDE:
ACM/FIBER CEMENT PANELS 1



INSTALL GUIDE:
ACM/FIBER CEMENT PANELS 2



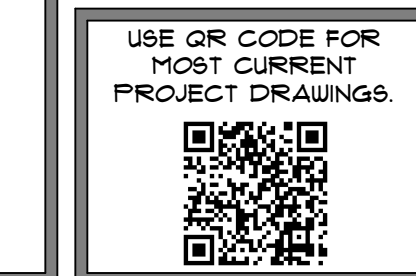
INSTALL GUIDE:
PVC PANELS



INSTALL GUIDE:
FASTPLANK PANELS



INSTALL GUIDE:
VERSETTA STONE PANELS



McELROY METAL, INC
www.mcelroymetal.com

Mega-Rib Panel

Product Data

Applications
Exposed fastener wall/roof panel used on slopes down to 1:12. Tape sealant is required on seam (side-laps). Standard panel lengths up to 40'. Please inquire for longer lengths.

Substrates
Plywood or Purlins.

Material
Standard - 24 GA. Steel ASTM A792 (50 ksi) AZ55 - Bare AZ50 - Painted
Optional - 22 GA. Steel ASTM A792 (50 ksi) AZ55 - Bare AZ50 - Painted
- 18 GA. and 30 GA. Steel ASTM A792 (50 ksi) AZ50 - painted coil only

Manufacturing
Roll formed in factory.

Finishes
Acrylic Coated Galvalume®
Fluoropolymer (Kynar 500® PVDF resin-based)
Siliconized Polyester and Polyester

Pan Conditions
Oil canning is inherent in all metal panels and is not cause for panel rejection. A signed pan wave acknowledgement will be required for all orders prior to production.

Testing
Uplift: UL 580 Class 90, ASTM E1592
Impact Resistance: UL 2218 Class 4
ICCES Evaluation on 24 GA.
Fire Resistance: UL 263 & UL 790 Class A
Florida Product Approval: FL 1832.8 (non-structural)
FL 1747.6 (structural)
Miami Dade Approval: NOA# 13-0617.21

NOTE
All data represented on this sheet may not be applicable to all widths and gauges. Please contact McElroy Metal for more information.

FOAM INSIDE CLOSURE

FOAM OUTSIDE CLOSURE

FASTENER PATTERN (@ Eaves, Ridges & Endlaps)

FASTENER PATTERN (@ Intermediate Purlins)

MEGA-RIB PAGE 1 of 1
p. 21

McELROY METAL, INC
www.mcelroymetal.com

Matrix Soffit Panel

Product Data

Applications
Concealed fastener soffit/wall panel. Standard panel lengths from 0' - 6' to 25'.

Substrates
Plywood, Hat Section, Mac-Girts, or Wall Girts.

Material
Standard - 24 GA. ASTM A792 (50 ksi steel) AZ55 - Bare AZ50 - Painted
- 29 GA. ASTM A792 (80 ksi steel) AZ55 - Bare AZ50 - Painted

Manufacturing
Roll formed in factory. (Marshall Plant Only)

Finishes
Acrylic Coated Galvalume®
Fluoropolymer (Kynar 500® PVDF resin-based)

Pan Conditions
Vented or Non-Vented
Ventilation = 10% Net Free Air
Oil canning is inherent in all metal panels and is not cause for panel rejection. A signed pan wave acknowledgement will be required for all orders prior to production.

Testing
Uplift: ASTM E1592
Testing and Approvals are product specific. Please inquire for details.

MATRIX PROFILE

MATRIX SEAM

VENTED PANEL (10% Net Free Air)

NON-VENTED PANEL

MATRIX PAGE 1 of 1
p. 31

GENERAL PURPOSE MULTIWALL SHEET

SABIC has one of the broadest portfolios of general purpose multiwall sheets available in two and three wall structures. These products are available in various gauges, weights and in a wide color range.

POTENTIAL APPLICATIONS:

- Commercial, residential, and stadium roof glazing
- Carports
- Greenhouses
- Swimming pool covers
- Industrial roofing, skylights
- Signage

KEY BENEFITS:

- Lightweight and high stiffness
- High impact strength
- Long-term light transmission
- Ease of installation
- Excellent thermal insulation and flame resistance
- Optional two side UV protection, avoiding installation errors, and improving cutting yields
- Broad portfolio of structures, coatings and colors
- Custom widths and cut/yield service availability

TERMOCLEAR Softlite offers up to 75% light transmission with 100% light diffusion.

PRODUCT OVERVIEW (SELECTED GRADES)

Structure Name	Structure	Gauge (in/mm)	Weights (lb/ft² / kg/m²)	U-Value BTU/ft²·°F / W/m²·°C
LEXAN™ THERMOCLEAR™ 15 Sheet - General Purpose				
2-wall R-structure		0.177 / 4.5	0.205 / 1.0	0.679 / 3.86
		0.236 / 6.0	0.266 / 1.3	0.627 / 3.56
		0.315 / 8.0	0.348 / 1.7	0.574 / 3.26
3-wall T-structure		0.394 / 10.0	0.409 / 2.0	0.532 / 3.02
		0.315 / 8.0	0.310 / 1.5	0.514 / 2.92
		0.394 / 10.0	0.348 / 1.7	0.472 / 2.68
		0.830 / 16.0	0.573 / 2.8	0.399 / 2.27

Surface Treatment: LEXAN THERMOCLEAR sheets are standard supplied on both sides with a UV protective layer with a 10 or 15 year limited warranty. Upon request special surface treatments can be offered. "Easy Clean" grade can offer improved self-cleaning. "Dripless" grade may avoid formation of condensation droplets and "UL904" for 15 years UV resistance and improved delta of yellowness and loss of light transmission. Note: not all surface treatments are available for each structure.

Colors: LEXAN THERMOCLEAR sheets are available in a wide range of colors including special Solar Control versions.

SABIC 5

mfm Technical Information

PEEL & SEAL

MFM Building Products Corp. manufactures a wide range of innovative waterproofing products for the building industry. With more than 50 years of field experience, MFM products are engineered for superior performance and ease of installation.

DESCRIPTION
Peel & Seal™ is a patented laminate of reflective aluminum foil, rugged, cross-linked polymer films, and a thick layer of rubberized asphalt. The asphalt compound adheres to most surfaces and seals around most punctures, forming a protective waterproof barrier. A high-quality release liner is applied to protect the adhesive surface until installation.

USES
Peel & Seal™ may be used anywhere a fast, dependable waterproofing barrier is needed and is ideal for roofing, patching, gutter repair, flashing, and general waterproofing where the membrane will be exposed. Designed for low-slope roof applications, it is ideal for mobile homes, trailers, RVs, and sun rooms. No glues, torches, tapes or fasteners are required - only a utility knife and a large push or hand roller are needed for installation.

FEATURES

- For roofing, waterproofing, patching and repair
- Adheres directly to roof deck or substrate
- Aluminum surface reflects heat lowering utility costs
- Easy to install, low cost and labor saving
- Lightweight and easy to handle
- Tough and durable - puncture and abrasion resistant
- Stretches to allow for building movement and conforms to odd shapes
- Requires no coating or covering for exposure to sunlight

INSTALLATION
This is a summary of how the product is installed. FOLLOW APPLICATION INSTRUCTIONS ON THE CARTON.

General Installation: The surface to receive Peel & Seal™ must be clean, smooth, dry and free from oil, grease, solvents or debris - these interfere with proper adhesion. Apply in fair weather at temperatures above 55°F. Minimum slope of 1/2" per foot is required. Not intended for areas with ponding water.

Peel & Seal™ is easily installed by removing the release liner and pressing into place. Cut to fit with a utility knife. Peel & Seal™ is pressure sensitive. Apply maximum pressure uniformly over entire membrane using a large push or hand roller. Peel & Seal™ adheres to the deck and to itself when overlapped. Seams and overlaps must be firmly rolled with a hand roller.

When overlapping, 3" side laps and 6" end laps are required. Masonry, concrete, OSB, weathered wood, and rusted metal should be primed first with an asphalt-based primer. To improve adhesion, use MFM Spray Adhesive™ as needed. When installing over EPDM, the surface must be primed with "WeatherBond™ Multi-Purpose Primer."

When installing over silicone caulks, sealants or petroleum-based materials, allow any solvents to fully cure. Masonry should also be fully cured. Installer is responsible for compatibility with caulks and sealants.

PRODUCT DATA

Property	Test Method	Result
Material Thickness	ASTM D 5147	45 Mil. Nom.
Flexibility @ -20°F	ASTM D 1970	Pass
Vapor Permeance	ASTM E 96	< 0.1
Nail Sealability	ASTM D 1970	Pass
Tensile MD	ASTM D 2523	32 lbs/in
Tensile CMD	ASTM D 2523	33 lbs/in
Elongation MD	ASTM D 2523	788%
Elongation CMD	ASTM D 2523	779%
Adhesion to Plywood @ 75°F	ASTM D 903/1970	51 lb/ft
Adhesion to Plywood @ 40°F	ASTM D 903/1970	14 lb/ft

PRODUCT NUMBERS

Aluminum	White	Gray	Almond
36" - 50036	36" - 50W36	36" - 50G36	36" - 50A36
18" - 50018	18" - 50W18	18" - 50G18	18" - 50A18
12" - 50012	12" - 50W12	12" - 50G12	12" - 50A12
9" - 50009	9" - 50W09	9" - 50G09	9" - 50A09
6" - 50006	6" - 50W06	6" - 50G06	6" - 50A06
4" - 50004	4" - 50W04	4" - 50G04	4" - 50A04
3" - 50003	3" - 50W03	3" - 50G03	3" - 50A03

APPROVALS
Peel & Seal™ is tested to ASTM D 1970 and meets the requirements of ICC-ES AC-75, Florida Building Code FL# 11842.2, FL# 13025.1, FL# 13025.2, has a UL Class "A" Fire Rating, and is Miami-Dade County Approved, Texas Dept. of Insurance RC-38.

10-YEAR LIMITED WARRANTY
MFM Building Products Corp. (MFM) warrants materials to be free from leaks caused by defects in material or manufacturing for a period of ten (10) years from the date of purchase when applied according to published directions.

For the most current Installation Instructions, Warranties, Technical Specifications and Approvals, visit www.mfmbp.com.

Peel & Seal™ is protected by U.S. Patent Nos. 4,936,938; 5,066,759 and 5,142,837. *WeatherBond is a trademark of WeatherBond.

525 Orange Street, PO Box 340, Coahcocton, Ohio 43812 • Tel 800-882-7665 • Fax 740-622-6161 • www.mfmbp.com
TDS-P83 0407 Revised 08/13

DELPRO 1238™ / 1638™

INTERLOCKING PVC PANEL

• AGRICULTURAL • INDUSTRIAL • COMMERCIAL • RESIDENTIAL •

PRODUCT OF NORTH AMERICA

• ABOUT DELPRO 1238™ AND DELPRO 1638™ •

- Distinctive Tongue and Groove System
- Quick and Easy Installation
- Low Maintenance
- Easy to Clean
- Economical
- No Painting Required
- Bright White, Extremely Smooth Panels
- Made with 100% Exterior Grade Virgin PVC Formula tried and tested for two decades
- CFIA Approved
- Hidden Fastener
- CAN ULC S102.2 Fire Rating Approved
- 12" and 16" Wide Panels
- 15 Years Warranty

• SPECIFICATIONS •

DelPro 1638™ Smooth Panel 16"

0.04" (wall thickness) 3/8" (panel thickness)

DelPro 1238™ Smooth Panel 12"

DelPro 1238™ V-Groove Panel 12"

with a wall thickness of 0.04" and an overall panel thickness of 3/8" it's the most durable PVC panel on the market.

• ENJOY THE STRENGTH • • DISCOVER THE BEAUTY •

Our panels provide an efficient and a stylish finish for walls and ceilings. DelPro 1238™ and DelPro 1638™ can be used in new and retrofit applications. The high quality interlocking PVC wall and ceiling panels are easy to install and virtually maintenance free.

The water resistant quality makes DelPro 1238™ and DelPro 1638™ a durable cladding for walls and ceilings, particularly in damp areas. With a strong resistance to color change and fading, DelPro 1238™ and DelPro 1638™ will neither delaminate, rot, nor absorb water.

• DELPRO 1238™ AND DELPRO 1638™ TRIM •

BASE TRIM H-TRIM CLIPSABLE H-TRIM INSIDE COVE TRIM

CLIPSABLE INSIDE COVE TRIM J-TRIM L-TRIM OUTSIDE CORNER TRIM MULTI-FUNCTION TRIM

• WHY A PANEL THICKNESS OF 3/8" IS BETTER THAN 1/2" •

In the PVC paneling industry, unlike lumber, thicker is not always better. The interior walls and the space between the front and back wall of the panel, are the weaker parts of the overall design. If you increase this space (the thicker the panel, the more you stretch the interior wall), you have now effectively decreased the overall impact strength of your panel. Therefore, a 3/8" panel is much stronger and longer lasting than a 1/2" panel.

• WHY DELPRO 1238™ AND DELPRO 1638™ AREN'T WIDER THAN 16" •

If you have weight or tension on the panel (insulation or an angled fastener) it creates pressure between both ends and eventually the panel starts to bow or sag. In the PVC paneling industry, it is proven that 16" is the best and maximum width to use. DelPro 1238™ and DelPro 1638™ are easily able to withstand these pressures and will not bow or sag.

DELCAN PRODUCTS LTD. Phone: 1-877-553-3632 Fax: 1-877-264-9025

sales@delcan.ca www.delcanproducts.com

Find out more at www.delpro1238.com

INSTALL GUIDE: ACM/FIBER CEMENT PANELS 1

INSTALL GUIDE: ACM/FIBER CEMENT PANELS 2

INSTALL GUIDE: PVC PANELS

INSTALL GUIDE: FASTPLANK PANELS

INSTALL GUIDE: VERSETTA STONE PANELS

INSTALL GUIDE: VERSETTA STONE PANELS

NOT ALL MATERIAL SPECS SHOWN WILL APPLY TO EVERY PROJECT. REFER TO THE OTHER MFM DOCUMENTS FOR CLARIFICATION.

USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.

PRELIMINARY

DATE OF CREATION: 10/18/2021

PLOT DATE: 4/4/22

DRAWN BY: EWH, MJR

CHECKED BY: EWH

SHEET: MW-7.3 MATERIAL SPECS

REVISIONS

NO.	DATE	DESCRIPTION
1	4/4/22	FOR PERMIT

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2021/12/15 AM, U.S.A. - LOVEDO, A.F.M.

modernwash
5220 Scottsville Road
Bowling Green, KY 42104

Model:
Apex Tower

NEW CAR WASH BUILDING FOR:

STARWASH EXPRESS

925 LOCKWOOD BLVD
OYIEDO, FL 32165

STATE OF FLORIDA
ERIC WILLIAM HATHAWAY
REGISTERED ARCHITECT
AR98146

PRELIMINARY

DATE OF CREATION: 10/18/2021

PLOT DATE: 4/4/22

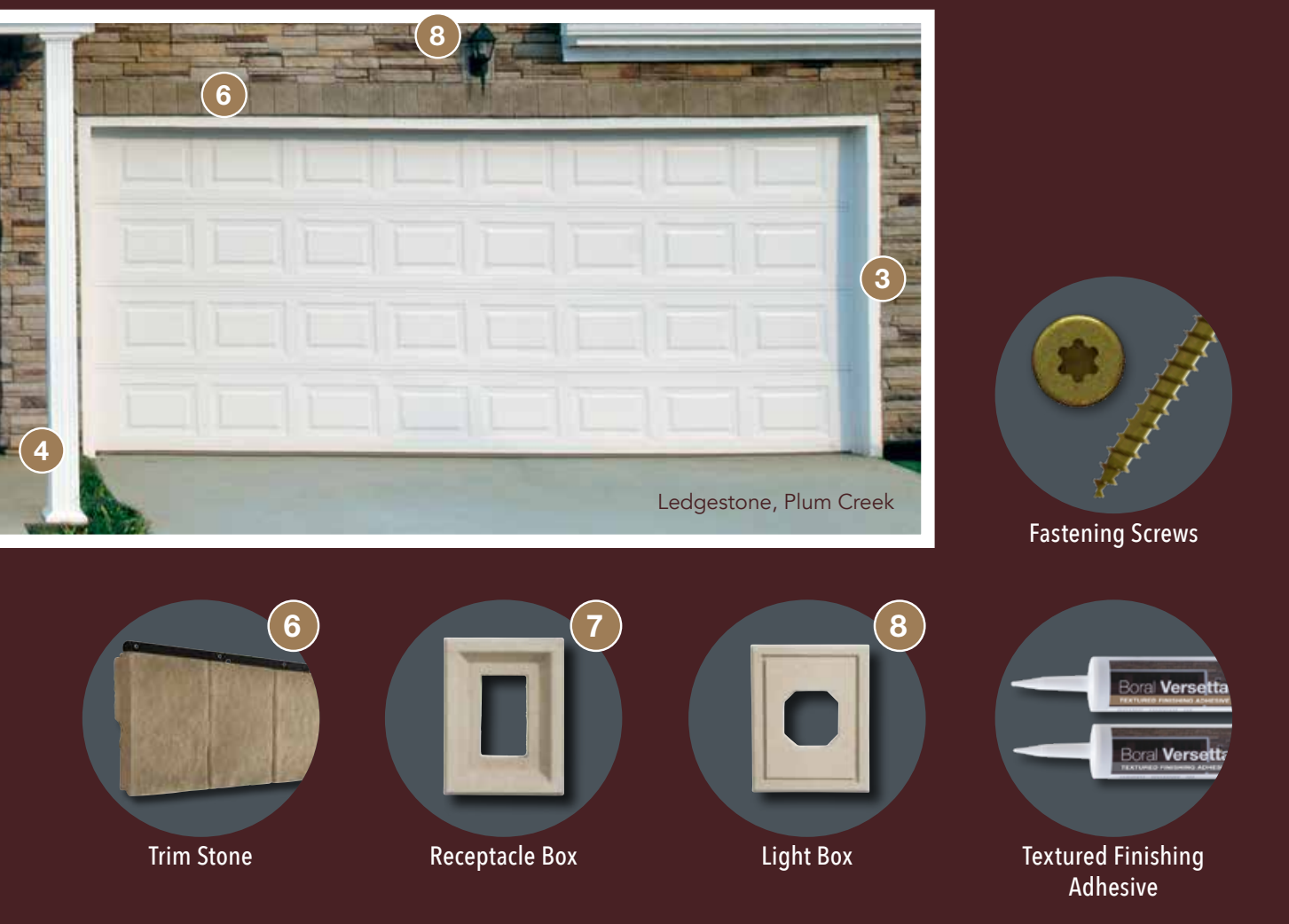
DRAWN BY: EWH, MJR

CHECKED BY: EWH

SHEET: MW-7.3 MATERIAL SPECS

THE VERSETTA STONE® SYSTEM

FROM START TO FINISH, THE COMPLETE SYSTEM FOR YOUR NEXT PROJECT



FLAT PANEL
The main component of the Versetta Stone® system, the Flat Panel covers two square feet and weighs approximately 17 lbs. Each panel is embedded with a G-90 galvanized nail strip* that allows for easy installation with mechanical fasteners.

*Includes a 50 year corrosive resistant warranty.

UNIVERSAL CORNER
The Universal Corner panels are the same size and shape as Flat panels but have finished ends. Universal Corner panels fit neatly with Flat panels and are designed for use on end wall terminations and for inside and outside corners. The panels must be cut to create right and left panels.

Mortarless panels are designed for quick and easy installation using mechanical fasteners.

Nailing Flange Pre-drilled Weep Holes Groove

Tongue 1/4" Rain Screen (on back)

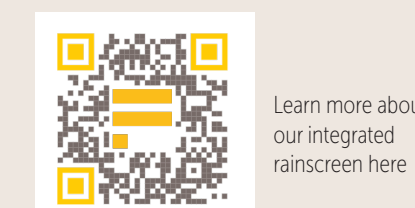
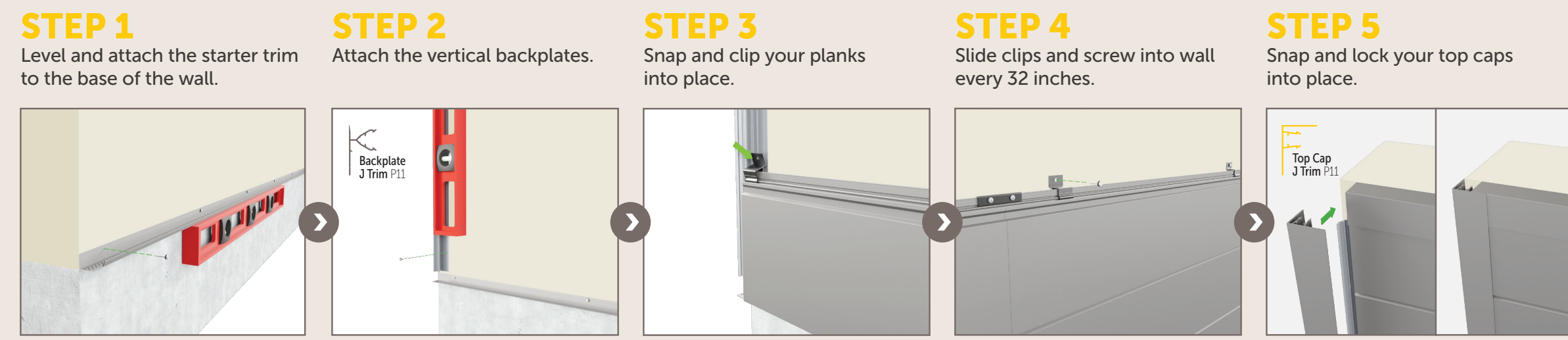
Innovative Installation

FastPlank™ Systems incorporates an innovative "Snap & Slide" clip system that streamlines installation, prevents gapping and buckling, and ensures long-term appeal and functionality of the building product.



How To

Elevate your building's aesthetics by following these five easy-to-follow steps:



Learn more about our integrated rainscreen here.

YOU'RE DONE!
Admire your stunning new wall.

Refined Choices

FastPlank™ Woodgrain options include:



MODERN

Solid and woodgrain color options available to help spark creativity for any project. A system complete with concealed fasteners ensure all designs will boast a sleek, smooth, and polished finish.

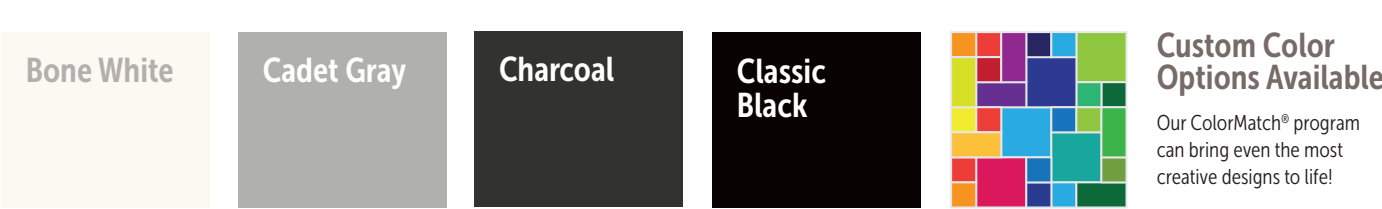
AFFORDABLE

With our 50-year product warranty, your project now is responsibility-free. FastPlank™ can be refinished, repainted, and reinstalled at a fraction of the cost of a complete siding replacement.

DURABLE

Finishes boast the ability to resist fading caused by UV rays, so your color stays fresh. Built-in rainscreen with proven durability for superior protection against high winds, hail, and fire.

Solid Color options include:



Hardie® Reveal™ Panel

SMOOTH INSTALLATION REQUIREMENTS

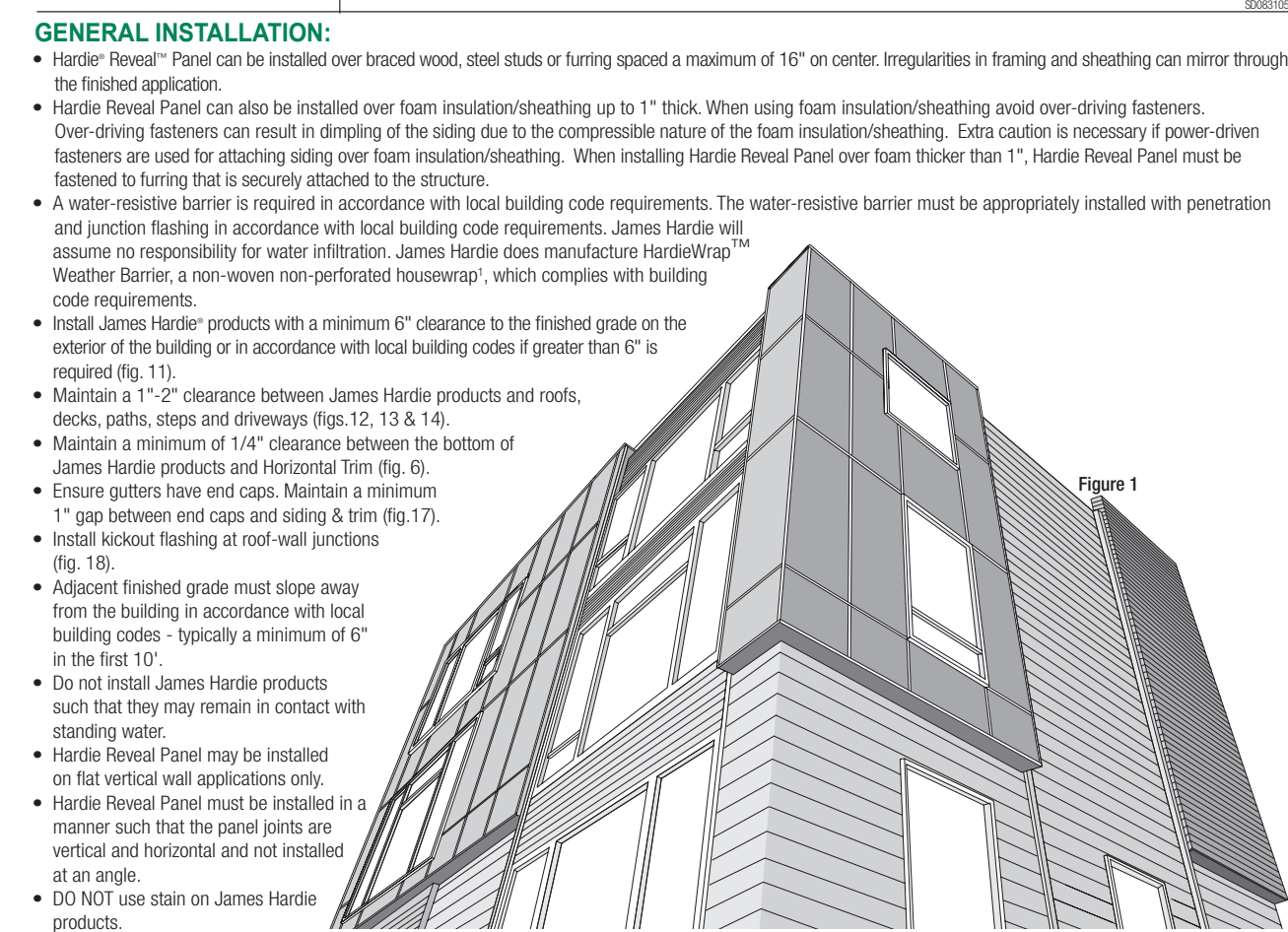
IMPORTANT: FAILURE TO INSTALL AND FINISH THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND JAMES HARDIE WRITTEN APPLICATION INSTRUCTIONS MAY LEAD TO PERSONAL INJURY, AFFECT SYSTEM PERFORMANCE, VIOLATE LOCAL BUILDING CODES, AND AFFECT THE PRODUCT ONLY WARRANTY. BEFORE INSTALLATION, CONFIRM THAT YOU ARE USING THE CORRECT HARDIEZONE INSTRUCTIONS. TO DETERMINE WHICH HARDIEZONE APPLIES TO YOUR LOCATION, VISIT WWW.HARDIEZONE.COM OR CALL 1-866-942-7343 (866 9HARDIE). HARDIE® REVEAL™ PANEL AND REVEAL™ TRIMS DO NOT FORM A MOISTURE MANAGEMENT SYSTEM, THE ARCHITECT AND THE BUILDER ARE RESPONSIBLE FOR DESIGNING AND INSTALLING A CODE COMPLIANT ENVELOPE.

STORAGE & HANDLING: Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry panels on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and handling of the product.

CUTTING INSTRUCTIONS: OUTDOORS: 1. Perform cutting station so that wind will blow dust away from user and others in working area. 2. Use one of the following methods: a. Better: 1. Dust reducing circular saw equipped with a hardibond™ saw blade and HEPA vacuum extraction. c. Good: 1. Dust reducing circular saw with a HardieBade saw blade. 2. Use for use for maximum cutting.

NEVER use a power saw indoors. NEVER use a circular saw blade that does not carry the HardieBade saw blade trademark. NEVER dry sweep - Use wet suppression or HEPA vacuum.

Important Note: For maximum protection (lowest respirable dust production), James Hardie recommends always using "better" dust cutting methods when feasible. NIOSH-approved respirators can be used in conjunction with above cutting practices to further reduce dust exposure. Additional exposure information is available at www.proshield.com to help you determine the most appropriate cutting method for your job requirements. For more information, contact James Hardie or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.



WARNING: AVOID BREATHING SILICA DUST
James Hardie products contain respirable crystalline silica, which is known to be a cause of cancer and is considered by IARC and NIOSH to be a cause of cancer from some occupational sources. Respirable crystalline silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling: (1) work in outdoor areas with ample ventilation; (2) use the correct means for cutting or where not feasible, use a hardibond™ saw blade and dust-reducing circular saw attached to a HEPA vacuum; (3) wear a proper fitted, NIOSH-approved dust mask or respirator; (4) wear eye protection; (5) use HEPA vacuum or wet cleanup methods; never dry sweep. For further information, refer to installation instructions and Material Safety Data Sheet available at www.proshield.com or by calling 1-866-942-7343. FAILURE TO ADHERE TO OUR WARNINGS, NOTES, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

GENERAL INSTALLATION CONTINUED:

Fastener Requirements:

- Refer to Table 1 to determine appropriate fastener, and the Hardie® Reveal Panel Technical Data Sheet for appropriate fastener spacing.
- Exposed fasteners must be used to fasten Reveal™ Panel (Fig. 1B).
- Position fasteners a minimum 3/4" from panel edges and no closer than 2" away from corners.
- When using non-rails sheathing such as foam and gypsum, fastener length must be increased to accommodate the additional thickness.
- Stainless Steel fasteners are recommended when installing James Hardie® products.

Attaching Hardie® Reveal™ Panel

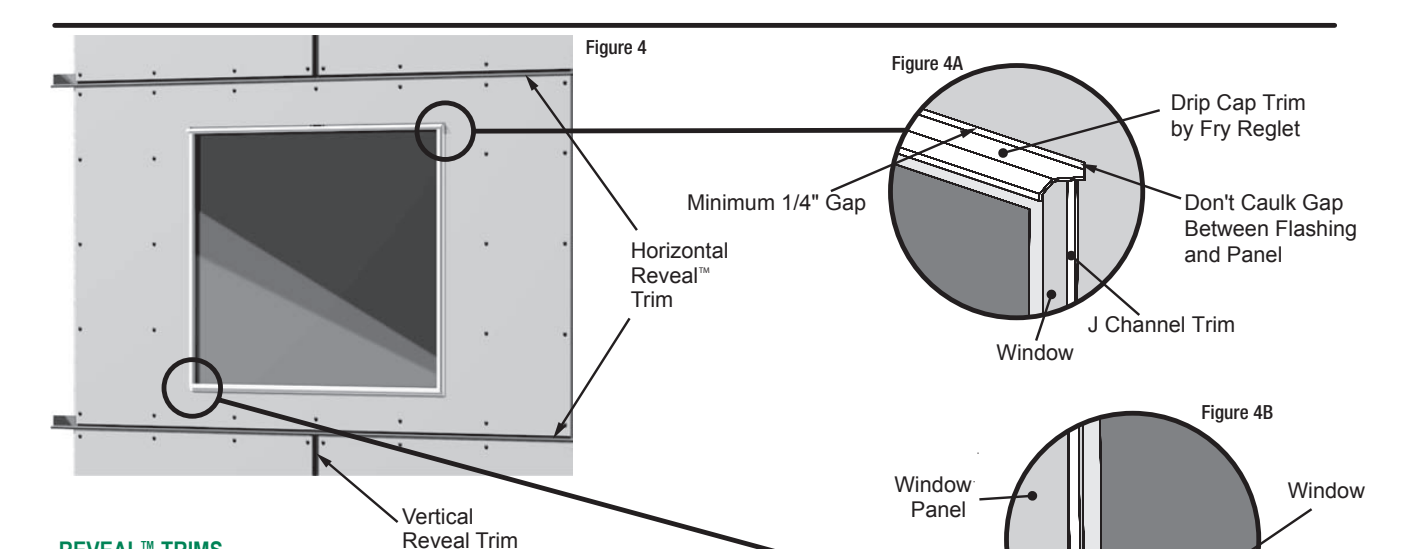
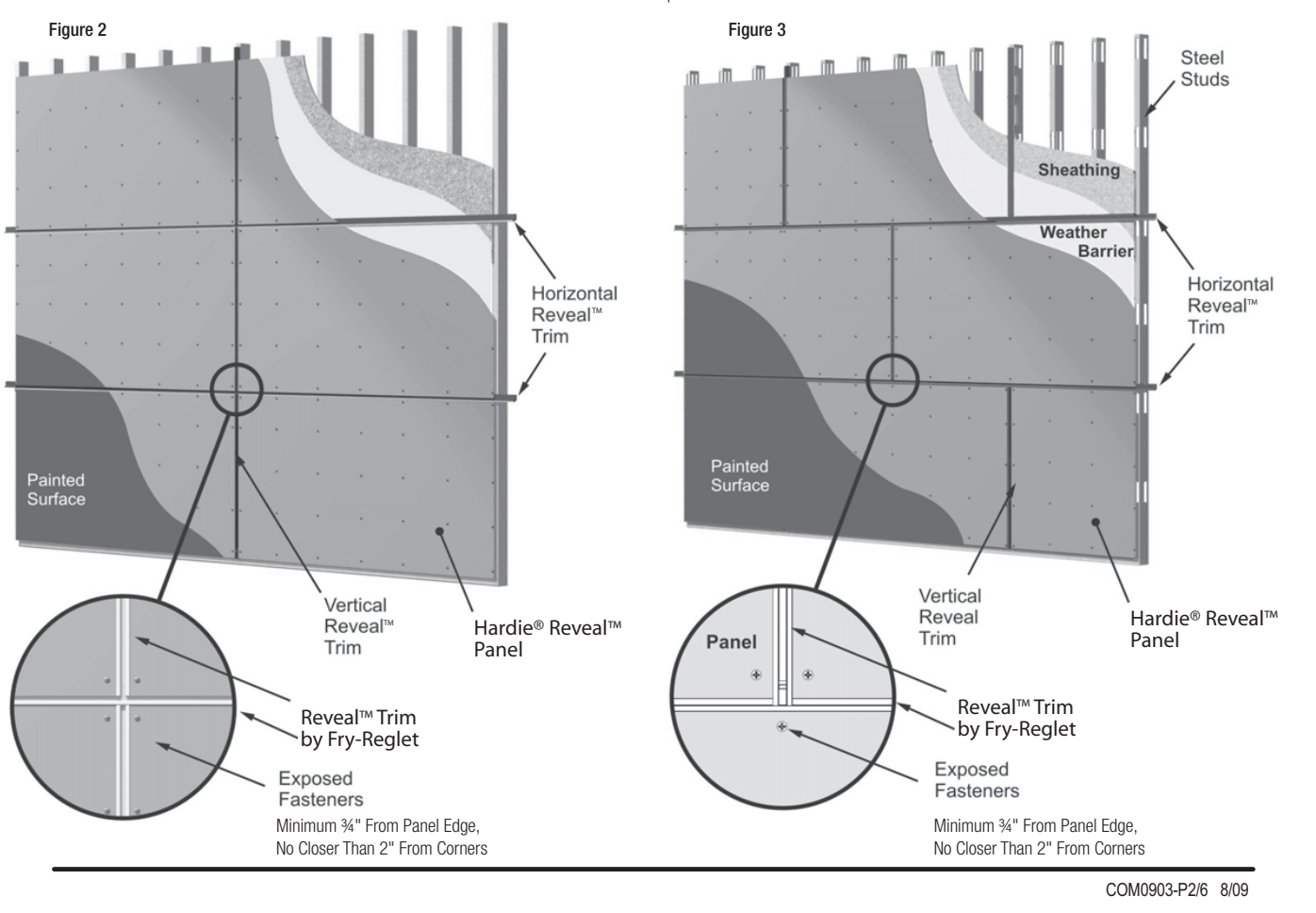
- Do not bridge floors with Hardie® Reveal Panel siding. Horizontal joints should always be created between floors (Fig. 1B).
- Additional framing may be required at internal/external corners and at vertical joints to accommodate attaching Reveal Panel and Trims.
- When installing Hardie Reveal Panel, make sure the bottom edge of the panel above the Horizontal Trim is a factory sealed edge (Fig. 6).
- Hardie Reveal Panel vertical joints may be joined over or off of stud when incorporating the proper fastening configurations. (Refer to the Hardie Reveal Panel Technical Data Sheet for proper fastening configurations.)
- Maximum 20 gauge steel vertical strapping may be used with steel framing to accommodate off-stud vertical joints when incorporating the proper fastening configuration. (Refer to the Hardie Reveal Panel Technical Data Sheet for proper fastening configurations.)
- Hardie Reveal Panel may be installed over framing and/or a rainscreen application when incorporating the proper fastening configurations. (Refer to the Hardie Reveal Panel Technical Data Sheet for proper fastening configurations.)
- When joining panels over stud it may be necessary to add a double stud at the location of the vertical joint to ensure minimum edge fastening distance.
- Fasteners around the perimeter of the panel may be used to fasten both Hardie Reveal Panel and the Reveal Trims.

Attaching Reveal™ Trims by Fry Reglet

- Reveal Trims should never be installed such that the exterior flange could collect water.
- Horizontal Trims should be run in a continuous fashion across the face of the structure.
- Inside and Outside Corner Trims should be installed in a continuous fashion from bottom to top of structure.

Table 1 - Hardie Reveal Panel Fastener Specifications

Fastening Substrate	Approved Fastener
Wood	10-18 - 1 1/2" long X 0.375" HD pan head screw
Minimum 20 gauge steel	8-18 - 1 5/8" long X 0.350" HD pan head screw



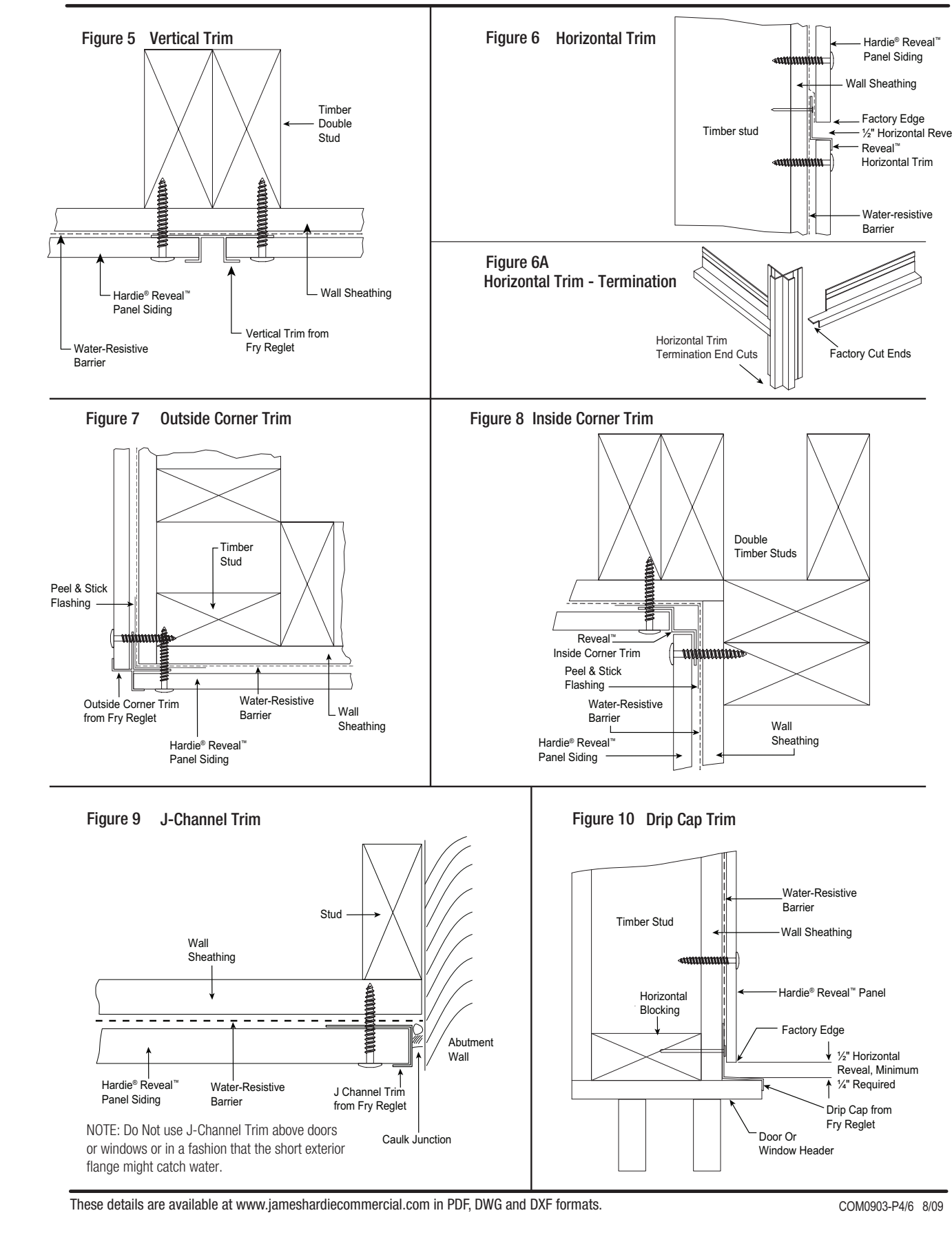
REVEAL™ TRIMS
Aluminum components designed specifically for use with Hardie® Reveal™ Panel manufactured by Fry Reglet, Inc. (www.fryreglet.com). When field painting the aluminum reveals ensure that the product ordered has a chem-film treatment for improved paint adhesion performance.

- Reveal Trim should conform to a 6063 alloy in a T-5 temper - with a minimum thickness of .050".
- Chem Film coating shall conform to ASTM D4139-07 and ASTM B 136-94(1998)
- Clear Anodized Coating shall conform to ASTM B244-07 and ASTM B 136-94(1998)
- Reveal Trims by Fry Reglet are available in two exterior finishes:
 - Chem Film for painting in the field - painted in field within 90 days of installation
 - Clear Anodized for leaving bright aluminum color
- Contact Fry Reglet for Technical Information - 770-521-9660 or www.fryreglet.com

Table 2

Profile	Description	Quantity/Size (approx)	Refer to:	JH Part Number:
Vertical Trim	Used as vertical trim when abutting panels and producing a 1/2" Reveal. Vertical Trim is designed to fit under Horizontal Trim. Never install Vertical Trims in horizontal applications.	Qty: 20 per box Length: 12'	Figure 5	Clear - 280110 Chem Film - 280111
Horizontal Trim	Designed to be installed at horizontal abutments of panel and run in a continuous detail across the face of the structure.	Qty: 20 per box Length: 12'	Figure 6	Clear - 280100 Chem Film - 280101
Horizontal Trim - Termination	Factory cut ends for termination into outside corner trims. One end has left hand cut with the other end having a right end cut.	Qty: 20 per box Length: 12'	Figure 6-A	Clear - 280102 Chem Film - 280103
Outside Corner Trim	Utilized on the outside corners of structure to provide a clean aesthetic detail. James Hardie recommends running this in a continuous vertical detail from bottom to top of corner.	Qty: 10 per box Length: 12'	Figure 7	Clear - 280120 Chem Film - 280121
Inside Corner Trim	Used to complete inside corners of structure. James Hardie recommends running this in a continuous vertical detail from bottom to top of corner.	Qty: 10 per box Length: 12'	Figure 8	Clear - 280130 Chem Film - 280131
J-Channel Trim	Designed to terminate panels when abutting windows, doors or other penetrations. Never install J-Channel in a manner that exterior flange can catch water. J-Channel should not be used on the top header of doors or windows.	Qty: 10 per box Length: 12'	Figure 9	Clear - 280140 Chem Film - 280141
Drip Cap Trim	Used to flash above windows, doors and other penetrations.	Qty: 10 per box Length: 12'	Figure 10	Clear - 280150 Chem Film - 280151

Do not install Reveal J-Channel or Vertical Trim on Horizontal applications where the exterior flange will collect water.



NOTE: Do Not Use J-Channel Trim above doors or windows or in a fashion that the short exterior flange might catch water.

These details are available at www.jameshardiecommercial.com in PDF, DWG and DXF formats.

INSTALL GUIDE: ACM/FIBER CEMENT PANELS 1



INSTALL GUIDE: ACM/FIBER CEMENT PANELS 2



INSTALL GUIDE: PVC PANELS



INSTALL GUIDE: FASTPLANK PANELS



INSTALL GUIDE: VERSETTA STONE PANELS



NOT ALL MATERIAL SPEC'S SHOWN WILL APPLY TO EVERY PROJECT. REFER TO THE OTHER MW DOCUMENTS FOR CLARIFICATION.

USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.

REVISIONS

NO.	DATE	DESCRIPTION
0	4/4/22	FOR PERMIT

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COMPILED BY: JAMES HARDIE - LOVIELO, A.F.N.
2021.07.01

modernwash
5220 Scottsville Road
Bowling Green, KY 42104

Model:
Apex Tower

STARWASH EXPRESS
NEW CAR WASH BUILDING FOR:
925 LOCKWOOD BLVD
OVIDO, FL 32765

STATE OF FLORIDA
ERIC WILLIAM HATHAWAY
REGISTERED ARCHITECT
AR98146

PRELIMINARY

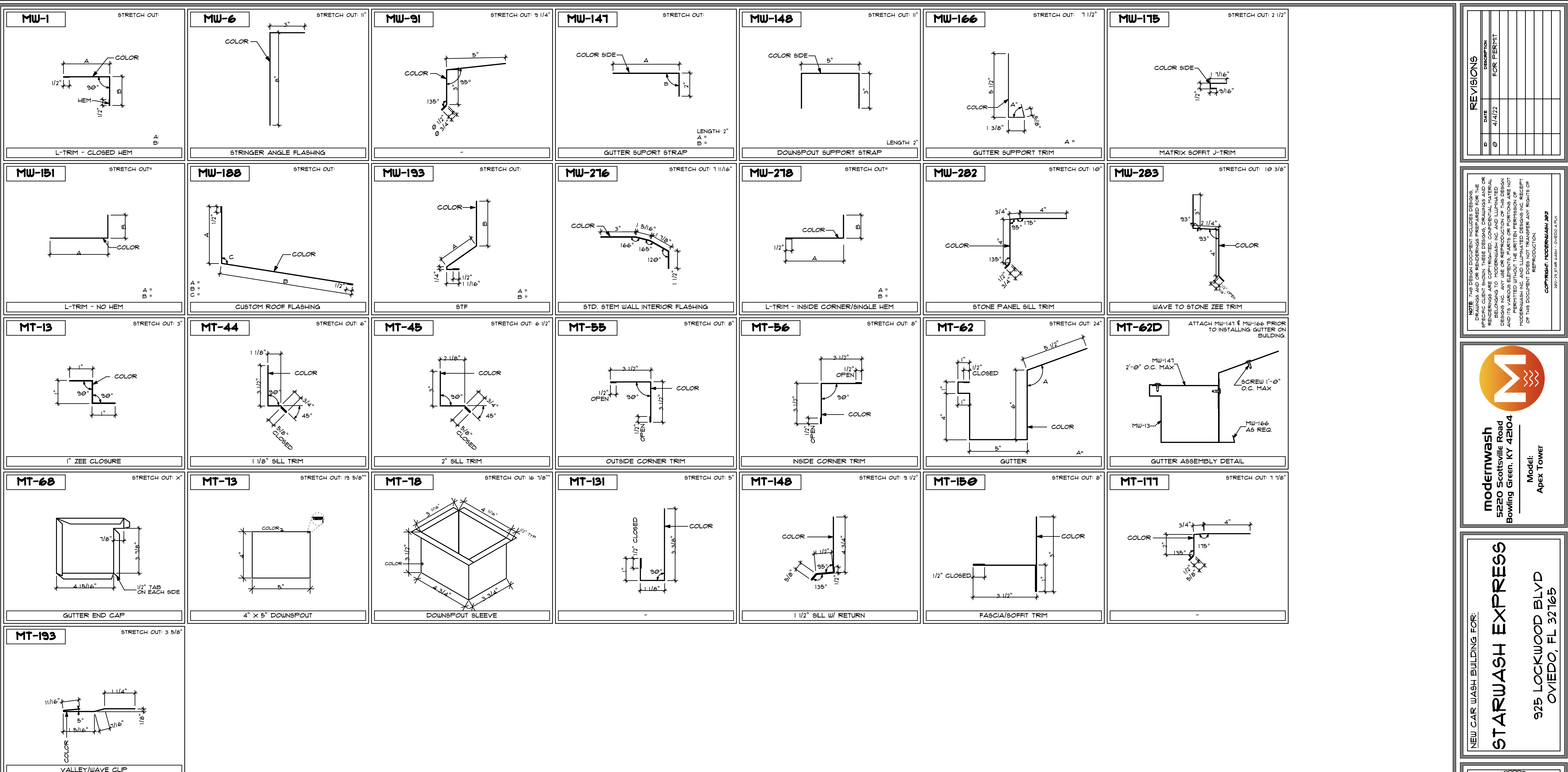
DATE OF CREATION:
10/18/2021

PLOT DATE:
4/4/22

DRAWN BY:
EWH, MJR

CHECKED BY:
EWH

SHEET:
MW-7.4
MATERIAL SPECS

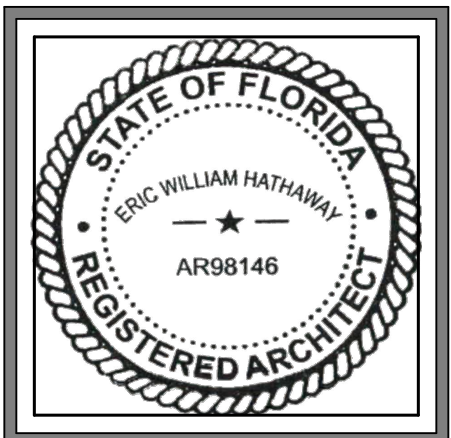


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DATE	4/4/22

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 MODERNWASH 2021
 302175 STAR WASH - LOYDECO.A.F.L.N.

modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OYIEDO, FL 32165



PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-9.1 FLASHING/TRIM

USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.

PANEL SCHEDULE				
ID	#	WIDTH	LENGTH	SURFACE
A01	10	48"	44"	PANTONE 444C
A02	12	48"	37"	PANTONE 444C
A03	3	48"	24"	PANTONE 444C
A04	5	48"	34"	PANTONE 444C
A05	1	40"	34"	PANTONE 444C
A06	1	18"	24"	PANTONE 444C
A07	1	40"	37"	PANTONE 444C
A08	4	32"	19"	PANTONE 444C
A09	1	40"	24"	PANTONE 444C
A10	1	17"	37"	PANTONE 444C
A11	3	48"	26"	PANTONE 444C
A12	1	48"	18"	PANTONE 444C
A13	1	22"	32"	PANTONE 444C
A14	1	16"	44"	PANTONE 444C
A15	2	48"	13"	PANTONE 444C
A16	2	48"	32"	PANTONE 444C
A17	1	48"	12"	PANTONE 444C
A18	1	14"	32"	PANTONE 444C
A19	1	22"	44"	PANTONE 444C
A20	1	30"	44"	PANTONE 444C
A21	1	34"	24"	PANTONE 444C
A22	4	36"	37"	PANTONE 444C
A23	2	36"	17 1/4"	PANTONE 444C
A24	2	48"	17 1/4"	PANTONE 444C
B01	02	48"	44"	PANTONE COOL GREY IC
B02	2	24"	44"	PANTONE COOL GREY IC
B03	8	48"	24"	PANTONE COOL GREY IC
B04	31	48"	32"	PANTONE COOL GREY IC
B05	1	44"	32"	PANTONE COOL GREY IC
B06	1	12"	24"	PANTONE COOL GREY IC
B07	1	39"	44"	PANTONE COOL GREY IC
B08	1	30"	44"	PANTONE COOL GREY IC
B09	1	23"	44"	PANTONE COOL GREY IC
B10	1	12"	44"	PANTONE COOL GREY IC
B11	4	48"	12"	PANTONE COOL GREY IC
B12	4	35"	32"	PANTONE COOL GREY IC
B13	6	37"	32"	PANTONE COOL GREY IC
B14	2	19"	32"	PANTONE COOL GREY IC
B15	2	44"	44"	PANTONE COOL GREY IC
B16	2	48"	13"	PANTONE COOL GREY IC
B17	3	32"	44"	PANTONE COOL GREY IC
B18	1	11"	44"	PANTONE COOL GREY IC
B19	1	48"	37"	PANTONE COOL GREY IC
B20	1	48"	18"	PANTONE COOL GREY IC
B21	1	48"	26"	PANTONE COOL GREY IC
B22	1	32"	26"	PANTONE COOL GREY IC
D1	4	48"	36"	PANTONE COOL GREY IC
D2	4	44"	36"	PANTONE COOL GREY IC
D3	2	32"	36"	PANTONE COOL GREY IC
D4	2	18"	36"	PANTONE COOL GREY IC
	231			

REVISIONS			
NO.	DATE	DESCRIPTION	BY
0	4/1/22	FOR PERMIT	

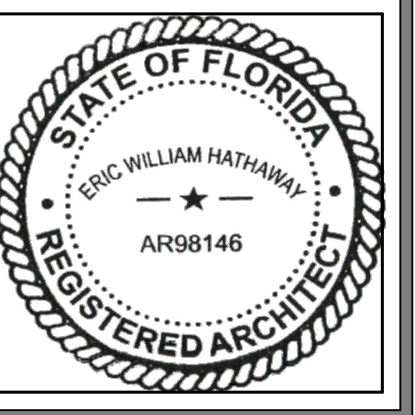
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 MODERNWASH INC. 2021 75 STATE ROAD 100, OVIEDO, FL 32765



modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:

STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OVIEDO, FL 32765



STATE OF FLORIDA
 ERIC WILLIAM HATHAWAY
 REGISTERED ARCHITECT
 AR98146

PRELIMINARY

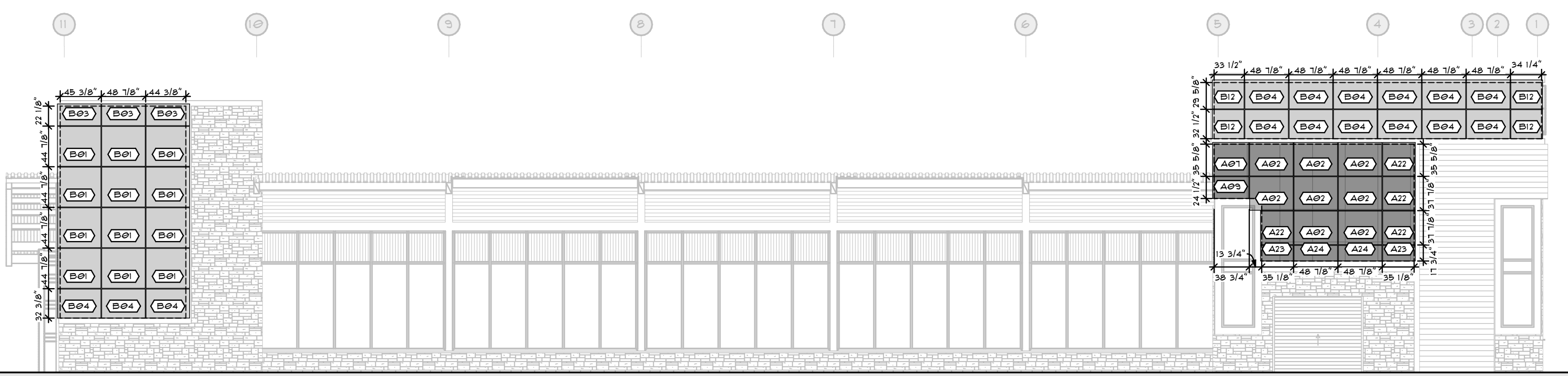
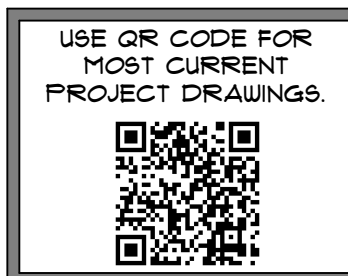
DATE OF CREATION:
10/18/2021

PLOT DATE:
4/4/22

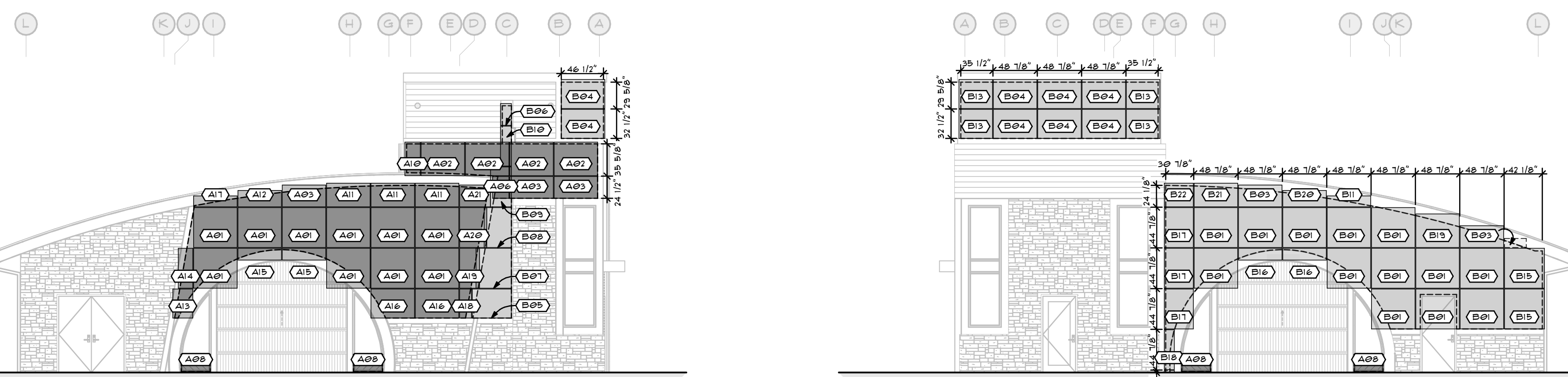
DRAWN BY:
EWH, MJR

CHECKED BY:
EWH

SHEET:
MW-9.2
ACM LAYOUT

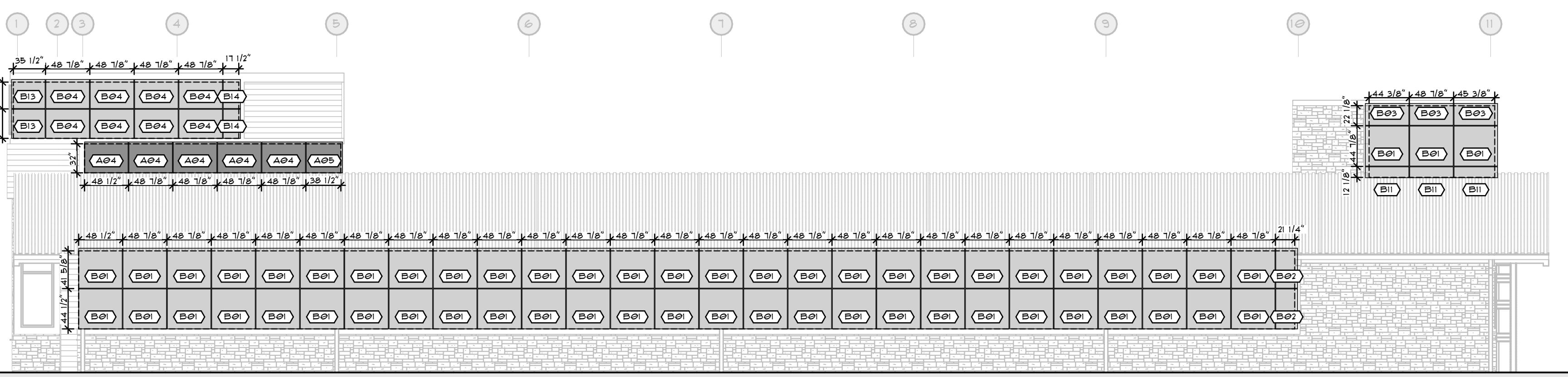


A SOUTH FCP LAYOUT
 SCALE 1/8" = 1'-0"

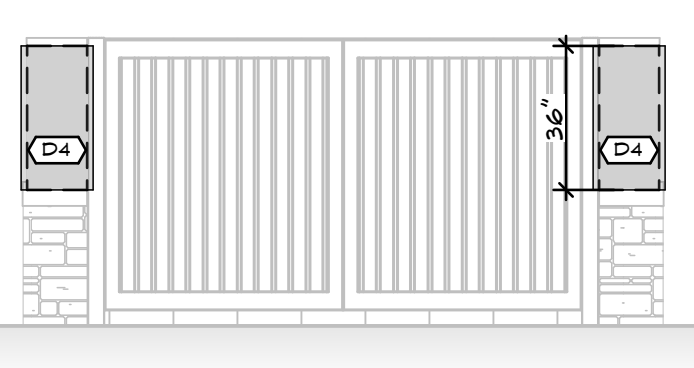


F EAST FCP LAYOUT
 SCALE 1/8" = 1'-0"

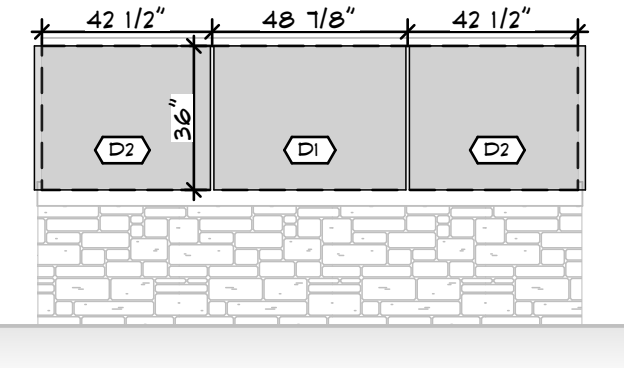
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 SCALE 1/8" = 1'-0"



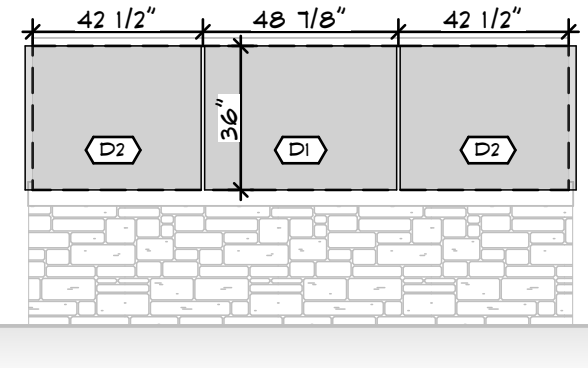
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 SCALE 1/8" = 1'-0"



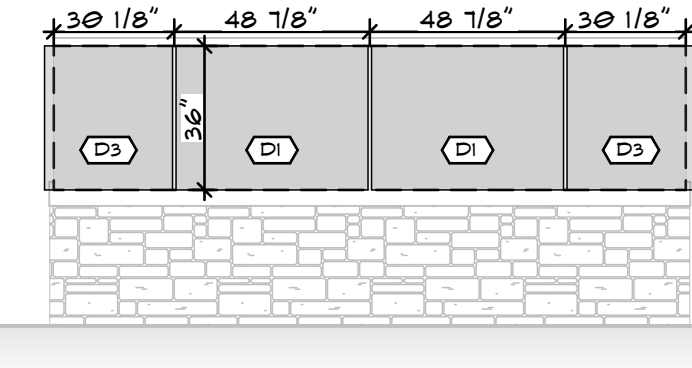
P SOUTH FCP DUMPSTER
 SCALE 1/4" = 1'-0"



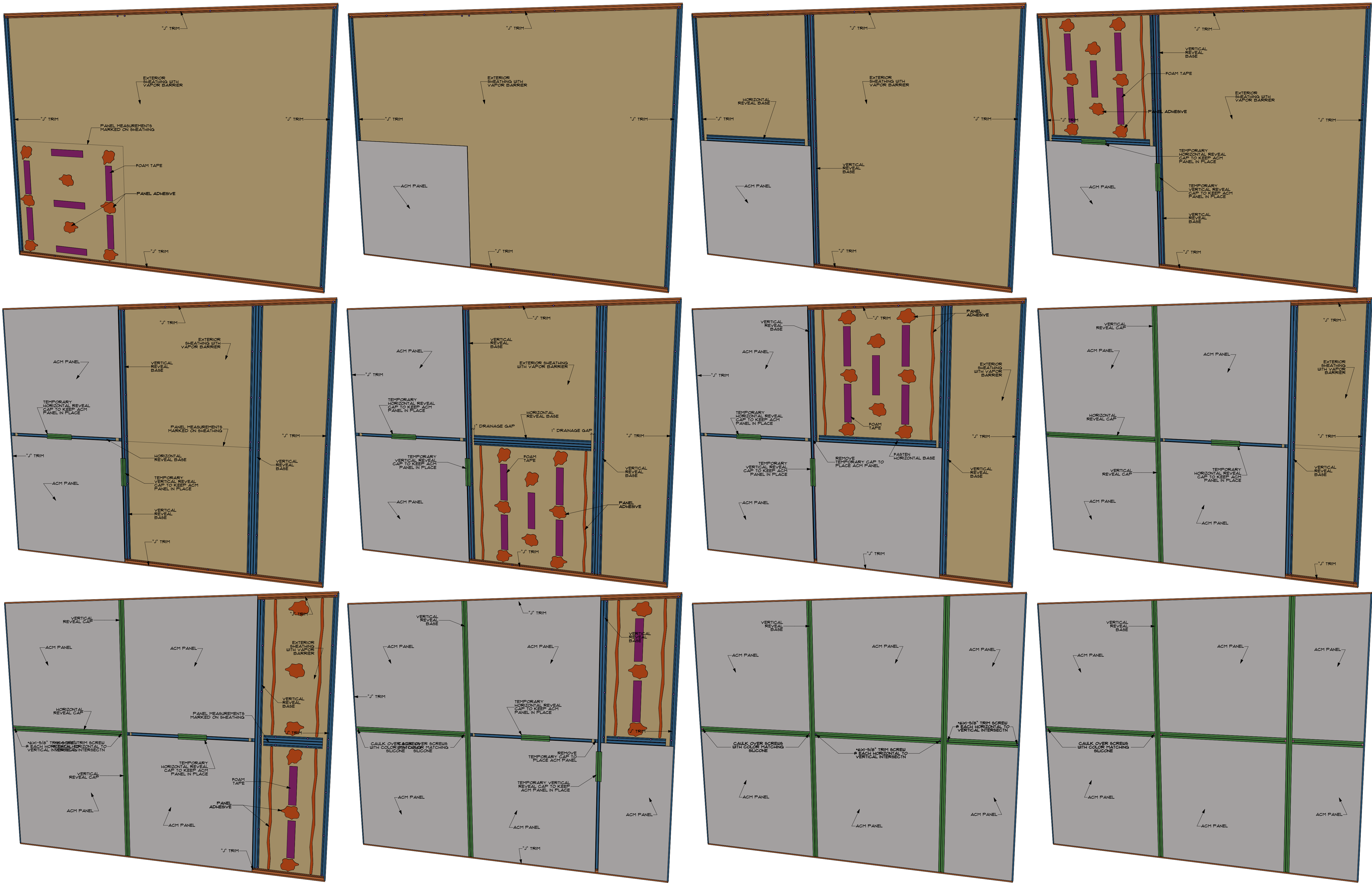
Q EAST FCP DUMPSTER
 SCALE 1/4" = 1'-0"



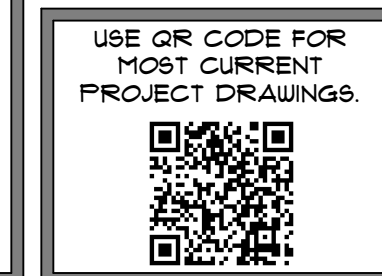
R WEST FCP DUMPSTER
 SCALE 1/4" = 1'-0"



S NORTH FCP DUMPSTER
 SCALE 1/4" = 1'-0"



- INSTALL NOTES:**
1. INSTALL VERTICAL CAP FIRST THEN FIELD MEASURE HORIZONTALS.
 2. CAP KNOCKS INTO BASE AFTER BASE, PANEL, AND TEMPORARY CAP HAVE BEEN INSTALLED
 3. TYPICAL FOAM STRIP RANGE FROM 4" TO 6".
 4. USE EXTREME CARE MAINTAINING A STRAIGHT AND CONTINUOUS LINE TRIM.
 5. DO NOT LEAVE PROTECTIVE FILM ON PANELS FOR AN EXTENDED PERIOD OF TIME AFTER INSTALLATION

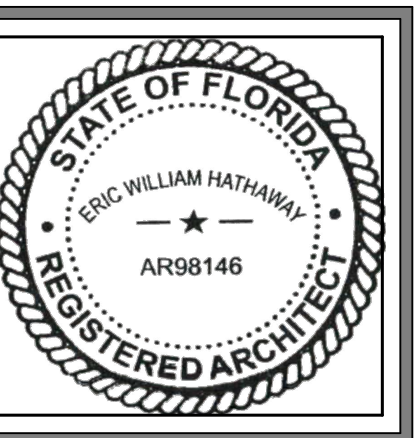


REVISIONS	
NO.	DESCRIPTION
1	FOR PERMIT
DATE	4/4/22

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 MODERNWASH INC. 2021/19, 2024/04/04 - OVIDO, A.F.N.

modernwash
 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OVIDO, FL 32765



PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-9.3 ACM DETAILS

COMPANY NAME: MODERNWASH PROJECT NAME: STARWASH
 PHONE NUMBER: 1-800-511-1208 PROJECT LOCATION: OVIEDO, FL
 CONTACT NAME: ERIC HATHAWAY DESCRIPTION: WASH BAY LOW-SIDE
 EMAIL ADDRESS: ERIC@MODERNWASH.NET

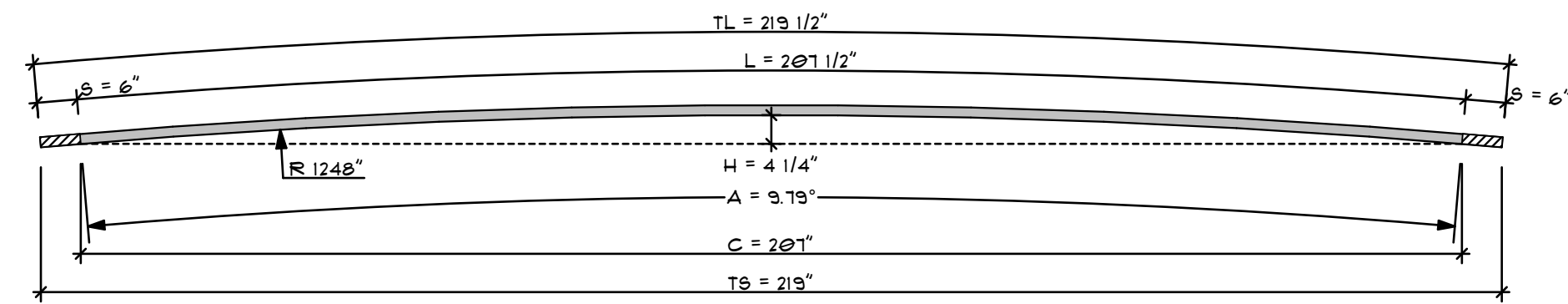
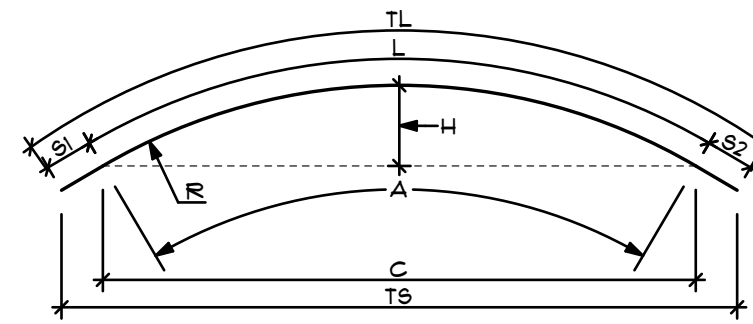
PANEL PROFILE NAME: PANEL 1 MANUFACTURER: MCELROY
 COLOR: TEXAS SILVER METALLIC

MATERIAL SUBSTRATE: STEEL GAUGE: 24

PANEL CURVATURE TYPE: CONVEX CONCAVE
 COLOR SIDE: TOP BOTTOM

PANEL QUANTITY: 48 PANEL LENGTH: 219 1/2"

(L) LENGTH OF ARC SECTION: 201 1/2" (S1) STRAIGHT LEG #1: 6"
 (C) CORD OF ARC SECTION: 201" (S2) STRAIGHT LET #2: 6"
 (H) HEIGHT OF ARC SECTION: 4 1/4"
 (A) ANGLE OF ARC SECTION: 9.79 (TL) TOTAL LENGTH: 219 1/2"
 (R) RADIUS OF ARC AT DECK: 1248" (TS) TOTAL SPAN: 219"



COMPANY NAME: MODERNWASH PROJECT NAME: STARWASH
 PHONE NUMBER: 1-800-511-1208 PROJECT LOCATION: OVIEDO, FL
 CONTACT NAME: ERIC HATHAWAY DESCRIPTION: WASH BAY # TOWER
 EMAIL ADDRESS: ERIC@MODERNWASH.NET

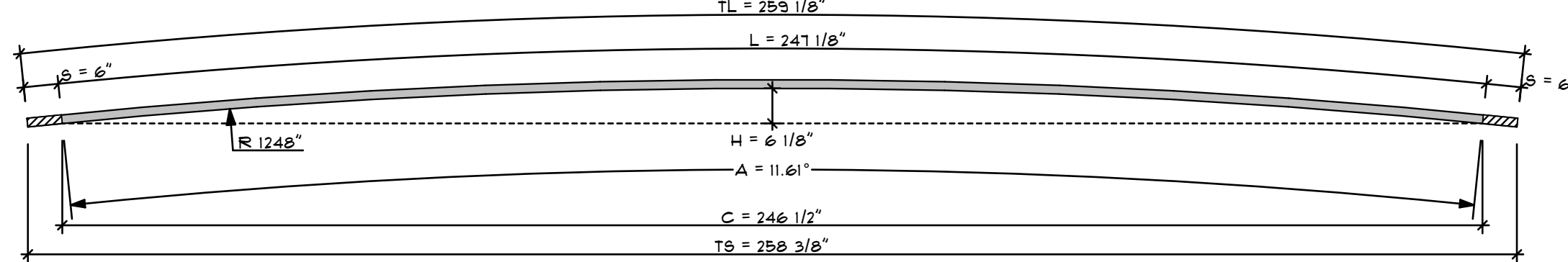
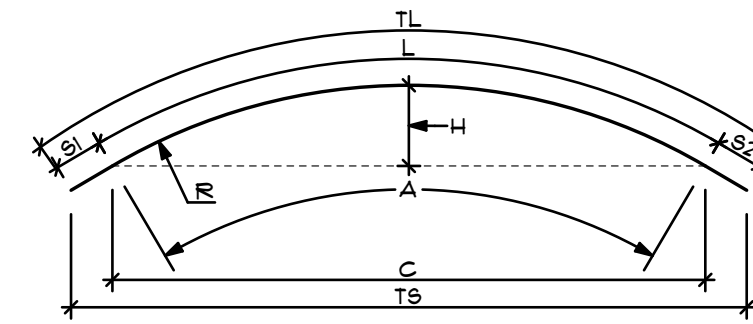
PANEL PROFILE NAME: PANEL 2 MANUFACTURER: MCELROY
 COLOR: TEXAS SILVER METALLIC

MATERIAL SUBSTRATE: STEEL GAUGE: 24

PANEL CURVATURE TYPE: CONVEX CONCAVE
 COLOR SIDE: TOP BOTTOM

PANEL QUANTITY: 10 PANEL LENGTH: 259 1/8"

(L) LENGTH OF ARC SECTION: 241 1/8" (S1) STRAIGHT LEG #1: 6"
 (C) CORD OF ARC SECTION: 246 1/2" (S2) STRAIGHT LET #2: 6"
 (H) HEIGHT OF ARC SECTION: 6 1/8"
 (A) ANGLE OF ARC SECTION: 11.61 (TL) TOTAL LENGTH: 259 1/8"
 (R) RADIUS OF ARC AT DECK: 1248" (TS) TOTAL SPAN: 258 3/8"



COMPANY NAME: MODERNWASH PROJECT NAME: STARWASH
 PHONE NUMBER: 1-800-511-1208 PROJECT LOCATION: OVIEDO, FL
 CONTACT NAME: ERIC HATHAWAY DESCRIPTION: WASH BAY LOW-SIDE
 EMAIL ADDRESS: ERIC@MODERNWASH.NET

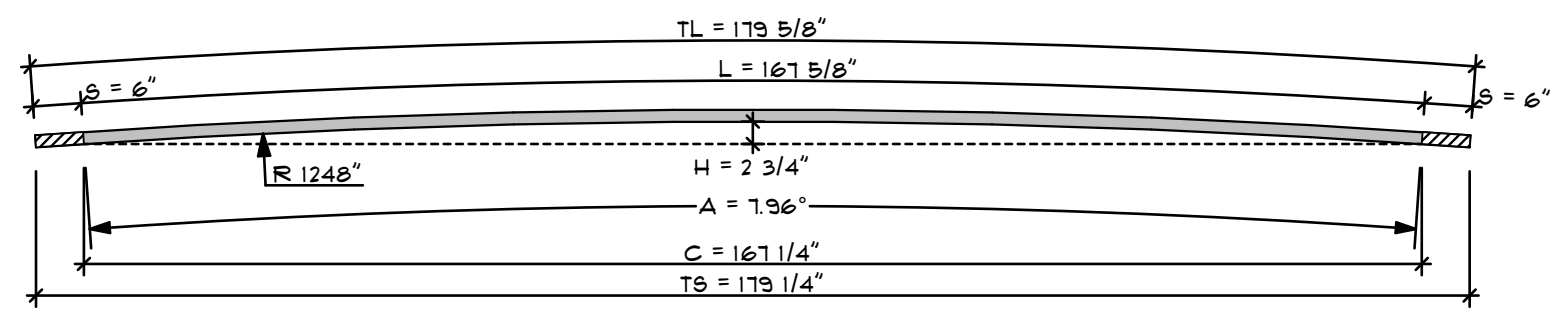
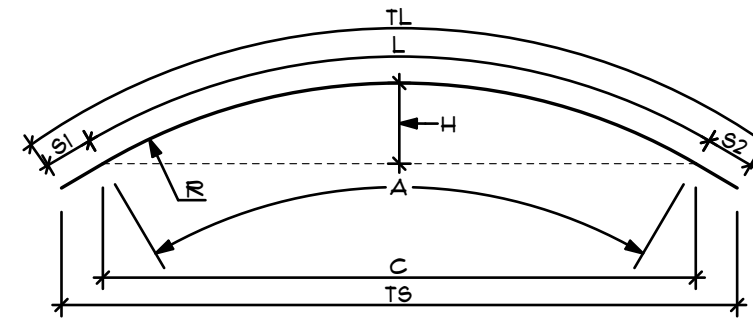
PANEL PROFILE NAME: PANEL 3 MANUFACTURER: MCELROY
 COLOR: TEXAS SILVER METALLIC

MATERIAL SUBSTRATE: STEEL GAUGE: 24

PANEL CURVATURE TYPE: CONVEX CONCAVE
 COLOR SIDE: TOP BOTTOM

PANEL QUANTITY: 38 PANEL LENGTH: 179 5/8"

(L) LENGTH OF ARC SECTION: 167 5/8" (S1) STRAIGHT LEG #1: 6"
 (C) CORD OF ARC SECTION: 167 1/4" (S2) STRAIGHT LET #2: 6"
 (H) HEIGHT OF ARC SECTION: 2 3/4"
 (A) ANGLE OF ARC SECTION: 1.96 (TL) TOTAL LENGTH: 179 5/8"
 (R) RADIUS OF ARC AT DECK: 1248" (TS) TOTAL SPAN: 179 1/4"



COMPANY NAME: MODERNWASH PROJECT NAME: STARWASH
 PHONE NUMBER: 1-800-511-1208 PROJECT LOCATION: OVIEDO, FL
 CONTACT NAME: ERIC HATHAWAY DESCRIPTION: WASH BAY # TOWER
 EMAIL ADDRESS: ERIC@MODERNWASH.NET

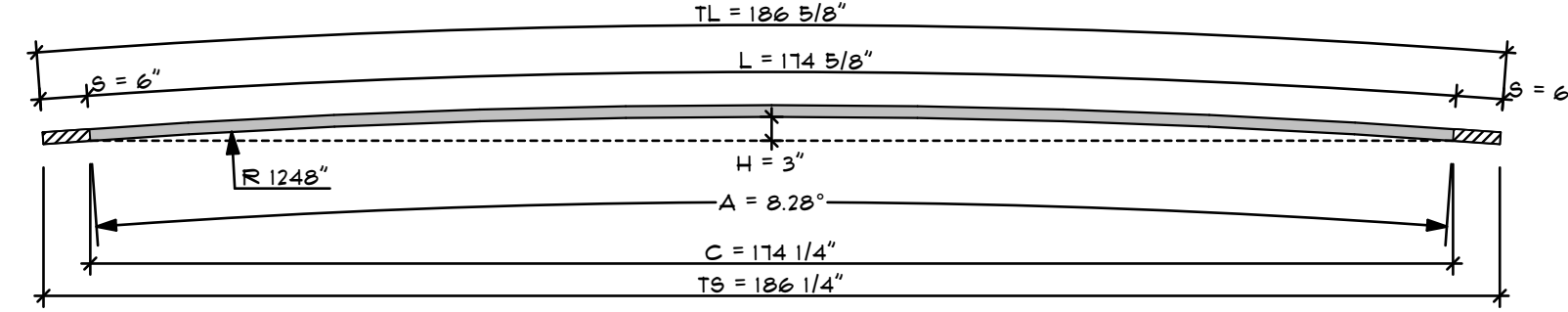
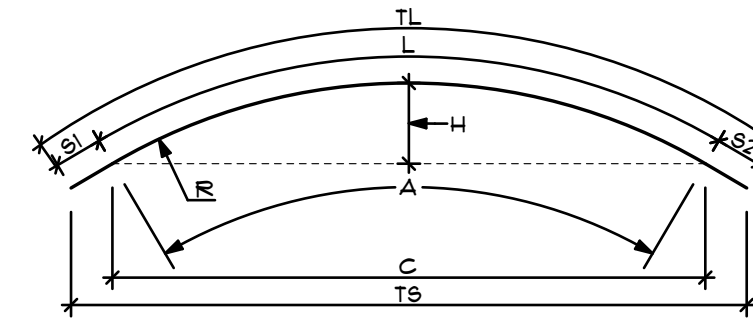
PANEL PROFILE NAME: PANEL 4 MANUFACTURER: MCELROY
 COLOR: TEXAS SILVER METALLIC

MATERIAL SUBSTRATE: STEEL GAUGE: 24

PANEL CURVATURE TYPE: CONVEX CONCAVE
 COLOR SIDE: TOP BOTTOM

PANEL QUANTITY: 20 PANEL LENGTH: 186 5/8"

(L) LENGTH OF ARC SECTION: 174 5/8" (S1) STRAIGHT LEG #1: 6"
 (C) CORD OF ARC SECTION: 174 1/4" (S2) STRAIGHT LET #2: 6"
 (H) HEIGHT OF ARC SECTION: 3" (TL) TOTAL LENGTH: 186 5/8"
 (R) RADIUS OF ARC AT DECK: 1248" (TS) TOTAL SPAN: 186 1/4"



COMPANY NAME: MODERNWASH PROJECT NAME: STARWASH
 PHONE NUMBER: 1-800-511-1208 PROJECT LOCATION: OVIEDO, FL
 CONTACT NAME: ERIC HATHAWAY DESCRIPTION: WASH BAY LOW-SIDE
 EMAIL ADDRESS: ERIC@MODERNWASH.NET

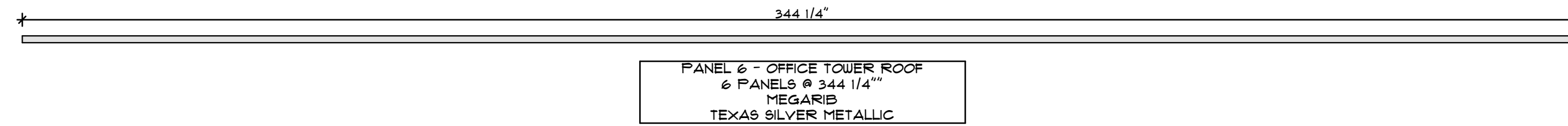
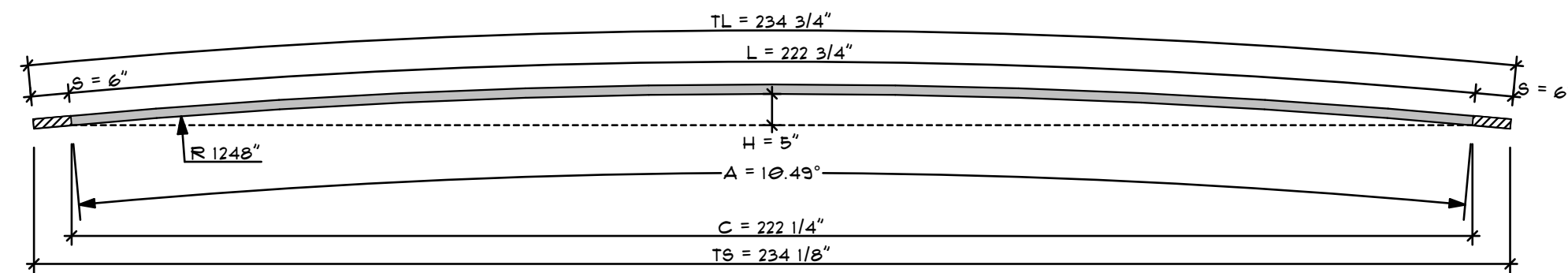
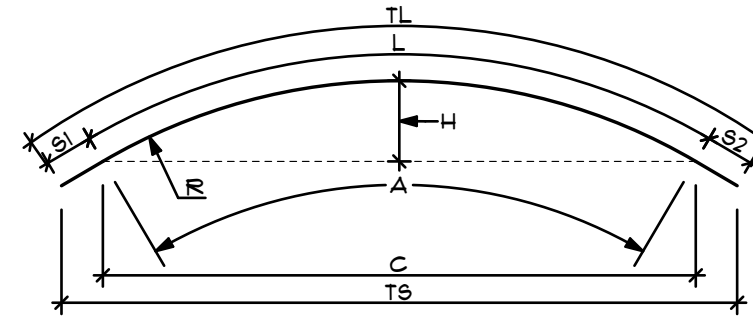
PANEL PROFILE NAME: PANEL 6 MANUFACTURER: MCELROY
 COLOR: TEXAS SILVER METALLIC

MATERIAL SUBSTRATE: STEEL GAUGE: 24

PANEL CURVATURE TYPE: CONVEX CONCAVE
 COLOR SIDE: TOP BOTTOM

PANEL QUANTITY: 18 PANEL LENGTH: 234 3/4"

(L) LENGTH OF ARC SECTION: 222 3/4" (S1) STRAIGHT LEG #1: 6"
 (C) CORD OF ARC SECTION: 222 1/4" (S2) STRAIGHT LET #2: 6"
 (H) HEIGHT OF ARC SECTION: 5" (TL) TOTAL LENGTH: 234 3/4"
 (R) RADIUS OF ARC AT DECK: 1248" (TS) TOTAL SPAN: 234 1/8"



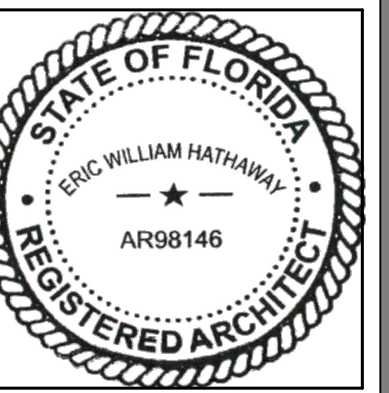
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 5220 Scottsville Road
 Bowling Green, KY 42104
 Model:
 Apex Tower

NEW CAR WASH BUILDING FOR:
STARWASH EXPRESS
 925 LOCKWOOD BLVD
 OVIEDO, FL 32765



PRELIMINARY
DATE OF CREATION: 10/18/2021
PLOT DATE: 4/4/22
DRAWN BY: EWH, MJR
CHECKED BY: EWH
SHEET: MW-9.4 ROOF PANELS

