

# CONSTRUCTION MANAGER'S PROJECT MANUAL **Dow Gardens New Welcome Center**

## BID PACKAGE #3 ADDENDUM #3

February 3, 2025



CONSTRUCTION MANAGER SPENCE BROTHERS

203 S. Washington Avenue, Suite 360 Saginaw, MI 48607 (989) 752-0400



ARCHITECT WTA ARCHITECTS

100 S. Jefferson Avenue, Suite 601 Saginaw, Michigan 48607 (989) 752-8107

## Project Manual Revisions Issued as Addendum NO.3 For The New Dow Welcome Center Bid Pack #3

The following clarifications, modifications and / or revisions to the above project shall be considered a part of the original drawings and specifications.

It shall be the responsibility of the contractor to notify their subcontractors and/or suppliers of the clarifications, modifications, and / or revisions included herein.

- 1. The bid date remains Wednesday February 5, 2025 @ 2:00 P.M.
- 2. Refer to **BC 307 General Trades.** The following clarifications apply to this bid category:
  - a. See sheet A8.13 Include all work and materials to complete the planter details. Electrical, plumbing, and tile will be by others.
  - b. Section 09 7200 Wall Coverings is removed from BC 307 and will be included in BC 313
  - c. Roof sheathing is not to be included by BC 307 it is to be included by BC 308
  - d. Item 33 furnishing expansion control devices has been removed from BC 307.
  - e. BC 307 is responsible for all roof Nailers and framing behind the copper facia.
  - f. Item 31 The low voltage wiring is not required for the roller shades and will not need to be provided by BC 307
- 3. Refer to **BC 309 Metal Panels**. The following clarifications apply to this bid category:
  - a. BC 309 is responsible for the gate in detail 3 / A1.10
- 4. Refer to **BC 311 Drywall, Acoustical, and Framing**. The following clarifications apply to this bid category:
  - a. Cement Board will be supplied and installed by BC 311 not BC 312
  - b. Include all expansion control devices

- 5. Refer to **BC 312 Flooring Hard Tile & Base**. The following clarifications apply to this bid category:
  - a. All cement board behind tiled areas has been removed from this bid category. BC 311 will supply and install all cement board
- 6. Refer to BC 313 Painting. The following clarifications apply to this bid category:
   a. Include section 09 7200 wall coverings with BC 313 pricing
- 7. Refer to **BC 318 Standing Seam Roofing.** The following clarifications apply to this bid category:
  - a. All copper facia materials and labor are to be included in BC 318
  - b. All copper elements are to be field patinated. Provide samples of patinated copper for review and approval.
  - c. 20" wide panels are acceptable. Install so the joints are vertical. The standing seam roof and vertical facia shall be the same width.



#### **RFI LOG**

#	Subject S		Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Schedule Impact	Cost Impact
006	Dumpster Enclosure Height C	Closed F	Pumford Construction	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/30/2025	Jeremy Huntoon	02/03/2025	01/31/25		Yes (Unknown)	Yes (Unknown)
	Shayne Hohisel Sent Thu Jan 30, 2025 at 02:04 pm EST										
	Working from page 2.01										
	<b>Q:</b> Looking for T.O.W.H. (Top of Wall Height) inside the Dum	ipster End	closure.								
	I remember from the past something about leave the ba	ase layer	? 8" ?								
	Rebekah Burns (WTA Architects) Responded Fri Jan 31, 2 A: Response attached for review. RFI 006 - WTA Reply.pdf	2025 at 0	2:07 pm EST								
005	Bolt sizes shown on Drawings AB1 issued 12/27 v AB1 issued C 12/31	Closed F	Pumford Construction	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/13/2025	Jeremy Huntoon	01/16/2025	01/27/25		Yes (Unknown)	Yes (Unknown)
	Shayne Hohisel Sent Wed Jan 8, 2025 at 11:00 am EST (1). We have added 3/4" bolts cast in place for (4) colum Q: (2). The newest issued set dated 12/31 is calling for bolt				-			e on which detail	we are following?		
	(3). We could core out the old 3/4" rod and add the new	1".									
	Rebekah Burns (WTA Architects) Responded Mon Jan 27, A: Please see attached for response. RFI 5 - MAI Response.pdf	, 2025 at	: 02:59 pm EST								
004	Change to Winter conditions for Concrete strength	Closed F	Pumford Construction	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/07/2025	Jeremy Huntoon	01/08/2025	01/09/25		No	Yes (Unknown)
	Shayne Hohisel Sent Mon Jan 6, 2025 at 03:46 pm EST Q: After our weekly meeting a walk thru took place in order	r to ackno	owledge any potential is	sues and monitor wo	rk progress.					 	
				Pac	e 1 of 31						



ŧ	Subjec	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Managei	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
		It has been determined between Pumford,	Spence, and WTA that the concrete additi	ive be boosted up to the	winter conditions	standard. 3500	psi is recommen	ded.				
		The additional cost is minimal and will be p	part of the winter conditions budget that is	s set up.								
		Please confirm it is ok to proceed with the	3500 PSI concrete.									
		Rebekah Burns (WTA Architects) Responde Please see attached. 004 - Change to Concrete Winter Conditior										
		Jeremy Huntoon (Spence Brothers) Respon Attached is the mix we will be using. 033000 Cold Weather CIP Concrete Founda		rd 01.07.25.pdf								
		Jeremy Huntoon (Spence Brothers) Respor We are planning to use a 4000 # mix desig										
	A:	4000# Footings, Walls & Piers – Straight Ce 4000# Footings, Walls & Piers – Straight Ce										
		4000# Footings, Walls & Piers – Straight Ce 4000# Footings, Walls & Piers – Straight Ce										
003	Light G	Gauge Framing Anchors	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/17/2024	Sam Struble	12/24/2024	12/18/24			TBD	Yes (Unknow
	Q:	Sam Struble Sent Tue Dec 17, 2024 at 02:3 Refer to sheet S5.01 and details showing li		' bolts required for ancho	ring the walls as s	shown in the det	ails? Spacing?					
	A:	Rebekah Burns (WTA Architects) Responde Please see response attached. RFI 003.pdf	d Wed Dec 18, 2024 at 10:39 am EST									
002	Exterio	or C5 Column Anchor Bolt Layout	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/10/2024	Sam Struble	12/19/2024	02/02/25			TBD	Yes (Unknow
	Q:	Sam Struble Sent Tue Dec 10, 2024 at 03:4 For exterior columns shown as C5, please of		to be singular or three co	lumns?							
	A:	Rebekah Burns (WTA Architects) Responde This question was addressed in Bid Pack 3										
	Α:	Rebekah Burns (WTA Architects) Responde Please see attached for record and review. RFI 002 Exterior C5 Column Anchor Bolt La	d Tue Jan 21, 2025 at 02:11 pm EST									



#### Spence Brothers

#	Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
001	Storm	Drain Removal	Closed Pat's Gradall Ser	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	12/09/2024	Sam Struble	12/18/2024	12/11/24			TBD	Yes (Unknown)
	Q:	Shayne Hohisel Sent Fri Nov 22, 2024 at 10:23 am ES We have a conflict between the Storm Drain line in th Please give direction as how to proceed. L1_DEMOLITION PLAN Rev.0 markup.pdf		ew concrete footing ins	tallation.							
	<b>A</b> :	Wayne Moerdyk (WTA Architects) Responded Mon De See attachment for WTA response. RFI 001 Storm Drain Removal - WTA Reply.pdf	c 9, 2024 at 02:11 pm EST									
0.106	5 Metal I	Roofs	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	02/03/2025	Jeremy Huntoon	02/04/2025	02/03/25			TBD	TBD
	Q:	Jeremy Huntoon Sent Mon Feb 3, 2025 at 10:51 am E 1.ls there a specific manufacturer to be used for the s 2. 24" side panels isn't possible can a smaller size be 3. What shade for the Verdigris? Green or blue?	standing seam roof?									
	Α:	Wayne Moerdyk (WTA Architects) Responded Mon Fel 1. The standing seem roof is to be a copper custom m not specific manufacturer desired. 2. 20" panels are acceptable, install so that joints are standing seam roofs, the standing seam roof and ver the same width. 3. All copper elements are to be field patinated. Provi patinated copper for review and approval. Be advised that: 4. The detail 5/A7.12 has been revised per addendum RFI 106; WTA Reply.pdf	nade roof. There is vertical. For tical fascia shall be de samples of									
0.105	5 Corrido	or 103 Benches / planters	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	02/03/2025	Jeremy Huntoon	02/04/2025	02/03/25			TBD	TBD
	Q:	Jeremy Huntoon Sent Mon Feb 3, 2025 at 10:46 am E <ul> <li>What material should the Corridor 103 I</li> <li>What material should the lobby planter:</li> <li>What quartz is used for Nursing room 13</li> </ul> Bench 1.png Bench.png	Benches be? QC-1 or QC-2? s be? QC-1? QC-2? Nothing is call	ed out besides "quartz	".							



#	Subje	ect	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
	Α:	Wayne Moerdyk (WTA Architects) Responded Mon F 1. Material for corridor 103 benches is to be QC 2. 2. For Material for all the panters see pages A8.12 a 5/A8.13 use QC-1 for edge detail. 3. All countertops are to be QC-1. 0.105 Corridor 103 Benches and Planters - WTA Rep	nd A8.13. For detail									
0.104	Size of	f the exterior lettering	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	02/03/2025	Jeremy Huntoon	02/04/2025	02/03/25			TBD	TBD
	Q:	Jeremy Huntoon Sent Mon Feb 3, 2025 at 08:39 am What is the size of the exterior letting on the North i										
	Α:	Wayne Moerdyk (WTA Architects) Responded Mon F This was answered in a previous RFI. See Dimension										
0.103	SP1 Mi	irrors	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	02/02/2025	Jeremy Huntoon	02/03/2025	02/03/25			TBD	TBD
	Q:	Jeremy Huntoon Sent Sun Feb 2, 2025 at 06:58 am Are the SP1 Mirrors unframed?	EST									
	<b>A</b> :	Wayne Moerdyk (WTA Architects) Responded Mon F For SP-01 these are to be unframed.	eb 3, 2025 at 09:50 am EST									
0.102	Roofin	ig Questions	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	02/02/2025	Jeremy Huntoon	02/03/2025	02/03/25			TBD	TBD
	Q:	Jeremy Huntoon Sent Sun Feb 2, 2025 at 06:49 am Please see the attached for the roofing questions ar RFI 2 Dow Gardens 2-1-25.pdf RFI 1Dow Gardens 1-31-25.pdf										
	<b>A</b> :	Wayne Moerdyk (WTA Architects) Responded Mon F Clarification on these roof questions will be provide RFI 102 - WTA Reply.pdf										
0.101	Metal	Panel questiosn	Closed Spence Brothers	Moerdyk, Wayne (W Burns, Rebekah (W Johnston, Jordan	01/30/2025	Jeremy Huntoon	01/31/2025	02/03/25			TBD	TBD
_	Q:	Jeremy Huntoon Sent Thu Jan 30, 2025 at 01:29 pm	EST									
				Pa	ge 4 of 31							



Subj	ject		Status Responsible Contractor	Assignee	Date Initiated	I RFI Manage	er Due Date	Closed Date	Ball In Court	Location Schedule Impact	Cost Impact
	2. 3. 4. 5. 6. 7. 8. 9.	See 3/A1.10 this gate has were See Bid Category 309 Metal P See Bid Category 309 Metal P See detail 9 & 10 / A3.10 whice See 3/A7.10 it calls out plate See detail 12/A7.11 it appear See 14/A7.10, it calls out the See 13/A3.22, they call out the these angles be longer in details	P. B, 1 says 1/4" and that is what the drawin athered steel tubes and corrugated panels Panels, item #5 says "weather-tight system anels, item #9 says Weathering steel plat the bid category is responsible for these pla panels to be MT-1, but on the finish legend s the plate panel turns 90 degrees to cover bottom of the beam to be 1/4" weathering the plate tabs to be MTL-3, but MTL-3 does n ail 16?	, which bid category is in ", but the Thermax systent e and Corten metal pan te panels? Which bid ca on A3.00 MT-1 does no on A3.00 MT-1 does no steel metal panel, but <i>i</i> not exist on the finish leg	responsible for th tem is the weather els. I only see We ategory is respons t exist, only MP-11 d blocking, could 49.01 calls out thi gend on A3.00? A	is scope of work er tight part of t athering Steel sible for the 1/2 ? this be a 22ga. s material to be re the plate tab	? he wall, our syster Plates called out of " Reveal Moldings flashing in lieu of faux wood? is shown in detail	m will be just a rain: on the drawings and ?? the 1/4" plate pane 13 the same angles	in the specs, whe !? : as those shown i	n detail 16, if so should the	
	Jeremy Hun	itoon (Spence Brothers) Respon	ded Mon Feb 3, 2025 at 12:06 pm EST								
A:	• • •		nside getting this detail and also the meta lle the p late steel and reveal molding endum 2	l Interior/exterior sills p	er detail						
Α:	1. 1/4" is th 2. To be ans 3. To be ans 4. To be ans the same th 5. To be ans 6. MP-1, thi 7. thru 10.	e thickness. WM swered by Spence Brothers swered by Spence Brothers swered by Spence Brothers, wea	ed Fri Jan 31, 2025 at 04:33 pm EST athering steel and corten are								
100 Gene	eral Trades - Do	por questions	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	01/30/2025	Jeremy Huntoon	01/31/2025	02/01/25		TBD	TBD
Q:	Door 125.1 Door 130.2 Door 129A.	calls for hardware set 09 on the 1 calls for hardware set 13 on th	01:26 pm EST door schedule however it shows up requirir e door schedule but calls for set 08 in the sp e door schedule but it isn't found in the sp e door schedule but when you look at Set 1	pecifications. pecifications and set 13	is for a double do			dule.			
A:	: These item	erdyk (WTA Architects) Responde s were addressed in Addendum TA Reply.pdf	ed Fri Jan 31, 2025 at 04:27 pm EST 2. WM								
				Johnston, Jordan	01/30/2025	Jeremy					



	Subje	ect	Status Responsible Contractor	Assignee	Date Initiated	d RFI Manage	r Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
				(W Moerdyk, Wayne (W								
		Jeremy Huntoon Sent Thu Jan 30, 2025 at	01:05 pm EST									
	Q:	<ol> <li>Regarding the frosted film, c</li> <li>Regarding frames W1 &amp; W2,</li> <li>Is frosted film required for do</li> <li>Is frosted film required for do</li> </ol>	does not match spec sec 087100, which is loor schedule on A3.10 lists door 119.2 wit they call for impact resistant film, the doo oor 120.1 (similar to door 119.1)? oor 120.2 with frame W28 (similar to door 10, there are two type D4 doors shown, wi	h film, this door is in fram r schedule on A3.10 does 119.2 & frame W27)?								
	Α:	Wayne Moerdyk (WTA Architects) Respond 1. See Addendum 2. 2. Fixed in Addendum 2. 3. Film locations are per the spec, door scl 4. Yes 5. Only the door requires film. 6. Fixed in Addendum 2. RFI 99 - WTA Reply.pdf										
098	Spec s	section 095113 Questions	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	01/29/2025	Jeremy Huntoon	01/30/2025	02/01/25			TBD	TBD
	Q:	Jeremy Huntoon Sent Wed Jan 29, 2025 at Please refer to spec section 095113, 2.4 M Please refer to spec section 095113, 2.3 A	letal Suspension System, A and C. The spe		-							m There are
		details showing how this is to be construct		or a 1 mberglass mini pa	iei to be used wi		iit system. Flease		inni paneris to be i	licorporated	within the syst	eni. There are
	A:	Wayne Moerdyk (WTA Architects) Respond See attached. RFI 98 - WTA Reply.pdf	ded Fri Jan 31, 2025 at 04:18 pm EST									
				Johnston, Jordan								
097	Genera	al Trades Questions	Closed Spence Brothers	Burns, Rebekah (W Moerdyk, Wayne (W	01/28/2025	Jeremy Huntoon	01/29/2025	02/01/25			TBD	TBD
097	Genera	al Trades Questions Jeremy Huntoon Sent Tue Jan 28, 2025 at		(W Moerdyk, Wayne	01/28/2025		01/29/2025	02/01/25			TBD	TBD
097	Genera Q:	Jeremy Huntoon Sent Tue Jan 28, 2025 at		(W Moerdyk, Wayne (W nensioned anywhere. Ca	n you tell us wha	Huntoon		02/01/25			TBD	TBD



Su	bject	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
	Item 1: Refer to signage plan Exterior Dime Item 2: See ceiling plan note C1 and detail 6 RFI 97 - WTA Reply.pdf										
096 Tile	trim selection question	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	01/28/2025	Jeremy Huntoon	01/29/2025	02/03/25			TBD	TBD
Q:	Jeremy Huntoon Sent Tue Jan 28, 2025 at 00 If I understand the spec's correctly, we wou and the Quadec's are square. I would like to I've attached pictures of these trims here fo 20250128_134347.jpg 20250128_134408.jpg	ld be using Schluter Quadec's for wall t o suggest we change the Quadec's to R	ondec's.				oor. These two tri	n pieces are not co	mpatible. Ti	he Dilex out coi	mers are rou
J	Wayne Moerdyk (WTA Architects) Responde Use the quadec. RFI 96 - WTA Reply.pdf	ed Mon Feb 3, 2025 at 12:47 pm EST									
95 Wa	ll type 5.3 questions	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	01/28/2025	Jeremy Huntoon	01/29/2025	02/01/25			TBD	TBD
Q:	Jeremy Huntoon Sent Tue Jan 28, 2025 at 06 Please see attached Dow Gardens RFI#4.pdf A0.01-PROJECT-INFORMATION-Rev.5.pdf A2.12-FIRST-FLOOR-NOTATION-PLAN-Rev.3. A2.41-PLAN-DETAILS-Rev.3.pdf A7.12-SECTION-DETAILS-Rev.1.pdf										
ļ	Wayne Moerdyk (WTA Architects) Responde Refer to Addendum 2. RFI 95 - WTA Reply.pdf	ed Fri Jan 31, 2025 at 04:00 pm EST									
94 Ele	ctrical questions	Open Spence Brothers	Moerdyk, Wayne (W Burns, Rebekah (W Johnston, Jordan	01/28/2025	Jeremy Huntoon	01/29/2025		Moerdyk, Wayne (W Burns, Rebekał (W Johnston, Jordan	1	TBD	TBD
	Jeremy Huntoon Sent Tue Jan 28, 2025 at 05 RFI #1: HH Boxes- Details needed size Part number										
Q:											



Subje	ect	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
	Duct Bank- Where is this to be located and	I who is responsible to carry the costs on the	e install.								
	RFI #3: Generator- Spec sheet/ Model number/ Bra	and Recommended.									
	RFI #4: Is Div. 26 supposed to carry all security ca	meras, door controls and wiring?									
	IF YES Security Company- Do they have a preferr	ed vendor to use for costs?									
	RFI #5: Is Div.26 supposed to carry all low volt wir	ing/ WAP, POS equipment labor and installa	tion?								
	IF YES Do they have a preferred Vendor to use fo	r costs?									
.093 Wall t	ype exhibit 116	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	01/28/2025	Jeremy Huntoon	01/29/2025	02/01/25			TBD	TBD
Q:	Jeremy Huntoon Sent Tue Jan 28, 2025 at ( Please see attached. Dow Gardens RFI#5.pdf A2.41-PLAN-DETAILS-Rev.3.pdf A2.12-FIRST-FLOOR-NOTATION-PLAN-Rev.										
Α:	Wayne Moerdyk (WTA Architects) Respond See attached. RFI 93 - WTA Reply.pdf	led Fri Jan 31, 2025 at 03:56 pm EST									
092 BC 30	)1 Questions	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	01/28/2025	Jeremy Huntoon	01/29/2025	02/03/25			TBD	TBD
Q:	Jeremy Huntoon Sent Tue Jan 28, 2025 at ( Please see attached questions. Dow Gardens BP3 Fisher RFIs_01.28.25.pc										
А:	Wayne Moerdyk (WTA Architects) Respond See attached for responses from WTA, BPA RFI 92 - WTA, PBA, Rowe; Reply.pdf										
Α:	Jeremy Huntoon (Spence Brothers) Respon WTA please answer questions 3, 8, 12, 15,										
091 Track	and Tape Lighting questions	Open Spence Brothers	Moerdyk, Wayne (W Burns, Rebekah	01/28/2025	Jeremy Huntoon	01/29/2025		Moerdyk, Wayne (W	1	TBD	TBD



	Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
				(W Johnston, Jordan					(W Johnston, Jordan			
	Q:	Jeremy Huntoon Sent Tue Jan 28, 2025 at 05:41 pm E Please see the attached RFI. RFI, Track & Tape Lighting, Dow Gardens Welcome Ce										
)90	Exteri	or Dimensional Letters	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	01/28/2025	Jeremy Huntoon	01/29/2025	02/01/25			No	No
	Q:	Jeremy Huntoon Sent Tue Jan 28, 2025 at 01:24 pm E Please confirm the sizes for these letters. We are not		he elevations, specific	cations, or section	5.						
	A:	Wayne Moerdyk (WTA Architects) Responded Fri Jan 3 See attached. RFI 90 - WTA Reply.pdf	81, 2025 at 03:40 pm EST									
)89		ry Detail Questions	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	01/28/2025	Jeremy Huntoon	01/29/2025	02/01/25			TBD	TBD
		Jeremy Huntoon Sent Tue Jan 28, 2025 at 12:25 pm E 1. At the dumpster location the drawings I with full bed veneer on the outside of th	nave conflicting information. 6/A1 we wall and thin veneer on the insic	le. On A2.12 where the								
	Q:	the wall. Please clarify if thin veneer sto 2. The interior pattern for the stone starts with a 1'-0 of the exterior stone pattern would be very helpful.			nown as two 7 5/8'	' tall pieces (2/A	7.10). The specif	ications call out th	e ST-3 stones at a	unit height d	of 7 5/8". I think	c maybe a sk
	A:	Wayne Moerdyk (WTA Architects) Responded Fri Jan 3 See attached. RFI 89 - WTA Reply.pdf	31, 2025 at 03:29 pm EST									
		ormed Framing question	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/28/2025	Jeremy Huntoon	01/29/2025	01/28/25			TBD	TBD
)88												
088	Q:	Jeremy Huntoon Sent Tue Jan 28, 2025 at 11:42 am E See attached specification. Can the CFMF be screwe doc00539520250128113210.pdf										



RF 087 Cafe Terra	FI 88.pdf		Johnston, Jordan							
087 Cafe Terra	ace Area									
		Closed Spence Brothers	Moerdyk, Wayne (W Burns, Rebekah (W	01/28/2025	Jeremy Huntoon	01/29/2025	01/29/25		TBD	TBD
Q: Sh	remy Huntoon Sent Tue Jan 28, 2025 at 09:54 neet s2.04 is missing from the title sheet. Is th ow Gardens RFI#3.pdf 2.04-CAFE-TERRACE-FOUNDATION-AND-ROOF	is because it is part of bid pack 4?								
A: Ple	ebekah Burns (WTA Architects) Responded We ease see attached response. Fl 87 - WTA Reply.pdf	d Jan 29, 2025 at 05:22 pm EST								
.086 Food Servi	vice	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	01/28/2025	Jeremy Huntoon	01/29/2025	02/01/25		TBD	TBD
Q:	<ol> <li>The 3 compartment sink ITEM#C to fit under this unit at any locatio</li> <li>Item G No BIN LISTED for the ice n</li> <li>Item D Work table list one on draw</li> <li>Item J Hand Sink is listed as 7-PS-2</li> <li>Item Q Disposer. Please confirm V</li> <li>Substitution Request ATTACHED for</li> </ol>	n naker. ing and identifying D is only one but i 0. This is a (2) hole faucet. Did you w DLTAGE. I don't believe this unit is ava	t looks like it should be ( ant a 7-PS-71?? I don't s	(2) please confirm see that a EC 130:	L TMV is available	e from T&S. There	e is a EC 3101 TMV			
14	467_001.pdf									
A: Ite	ayne Moerdyk (WTA Architects) Responded Fr ems 1 through 5 are addressed in addendum 2 em 6, substitution request. Request is Approve Fl 86 - WTA Reply.pdf	2.								
085 Roofing de	etails	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/27/2025	Jeremy Huntoon	01/29/2025	01/28/25		TBD	TBD
le	remy Huntoon Sent Mon Jan 27, 2025 at 03:18 74113 standing seam metal roof panels	9 pm EST								
	2.1,B,1,c verdigris Which shade of green or blue 2,1,B,3 24" o.c. , is a 20" panel width a									



: 	Subjeo	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
		2.2,C, detail 15/A7.11 On the sloped rake fascia, are the panel j	oints vertical or perpendicular to the roof slo	ope?								
		Detail 5/A7.12 With the amount of rain/snow & ice at thi	s valley, is this detail correct ?									
	A:	Rebekah Burns (WTA Architects) Respond Please see attached response. RFI 85 - WTA Reply.pdf	ded Tue Jan 28, 2025 at 05:08 pm EST									
084	Scope	clarification BC 308	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/27/2025	Jeremy Huntoon	01/29/2025	01/28/25			No	No
	Q:	Jeremy Huntoon Sent Mon Jan 27, 2025 a See the attached RFI clarification Dow Gardens RFI#2.doc	t 11:22 am EST									
	<b>A</b> :	Jeremy Huntoon (Spence Brothers) Resp BC 308 will be responsible for the Install	onded Mon Jan 27, 2025 at 11:23 am EST of R-30 insulation and the 1/2" plywood, and	water shield at all slope	d roof locations w	here metal roof p	panels will be ins	talled.				
	<b>A</b> :	Rebekah Burns (WTA Architects) Respond Please see attached response RFI 84 - WTA Reply.pdf	ded Tue Jan 28, 2025 at 05:07 pm EST									
083	Food Se	ervice Equipment	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/24/2025	Jeremy Huntoon	01/24/2025	01/28/25			Yes (Unknown)	Yes (Unknow
		Jeremy Huntoon Sent Fri Jan 24, 2025 at I noticed some discrepancies between th	03:49 pm EST e spec and kitchen equipment schedule on	plan A2.21. See below q	uestions.							
	Q:	<ol> <li>Item D, E, &amp; F are listed as I</li> <li>Item U is listed as custom n would be the most cost effective</li> </ol>	abricated in the spec but by Advance Tabco of being by Advance Tabco in the spec but custo hillwork shelving per details on the drawing. ctive to have millwork provide these, as the I Shelving by Metro in the spec but custom S	om fabricated on equipn Per spec section 064023 finishes are the same as	nent schedule per 3, millwork items a 5 the counters bei	plan A2.21. Can are to be by this on ng provided by n	you confirm if th division including nillwork. Can you	nese are to be cus o miscellaneous it o confirm these wi	tom or by Advance ems like the floatir Il be provided and	Tabco? ng shelves sh installed by t	he millwork conti	
	<b>A</b> :	Rebekah Burns (WTA Architects) Respond Please see attached response. RFI 83 - WTA Reply.pdf	ded Tue Jan 28, 2025 at 05:08 pm EST									
				Johnston, Jordan Moerdyk, Wayne	01/24/2025	Jeremy		01/28/25			Yes (Unknown)	Yes



#	Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
	Q:	Jeremy Huntoon Sent Fri Jan 24, 2025 at 03:24 pm ES See the attached for the masonry questions. Dow Gardens RFI #1.pdf Dow Gardens RFI#2.pdf Dow Gardens RFI #2 Drawing Markup.pdf e1b17805-867b-41b8-bda2-78ac602dd8f8.rtf DATA-04431316-US-TCAMVA-TCU-24-0613.pdf	т									
	A:	Rebekah Burns (WTA Architects) Responded Tue Jan 2 Please see attached response. RFI 82 - WTA Reply.pdf	28, 2025 at 05:08 pm EST									
0.081	Buildir	ng Sections	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/23/2025	Jeremy Huntoon	01/24/2025	01/28/25			Yes (Unknown)	Yes (Unknown)
	Q:	Jeremy Huntoon Sent Thu Jan 23, 2025 at 03:26 pm E Please refer to building sections 2, 4 $\&$ 6/A5.11 and p		ow the exterior walls are	to be constructed	l, specifically at t	the top of wall. A	re we to assume 6	/A7.10 at these lo	cations as w	ell?	
	A:	Rebekah Burns (WTA Architects) Responded Tue Jan 2 Please see attached response. RFI 81 - WTA Reply.pdf	28, 2025 at 05:09 pm EST									
0.080	Inverte	er Specification	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/23/2025	Jeremy Huntoon	01/24/2025	01/28/25			No	No
	Q:	Jeremy Huntoon Sent Thu Jan 23, 2025 at 02:49 pm E On drawing E5.01 it tells us to provide a 2.8KVA inver		drawing E6.01 it tells us	s to provide a 5KV	A inverter with (2	12) 20A/1P break	ers. Please confirn	n which one is corr	ect?		
	A:	Rebekah Burns (WTA Architects) Responded Mon Jan Response attached. Pre-BID RFI 80 - Inverter Specification.pdf	27, 2025 at 05:10 pm EST									
0.079	CT-1B	tile walls	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/23/2025	Jeremy Huntoon	01/24/2025	01/27/25			No	No
	Q:	Jeremy Huntoon Sent Thu Jan 23, 2025 at 02:47 pm E Please refer to sheet A3.01 and provide a detail to cla		alls. Are these full heigh	t tile walls?							
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Mon Jan Refer to Wall section details for extents of tile as indic										
0.078	Z Girts	s with weeps	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne	01/23/2025	Jeremy Huntoon	01/24/2025	01/28/25			No	No



# 9	Subje	ct		Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
					(W Burns, Rebekah (W								
	Q:	Jeremy Huntoon Sent Thu Jan 23, 2025 at 02:45 pm ES Please refer to detail 9/A7.12. Who is responsible for t		s w/ weeps"? Please pro	vide a spec for this m	aterial.							
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Tue Jan 24 Please see attached response. RFI 78 - WTA Reply.pdf	8, 2025 at	05:09 pm EST									
0.077 (	Сорреі	r Facia Detail - prebid	Closed S	Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/23/2025	Jeremy Huntoon	01/24/2025	01/28/25			No	Yes (Unknown)
		Jeremy Huntoon Sent Thu Jan 23, 2025 at 11:34 am ES Facia questions:	ST										
	Q:	<ul> <li>- Is the material a standing seam, flush, or flat panel</li> <li>- Do the seams for the facia run vertical to match the s</li> <li>20250123092709364.pdf</li> </ul>	siding sear	ns or do they run perpe	ndicular to the roof se	ams? I think the s	eams running ve	ertical like the sidi	ng seams looks b	est.			
	Α:	Rebekah Burns (WTA Architects) Responded Tue Jan 28 Please see attached response. RFI 77 - WTA Reply.pdf	8, 2025 at	05:09 pm EST									
0.076	llumin	ated mirrors - prebid	Closed S	Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	01/23/2025	Jeremy Huntoon	01/24/2025	01/29/25			No	No
		Jeremy Huntoon Sent Thu Jan 23, 2025 at 11:25 am ES	ST										
	Q:	<ul> <li>There are two types of illuminated mirror confirm mirror sizes from the architectur tradewise is to provide and who is to inst</li> </ul>	ral sections	s/details. On these archi									
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Wed Jan 2 Please see attached. 76 - WTA Reply.pdf	29, 2025 at	t 05:21 pm EST									
0.075 E	3P #3 ·	- E5.02	Closed S	Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/27/2024	Sam Struble	01/03/2025	02/03/25			TBD	TBD
-	Q:	Sam Struble Sent Fri Dec 27, 2024 at 03:20 pm EST In the write-up for Addendum #1, it calls out E5.02 as	being reiss	sued but there is no E5.0	02 drawing in the add	endum.							



	ect	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
	Please reissue this drawing if needed.										
A:	Rebekah Burns (WTA Architects) Responded This question was addressed in Bid Pack 3 do										
0.074 BP#3	3 - Ticket Desk ISO View	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/18/2024	Sam Struble	12/27/2024	02/03/25			TBD	TBD
Q:	Sam Struble Sent Wed Dec 18, 2024 at 08:44 On sheet A8.10 there is what appears to be a		ched snippet), but this	window is not shov	n on the archite	ctural plans. Ple	ase advise.				
Α:	Rebekah Burns (WTA Architects) Responded This question was addressed in Bid Pack 3 do										
0.073 BP#3	3 - Ticket Desk Tile	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/18/2024	Sam Struble	12/27/2024	02/03/25			TBD	TBD
Q:	Sam Struble Sent Wed Dec 18, 2024 at 08:4 On sheet A3.01 the Ticket Desk calls for WFT		to be installed in this a	rea?							
A:	Rebekah Burns (WTA Architects) Responded This question was addressed in Bid Pack 3 do										
			Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/18/2024	Sam Struble	12/27/2024	02/03/25			TBD	TBD
	This question was addressed in Bid Pack 3 do	Closed Spence Brothers	Moerdyk, Wayne (W Burns, Rebekah (W					ill walls other than			TBD
0.072 BP #3	This question was addressed in Bid Pack 3 do 3 - Tile in Men's/Women's Restroom Sam Struble Sent Wed Dec 18, 2024 at 08:43	Closed Spence Brothers 3 am EST om 112, it calls for WFT-2 on all walls bes Tue Jan 21, 2025 at 08:27 am EST	Moerdyk, Wayne (W Burns, Rebekah (W					Il walls other than			TBD
0.072 BP #3	This question was addressed in Bid Pack 3 do 3 - Tile in Men's/Women's Restroom Sam Struble Sent Wed Dec 18, 2024 at 08:43 In Women's Restroom 111 and Men's Restrood Rebekah Burns (WTA Architects) Responded This question was addressed in Bid Pack 3 do	Closed Spence Brothers 3 am EST om 112, it calls for WFT-2 on all walls bes Tue Jan 21, 2025 at 08:27 am EST	Moerdyk, Wayne (W Burns, Rebekah (W			intended to be f		Il walls other than	the vanity w		TBD
0.072 BP #3	This question was addressed in Bid Pack 3 do 3 - Tile in Men's/Women's Restroom Sam Struble Sent Wed Dec 18, 2024 at 08:43 In Women's Restroom 111 and Men's Restrood Rebekah Burns (WTA Architects) Responded This question was addressed in Bid Pack 3 do	Closed Spence Brothers Closed Spence Brothers am EST om 112, it calls for WFT-2 on all walls bes Tue Jan 21, 2025 at 08:27 am EST ocuments dated 1/9/2025 Closed Spence Brothers 7 am EST	Moerdyk, Wayne (W Burns, Rebekah (W ides the vanity wall whi ides	ch receives WFT-3.	Is the WFT-2 tile	intended to be f	loor to ceiling on a	ill walls other than	the vanity w	rall?	



oject	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
#3 - Architectural Woodwork	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/13/2024	Sam Struble	12/20/2024	02/03/25			TBD	TBD
	•	l inserts used in the Gift S	Shop.							
#3 - LED Video Wall	Closed Spence Brothers	Moerdyk, Wayne (W Johnston, Jordan Burns, Rebekah (W	12/13/2024	Sam Struble	12/20/2024	02/03/25			TBD	TBD
Drawings show LED Video Wall (LVW) (I	D #EQ-04) to be furnished and installed by th			lid Category #30	07 (10-1463), is t	he Electronic Mess	age Signage (EMS	), but no refe	erence for the I	.VW. The
#3 - BC 307 Item #38	Closed Spence Brothers	Struble, Sam (Spe	12/13/2024	Sam Struble	12/20/2024	12/13/24			TBD	TBD
		these benches and indic	ate where they c	an be found in th	ne drawings.					
		d substrate.								
#3 - SEG Banners	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/13/2024	Sam Struble	12/20/2024	02/03/25			TBD	TBD
Sam Struble Sent Fri Dec 13, 2024 at 09 The interior elevations and Furniture/Ec	9:24 am EST quipment Plan (A2.31) show SEG Banners (SP	02) that are FBO and ins	talled by contract	or, but there are	e no reference in	the work scopes.				
The interior elevations and Furniture/Ec	quipment Plan (A2.31) show SEG Banners (SP			or, but there are	e no reference in t	the work scopes.				
	<ul> <li>Rebekah Burns (WTA Architects) Respo This question was addressed in Bid Pac</li> <li>F3 - Architectural Woodwork</li> <li>Sam Struble Sent Fri Dec 13, 2024 at 1: Please provide additional details or spe Rebekah Burns (WTA Architects) Respo This question was addressed in Bid Pac</li> <li>F3 - LED Video Wall</li> <li>Sam Struble Sent Fri Dec 13, 2024 at 00 Drawings show LED Video Wall (LVW) (1 dimensions shown for the LVW are 68") Rebekah Burns (WTA Architects) Respo This question was addressed in Bid Pac</li> <li>F3 - Rebekah Burns (WTA Architects) Respo This question was addressed in Bid Pac</li> <li>Rebekah Burns (WTA Architects) Respo This question was addressed in Bid Pac</li> <li>F3 - BC 307 Item #38</li> <li>Sam Struble Sent Fri Dec 13, 2024 at 00 Item #38 on the write-up for BC 307 sa Sam Struble (Spence Brothers) Respon The intention of this is to capture the q</li> </ul>	Contractor         Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am EST         This question was addressed in Bid Pack 3 documents dated 1/9/2025         43 - Architectural Woodwork       Closed Spence Brothers         Sam Struble Sent Fri Dec 13, 2024 at 12:04 pm EST         Please provide additional details or specification for the 1/4" removable acrylic pane         Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am EST         This question was addressed in Bid Pack 3 documents dated 1/9/2025         #3 - LED Video Wall       Closed Spence Brothers         *3 - BC 307 Item #38       Seam Struble Sent Fri Dec 13, 2024 at 09:41 am EST         This question was addressed in Bid Pack 3 documents dated 1/9/2025       Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:26 am EST         This question was addressed in Bid Pack 3 documents dated 1/9/2025       Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:26 am EST      <	Contractor           Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025         Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W Barns, Rebekah (W           3 - Architectural Woodwork         Closed Spence Brothers         Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W           5 am Struble Sent Fri Dec 13, 2024 at 12:04 pm EST Please provide additional details or specification for the 1/4" removable acrylic panel inserts used in the Gift S Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025         Moerdyk, Wayne (W Johnston, Jordan Burns, Rebekah (W           3 - LED Video Wall         Closed Spence Brothers         Moerdyk, Wayne (W Johnston, Jordan Burns, Rebekah (W           3 - LED Video Wall         Closed Spence Brothers         Moerdyk, Wayne (W Johnston, Jordan Burns, Rebekah (W           3 - LED Video Wall         Closed Spence Brothers         Som Struble Sent Fri Dec 13, 2024 at 09:41 am EST Drawings show LED Video Wall (LVW) (ID #EQ-04) to be furnished and installed by the contractor. Included in dimensions shown for the LVW are 68"x 89" and dimensions for the EMS (per specs) are 70"x 96". Are these to Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:26 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025           43 - BC 307 Item #38         Closed Spence Brothers         Struble, Sam (Spe           5am Struble Sent Fri Dec 13, 2024 at 09:27 am EST The intention of this is to	Contractor         Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       Johnston, Jordan Moerdyk, Wayne (W       12/13/2024         *3 - Architectural Woodwork       Closed       Spence Brothers       Johnston, Jordan Moerdyk, Wayne (W       12/13/2024         Sam Struble Sent Fri Dec 13, 2024 at 12:04 pm EST Please provide additional details or specification for the 1/4" removable acrylic panel inserts used in the Gift Shop.       Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       Moerdyk, Wayne (W Johnston, Jordan Johnston, Jordan Johnston, Jordan Moerdyk, Wayne (W       12/13/2024 Burns, Rebekah (W         3 - LED Video Wall       Closed       Spence Brothers       Moerdyk, Wayne (W Johnston, Jordan Johnston, Jordan Moerdyk, Wayne (W       12/13/2024         3 - LED Video Wall       Closed Spence Brothers       Moerdyk, Wayne (W Johnston, Jordan Johnston, Jordan Moerdyk       12/13/2024         3 - LED Video Wall       Closed Spence Brothers       Moerdyk, Yage (W       12/13/2024         3 - LED Video Wall       Closed Spence Brothers       Moerdyk, Yage (W       12/13/2024         3 - BEC 307 Item #38       Closed Spence Brothers       Struble, Sam (Spe       12/13/2024         3 - BC 307 Item #38       Closed Spence Brothers       Struble,	Contractor       Contractor         Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       Johnston, Jordan … Moerdyk, Wayne (W       12/13/2024       Sam Struble         Sam Struble Sent Fri Dec 13, 2024 at 12:04 pm EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       Moerdyk, Wayne (W       12/13/2024       Sam Struble         Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       Moerdyk, Wayne (W       12/13/2024       Sam Struble         8- LED Video Wall       Closed Spence Brothers       Moerdyk, Wayne (W       Johnston, Jordan … Johnston, Jordan … Johnston, Jordan … Johnston, Jordan … (W       12/13/2024       Sam Struble         Sam Struble Sent Fri Dec 13, 2024 at 09:41 am EST Drawings show for the LWV are 68* AB' and dimensions for the EMS (per specs) are 70° x 96°. Are these the same thing?       Sam Struble         Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:26 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       Struble, Sam Struble Sent Fri Dec 13, 2024 at 09:41 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       Struble, Sam Struble Sent Fri Dec 13, 2024 at 09:27 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       Struble, Sam Struble Sent Fri Dec 13, 2024 at 09:27 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       Struble, Sam Struble Sent Fri Dec 13, 2024 at 09:27 am EST This question	Contractor       Contractor         Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       Johnston, Jordan Moerdyk, Wayne (W       Johnston, Jordan Moerdyk, Wayne (W         3: Architectural Woodwork       Closed Spence Brothers       Johnston, Jordan Moerdyk, Wayne (W       12/13/2024       Sam Struble       12/20/2024         3: Architectural Woodwork       Closed Spence Brothers       Johnston, Jordan Moerdyk, Wayne (W       12/13/2024       Sam Struble       12/20/2024         8: Architectural Woodwork       Closed Spence Brothers       Johnston, Jordan Moerdyk, Wayne (W       12/13/2024       Sam Struble       12/20/2024         8: Architectural Woodwork       Closed Spence Brothers       Johnston, Jordan Johnston, Jordan Burns, Rebekah       12/13/2024       Sam Struble       12/20/2024         8: LED Video Wall       Closed Spence Brothers       Johnston, Jordan Johnston, Jordan W       12/13/2024       Sam Struble       12/20/2024         8: LED Video Wall       Closed Spence Brothers       Johnston Jordan W       12/13/2024       Sam Struble       12/20/2024         8: LED Video Wall       Closed Spence Brothers       Johnston Jordan W       12/13/2024       Sam Struble       12/20/2024         8: Sam Struble Sent Fri Dec 13, 2024 at 09:41 am EST Th	This question was addressed in Bid Pack 3 documents dated 1/9/2025       Johnston. Jordan (Moerdyk, Wayne (W       Jul 1/3/2024       Sam Struble       12/20/2024       02/03/25         3a Architectural Woodwork       Closed       Spence Brothers       Juln stor. Jordan (W       12/13/2024       Sam Struble       12/20/2024       02/03/25         3a Architectural Woodwork       Closed       Spence Brothers       Juln stor. Jordan (W       12/13/2024       Sam Struble       12/20/2024       02/03/25         8am Struble Sent Fri Dec 13, 2024 at 12:04 pm EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       Wencytyk, Wayne (W       12/13/2024       Sam Struble       12/20/2024       02/03/25         8am Struble Sent Fri Dec 13, 2024 at 09:41 am EST Drawing Show IED Video Wall       Closed       Spence Brothers       Wencytyk, Wayne (W       12/13/2024       Sam Struble       12/20/2024       02/03/25         8am Struble Sent Fri Dec 13, 2024 at 09:41 am EST Drawing Show IED Video Wall       Closed Spence Brothers       Wencytyk, Wayne (W       12/13/2024       Sam Struble       12/20/2024       02/03/25         9a Bothub Sonow IED Video Wall (DWU/UD 48/E-Oval) to turnished and installed by the contractor. Included in the write-up for Bid Category #307 (10-1463), is the Electronic Mess dimensions show for the LW are 68''x 89'' and dimensions for the EMS (per specs) are 70''x 96''. Are th	Contractor         Image: Contractor         Image: Contractor           Rebekah Burns (WTA Architects) Responded Tue jan 21, 2023 at 08:27 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025         Johnston, Jordan Meerdyk, Wayne (W Burns, Rebekah (W         Sam Struble         12/20/2024         02/03/25           32 Architectural Woodwork         Closed         Spence Brothers         Johnston, Jordan Meerdyk, Wayne (W         12/13/2024         Sam Struble         12/20/2024         02/03/25           32 Architectural Woodwork         Closed         Spence Brothers         Johnston, Jordan Meerdyk, Wayne (W         12/13/2024         Sam Struble         12/20/2024         02/03/25           Pleace provide additional details or specification for the 1/4" removable acrylic panel inserts used in the Gitt Shop.         Sam Struble         12/20/2024         02/03/25           32 LED Video Wall         Closed         Spence Brothers         Meerdyk, Wayne (W Johnston, Jordan Johnston, Jordan Johnston, Jordan Johnston, Jordan Johnston, Jordan Johnston for the UWare 68* 89* and dimeesings for the Karb (per specia) ar 70* 96*. Are these the same thing?         12/20/2024         02/03/25           32 LED Video Wall         Closed Spence Brothers         Struble, Sam (W         12/13/2024         Sam Struble         12/20/2024         02/03/25           33 are Struble Sent Fri Dec 13, 2024 at 09:41 am EST This question was addressed in Bid Pac	Contractor         Contractor         Contractor           Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08.27 am IST This question was addressed In Bld Pack 3 documents dated 119/2025         Sam Struble Sent Strube Sent Pack 8 documents dated 119/2025         Sam Strube Sent Fir Dec 13, 2024 at 02.04 pm EST Please provide additional distalis or specification for the 1/4" removable acrylic panel Inserts used in the Gift Shop.         Sam Strube Sent Fir Dec 13, 2024 at 02.04 pm EST Please provide additional distalis or specification for the 1/4" removable acrylic panel Inserts used in the Gift Shop.         Sam Strube Sent Fir Dec 13, 2024 at 09.41 pm EST Please provide additional distalies or specification for the 1/4" removable acrylic panel Inserts used in the Gift Shop.         Sam Strube Sent Fir Dec 13, 2024 at 09.41 pm EST Please provide additional distalies or specification for the 1/4" removable acrylic panel Inserts used in the Gift Shop.         Sam Strube Sent Fir Dec 13, 2024 at 09.41 pm EST Please provide additional distalies or specification for the 1/4" removable acrylic panel Inserts used in the Gift Shop.         Sam Strube Sent Fir Dec 13, 2024 at 09.41 pm EST Diverting Show Dec Med Mall (UWP) (10 #EO 401 to be furnished and installed by the contractor. Included in the write- up for Bid Category #307 (10-1463). Is the Electronic Message Signage (EMS), but no ref Diverting Show Dec Med Mall (UWP) (10 #EO 401 to Jan 21, 2025 at 08.25 am EST           Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08.25 m EST         Strube Sent Fir Dec 13, 2024 at 09.41 pm EST         Strube Sent Fir Dec 13, 2024 at 09.41 pm EST         Strube Sent Fir Dec 13, 2024 at 09.41 pm EST           Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08.25 m EST         <	Contractor(mpactRebeksh Burns (WTA Architects) Responded Tue Jan 21, 2023 at 08:27 am ESTThis question was addressed in Bid PAK 3 documentsIs Architectural WoodworkClosedClosedSpence BrothersIs Architectural WoodworkClosedSom Struble Soft Fri Dec 13, 2024 at 12:04 pm ESTPreservice additional details or specification for the 14/4" emovable acrylic ganel inserts used in the Girt Shop.Rebeksh Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am ESTThis question was addressed in Bid PAK 3 documentsBebksh Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am ESTThis question was addressed in Bid PAK 3 documentsBebksh Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am ESTThis question was addressed in Bid PAK 3 documentsBebksh Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am ESTThis question was addressed in Bid PAK 3 documentsBebksh Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:27 am ESTThis question was addressed in Bid PAK 3 documents detail 19/2025Bebksh Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:26 am ESTThis question was addressed in Bid PAK 3 documents detail 19/2025Bebksh Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:26 am ESTThis question was addressed in Bid PAK 3 documents detail 19/2025Bebksh Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:26 am ESTThis question was addressed in Bid PAK 3 documents detail 19/2025Bebksh Burns (WTA Architects) Responded Tue Jan 21, 2025 at 08:26 am ESTThis question was address



#	Subje	ct	Status Re Co	sponsible ntractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Schedule Impact	Cost Impact
	A:	Sam Struble (Spence Brothers) Responded Fri Dec 1 BC 307 General Trades responsible for installation.	3, 2024 at 09:2	24 am EST								
0.66	BP #3	- WFT-5	Closed Spe	ence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/09/2024	Sam Struble	12/18/2024	02/03/25		TBD	TBD
	Q:	Sam Struble Sent Mon Dec 9, 2024 at 11:02 am EST WFT-5 shows ST-1 above an ST-2. ST-2 is a thin vene	er where ST-1 is	s a full bed product. F	Please advise if this is	correct.						
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Tue Jan This question was addressed in Bid Pack 3 documen										
0.65	BP #3	- Top of Masonry Heights	Closed Spe	ence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/09/2024	Sam Struble	12/18/2024	02/03/25		TBD	TBD
	Q:	Sam Struble Sent Mon Dec 9, 2024 at 10:58 am EST Please provide top of masonry heights on exterior el	evations.									
	A:	Rebekah Burns (WTA Architects) Responded Tue Jan This question was addressed in Bid Pack 3 documen										
0.64	BP #3	- Details	Closed Spe	ence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/09/2024	Sam Struble	12/18/2024	02/03/25		TBD	TBD
	Q:	Sam Struble Sent Mon Dec 9, 2024 at 10:56 am EST On A5.01 and A5.02 there are sections bubbled whe	re sections/ele	vations are to be blow	wn up but there is no e	elevation or sectio	n called out. Plea	ase advise.				
	A:	Rebekah Burns (WTA Architects) Responded Tue Jan This question was addressed in Bid Pack 3 documen										
0.63	BP #3	- Weather Barrier	Closed Spe	ence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/09/2024	Sam Struble	12/18/2024	02/03/25		TBD	TBD
	Q:	Sam Struble Sent Mon Dec 9, 2024 at 10:53 am EST Details show a weather barrier on the outside of the	Thermax wall s	system. Please advise	e where weather barri	er is to be installe	d.					
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Tue Jan This question was addressed in Bid Pack 3 documen										
0.62	BP #3	- AMC-1	Closed Spe	ence Brothers	Johnston, Jordan Moerdyk, Wayne (W	12/09/2024	Sam Struble	12/18/2024	02/03/25		TBD	TBD
					Pag	e 16 of 31						



¥ 	Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court		Schedule Impact	Cost Impact
				Burns, Rebekah (W								
	Q:	Sam Struble Sent Mon Dec 9, 2024 at 10:51 am EST Please provide additional details for the metal ceilir										
	A:	Rebekah Burns (WTA Architects) Responded Tue Jar This question was addressed in Bid Pack 3 documer										
.61	BP #3	- Tile Backer Board	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/09/2024	Sam Struble	12/18/2024	02/03/25			TBD	TBD
	Q:	Sam Struble Sent Mon Dec 9, 2024 at 10:48 am EST Please specify a tile backer board product to be use										
	А:	Rebekah Burns (WTA Architects) Responded Tue Jar This question was addressed in Bid Pack 3 documer										
).60	BP #3	- Acoustical Gyp Board	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/09/2024	Sam Struble	12/18/2024	02/03/25			TBD	TBD
	Q:	Sam Struble Sent Mon Dec 9, 2024 at 10:47 am EST Please provide further detail showing the extent of										
	Α:	Rebekah Burns (WTA Architects) Responded Tue Jar This question was addressed in Bid Pack 3 documer										
.59	BP #3	- Dumpster/Chiller Enclosure	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/09/2024	Sam Struble	12/18/2024	02/03/25			TBD	TBD
		Sam Struble Sent Mon Dec 9, 2024 at 09:34 am EST	г									
	Q:	<ul> <li>Is there a stone cap on the top of this</li> <li>Wall type 5.2 shows only "11-5/8 CMU</li> <li>Wall Type 5.1 shows 8" CMU w/stone v</li> <li>Masonry spec section for exposed CM</li> </ul>	I." Should a split-faced or smooth f veneer. Is the exposed CMU painted	d or grey here? Its recor	nmended to use a	smooth face w/l	WR on the expos	ed exterior. Please	e advise.	ince this is or	n the exterior.	Please advis
	A:	Rebekah Burns (WTA Architects) Responded Tue Jar This question was addressed in Bid Pack 3 documer										



#	Subje	ct	Status Res Con	ponsible tractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
					(W								
	Q:	Sam Struble Sent Mon Dec 9, 2024 at 09:18 am EST Please provide a spec and requirements on these grou	und boxes.										
	A:	Rebekah Burns (WTA Architects) Responded Tue Jan 2 This question was addressed in Bid Pack 3 documents											
0.57	BP #3	- Ductbank	Closed Sper	nce Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/09/2024	Sam Struble	12/18/2024	02/03/25			TBD	TBD
	Q:	Sam Struble Sent Mon Dec 9, 2024 at 09:17 am EST Why is there a duct bank detail on sheet E7.03? Is the	re a duct bank	that is to be installed	d on this project?								
	A:	Rebekah Burns (WTA Architects) Responded Tue Jan 2 This question was addressed in Bid Pack 3 documents											
0.56	BP #3	- Low Voltage	Closed Sper	nce Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	12/09/2024	Sam Struble	12/18/2024	02/03/25			TBD	TBD
	Q: A:	Sam Struble Sent Mon Dec 9, 2024 at 09:14 am EST What location does all of the data run to? Who is to provide the low voltage patch panel? Who is to provide the WAP? Rebekah Burns (WTA Architects) Responded Tue Jan 2 This question was addressed in Bid Pack 3 documents											
0.55	BP #3	- Knight Watch	Closed Sper	nce Brothers	Moerdyk, Wayne (W Johnston, Jordan Burns, Rebekah (W	12/04/2024	Sam Struble	12/20/2024	02/03/25			TBD	TBD
	Q:	Sam Struble Sent Wed Dec 4, 2024 at 08:41 am EST Is Knight Watch an acceptable temperature controls c	contractor?										
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Tue Jan 2 This question was addressed in Bid Pack 3 documents											
0.54	BP #3	- Trench Drains	Closed Sper	nce Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/27/2024	Sam Struble	12/02/2024	12/04/24			TBD	TBD



#	Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
	Q:	Sam Struble Sent Wed Nov 27, 2024 at 08:50 am EST Sheet M2.00 shows keynote 12 in Toilet Rooms 121 ar	nd 122 but no keynote on the dra	awing. I assume this is t	he trench drain not	:e?						
		If so, please provide details for the trench drains inclu	ding concrete reinforcing.									
	A:	Rebekah Burns (WTA Architects) Responded Mon Dec Please see attached. DOW GARDENS RFI 54 PBA REPSONSE.pdf	2, 2024 at 02:00 pm EST									
0.53	BP #3	- Concrete Collars	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/27/2024	Sam Struble	12/02/2024	12/03/24			TBD	TBD
	Q:	Sam Struble Sent Wed Nov 27, 2024 at 08:19 am EST For storm structures, are pre-cast concrete collars to l	be utilized and CIP around the ris	sers from the detention	system?							
	A:	Rebekah Burns (WTA Architects) Responded Tue Dec RFI response attached. RFI 53_ROWE Response.pdf	3, 2024 at 02:58 pm EST									
0.52	BP #3	- Curb and Gutter Height	Closed Spence Brothers	Struble, Sam (Spe	11/27/2024	Sam Struble	12/02/2024	11/27/24			TBD	TBD
	Q:	Sam Struble Sent Wed Nov 27, 2024 at 08:12 am EST The curb and gutter details are also an unusual heigh	t (required for City of Midland), ł	nowever, on the propert	y (in the parking lo	t) may a standar	d height curb and	d gutter be utilized	!?			
	A:	Sam Struble (Spence Brothers) Responded Wed Nov 2 No, please bid per plans and specifications.	27, 2024 at 08:12 am EST									
0.51	BP #3	- Retention Basin	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/27/2024	Sam Struble	12/02/2024	12/03/24			TBD	TBD
	Q:	Sam Struble Sent Wed Nov 27, 2024 at 07:58 am EST On sheet 7 on C1.05, it calls out 'suitable foundation'	for the Landmax retention basin	s. Please specify the int	ent of this.							
	A:	Rebekah Burns (WTA Architects) Responded Tue Dec : RFI response attached. RFI 51_ROWE Response.pdf	3, 2024 at 02:58 pm EST									
0.50	BP #3	- Topsoil for Proposed Islands	Closed Spence Brothers	Struble, Sam (Spe	11/26/2024	Sam Struble	12/02/2024	11/26/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 12:47 pm EST Whose responsibility is it to provide topsoil for propos	ed islands?									
	Α:	Sam Struble (Spence Brothers) Responded Tue Nov 20 BC 301 Excavation & Site Utilities.	6, 2024 at 12:47 pm EST									



#	Subjec	:t	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
0.49	BP #3 -	AWI Standards	Closed	Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/03/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 12:43 pm EST Spec 064023 does not reference AWI requirements ur project if the subcontractor/fabricator follows the guid			however, there are re	eferences to AWI o	quality standard	throughout the s	pec. To confirm, is	AWI certification	required, ar	id if so, can it bi	e waived for tl
	A:	Rebekah Burns (WTA Architects) Responded Mon Dec RFI attached for response. RFI 49 - WTA Reply.pdf	2, 2024 a	t 03:19 pm EST									
0.48	BP #3 -	- CAD File Availability	Closed	Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/03/24			TBD	TBD
		Sam Struble Sent Tue Nov 26, 2024 at 12:41 pm EST Please confirm that CAD files will be available for the	parking lo	t grading plan.									
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Mon Dec RFI attached for response. RFI 48 - WTA Reply.pdf	2, 2024 a	t 03:23 pm EST									
0.47	BP #3 -	Perforated Pipe Around Foundation	Closed	Spence Brothers	Struble, Sam (Spe	11/26/2024	Sam Struble	12/02/2024	11/27/24			TBD	TBD
		Sam Struble Sent Tue Nov 26, 2024 at 12:34 pm EST Who is responsible for the 6" perforated pipe in sheet	A1.10 ard	ound the proposed founda	ition?								
		Sam Struble (Spence Brothers) Responded Tue Nov 2 This is by BC 101.	6, 2024 at	12:34 pm EST									
0.46	BP #3 -	Parking Lot Building Permit	Closed	Spence Brothers	Struble, Sam (Spe	11/26/2024	Sam Struble	12/02/2024	11/26/24			TBD	TBD
		Sam Struble Sent Tue Nov 26, 2024 at 12:32 pm EST Who is responsible for the Building Permit for the new	parking l	ot?									
	A:	Sam Struble (Spence Brothers) Responded Tue Nov 20 This is to be procured and paid for by the CM.	6, 2024 at	12:32 pm EST									
0.45	BP #3 -	Site Concrete Curb and Gutter	Closed	Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/04/24			TBD	TBD
		Sam Struble Sent Tue Nov 26, 2024 at 12:05 pm EST Please confirm that the flow curb and gutter are to be	the stand	lard curb and gutter deta	il and will apply every	where the spill is	not indicated.						



P #3 -	Rebekah Burns (WTA Architects) Responded Tue Dec RFI response attached. RFI 45_ROWE Response.pdf Architectural Grading Plan/Radii Sam Struble Sent Tue Nov 26, 2024 at 10:16 am EST Sheets C-3.03 through Sheets C-3.05 reference the A not contain grading or radii).	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble						
Q:	Sam Struble Sent Tue Nov 26, 2024 at 10:16 am EST Sheets C-3.03 through Sheets C-3.05 reference the A		Moerdyk, Wayne (W Burns, Rebekah	11/26/2024	Sam Struble						
Q:	Sheets C-3.03 through Sheets C-3.05 reference the A	rchitectural Grading Plan for grade				12/02/2024	12/04/24			TBD	TBD
			es and Radii, however,	, the Architectural	drawing set doe	s not contain a gr	ading plan, they h	owever do have A	-1.01 that is	an overall site	plan (but does
	Please advise.										
<b>A</b> :	Rebekah Burns (WTA Architects) Responded Tue Dec RFI response attached. RFI 44_ROWE Response.pdf	3, 2024 at 02:57 pm EST									
P #3 -	Curb and Gutter Size	Closed Spence Brothers	Struble, Sam (Spe	11/26/2024	Sam Struble	12/02/2024	11/27/24			TBD	TBD
		that they are 2'-0". Is it acceptab	le to use an 18" curb a	and gutter instead	to save costs?						
<b>A</b> :		27, 2024 at 03:03 pm EST									
P #3 -	Custom Kitchen Items	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/20/2024	02/03/25			TBD	TBD
		ont kitchen area has architectural	elevations but the ba	ck kitchen does no	t. Please provide	e dimensioned ele	evations.				
A:	RFI response attached.	3, 2024 at 02:57 pm EST									
<b>A</b> :		, 2024 at 09:08 am EST									
P #3 -	Benches	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/04/24			TBD	TBD
	2: A: P #3 - 2: A: A: A:	<ul> <li>A: Sam Struble (Spence Brothers) Responded Wed Nov 2 Refer to Addendum #1.</li> <li>P #3 - Custom Kitchen Items</li> <li>Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST Are there elevations for the back kitchen area? The fr Are there elevations for the back kitchen area? The fr A: Rebekah Burns (WTA Architects) Responded Tue Jan 2 This question was addressed in Bid Pack 3 documents Rebekah Burns (WTA Architects) Responded Tue Dec A: RFI response attached. RFI 42 - WTA Reply.pdf</li> <li>Sam Struble (Spence Brothers) Responded Fri Dec 13</li> </ul>	<ul> <li>Sam Struble Sent Tue Nov 26, 2024 at 10:11 am EST The curb and gutters details on Sheet C-1.01 indicate that they are 2'-0". Is it acceptab</li> <li>A: Sam Struble (Spence Brothers) Responded Wed Nov 27, 2024 at 03:03 pm EST Refer to Addendum #1.</li> <li>P #3 - Custom Kitchen Items</li> <li>Closed Spence Brothers</li> <li>Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST Are there elevations for the back kitchen area? The front kitchen area has architectural</li> <li>A: Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 02:14 pm EST This question was addressed in Bid Pack 3 documents dated 1/9/2025</li> <li>Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST RFI response attached. RFI 42 - WTA Reply.pdf</li> <li>A: Sam Struble (Spence Brothers) Responded Fri Dec 13, 2024 at 09:08 am EST Please provide elevations for the back kitchen area.</li> </ul>	P # 3 - Curb and Gutter Size       Closed       Spence Brothers       (Spe         Sam Struble Sent Tue Nov 26, 2024 at 10:11 am EST       The curb and gutters details on Sheet C-1.01 indicate that they are 2'-0". Is it acceptable to use an 18" curb at Sam Struble (Spence Brothers) Responded Wed Nov 27, 2024 at 03:03 pm EST         Refer to Addendum #1.       Johnston, Jordan         Main Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Johnston, Jordan         Moerdyk, Wayne (W       Burns, Rebekah (W         Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Are there elevations for the back kitchen area? The front kitchen area has architectural elevations but the ba         Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 02:14 pm EST       This question was addressed in Bid Pack 3 documents dated 1/9/2025         Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST       RFI 42 - WTA Reply.pdf         A:       Sam Struble (Spence Brothers) Responded Tue Dec 13, 2024 at 09:08 am EST         P #3 - Benches       Closed Spence Brothers         Johnston, Jordan       Moerdyk, Wayne (W         P #3 - Benches       Closed Spence Brothers	P #3 - Curb and Gutter Size       Closed       Spence Brothers       (Spe       11/26/2024         Sam Struble Sent Tue Nov 26, 2024 at 10:11 am EST       The curb and gutters details on Sheet C-1.01 indicate that they are 2'-0". Is it acceptable to use an 18" curb and gutter instead         A:       Sam Struble (Spence Brothers) Responded Wed Nov 27, 2024 at 03:03 pm EST         Refer to Addendum #1.       Johnston, Jordan Moerdyk, Wayne         P #3 - Custom Kitchen Items       Closed       Spence Brothers         Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Moerdyk, Wayne         Are there elevations for the back kitchen area? The front kitchen area has architectural elevations but the back kitchen does not are there elevations for the back kitchen area? The front kitchen area has architectural elevations but the back kitchen does not are there elevations for the back add goutents dated 1/9/2025         A:       Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 02:14 pm EST         This question was addressed in Bid Pack 3 documents dated 1/9/2025         A:       Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 09:08 am EST         P #3 - Benches       Closed Spence Brothers         Johnston, Jordan       Moerdyk, Wayne         (W       11/26/2024         Burns, Rebekah       Intervention and Bid Pack 3 to	P # 3 - Curb and Gutter Size       Closed Spence Brothers       (Spe       11/26/2024       Sam Struble         Sam Struble Sent Tue Nov 26, 2024 at 10:11 am EST       The curb and gutters details on Sheet C-1.01 indicate that they are 2'-0". Is it acceptable to use an 18" curb and gutter instead to save costs?         A:       Sam Struble (Spence Brothers) Responded Wed Nov 27, 2024 at 03:03 pm EST         Refer to Addendum #1.       Johnston, Jordan         P #3 - Custom Kitchen Items       Closed Spence Brothers         W       Burns, Rebekah         W       11/26/2024         Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST         Are there elevations for the back kitchen area? The front kitchen area has architectural elevations but the back kitchen does not. Please provide         A:       Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 02:14 pm EST         This question was addressed in Bid Pack 3 documents dated 1/9/2025         Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 09:08 am EST         P #3 - Benches       Closed Spence Brothers         Johnston, Jordan         Moerdyk, Wayne         (W         Burns, Rebekah         UP + #3 - Benches         Closed Spence Brothers         Johnston, Jordan         Moerdyk, Wayne         (W         Burns, Rebek	P # 3 - Curb and Gutter Size       Closed Spence Brothers       (Spe)       11/26/2024       Sam Struble       12/02/2024         Sam Struble Sent Tue Nov 26, 2024 at 10:11 am EST       The curb and gutter instead to save costs?         A:       Sam Struble (Spence Brothers) Responded Wed Nov 27, 2024 at 03:03 pm EST         Refer to Addendum #1.       Johnston, Jordan         Moerdyk, Wayne       11/26/2024       Sam Struble       12/20/2024         P #3 - Custom Kitchen Items       Closed Spence Brothers       Johnston, Jordan       Moerdyk, Wayne         (W       11/26/2024       Sam Struble       12/20/2024         Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Are there elevations for the back kitchen area? The front kitchen area has architectural elevations but the back kitchen does not. Please provide dimensioned elevations was addressed in Bid Pack 3 documents dated 1/9/2025       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:08 am EST         Rebekah Burns (WTA Architects) Responded Tue Jan 21, 2025 at 02:14 pm EST       This question was addressed in Bid Pack 3 documents dated 1/9/2025       Image: Sam Struble (Spence Brothers) Responded Tue Dac 3, 2024 at 09:08 am EST         Rebekah Burns (WTA Architects) Responded Tue Dac 3, 2024 at 09:08 am EST       Image: Sam Struble (Spence Brothers) Responded Fri Dec 13, 2024 at 09:08 am EST         P #3 - Benches       Closed Spence Brothers       Johnston, Jordan         Moerdyk, Wayne (W	P # 3 - Curb and Gutter Size       Closed Spence Brothers       (Spe       11/26/2024       Sam Struble       12/02/2024       11/27/24         Sam Struble Sent Tue Nov 26, 2024 at 10:11 am EST       The curb and gutters details on Sheet C-1.01 indicate that they are 2'-0". Is it acceptable to use an 18" curb and gutter instead to save costs?       Image: Closed Spence Brothers       Image: Sam Struble Sam Struble Sam Struble Spence Brothers       Image: Sam Struble Sam Struble Sam Struble Sam Struble Spence Brothers       Image: Sam Struble Sam Struble Sam Struble Spence Brothers       Image: Sam Struble Sam Struble Sam Struble Sam Struble Spence Brothers       Image: Sam Struble Sam Struble Sam Struble Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST       Image: Sam Struble Sent Tue Nov 26, 2024 at 09:05 am EST       Image: Sam Struble Sent Sent Sent Sent Sent Sent Sent Sen	P # 3 - Curb and Gutter Size       Closed Spence Brothers       (Spe       11/26/2024       Sam Struble       12/20/2024       11/27/24         Sam Struble Sent Tue Nov 26, 2024 at 10:11 am EST The curb and gutters details on Sheet C-1.01 indicate that they are 2'-0". Is it acceptable to use an 18" curb and gutter instead to save costs?       Image: Closed Spence Brothers) Responded Wed Nov 27, 2024 at 03:03 pm EST Refer to Addendum #1.         P #3 - Custom Kitchen Items       Closed Spence Brothers       Johnston, Jordan MoerdyK, Wayne (W       11/26/2024       Sam Struble       12/20/2024       02/03/25         2:       Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST Are there elevations for the back kitchen area? The front kitchen area has architectural elevations but the back kitchen does not. Please provide dimensioned elevations.       Burns, Rebekah (W       Sam Struble Sent Tue Nov 26, 2024 at 09:55 am EST This question was addressed in Bid Pack 3 documents dated 1/9/2025       E       Image: Closed Spence Brothers       Image: Closed Spence Brothers<	************************************	P # 3 - Curb and outlet'size     Closed     Spence Brothers     (Spe     11/26/2024     Sam Strubble     10/21/24     10/21/24     10/21/24       Refer to Addendum #1.     Sam Struble Sent Tile Nov 26, 2024 at 0.011 am EST The curb and gutters details on Sheet C-1.01 indicate that they are 2'-0". Is it acceptable to use an 18" curb and gutter instead to save costs?     Image: Cost of the same strubble (Spence Brothers) Responded Wed Nov 27, 2024 at 03:03 pm EST Refer to Addendum #1.     Image: Cost of the same strubble (Spence Brothers) Responded Wed Nov 27, 2024 at 03:03 pm EST     Image: Cost of the same strubble (Spence Brothers) Responded Wed Nov 27, 2024 at 03:03 pm EST Refer to Addendum #1.     Image: Cost of the same strubble (Spence Brothers) Responded Wed Nov 27, 2024 at 03:03 pm EST Refer to Addendum #1.     Image: Cost of the same strubble (Spence Brothers) Responded Wed Nov 27, 2024 at 03:03 pm EST Refer to Addendum #1.     Image: Cost of Spence Brothers     Image: Cost of Spence Brothers) Responded Tile provide the same strubble (Spence Brothers) Responded Tile provide at 21, 2025 at 02:14 pm EST This question was addressed in Bid Pack 3 documents dated 1/9/2025     Image: Cost of Spence Brothers) Responded Tile pack 3, 2024 at 02:05 pm EST Refer to Addressed in Bid Pack 3 documents dated 1/9/2025     Image: Cost of Spence Brothers) Responded Tile pack 3, 2024 at 02:05 pm EST Refer to Addressed in Bid Pack 3 documents dated 1/9/2025     Image: Cost of Spence Brothers) Responded Tile pack 3, 2024 at 02:05 pm EST Refer to Addressed in Bid Pack 3 documents dated 1/9/2025     Image: Cost of Spence Brothers) Responded Tile pack 3, 2024 at 02:05 pm EST Refer to Addressed in Bid Pack 3 documents dated 1/9/2025     Image: Cost of Spence Brothers) Responded Tile pac 13, 2024 at 02



#	Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 09:40 am ES Please provide additional details and specifications										
	A:	Rebekah Burns (WTA Architects) Responded Tue De RFI response attached. RFI 41 - WTA Reply.pdf	ec 3, 2024 at 02:57 pm EST									
0.40	BP #3	- Sliding Window	Closed Spence Brothers	Struble, Sam (Spe	11/26/2024	Sam Struble	12/02/2024	11/27/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 09:37 am ES Item #28 on the write-up for BC 307 calls out a slidi		drawings.								
	A:	Sam Struble (Spence Brothers) Responded Tue Nov This was intended to be the pass-through door deta		e by BC 307.								
0.39	BP #3	- Knox Box	Closed Spence Brothers	Struble, Sam (Spe	11/26/2024	Sam Struble	12/05/2024	12/13/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 09:28 am ES Which bid category is responsible for furnishing and										
	A:	Sam Struble (Spence Brothers) Responded Tue Nov BC 307 General Trades.	26, 2024 at 09:28 am EST									
0.38	BP #3	- A7.01 & A7.02	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/20/2024	02/03/25			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 09:24 am ES Details on A7.01 and A7.02 appears to be incomple										
	A:	Rebekah Burns (WTA Architects) Responded Tue Jar This question was addressed in Bid Pack 3 documer										
	A:	Rebekah Burns (WTA Architects) Responded Tue De RFI response attached. RFI 38 - WTA Reply.pdf	ec 3, 2024 at 02:57 pm EST									
	A:	Sam Struble (Spence Brothers) Responded Fri Dec Reopening this RFI for tracking purposes. Please pr										
0.37	BP #3	- Louvers and Grilles	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/04/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 09:19 am ES Addendum #1 clarifies that furnishing and installat		illes are the responsil	bility of the Gener	al Trades Contrad	ctor and refers to	a note on sheet A	2.12.			
		Please provide a specification for these items.										



Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
<b>A</b> :	Rebekah Burns (WTA Architects) Responded Tue Dec 3 RFI response attached. RFI 37 - WTA Reply.pdf	3, 2024 at 02:57 pm EST									
BP #3	- Specialties	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/04/24			TBD	TBD
Q:	Sam Struble Sent Tue Nov 26, 2024 at 09:18 am EST Interior elevations and Furniture/Equipment Plan (A2. Privacy Screen (SP-04).	31) show "other" specialties that a	ire not shown in specs	or write-up for Bio	d Category #307	7. Please provide	specifications for	- 6'-0"x 3'-0" Mirro	r (SP-01), Cl	othing Hook (SP-0.	3), and
A:	BC #307 is responsible to furnish and install. Rebekah Burns (WTA Architects) Responded Tue Dec 3 RFI response attached. RFI 36 - WTA Reply.pdf	3, 2024 at 02:56 pm EST									
BP #3	- FEC	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/04/24			TBD	TBD
Q:	like					lan (A2.12), and n	o wall-hung fire e	extinguishers (FE) a	anywhere o	n the job. This doe:	s not seem
	Please confirm the fire extinguisher and cabinet quan	tities and locations, per the drawir	igs.								
A:	Rebekah Burns (WTA Architects) Responded Tue Dec 3 RFI response attached. RFI 35 - WTA Reply.pdf	3, 2024 at 02:56 pm EST									
BP #3	- Gate Hardware for Enclosures	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/20/2024	02/03/25			TBD	TBD
Q:	Sam Struble Sent Tue Nov 26, 2024 at 09:13 am EST Please provide a specification for the weatherized par	nic hardware and keyed deadbolt fo	or the Cafe Terrace En	closure and Mecha	anical Enclosure	that are shown o	n A1.10.				
А:											
A:	Rebekah Burns (WTA Architects) Responded Tue Dec 3 RFI response attached. RFI 34 - WTA Reply.pdf	3, 2024 at 02:56 pm EST									
	A: BP #3 Q: A: BP #3 Q: A: BP #3 Q: A: BP #3	A:       RFI response attached. RFI 37 - WTA Reply.pdf         BP #3 - Specialties       Sam Struble Sent Tue Nov 26, 2024 at 09:18 am EST Interior elevations and Furniture/Equipment Plan (A2. Privacy Screen (SP-04).         BC #307 is responsible to furnish and install.         Rebekah Burns (WTA Architects) Responded Tue Dec 3 RFI response attached. RFI 36 - WTA Reply.pdf         BP #3 - FEC         Sam Struble Sent Tue Nov 26, 2024 at 09:16 am EST There are only (3) Recessed FE Cabinets (FEC) and (1) like enough FE for this size of building to satisfy the code of Please confirm the fire extinguisher and cabinet quan REbekah Burns (WTA Architects) Responded Tue Dec 3 REP #3 - Gate Hardware for Enclosures         Q:       Sam Struble Sent Tue Nov 26, 2024 at 09:13 am EST There are only (3) Recessed FE Cabinets (FEC) and (1) like enough FE for this size of building to satisfy the code of Please confirm the fire extinguisher and cabinet quan REP #3 - Gate Hardware for Enclosures         Q:       Sam Struble Sent Tue Nov 26, 2024 at 09:13 am EST Please provide a specification for the weatherized par Please provide a specification for the weatherized par A:         Rebekah Burns (WTA Architects) Responded Tue Jan 2 This question was addressed in Bid Pack 3 documents Rebekah Burns (WTA Architects) Responded Tue Jan 2 This question was addressed in Bid Pack 3 documents         A:       Rebekah Burns (WTA Architects) Responded Tue Jan 2 This question was addressed in Bid Pack 3 documents         A:       Rebekah Burns (WTA Architects) Responded Tue Dec 3 Rebekah Burns (WTA Architects) Responded Tue Dec 3 Rebekah Burns (WTA Architects) Responded Tue Dec 3 Rebekah Burns (WTA Archi	Contractor           A:         Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST RFI response attached. RFI 37 - WTA Reply.pdf           BP #3 - Specialties         Closed         Spence Brothers           Sam Struble Sent Tue Nov 26, 2024 at 09:18 am EST Interior elevations and Furniture/Equipment Plan (A2.31) show "other" specialties that a Privacy           Q:         Screen (SP-04).         BC #307 is responsible to furnish and install.           Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST RFI response attached. RFI 36 - WTA Reply.pdf           BP #3 - FEC         Closed         Spence Brothers           Sam Struble Sent Tue Nov 26, 2024 at 09:16 am EST There are only (3) Recessed FE Cabinets (FEC) and (1) Semi-Recessed FE Cabinet showr like enough FE for this size of building to satisfy the code requirements. Also, there is no FE Please confirm the fire extinguisher and cabinet quantities and locations, per the drawir Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST A:         RFI response attached. RFI 35 - WTA Reply.pdf           BP #3 - Gate Hardware for Enclosures         Closed         Spence Brothers           Q:         Sam Struble Sent Tue Nov 26, 2024 at 09:13 am EST Please provide a specification for the weatherized panic hardware and keyed deadbolt ff RFI response attached.           RFI response attached.         RFI response attached.         RFI response attached.           RFI response attached.         RFI response attached.         RFI response attached. <td>Contractor           Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST RFI response attached. RFI 37 - WTA Reply.pdf           BP #3 - Specialties         Closed         Spence Brothers         Johnston, Jordan (W Burns, Rebekah (W           BP #3 - Specialties         Closed         Spence Brothers         Johnston, Jordan (W           Burns, Rebekah (W         Sam Struble Sent Tue Nov 26, 2024 at 09:18 am EST Interior elevations and Furniture/Equipment Plan (A2.31) show "other" specialties that are not shown in specs Privacy Screem (SP-04).           BC #307 is responsible to furnish and install.         Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST RFI response attached. RFI 36 - WTA Reply.pdf         Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W           BP #3 - FEC         Closed         Spence Brothers         Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W           Q:         Sam Struble Sent Tue Nov 26, 2024 at 09:16 am EST There are only (3) Recessed FE Cabinets (FEC) and (1) Semi-Recessed FE Cabinet shown on the Life Safety Pla like enough FE for this size of building to satisfy the code requirements. Also, there is no FE shown in the kitchens Please confirm the fire extinguisher and cabinet quantities and locations, per the drawings.           Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST RFI response attached. RFI 35 - WTA Reply.pdf         Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W           BP #3 - Gate Hardware for Enclosures         Closed Spence Brothers Plea</td> <td>Contractor           Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST RF 137 - WTA Reply.pdf         Johnston, Jordan Moerdyk, Wayne (W           BP #3 - Specialties         Closed Spence Brothers         Johnston, Jordan Moerdyk, Wayne (W         11/26/2024 Burns, Rebekah (W           g:         Sam Struble Sent Tue Nov 26, 2024 at 09:18 am EST Interior relevations and Furniture/Equipment Plan (A2.31) show "other" specialties that are not shown in specs or write-up for Bio Privacy Screen (SP-04).           BC # 307 is responsible to furnish and install.         E           BC # 307 is responsible to furnish and install.         Interior relevations and Furniture/Equipment Plan (A2.31) show "other" specialties that are not shown in specs or write-up for Bio Privacy Screen (SP-04).           BC # 307 is responsible to furnish and install.         E           Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST There are only (3) Recessed FE Cabinets (FEC) and (1) Semi-Recessed FE Cabinet shown on the Life Safety Plan (L5-1) and First 1 like enough FE for this size of building to satisfy the code requirements. Also, there is no FE shown in the kitchens or mechanical roc Please confirm the fire extinguisher and cabinet quantities and locations, per the drawings.           Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST There are only (3) Recessed FE Cabinets (FEC) and EST There are only (3) Recessed FE Cabinets (FEC) and EST There are only (3) Recessed FE Cabinets (FEC) and EST There are only (3) Recessed FE Cabinets (FEC) and EST There are only (3) Recessed FE Cabinets and locations, per the drawings.</td> <td>Contractor         A:       Releasing Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST         A:       RF: response attached.       Johnston. Jordan         Moerdyk, Wayne       Jul/26/2024       Sam Struble         BP #3 - Specialties       Closed       Spence Brothers       Johnston. Jordan         Moerdyk, Wayne       Jul/26/2024       Sam Struble         BP #3 - Specialties       Closed       Spence Brothers       Johnston. Jordan         Moerdyk, Wayne       July 26/2024       Sam Struble       Sam Struble         BP #3 - FEC       Closed       Spence Brothers       Johnston. Jordan         Moerdyk, Wayne       July 26/2024       Sam Struble       Sam Struble         BP #3 - FEC       Closed       Spence Brothers       Johnston. Jordan         Moerdyk, Wayne       July 26/2024       Sam Struble       Sam Struble         Ge:       Sam Struble Sent Tue Nov 26, 2024 at 09:16 am EST       Three are only (3) Recessed FE Cabinets feet Cabinet shown on the Life Safety Plan (LS-1) and First Floor Notation Plike         Releasing WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST       Releasing WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST         Release confirm the fire extinguisher and cabinet quantities and locations, per the drawings.       Ill 26/2024       Sam S</td> <td>Image: Contractor       Image: Contractor       Image: Contractor         A:       Releasing Sums (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST       Second Sums (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST         BP #3 - Specialties       Closed       Spence Brothers       Johnston, Jordan Morely, Wayne (W. Wayne (W</td> <td>Contractor       Contractor         Release Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST RF 1869/pdf       Marchitects RF 197-WTA Restypdf         BP #3 - Specialties       Closed Spence Brothers       Johnston, Jordan Meertyk, Wayne (W Burns, Release Sam Struble Set: Tue Nov 26, 2024 at 00:18 am EST Interior effections and Furniture/Equipment Plan (A2.31) show "other" specialties that are not shown in specs or write-up for Bid Category #307. Rease provide specifications for Privacy Screen (SP-04).         BP #3 - FEC       Closed Spence Brothers       Johnston, Jordan Moertyk, Wayne (W Burns, Rebekah (W       Johnston, Jordan Moertyk, Wayne (W Burns, Rebekah (W       Johnston Jordan Moertyk, Wayne (W Burns, Rebekah (W       Johnston Jordan Moertyk, Wayne (W Burns, Rebekah (W         BP #3 - FEC       Closed Spence Brothers (Privacy Sam Struble Set: Tue Nov 26, 2024 at 09:16 am EST There are only (3) Recessed FE Cabinets (FEC) and (1) Semi-Recessed FE Cabinet shown on the Life Safety Plan (LS-1) and First Floor Notation Plan (A2.12), and no wall-hung fire flue (W (W Burns, Rebekah (W (W Burns, Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST Ref 3 - WTA Reply, pdf       Johnston, Jordan Moertyk, Wayne (W</td> <td>Image: Contractor         Contractor           BP         Eleckeds Burns (VTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST         Second Sec</td> <td>Image: Contractor       Contractor         Image: Contractor       Contractor         Image: Contractor       Contractor         Image: Contractor       Contractor       Contractor         Image: Contractor       Contractor       Contractor       Contractor         Image: Contractor       Contractor       Contractor       Contractor       Contractor         Image: Contractor       Contractor       Contractor       Contractor       Contractor       Contractor         Image: Contractor       Contra</td> <td>Image       Contractor       Image       Image         Relation       Relation</td>	Contractor           Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST RFI response attached. RFI 37 - WTA Reply.pdf           BP #3 - Specialties         Closed         Spence Brothers         Johnston, Jordan (W Burns, Rebekah (W           BP #3 - Specialties         Closed         Spence Brothers         Johnston, Jordan (W           Burns, Rebekah (W         Sam Struble Sent Tue Nov 26, 2024 at 09:18 am EST Interior elevations and Furniture/Equipment Plan (A2.31) show "other" specialties that are not shown in specs Privacy Screem (SP-04).           BC #307 is responsible to furnish and install.         Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST RFI response attached. RFI 36 - WTA Reply.pdf         Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W           BP #3 - FEC         Closed         Spence Brothers         Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W           Q:         Sam Struble Sent Tue Nov 26, 2024 at 09:16 am EST There are only (3) Recessed FE Cabinets (FEC) and (1) Semi-Recessed FE Cabinet shown on the Life Safety Pla like enough FE for this size of building to satisfy the code requirements. Also, there is no FE shown in the kitchens Please confirm the fire extinguisher and cabinet quantities and locations, per the drawings.           Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST RFI response attached. RFI 35 - WTA Reply.pdf         Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W           BP #3 - Gate Hardware for Enclosures         Closed Spence Brothers Plea	Contractor           Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST RF 137 - WTA Reply.pdf         Johnston, Jordan Moerdyk, Wayne (W           BP #3 - Specialties         Closed Spence Brothers         Johnston, Jordan Moerdyk, Wayne (W         11/26/2024 Burns, Rebekah (W           g:         Sam Struble Sent Tue Nov 26, 2024 at 09:18 am EST Interior relevations and Furniture/Equipment Plan (A2.31) show "other" specialties that are not shown in specs or write-up for Bio Privacy Screen (SP-04).           BC # 307 is responsible to furnish and install.         E           BC # 307 is responsible to furnish and install.         Interior relevations and Furniture/Equipment Plan (A2.31) show "other" specialties that are not shown in specs or write-up for Bio Privacy Screen (SP-04).           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Contractor         A:       Releasing Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST         A:       RF: response attached.       Johnston. Jordan         Moerdyk, Wayne       Jul/26/2024       Sam Struble         BP #3 - Specialties       Closed       Spence Brothers       Johnston. Jordan         Moerdyk, Wayne       Jul/26/2024       Sam Struble         BP #3 - Specialties       Closed       Spence Brothers       Johnston. Jordan         Moerdyk, Wayne       July 26/2024       Sam Struble       Sam Struble         BP #3 - FEC       Closed       Spence Brothers       Johnston. Jordan         Moerdyk, Wayne       July 26/2024       Sam Struble       Sam Struble         BP #3 - FEC       Closed       Spence Brothers       Johnston. Jordan         Moerdyk, Wayne       July 26/2024       Sam Struble       Sam Struble         Ge:       Sam Struble Sent Tue Nov 26, 2024 at 09:16 am EST       Three are only (3) Recessed FE Cabinets feet Cabinet shown on the Life Safety Plan (LS-1) and First Floor Notation Plike         Releasing WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST       Releasing WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST         Release confirm the fire extinguisher and cabinet quantities and locations, per the drawings.       Ill 26/2024       Sam S	Image: Contractor       Image: Contractor       Image: Contractor         A:       Releasing Sums (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST       Second Sums (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST         BP #3 - Specialties       Closed       Spence Brothers       Johnston, Jordan Morely, Wayne (W. Wayne (W	Contractor       Contractor         Release Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST RF 1869/pdf       Marchitects RF 197-WTA Restypdf         BP #3 - Specialties       Closed Spence Brothers       Johnston, Jordan Meertyk, Wayne (W Burns, Release Sam Struble Set: Tue Nov 26, 2024 at 00:18 am EST Interior effections and Furniture/Equipment Plan (A2.31) show "other" specialties that are not shown in specs or write-up for Bid Category #307. Rease provide specifications for Privacy Screen (SP-04).         BP #3 - FEC       Closed Spence Brothers       Johnston, Jordan Moertyk, Wayne (W Burns, Rebekah (W       Johnston, Jordan Moertyk, Wayne (W Burns, Rebekah (W       Johnston Jordan Moertyk, Wayne (W Burns, Rebekah (W       Johnston Jordan Moertyk, Wayne (W Burns, Rebekah (W         BP #3 - FEC       Closed Spence Brothers (Privacy Sam Struble Set: Tue Nov 26, 2024 at 09:16 am EST There are only (3) Recessed FE Cabinets (FEC) and (1) Semi-Recessed FE Cabinet shown on the Life Safety Plan (LS-1) and First Floor Notation Plan (A2.12), and no wall-hung fire flue (W (W Burns, Rebekah (W (W Burns, Rebekah Burns (WTA Architects) Responded Tue Dec 3, 2024 at 02:56 pm EST Ref 3 - WTA Reply, pdf       Johnston, Jordan Moertyk, Wayne (W	Image: Contractor         Contractor           BP         Eleckeds Burns (VTA Architects) Responded Tue Dec 3, 2024 at 02:57 pm EST         Second Sec	Image: Contractor       Contractor         Image: Contractor       Contractor         Image: Contractor       Contractor         Image: Contractor       Contractor       Contractor         Image: Contractor       Contractor       Contractor       Contractor         Image: Contractor       Contractor       Contractor       Contractor       Contractor         Image: Contractor       Contractor       Contractor       Contractor       Contractor       Contractor         Image: Contractor       Contra	Image       Contractor       Image       Image         Relation       Relation



	ubject	t		Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
_		Sam Struble (Spence Brothers) Responded Fri Dec 13 Please provide a specification for these items.	, 2024 at 08	8:30 am EST									
.33 B	P #3 - I	Lobby Signage	Closed S	Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/20/2024	02/03/25			TBD	TBD
(		Sam Struble Sent Tue Nov 26, 2024 at 09:11 am EST A8.01 shows a 2'-0" x 8'-0" acrylic sign in the Lobby (2	2/A8.01). Tł	nis sign is not shown o	n A2.50 or A2.51 and is	not included in th	e specifications	for Signage (10-1	400). This is to be	provided by BC 3	07.		
_		Please provide additional information on this sign for	pricing.										
		Rebekah Burns (WTA Architects) Responded Tue Jan 2 This question was addressed in Bid Pack 3 documents											
	A:	Rebekah Burns (WTA Architects) Responded Tue Dec 3 RFI response attached. RFI 33 - WTA Reply.pdf	3, 2024 at 0	02:47 pm EST									
_	A:	Sam Struble (Spence Brothers) Responded Fri Dec 13 I see that this sign was clarified in Addendum #3 and	, 2024 at 08 added to th	8:37 am EST ne sign schedule, but p	lease provide a specifi	cation.							
32 B	P #3 - ,	AED Recessed Cabinets	Closed S	Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/20/2024	02/03/25			TBD	TBD
		AED Recessed Cabinets Sam Struble Sent Tue Nov 26, 2024 at 09:08 am EST There are (2) AED fully recessed cabinets shown on th			Moerdyk, Wayne (W Burns, Rebekah (W							TBD	TBD
_	Q:	Sam Struble Sent Tue Nov 26, 2024 at 09:08 am EST	ne Life Safe	ty Plan (LS-1) and First	Moerdyk, Wayne (W Burns, Rebekah (W							TBD	TBD
_	Q:	Sam Struble Sent Tue Nov 26, 2024 at 09:08 am EST There are (2) AED fully recessed cabinets shown on th	ne Life Safe cification fo 21, 2025 at (	ty Plan (LS-1) and First or the cabinet. 02:13 pm EST	Moerdyk, Wayne (W Burns, Rebekah (W							TBD	TBD
_	Q:	Sam Struble Sent Tue Nov 26, 2024 at 09:08 am EST There are (2) AED fully recessed cabinets shown on th Please provide a make, model and dimensions or spe Rebekah Burns (WTA Architects) Responded Tue Jan 2	ne Life Safe cification fo 1, 2025 at ( s dated 1/9/	ty Plan (LS-1) and First or the cabinet. 02:13 pm EST /2025	Moerdyk, Wayne (W Burns, Rebekah (W							TBD	TBD
_	Q:	Sam Struble Sent Tue Nov 26, 2024 at 09:08 am EST There are (2) AED fully recessed cabinets shown on th Please provide a make, model and dimensions or spe- Rebekah Burns (WTA Architects) Responded Tue Jan 2 This question was addressed in Bid Pack 3 documents Rebekah Burns (WTA Architects) Responded Tue Dec 2 RFI response attached.	ne Life Safe cification fo 1, 2025 at ( 5 dated 1/9/ 3, 2024 at 0	ty Plan (LS-1) and First or the cabinet. 02:13 pm EST 2025 02:46 pm EST 8:19 am EST	Moerdyk, Wayne (W Burns, Rebekah (W							TBD	TBD
	Q: A:	Sam Struble Sent Tue Nov 26, 2024 at 09:08 am EST There are (2) AED fully recessed cabinets shown on th Please provide a make, model and dimensions or spe Rebekah Burns (WTA Architects) Responded Tue Jan 2 This question was addressed in Bid Pack 3 documents Rebekah Burns (WTA Architects) Responded Tue Dec 2 RFI response attached. RFI 32 - WTA Reply.pdf Sam Struble (Spence Brothers) Responded Fri Dec 13	ne Life Safe cification fo 1, 2025 at ( s dated 1/9/ 3, 2024 at 0 , 2024 at 0 ng purposes	ty Plan (LS-1) and First or the cabinet. 02:13 pm EST 2025 02:46 pm EST 8:19 am EST	Moerdyk, Wayne (W Burns, Rebekah (W			nere in the Project				TBD	TBD



#	Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
	А:	Rebekah Burns (WTA Architects) Responded Tue Dec RFI response attached. RFI 31 - WTA Reply.pdf	3, 2024 at 02:46 pm EST									
0.30	BP #3	- Concrete Admixtures	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/04/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 08:55 am EST Is MVRA required for Polished Concrete (PC-1) & Seale Is MVRA required for Resinous Floor (RF-1 & RF-2) are Is MVRA required for Ceramic Tile (CT-7) floor areas?										
		If MVRA is required, please provide a specific admixtu	re product for pricing (i.e. VaporLo	ok 20/20, etc).								
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Tue Dec RFI response attached. RFI 30 - WTA Reply.pdf	3, 2024 at 02:46 pm EST									
0.29	BP #3	- Asphalt Top Course & Concrete	Closed Spence Brothers	Struble, Sam (Spe	11/26/2024	Sam Struble	12/02/2024	12/03/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 08:52 am EST For top course of asphalt, will multiple mobs be need	ed or can this be completed all at o	once?								
	A:	Sam Struble (Spence Brothers) Responded Wed Nov Top course of asphalt will be completed at one time.	27, 2024 at 02:58 pm EST									
0.28	BP #3	- Parking Lot Phasing	Closed Spence Brothers	Struble, Sam (Spe	11/26/2024	Sam Struble	12/02/2024	11/27/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 08:49 am EST Due to the phasing plan and gap between phases, wi	II the south lot need temp striping	? Single line or double	line like the stand	ard?						
	<b>A</b> :	Sam Struble (Spence Brothers) Responded Wed Nov Temp striping will be required in the south portion of t	27, 2024 at 02:59 pm EST he lot prior to topcoat the followir	ng year.								
0.27	BP #3	- Library Lot	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/04/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 08:47 am EST Please confirm the only work in the library lot is the a	dded area on the west side of the	parking lot and provide	e details for scope	of work.						
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Mon Dec RFI response attached for review. RFI 27 - WTA Reply.pdf	2, 2024 at 01:41 pm EST									
0.26	BP #3	- Parking Lot Signage	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne	11/26/2024	Sam Struble	12/02/2024	12/09/24			TBD	TBD



<b>#</b>	Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court		Schedule Impact	Cost Impact
				(W Burns, Rebekah (W								
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 08:45 am EST Please provide details and requirements for parking										
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Wed De Please see attached response. RFI 26 - WTA Reply.pdf	c 4, 2024 at 12:06 pm EST									
.25	BP #3	- Operable Partition	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/04/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 08:29 am EST Are pocket doors required? There is no detail but me track instead. It can handle up to 1,000 lb panels.		2.6 – B. Same section, tl	he #14 suspensio	n called out is ty	pically used on t	ne taller/longer pa	rtition systems. T	he supplier w	ould like to rec	commend #17
		Please advise.										
	A:	Rebekah Burns (WTA Architects) Responded Tue Dec RFI response attached. RFI 25 - WTA Reply.pdf	3, 2024 at 02:45 pm EST									
.24	BP #3	- Door Schedule (Door Types)	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/09/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 08:25 am EST Most of the door types are not listed on the door sch		n. Refer to sheet A3.10.								
	А:	Rebekah Burns (WTA Architects) Responded Wed De Please see attached response. RFI 24 - WTA Reply.pdf	c 4, 2024 at 12:06 pm EST									
.23	BP #3	- Wall Type A4.2	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/09/24			TBD	TBD
		Sam Struble Sent Tue Nov 26, 2024 at 08:19 am EST		ovided on A0.01. Please	provide.							
	Q:	Please refer to sheet A2.12. There are walls tagged a	is 4.2 but that wan type is not pro									
		Please refer to sheet A2.12. There are walls tagged a Rebekah Burns (WTA Architects) Responded Wed De Please see attached response. RFI 23 - WTA Reply.pdf										



#	Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
				Moerdyk, Wayne (W Burns, Rebekah (W								
		Sam Struble Sent Tue Nov 26, 2024 at 08:14 am EST 1. Door 117.1 is on the door schedule as HW Set 23. 1	The hardware schedule has door	r openings listed and do	es not list 117.1 fo	r Set 23. Set 23	shows 117A.2 an	d 120.16				
	Q:	2. Door 120.2 is listed as HW set 27 on the door sched	dule. The hardware schedule ha	s 120.2 listed on hardw	are set 08 and 27.							
		3. Door 129A.1 has no hardware set listed on the door	r schedule, but lists set 13 on th	e hardware schedule.								
		4. Door 130.2 has no hardware set listed on the door s	schedule, but lists set 03 on the	hardware schedule.								
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Wed Dec Please see attached response. RFI 22 - WTA Reply.pdf	4, 2024 at 12:05 pm EST									
0.21	BP #3	- Wall Protection	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/26/2024	Sam Struble	12/02/2024	12/09/24			TBD	TBD
	Q:	Sam Struble Sent Tue Nov 26, 2024 at 08:11 am EST Specification Section 10-2600 (Wall Protection) refers Corner Guards (CG-1) and Stainless Steel Wall Protect			ent products. Pleas	e clarify that the	e General Trades o	contractor is ONLY	responsible for fu	ırnishing and	l installation of Si	tainless-Steel
		Also, please provide further specifications for the stai	nless steel material (gauge, fini	sh and SS grade) and ar	ngle dimension for	CG-1 and typical	panel width for \	WFT-7.				
	<b>A</b> :	Rebekah Burns (WTA Architects) Responded Wed Dec Please see attached response. RFI 21 - WTA Reply.pdf	4, 2024 at 12:04 pm EST									
0.20	BP #3	- Food Service Substitution	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	11/22/2024	Sam Struble	12/03/2024	11/26/24			TBD	TBD
	Q:	Sam Struble Sent Fri Nov 22, 2024 at 10:23 am EST Is Custom Stainless Steel Fabricators an acceptable si	ubstitution to the list of approve	:d?								
		Can Advance Tabco, Titan Stainless, and Stafford Smit	th be added as approved fabrica	ators?								
	<b>A</b> :	Wayne Moerdyk (WTA Architects) Responded Mon Nov See attached. Response. 23-325-Dow_Gardens_Welcome_Center-0.20-BP_3-Fo		11-22 - WTA Response.p	df							
0.19	BP #3	- Food Service Equipment	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne	11/22/2024	Sam Struble	10/29/2024	11/26/24			TBD	TBD



	Subje	ect	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
				(W								
	Q:	Sam Struble Sent Fri Nov 22, 2024 at 10:20 am Can tables E,F,G, be multiple tables to fill the sp Do they have undershelves, drawers? Wall shelves										
		X – What is the depth for them? One looks like 1	18" but the other is about 24" on the d	rawings. Standard abov	e a worktable is 1	5" depth.						
		Please advise.										
	<b>A</b> :	Wayne Moerdyk (WTA Architects) Responded M See attached. 23-325-Dow_Gardens_Welcome_Center-0.19-B		L-22 - WTA Reply.pdf								
18	BP #3	- Spray Applied Fire Proofing	Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	11/21/2024	Sam Struble	12/02/2024	11/26/24			TBD	TBD
	Q:	Sam Struble Sent Thu Nov 21, 2024 at 09:18 an Please advise where this is located on the proje										
	<b>A</b> :	Wayne Moerdyk (WTA Architects) Responded Fr See attached. 23-325-Dow_Gardens_Welcome_Center-0.18-B		-11-22 - WTA Reply.pdf								
.17		See attached.		Johnston, Jordan Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	11/21/2024	Sam Struble	11/26/2024	11/26/24			TBD	TBD
.17		See attached. 23-325-Dow_Gardens_Welcome_Center-0.18-B	P_3-Spray_Applied_Fire_Proofing-2024 Closed Spence Brothers	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne	11/21/2024	Sam Struble	11/26/2024	11/26/24			TBD	TBD
17	BP #3	See attached. 23-325-Dow_Gardens_Welcome_Center-0.18-B - Room Finish Schedule Sam Struble Sent Thu Nov 21, 2024 at 09:16 an Can a room finish schedule be provided? Wayne Moerdyk (WTA Architects) Responded Fr	P_3-Spray_Applied_Fire_Proofing-2024 Closed Spence Brothers n EST ri Nov 22, 2024 at 02:34 pm EST	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	11/21/2024	Sam Struble	11/26/2024	11/26/24			TBD	TBD
	BP #3 Q: A:	See attached. 23-325-Dow_Gardens_Welcome_Center-0.18-B - Room Finish Schedule Sam Struble Sent Thu Nov 21, 2024 at 09:16 an Can a room finish schedule be provided? Wayne Moerdyk (WTA Architects) Responded Fr See attached.	P_3-Spray_Applied_Fire_Proofing-2024 Closed Spence Brothers n EST ri Nov 22, 2024 at 02:34 pm EST	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W	11/21/2024	Sam Struble		11/26/24			TBD	TBD
	BP #3 Q: A:	See attached. 23-325-Dow_Gardens_Welcome_Center-0.18-B - Room Finish Schedule Sam Struble Sent Thu Nov 21, 2024 at 09:16 an Can a room finish schedule be provided? Wayne Moerdyk (WTA Architects) Responded Fr See attached. 23-325-Dow_Gardens_Welcome_Center-0.17-B	P_3-Spray_Applied_Fire_Proofing-2024 Closed Spence Brothers n EST ri Nov 22, 2024 at 02:34 pm EST P_3-Room_Finish_Schedule-2024-11-2 Closed Spence Brothers m EST	Johnston, Jordan Burns, Rebekah (W Moerdyk, Wayne (W 2 - WTA Reply.pdf Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/14/2024	Sam Struble						



	Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
		Response attached, please review. RFI 16 - WTA Reply.pdf										
).15	BP #3	- Copper Fascia	Closed Spence Brothers	Struble, Sam (Spe	11/14/2024	Sam Struble	11/25/2024	11/21/24			TBD	TBD
	Q:	Sam Struble Sent Thu Nov 14, 2024 at 09:21 am EST Who installs the hat channel in the attached detail? Dow Gardens RFI #2.pdf										
	A:	Sam Struble (Spence Brothers) Responded Thu Nov 2 BC 311 Acoustical	1, 2024 at 09:08 am EST									
0.14	BP #3	- Plumbing Equipment	Closed Spence Brothers	Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	11/14/2024	Sam Struble	11/20/2024	11/21/24			TBD	TBD
	Q:	Sam Struble Sent Thu Nov 14, 2024 at 09:17 am EST There are several instances where the plumbing equi advise.	pment is labelled differently bet	ween drawings M2.00 a	nd M2.10. For inst	ance, in room #	115, the lav is lal	belled LAV-1 on dra	wing M2.0 but is l	abelled LAV-	4 on drawing M	2.10. Please
	A:	Rebekah Burns (WTA Architects) Responded Thu Nov Response attached, please review. DOW GARDENS RFI 14 PBA REPSONSE.pdf	14, 2024 at 04:49 pm EST									
15				Johnston, Jordan Moerdyk, Wayne	11/14/2024		11/20/2024	11/21/24			TBD	TBD
.15	BP #3	- Sump Piping Detail	Closed Spence Brothers	(W Burns, Rebekah (W	11/14/2024	Sam Struble	11/20/2024	11/21/24				
.15	BP #3	- Sump Piping Detail Sam Struble Sent Thu Nov 14, 2024 at 09:15 am EST Can you please provide a more detailed version of th		Burns, Rebekah (W					learly indicated.			
.15	Q:	Sam Struble Sent Thu Nov 14, 2024 at 09:15 am EST	e sump piping on drawing M2.00	Burns, Rebekah (W					learly indicated.			
	Q: A:	Sam Struble Sent Thu Nov 14, 2024 at 09:15 am EST Can you please provide a more detailed version of th Rebekah Burns (WTA Architects) Responded Thu Nov Response attached, please review.	e sump piping on drawing M2.00	Burns, Rebekah (W			ut we are unable		learly indicated.		TBD	TBD
	Q: A:	Sam Struble Sent Thu Nov 14, 2024 at 09:15 am EST Can you please provide a more detailed version of th Rebekah Burns (WTA Architects) Responded Thu Nov Response attached, please review. DOW GARDENS RFI 13 PBA RESPONSE.pdf	e sump piping on drawing M2.00 14, 2024 at 04:48 pm EST Closed Spence Brothers	Burns, Rebekah (W ? It reads that there is ir Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	nformation in the o	ivil drawings, bi	ut we are unable	to find where it is o	learly indicated.			
	Q: A: BP #3 Q:	Sam Struble Sent Thu Nov 14, 2024 at 09:15 am EST Can you please provide a more detailed version of th Rebekah Burns (WTA Architects) Responded Thu Nov Response attached, please review. DOW GARDENS RFI 13 PBA RESPONSE.pdf - Roof Conductor Piping Sam Struble Sent Thu Nov 14, 2024 at 09:13 am EST	e sump piping on drawing M2.00 14, 2024 at 04:48 pm EST Closed Spence Brothers r piping drawn but no overflow p	Burns, Rebekah (W ? It reads that there is ir Johnston, Jordan Moerdyk, Wayne (W Burns, Rebekah (W	nformation in the o	ivil drawings, bi	ut we are unable	to find where it is o	clearly indicated.			



	Subjec	:t	Status Respor Contra		Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
					Moerdyk, Wayne (W Burns, Rebekah (W								
		Sam Struble Sent Thu Nov 14, 2024 at 09:12 am EST On Drawing M2.10, the bridal group area and bathroo	ms east of the lob	oby do not have t	the above ground ven	ting indicated on t	he drawings. Ple	ase indicate the	piping.				
		Rebekah Burns (WTA Architects) Responded Thu Nov Response attached, please review. DOW GARDENS RFI 11 PBA RESPONSE.pdf	14, 2024 at 04:48	9 pm EST									
0.10	BP #1 -	AISC Certification/IAS	Closed Spence	Brothers	Johnston, Jordan	07/24/2024	Sam Struble	08/02/2024	10/09/24			No	Yes (Unknow
		Sam Struble Sent Wed Jul 24, 2024 at 02:06 pm EDT Can these requirements be waived if the contractor fo	ollows the guidelin	nes for fabricatio	n and installation?								
		Jordan Johnston (WTA Architects) Responded Thu Aug The steel fabricators do not need to be certified by A!			uivalent quality contro	ol and inspection p	rogram. For refe	rence, the sectio	n of the spec in qu	estion is below.			
	A:	"A.Fabricator Qualifications: A qualified fabricator tha Steel (AC 172)."	t participates in th	he AISC Quality C	Certification Program a	and is designated	an AISC-Certified	d Plant, Category	STD, or is accredit	ted by the IAS Fab	ricator Inspe	ction Program fo	r Structural
		- Adam Kuczynski RFI - PC RFI 10-mai response.pdf											
0.08		-	Closed Spence	Brothers	Johnston, Jordan	07/23/2024	Sam Struble	08/01/2024	10/09/24			Yes (Unknown)	Yes (Unknow
0.08	BP #1 -	RFI - PC RFI 10-mai response.pdf								ory Soils are for Fc	oundation ba		
0.08	BP #1 - Q: A:	RFI - PC RFI 10-mai response.pdf Foundation Fill Material Sam Struble Sent Tue Jul 23, 2024 at 08:30 am EDT	for Foundations a	are. Section 2.1 s						ory Soils are for Fo	oundation ba		
	BP #1 - <b>Q:</b> <b>A:</b>	RFI - PC RFI 10-mai response.pdf Foundation Fill Material Sam Struble Sent Tue Jul 23, 2024 at 08:30 am EDT Spec 312000 does not specify what Satisfactory Soils Jordan Johnston (WTA Architects) Responded Sun Sep Contractor to Review Geo-technical Report.	for Foundations a	are. Section 2.1 s 2 pm EDT						ory Soils are for Fo	oundation ba		(Unknow
	BP #1 - Q: A: BP #1 -	RFI - PC RFI 10-mai response.pdf Foundation Fill Material Sam Struble Sent Tue Jul 23, 2024 at 08:30 am EDT Spec 312000 does not specify what Satisfactory Soils Jordan Johnston (WTA Architects) Responded Sun Sep Contractor to Review Geo-technical Report. 0.08-Foundation_Fill_WTA Response.pdf	for Foundations a	are. Section 2.1 s 2 pm EDT	ays to refer to other s Struble, Sam	pecs which don't a	ippear to be prov	vided. Please def	ine what Satisfacto	ory Soils are for Fc	bundation ba	ckfill.	(Unknow
	BP #1 - Q: A: BP #1 - Q: A:	RFI - PC RFI 10-mai response.pdf Foundation Fill Material Sam Struble Sent Tue Jul 23, 2024 at 08:30 am EDT Spec 312000 does not specify what Satisfactory Soils Jordan Johnston (WTA Architects) Responded Sun Sep Contractor to Review Geo-technical Report. 0.08-Foundation_Fill_WTA Response.pdf Top of Steel Height Sam Struble Sent Mon Jul 22, 2024 at 02:14 pm EDT	for Foundations a 15, 2024 at 04:12 Closed Spence	are. Section 2.1 s 2 pm EDT 2 Brothers	ays to refer to other s Struble, Sam	pecs which don't a	ippear to be prov	vided. Please def	ine what Satisfacto	ory Soils are for Fc	bundation ba	ckfill.	(Unknow
0.07	BP #1 - Q: A: BP #1 - Q: A:	RFI - PC RFI 10-mai response.pdf Foundation Fill Material Sam Struble Sent Tue Jul 23, 2024 at 08:30 am EDT Spec 312000 does not specify what Satisfactory Soils Jordan Johnston (WTA Architects) Responded Sun Sep Contractor to Review Geo-technical Report. 0.08-Foundation_Fill_WTA Response.pdf Top of Steel Height Sam Struble Sent Mon Jul 22, 2024 at 02:14 pm EDT Please provide top of steel dimension. Sam Struble (Spence Brothers) Responded Tue Jul 23,	for Foundations a 15, 2024 at 04:12 Closed Spence	are. Section 2.1 s 2 pm EDT e Brothers n EDT	ays to refer to other s Struble, Sam	pecs which don't a	ippear to be prov	vided. Please def	ine what Satisfacto	ory Soils are for Fo	bundation ba	ckfill.	(Unknow
0.07	BP #1 - Q: A: BP #1 - Q: A: BP #1 -	RFI - PC RFI 10-mai response.pdf Foundation Fill Material Sam Struble Sent Tue Jul 23, 2024 at 08:30 am EDT Spec 312000 does not specify what Satisfactory Soils Jordan Johnston (WTA Architects) Responded Sun Sep Contractor to Review Geo-technical Report. 0.08-Foundation_Fill_WTA Response.pdf Top of Steel Height Sam Struble Sent Mon Jul 22, 2024 at 02:14 pm EDT Please provide top of steel dimension. Sam Struble (Spence Brothers) Responded Tue Jul 23, Assume TOS is 16'-0".	for Foundations a 15, 2024 at 04:12 Closed Spence 2024 at 08:23 arr Closed Spence	are. Section 2.1 s 2 pm EDT 2 Brothers n EDT 2 Brothers	Struble, Sam (Spe Johnston, Jordan	pecs which don't a	Sam Struble	07/31/2024	ine what Satisfacto	ory Soils are for Fo	bundation ba	ckfill. Yes (Unknown)	(Unknow Yes (Unknow Yes



#	Subje	ct	Status Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Impact
0.05	BP #1	- Concrete Foundation Layout	Closed Spence Brothers	Struble, Sam (Spe	07/22/2024	Sam Struble	07/31/2024	07/23/24			Yes (Unknown)	Yes (Unknown)
	Q:	Sam Struble Sent Mon Jul 22, 2024 at 01:59 pm EDT Please confirm who is responsible for foundation layo	ut.									
	<b>A</b> :	Sam Struble (Spence Brothers) Responded Tue Jul 23, BC 102 Concrete is responsible for foundation layout.	2024 at 08:22 am EDT									
0.04	BP #1	- Temporary Striping/Parking	Closed Spence Brothers	Struble, Sam (Spe	07/22/2024	Sam Struble	07/31/2024	07/23/24			Yes (Unknown)	Yes (Unknown)
	Q:	Sam Struble Sent Mon Jul 22, 2024 at 01:58 pm EDT Who is responsible for the temporary striping and par	king shown on L1?									
	<b>A</b> :	Sam Struble (Spence Brothers) Responded Tue Jul 23, CM is responsible for temporary striping shown on L1										
0.03	BP #1	- Site Electrical	Closed Spence Brothers	Struble, Sam (Spe	07/22/2024	Sam Struble	07/31/2024	07/23/24			Yes (Unknown)	Yes (Unknown)
	Q:	Sam Struble Sent Mon Jul 22, 2024 at 01:56 pm EDT Is BC 101 responsible for deenergizing of light fixture:	s/poles within the vicinity of propos	sed demolition?								
	A:	Sam Struble (Spence Brothers) Responded Tue Jul 23, No, deenergizing will be by others.	2024 at 08:20 am EDT									
0.02	BP #1	- Footing Drain	Closed Spence Brothers	Johnston, Jordan	07/22/2024	Sam Struble	07/31/2024	07/23/24			Yes (Unknown)	Yes (Unknown)
	Q:	Sam Struble Sent Mon Jul 22, 2024 at 12:55 pm EDT Please advise if there are to be foundation drains arou	und the footings. If so, where would	d these connect to the	existing storm sy	stem?						
	A:	Sam Struble (Spence Brothers) Responded Tue Jul 23, Assume no perimeter footing drain tile for bidding pu										
0.01	BP #1	- Tree Removal	Closed Spence Brothers	Struble, Sam (Spe	07/22/2024	Sam Struble	07/31/2024	07/23/24			TBD	Yes (Unknown)
	Q:	Sam Struble Sent Mon Jul 22, 2024 at 12:53 pm EDT At the pre-bid walk through, it was stated that tree re	moval is by owner. Please verify.									
	Α:	Sam Struble (Spence Brothers) Responded Tue Jul 23,										

A: Tree removal shown in the documents is by BC 101 - Excavation & Site Utilities.



100 S Jefferson Ave, Suite 601 Saginaw, Michigan 48607 989 752 8107 : p 989 752 3125 : f

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### ADDENDUM NO. 3

DOW GARDENS WELCOME CENTER MIDLAND, MICHIGAN WTA Project No. 2022022 February 3, 2025

The following clarifications, modifications and/or revisions to the above project shall be considered a part of the original drawings and specifications.

It shall be the responsibility of the contractor to notify their subcontractors and/or suppliers of the clarifications, modifications, and/or revisions included herein.

#### <u>GENERAL</u>

#### ARCHITECTURAL

- Item G1: Refer to 074113 Standing-Seam Metal Roof Panels (reissued)
  - a. Revisions as indicated by highlighted sections.
- Item G2: Refer to 075419 Polyvinyl-Chloride (PVC) Roofing (reissued)
  - a. Revisions as indicated by highlighted sections.

#### ARCHITECTURAL

- Item A1: Sheet A0.01 (re-issued) a. Revised Roof Types. i. R1, R2, R3
- Item A2: Sheet A6.01 (Re-issued) a. Revised Roof Plan.
- Item A3: Sheet A7.10 (re-issued)
  - a. Revised Detail. i. 6/A7.10
- Item A4: Sheet A7.11 (re-issued)
  - a. Revised Details
    - i. 1/A7.11
    - ii. 2/A7.11

WIGEN TINCKNELL ASSOCIATES ARCHITECTS



Addenda No. 3 DOW GARDENS WELCOME CENTER MIDLAND, MICHIGAN February 3, 2025 Item A5: Sheet A7.12 (re-issued) a. Revised Detail. i. 8/A7.12 ii. 9/A7.12

- b. New Detail
  - i. 11/A7.12
  - ii. 12/A7.12

#### MECHANICAL

- MD-1 Refer to Sheet M3.00 (Re Issued)1.Revise underground in floor piping as shown on drawing2. Add in floor zone distribution boxes as shown on drawing
- MD-2 Refer to Sheet M7.08 (Re Issued) 1.Revise in floor zone pump schedule as shown on drawing

END OF ADDENDUM NO. 3

**WTA** Architects

JORDAN JOHNSTON

Cc: JEREMY HUNTOON (SPENCE BROTHERS) MEGAN THOMAS (WTA) PAUL HASELHUHN (WTA) WAYNE MOERDYK (WTA) KATHY WEBER (DOW GARDENS) ELIZABETH LUMBERT (DOW GARDENS) FRANCINE PADGETT (THE HERBER H. AND GRACE A. DOW FOUNDATION) JENÉE VELASQUEZ (THE HERBER H. AND GRACE A. DOW FOUNDATION) RONALD CHAPDELAINE (PBA)

## SECTION 074113 - STANDING-SEAM METAL ROOF PANELS

#### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section Includes:1. Standing-seam metal roof panels.

#### 1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
  - 1. Meet with Owner, Architect, Owner's insurer if applicable, metal panel Installer, metal panel manufacturer's representative, structural-support Installer, and installers whose work interfaces with or affects metal panels, including installers of roof accessories and roof-mounted equipment.
  - 2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  - 3. Review methods and procedures related to metal panel installation, including manufacturer's written instructions.
  - 4. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.
  - 5. Review structural loading limitations of deck during and after roofing.
  - 6. Review flashings, special details, drainage, penetrations, equipment curbs, and condition of other construction that affect metal panels.
  - 7. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
  - 8. Review temporary protection requirements for metal panel systems during and after installation.
  - 9. Review procedures for repair of metal panels damaged after installation.
  - 10. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For standing-seam metal roof panels. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.
- B. Shop Drawings:
  - 1. Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.

- 2. Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of not less than 1-1/2 inches per 12 inches (1:10).
- C. Samples for Initial Selection: For each type of metal panel indicated with factoryapplied color finishes.
  - 1. Include similar Samples of trim and accessories involving color selection.
- D. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.
  - 1. Metal Panels: 12 inches (305 mm) long by actual panel width. Include clips, fasteners, closures, and other metal panel accessories.
- 1.4 INFORMATIONAL SUBMITTALS
  - A. Qualification Data: For Installer.
  - B. Product Test Reports: For standing-seam metal roof panels, for tests performed by a qualified testing agency.
  - C. Field quality-control reports.
  - D. Sample Warranties: For special warranties.
- 1.5 CLOSEOUT SUBMITTALS
  - A. Maintenance Data: For metal panels to include in maintenance manuals.

#### 1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
- B. UL-Certified, Portable Roll-Forming Equipment: UL-certified, portable roll-forming equipment capable of producing metal panels warranted by manufacturer to be the same as factory-formed products. Maintain UL certification of portable roll-forming equipment for duration of work.
- 1.7 MOCKUPS
  - A. Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
    - 1. Build mockup of typical roof area and eave, including fascia, and soffit as shown on Drawings; approximately 12 feet (3.5 m) square by full thickness, including attachments, underlayment, and accessories.

- 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
- 3. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

#### 1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.
- B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.
- C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.
- D. Retain strippable protective covering on metal panels during installation.
- E. Copper Panels: Wear gloves when handling to prevent fingerprints and soiling of surface.

#### 1.9 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed according to manufacturers' written instructions and warranty requirements.

#### 1.10 COORDINATION

- A. Coordinate sizes and locations of roof curbs, equipment supports, and roof penetrations with actual equipment provided.
- B. Coordinate metal panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

#### 1.11 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:

- a. Structural failures including rupturing, cracking, or puncturing.
- b. Deterioration of metals and other materials beyond normal weathering.
- 2. Warranty Period: Two years from date of Substantial Completion.
- 3. Finish Warranty Period: 20 years from date of Substantial Completion.

#### PART 2 - PRODUCTS

#### 2.1 STANDING-SEAM METAL ROOF PANELS

- A. Provide factory-formed metal roof panels designed to be installed by lapping and interconnecting raised side edges of adjacent panels with joint type indicated and mechanically attaching panels to supports using concealed clips in side laps. Include clips, cleats, pressure plates, and accessories required for weathertight installation.
- B. Vertical-Rib, Snap-Joint, Standing-Seam Metal Roof Panels: Formed with vertical ribs at panel edges and intermediate stiffening ribs symmetrically spaced between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of panels, engaging opposite edge of adjacent panels, and snapping panels together.
  - 1. Copper Sheet: ASTM B370, cold-rolled copper sheet, H00 temper.
    - a. Thickness: 20 oz./sq. ft. (0.68 mm thick).

b. Copper Finish: Field-Patinaed, Verdigris.

- 2. Clips: Two-piece floating to accommodate thermal movement.
  - a. 0.0625-inch- (1.587-mm-) thick, stainless steel sheet.
- 3. Panel Coverage: 20 inches (610 mm).
- 4. Panel Height: 1.5 inches (38 mm).

## 2.2 UNDERLAYMENT MATERIALS

- A. Self-Adhering, High-Temperature Sheet: Minimum 30 mils (0.76 mm) thick, consisting of a slip-resistant polyethylene- or polypropylene-film top surface laminated to a layer of butyl- or SBS-modified asphalt adhesive, with release-paper backing; specifically designed to withstand high metal temperatures beneath metal roofing. Provide primer according to written recommendations of underlayment manufacturer.
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Carlisle Coatings & Waterproofing Inc.
    - b. Carlisle Residential; a division of Carlisle Construction Materials.
    - c. Grace Construction Products; W.R. Grace & Co. -- Conn.
    - d. Henry Company.
    - e. Substitutions: See Section 012500 Substitution Procedures.

- 2. Thermal Stability: ASTM D 1970; stable after testing at 240 deg F (116 deg C) or higher.
- 3. Low-Temperature Flexibility: ASTM D 1970; passes after testing at minus 20 deg F (29 deg C) or lower.

#### 2.3 MISCELLANEOUS MATERIALS

- A. Miscellaneous Metal Subframing and Furring: ASTM C645; cold-formed, metalliccoated steel sheet, ASTM A653/A653M, G90 (Z275) hot-dip galvanized coating designation or ASTM A792/A792M, Class AZ50 (Class AZM150) coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
- B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
  - 1. Closures: Provide closures at eaves and ridges, fabricated of same metal as metal panels.
  - 2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
  - 3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefinfoam or closed-cell laminated polyethylene; minimum 1-inch- (25-mm-) thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
- C. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.
- D. Gutters: Formed from same material as roof panels, complete with end pieces, outlet tubes, and other special pieces as required. Fabricate in minimum 96-inch- (2400-mm-) long sections, of size and metal thickness according to SMACNA's "Architectural Sheet Metal Manual." Furnish gutter supports spaced a maximum of 36 inches (914 mm) o.c., fabricated from same metal as gutters. Provide wire ball strainers of compatible metal at outlets. Finish gutters to match roof fascia and rake trim.
- E. Downspouts: Formed from same material as roof panels. Fabricate in 10-foot- (3-m-) long sections, complete with formed elbows and offsets, of size and metal thickness according to SMACNA's "Architectural Sheet Metal Manual." Finish downspouts to match gutters.
- F. Roof Curbs: Fabricated from same material as roof panels, 0.048-inch (1.2-mm) nominal thickness; with bottom of skirt profiled to match roof panel profiles and with welded top box and integral full-length cricket. Fabricate curb subframing of 0.060-inch- (1.52-mm-) nominal thickness, angle-, C-, or Z-shaped steel sheet. Fabricate

curb and subframing to withstand indicated loads of size and height indicated. Finish roof curbs to match metal roof panels.

- 1. Insulate roof curb with 1-inch- (25-mm-) thick, rigid insulation.
- G. Panel Fasteners: Self-tapping screws designed to withstand design loads.
- H. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.
  - 1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch (13 mm) wide and 1/8 inch (3 mm) thick.
  - 2. Joint Sealant: ASTM C920; elastomeric polyurethane or silicone sealant; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended in writing by metal panel manufacturer.
  - 3. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C1311.

#### 2.4 FABRICATION

- A. Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
- B. On-Site Fabrication: Subject to compliance with requirements of this Section, metal panels may be fabricated on-site using UL-certified, portable roll-forming equipment if panels are of same profile and warranted by manufacturer to be equal to factory-formed panels. Fabricate according to equipment manufacturer's written instructions and to comply with details shown.
- C. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.
- D. Fabricate metal panel joints with factory-installed captive gaskets or separator strips that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.
- E. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.
  - 1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
  - 2. Seams for Aluminum: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer. Rivet joints for additional strength.

- 3. Seams for Other Than Aluminum: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.
- 4. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
- 5. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
- 6. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.
  - a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal panel manufacturer for application, but not less than thickness of metal being secured.

## 2.5 FINISHES

- A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in same piece are unacceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- B. Copper Panels and Accessories:
  - 1. Prepatination: Factory prepatinate according to ASTM B882 to convert the copper surface to an inorganic crystalline structure with the appearance and durability of naturally formed patina.

## PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.
  - 1. Examine primary and secondary roof framing to verify that rafters, purlins, angles, channels, and other structural panel support members and anchorages have been installed within alignment tolerances required by metal roof panel manufacturer.
  - 2. Examine solid roof sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal roof panel manufacturer.
    - a. Verify that air- or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.

- B. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

## 3.2 PREPARATION

A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C754 and metal panel manufacturer's written recommendations.

#### 3.3 INSTALLATION OF UNDERLAYMENT

- A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated below, wrinkle free, in shingle fashion to shed water, and with end laps of not less than 6 inches (152 mm) staggered 24 inches (610 mm) between courses. Overlap side edges not less than 3-1/2 inches (90 mm). Extend underlayment into gutter trough. Roll laps with roller. Cover underlayment within 14 days.
  - 1. Apply over the entire roof surface.
- B. Felt Underlayment: Apply at locations indicated below, in shingle fashion to shed water, and with lapped joints of not less than 2 inches (50 mm).
  - 1. Apply over the entire roof surface.
- C. Flashings: Install flashings to cover underlayment to comply with requirements specified in Section 076200 "Sheet Metal Flashing and Trim."

#### 3.4 INSTALLATION OF STANDING-SEAM METAL ROOF PANELS

- A. Install metal panels according to manufacturer's written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to supports unless otherwise indicated. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.
  - 1. Shim or otherwise plumb substrates receiving metal panels.
  - 2. Flash and seal metal panels at perimeter of all openings. Fasten with selftapping screws. Do not begin installation until air- or water-resistive barriers and flashings that will be concealed by metal panels are installed.
  - 3. Install screw fasteners in predrilled holes.
  - 4. Locate and space fastenings in uniform vertical and horizontal alignment.
  - 5. Install flashing and trim as metal panel work proceeds.
  - 6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.

- 7. Align bottoms of metal panels and fasten with blind rivets, bolts, or selftapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
- 8. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.
- B. Fasteners:
  - 1. Copper Panels: Use copper, stainless steel, or hardware-bronze fasteners.
- C. Anchor Clips: Anchor metal roof panels and other components of the Work securely in place, using manufacturer's approved fasteners according to manufacturers' written instructions.
- D. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.
- E. Standing-Seam Metal Roof Panel Installation: Fasten metal roof panels to supports with concealed clips at each standing-seam joint at location, spacing, and with fasteners recommended in writing by manufacturer.
  - 1. Install clips to supports with self-tapping fasteners.
  - 2. Install pressure plates at locations indicated in manufacturer's written installation instructions.
  - 3. Watertight Installation:
    - a. Apply a continuous ribbon of sealant or tape to seal joints of metal panels, using sealant or tape as recommend in writing by manufacturer as needed to make panels watertight.
    - b. Provide sealant or tape between panels and protruding equipment, vents, and accessories.
    - c. At panel splices, nest panels with minimum 6-inch (152-mm) end lap, sealed with sealant and fastened together by interlocking clamping plates.
- F. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
  - 1. Install components required for a complete metal panel system including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal roof panel manufacturers; or, if not indicated, types recommended by metal roof panel manufacturer.
- G. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.
  - 1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to

form hems. Install sheet metal flashing and trim to fit substrates and achieve waterproof and weather-resistant performance.

- 2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet (3 m) with no joints allowed within 24 inches (610 mm) of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently weather resistant and waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with mastic sealant (concealed within joints).
- H. Gutters: Join sections with riveted and soldered or lapped and sealed joints. Attach gutters to eave with gutter hangers spaced not more than 36 inches (914 mm) o.c. using manufacturer's standard fasteners. Provide end closures and seal watertight with sealant. Provide for thermal expansion.
- I. Downspouts: Join sections with telescoping joints. Provide fasteners designed to hold downspouts securely 1 inch (25 mm) away from walls; locate fasteners at top and bottom and at approximately 60 inches (1524 mm) o.c. in between.
  - 1. Provide elbows at base of downspouts to direct water away from building.
  - 2. Connect downspouts to underground drainage system indicated.
- J. Roof Curbs: Install flashing around bases where they meet metal roof panels.
- K. Pipe Flashing: Form flashing around pipe penetration and metal roof panels. Fasten and seal to metal roof panels as recommended by manufacturer.

#### 3.5 ERECTION TOLERANCES

A. Installation Tolerances: Shim and align metal panel units within installed tolerance of 1/4 inch in 20 feet (6 mm in 6 m) on slope and location lines as indicated and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.

## 3.6 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect metal roof panel installation, including accessories. Report results in writing.
- B. Remove and replace applications of metal roof panels where tests and inspections indicate that they do not comply with specified requirements.
- C. Additional tests and inspections, at Contractor's expense, are performed to determine compliance of replaced or additional work with specified requirements.
- D. Prepare test and inspection reports.

## 3.7 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
- B. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 074113

## SECTION 075419 - POLYVINYL-CHLORIDE (PVC) ROOFING

## PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Mechanically fastened, polyvinyl chloride (PVC) roofing system.
  - 2. Roof insulation.
  - 3. Walkways.

## 1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

## 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
  - 1. For insulation and roof system component fasteners, include copy of FM Approvals' RoofNav listing.
- B. Shop Drawings: Include roof plans, sections, details, and attachments to other work, including the following:
  - 1. Layout and thickness of insulation.
  - 2. Base flashings and membrane terminations.
  - 3. Flashing details at penetrations.
  - 4. Tapered insulation thickness and slopes.
  - 5. Roof plan showing orientation of steel roof deck and orientation of roof membrane, fastening spacings, and patterns for mechanically fastened roofing system.
  - 6. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.
  - 7. Tie-in with air barrier.
- C. Samples: For the following products:
  - 1. Roof membrane and flashing, of color required.
  - 2. Walkway pads or rolls, of color required.
- D. Wind Uplift Resistance Submittal: For roofing system, indicating compliance with wind uplift performance requirements.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Manufacturer Certificates:
  - 1. Performance Requirement Certificate: Signed by roof membrane manufacturer, certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
    - a. Submit evidence of compliance with performance requirements.
  - 2. Special Warranty Certificate: Signed by roof membrane manufacturer, certifying that all materials supplied under this Section are acceptable for special warranty.
- B. Product Test Reports: For roof membrane and insulation, tests performed by independent qualified testing agency indicating compliance with specified requirements.
- C. Research reports.

- D. Field Test Reports:
  - 1. Concrete internal relative humidity test reports.
  - 2. Fastener-pullout test results and manufacturer's revised requirements for fastener patterns.
- E. Field quality-control reports.
- F. Sample warranties.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Maintenance data.
- B. Certified statement from existing roof membrane manufacturer stating that existing roof warranty has not been affected by Work performed under this Section.
- 1.6 QUALITY ASSURANCE
  - A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

## 1.7 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
  - I. Warranty Period: 20 years from date of Substantial Completion.
- B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this section, signed by installer, covering Work of this Sections, including all components of roofing system such as roofing pavers, and walkway products, for the following warranty period.
  - 1. Warranty period: Two years from date of Substantial Completion.

## PART 2 - PRODUCTS

#### 2.1 PERFORMANCE REQUIREMENTS

- A. Accelerated Weathering: Roof membrane shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
- B. Impact Resistance: Roof membrane shall resist impact damage when tested according to ASTM D 3746, ASTM D 4272/D 4272M, or the "Resistance to Foot Traffic Test" in FM Approvals 4470.
- C. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.
- D. FM Approvals' RoofNav Listing: Roof membrane, base flashings, and component materials shall comply with requirements in FM Approvals 4450 or FM Approvals 4470 as part of a roofing system, and shall be listed in FM Approvals' RoofNav for Class 1 or noncombustible construction, as applicable. Identify materials with FM Approvals Certification markings.
- E. Solar Reflectance Index: Not less than 78 when calculated according to ASTM E 1980, based on testing identical products by a qualified testing agency.
- F. Fire-Resistance Ratings: Comply with fire-resistance-rated assembly designs indicated. Identify products with appropriate markings of applicable testing agency.

#### 2.2 POLYVINYL CHLORIDE (PVC) ROOFING

- A. PVC Sheet: ASTM D 4434/D 4434M, Type III, fabric reinforced.
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Carlisle SynTec Incorporated.
    - b. Duro-Last Roofing, Inc.
    - c. Flex Membrane International Corp.
    - d. GAF.
    - e. Johns Manville; a Berkshire Hathaway company.
    - f. Substitutions: See Section 012500 Substitution Procedures.
  - 2. Membrane Thickness: 60 mils (1.5 mm).
  - 3. Exposed Face Color: White.

## 2.3 AUXILIARY ROOFING MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with other roofing components.
  - 1. Adhesives and sealants shall comply with the following limits for VOC content:
    - a. Plastic Foam Adhesives: 50 g/L.
    - b. Gypsum Board and Panel Adhesives: 50 g/L.
    - c. Multipurpose Construction Adhesives: 70 g/L.
    - d. Fiberglass Adhesives: 80 g/L.
    - e. Contact Adhesives: 80 g/L.
    - f. PVC Welding Compounds: 510 g/L.
    - g. Other Adhesives: 250 g/L.
    - h. Single-Ply Roof Membrane Sealants: 450 g/L.
    - i. Nonmembrane Roof Sealants: 300 g/L.
    - j. Sealant Primers for Nonporous Substrates: 250 g/L.
    - k. Sealant Primers for Porous Substrates: 775 g/L.
- B. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet.
- C. Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.
- D. Water-Based, Fabric-Backed Membrane Adhesive: Roofing system manufacturer's standard water-based, cold-applied adhesive formulated for compatibility and use with fabric-backed membrane roofing.
- E. Metal Termination Bars: Manufacturer's standard, predrilled stainless steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm) thick; with anchors.
- F. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roofing components to substrate, and acceptable to roofing system manufacturer.
- G. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.

#### 2.4 SUBSTRATE BOARDS

- A. Substrate Board: UL 790, reinforced gypsum panel with moisture resistant core and coated glass mat facers.
  - Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Georgia-Pacific Gypsum LLC.
    - b. Substitutions: See Section 012500 Substitution Procedures.

# 2. Thickness: 1/2 inch (19 mm).

- 2.5 Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening substrate board to roof deck.
- 2.6 ROOF INSULATION
  - A. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1, Grade 2, felt or glass-fiber mat facer on both major surfaces.
  - B. Tapered Insulation: Provide factory-tapered insulation boards.
    - 1. Material: Match roof insulation.
    - 2. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated.

## 2.7 INSULATION ACCESSORIES

- A. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roof insulation and cover boards to substrate, and acceptable to roofing system manufacturer.
- B. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation to substrate or to another insulation layer as follows:
  - 1. Modified asphaltic, asbestos-free, cold-applied adhesive.
  - 2. Bead-applied, low-rise, one-component or multicomponent urethane adhesive.
  - 3. Full-spread, spray-applied, low-rise, two-component urethane adhesive.
  - 4. Adhesives and sealants shall comply with the following limits for VOC content:
    - a. Plastic Foam Adhesives: 50 g/L.
    - b. Gypsum Board and Panel Adhesives: 50 g/L.
    - c. Multipurpose Construction Adhesives: 70 g/L.
    - d. Fiberglass Adhesives: 80 g/L.
    - e. Contact Adhesives: 80 g/L.
    - f. PVC Welding Compounds: 510 g/L.
    - g. Other Adhesives: 250 g/L.
    - h. Single-Ply Roof Membrane Sealants: 450 g/L.
    - i. Nonmembrane Roof Sealants: 300 g/L.
    - j. Sealant Primers for Nonporous Substrates: 250 g/L.
    - k. Sealant Primers for Porous Substrates: 775 g/L.

# 2.8 VAPOR BARRIER

- A. Vapor Barrier: ASTM D5147, Air and Vapor Barrier used for direct application over metal decks.
  - 1. Basis of design: Carlisle Syntec Systems, VapAir Seal MD
    - a. Substitutions: See Section 012500 Substitution Procedures.
      - b. Tensile Strength: 250 psi, ASTM D412
      - c. Elongation: 330%, ASTM D1970
      - d. Air Permeance: 0.000 L\*m<sup>2</sup>@75 Pa, ASTM E2178
      - e. Peel Adhesion: 14lb, ASTM D903
      - f. Water Vapor Permeability: .03 perms, ASTM E96 D1970

## g. Puncture Resistance: 54.6 lb, ASTM D5602

## 2.9 WALKWAYS

- A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway rolls,
  - 1. Products: Subject to compliance, provide Plastex; Crossgrip PVC two layer walkway matting.
    - a. Height: 9/16 inch (14 mm) thick.
    - b. Width: 36 inches (914 mm).
    - c. Color: Light grey.

#### PART 3 - EXECUTION

- 3.1 EXAMINATION
  - A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.
    - 1. Verify that surface plane flatness and fastening of steel roof deck complies with requirements in Section 053100 "Steel Decking."

#### 3.2 PREPARATION

- A. Perform fastener-pullout tests according to roof system manufacturer's written instructions.
  - 1. Submit test result within 24 hours of performing tests.
    - a. Include manufacturer's requirements for any revision to previously submitted fastener patterns required to achieve specified wind uplift requirements.
- 3.3 ROOFING INSTALLATION, GENERAL
  - A. Install roofing system according to roofing system manufacturer's written instructions, FM Approvals' RoofNav assembly requirements, and FM Global Property Loss Prevention Data Sheet 1-29.
  - B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

#### 3.4 INSULATION INSTALLATION

- A. Coordinate installing roofing system components, so insulation is not exposed to precipitation or left exposed at end of workday.
- B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.
- C. Installation Over Metal Decking:
  - 1. Install base layer of insulation with joints staggered not less than 24 inches (610 mm) in adjacent rows, end joints staggered not less than 12 inches (305 mm) in adjacent rows, and with long joints continuous at right angle to flutes of decking.
    - a. Locate end joints over crests of decking.

- b. Where installing composite and noncomposite insulation in two or more layers, install noncomposite board insulation for bottom layer and intermediate layers, if applicable, and install composite board insulation for top layer.
- c. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
- d. Make joints between adjacent insulation boards not more than 1/4 inch (6 mm) in width.
- e. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches (610 mm).
  - 1) Trim insulation so that water flow is unrestricted.
- f. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
- g. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.
- h. Loosely lay base layer of insulation units over substrate.
- i. Mechanically attach base layer of insulation using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to metal decks.
  - 1) Fasten insulation according to requirements in FM Approvals' RoofNav for specified Windstorm Resistance Classification.
  - 2) Fasten insulation to resist specified uplift pressure at corners, perimeter, and field of roof.
- 2. Install upper layers of insulation and tapered insulation with joints of each layer offset not less than 12 inches (305 mm) from previous layer of insulation.
  - a. Staggered end joints within each layer not less than 24 inches (610 mm) in adjacent rows.
  - b. Install with long joints continuous and with end joints staggered not less than 12 inches (305 mm) in adjacent rows.
  - c. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
  - d. Make joints between adjacent insulation boards not more than 1/4 inch (6 mm) in width.
  - e. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches (610 mm).
  - f. Trim insulation so that water flow is unrestricted.
  - g. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
  - h. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.
  - i. Loosely lay each layer of insulation units over substrate.
  - j. Adhere each layer of insulation to substrate using adhesive according to FM Approvals' RoofNav assembly requirements and FM Global Property Loss Prevention Data Sheet 1-29 for specified Windstorm Resistance Classification, as follows:
    - 1) Set each layer of insulation in a solid mopping of hot roofing asphalt, applied within plus or minus 25 deg F (14 deg C) of equiviscous temperature.
    - 2) Set each layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.

3) Set each layer of insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

## 3.5 MECHANICALLY FASTENED ROOFING INSTALLATION

- A. Mechanically fasten roof membrane over area to receive roofing according to roofing system manufacturer's written instructions.
- B. Unroll roof membrane and allow to relax before installing.
- C. For in-splice attachment, install roof membrane with long dimension perpendicular to steel roof deck flutes.
- D. Start installation of roofing in presence of roofing system manufacturer's technical personnel.
- E. Accurately align roof membrane and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- F. Mechanically fasten or adhere roof membrane securely at terminations, penetrations, and perimeter of roofing.
- G. Apply roof membrane with side laps shingled with slope of roof deck where possible.
- H. In-Seam Attachment: Secure one edge of PVC sheet using fastening plates or metal battens centered within seam, and mechanically fasten PVC sheet to roof deck.
- I. Seams: Clean seam areas, overlap roof membrane, and hot-air weld side and end laps of roof membrane and sheet flashings to ensure a watertight seam installation.
  - 1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of roof membrane and sheet flashings.
  - 2. Verify field strength of seams a minimum of twice daily, and repair seam sample areas.
  - 3. Repair tears, voids, and lapped seams in roof membrane that do not comply with requirements.
- J. Spread sealant bed over deck-drain flange at roof drains, and securely seal roof membrane in place with clamping ring.

## 3.6 BASE FLASHING INSTALLATION

- A. Install sheet flashings and preformed flashing accessories and adhere to substrates according to roofing system manufacturer's written instructions.
- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

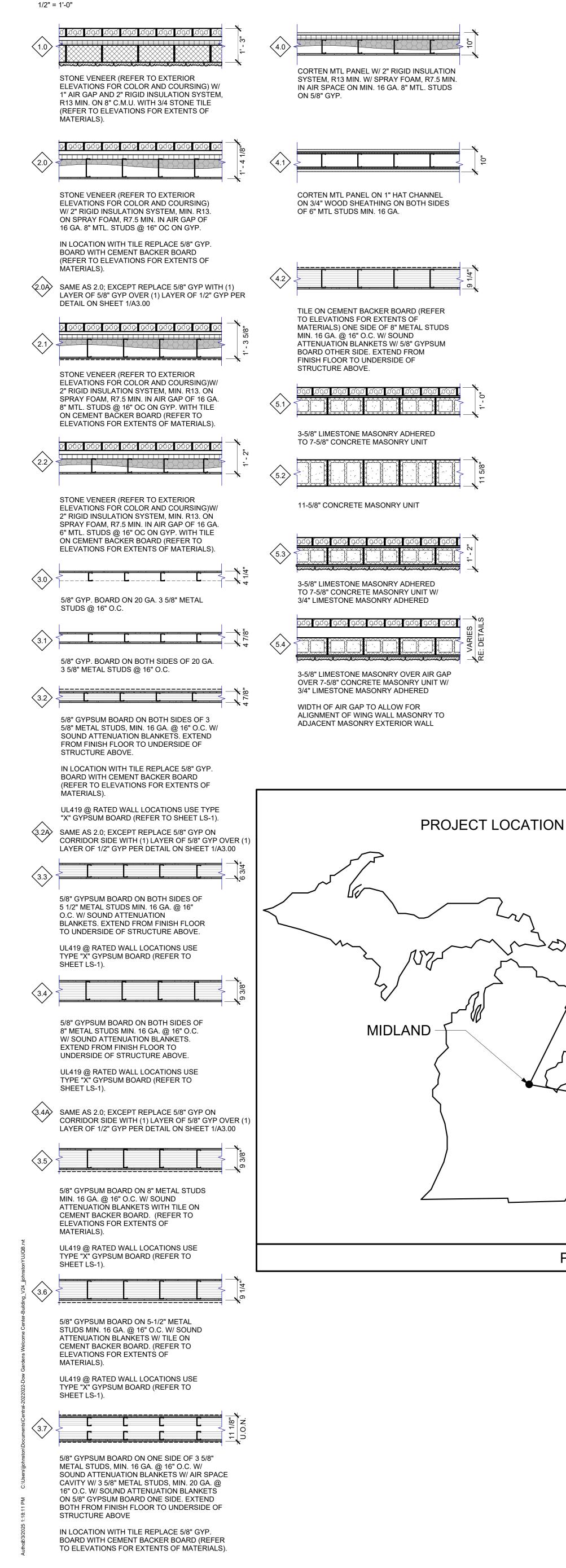
## 3.7 WALKWAY INSTALLATION

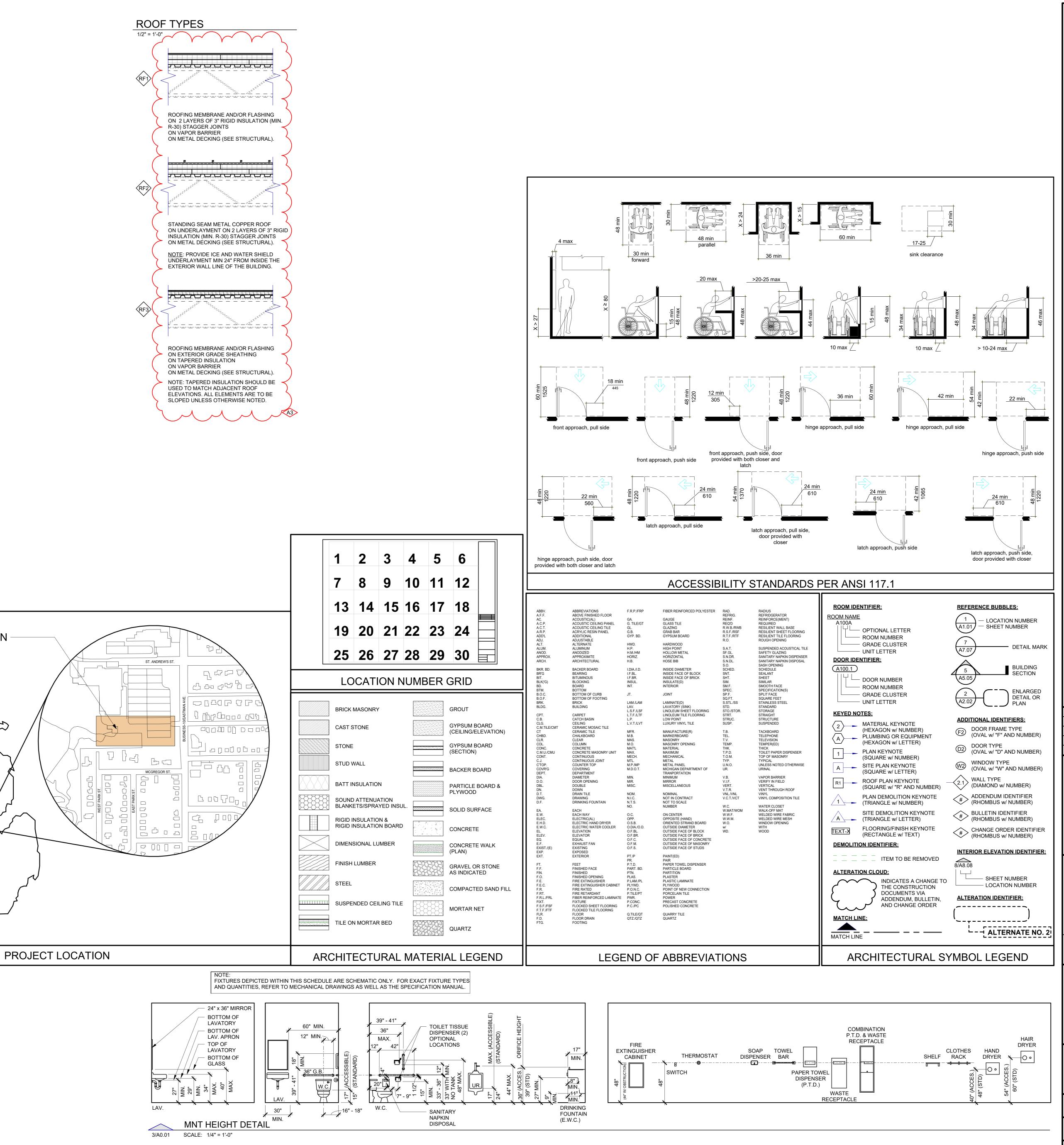
- A. Flexible Walkways: Install walkway products according to manufacturer's written instructions.
  - 1. Install flexible walkways at the following locations:
    - a. Locations indicated on Drawings.

# 3.8 PROTECTING AND CLEANING

- A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing system for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

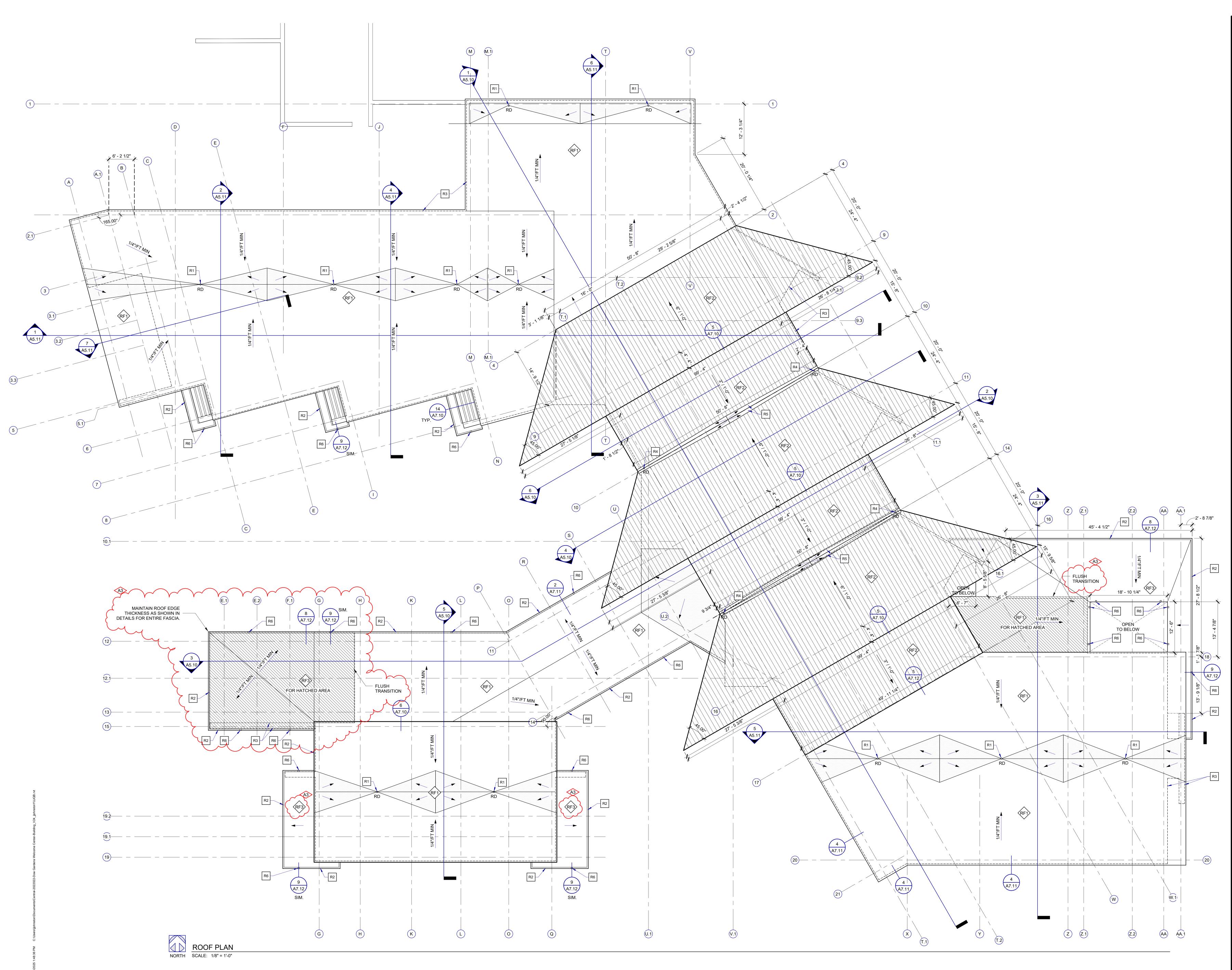
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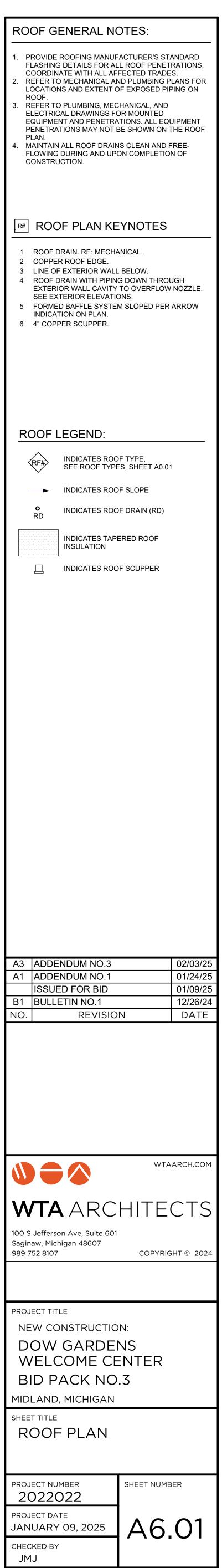


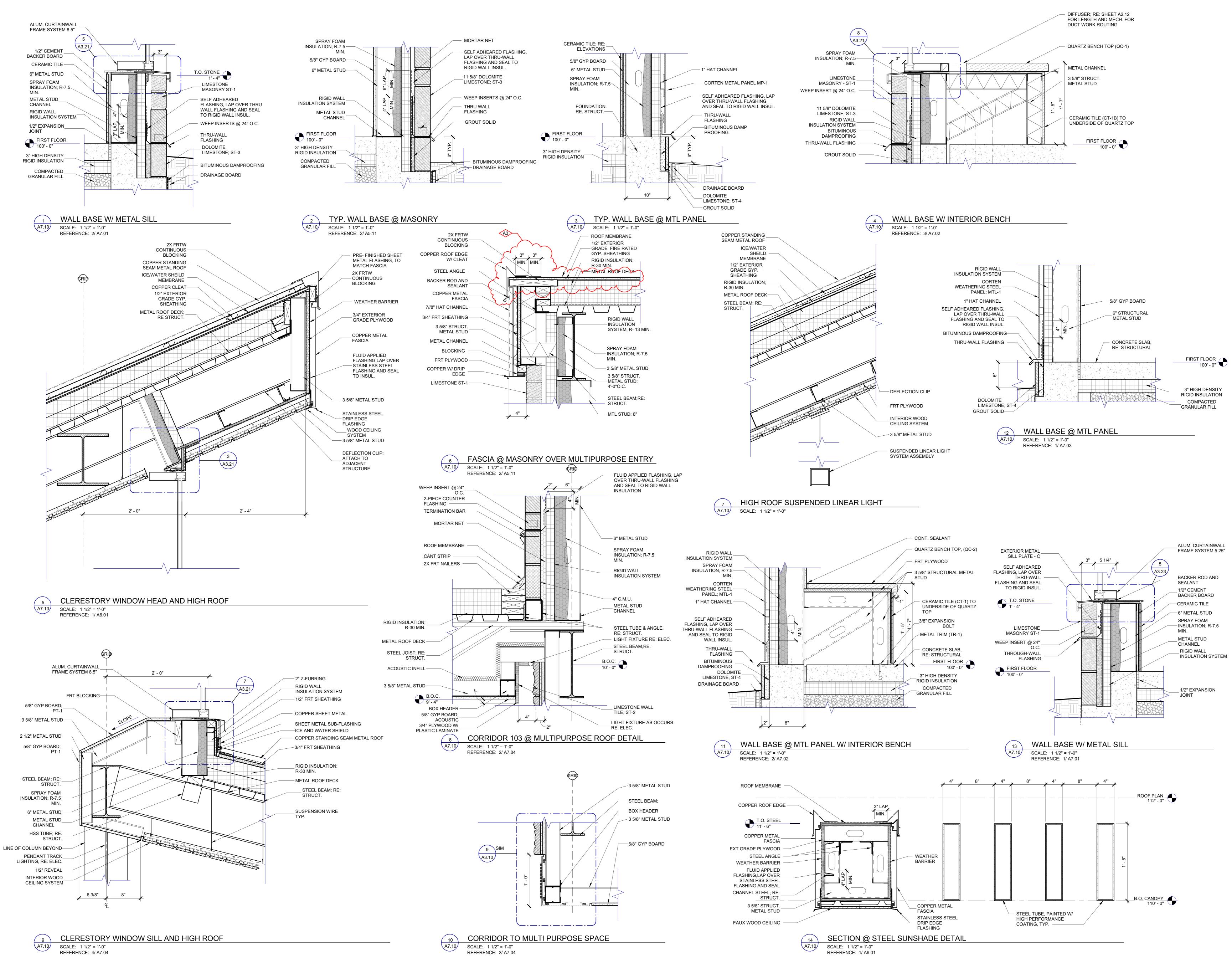


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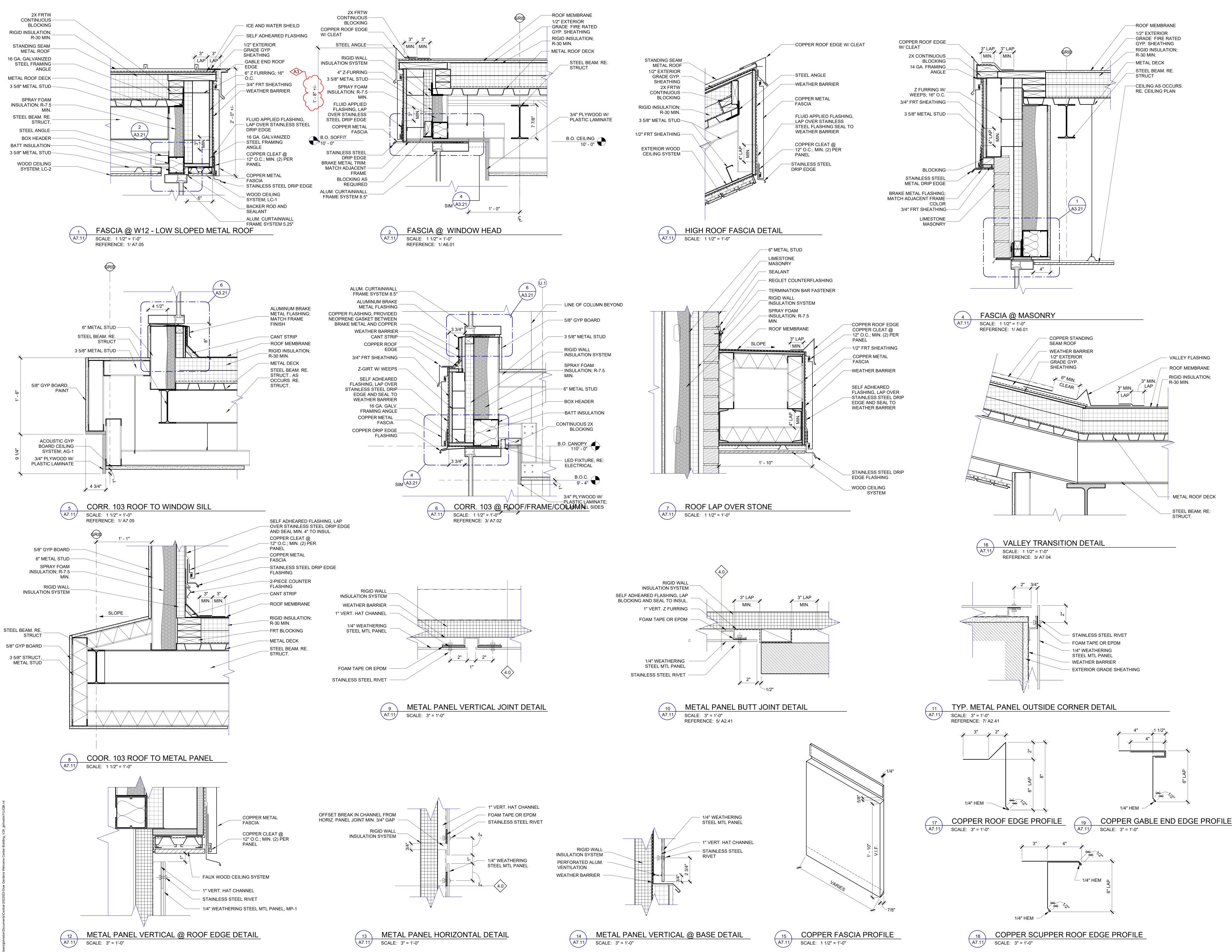






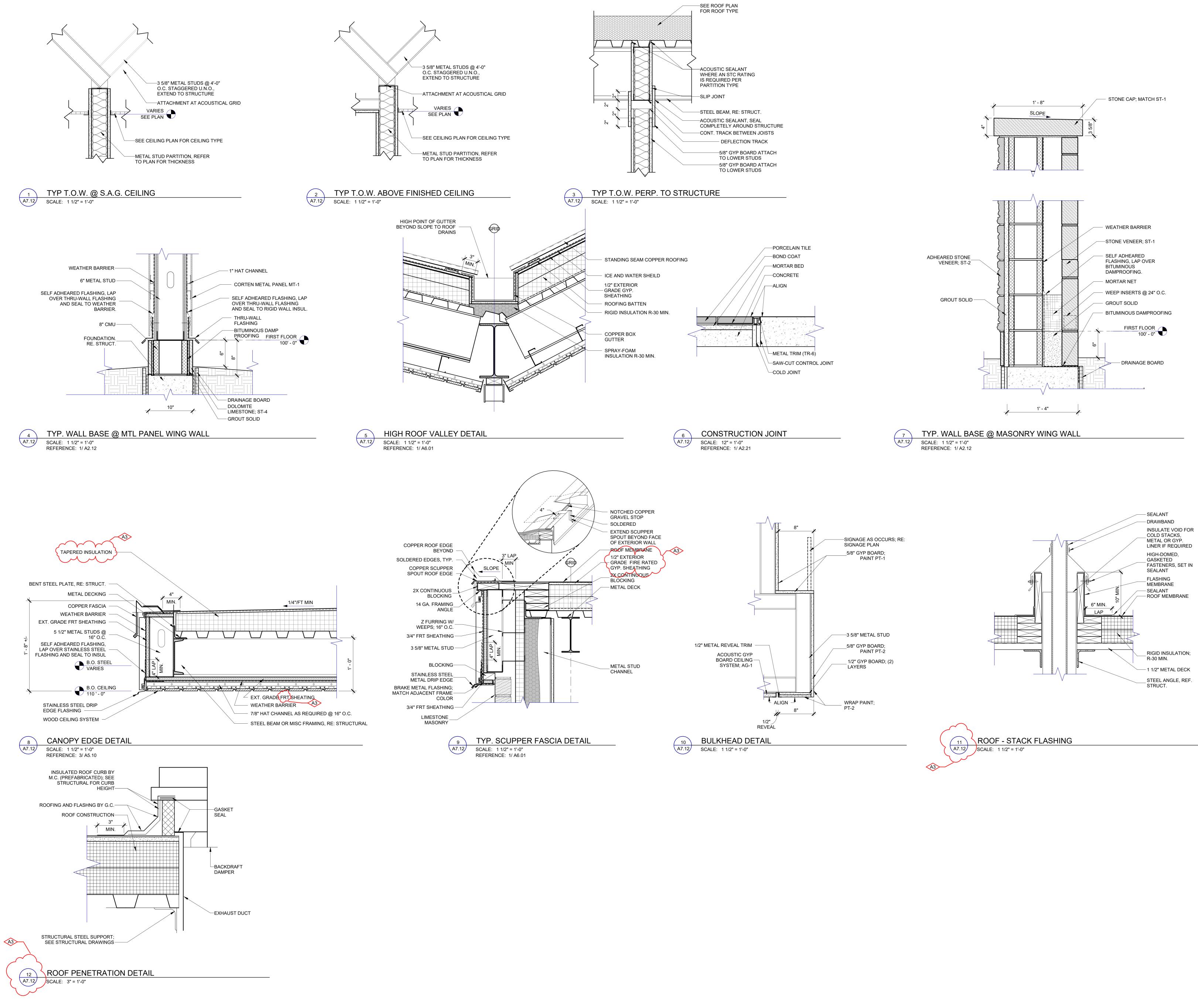
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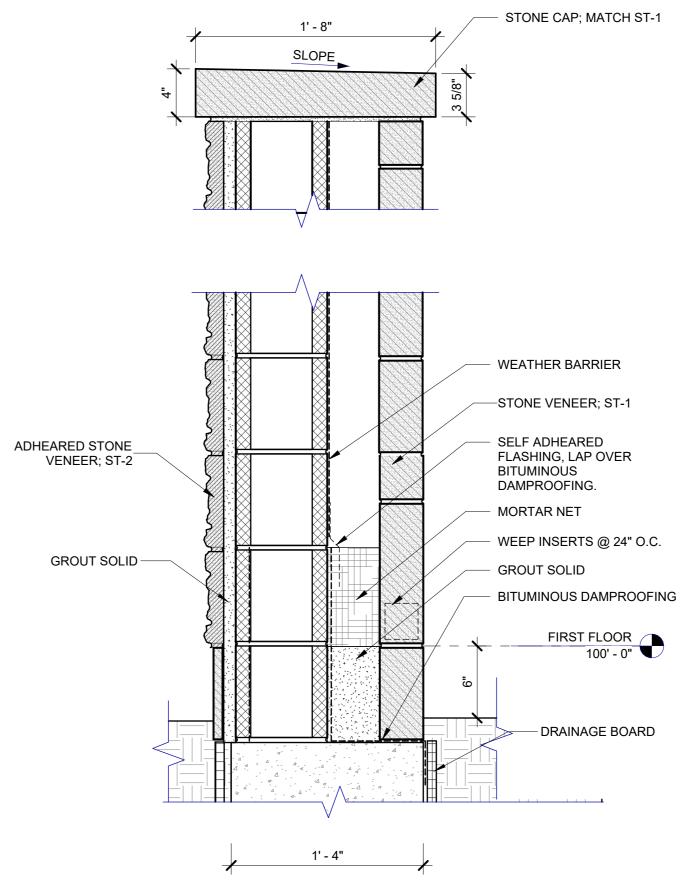
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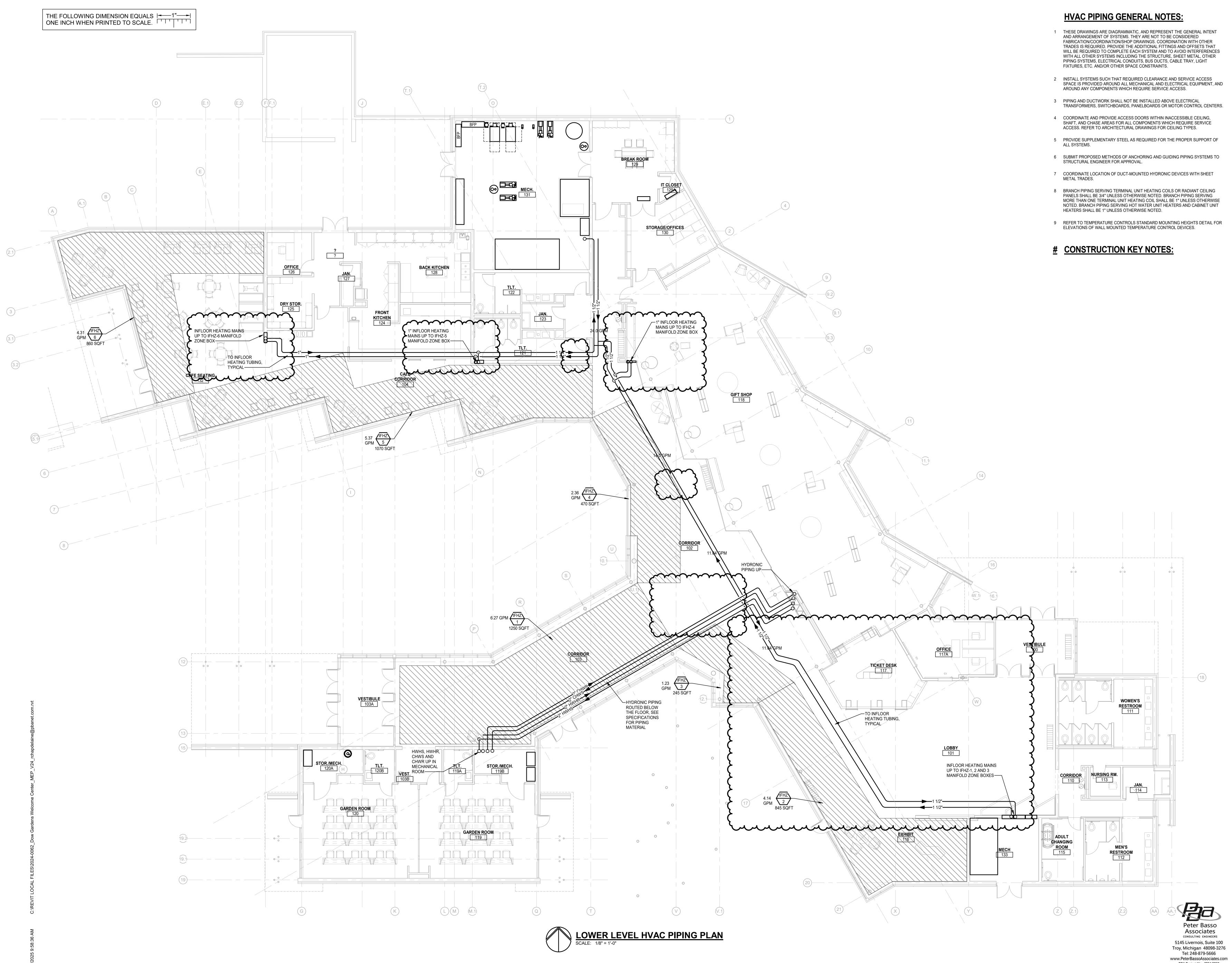






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PBA Project No.: 2024.0062

MANUFACTURER	VALVE SIZE	FLOW	RANGE	differential Reading at Taf	PRESSURE	PRESSU	ERMANENT JRE LOSS FULL OPEN)	MODEL NUMBER	keyed note
		GI	PM	INCHES	5 W.G.	FT.	HEAD		
		MINIMUM	MAXIMUM	at minimum GPM	AT MAXIMUM GPM	at minimum GPM	at Maximum GPM		
FLOW DESIGN ACCUSETTER	1/2	0.4	0.9	22	109	0.7	3.8	UA	
	3/4	0.9	2.4	23	148	0.5	2.9	UA	
	3/4	2.2	3.4	26	62	0.5	1.2	UA	
	1	3.4	6.6	40	150	0.8	2.8	UA	
	1 1/4	5.6	12	23	105	0.2	1.1	UA	
	1 1/2	9.5	20	22	95	0.6	2.7	UA	
	2	20	44	21	99	0.2	1	UA	
	2 1/2	40	80	25	77	0.2	0.6	250L	
	3	60 120	130 260	14 16	64 75	0.1	0.5	300L 400L	
PRO HYDRONIC	4 3/4	0.3	260	7	75 147	0.2	1.3	400L CBV075UL	
SPECIALTIES	1	2.5	5.5	10	147	0.1	1.3	CBV100	
	1 1/4	5.5	9	10	145	0.1	1.2	CBV100 CBV125	
	1 1/2	9	16.5	10	143	0.1	1.2	CBV123	
	2	16.5	34.5	10	146	0.1	1.3	CBV200	
	2 1/2	35	57	12.5	139	0.1	1.2	CBVF250L	
	3	57	100	5.2	149	0.1	1.3	CBVF300L	
	4	100	220	5.1	147	0.1	1.3	CBVF400L	
NEXUS	1/2	0.4	1.5	2.6	36	0.2	2.3	ХВ	
	3/4	1.5	3.4	5.1	26	0.3	1.7	ХВ	
	1	2.9	7	4.3	25	0.1	0.7	ХВ	
HCi	1/2	0.5	0.5	5.4	8.1	0.3	0.4	TB-B VEN-4	
	3/4	0.5	1.5	3.2	26.7	0.1	0.7	TB-B VEN-6	
	3/4	1.5	2	8.8	16.3	0.4	0.7	TB-B VEN-7.5	
	1	2	3.9	5.3	20.8	0.2	0.7	TB-C VEN-10	
	1	3.9	5.5	5	10	0.2	0.3	TB-C VEN-14.5	
	1 1/4	5.5	17	2.7	25.3	0.1	0.6	TB-D VEN-19	
	2	17	31.4	8.9	30.4	0.3	0.7	TB-F VEN-25	
	2 1/2	31	57	17	57.5	0.1	0.3	TB-G LOW B-1.234	
	3	57	100	24.2	74.3	0.2	0.4	TB-H LOW B-1.533	
GRISWOLD	4	100	220	4.6	21.9	0.1	0.2	TB-I B-3.015	
GNISWOLD	3/4L	0.4	0.8	5	32	0.1	2.4	QS2 (CV 0.8)	
	3/4L	0.7	1.9	5	45	0.1	2.9	QS2 (CV 1.7)	
	3/4L	1.3	3.8	5.2	45	0.1	2.8	QS2 (CV 3.5)	
	3/4L 1	2.6	8.4 3.6	5.2 5.2	54 40	0.1	2.9 2.8	QS2 (CV 7.5) QS3 (CV 3.3)	
	1	2.6	6.6	5.2	34	0.1	2.8	QS3 (CV 3.3) QS3 (CV 7.0)	
	1	4.1	12.3	5.2	47	0.1	2.1	QS3 (CV 11.35)	
	1 1/4	3.4	6.9	5	19	0.1	1.4	QS4 (CV 9.0)	
	1 1/4	6.8	20	5	43	0.1	2.4	QS4 (CV 19.8)	
	1 1/2	6.8	20	5	43	0.1	2.6	QS5 (CV 19.2)	
	1 1/2	12.3	23	5	17	0.1	1	QS5 (CV 36)	
	1 1/2	12.3	29	5	28	0.1	0.8	QS5 (CV 45)	
	2	20.3	40	5	19	0.1	1	QS6 (CV 61)	
	2	20.3	44	5	23	0.1	0.8	QS6 (CV 75)	
	2 1/2	39	68	20	61	0.1	0.6	3QFM (CV 135)	
	3	66	117	20	40	0.1	0.8	3QFN (CV 201)	
	4	116	230	20	78	0.1	0.7	3QFP (CV 417)	
VICTAULIC	1/2	0.1	0.5	12	240	0.1	1.5	S/786	
	3/4	0.5	2.5	12	240	0.3	1.4	S/786	
	1	2.5	5.5	12	240	0.7	1.4	S/786	
	1 1/4	5.5	9	12	240	0.5	1.4	S/786	
	1 1/2	9	16.5	12	240	0.8	1.4	S/786	
	2	16.5	34.5	12	240	0.5	1.3	S/786	
	2 1/2	35	57	12	240	0.2	1.3	S/788	
	3	57	100	12	240	0.7	1.3	S/788	

GENERAL NOTES: 1. SELECTED VALVE SHALL MATCH PIPE SIZE UNLESS REQUIRED FLOW RATE IS BELOW THE FLOW RANGE FOR THAT SIZE VALVE. PROVIDE REDUCERS AS REQUIRED IF VALVE SIZE IS LESS THAN PIPE SIZE.

2. VALVE FLOW RANGES AND PRESSURE DROPS BASED ON WATER.

								PU	MP SCI	HEDULE										
UNIT SYSTEM LOCATION TYPE IDENTIFICATION SERVED	LOCATION	COUPLING TYPE	WATERFLOW GPM	Fluid Type	COLDEST SYSTEM OPERATING	PUMP HEAD FT.	OVERLOAD GPM	MINIMUM EFFICIENCY %	MOTOR		MODULATION/ CONTROL TYPE	ELECTRICAL				MODEL NUMBER	KEYED NOTES			
							TEMP. 'F FOR PUMP SELECTION				BHP	HP	RPM		VOLTS	PHASE	SCCR KA (NOTE 4)	OPTIONS/ ACCESSORIES		
CP-B1	BOILER	MECH ROOM	IN-LINE	CLOSE	60	WATER	70 °F	20	NON- OVERLOADING	69.8	0.402	3/4	1800	AUTO	208	3			SERIES E-90 2AAC	PRIMARY
CP-B2	BOILER	MECH ROOM	IN-LINE	CLOSE	60	WATER	70 °F	20	NON- OVERLOADING	69.8	0.402	3/4	1800	AUTO	208	3			SERIES E-90 2AAC	PRIMARY
CP-1	HWHS	MECH ROOM	CENTRIFUGAL	FLEXIBLE	75	WATER	70 °F	45	NON- OVERLOADING	71.1	1.2	2	1800	VFC	208	3			SERIES 1510 2AD-ES	PRIMARY
CP-2	HWHS	MECH ROOM	CENTRIFUGAL	FLEXIBLE	75	WATER	70 °F	45	NON- OVERLOADING	71.1	1.2	2	1800	VFC	208	3			SERIES 1510 2AD-ES	BACKUP
CP-3	CHWS	MECH ROOM	CENTRIFUGAL	FLEXIBLE	175	30% P	42 °F	115	NON- OVERLOADING	62.3	8.37	15	1800	AUTO	208	3			SERIES 1510 2GB	PRIMARY
CP-4	CHWS	MECH ROOM	CENTRIFUGAL	FLEXIBLE	175	30% P	42 °F	115	NON- OVERLOADING	62.3	8.37	15	1800	AUTO	208	3			SERIES 1510 2GB	BACKUP
CP-5	DWH-1 HWR	MECH ROOM	IN-LINE	CLOSE	5	WATER	40 °F	15				1/12	2650	AUTO	120	1			PL-30B	DWH-1
CP-6	DWH-1 HHWR	MECH ROOM	IN-LINE	CLOSE	2	WATER	40 °F	5				1/12	2650	AUTO	120	1			PL-30B	DWH-1

GENERAL NOTES: 1. REFER TO SCHEDULES GENERAL NOTES.

2. MODEL NUMBER ARE BELL & GOSSETT UNLESS OTHERWISE NOTED. 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL. 4. CONTROLLER (E.G. VARIABLE FREQUENCY CONTROLLER, MOTOR STARTER) FOR SPECIFIED EQUIPMENT SHALL BE MANUFACTURED AND MARKED PER NEC WITH A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED.

AREA I.D.	ZONE #	MANIFOLD #	RADIANT LOAD (MBH)	HEATED SURFACE AREA	FLOW (GPM)	TUBE DIA.	# CIRCUITS.	MAXIMUM CIRCUIT LENGTH FT	TUBE SPACING	SUPPLY WATER TEMP	REMARK
ENTRANCE	SM-1A	1A	193.2.	1171 SQFT	14.0	3/4"	6	300	9"	120 DEG F	NOTE 3
ENTRANCE	SM-1B	1B	240.5	1458 SQFT	17.4	3/4"	7	300	9"	120 DEG F	NOTE 3
ENTRANCE	SM-1C	1C	38.4	233 SQFT	2.8	3/4"	1	300	9"	120 DEG F	NOTE 3
ENTRANCE	SM-2A	2A	53.6	325 SQFT	3.9	3/4"	2	300	9"	120 DEG F	NOTE 3
ENTRANCE	SM-2B	2B	24.4	148 SQFT	1.8	3/4"	1	300	9"	120 DEG F	NOTE 3
ENTRANCE	SM-3A	3A	51.5	312 SQFT	3.73	3/4"	2	300	9"	120 DEG F	NOTE 3
ENTRANCE	SM-3B	3B	161.2	977 SQFT	11.7	3/4"	5	300	9"	120 DEG F	NOTE 3
ENTRANCE	SM-3C	3C	22.9	139 SQFT	1.65	3/4"	1	300	9"	120 DEG F	NOTE 3



5

								PU	IMP SC	HEDULE										
UNIT IDENTIFICATION	SYSTEM SERVED	LOCATION	TYPE	COUPLING TYPE	WATERFLOW GPM		SYSTEM OPERATING		OVERLOAD GPM	MINIMUM EFFICIENCY %		MOTOR		MODULATION/ CONTROL TYPE		ELE	CTRICAL		MODEL NUMBER	KEYED NOTES
							TEMP. "F FOR PUMP SELECTION				BHP	HP	RPM		VOLTS	PHASE	SCCR KA (NOTE 4)	OPTIONS/ ACCESSORIES		
								~~~~~									,			
IFCP-1	IN FLOOR HEATING	BOILER ROOM	INLINE	CLOSE	24.0	WATER	70 <b>'</b> F	32	NON- OVERLOADING			2/5	3250	AUTO	120	1	1	🖌	PL-55	1
GENERAL NOTES:								·······	)				$\cdots$							

<u>GENERAL NOTES:</u> 1. REFER TO SCHEDULES GENERAL NOTES.

2. MODEL NUMBER ARE BELL & GOSSETT UNLESS OTHERWISE NOTED.
 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.
 4. CONTROLLER (E.G. VARIABLE FREQUENCY CONTROLLER, MOTOR STARTER) FOR SPECIFIED EQUIPMENT SHALL BE MANUFACTURED AND MARKED PER NEC WITH A MINIMUM SHORT CIRCUIT CURRENT RATING AS INDICATED.

<u>KEYED NOTES:</u> 1. PUMP PART OF INFLOOR HEATING MIXING STATION SEE SCHEDULE ABOVE AND PIPING DIAGRHAM

					HO	I WA	VIEK I	PROP	ELLE		JNIT HEA	IER SCH	EDUL	E				
UNIT IDENTIFICATION	CAPACITY MBH	AIRFLOW CFM	LEAVING AIR TEMPERATURE	۶ <i>۱</i>	AN			WATER			CONTROL VALVE W.P.D. FT. HEAD	MODULATION/ CONTROL TYPE		ELE	CTRICAL		MODEL NUMBER	KEYED NOTES
		0. m	F	HP	RPM	FLOW GPM	FLUID TYPE	E.W.T. F	L.W.T. F	MAXIMUM W.P.D. FT. HEAD			VOLTS	PHASE	SCCR KA	OPTIONS/ ACCESSORIES		
UH-133	52.8	2900	77.0	1/4	1075	2.6	w	130	90	0.1	5	AUTO	120	1		В	RH-165	1
UH-131A	52.8	2900	77.0	1/4	1075	2.6	w	130	90	0.1	5	AUTO	120	1		В	RH-165	1
UH-131B	52.8	2900	77.0	1/4	1075	2.6	w	130	90	0.1	5	AUTO	120	1		В	RH-165	1

KEYED NOTES: 1. PROVIDE UNIT HEATER WITH WALL MOUNTED VARIABLE SPEED CONTROLLER

RETURN INLETS AND CIRCUIT BALANCING VALVES ON THE SUPPLY DISTRIBUTION CIRCUIT SIDE BY THE SAME MANUFACTURER.

PROVIDE COMPLETE CONTROL SYSTEM TO SENSE SIDEWALK SURFACE TEMPERATURE, CIRCUIT SUPPLY AND RETURN WATER TEMPERATURE. . CIRCUIT LENGTH ARE ESTIMATED, CONTRACTOR TO PROVIDE LENGTH REQUIRED IN THE FIELD TO FIT CONDITIONS . CAPACITIES BASED ON 40% PROPYLENE GLYCOL SOLUTION

		RADIAN	T IN-FL	OOR H	EATING	SCHED	OULE			
ZONE #	RADIANT LOAD (MBH)	HEATED SURFACE AREA	FLOW (GPM)	TUBE DIA.	# CIRCUITS.	MAXIMUM CIRCUIT LENGTH FT	TUBE SPACING	EWT F	LWT F	CONTROL VALVE
RF–1	31.2	1250 SQFT	6.26	5/8"	5	300	12"	119	109	3-WAY
RF-2	20.6	845 SQFT	4.14	5/8"	3	300	12"	119	109	3-WAY
RF-3	6.1	245 SQFT	1.23	5/8"	1	300	12"	119	109	3-WAY
RF-4	11.7	470 SQFT	2.36	5/8"	2	300	12"	119	109	3-WAY
RF–5	26.7	1070 SQFT	5.37	5/8"	4	300	12"	119	109	3-WAY
RF-6	21.5	860 SQFT	4.31	5/8"	3	300	12"	119	109	3-WAY

1. HEATING CAPACITIES BASED ON 6" CONCRETE FLOOR.

2. RADIANT LOAD IS THE BTU/H/SF CARRIED BY THE RADIANT SYSTEM, INCLUDING DOWNWARD LOSSES BUT EXCLUDING ANY SUPPLEMENTAL HEAT.

TUBING SHALL HAVE FACTORY MANUFACTURED OXYGEN BARRIER AND MEET ASTM F876 STANDARDS.
 PROVIDE COMPLETE BRASS MANIFOLD ASSEMBLY WITH BLEEDER AND FILL CONNECTIONS, FULL PORT BALL VALVES ON THE

RETURN INLETS AND CIRCUIT BALANCING VALVES ON THE SUPPLY DISTRIBUTION CIRCUIT SIDE BY THE SAME

MANUFACTURER. 5. PROVIDE COMPLETE CONTROL SYSTEM TO SENSE FLOORING SURFACE TEMPERATURE, CIRCUIT SUPPLY AND RETURN WATER TEMPERATURE.

6. PROVIDE AND INSTALL WHERE PRACTICAL A REVERSE RETURN TUBING LAYOUT DESIGN TO DISTRIBUTE HEAT MORE EVENLY

THROUGHOUT THE THERMAL MASS.
CIRCUIT LENGTH ARE ESTIMATED, CONTRACTOR TO PROVIDE LENGTH REQUIRED IN THE FIELD TO FIT CONDITIONS
CAPACITIES BASE ON WATER

9. PROVIDE RADIANT FLOOR MIXING STATION WITH ALL CONTROLS, PUMPS, SENSORS AND PIPING LOCATED IN BOILER ROOM,

PRO PAK MODEL 1.5RFMM 10. PROVIDE INFLOOR ZONE VALVE BOX WITH CONTROL VALVE FOR EACH INFLOOR ZONE

<u>GENERAL NOTES:</u> 1. REFER TO SCHEDULES GENERAL NOTES. 2. MODEL NUMBERS ARE STERLING UNLESS OTHERWISE NOTED. 3. FLUID TYPE: W = WATER, PGXX = PROPYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL, EGXX = ETHYLENE GLYCOL SOLUTION XX PERCENTAGE OF GLYCOL.



A3	ADDENDUM NO. 3 ISSUED FOR BID		02/03/25
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D C B	ENTER D PACK NO.3	S WELC	OME
D C BI MIDI	ENTER D PACK NO.3 _and, michigan	S WELC	ЭМЕ
De C B MIDI SHEE	ENTER D PACK NO.3	S WELC	_
D C B M D S HEE M	ENTER D PACK NO.3 _AND, MICHIGAN T TITLE ECHANICAL S	S WELC	LES
De Cl Bl MIDI SHEE M	ENTER D PACK NO.3 LAND, MICHIGAN T TITLE ECHANICAL S	S WELC	LES ≣R