

ST. MARY'S COUNTY GOVERNMENT

AMENDMENT OF SOLICITATION		1. CONTRACT NUMBER	PAGE 1	OF PAGES 14
2. AMENDMENT NUMBER 006	3. EFFECTIVE DATE 29 MAY 2025	4. REQUISITION NUMBER 140112	5. PROJECT NO. (If applicable)	
6. ISSUED BY OFFICE OF PROCUREMENT P. O. BOX 653 LEONARDTOWN, MD 20650		7. ADMINISTERED BY (If other than item 6)		
8. NAME AND ADDRESS OF CONTRACTOR (No., Town, County, State and ZIP Code) ALL BIDDERS		X	9A. AMENDMENT OF SOLICITATION NO. 25-DPWT-140112	
			9B. DATED (SEE ITEM 11) February 3, 2025	
			10A. MODIFICATION OF CONTRACT NO.	
			10B. DATED (SEE ITEM 13)	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS AS DESCRIBED IN ITEM 14. <u>FAILURE TO ACKNOWLEDGE THIS AMENDMENT MAY RESULT IN THE REJECTION OF YOUR BID.</u>				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offers <input checked="" type="checkbox"/> is extended <input type="checkbox"/> is not extended. <p>Offers must acknowledge the receipt of this amendment prior to the date and time specified in the solicitation, or as amended by one of the following methods: a.) By completing Item 15 and returning <u>one (1)</u> copy of the amendment with your bid; b.) By acknowledging receipt of this amendment on each copy of the bid submitted; or c.) In writing, referencing the solicitation and amendment number. If you wish to change or withdraw a bid package that has already been submitted, you must make this request in writing prior to the Bid Opening.</p>				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES SHOWN IN ITEM 14.				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of Modification and Authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copy to the issuing office.				
14. DESCRIPTION OF AMENDMENT OR MODIFICATION				
<p>This Amendment provides answers to the final round of questions. No additional requests will be entertained.</p> <p>Marked up drawings attached to the end of this Amendment are provided for informational purposes only.</p> <p>The Bid Due Date for Sealed Bids is extended until <u>Wednesday June 11, 2025 at 3pm.</u></p> <p>All other terms and conditions remain unchanged.</p> <p>Except as provided herein, all items, terms and conditions of the document referenced in item 9A or 10A, remains unchanged and in full force and effect.</p>				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Brandon Hayden, CPP, CPPM, CGPP Procurement Manager		
15B. CONTRACTOR/OFFEROR BY (Sign & Date)		16B. ST. MARY'S COUNTY BY (Sign & Date)		
(Signature of person authorized to sign)		(Signature of Contracting Officer)		

ST CLEMENTS ISLAND MUSEUM CONSTRUCTION
Solicitation # 25-DPWT-140112 (QA#4)

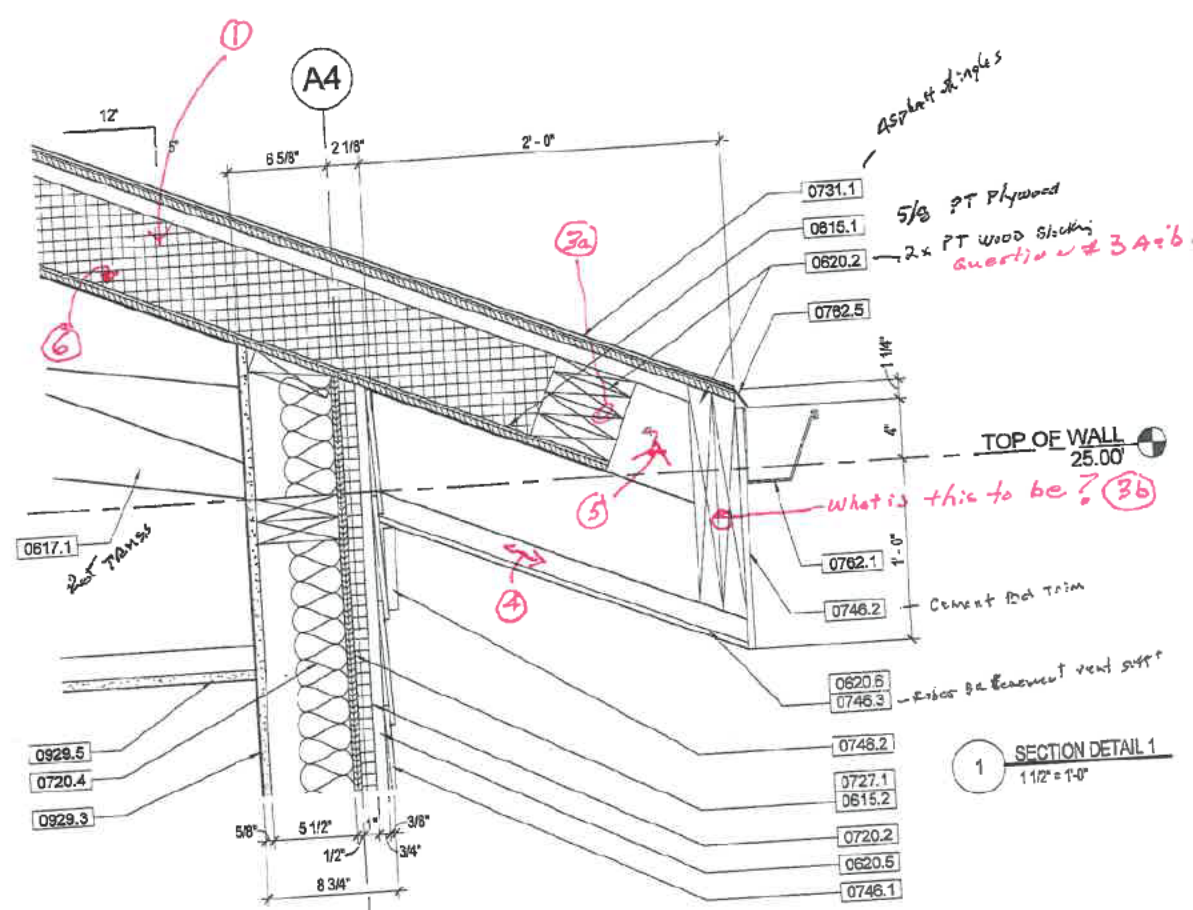
87	Q	The Hunter Cool Vent Panel does not show a 7" R-30 panel, see attached. I have inquired, see answer back from them. See attached two (2) pages. From Hunter, looks like it may add another layer of plywood, please confirm. (1)
	A	<i>No. Per Hunter's response, the R-30 value is achieved via a 2-layer system. The bottom layer is insulation only; and does not add an additional layer of plywood.</i>
88	Q	Would Insulspan Structural Insulated Panel be an approved equal? See attached two (2) pages. (2)
	A	<i>No, Insulspan SIP panels are not an equal product on their own as they do not provide the ventilation portion of the specified Hunter Cool-Vent product.</i>
89	Q	The blocking shown on roof detail at end of rigid insulation. What is the size of the 2X required? (3a) What is the framing at end of the insulated panels? It scales approximately 15". (3b)
	A	<i>2x blocking at end of nailable insulation panel to be 2x4 min to provide attachment along open edge of roof vent.</i> <i>2x blocking along eave to be built up to provide sufficient height to support 16" fiber-cement board trim.</i>
90	Q	What is the 2X furring nailing to? And what is furring size to be? Looks like it should be going perpendicular. (4)
	A	<i>2x furring for cement board soffit vent panels to attach to underside of roof truss extensions.</i>
91	Q	What is the blank space to be? Wood? Blocking? If so, what is it attached to? (5)
	A	<i>Space noted as #5 in sketch provided is an open area for ventilation between the wood blocking noted above.</i>
92	Q	Does 5/8" plywood get any moisture barrier applied to top side? (6)
	A	<i>No</i>
93	Q	Addendum 5 - Question 75 asked about alternate manufacturers for the shades. The answer indicated that substitutions will not be considered during the bid process. There are only two shade manufacturers that can produce the shades on this project, especially the 294" tall motorized shade in the stairwell. MechoShade, which is listed as the specified manufacturer has had price increases due to the tariffs and will not guarantee their pricing for more than 120 days.

ST CLEMENTS ISLAND MUSEUM CONSTRUCTION
Solicitation # 25-DPWT-140112 (QA#4)

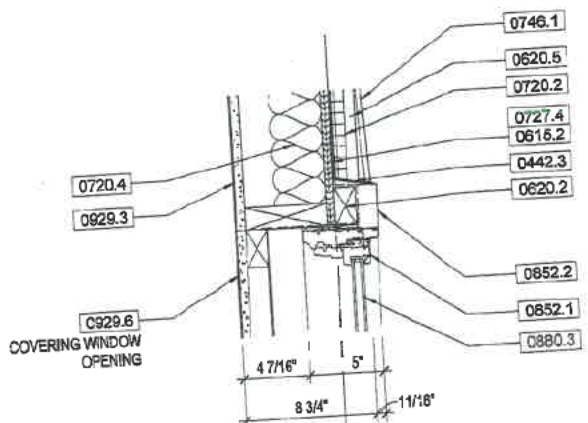
		Draper is an equivalent manufacturer that meets or exceeds all requirements of the specification. Draper will honor all of their pricing for 12 months past the quote date. Due to the tariffs, please advise if Draper can be considered as an acceptable manufacturer ILO MechoShade.
	A	Provide pricing for the specified MechoShade in your bid. If the submittal for the MechoShade can be produced quickly by the contractor after Notice to Proceed is given, the County will expedite the review process so that the window shades can be released within the 120 day time frame.
94	Q	Regarding Drawings E105 and E106, Keynote 1 on both drawings. Please provide specific outlet identifiers for these Junction box locations. Are they Voice/Data, CATV, or other? We need to know what these locations are for so we can include the appropriate cables for these locations.
	A	<i>Provide labeled ethernet cables with corresponding faceplates to junction boxes assigned to Keynote 1 on E105 & E106.. Terminate in IT Closet.</i>
95	Q	Regarding Drawing E501 - Data Rack Detail. This detail indicates a need for Multi-mode Fiber to be terminated in contractor provided fiber panels but does not define how many strands are required. The SOW only indicates 6 strands of Single-Mode Fiber shall be provided between closets. Please indicate the desired fiber type and desired strand count. There also is no origination point identified for this fiber on the Electrical Site plan or interior electrical plans. Please provide information on where this fiber should be pulled from. Are any other backbone or OSP cables (copper, coax, or Fiber) required to service the building?
	A	<i>The data lines running to the network/data switching equipment and UPS will be provided by the owner. The Contractor shall provide conduit from the Utility Pole directly to the IT Closet for this purpose. The Contractor does not need to provide or install any fiber optic cable. The referenced language refers is standard and refers to buildings with multiple IT closets.</i>
96	Q	Regarding Drawing E001 Electrical Legend. There appears a symbol for AV outlet with a reference to ET-003. Notably, there have been no ET drawings made available. If an ET drawing set is available, please provide it. If not available, is it possible to have the E105 and E016 plans updated to include the proper symbols for all of the Junction boxes appearing on those plans, so contractors can provide the appropriate cabling? Scope of work pages 10, 11, 12 provide the cabling requirements, but the drawings do not provide specifics enough to determine what is needed.

ST CLEMENTS ISLAND MUSEUM CONSTRUCTION
Solicitation # 25-DPWT-140112 (QA#4)

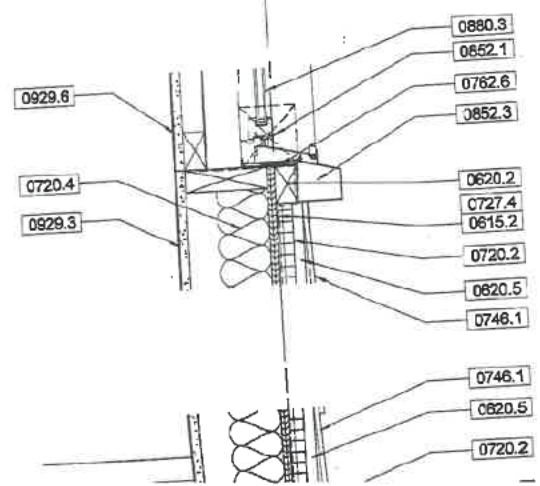
	A	<p><i>Disregard the notation for ET-003. No ET drawings will be provided.</i></p> <p><i>Crest Lock has provided preliminary drawings indicating the dimensions and requirements for back boxes installing their equipment. Crest Lock will be contracted directly by the Owner during the Commissioning Phase. All conduit to these boxes to be installed by Contractor with labeled pull strings. Wiring to Crest Lock products to be provided and installed by Crest Lock.</i></p> <p><i>Provide labeled ethernet cables with corresponding faceplates to junction boxes assigned to Keynote 1 on E105 & E106.</i></p>
--	----------	---



1 SECTION DETAIL 1
1 1/2" = 1'-0"



2 SECTION DETAIL 2
1 1/2" = 1'-0"



3 SECTION DETAIL 3
1 1/2" = 1'-0"

Page A-50 of 4-9-25
Section Detail 3

We do not offer a 1 layered option. Typically to achieve an R30 rating we recommend a 2 layered system. A layer of flat ISO, followed by a layer of the NB. Hope this helps.

Let me know if you need anything else
Thanks

Karl Lehman

Pricing Analyst

karl.lehman@hpanels.com

717.706.6897

www.hunterpanels.com





Cool-Vent is a venting composite insulation board that consists of a 4'x8' panel of closed cell rigid polyisocyanurate, a middle layer of solid wood spacers, creating a standard 1" air space and a top layer of APA/TECO rated OSB or plywood. Cool-Vent is the environmentally intelligent choice for steep slope roofing applications and is viable in green and sustainable building designs.

APPLICATIONS

Cool-Vent is custom built to incorporate the individual specifications of the building designer. Cool-Vent is for use on slopes of 3:12 or greater (for lower slope considerations see H-Shield NB).

- To achieve optimal thermal performance, Hunter Panels recommends installation of a multi-layered system with staggered joints.

Applicable construction types include:

- Non-insulated Cathedral and Vaulted Ceilings
- Exposed ceiling designs beneath steel, plywood, tongue & groove deck types in commercial and residential constructions
- Log Home applications
- Post & Beam constructions

Acceptable Roof Coverings:

- Shingles
- Slate (Natural and Synthetic)
- Tile
- Standing Seam Metal Roof Systems

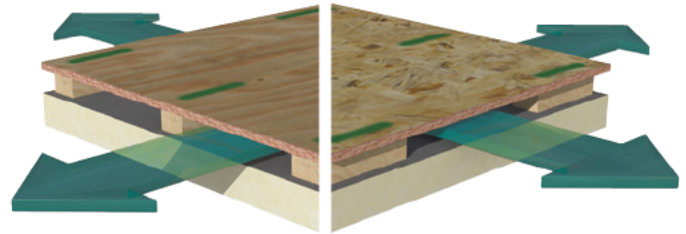
PANEL CHARACTERISTICS

- Manufactured with NexGen Chemistry: Contains no CFCs, HCFCs, HFCs, is Zero ODP, EPA Compliant and has virtually no GWP
- 75% lateral air movement
- Optimal cooling and ventilation through 92% open air space
- ASTM C1289 Type II, Class 1, Grade 2 (20 psi)
- Available in 4' x 8' (1220mm x 2440mm) panels in overall thicknesses of 2.5" (64mm) to 5.0" (127mm)
- Multiple Substrate Types Available:
 - OSB: 7/16" or 5/8"
 - Plywood: 5/8", 3/4" (CDX or CDX Fire-Treated)
- The edges of the wood panels are rabbeted to provide for expansion and contraction of the wood while allowing the foam edges to be installed tightly to achieve thermal integrity across the entire roof deck
- Wood spacers less than 12" apart; minimizes deflection
- Design flexibility: 1.5" and 2" wood spacers available for increased air flow (when eave ridge distance is over 20 feet)
- Exceeds requirements of ARMA Tech Bulletin 211-RR-24 regarding minimum depth of air space

POTENTIAL LEED CREDITS FOR POLYISO USE

Energy and Atmosphere

- Optimize Energy Performance



Materials & Resources

- Building Life-Cycle Impact Reduction
- Environment Product Declaration
- Material Reuse
- Recycled Content
- Construction and Demolition Waste Management

Indoor Environmental Quality

- Thermal Comfort

COOL-VENT THERMAL VALUES

Long Term Thermal Resistance Values are based on ASTM C 1289

Thickness [†]		Minimum R-Value	Flute Spanability
(inches)	(mm)		
2.5	64	5.7	2 5/8"
3.0	76	8.6	4 3/8"
3.5	89	11.4	4 3/8"
4.0	102	14.4	4 3/8"
4.1	104	15.0	4 3/8"
4.5	114	17.4	4 3/8"
5.0	127	20.5	4 3/8"

[†]Thickness is calculated with 7/16" OSB and 1" airspace. For other dimensions contact Hunter Panels. Cool-Vent is only manufactured in the sizes listed above and on our packaging and weight chart. R-values other than those listed can be achieved by installing a multi layer system consisting of an additional layer of flat polyiso under Cool-Vent.

DEFINITION OF NFA/LF

The Net Free Area of Ventilation Per Linear Foot is derived by multiplying the air space in inches by the length in inches of the Cool-Vent panel. The area of the wood spaces is then subtracted and the difference is divided by 4 or 8.

Airspace Dimension	NFA/LF
1.0"	7.5/9.5 sq inch
1.5"	11.25/14.25 sq inch
2.0"	15.00/19.0 sq inch

CODES AND COMPLIANCES

- ASTM C 1289 Type II, Class 1 Grade 2 (20 psi)
- International Building Code (IBC) Chapter 26
- State of Florida Product Approval Number FL 5968
- Miami Dade County Product Control Approved

UNDERWRITERS LABORATORIES INC CLASSIFICATIONS

- TGDY. R20624 Shingle Deck Accessory; Cool-Vent roof insulation is classified for use with any Class A, B, or C asphalt organic shingles, metal or tile roof coverings.
- UL 1256
- Insulated Steel Deck Construction Assemblies – No. 120, 123
- UL 790
- UL 263 Hourly Rated P Series Roof Assemblies

UL CLASSIFIED FOR USE IN CANADA

- Refer to UL Directory of Products Certified for Canada for more details

FACTORY MUTUAL APPROVALS

- FM 4450, FM 4470

TYPICAL PHYSICAL PROPERTY DATA

Polyiso Foam Core Only

Physical Property	Test Method	Value
Compressive Strength	ASTM D 1621	20 psi (138kPa, Grade 2)
Dimensional Stability	ASTM D 2126	2% linear change (7 days)
Moisture Vapor Transmission	ASTM E 96	< 1 perm (57.5ng/(Pa•s•m ²))
Water Absorption	ASTM C 209	<1% volume
Flame Spread*	ASTM E 84	< 75
Smoke Developed*	ASTM E 84	< 450
Service Temperature	-	-100° to 250°F (-73°C to 122°C)

*Meets the requirements of the IBC code.

FASTENING GUIDELINES

Hunter Panels requires the use of the Hunter Panels SIP SD Panel Fastener for steel deck applications, the SIP WD for plywood deck applications, and SIP HD for heavy duty steel decks.

WARNINGS AND LIMITATIONS

Insulation must be protected from open flame and kept dry at all times. Store above ground on pallets and cover with breathable tarpaulins. Install only as much Polyiso as can be covered the same day with the completed roofing system. Do not leave exposed. This panel consists of insulation, wood spacers, and the top layer of OSB or Ply. All materials are glued together for transportation and handling purposes only. Support the panel from the bottom layer when relocating to the desired location. Improper handling may cause components to separate. Separation of the components will not affect the performance of the products once properly installed. Hunter Panels will not be responsible for specific designs by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site, or for improper storage and handling.

INSTALLATION

- Install Cool-Vent only over fully supported structural decking
- Cool-Vent is NOT a structural panel
- Hunter Panels recommends Cool-Vent be applied perpendicular to the flutes in steel deck applications
- The use of 15# and 30# roofing felt is not recommended under asphalt shingles when using Hunter Panels Cool-Vent product
- Install Cool-Vent on slopes 3:12 or greater

NOTE: When installing Cool-Vent over an acoustical deck, check local codes for fire ratings. The use of a 5/8" minimum gypsum fire barrier may be required.

The Use of Synthetic Underlayments

Hunter Panels strongly suggests the use of a synthetic underlayment under asphalt shingles unless otherwise specified by the shingle manufacturer. Synthetic underlayments provide excellent water resistance and absorb no moisture.

Vapor Retarders

Vapor barriers also serve as air barriers to limit the movement of moisture-laden air from the interior to the exterior. This is especially important during the construction phase where excessive moisture drive is present. To determine whether a vapor retarder is necessary, we recommend that calculations on the building's interior relative humidity, interior temperature conditions and outside temperature fluctuations during the various seasons be performed prior to the completion of the design. Excessive moisture migration can cause unwanted condensation that will potentially damage the system or infiltrate the occupied space. Hunter Panels strongly suggests the use of a vapor retarder with a perm value of 0.5 or less on all projects except in extreme cooling conditions. This criteria varies with geological location therefore consult a licensed design professional, architect, or engineer to establish whether or not a vapor retarder is necessary and to specify its type and location within the assembly. This criteria varies with geographical location and is therefore specific to each project.

Review manufacturer's specifications and details for complete installation information.



Energy Smart Polyiso

15 Franklin Street ■ Portland, Maine 04101 ■ 888.746.1114 ■ info@hpanels.com ■ www.hunterpanels.com



Hunter H-Shield NB is a rigid roof composite panel composed of a closed cell polyisocyanurate foam core manufactured on-line to a fiber reinforced facer on one side and either 7/16" or 5/8" OSB substrate on the other side. H-Shield NB can also be manufactured off-line bonded to 5/8" plywood or 3/4" plywood.

APPLICATIONS

- Heavyweight Shingles
- Standing Seam Metal Roof Systems
- Tile
- Slate
- Single-Ply Roof Systems – Ballasted, Mechanically Attached, Fully Adhered.
(For high wind speed warranty – see individual Single-Ply manufacturer approvals and listings)
- Suitable for new construction and re-roofing on both commercial and residential projects

PANEL CHARACTERISTICS

- Manufactured with NexGen Chemistry: Contains no CFCs, HFCs, HCFCs, is Zero ODP, EPA Compliant, and has virtually no GWP
- A superior combination of high insulating properties and a nailable surface
- Incorporates APA-TECO Rated Exposure 1 OSB and Plywood
- The edges of the wood panels are rabbeted to allow for expansion and contraction of the wood. The foam edges shall be installed tightly to achieve thermal integrity across the entire roof deck. Available as a non-rabbeted panel upon special request.
- ASTM C 1289 Type V, Grade 2 (20 psi)
- Available foam size is 47.5"x95.5" when manufactured on-line in thicknesses of 1.5" (38mm) to 4.0" (102mm)
- Available in foam size is 48"x96" when manufactured off-line in thicknesses of 1.5" (38mm) to 4.0" (102mm)
- Multiple Substrate Types Available:
OSB: 7/16" or 5/8" **Plywood:** 5/8" or 3/4" (CDX or CDX Fire-Treated)

POTENTIAL LEED CREDITS FOR POLYISO USE

Energy and Atmosphere

- Optimize Energy Performance

Materials & Resources

- Building Life-Cycle Impact Reduction
- Environment Product Declaration
- Material Reuse
- Recycled Content
- Construction and Demolition Waste Management

Indoor Environmental Quality

- Thermal Comfort

ADD THIS????



H-SHIELD NB THERMAL VALUES

Long Term Thermal Resistance Values are based on ASTM C 1289

Thickness [†]		LTR R-Value	Flute Spanability
(Inches)	(mm)		
1.50	38	6.3	4 3/8"
2.00	51	9.2	4 3/8"
2.50	64	12.0	4 3/8"
3.00	76	15.0	4 3/8"
3.50	89	18.0	4 3/8"
4.00	102	21.1	4 3/8"

[†]Thickness is calculated with 7/16" OSB.

H-Shield NB is manufactured in the sizes listed above with additional sizes on our packaging and weights chart. R-values other than those listed can be achieved by installing a multi layer system consisting of an additional layer of flat polyiso under H-Shield NB.

CODES AND COMPLIANCES

- ASTM C 1289 Type V, Grade 2 (20 psi)
- International Building Code (IBC) Chapter 26
- State of Florida Product Approval Number FL 5968
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1420
- Miami Dade County Product Control Approved
- Hail Rating: SH-1, VSH

UNDERWRITERS LABORATORIES INC CLASSIFICATIONS

- UL 1256
- Insulated Steel Deck Construction Assemblies – No. 120, 123
- UL 790
- UL 263 Hourly Rated P Series Roof Assemblies

UL CLASSIFIED FOR USE IN CANADA

- Refer to UL Directory of Products Certified for Canada for details

FACTORY MUTUAL APPROVALS

- FM 4450, FM 4470
- Approved for Class 1 insulated steel deck constructions. Refer to FM Approval's RoofNav for details on specific systems

TYPICAL PHYSICAL PROPERTY DATA

Polyiso Foam Core Only

Physical Property	Test Method	Value
Compressive Strength	ASTM D 1621	20 psi (138kPa, Grade 2)
Dimensional Stability	ASTM D 2126	2% linear change (7 days)
Moisture Vapor Transmission	ASTM E 96	< 1 perm (57.5ng/(Pa•s•m ²))
Water Absorption	ASTM C 209	<1% volume
Flame Spread*	ASTM E 84	< 75
Smoke Developed*	ASTM E 84	< 450
Service Temperature		-100° to 250°F (-73°C to 122°C)

**Meets the requirements of the IBC code.

WARNINGS AND LIMITATIONS

Insulation must be protected from open flame and kept dry at all times. Store above ground on pallets and cover with breathable tarpaulins. Install only as much Polyiso as can be covered the same day with the completed roofing system. Do not leave exposed. Hunter Panels will not be responsible for specific designs by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site, or for improper storage and handling.

INSTALLATION - SINGLE-PLY SYSTEMS

Shingles, Tiles, Slate, Metal and Membrane Roofing

H-Shield NB is installed wood side up over steel, plywood, or structural roof decks. Hunter Panels SIP Fasteners are required to secure the H-Shield NB to the steel or plywood deck. Wood blocking, if necessary, should be equal in thickness to the H-Shield NB and should be installed along the eaves and rake edges of the roof. The roofing system is then installed according to the manufacturer's recommendations. H-Shield NB may be adhered to a 1/2" per ft. max slope properly prepared cementitious deck (with a full mopping of Type III or Type IV asphalt or a low rise adhesive) only when manufactured online.

All H-Shield NB manufactured off-line must be mechanically attached.

The Use of Synthetic Underlayments

The use of synthetic underlayments is becoming an industry norm (for steep slope applications). Hunter Panels strongly suggests the use of a synthetic underlayment under asphalt shingles unless otherwise specified by the shingle manufacturer. Synthetic underlayments provide excellent water resistance and absorb no moisture.

Vapor Retarders

In building construction, vapor retarders are used to inhibit or block the passage of moisture into roofing assemblies. Vapor barriers also serve as air barriers to limit the movement of moisture-laden air from the interior to the exterior. This is especially important during the construction phase where excessive moisture drive is present. To determine whether a vapor retarder is necessary, we recommend that calculations on the building's interior relative humidity, interior temperature conditions, and outside temperature fluctuations during the various seasons be performed prior to the completion of the design. Excessive moisture migration can cause unwanted condensation that will potentially damage the system or infiltrate the occupied space. Hunter Panels strongly suggests the use of a vapor retarder with a perm value of 0.5 or less on all projects except in extreme cooling conditions. Consult a licensed design professional, architect or engineer to establish whether or not a vapor retarder is necessary and to specify its type and location within the assembly. This criteria varies with geographical location and is therefore specific to each project.

Fastening Guidelines

Hunter Panels requires the use of the Hunter Panels SIP SD Panel Fastener for steel deck applications, the SIP WD for plywood deck applications, and SIP HD for heavy duty steel decks. Additional information on fasteners and fastening patterns are available on our website at www.hunterpanels.com.

Review manufacturer's specifications and details for complete installation information.



Energy Smart Polyiso

15 Franklin Street ■ Portland, Maine 04101 ■ 888.746.1114 ■ info@hpanels.com ■ www.hunterpanels.com

INSULSPAN
Structural Insulated Panels
Another Building Above From Papp



Sustainability



Comfort



Durability



Performance

insulspan.com | 866.848.8855 - West | 800.726.3510 - Midwest/East | sales@insulspan.com

Effective Thermal Resistance (R-Value)

The Insulspan SIP System provides wall and roof assemblies with higher effective thermal resistance (R-value) than other construction methods. The R-Value of an assembly is a measure of its ability to resist heat flow through it. The higher the R-Value of your wall assembly, the lower your energy costs for heating and cooling your home.

Upgrade your SIP System to use graphite-enhanced expanded polystyrene (GPS) and increase the R-value of your structure by about 20%.

Panel Thickness	EPS R-Value	GPS R-Value
4 1/2"	15.4	18.3
6 1/2"	23.2	27.7
8 1/4"	30.0	35.9
10 1/4"	37.8	45.3
12 3/4"	45.6	54.7

Wall and roof assemblies built with the Insulspan SIP System result in 40-60% reduction in heat loss when combined with other energy-efficient components such as windows, doors and a properly designed HVAC (heating, ventilation and air conditioning).

Insulation Type Comparison

	EPS	Spray Foam	Fiberglass
R-Value	Constant	Reduces	Reduces
Off-Gas	No	Yes	No
Shrink/Sink	No	Yes	Yes



SIP Panel



Spray Foam



Fiberglass

LEGEND

- CR CARD READER
- H HANDICAP BUTTON
- VI VIDEO INTERCOM
- ALJKP ALARM KEYPAD
- AP PANIC ALARM SWITCH

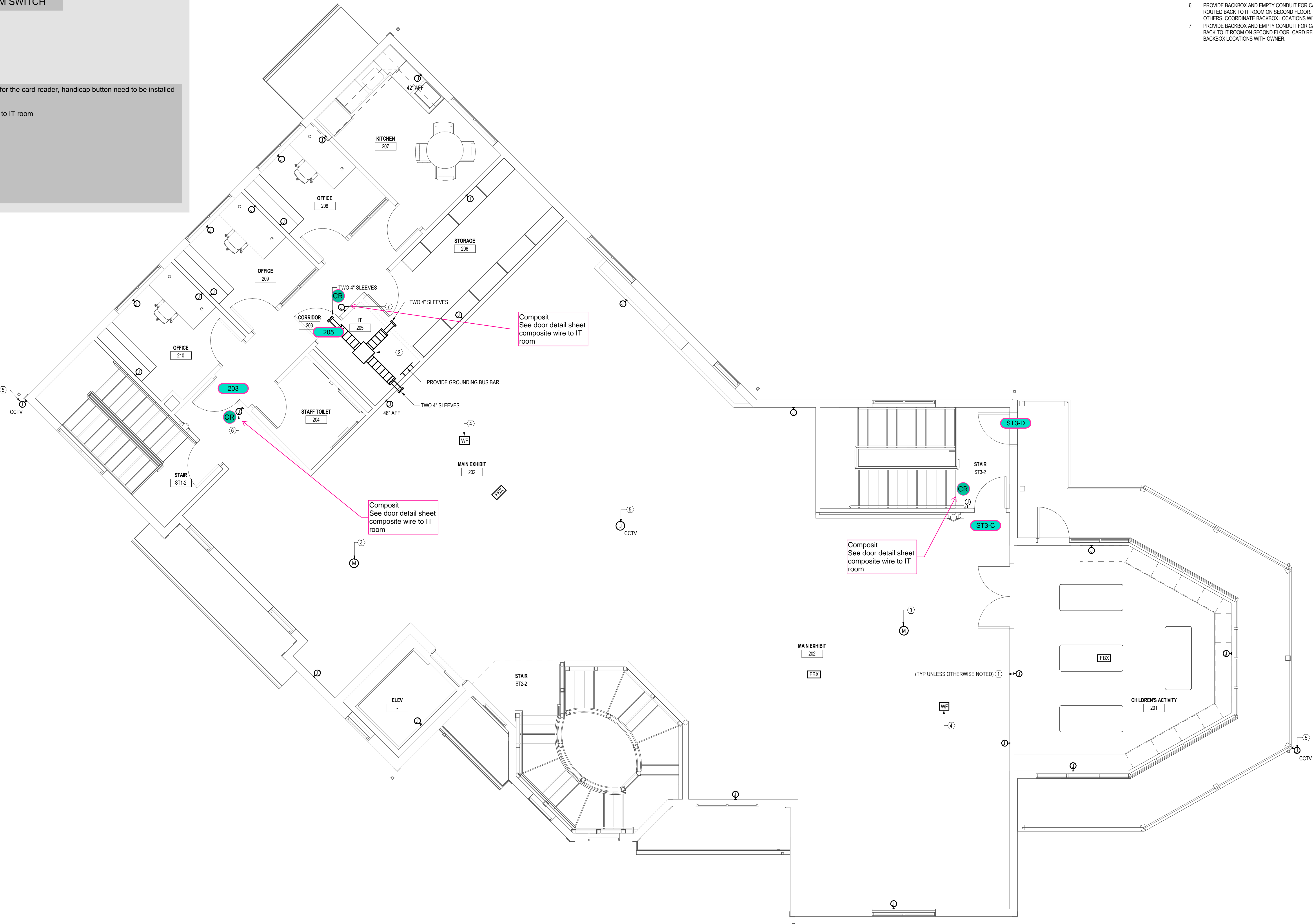
The back boxes need to be installed for the card reader, handicap button need to be installed 42" from the finished floor.
1.25" conduit from each access door to IT room

GENERAL SHEET NOTES:

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY SOLID (—) SHALL BE NEW.
2. REFER TO SHEET E001 FOR LEGEND, ABBREVIATIONS, & GENERAL PROJECT NOTES.
3. REFER TO SHEET E00X FOR PANELBOARD SCHEDULES.

SHEET KEYNOTES:

1. PROVIDE BACKBOX AND EMPTY CONDUIT. CONDUIT SHALL BE ROUTED BACK TO IT ROOM ON SECOND FLOOR. DATA, VOICE AND TV OUTLETS PROVIDED BY OTHERS. COORDINATE BACKBOX LOCATIONS WITH OWNER.
2. PROVIDE DATA RACK, SWITCHES, VIDEO SERVER AND UPS PROVIDED BY OTHERS. REFER TO SHEET E001 FOR DETAILS.
3. PROVIDE BACKBOX AND EMPTY CONDUIT FOR MOTION SENSOR. CONDUIT SHALL BE ROUTED BACK TO IT ROOM ON SECOND FLOOR. MOTION SENSOR PROVIDED BY OTHERS. COORDINATE BACKBOX LOCATIONS WITH OWNER.
4. PROVIDE BACKBOX AND EMPTY CONDUIT FOR WIFI ACCESS POINT. CONDUIT SHALL BE ROUTED BACK TO IT ROOM ON SECOND FLOOR. WIFI DEVICES PROVIDED BY OTHERS. COORDINATE BACKBOX LOCATIONS WITH OWNER.
5. PROVIDE BACKBOX AND EMPTY CONDUIT FOR CCTV CAMERAS. CONDUIT SHALL BE ROUTED BACK TO IT ROOM ON SECOND FLOOR. CAMERAS PROVIDED BY OTHERS. COORDINATE BACKBOX LOCATIONS WITH OWNER.
6. PROVIDE BACKBOX AND EMPTY CONDUIT FOR CARD READER KEYPAD. CONDUIT SHALL BE ROUTED BACK TO IT ROOM ON SECOND FLOOR. CARD READER KEYPAD PROVIDED BY OTHERS. COORDINATE BACKBOX LOCATIONS WITH OWNER.
7. PROVIDE BACKBOX AND EMPTY CONDUIT FOR CARD READER. CONDUIT SHALL BE ROUTED BACK TO IT ROOM ON SECOND FLOOR. CARD READER PROVIDED BY OTHERS. COORDINATE BACKBOX LOCATIONS WITH OWNER.



SEAL:

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUM. 0000, EXP. DATE: 01/01/2001.

PROJECT:

ST. CLEMENT'S ISLAND MUSEUM
NEW BUILDING

38370 POINT BREEZE ROAD,
COLTONS POINT, 20626

PREPARED FOR:

ST. MARY'S COUNTY
DEPT OF PUBLIC WORKS
AND TRANSPORTATION

MARK	DATE	DESCRIPTION
PROJECT NO:	19-02994-002	
DATE:	NOVEMBER 1, 2023	
SCALE:	As indicated	
DESIGNED BY:	AMK	
DRAWN BY:	AMK	
CHECKED BY:	DPP	

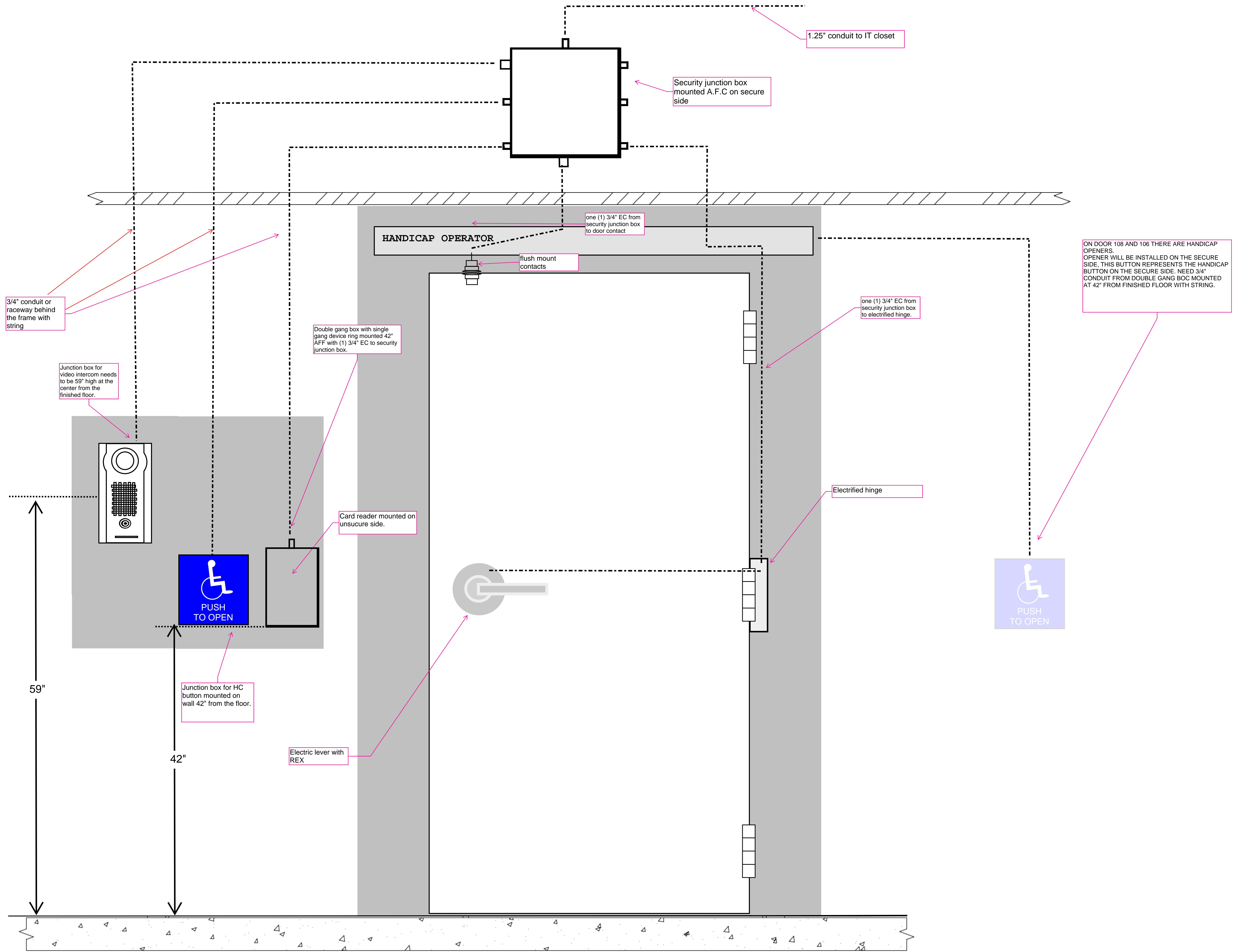
DRAWING TITLE:
ELECTRICAL - SECOND FLOOR - SPECIAL SYSTEMS

SHEET NUMBER:

E106

SHEET OF

ELECTRICAL - SECOND FLOOR PLAN - SPECIAL SYSTEMS
SCALE: 1/4" = 1'-0"



1.25" conduit to IT closet

Security junction box mounted A.F.C on secure side

HANDICAP OPERATOR

one (1) 3/4" EC from security junction box to door contact

flush mount contacts

3/4" conduit or raceway behind the frame with string

Junction box for video intercom needs to be 59" high at the center from the finished floor.

Double gang box with single gang device ring mounted 42" AFF with (1) 3/4" EC to security junction box.

one (1) 3/4" EC from security junction box to electrified hinge.

ON DOOR 108 AND 106 THERE ARE HANDICAP OPENER. OPENER WILL BE INSTALLED ON THE SECURE SIDE, THIS BUTTON REPRESENTS THE HANDICAP BUTTON ON THE SECURE SIDE. NEED 3/4" CONDUIT FROM DOUBLE GANG BOC MOUNTED AT 42" FROM FINISHED FLOOR WITH STRING.

Card reader mounted on unsecure side.

Electrified hinge

59"

Junction box for HC button mounted on wall 42" from the floor.

42"

Electric lever with REX

PUSH TO OPEN