



Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

Date Received: 11/04/10

Permit No.: BL0004778

CAP PROJ # LOGITE

Building Address: 6600 CRADLEROCK WAY
 City: COLUMBIA State: MD Zip Code: 21045
 Suite/Apt. #: _____ SDP/WP/BA #: _____
 Census Tract: _____ Subdivision: _____
 Section: _____ Area: _____ Lot: _____
 Tax Map: _____ Parcel: _____ Grid: _____
 Zoning: _____ Map Coordinates: _____ Lot Size: _____

Property Owner's Name: H. C. DPW
 Address: 3430 COURT HOUSE DRIVE
 City: COLUMBIA State: MD Zip Code: 21045
 Phone: 410 313 2700 Fax: _____
 Email: _____

Applicant's Name & Mailing Address, (If other than stated herein)
 Applicant's Name: STANLEY LOGAN
 Address: 1750 BENDIX ROAD
 City: COLUMBIA State: MD Zip Code: 21045
 Phone: 410 313 4165 Fax: 410 313 5777
 Email: sllogan@howardcountymd.gov

Contractor Company: WILLIAMS SCITSMAN
 Contact Person: STEVE HANSON
 Address: 7529 HARMANS ROAD
 City: HARMANS State: MD Zip Code: 21077
 License No.: 02770001
 Phone: 410 487 8400 Fax: 410 487 2362
 Email: shanson@willscot.com

Existing Use: PARKING LOT
 Proposed Use: PARKING LOT WITH (4) TRAILERS
 Estimated Construction Cost: \$ 100,000.00
 Description of Work: PLACE 4 UNIT TRAILER ON EXISTING EAST COLUMBIA LIBRARY PARKING LOT.
 Occupant or Tenant: HO. C. LIBRARY
 Was tenant space previously occupied? Yes No
 Contact Name: STANLEY LOGAN
 Address: 1750 BENDIX ROAD
 City: COLUMBIA State: MD Zip Code: 21045
 Phone: 410 313 4165 Fax: 410 313 5777
 Email: sllogan@howardcountymd.gov

Engineer/Architect Company: 11/
 Responsible Design Prof.: JAMES P BRADY
 Address: 1705 CHEM GIL AVE
 City: COLUMBIA State: FL Zip Code: 33750
 Phone: TEL 305 9991 Fax: _____
 Email: _____

Commercial Building Characteristics	Residential Building Characteristics	
Height: <u>13'-6"</u>	<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	
No. of stories: <u>1</u>	Depth	Width
Gross area, sq. ft./floor: <u>2880</u>	1 st floor:	
Area of construction (sq. ft.):	2 nd floor:	
Use group: <u>A-3</u>	Basement:	
Construction type:	<input type="checkbox"/> Finished Basement	
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Unfinished Basement	
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space	
<input type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade	
<input type="checkbox"/> Wood Frame	No. of Bedrooms:	
<input checked="" type="checkbox"/> State Certified Modular	Multi-family Dwelling	
	No. of efficiency units:	
	No. of 1 BR units:	
	No. of 2 BR units:	
	No. of 3 BR units:	
	Other Structure:	
	Dimensions:	
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof:	
Roadside Tree Project Permit #	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Utilities	
Water Supply	
<input type="checkbox"/> Public	
<input type="checkbox"/> Private	
Sewage Disposal	
<input checked="" type="checkbox"/> Public	
<input type="checkbox"/> Private	
Electric: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Gas: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Heating System	
<input checked="" type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
Sprinkler System:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Grading Permit Number:	
Building Shell Permit Number:	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: Stanley Logan
 Email Address: sllogan@howardcountymd.gov
 Title/Company: _____

Print Name: STANLEY LOGAN
 Date: 10-26-10

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

PLEASE WRITE NEATLY & LEGIBLY
FOR OFFICE USE ONLY

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)	<u>11/24/10</u>	<u>[Signature]</u>
PSZA (Engineering)	<u>11/24/10</u>	<u>[Signature]</u>
Health	<u>11/10/10</u>	<u>[Signature]</u>

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION	
Front:	
Rear:	
Side:	
Side St.:	
All minimum setbacks met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:	
SDP/Red-line approval date:	

Filing Fee	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub-Total Paid	\$
Balance Due	\$
Check	# <u>CAI 110</u>

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA

FLNTER AS COMM. NEW FOR I. HOBSON

Hill, Amanda

From: Hill, Amanda
Sent: Tuesday, November 08, 2016 8:45 AM
To: glogan@howardcountymd.gov
Cc: Hobson, James; Hurman, Laura; Powell, Markus P.
Subject: B16004778 - 6600 Cradlerock Way - Quad Trailer for East Columbia Library

Good Morning Godfrey,

The subject building permit has been entered into our system, however, please be advised that after speaking with Jim Hobson, a third set of plans will be required for Health Department Review. Please provide a third set of plans at your earliest convenience so that we can forward them to the Health Department (Original Seals and Signatures are NOT required for the set to go to the Health).

Thank you,

Amanda Hill

Regulation Support Technician II
Department of Inspections, Licenses and Permits
3430 Court House Drive
Ellicott City, MD 21043
ahill@howardcountymd.gov
410.313.2455
410.313.3322 (fax)

To check the status of a permit, please visit myhoward.info and search by address or permit number

Davis, Michael J

From: Logan, Godfrey
Sent: Wednesday, October 26, 2016 1:14 PM
To: Davis, Michael J
Subject: RE: Temp. Trailers East Columbia Library

From: Davis, Michael J
Sent: Wednesday, October 26, 2016 8:19 AM
To: Logan, Godfrey
Subject: RE: Temp. Trailers East Columbia Library

Good Morning,

A couple more quick questions.

1. What are the capacities of the wastewater holding tanks and water tanks? The wastewater tanks will be 500 to 600 and the water tanks will be 425 . The set up will be at least 75 gallon min.
2. Will the sink be posted as not potable noting that bottled water is available? Yes , we will post the sinks as NOT POTABLE AND BOTTLE WATER IS AVAILABLE .

We had a construction trailer with the water tank twice the size of the wastewater tank. That was not a good setup to prevent an overflow in the trailer. I doubt the library staff are well versed in monitoring this issue, so there should be something in place to prevent problems. Don`s Johns the provider of the system and I did discuss numerous items to keep track of , and monitoring the gallons pumped and delivered per visit was one of those items.

We will start with 3 days a week service , Monday , Wednesday & Friday and see how that works to start . Thanks for your help.

Mike

From: Logan, Godfrey
Sent: Tuesday, October 25, 2016 4:54 PM
To: Davis, Michael J
Subject: RE: Temp. Trailers East Columbia Library

Mike,

Water will also be in served by holding tanks . Also water coolers for drinking inside .
Sorry for the late response .

Godfrey

From: Davis, Michael J
Sent: Tuesday, October 25, 2016 9:34 AM
To: Logan, Godfrey
Subject: RE: Temp. Trailers East Columbia Library

Godfrey,

It just dawned on me that I will also need details of the source of water for the trailers.

Mike

From: Logan, Godfrey
Sent: Monday, October 24, 2016 2:46 PM
To: Davis, Michael J
Subject: Temp. Trailers East Columbia Library

Mike ,

Howard County Bureau of Facilities can use your assistance in reference to a trailer permit for the East Columbia Library while renovations are being performed .

I am available to come to your office to explain what BOF proposes . I appreciate any assistance on this matter.

Thank You
Godfrey Logan
Office : 410 – 313 – 6165
Cell : 410 – 978 - 5742

**COMPLETE THIS FORM WHEN DROPPING OFF ANY
CORRESPONDENCE AND/OR PLANS TO THE HOWARD COUNTY
DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS COUNTER:**

Date: 11/9/16

To: HEALTH DEPT
(Person's Name and Division)

From: GODFREY LOGAN (410) 313-6165
(Your Name, Company Name and Telephone Number)

Subject: Project name HOWARD COUNTY EAST COLUMBIA LIBRARY
Project site address 6600 CRADLEROCK WAY
Permit # B16004778 SDP # _____
Other information pertinent to this project _____

11/10/16
Approved
m.j. Davis

Please check the attachments below that you are submitting with this transmittal:

- Letter of response to address plan review comment letter
- Revised plans and/or revised details: When submitting for a complete re-review, duplicate sets shall be submitted.
- Letter Summarizing Changes
- Energy conservation calculations
- Copies of PLANS (be specific)
- Health Department Request DPZ/DED Request Applicant's Request
- Two sets of single family dwelling model plans to be placed on permanent file: Model name and/or # _____
- Other _____



Contact Person Information: (Required)

Please Print Name _____ Telephone No: _____
E-Mail Address: _____

PLEASE ASSURE ALL DOCUMENTS AND/OR REVISIONS ARE APPROPRIATELY SIGNED AND SEALED, IF NECESSARY, BY A LICENSED ARCHITECT OR ENGINEER. PLEASE BE ADVISED THAT INSUFFICIENT INFORMATION MAY RESULT IN THE DELAY OF REVIEW BY THE PLANS EXAMINER. THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS WILL CONTACT YOU IF THERE IS A PROBLEM. IN ADDITION, ONCE THE BUILDING PERMIT IS APPROVED BY THE PLAN REVIEW DIVISION AND ALL OTHER REQUIRED SIGNATORY AGENCIES, AND THE BUILDING PERMIT IS READY FOR ISSUANCE, THE PERMIT DIVISION WILL NOTIFY THE APPROPRIATE CONTACT PERSON FOR PERMIT PICK UP. ALL PERMIT STATUS INQUIRIES SHALL BE DIRECTED TO THE PERMIT DIVISION AT 410-313-2455. CODE RELATED QUESTIONS AND PLAN REVIEW INQUIRIES SHALL BE DIRECTED TO THE PLAN REVIEW DIVISION AT 410-313-2436. PLEASE ALLOW A MINIMUM OF FIVE (5) WORKING DAYS FOR ANY PLAN SUBMITTALS TO BE REVIEWED. THANK YOU.

Received by AKH

3RD SET FOR
HEALTH DEPT
ONLY

STAIR CONSTRUCTION NOTES

- 1) ALL STEPS SHALL HAVE A UNIFORM RISER HEIGHT AND TREAD WIDTH. TREADS SHALL NOT BE LESS THAN 12" (304MM) DEPTH AND 7" (178MM) HIGH.
- 2) TREAD NOSING SHALL NOT BE ABRUPT. BOTTOM OF NOSING SHALL HAVE AN ANGLE NOT MORE THAN 30 DEGREES FROM HORIZONTAL PROJECTION AND SHALL NOT EXCEED 1-1/4" (32MM). PER IBC 2012
- 3) THERE SHALL BE NO VARIATION EXCEEDING 3/16" (4.8MM) DEPTH OF ADJACENT TREADS OR IN HEIGHT OF ADJACENT RISERS AND A TOLERANCE BETWEEN LARGEST AND SMALLEST TREAD SHALL NOT EXCEED 3/8" (9MM) IN ANY FLIGHT.
- 4) HANDRAILS SHALL RETURN TO A WALL OR EXTEND HORIZONTALLY AT LEAST 12" (305MM) BEYOND THE TOP RISER AND SHALL EXTEND 12" (305MM) PLUS ONE TREAD AT BOTTOM RISERS. CLEAR SPACE BETWEEN THE WALL OR OTHER SURFACE SHALL BE A MINIMUM 1-1/2" (38MM)
- 5) OPEN RISERS ARE NOT PERMITTED.
- 6) OUTDOOR STAIRS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON THE WALKING SURFACE.
- 7) STEPS, RAMPS AND PLATFORMS SHALL BE DESIGNED FOR 100 psf (4.8 kPa) LIVE LOAD.
- 8) WALKING SURFACE SHALL BE OF SLIP RESISTANT MATEARIAL SECURELY ATTACHED TO STRUCTURE.

- 1) MANEUVERING CLEARANCE ON PULL SIDE OF DOOR SHALL BE 18" (457MM) ON INTERIOR AND 24" (610MM) EXTERIOR WITH 60" (1524MM) LANDING IN FRONT OF DOOR
- 2) HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES. HANDRAILS SHALL BE PARALLEL WITH THE SURFACE AND PROJECT 12" (301MM) ON TOP OF RISER AND 12" (301MM) PLUS 1 TREAD AT BOTTOM RISER. AT RAMPS WHERE HANDRAIL ARE NOT CONTINUOUS BETWEEN RUNS THE HANDRAIL SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12" (301MM) MINIMUM BEYOND TOP AND BOTTOM RAMPS
- 3) TOP OF HANDRAILS SHALL BE MOUNTED BETWEEN 34" (864MM) AND 38" (965MM) ABOVE THE WALKING SURFACE.
- 4) CLEARANCE BETWEEN RAIL AND WALL SHALL BE A MINIMUM OF 1-1/2" (38MM).
- 5) GUARD RAILS SHALL TO BE DESIGNED FOR A CONCENTRATED LOAD OF 200# (0.9kN) APPLIED @ ANY POINT AND ANY DIRECTION ALONG THE RAIL OR A UNIFORM LOAD OF 50#/L. F. (0.7kN/m) APPLIED HORIZONTALLY TO THE GUARD HEIGHT
- 6) BALUSTERS ARE INDEPENDENTLY DESIGNED FOR A CONCENTRATED LOAD OF 200 LBF (0.9 kN).
- 7) HANDRAILS WITH CIRCULAR CROSS SECTION SHALL HAVE A MINIMUM OUTSIDE DIMENSION OF 1-1/4" (31.75MM) AND NOT GREATER THAN 2" (50MM). FOR NON CIRCULAR HANDRAILS THE MINIMUM DIMENSION IS 4" (101MM) AND NOT GREATER THAN 6-1/4" (158.75MM) WITH A MAXIMUM CROSS-SECTION DIMENSION OF 2-1/4" (57.15MM). EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01" (0.25MM). HANDRAIL-GRIPPING SURFACES SHALL BE CONTINUOUS WITHOUT INTERRUPTION BY NEWEL POSTS OR OTHER OBSTRUCTIONS. GRIPPING SURFACE SHALL BE UNINTERRUPTED BY POSTS OR OTHER CONSTRUCTION ELEMENTS OR OBSTRUCTIONS.
- 8) HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS.
- 9) ENDS OF HANDRAILS SHALL RETURN SMOOTHLY TO FLOOR, WALL OR POST.



THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R & S TAVARES ASSOCIATES, DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R & S TAVARES ASSOCIATES ©

REVISION



PROFESSIONAL STAMP



1 STAIR NOTES

SCALE: NTS

2 RAILING NOTES

SCALE: NTS

REFERENCE: IBC 2015

DESIGN LOADS:

LIVE LOAD: 100 PSF (4.8 kPa)
 HANDRAIL IMPACT: 200 LBS (0.9 kN)
 HANDRAIL DIST. LOAD: 50 PLF (0.7 kN/m)
 SNOW LOAD: 100 PSF (4.8 kPa)

MATERIALS

ROUND STEEL TUBE	ASTM A847	Fy= 50 KSI (345 MPa)
GALVANIZED SQUARE STEEL TUBE	ASTM A500 GR. B	Fy= 46 KSI (315 MPa)
ALUMINUM SHEET	3003-H22	Ftu= 27 KSI (185 MPa); Fcy= 21 KSI (114 MPa)
ALUMINUM TUBE	5052-H34	Ftu= 34 KSI (235 MPa); Fcy= 24 KSI (165 MPa)

WELDS

WELDING SHALL BE IN ACCORDANCE WITH AWS D.1.1-10 USING E70XX ELECTRODES FOR STEEL AND AWS A5.10 FOR ALUMINUM, USING ALMIGWELD ER4043

ALUMINUM- STEEL CONNECTIONS: CARBON STEEL BOLTS SHALL BE GRADE 5 ZINC PLATED, HOT DIPPED GALVANIZED TO ASTM A153 OR ELECTROGALVANIZED TO ASTM B63.3

A490 BOLTS SHALL NOT BE USED.

FASTENER SHALL BE LUBRICATED TO ELIMINATE GALLING

ALL STEEL MEMBERS IN CONTACT WITH ALUMINUM SHALL BE ZINC COATED TO ELIMINATE GALVANIC REACTION

PROJECT TITLE

COMPLETE ACCESS
ADA 456 STAIRS

SHEET TITLE

NOTES

PROJECT NUMBER

14000

DRAWN BY

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CHECKED BY

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DATE

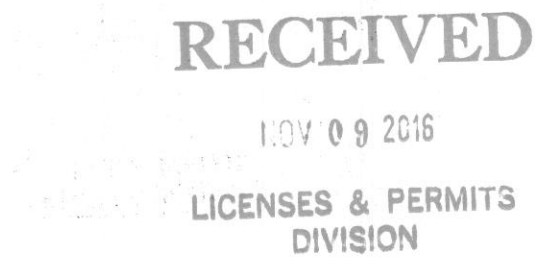
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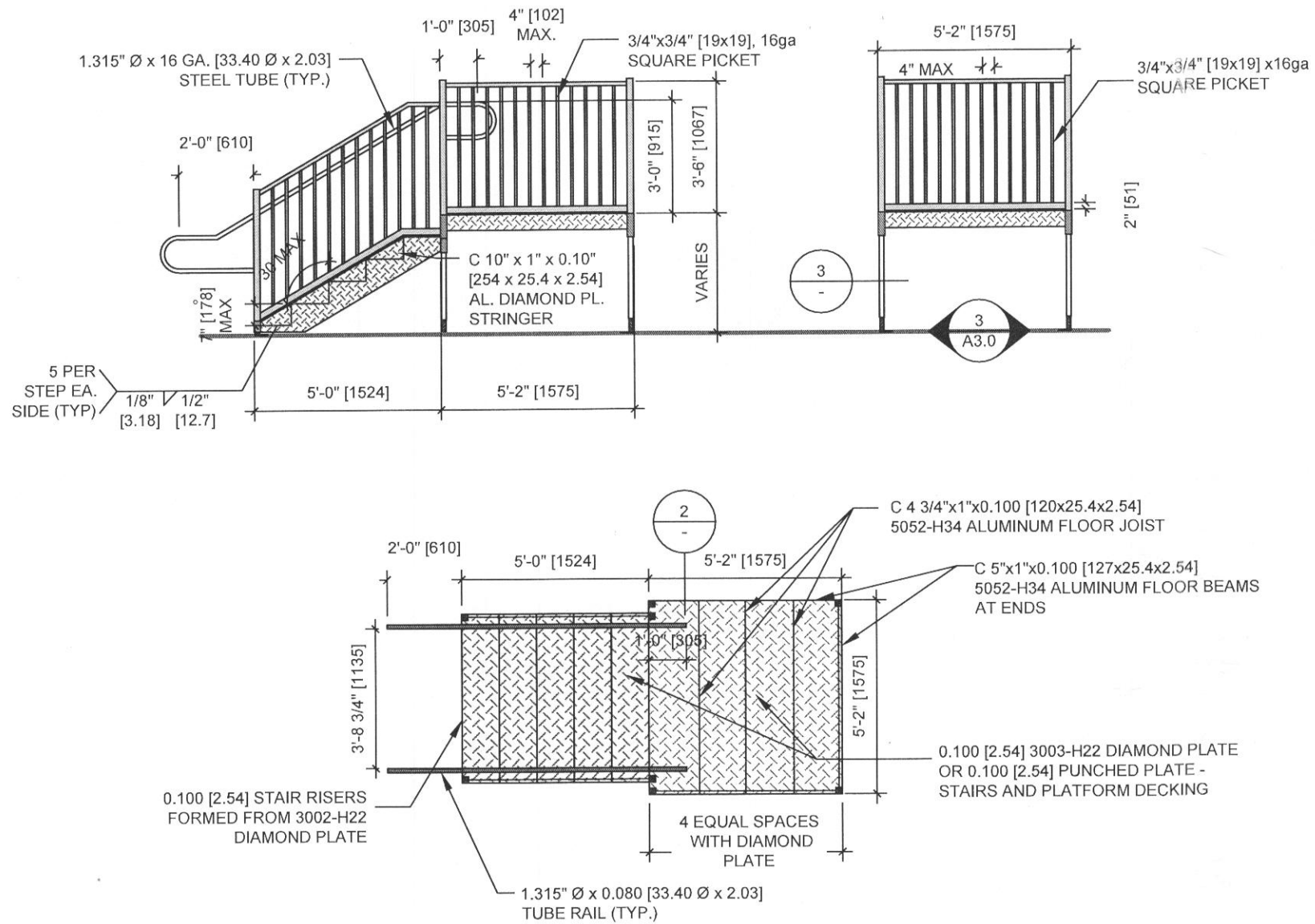
SHEET NO.

A1.0

3 STRUCTURAL NOTES

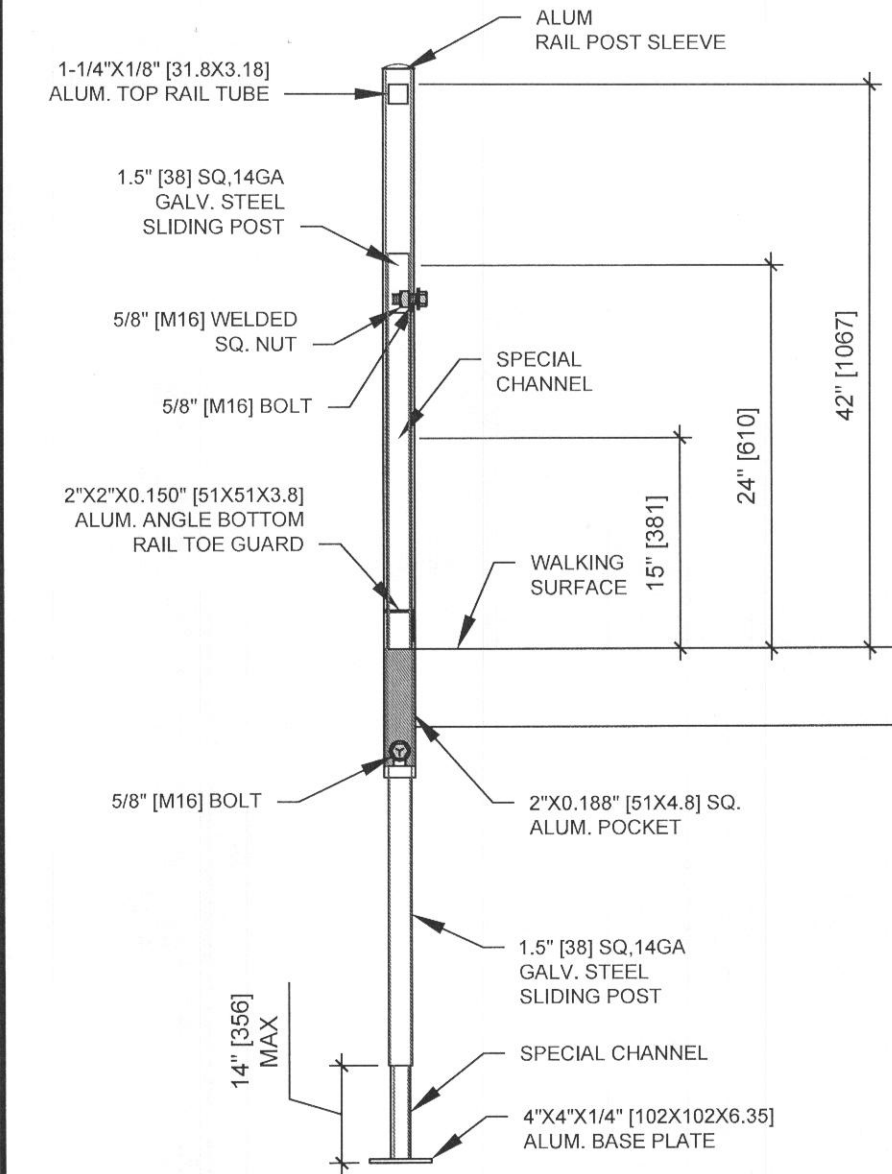
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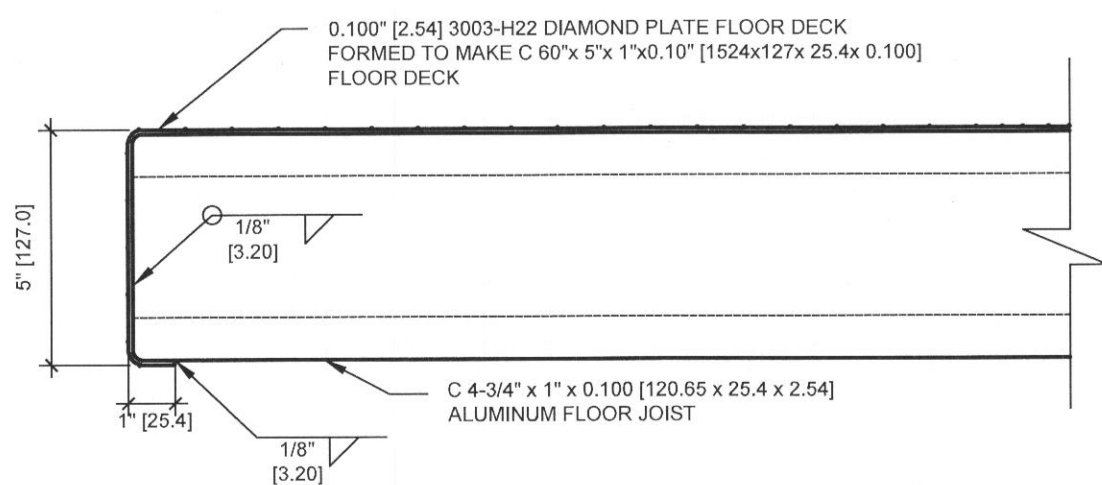
1 3-5 STEP SIDE ELEVATION, END ELEVATION AND PLAN VIEW

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



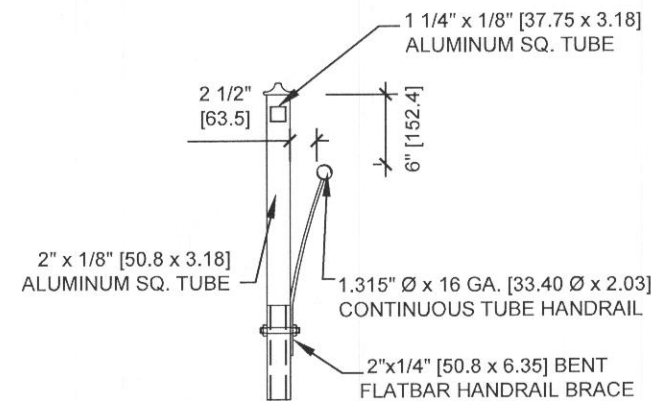
3 POST DETAIL

SCALE: 3/4"=1'-0"



2 FORMED FLOOR JOIST & DECK CONNECTION

SCALE: 3"=1'-0"



4 HANDRAIL DETAIL

SCALE: 3/4"=1'-0"



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COMPLETE ACCESS
ADA 456 STAIRS

SHEET TITLE

STAIRS PLAN
& DETAILS

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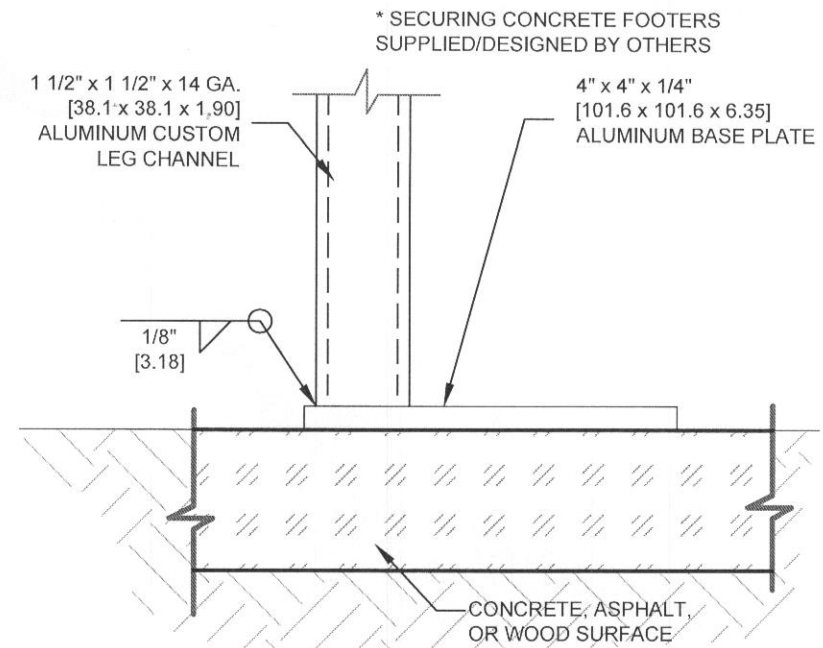
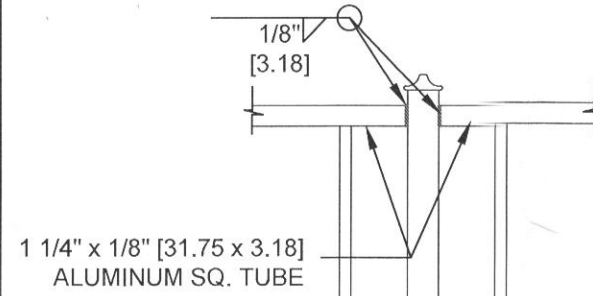
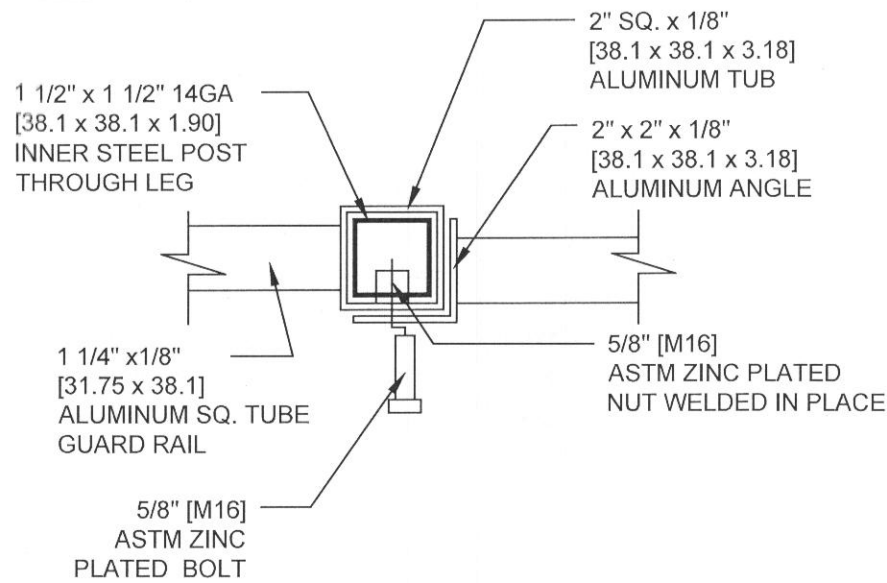
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DATE

11/24/2015

SHEET NO.

A2.0



1 RAILING CONNECTION TOP VIEW

2 RAILING CONNECTION SIDE VIEW

3 TYP. FOOTING DETAIL

4 NOT USED

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



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DETAILS

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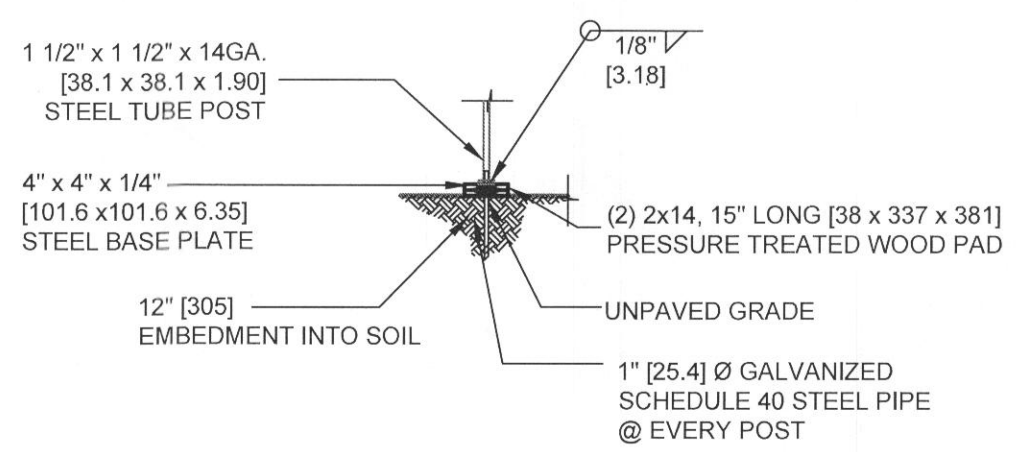
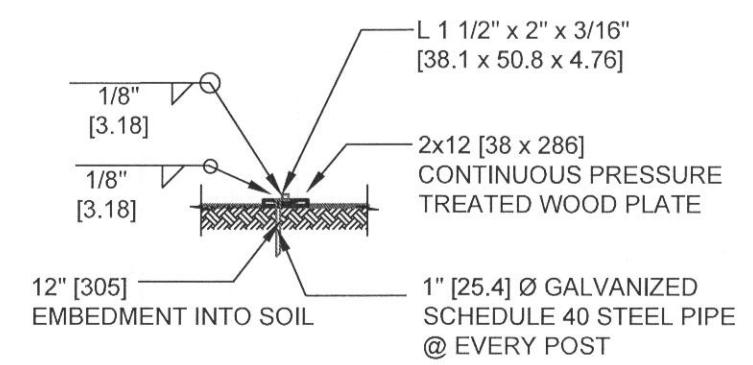
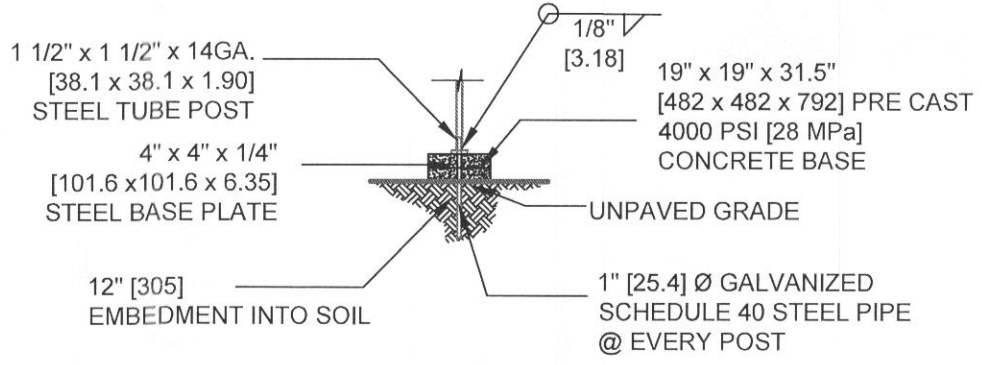
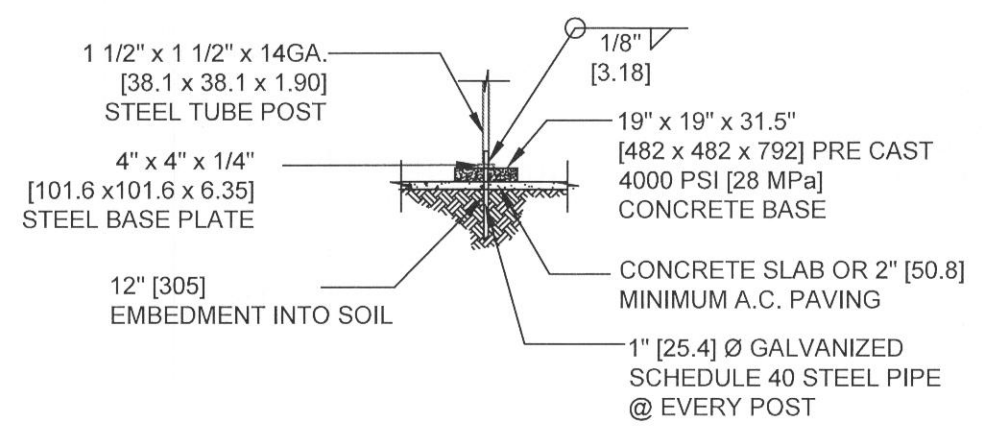
11/24/2015

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A3.0

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NOTE:
 THE CONCRETE AND WOOD FOOTINGS SHOWN ARE FOR ILLUSTRATION ONLY AND ARE NOT PART OF THE RAMP/LANDING STAIR/LANDING OR RAMP/STAIR/LANDING ASSEMBLY.
 THE PADS ARE TO BE USED AT QWNER/USER DISCRETION AND FOLLOWING THE SITE CONDITIONS REQUIREMENTS.



FOOTING AT GROUND MOUNT LANDING

REVISION
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△
△

PROFESSIONAL STAMP

PROJECT TITLE
**COMPLETE ACCESS
 ADA 456 STAIRS**

SHEET TITLE
**SITE-BUILT
 FOOTING
 DETAILS**

PROJECT NUMBER	14000
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DATE	11/24/2015
SHEET NO.	

A4.0

- 1) RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1/12 (8% SLOPE) AND SHALL BE FITTED WITH A SLIP RESISTANT WALKING SURFACE SECURELY ATTACHED TO STRUCTURE.
- 2) THE MAXIMUM VERTICAL RISE OF RAMP RUN SHALL BE 30" (762MM) MAXIMUM
- 3) THE SLOPE PERPENDICULAR TO THE DIRECTION OF TRAVEL AND THE SLOPE ON LANDINGS SHALL NOT BE STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL
- 4) WHEN CHANGES IN DIRECTION OF TRAVEL OCCUR AT LANDINGS BETWEEN RAMP RUNS, THE LANDING SHALL BE 60" x 60" (1524MM x 1524MM) MINIMUM
- 5) MANEUVERING CLEARANCE ON PULL SIDE OF DOOR SHALL BE 18" (457MM) ON INTERIOR AND 24" (610MM) EXTERIOR WITH 60" (1524MM) LANDING IN FRONT OF DOOR
- 6) HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES. HANDRAILS SHALL BE PARALLEL WITH THE SURFACE AND PROJECT 12"
- 7) TOP OF HANDRAILS SHALL BE MOUNTED BETWEEN 34" AND 38" (864MM AND 965MM) ABOVE THE SURFACE
- 8) CLEARANCE BETWEEN RAIL AND WALL SHALL BE 1 1/2" (38.1MM)
- 9) BALUSTERS ARE INDEPENDENTLY DESIGNED FOR A CONCENTRATE LOAD OF 200# (0.9kN) APPLIED TO ONE SQUARE FOOT OF AREA
- 10) STEPS, RAMPS AND PLATFORMS SHALL BE DESIGNED FOR 100 PSF (4.8 kPa) LIVE LOAD
- 11) DOUBLE-RAIL HANDRAIL AVAILABLE WHERE CODE REQUIRES
- 12) SUBMIT SHOP DRAWINGS FOR APPROVAL

- 1) MANEUVERING CLEARANCE ON PULL SIDE OF DOOR SHALL BE 18" (457MM) ON INTERIOR AND 24" (610MM) EXTERIOR WITH 60" (1524MM) LANDING IN FRONT OF DOOR
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- 7) HANDRAILS WITH CIRCULAR CROSS SECTION SHALL HAVE A MINIMUM OUTSIDE DIMENSION OF 1-1/4" (31.75MM) AND NOT GREATER THAN 2" (50MM). FOR NON CIRCULAR HANDRAILS THE MINIMUM DIMENSION IS 4" (101MM) AND NOT GREATER THAN 6-1/4" (158.75MM) WITH A MAXIMUM CROSS-SECTION DIMENSION OF 2-1/4" (57.15MM). EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01" (0.25MM). HANDRAIL-GRIPPING SURFACES SHALL BE CONTINUOUS WITHOUT INTERRUPTION BY NEWEL POSTS OR OTHER OBSTRUCTIONS. GRIPPING SURFACE SHALL BE UNINTERRUPTED BY POSTS OR OTHER CONSTRUCTION ELEMENTS OR OBSTRUCTIONS.
- 8) HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS.
- 9) ENDS OF HANDRAILS SHALL RETURN SMOOTHLY TO FLOOR, WALL OR POST.



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PROFESSIONAL STAMP



2 RAILING NOTES

SCALE: NTS

REFERENCE: IBC 2015

DESIGN LOADS:

LIVE LOAD: 100 PSF (4.8 kPa)
 HANDRAIL IMPACT: 200 LBS (0.9 kN)
 HANDRAIL DIST. LOAD: 50 PLF (0.7 kN/m)
 SNOW LOAD: 100 PSF (4.8 kPa)

MATERIALS

ROUND STEEL TUBE	ASTM A847	Fy= 50 KSI (345 MPa)
GALVANIZED SQUARE STEEL TUBE	ASTM A500 GR. B	Fy= 46 KSI (315 MPa)
ALUMINUM SHEET	3003-H22	Ftu= 27 KSI (185 MPa); Fcy= 21 KSI (114 MPa)
ALUMINUM TUBE	5052-H34	Ftu= 34 KSI (235 MPa); Fcy= 24 KSI (165 MPa)

WELDS

WELDING SHALL BE IN ACCORDANCE WITH AWS D.1.1-10 USING E70XX ELECTRODES FOR STEEL AND AWS A5.10 FOR ALUMINUM, USING ALMIGWELD ER4043

ALUMINUM- STEEL CONNECTIONS: CARBON STEEL BOLTS SHALL BE GRADE 5 ZINC PLATED, HOT DIPPED GALVANIZED TO ASTM A153 OR ELECTROGALVANIZED TO ASTM B63.3

A490 BOLTS SHALL NOT BE USED.

FASTENER SHALL BE LUBRICATED TO ELIMINATE GALLING

ALL STEEL MEMBERS IN CONTACT WITH ALUMINUM SHALL BE ZINC COATED TO ELIMINATE GALVANIC REACTION

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DIVISION

PROJECT TITLE

COMPLETE ACCESS
35' RAMP w/
SWITCHBACK
ADAWSB35

SHEET TITLE

NOTES

PROJECT NUMBER

14000

DRAWN BY

ST

CHECKED BY

RT

DATE

11/24/2015

SHEET NO.

A1.0

1 RAMP NOTES

SCALE: NTS

3 STRUCTURAL NOTES

SCALE: NTS

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 35' RAMP w/
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 ADAWSB35

SHEET TITLE

RAMP PLAN
 & DETAILS

PROJECT NUMBER

14000

DRAWN BY

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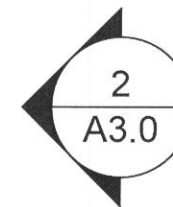
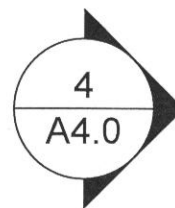
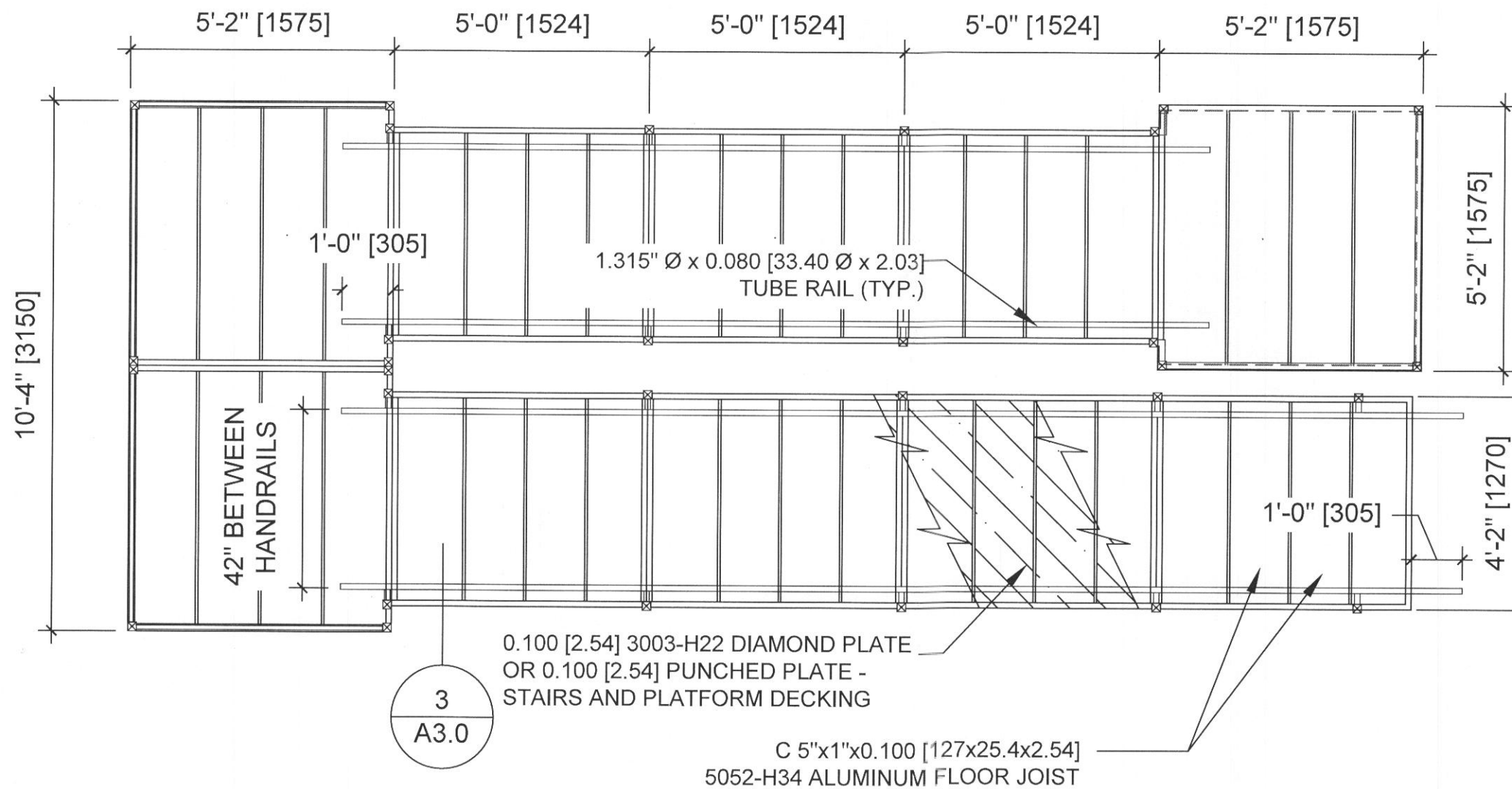
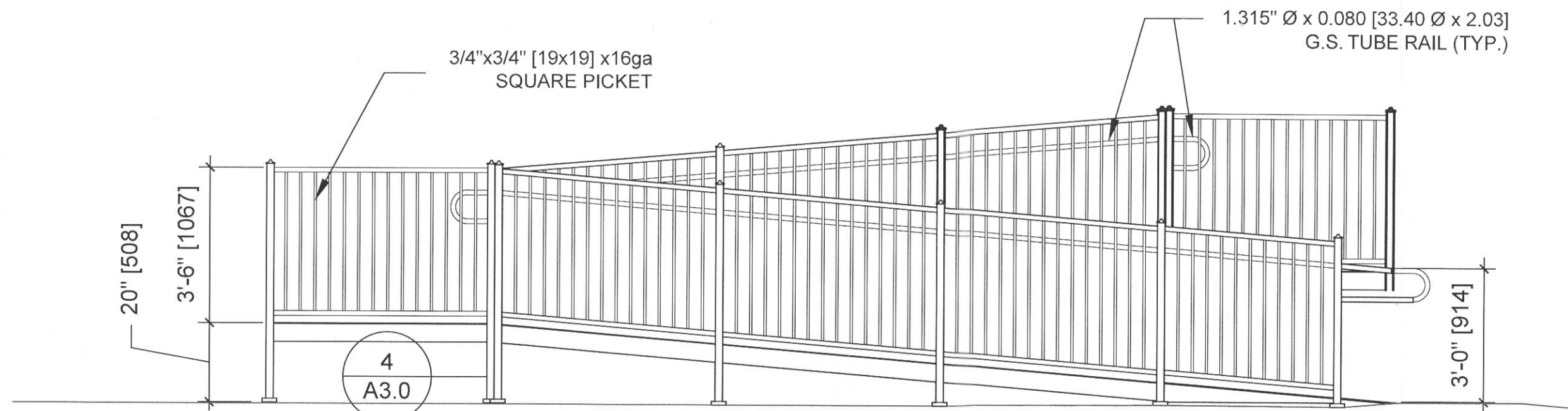
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DATE

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PROJECT TITLE

COMPLETE ACCESS
35' RAMP w/
SWITCHBACK
ADAWSB35

SHEET TITLE

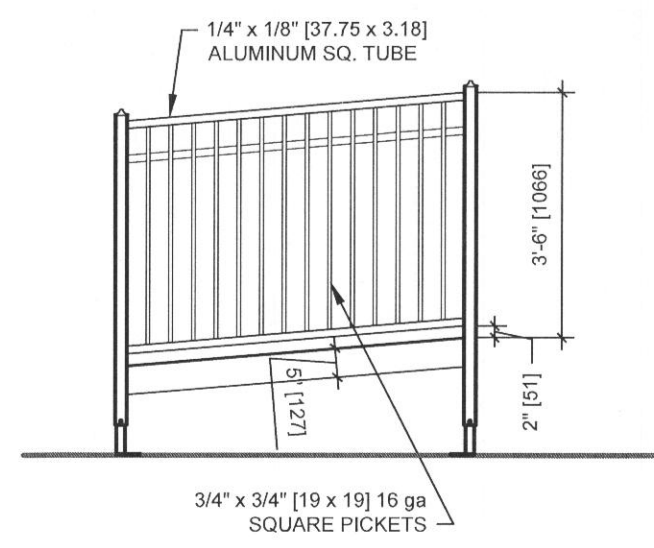
**RAMP PLAN
& DETAILS**

PROJECT NUMBER
14000

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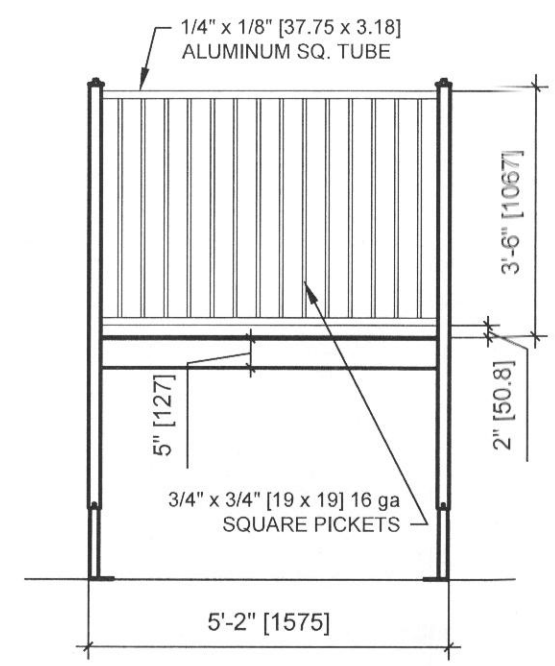
DATE
11/24/2015

SHEET NO.
A3.0



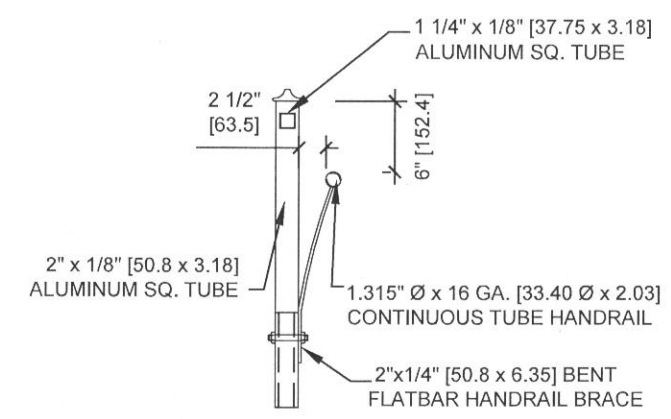
1 RAMP SIDE RAIL

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



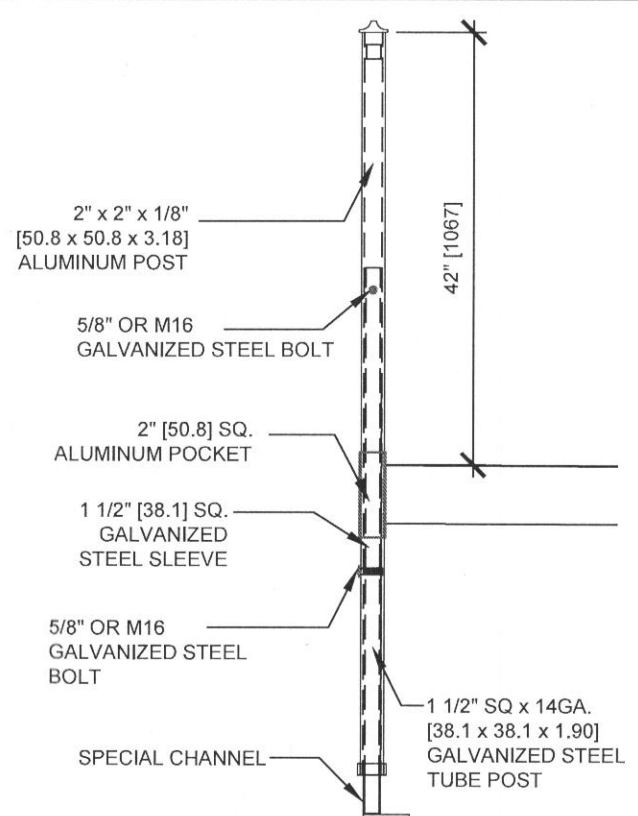
2 RAMP LANDING RAIL

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



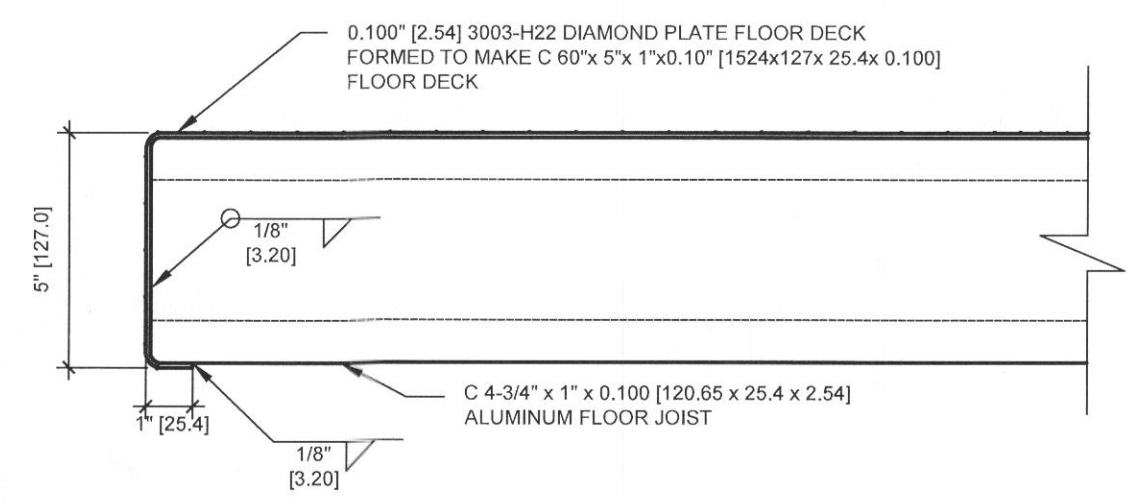
3 HANDRAIL DETAIL

SCALE: 3/4"=1'-0"



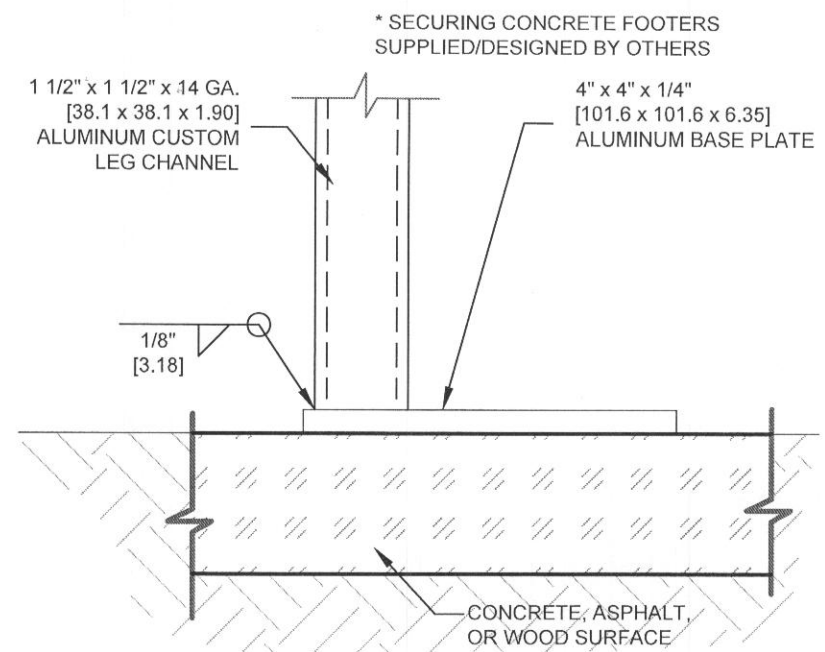
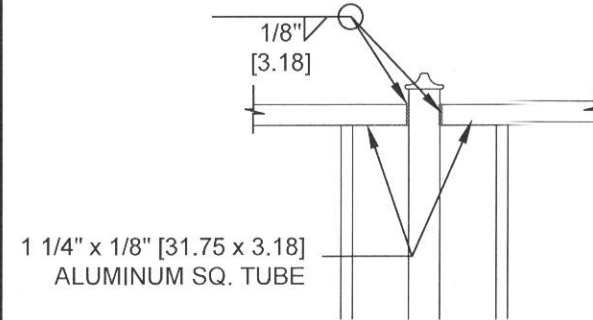
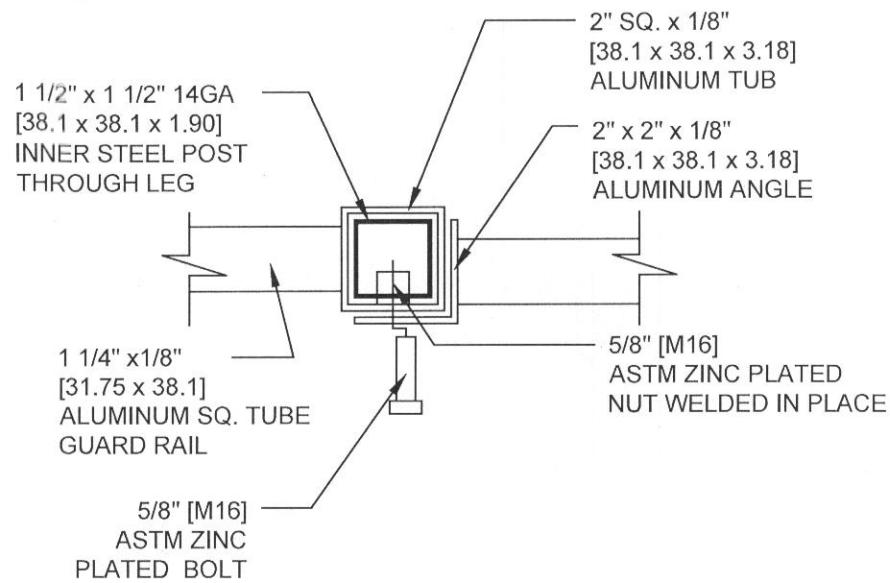
3 POST DETAIL

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



4 DECK CONNECTION

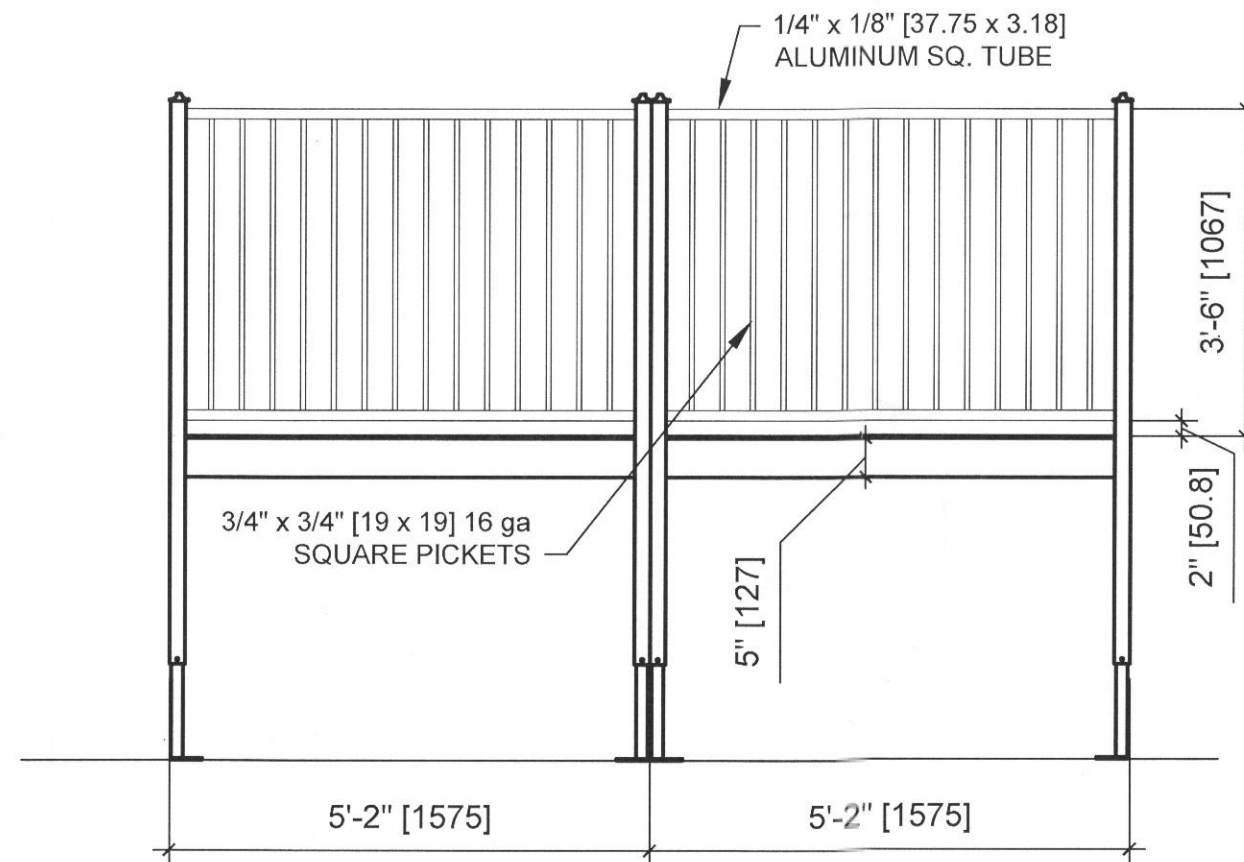
SCALE: 3"=1'-0"



1 RAILING CONNECTION TOP VIEW

2 RAILING CONNECTION SIDE VIEW

3 TYP. FOOTING DETAIL



4 RAMP LANDING RAIL

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



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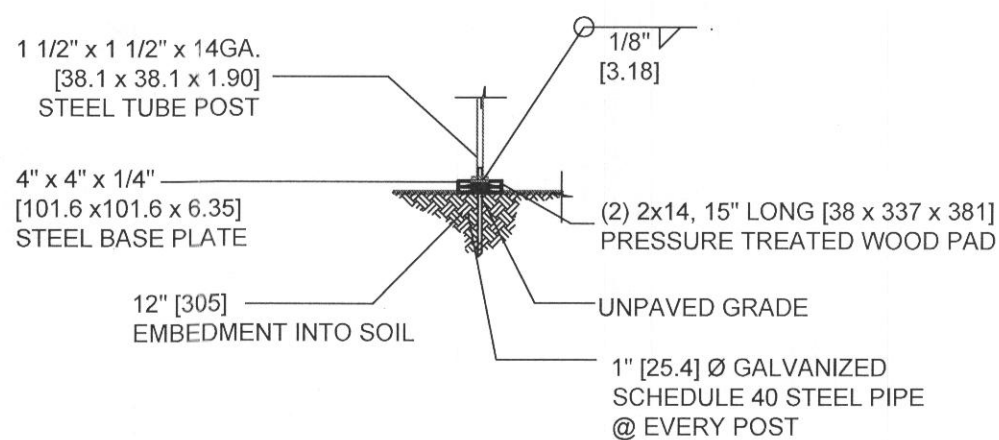
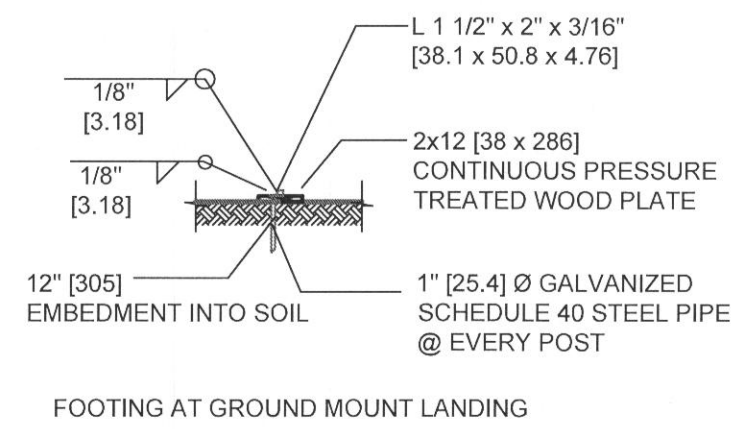
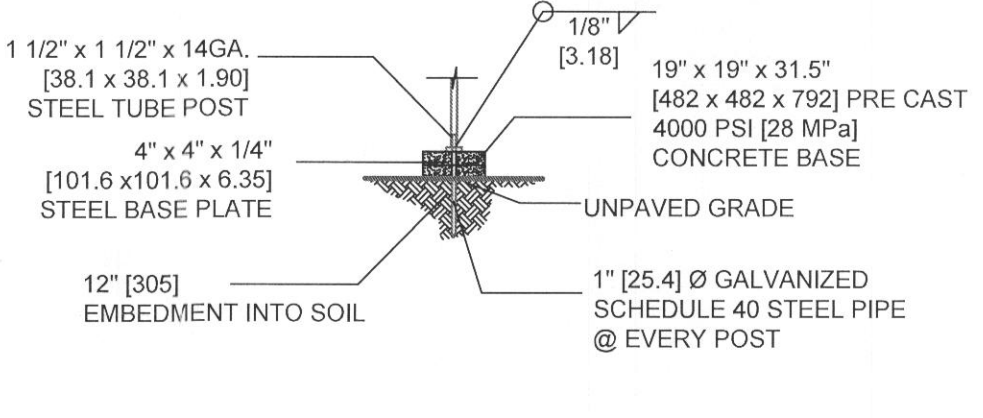
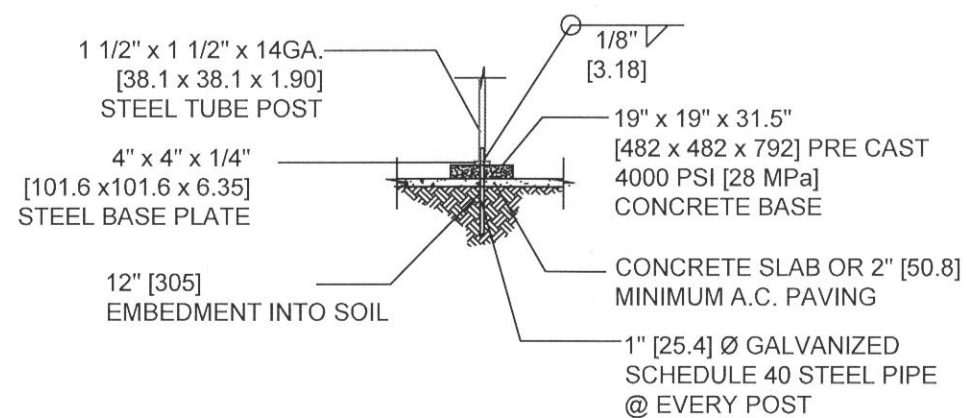
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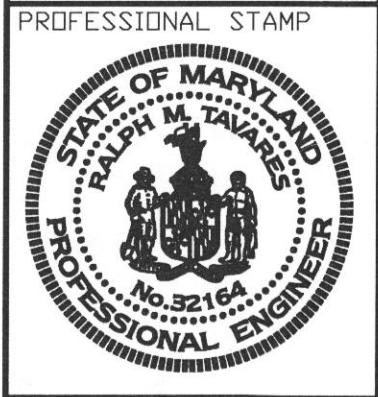
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NOTE:
 THE CONCRETE AND WOOD FOOTINGS SHOWN ARE FOR ILLUSTRATION ONLY AND ARE NOT PART OF THE RAMP/LANDING STAIR/LANDING OR RAMP/STAIR/LANDING ASSEMBLY. THE PADS ARE TO BE USED AT QWNER/USER DISCRETION AND FOLLOWING THE SITE CONDITIONS REQUIREMENTS.



FOOTING AT GROUND MOUNT LANDING

REVISION
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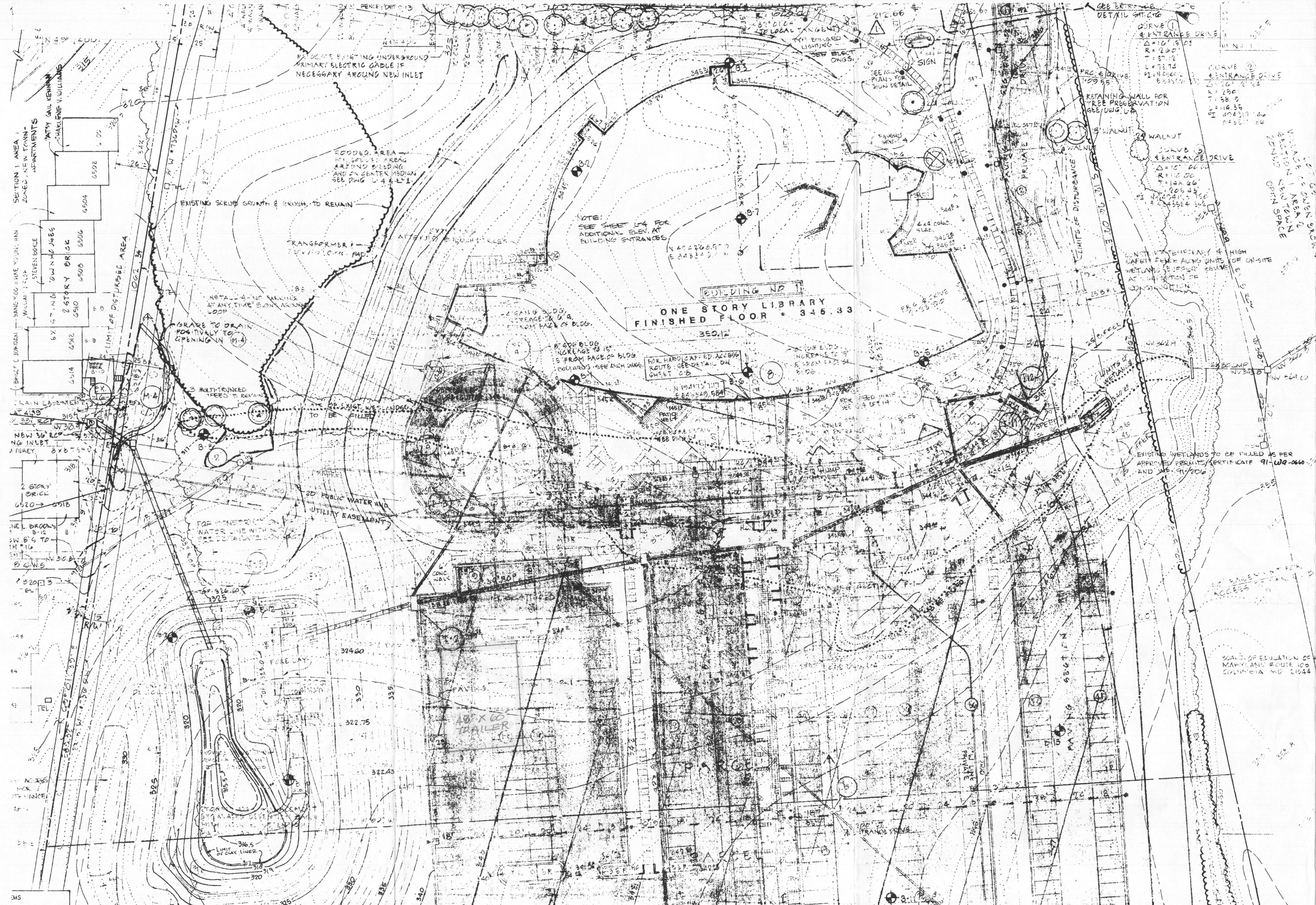


PROJECT TITLE
**COMPLETE ACCESS
 35' RAMP w/
 SWITCHBACK
 ADAWSB35**

SHEET TITLE
**SITE-BUILT
 FOOTING
 DETAILS**

PROJECT NUMBER	14000
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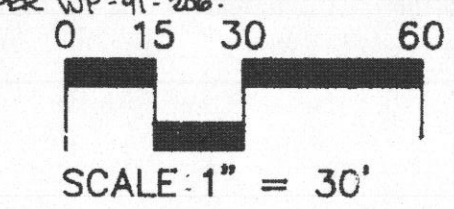


LEGEND

- 1 FT. CONTOUR INTERVAL
- EXISTING CONTOURS
- EXISTING SPOT ELEVATIONS
- PROPOSED CONTOURS
- PROPOSED SPOT-ELEVATION
- EXISTING PAVING
- NEW BITUMINOUS PAVING
- NEW CONCRETE PAVING
- NEW STANDARD 6" CONC. CURB AND GUTTER
- NEW REVERSED 6" CONC. CURB AND GUTTER
- LINE OF EXISTING SCRUB GROWTH & BRUSH
- LINE OF EXISTING SCRUB GROWTH & BRUSH TO REMAIN
- LIMIT OF DISTURBANCE
- CONCRETE WALK, SINGLE LINE INDICATES SCORE, DOUBLE LINE INDICATES EXPANSION JOINT, PAVERS
- NO. OF HANDICAPPED PARKING SPACES
- NO. OF STANDARD PARKING SPACES
- LIMIT OF EXISTING WETLANDS TO BE FILLED
- LIMIT OF EXISTING WETLANDS
- EXISTING DRAINAGE WAYS
- DRAINAGE FLOW
- EXISTING TREE TO BE SAVED
- EXISTING TREE TO BE REMOVED
- NEW EXTERIOR LIGHTING
- NEW BOLLARD EXTERIOR LIGHTING

GENERAL NOTES:

1. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.
2. COORDINATES ARE BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY MONUMENTS.
3. ALL DRIVEWAYS AND PARKING TO BE OWNED AND MAINTAINED BY HOWARD COUNTY.
4. ANY DAMAGE TO COUNTY OWNED RIGHTS-OF-WAY TO BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
5. INSTALLATION OF TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS - FEDERAL HIGHWAY ADMINISTRATION.
6. EXISTING TOPOGRAPHY TAKEN BY SEVOLT, GORE, NENQUIST, & DEBINSKY IN APRIL 1990.
7. THE AREA SHOWN IS LOCATED ON TAX MAP #56.
8. TRENCH DEEPING FOR STORM DRAINAGE SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STD.
9. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF CONSTRUCTION.
10. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS IN ADVANCE OF WORK AT THE SITE.
11. ALL DOWNSPUT DRAINS SHALL BE CONNECTED TO STORM DRAINS UNLESS NOTED.
12. THE DEVELOPER AGREES TO WORK WITH THE DEPARTMENT OF LICENSES AND INSPECTION TO RESOLVE ANY PROBLEMS CAUSED BY ROOF WATER DISCHARGE.
13. HANDICAP PARKING DETAILS SHALL BE IN ACCORDANCE WITH THE MARYLAND BUILDING CODE FOR THE HANDICAPPED, CODE OF MARYLAND REGULATIONS SECTION 10-208 AND DETAILS ON SHEET C-4.
14. RECORDING REFERENCE: F-91-51, PLATT NO. 10208.
15. THIS SITE IS INTENDED TO HAVE AN EARTHWORK BALANCE. MINOR ADJUSTMENTS TO ACHIEVE EARTHWORK BALANCE SHOULD BE DONE WITH THE APPROVAL OF THE ARCHITECT.
16. CONTRACTOR SHALL CONFIRM THE PROVIDED EXISTING TOPOGRAPHIC INFORMATION PRIOR TO PROCEEDING WITH GRADING.
17. EXISTING ZONING IS NEW TOWN - OPEN SPACE.
18. TOTAL AREA OF SITE IS 86,800 SQ. FT.
19. ALL CURB AND GUTTER ON SITE SHALL BE 6" CONCRETE W/ 4" ASP. BUTTER UNLESS OTHERWISE NOTED.
20. REMOVE ALL SCATTERED TREES & SHRUBS WITHIN THE LIMIT OF DISTURBANCE THAT ARE NOT OTHERWISE NOTED TO BE SAVED.
21. HOWARD CO. DEPARTMENT OF PLANNING & ZONING APPLICABLE FILDS: F-91-51, WP-91-206, PDP-212.
22. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS (TO REMAIN) OR THE 25' BUFFER EXCEPT AS APPROVED PER WP-91-206.



2-10-92
DATE

2/12/92
DATE

2/12/92
DATE

DATE

DATE

APPROVED: HOWARD COUNTY BUREAU OF BUILDINGS AND GROUNDS

CHIEF, BUREAU OF BUILDINGS AND GROUNDS

APPROVED: HOWARD COUNTY BUREAU OF UTILITIES

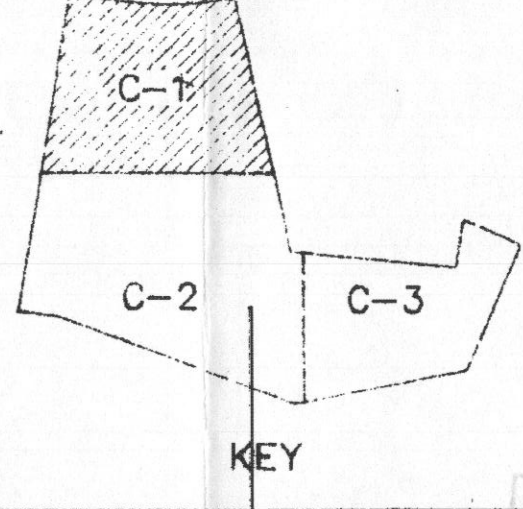
CHIEF, BUREAU OF UTILITIES

APPROVED: HOWARD COUNTY LIBRARY

NOTE: IF CONTRACTOR FINDS ANY UTILITIES NOT SHOWN ON SHEET, NOTIFY MISS UTILITY AT 1-800-487-7272 AS SOON AS POSSIBLE TO ANY EXISTING UTILITIES.

NOTE: ON-SITE STORMWATER MANAGEMENT POND TO BE MAINTAINED BY HOWARD COUNTY.

NO.	DATE	REVISIONS
3	5/17/93	REVISE HC RAMP
2	11-15-92	REVISE GRADING IN POND AND NEAR TOWNHOUSES
1	2-10-92	ADD BOLLARD LIGHTING ADJACENT TO SIDEWALK
NC		



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
LIBRARY PARCEL A	

APPROVED WAIVER WP-91-206
FOR SECTIONS 16.119, 16.123, 16.112(C) & 16.116(C)(6)

SUBDIVISION NAME	VILLAGE OF OWEN BROWN	SECT./AREA	1/4	LOTT/PARCEL #	PARCEL A
PLAT # OR L/4 BLOCK #	10208	TAX/ZONE MAP ELEC. DIST. DENISUS	PS6	6	60671.02
TOWN	10208	SEWER CODE	5410300		

SITE & GRADING PLAN
EAST COLUMBIA LIBRARY

VILLAGE OF OWEN BROWN SECTION 1 AREA 4 PARCELS A19
ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND

OWNER: THE HOWARD COUNTY RESEARCH AND DEVELOPMENT CORPORATION
10836 LITTLE PATENT ROAD, GREENBELT, MARYLAND 21044

DATE: OCTOBER 15, 1991

SHEET 1 OF 19

GRIMM & PARKER ARCHITECTS
4061 POWDERMILL ROAD SUITE 4C1
CALVERTON, MARYLAND 20705 595-1000



SITE AND GRADING PLAN
EAST COLUMBIA LIBRARY
HOWARD COUNTY MARYLAND

C-1

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LICENSES & PERMITS
DIVISION

BUILDING CODES:

1. ATTIC VENTILATION SHALL COMPLY WITH APPLICABLE CODES.
2. ALL LOCKS TO BE UNLOCKABLE FROM INTERIOR WITHOUT THE USE OF A KEY.
3. CORROSION RESISTANT FLASHING REQUIRED AT TOP AND SIDES OF DOORS, WINDOW, AND ROOF PENETRATORS.
4. SAFETY GLAZING SHALL BE INSTALLED PER APPLICABLE CODES.
5. EXTERIOR EGRESS ELEMENTS TO BE SITE PROTECTED FROM SNOW AND ICE ACCUMULATION.
6. DEALER SHALL BE RESPONSIBLE FOR ON SITE BARRIER FREE PROVISIONS INCLUDING ALL: ADA REQUIRED STEPS, RAMPS, HANDRAILS, PARKING, ETC. AND APPLICABLE SIGNAGE (INTERIOR AND EXTERIOR) FOR THE VISUALLY IMPAIRED AND NON-AMBULATORY

BUILDING CODE FIELD NOTES:

1. TIE-DOWN ANCHORING TO BE INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.
2. PLUMBING AND ELECTRICAL CONNECTIONS TO BE PROVIDED AND INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.
3. ALL ADA REQUIRED STEPS, RAMPS, HANDRAILS, PARKING, ETC... AND APPLICABLE SIGNAGE. (INTERIOR AND EXTERIOR) FOR THE VISUALLY IMPAIRED AND NON-AMBULATORY TO BE PROVIDED AND INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.

ELECTRICAL:

1. ALL RECEPTACLES TO BE GROUNDING TYPE.
2. ALL WIRING TO BE PER N.E.C. TYPE NMB (CU) WITH GROUND (90)
3. MAIN PANEL TO BE MARKED "SUITABLE FOR USE AS SERVICE EQUIPMENT", AND HAVE BREAKER/FUSE TYPE OVERCURRENT PROTECTION.
4. PROPER THERMAL OVERLOAD PROTECTION TO BE PROVIDED FOR ALL MOTORS.
5. DISCONNECTING MEANS WITHIN SIGHT REQUIRED FOR ALL MOTORS.
6. WEATHERPROOF PROTECTION REQUIRED FOR ALL OUTDOOR LIGHTS AND / OR RECEPTACLES.
7. PROPER WORKING CLEARANCES TO BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT.
8. ALL FLUORESCENT FIXTURES REQUIRE THERMAL PROTECTION.
9. COMBINATION EXHAUST FAN/LIGHT AND ALL RECESSED INCANDESCENT FIXTURES TO BE WITH THERMAL PROTECTION.
10. ALL EMERGENCY LIGHTING (IF REQUIRED) AND EXIT SIGNS WILL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES PER NEC ARTICLE 700.
11. ALL EMERGENCY LIGHTING HAS A BATTERY PACK TO ASSURE CONTINUED ILLUMINATION.
12. GROUNDING ELECTRODE SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250 N.E.C.
13. MAIN DISTRIBUTION PANEL (S) SHALL BE INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.
14. SERVICE ENTRANCE CONDUCTORS TO BE 75 COPPER TYPE THWN.
15. WATER HEATER (IF APPLICABLE) TO HAVE LOCKABLE BREAKER OR PROVIDE DISCONNECTING MEANS WITHIN SIGHT OF W.H. PER NEC 422

ELECTRICAL FIELD NOTES:

1. ELECTRICAL SERVICE ENTRANCE CONDUCTORS TO BE PROVIDED AND INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.
2. GROUNDING ELECTRODES TO BE PROVIDED AND INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.

DRAWING INDEX:				STATE(S):
SHEET	1 of 9	C1	COVER SHEET / NOTES	MARYLAND BUILDING: 2012 IBC w/MD AMENDS 2012 NFPA 101 w/MD AMENDS PLUMBING: 2012 IPC w/MD AMENDS MECHANICAL: 2012 IMC ELECTRICAL: 2011 NEC ENERGY: ASHRAE 90.1-10 ACCESSIBILITY: ADAAG/2012 MD ACCESSIBILITY CODE
SHEET	2 of 9	A1	EXTERIOR ELEVATIONS	
SHEET	3 of 9	A2	FLOOR PLAN	
SHEET	4 of 9	A3	REFLECTIVE CEILING PLAN	
SHEET	5 of 9	E1	ELEC PLAN	
SHEET	6 of 9	M1	HVAC PLAN	
SHEET	7 of 9	S1	BUILDING CROSS SECTION / DETAILS	
SHEET	8 of 9	S1.1	ROOF FRAMING / DETAILS	
SHEET	9 of 9	FD1	FOUNDATION PLAN AND DETAILS	

NOTICE : APPROVAL IS NOT VALID IN THOSE PORTIONS OF LISTED STATE(S) WHERE THE SNOW LOADS DETERMINED FROM LOCAL METEOROLOGICAL DATA EXCEED THE LISTED LIVE LOAD.

THIS USE OF THIS BUILDING WITHOUT THE REQUIRED AMOUNT OF PLUMBING FACILITIES IS SUBJECT TO THE APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY.

BUILDING OWNER ASSUMES ALL RESPONSIBILITY FOR DRINKING WATER FACILITIES AND SERVICE SINK WHEN NOT SHOWN ON FLOOR PLAN. THE USE OF THIS BUILDING WITHOUT THE REQUIRED SERVICE SINK AND WATER COOLER(S) IS SUBJECT TO THE APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY.

MECHANICAL:

1. VENTILATION AIR, EXHAUST FANS AND VENTING EQUIPMENT PROVIDED IN ACCORDANCE WITH APPLICABLE CODES.
2. EXHAUST FANS TO BE INSTALLED PER APPLICABLE CODES.
3. RETURN AIR VIA RETURN AIR DUCT OR THRU GRILLE AT UNIT.
4. MECHANICAL VENTILATION PER APPLICABLE CODES.
5. DUCT COVERINGS SHALL COMPLY WITH APPLICABLE CODES.
6. DUCTS SHALL BE CONSTRUCTED PER APPLICABLE CODES.

STRUCTURAL:

1. TRUSSES IF INSTALLED TO BE FOR LOAD AND APPLICATION USED.
2. INTERIOR PARTITIONS TO BE CONSTRUCTED TO WITHSTAND A 5 PSF HORIZONTAL FORCE.
3. FOR FIRE-RESISTANT CONSTRUCTION INTERIOR WALL BOARD SHALL BE 1/4" NOM. THICKNESS OR INSTALLED PER APPLICABLE CODES (MATERIALS REQUIRING NON-COMBUSTIBLE BACKING.)
4. ALL LUMBER TO BE GRADED AND MARKED.
5. COMPRESSION PLATES REQUIRED TO ENSURE WOOD TO WOOD CONTACT @ BEARING WALL TO ROOF JOINTS.
6. DADOS AND NOTCHING SHALL NOT OCCUR IN CENTER 1/3 OF LENGTH OF WALL STUDS
7. EXTERIOR BRACING MAY BE PROVIDED WITH WOOD SIDING, 7/16 HARDBOARD SIDING, "STORM BRACE" EXTERIOR SHEATHING 3/8" CDX PLYWOOD W/ EXTERIOR GLUES, OR ANY APPROVED STRUCTURAL GRADE SHEATHING.

PLUMBING:

1. THE USE OF THIS BUILDING WITHOUT THE REQUIRED AMOUNT OF PLUMBING FACILITIES IS TO THE REVIEW AND APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY.
2. WHEN NOT SHOWN ON PLANS THE SERVICE SINK AND DRINKING WATER DISPENSER AS REQUIRED BY CODE IS TO BE SUPPLIED AND SITE INSTALLED BY OTHERS SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY.

RELOCATION OF THIS BUILDING IS SUBJECT TO THE APPROVAL OF THE LOCAL JURISDICTION.

BUILDING INFORMATION:

BUILDING USE GROUP	A-3 (ASSEMBLY - LIBRARY)
TYPE OF CONSTRUCTION	V-B (WOOD FRAME - UNPROTECTED)
SQUARE FOOTAGE	2820 SQ FT, PER MODULE
OCCUPANT LOAD OF BUILDING	26 , OR LESS - USE GROUP "A-3"
NOTE:	TOTAL BUILDING SQUARE FOOTAGE VARIES WITH NUMBER OF MODULES
NOTE:	TOTAL BUILDING OCCUPANT LOAD VARIES WITH NUMBER OF MODULES

BUILDING DESIGN LOADS:

FLOOR LIVE LOAD UNIFORM	100 PSF
FLOOR LIVE LOAD CONCENTRATED	2000 LBS
FLOOR IMPACT LOAD	N/A LBS
FLOOR LIVE LOAD (CORRIDOR)	100 PSF
FLOOR DEAD LOAD	10 PSF
ROOF LIVE LOAD	20 PSF
GROUND SNOW LOAD	35 PSF
ROOF DEAD LOAD	10 PSF
FLAT ROOF SNOW LOAD	23.10 PSF
SNOW EXPOSURE FACTOR	1.00
SNOW LOAD IMPORTANCE FACTOR	1.10
THERMAL FACTOR	1.0
RAIN ON SNOW SURCHARGE LOAD	N/A
BASIC WIND SPEED	150/116 MPH (Vult/Vasd)
WIND IMPORTANCE FACTOR	1.15
BUILDING CATEGORY	I
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	-6.7 END ZONE
INTERNAL PRESSURE COEFFICIENT	-4 INT. ZONE
DESIGN WIND PRESSURE	-19.8 PSF
SEISMIC USE GROUP	I
SEISMIC IMPORTANCE FACTOR	1.25
SPECTRAL RESPONSE COEFFICIENT SDS	0.1
SPECTRAL RESPONSE COEFFICIENT SD1	0.040
SITE CLASS	D
BASIC SEISMIC-FORCE-RESISTING SYSTEM	2T
DESIGN BASE SHEAR	4015 LBS (BASED ON 3 MOD SIZE)
SEISMIC DESIGN CATEGORY	C

DWV:

1. DWV PIPING TO BE SCHEDULE 40 PVC.
2. ALL PIPES TO BE SECURED @ 48" O.C.
3. ALL CLEAN-OUTS SHALL BE ACCESSIBLE, PROVIDED @ THE BASE OF ALL WASTE AND SOIL STACKS, AND PROVIDED SO THAT ALL HORIZONTAL PIPING CAN BE REACHED WITH A CLEANOUT TOOL WITHOUT PASSING THROUGH MORE THAN 45 DEGREES OF TURN.
4. HORIZONTAL BRANCH PIPES 2 1/2" AND SMALLER IN DIAMETER TO HAVE A MINIMUM 1/4" PERFOOT SLOPE; PIPES 3" TO 6" DIAMETER TO HAVE A MINIMUM OF 1/8" PERFOOT SLOPE.
5. VENTS SHALL BE A MINIMUM OF 3" IN DIAMETER FOR 12" ABOVE AND 24" BELOW ROOF AND SHALL NOT BE LOCATED WITHIN 10' HORIZONTALLY OF OTHER VENT OPENINGS.
6. ALL VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL CHANGE OF DIRECTION SHALL BE THROUGH A LONG TURN T-Y OR COMBINATION WYE AND EIGHTH BEND.
7. ALL HORIZONTAL TO VERTICAL CHANGE OF DIRECTION SHALL BE THROUGH A SANITARY TEE, OR IF @ THE SAME LEVEL ON A VERTICAL STACK, THROUGH AN APPROVED DOUBLE FIXTURE FITTING.
8. IN CONCEALED LOCATIONS AT PLUMBING PIPING, PROTECTIVE SHIELD PLATES SHALL BE INSTALLED THAT ARE A MINIMUM 1/16" THICK STEEL AND SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED AND SHALL EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.

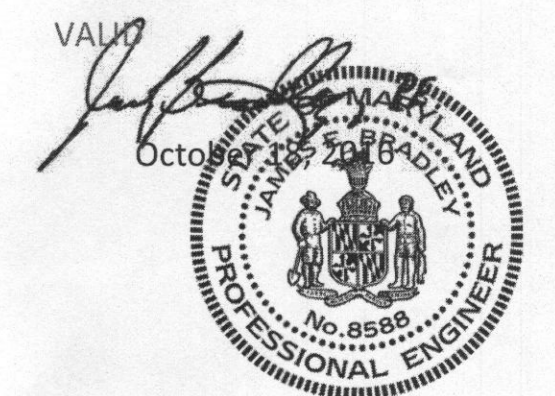
SUPPLY:

1. WATER SUPPLY LINES TO BE TYPE "L" COPPER.
2. ALL PIPES TO BE SECURED @ 72" O.C.
3. WATER TEMPERATURE FACTORY SET @ 120 DEGREES F. (CONTROLS BEHIND COVER PANEL.)
4. A SHUT-OFF VALVE IS REQUIRED FOR EACH FIXTURE.
5. WATER HAMMER ARRESTORS SHALL BE PROVIDED AS REQUIRED WITH QUICK-CLOSING VALVES.
6. WATER HEATER TO BE EQUIPPED WITH DRAIN COCK.
7. DIELECTRIC UNIONS TO BE USED @ CONNECTIONS OF WATER LINES TO WATER HEATER.
8. COLD WATER INLET TO BE WITH A SHUT-OFF VALVE ABOVE FLOOR AND NEAR WATER HEATER.
9. FULL SIZE SHUT-OFF VALVE TO BE PROVIDED BETWEEN BUILDING AND WATER MAIN (METER).
10. SUPPLY SYSTEM DESIGNED FOR INLET PRESSURES OF 60 TO 80 PSI.
11. WATER HEATERS WITH BOTTOM AND/OR SIDE INLETS SHALL HAVE A VACUUM RELIEF VALVE INSTALLED (IF APPLICABLE) IN THE COLD WATER LINE. LOCATE ABOVE THE TOP OF THE WATER HEATER PER MANUFACTURERS RECOMMENDED INSTRUCTIONS.
12. IN CONCEALED LOCATIONS AT PLUMBING PIPING, PROTECTIVE SHIELD PLATES SHALL BE INSTALLED THAT ARE A MINIMUM 1/16" THICK STEEL AND SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED AND SHALL EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.

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J.E.B.
JAMES E. BRADLEY, P.E.
CONSULTING ENGINEER
1765 CARNegie AVENUE
CLEARWATER, FL 33756
PH: (727) 505-9941

STATE(S): MD

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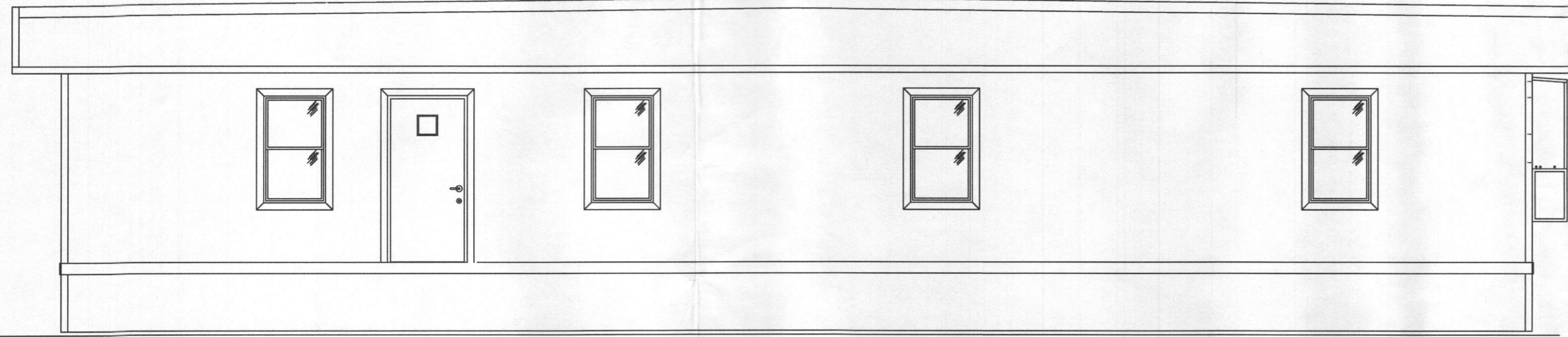
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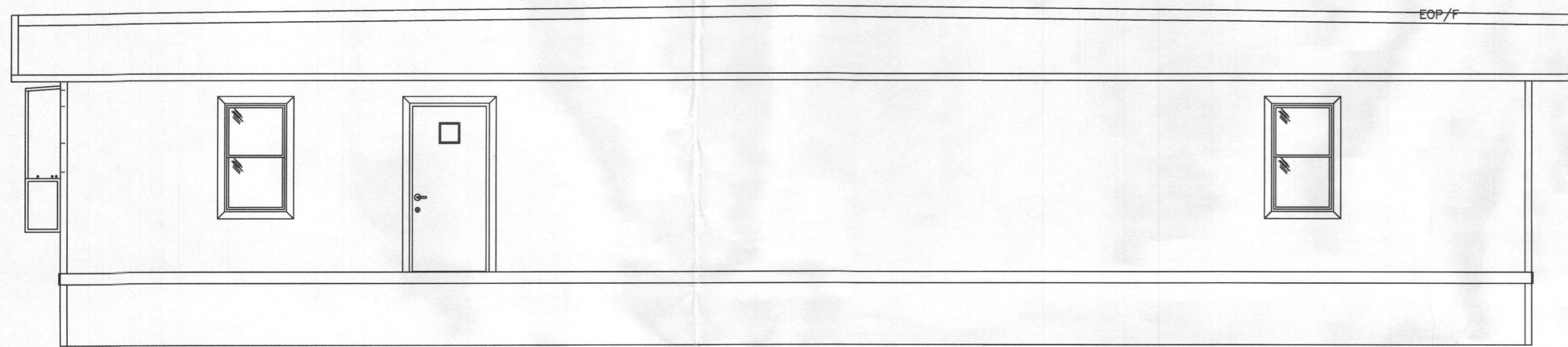
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FILE: _____

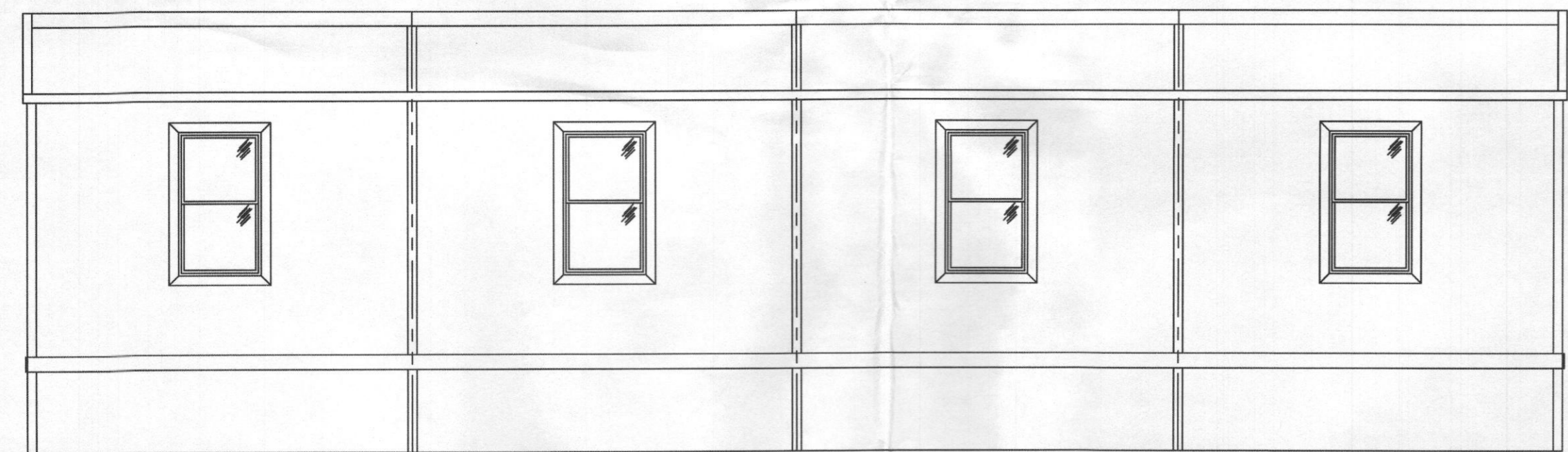
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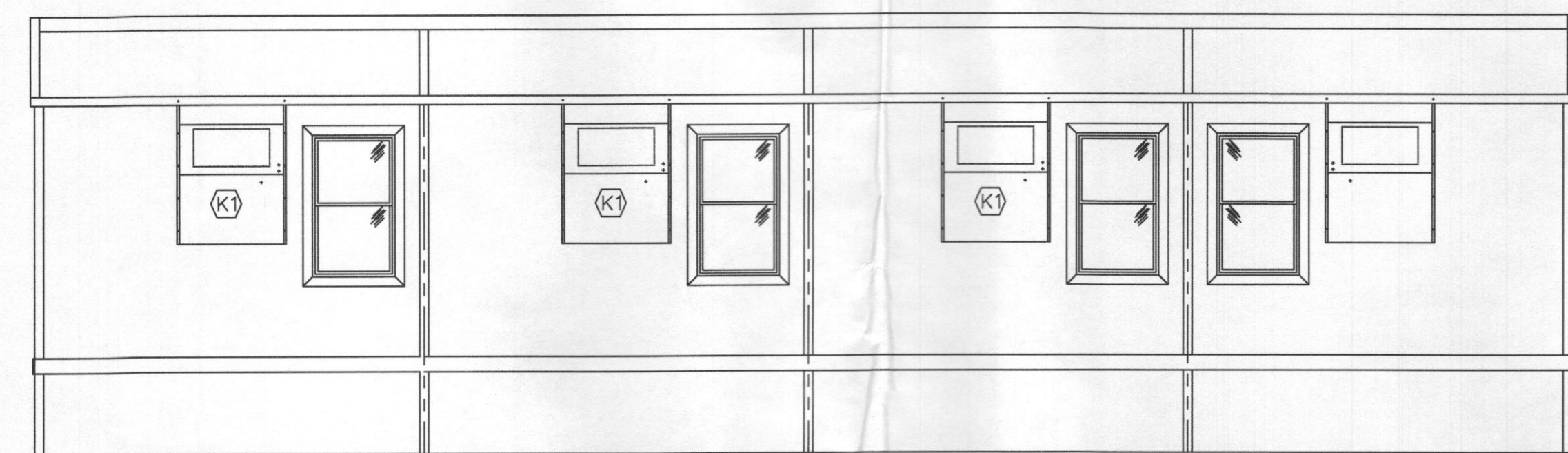
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 SCALE: 3/16"=1'-0"



REAR ELEVATION
 SCALE: 3/16"=1'-0"

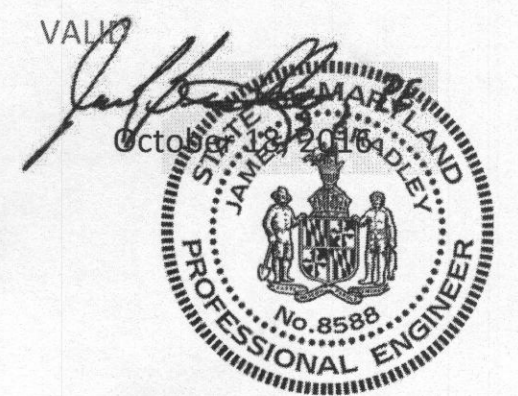


LEFT SIDE ELEVATION
 SCALE: 3/16"=1'-0"



RIGHT SIDE ELEVATION
 SCALE: 3/16"=1'-0"

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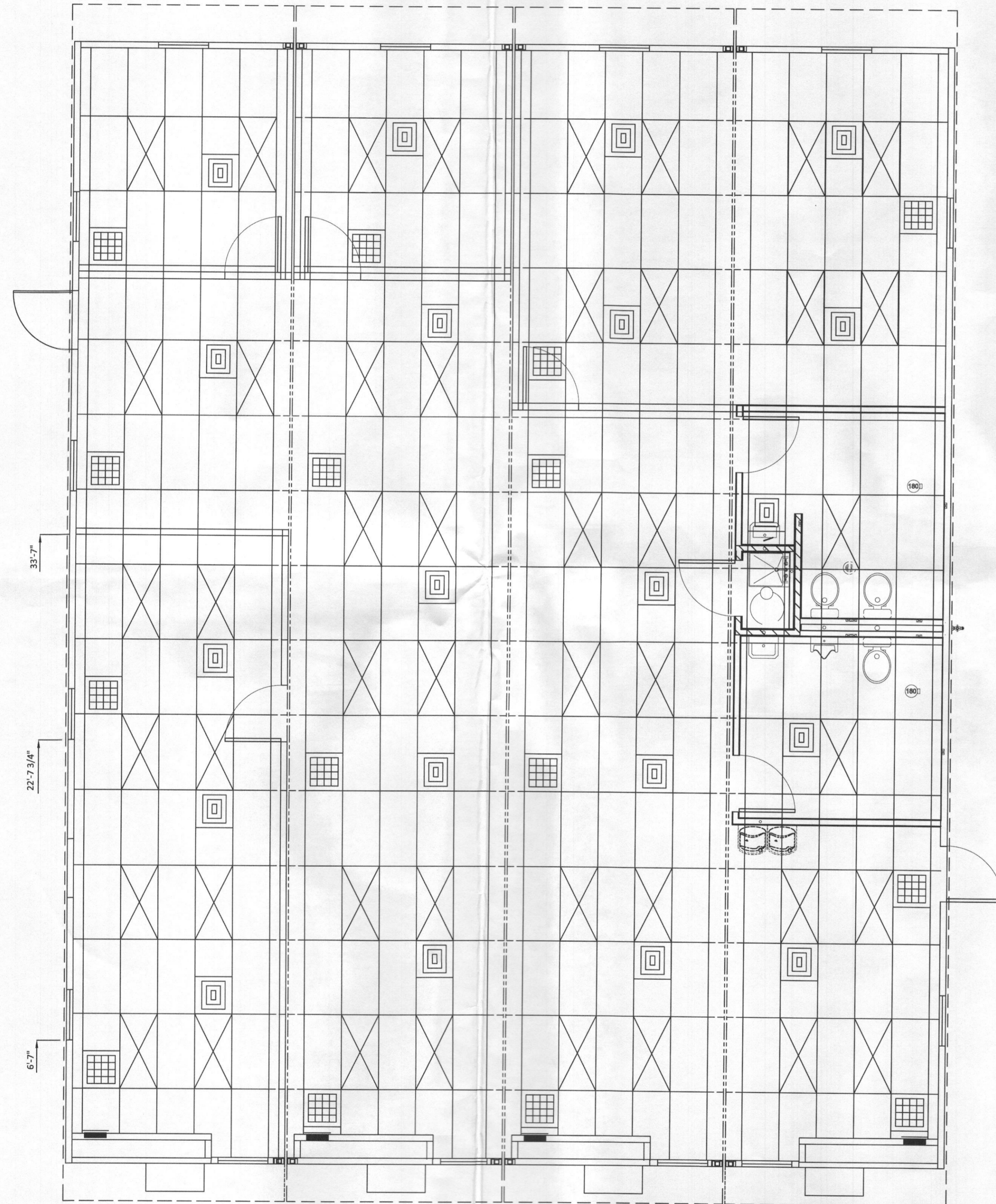


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 CONSULTING ENGINEER
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 CLEARWATER, FL 33756
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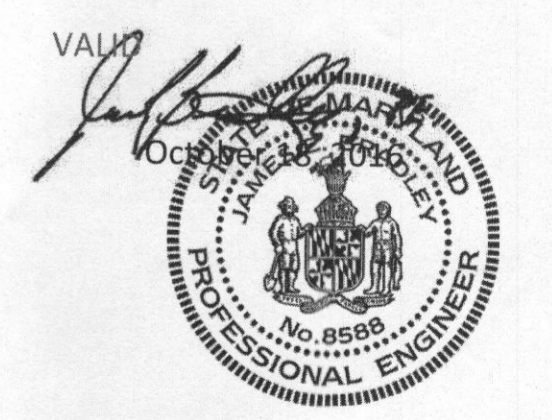
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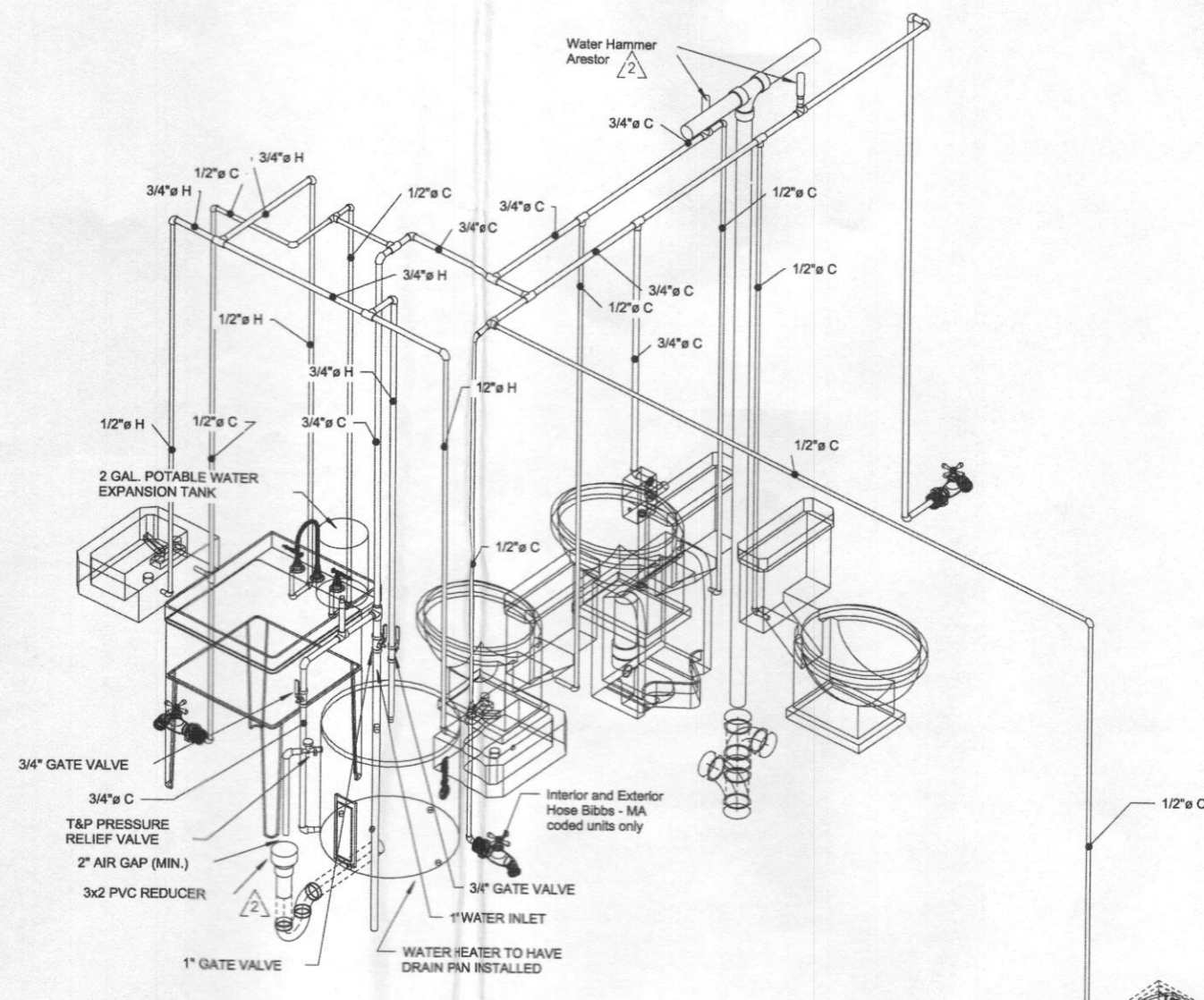
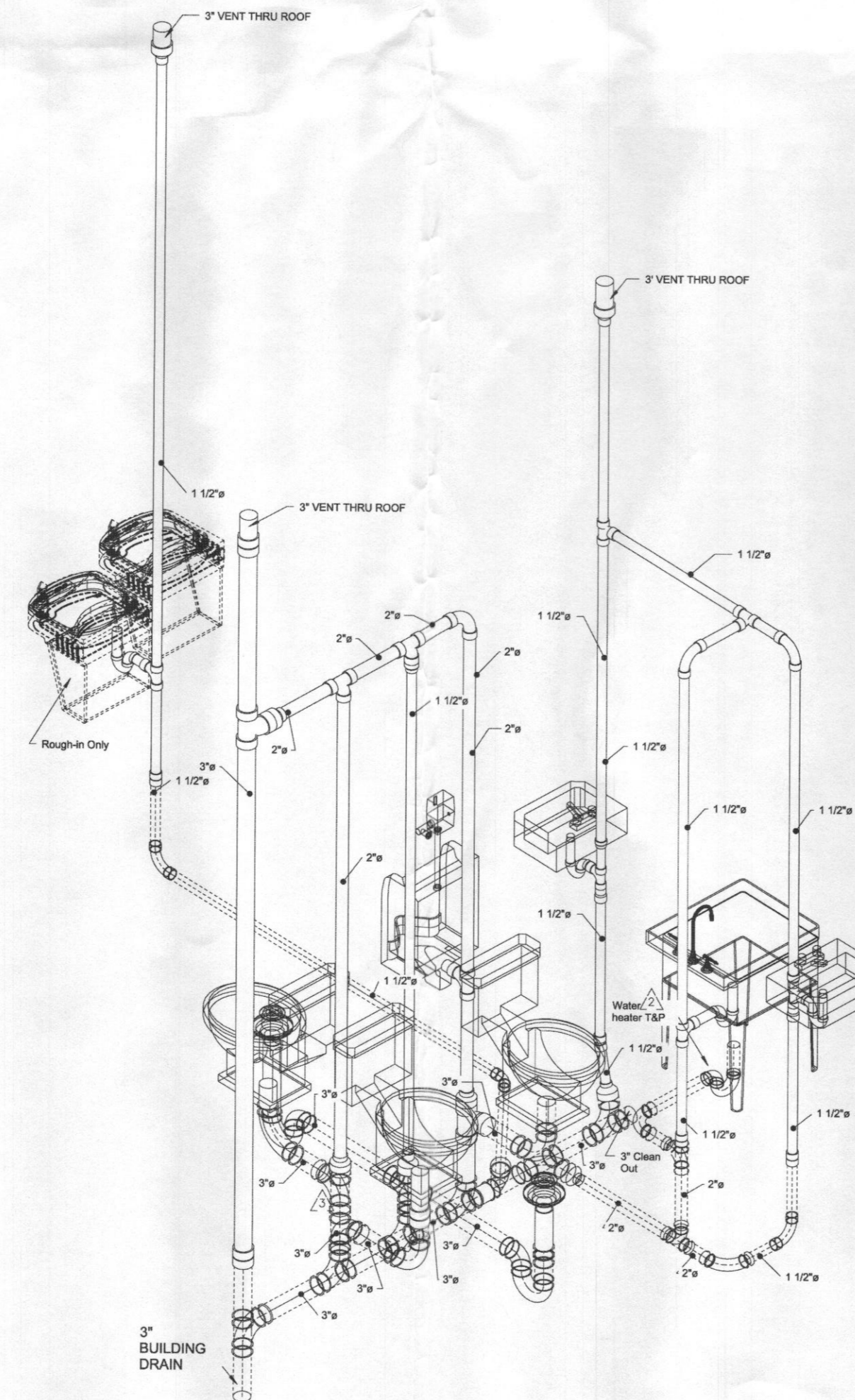
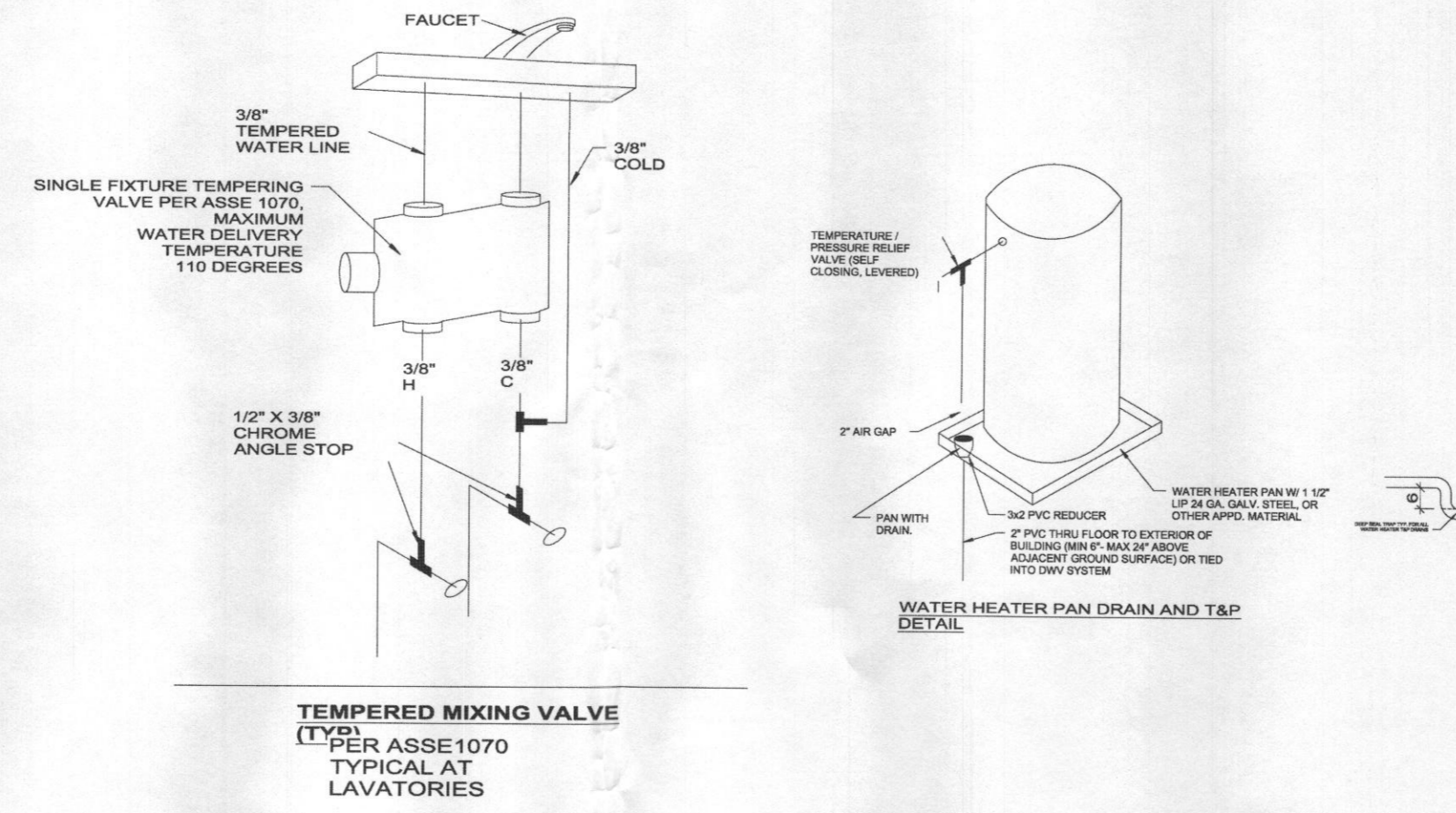
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J.E.B.
 JAMES E. BRADLEY, P.E.
 CONSULTING ENGINEER
 1765 CARNEGIE AVENUE
 CLEARWATER, FL 33766
 Ph: (727) 565-9841

STATE(S): MD

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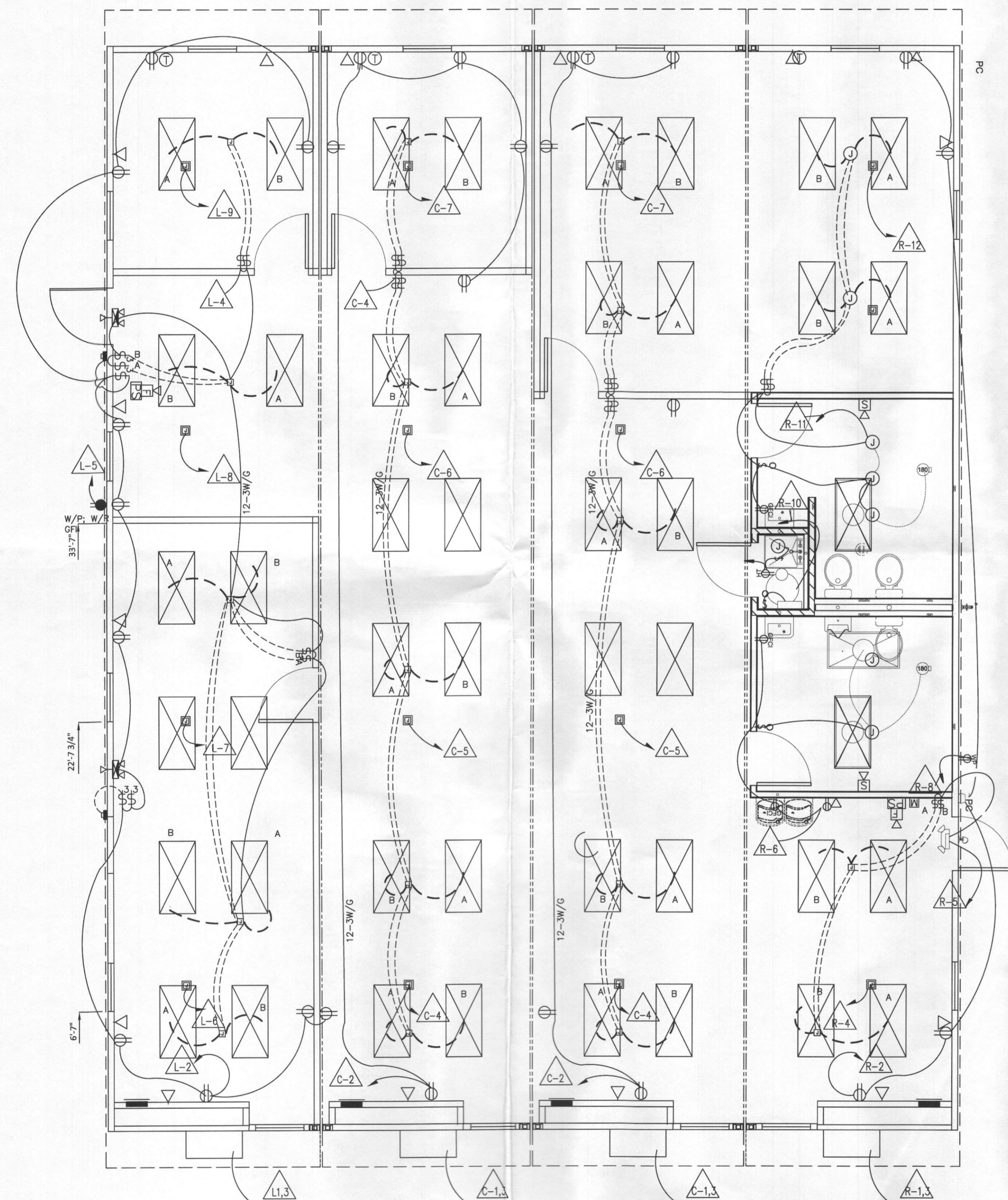
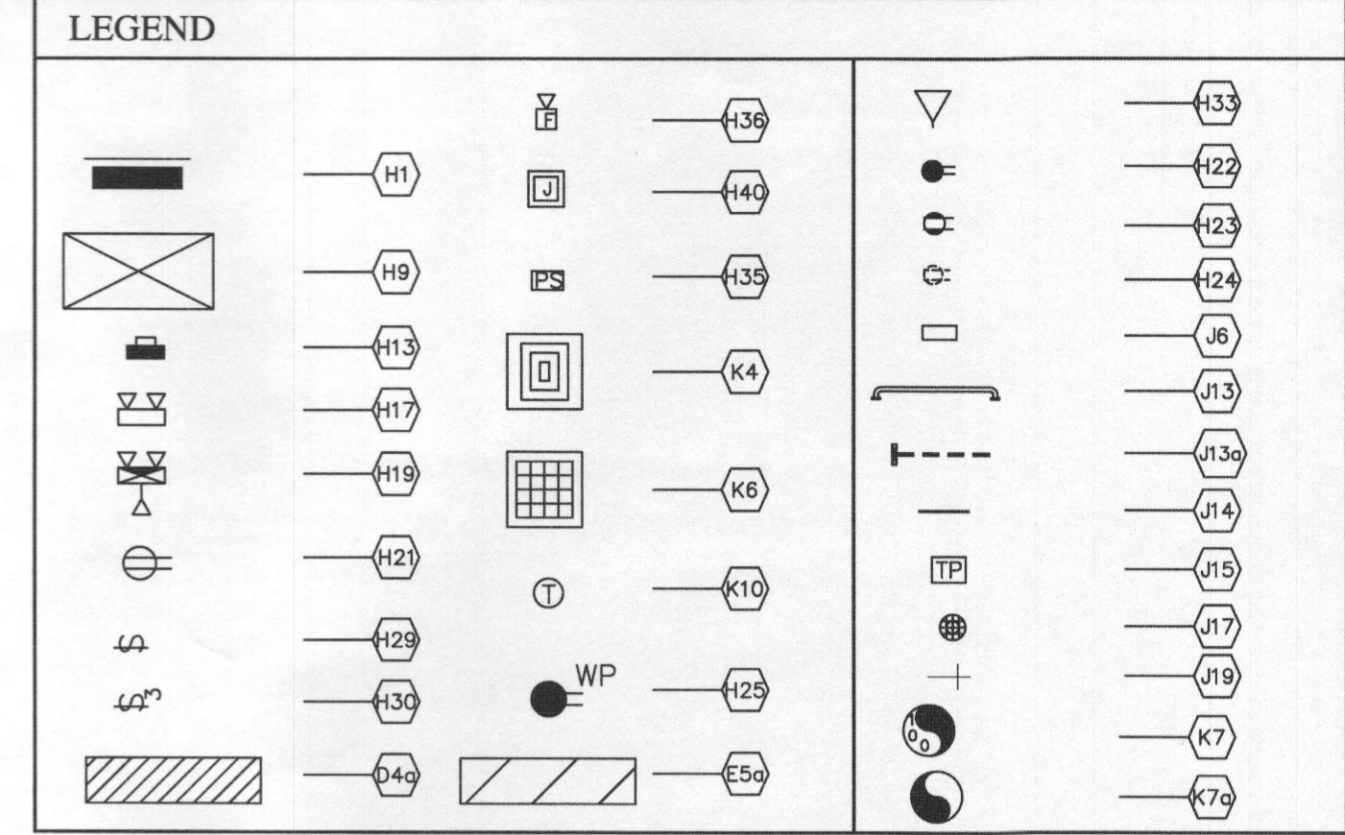
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J.E.B.
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CONSULTING ENGINEER
2765 CARNegie AVENUE
CLEARWATER, FL 33766
Ph: (727) 505-9941

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DATE:



**ELECTRICAL PANEL SCHEDULE
PANEL "L"**

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1,3	HVAC DISCONNECT **	60A (2P) HACR TYPE	6-2 SE w/#8 GRND
2,4	LIGHTS & RECEPTS	20A	12-2 NM THHN
5	LIGHTS & RECEPTS	20A	12-2 NM THHN
6-9	DED J-BOXES	20A (1P)	12-2 NM THHN

**ELECTRICAL PANEL SIZING
PANEL "L"**

DESCRIPTION	KVA
.0035 kW/SF x 700 SF x 1.25	= 3.06
12 RECEPTS @ 180 VA / 1000	= 2.16
4 DED CIRCUIT(S) @ 1.9 kW x 1.25	= 9.50
WATER HEATER @ 6.5 kW	= -
FANS @ .3 kW x 1.25	= -
1 HVAC @ 10.50 kW (EA.)	= 10.50
25.22 TOTAL kW	
TOTAL / 240 x 1000	= 105.08 AMPS
INSTALL 150 AMP PANEL	
120/240 V, 1Ø PHASE	

**ELECTRICAL PANEL SCHEDULE
PANEL "C"**

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1,3	HVAC DISCONNECT **	60A (2P) HACR TYPE	6-2 SE w/#8 GRND
2	RECEPTS	20A	12-2 NM THHN
4	LIGHTS	20A	12-2 NM THHN
5-8	DED J-BOXES	20A (1P)	12-2 NM THHN

**ELECTRICAL PANEL SIZING
PANEL "C"**

DESCRIPTION	KVA
.0035 kW/SF x 700 SF x 1.25	= 3.06
8 RECEPTS @ 180 VA / 1000	= 1.44
4 DED CIRCUIT(S) @ 1.9 kW x 1.25	= 9.50
WATER HEATER @ 6.5 kW	= -
FANS @ .3 kW x 1.25	= -
1 HVAC @ 10.50 kW (EA.)	= 10.50
24.50 TOTAL kW	
TOTAL / 240 x 1000	= 102.08 AMPS
INSTALL 150 AMP PANEL	
120/240 V, 1Ø PHASE	

**ELECTRICAL PANEL SCHEDULE
PANEL "R"**

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1,3	HVAC DISCONNECT **	60A (2P) HACR TYPE	6-2 SE w/#8 GRND
2	RECEPTS	20A	12-2 NM THHN
4	LIGHTS	20A	12-2 NM THHN
5-8	DED J-BOXES	20A (1P)	12-2 NM THHN

**ELECTRICAL PANEL SIZING
PANEL "R"**

DESCRIPTION	KVA
.0035 kW/SF x 700 SF x 1.25	= 3.06
12 RECEPTS @ 180 VA / 1000	= 2.16
4 DED CIRCUIT(S) @ 1.9 kW x 1.25	= 9.50
WATER HEATER @ 6.5 kW	= -
FANS @ .3 kW x 1.25	= -
1 HVAC @ 10.50 kW (EA.)	= 10.50
25.22 TOTAL kW	
TOTAL / 240 x 1000	= 105.08 AMPS
INSTALL 150 AMP PANEL	
120/240 V, 1Ø PHASE	

**ELECTRICAL PANEL SCHEDULE
PANEL "C"**

CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1,3	HVAC DISCONNECT **	60A (2P) HACR TYPE	6-2 SE w/#8 GRND
2	RECEPTS	20A	12-2 NM THHN
4	LIGHTS	20A	12-2 NM THHN
5	RECEPT	20A	12-2 NM THHN
6-9	DED J-BOXES	20A (1P)	12-2 NM THHN

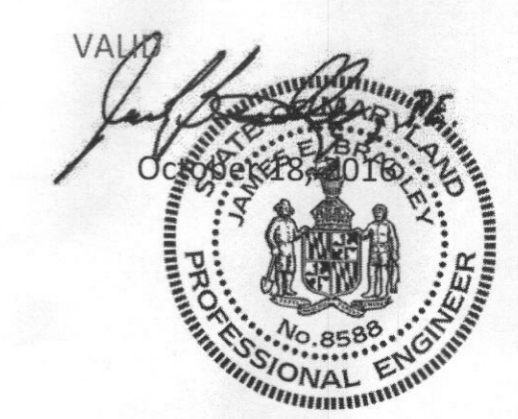
**ELECTRICAL PANEL SIZING
PANEL "C"**

DESCRIPTION	KVA
.0035 kW/SF x 700 SF x 1.25	= 3.06
12 RECEPTS @ 180 VA / 1000	= 2.16
4 DED CIRCUIT(S) @ 1.9 kW x 1.25	= 9.50
WATER HEATER @ 6.5 kW	= -
FANS @ .3 kW x 1.25	= -
1 HVAC @ 10.50 kW (EA.)	= 10.50
25.22 TOTAL kW	
TOTAL / 240 x 1000	= 105.08 AMPS
INSTALL 150 AMP PANEL	
120/240 V, 1Ø PHASE	

ELEC PLAN
SCALE: 3/16"=1'-0"

NOTE: STUB UP (3) EMPTY 3/4" EMT (2) TO ABOVE CEILING IN EACH PANEL & (1) TO BELOW FLOOR IN EACH PANEL FOR SITE USE (TYP. EACH PANEL).

NOTE: WIRING IN CEILING CAVITY TO BE IN MC CABLE

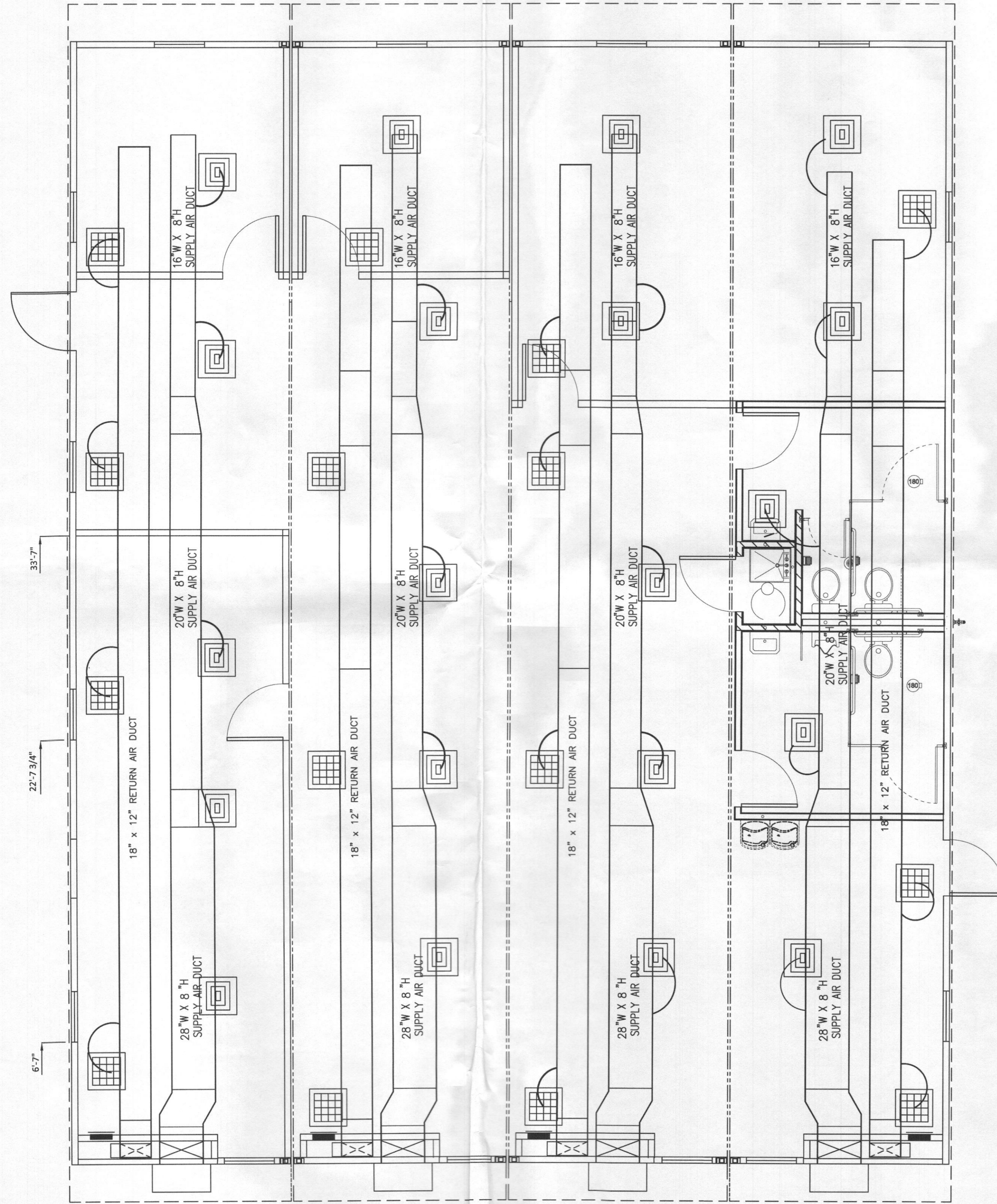


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J.E.B.
JAMES E. BRADLEY, P.E.
CONSULTING ENGINEER
1765 CARNEGIE AVENUE
CLEARWATER, FL 33756
PH: (727) 505-9941

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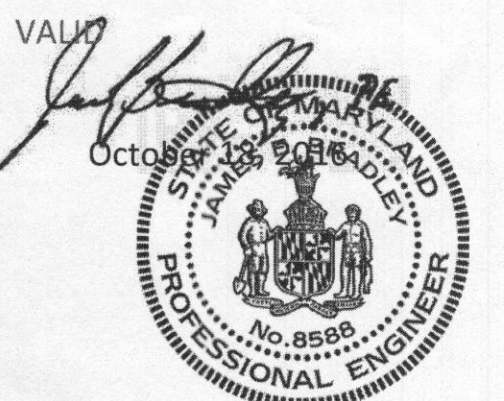


HVAC PLAN
 SCALE: 3/16"=1'-0"

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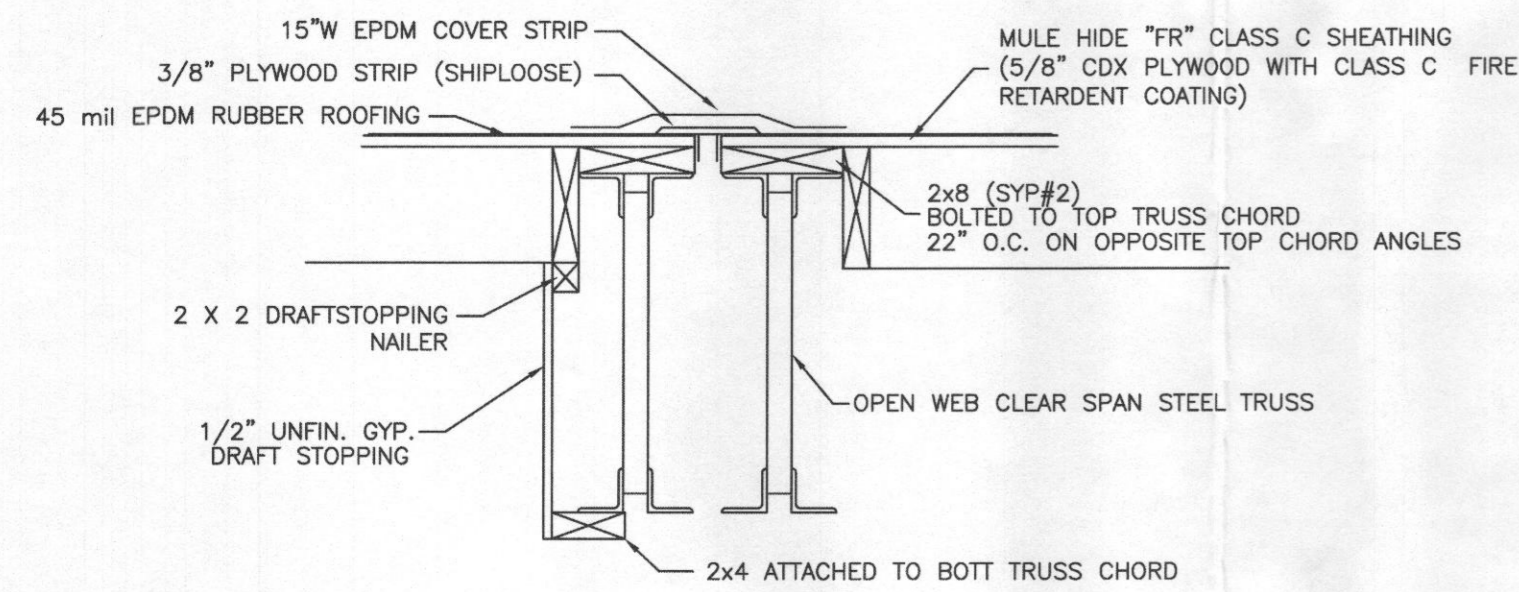
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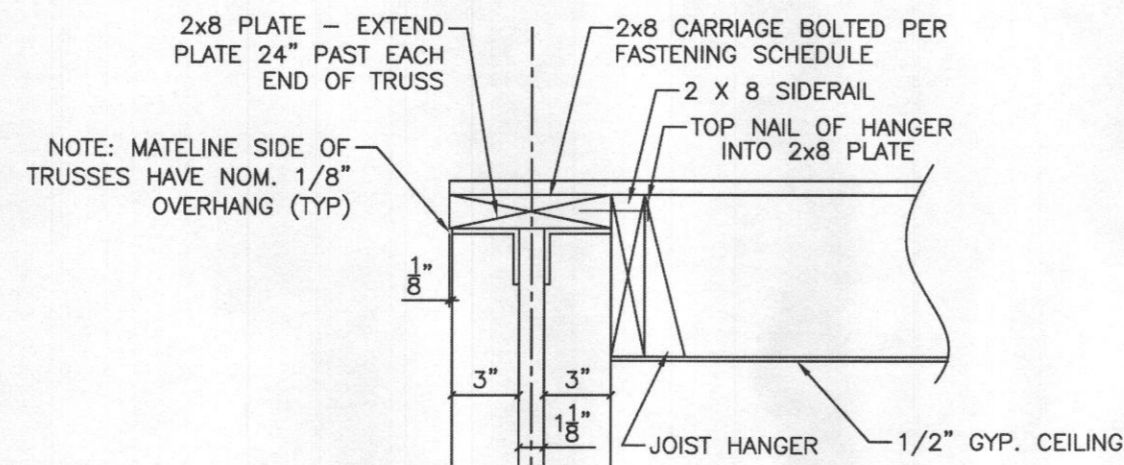
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MATELINE DRAFT STOP DETAIL

NOTE: DRAFT STOP TO BE INSTALLED @ (4) MODULES INTERVALS

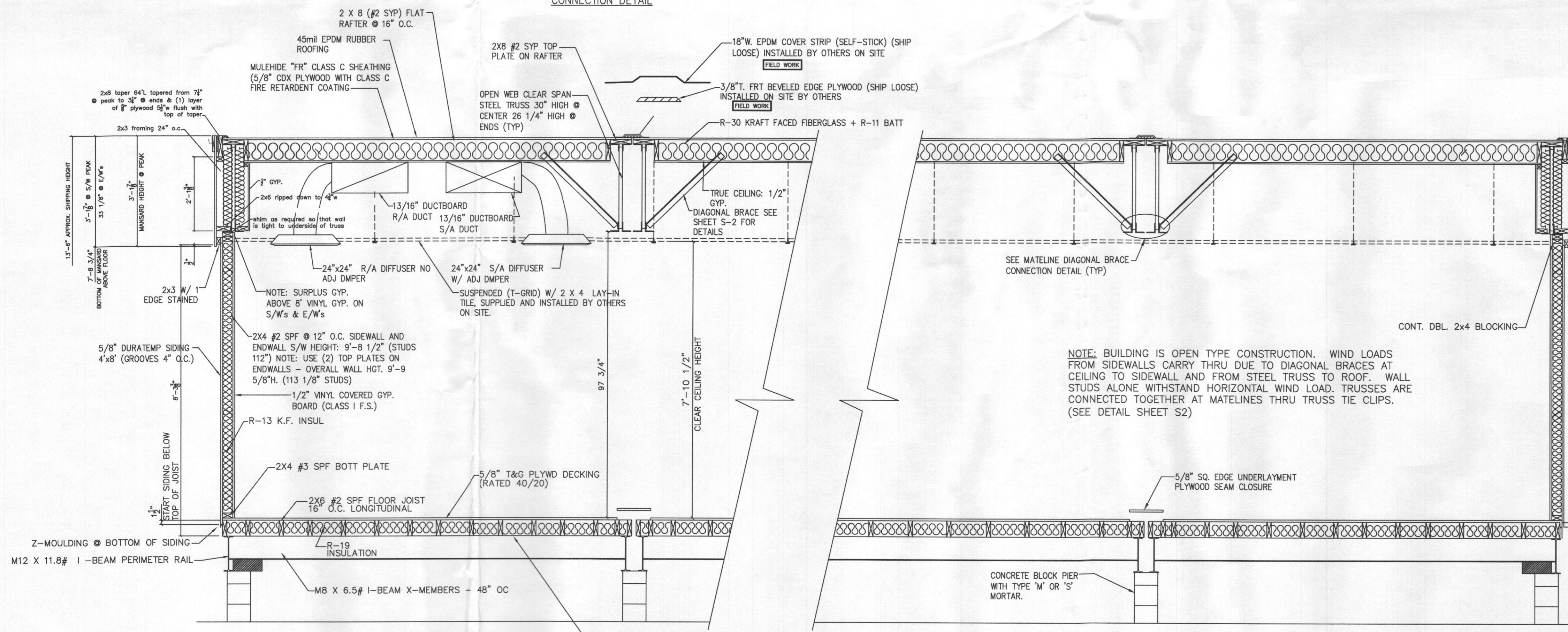


MATELINE DETAIL

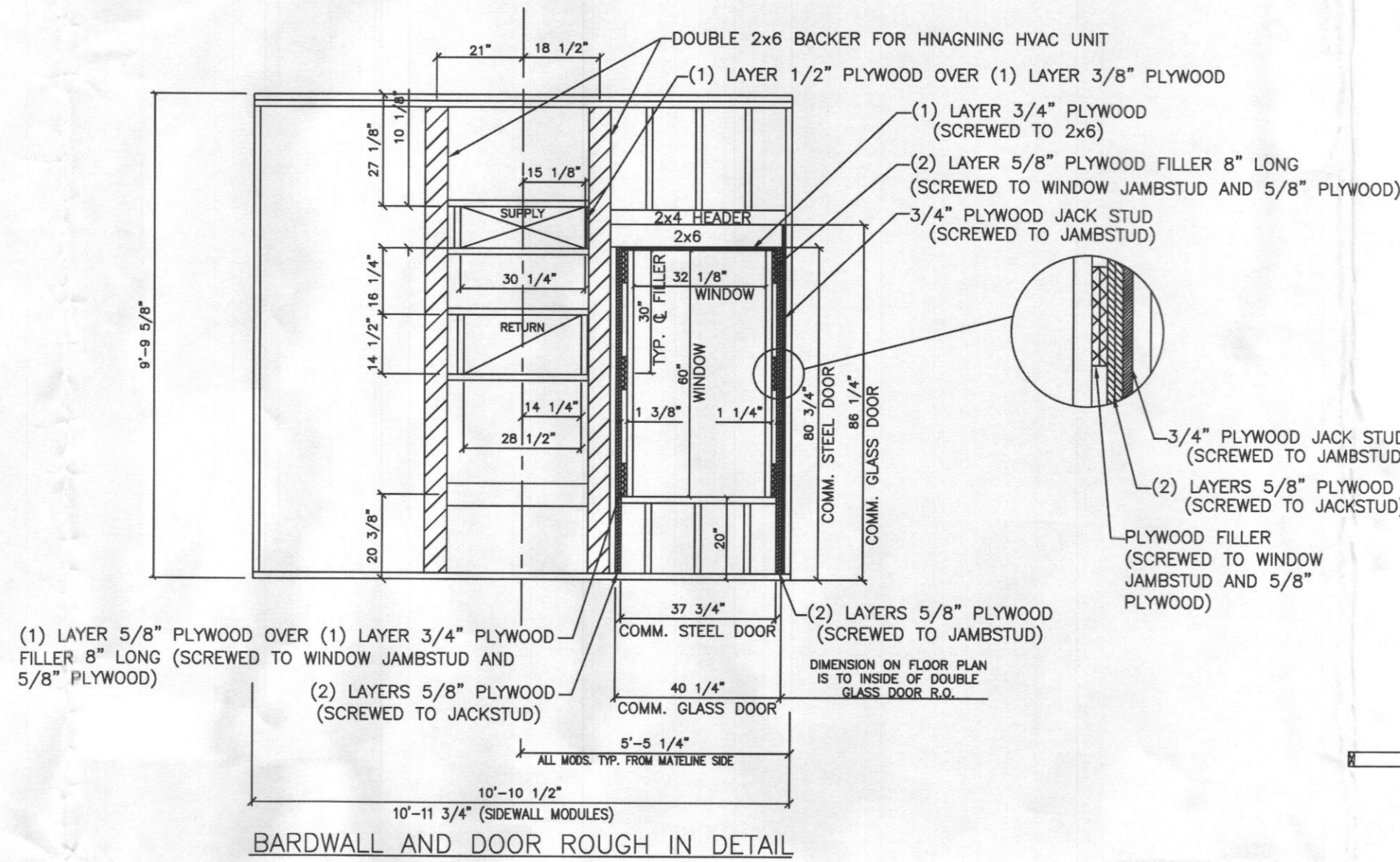
DIAGONAL BRACE
1 1/2"x1 1/2"x1/2" STEEL ANGLE
(4) PER MATELINE
(8) TOTAL PER CENTER MOD.
LOCATE AT 12', 24', 36' & 48'
FROM REAR
FOR STD. (REDI-PLEX) 60' TRUSS
DEL. PITCH 26 1/4" ENDS
30" CENTER PEAK

ANGLE WELDED TO BOTTOM CHORD ANGLES

MATELINE DIAGONAL BRACE CONNECTION DETAIL

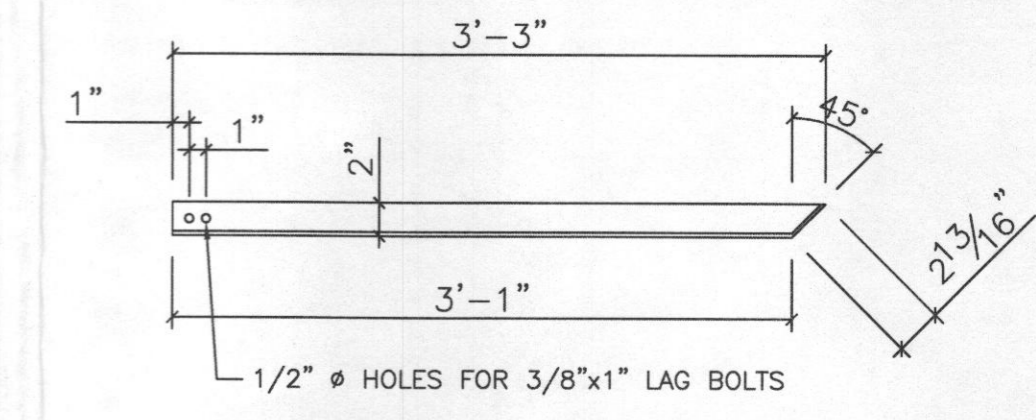


BUILDING CROSS SECTION
SCALE: 3/16"=1'-0"



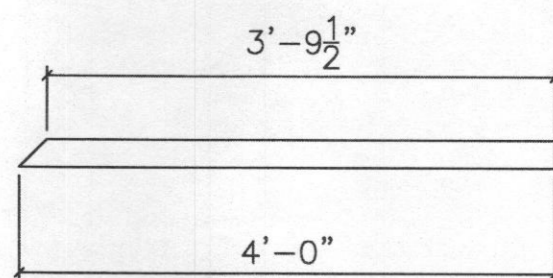
BARDWALL AND DOOR ROUGH IN DETAIL

MODEL # 6392
REDI-PLEX (2005)



DIAGONAL BRACE DETAIL

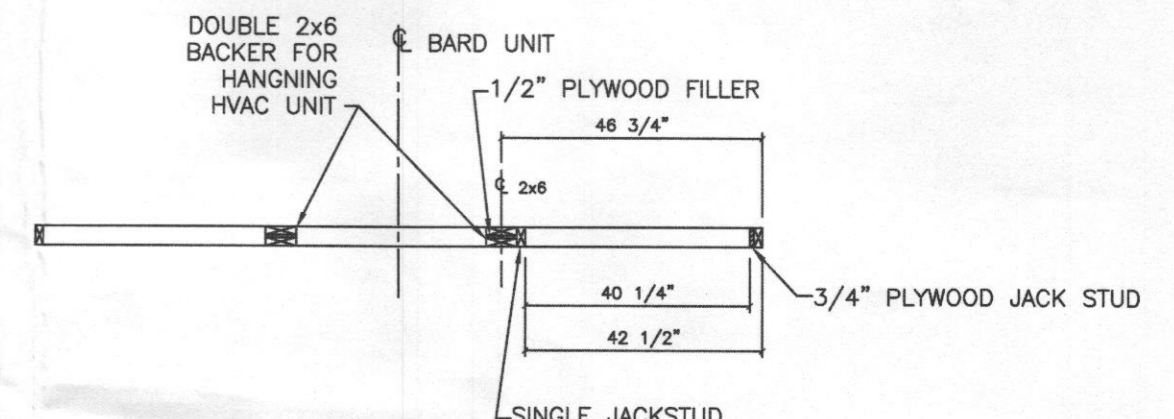
1 1/2"x1 1/2"x1/4" ANGLE OR 2"x2"x1/4" ANGLE
TOTAL STEEL BRACES: 104



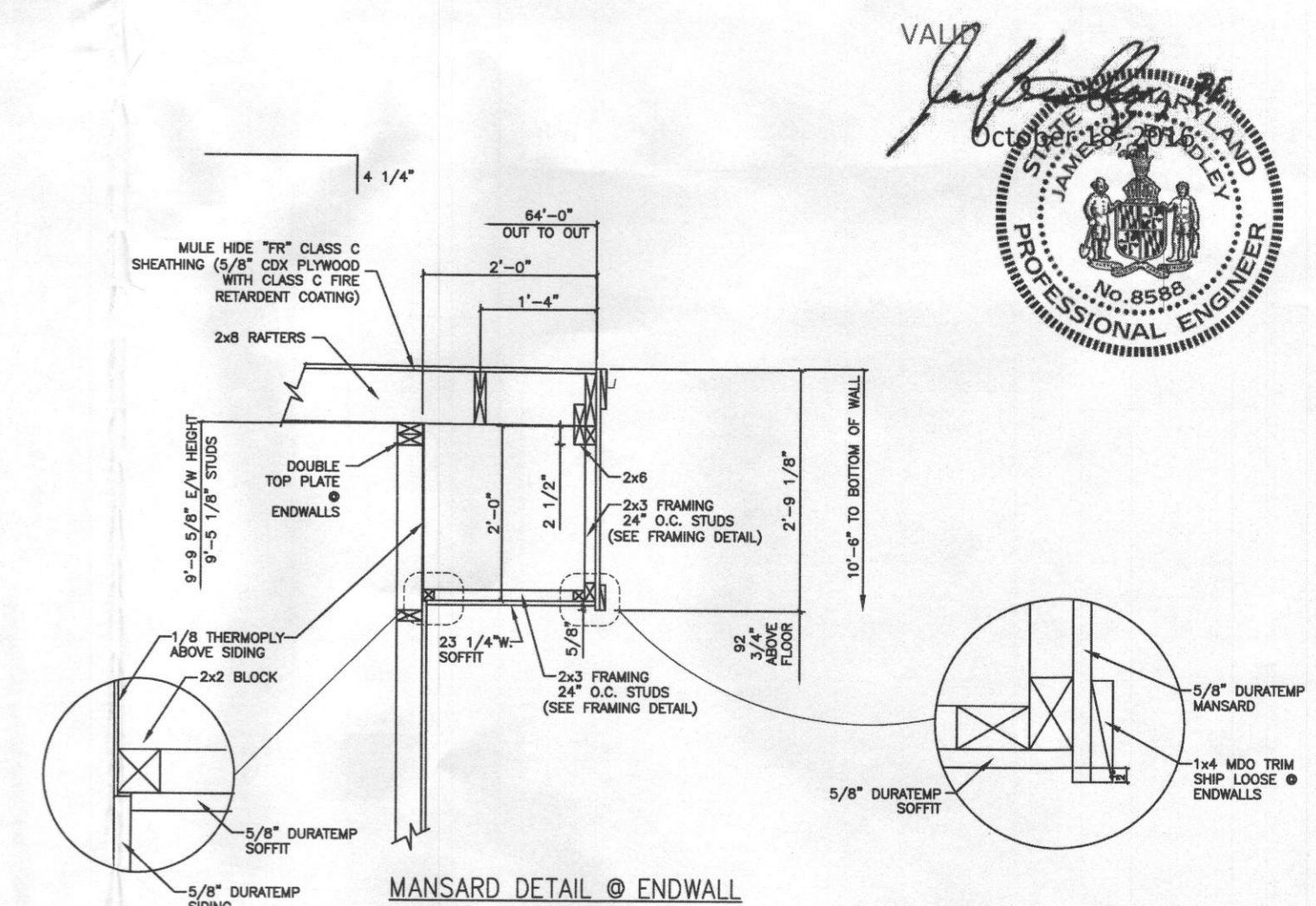
WOOD BRACE DETAIL

2x3 DIAGONAL BRACE @ SIDEWALLS
4 REQ. PER SIDEWALL MODULE
LOCATE AT 12', 24', 36' & 48'
FROM REAR.

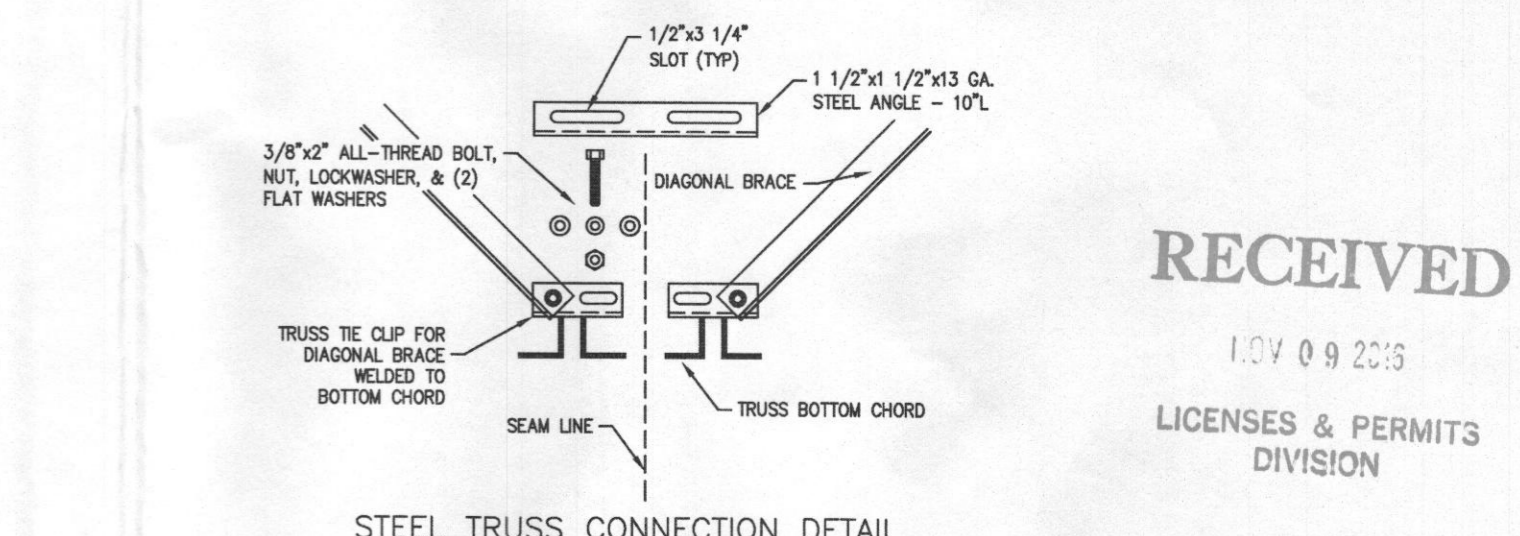
TOTAL WOOD BRACES: 8



BARDWALL AND DOOR ROUGH IN TOP VIEW

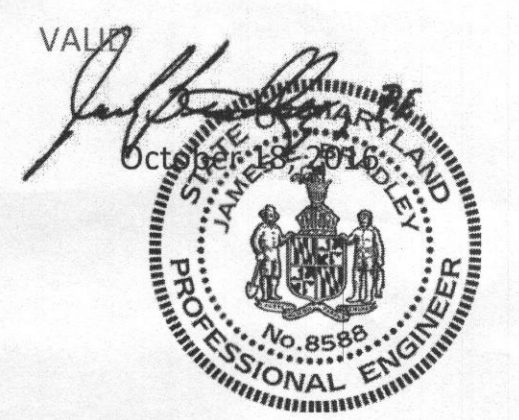


MANSARD DETAIL @ ENDWALL



STEEL TRUSS CONNECTION DETAIL

NOTE: BUILDING IS OPEN TYPE CONSTRUCTION. WIND LOADS FROM SIDEWALLS CARRY THRU DUE TO DIAGONAL BRACES AT CEILING TO SIDEWALL AND FROM STEEL TRUSS TO ROOF. WALL STUDS ALONE WITHSTAND HORIZONTAL WIND LOAD. TRUSSES ARE CONNECTED TOGETHER AT MATELINES THRU TRUSS TIE CLIPS. (SEE DETAIL SHEET S2)



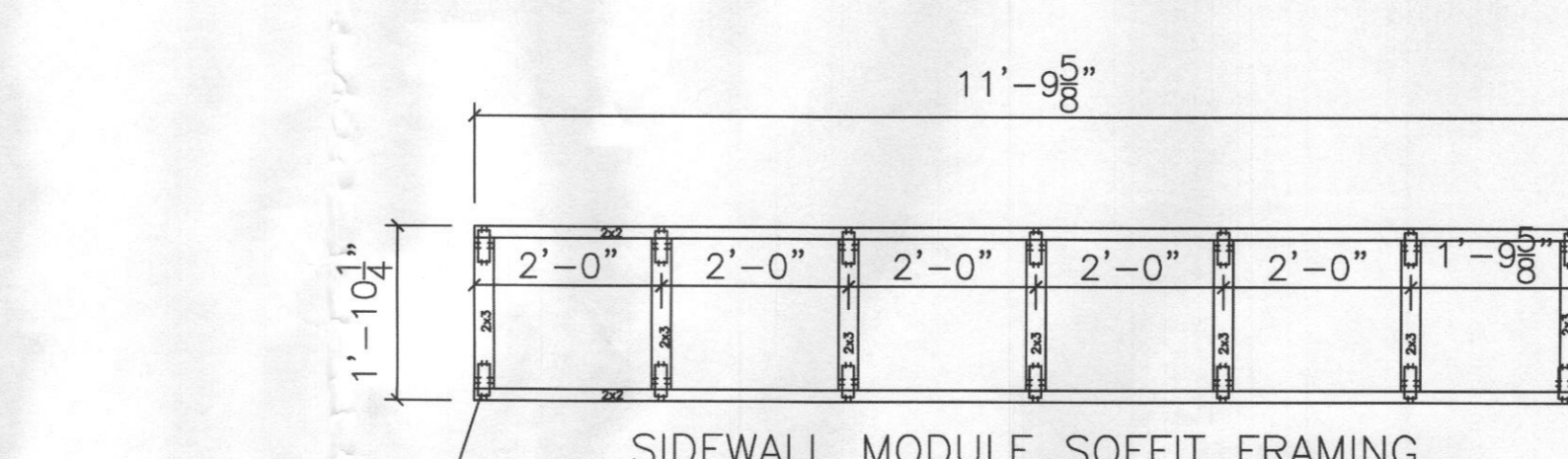
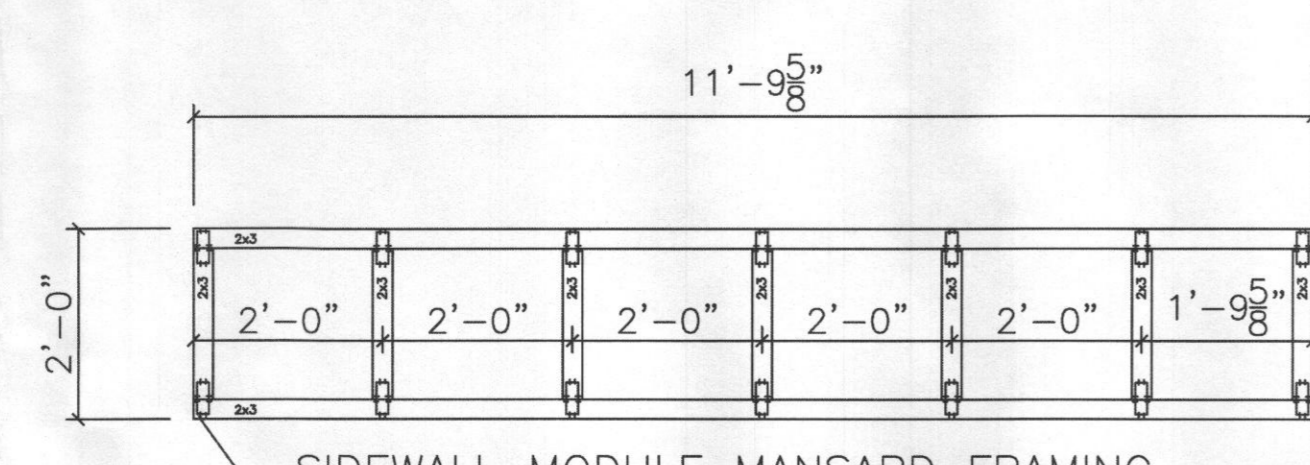
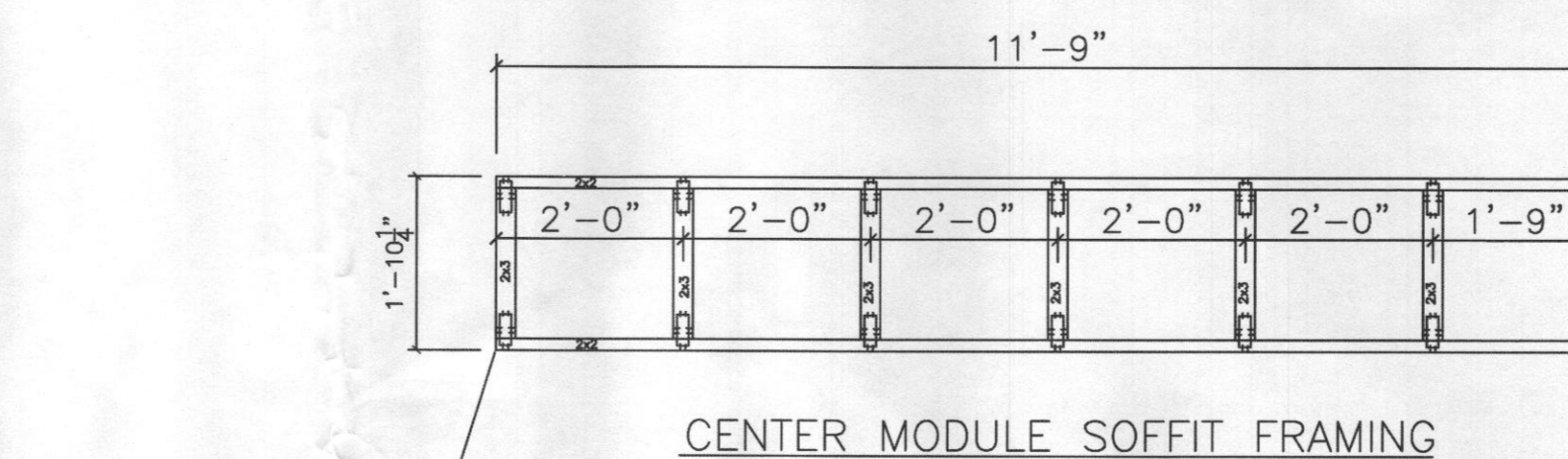
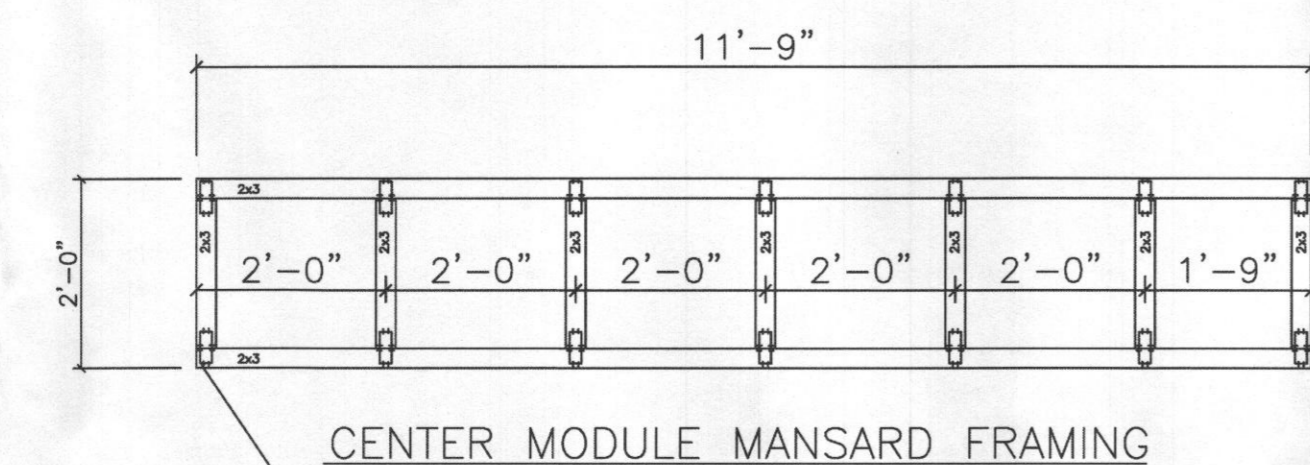
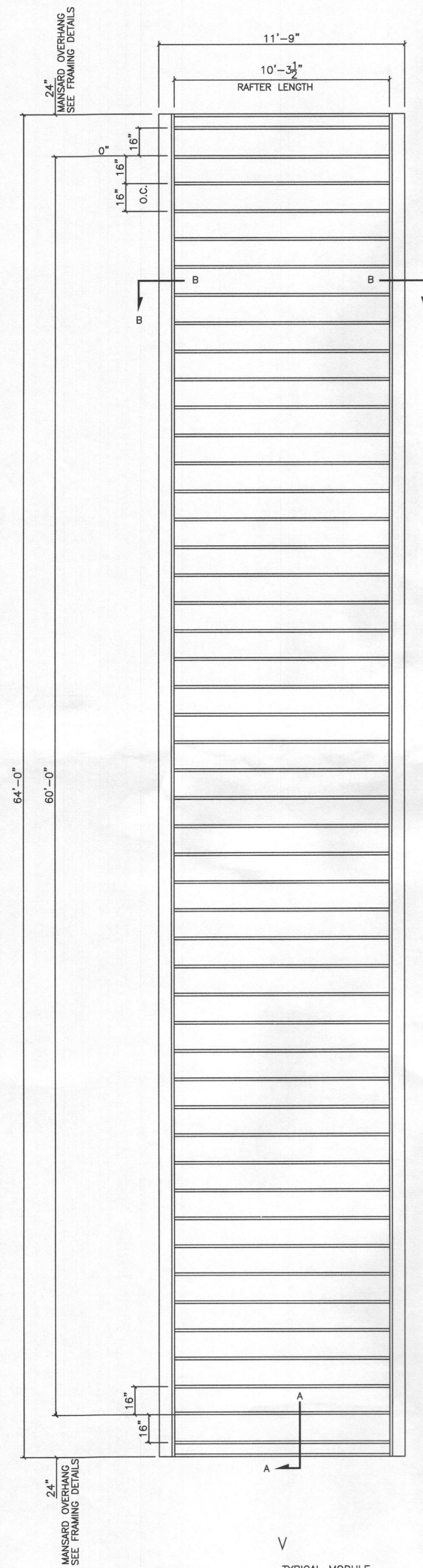
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CLEARWATER, FL 33756
PH: (727) 505-9941

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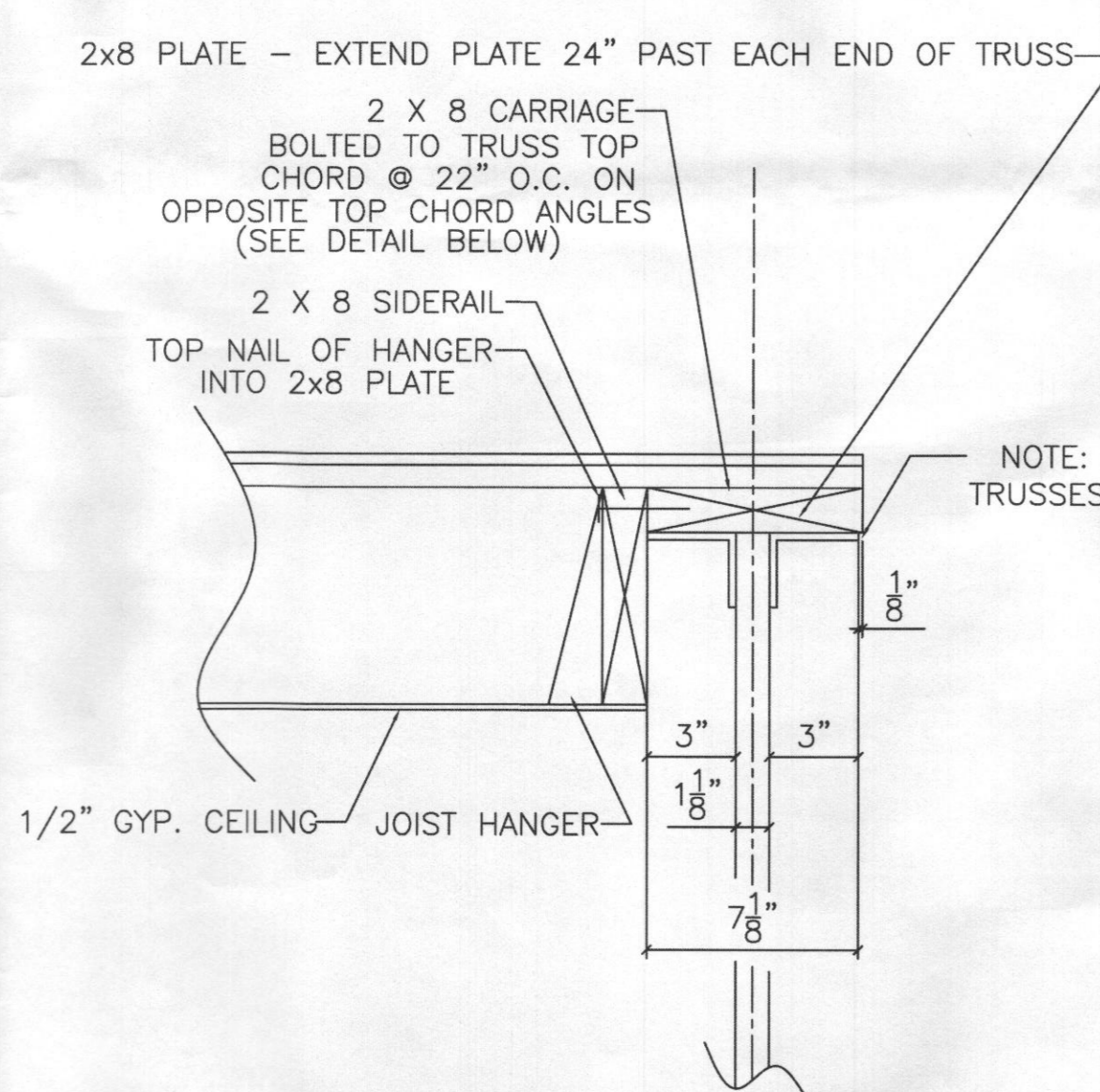


TOOTHED NAIL PLATE FASTENER
MINIMUM 1 1/2" x 3" (TYP.)

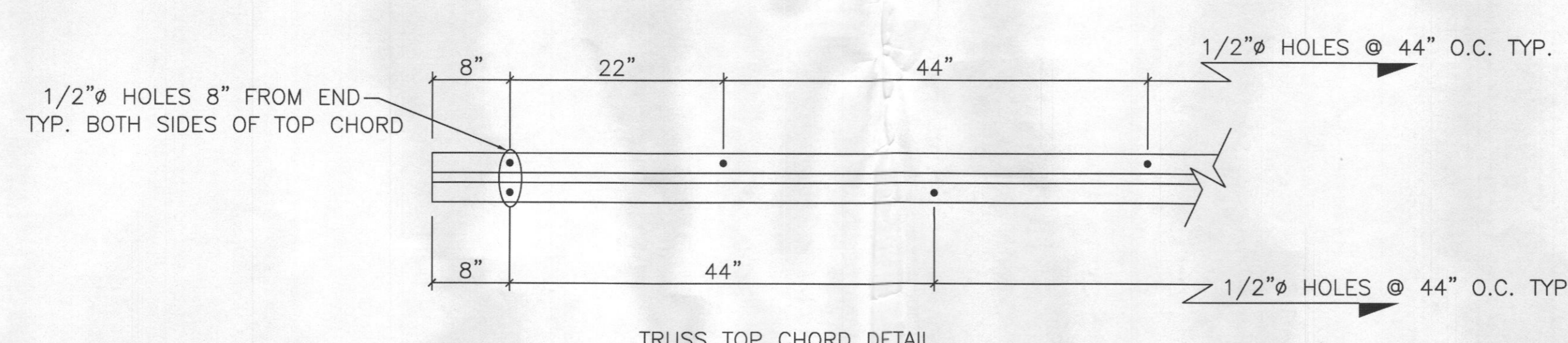
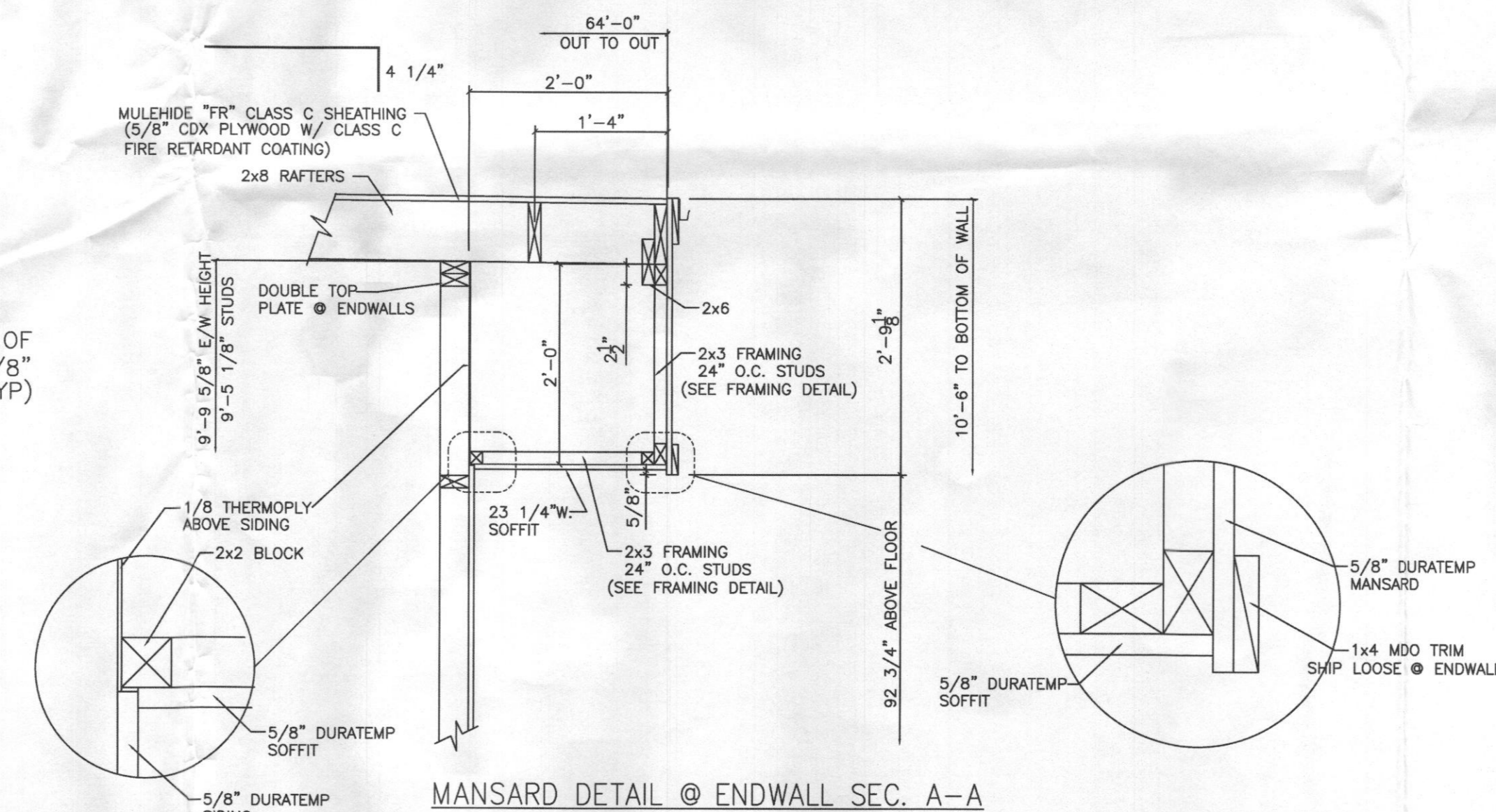
TOOTHED NAIL PLATE FASTENER
MINIMUM 1 1/2" x 3" (TYP.)

TOOTHED NAIL PLATE FASTENER
MINIMUM 1 1/2" x 3" (TYP.)

TOOTHED NAIL PLATE FASTENER
MINIMUM 1 1/2" x 3" (TYP.)



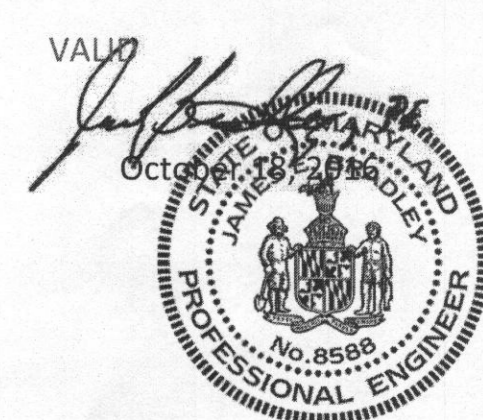
TRUSS TOP PLATE DETAIL SECTION B-B



ROOF FRAMING / DETAILS
SCALE: 3/16"=1'-0"

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107 09 2016
LICENSES & PERMITS
DIVISION



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 NO. 8588, EXP. DATE: 6/6/2017

J.E.B.
JAMES E. BRADLEY, P.E.
CONSULTING ENGINEER
1765 CARNEGIE AVENUE
CLEARWATER, FL 33756
PH: (727) 505-9941

STATE(S): MD

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SR: J.L.B.

DWG BY: J.L.B.

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

REV.#: 0

DWG: JLB-2016-0221

FILE#:

DATE:

FOUNDATION NOTES:

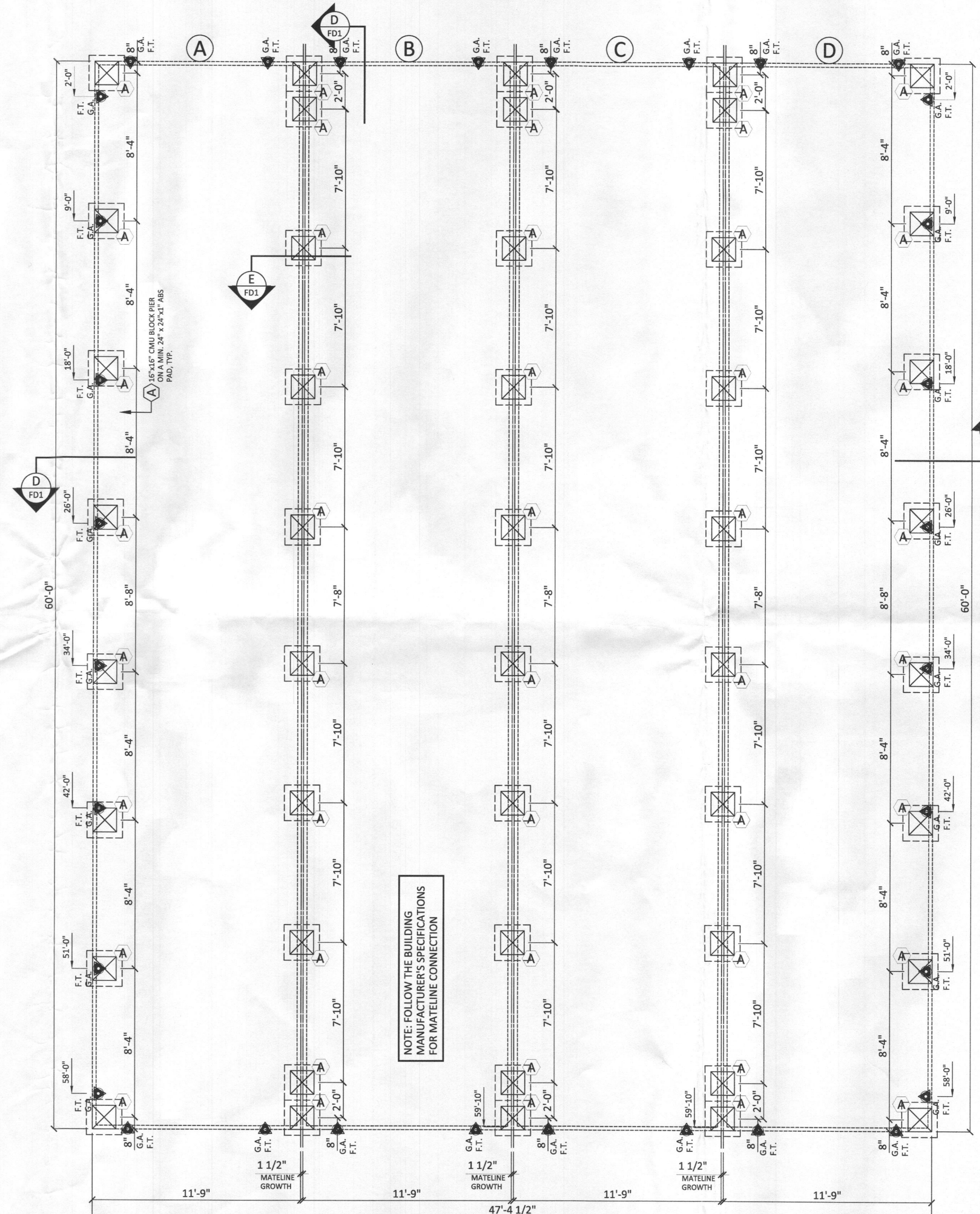
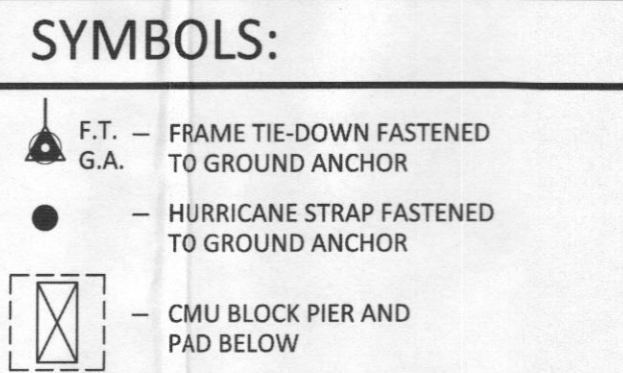
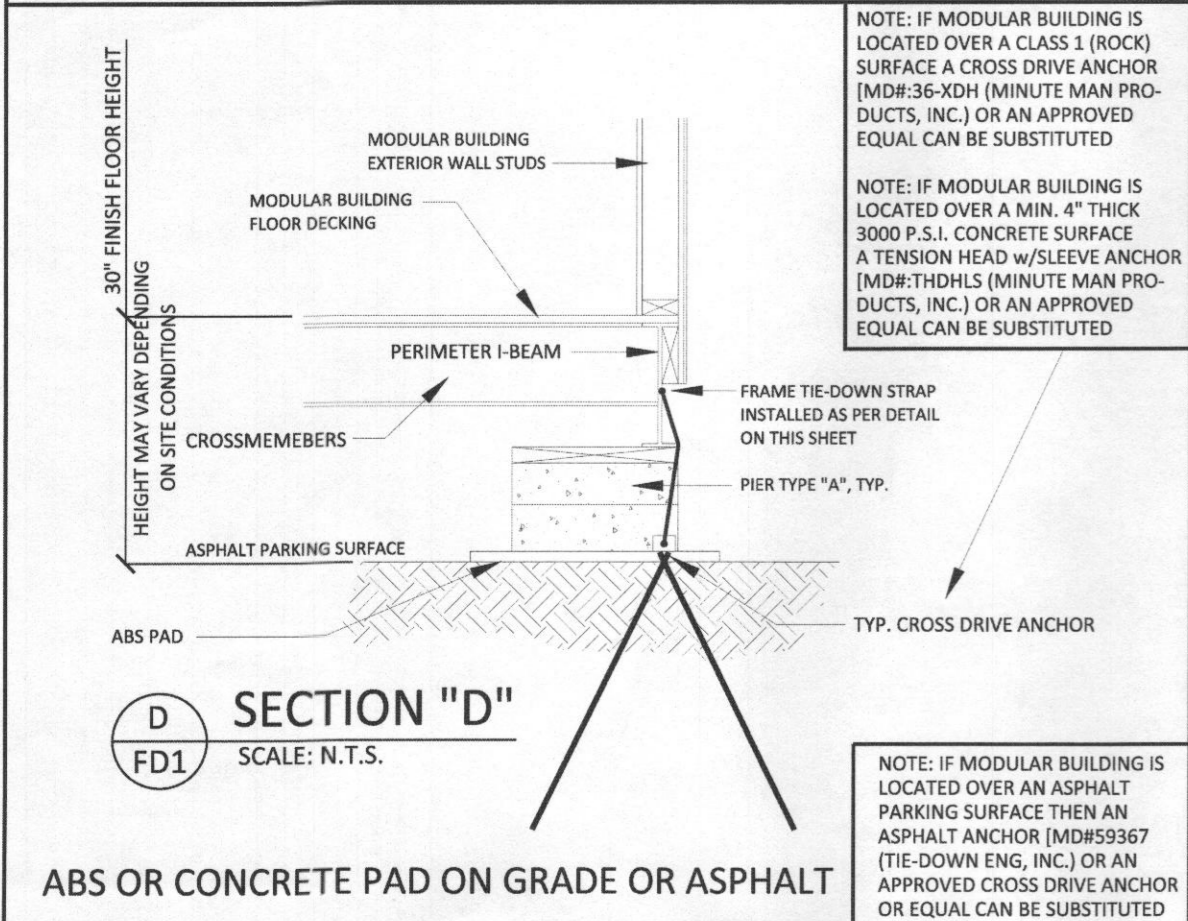
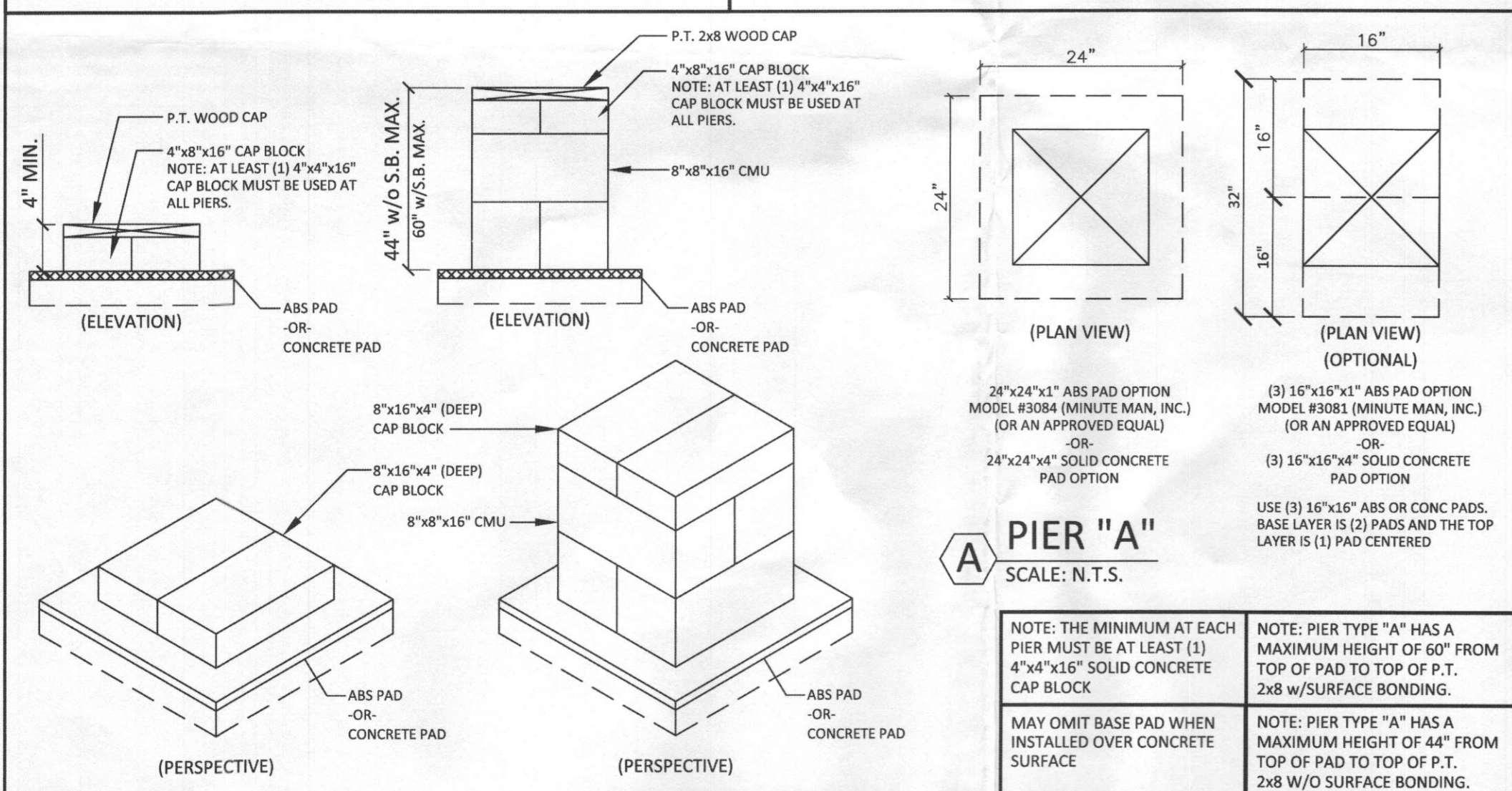
- NOTE: ALL REQUIRED BUILDING AND/OR CONSTRUCTION PERMITS MUST BE APPLIED FOR AND OBTAINED FROM THE LOCAL AUTHORITIES HAVING JURISDICTION PRIOR TO ANY WORK BEING DONE ON THE ABOVE SHOWN FOUNDATION DESIGN.
1. ALL FOUNDATION CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
 2. THE ABOVE FOUNDATION IS DESIGNED AS PER SECTION 14.5.1.11 OF THE 2009 IBC USING ALTERNATIVE DESIGN OR METHODS OF CONSTRUCTION. THIS DESIGN MEETS OR EXCEEDS THE WIND LOAD AND SOIL BEARING REQUIREMENTS OF THIS CODE. THE APPROVAL OF THIS FOUNDATION IS SUBJECT TO THE LOCAL AUTHORITY HAVING JURISDICTION.
 3. TIE-DOWN STRAPS TO BE 1/4" X .035 GALVANIZED STEEL FEDERAL SPECIFICATION Q35-781-H TYPE-1 FINISH-B GRADE-1. TIE-DOWN STRAPS AND CONNECTING HARDWARE TO HAVE A 4,725H MINIMUM ULTIMATE CAPACITY (3,150H X 1.5).
 4. ALL TIE-DOWN ANCHORS SHALL HAVE A 4,725H MINIMUM ULTIMATE CAPACITY (3,150H X 1.5) AND SHALL BE INSTALLED AS PER THEIR MANUFACTURER'S SPECIFICATIONS. THE TYPE OF GROUND ANCHOR, INCLUDING SHANK LENGTH, NUMBER AND DIAMETER OF HELICES, ETC. TO BE SPECIFIED BY THE GROUND ANCHOR MANUFACTURER FOR THE ACTUAL SOIL TYPE THAT IS ENCOUNTERED AT THE SITE.
 5. SEE ABOVE FOUNDATION LAYOUT FOR TIE-DOWN STRAP SPACING.
 6. ALL PIERS SHALL BE 8"x8"x16" MASONRY BLOCKS ON EITHER 16"x16" ABS PADS, OR 16"x16"x4" SOLID CONCRETE PAD, MIN. EXCEPT AS OTHERWISE NOTED ON FOUNDATION PLAN. SEE PIER SPACING CHART FOR ADDITIONAL SIZE OPTIONS.
 7. MINIMUM SOIL BEARING CAPACITY IS 2,000 PSF. TO BE VERIFIED BY BUILDING'S OWNER. SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2,000 PSF, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS ONLY.
 8. IT WILL BE THE BUILDING OWNER'S RESPONSIBILITY TO INSURE THAT ALL LOOSE DEBRIS IS REMOVED FROM UNDER THE BUILDING AND THAT THE BUILDING IS LEVELLED AND FIRMLY COMPACTED.
 9. WOOD SHIMS MAY BE INSTALLED WHEN NECESSARY, BETWEEN THE I-BEAM AND THE TOP OF THE PIER. SHIMS SHALL BE FREE OF KNOTS, CHECKS, SPLITS, AND SIMILAR IMPERFECTIONS. SHIMS SHALL BE OF P.T. LUMBER OR CEDAR AND BEARING AT ALL CONTACT POINTS.
 10. MASONRY PIERS INSTALLED IN A DRY STACK SUBJECT TO LOCAL JURISDICTION AND APPROVAL.
 11. OVERALL WIDTH DIMENSION IS NOMINAL AND IS BASED ON UNIT WIDTH X NUMBER OF UNITS. ACTUAL OVERALL WIDTH MAY INCREASE DUE TO SITE CONDITIONS, MATERIAL TOLERANCES. FAILURE TO REMOVE CLOSE-UP MATERIAL AND/OR OTHER FACTORS BEYOND THE CONTROL OF THE BUILDING MANUFACTURER.
 12. PIER A: FIELD CONDITIONS WITH DRY STACK PIERS GREATER THAN 26" SHALL REQUIRE THE PIER TO BE CHANGED TO A PIER TYPE "B" (SEE THIS SHEET FOR DETAILS). PIER B: FIELD CONDITIONS WITH DRY STACK PIERS GREATER THAN 46" SHALL REQUIRE THE PIERS TO HAVE SURFACE BONDING TO A MAXIMUM OF 62" HIGH. (ANY PIERS OVER 62" HIGH WILL REQUIRE ENGINEERING BEYOND THE DESIGN OF THIS FOUNDATION.)
 13. ALTHOUGH NOT SHOWN IN THIS DESIGN WHERE/WHEN REQUIRED BY LOCAL JURISDICTION ALL MASONRY PIERS MAY BE LAID IN TYPE "M" OR "S" MORTAR IN COMPLIANCE w/ASTM C887, OR SHALL HAVE SURFACE BONDING MORTAR IN COMPLIANCE w/ASTM C 846.
 14. ALL PIERS SHALL BE CAPPED WITH 4 INCHES OF SOLID MASONRY OR CONCRETE OR THE CAVITIES SHALL BE FILLED WITH CONCRETE OR GROUT. PIERS SHALL PROVIDE A TRUE AND EVEN BEARING SURFACE.
 15. THE FOUNDATION DIMENSIONS SHOWN ARE NOMINAL. AN INCREASE IN MODULE WIDTH SHOULD BE EXPECTED DUE TO MODULE EXPANSION, SETTING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PRIOR TO CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE AMOUNT OF INCREASED WIDTH TO BE ADDED TO THE NOMINAL DIMENSIONS SHOWN ABOVE.
 16. I-BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY 90° FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN. CENTERLINE OF EACH PIER MUST BE LOCATED DIRECTLY BELOW THE I-BEAM CENTERLINE.
 17. FOUNDATION REVIEW AND INSPECTION IS TO BE PERFORMED BY THE LOCAL OFFICIALS HAVING JURISDICTION.
 18. PROVIDE POSITIVE DRAINAGE UNDER UNIT.
 19. UNDERGROUND UTILITY LOCATIONS ARE THE RESPONSIBILITY OF OTHERS. ALL UNDERGROUND UTILITY LOCATIONS MUST BE VERIFIED PRIOR TO ANY EXCAVATION.

STRUCTURAL LOAD LIMITATIONS:

- FLOOR LIVE LOAD:
A. 100 PSF
- 2000 LB. (CONCENTRATED)
- ROOF LIVE LOAD:
A. 20 PSF
- ROOF SNOW LOAD:
A. Pg = 35 PSF
B. Pf = 26.95 PSF
C. Ce = 1.0
D. Is = 1.0
E. Ct = 1.1
- WIND LOAD:
1. 130 MPH (VULT) WIND SPEED (3-SEC GUST)
101 MPH (VASD) WIND SPEED (NOMINAL)
2. Iw = 1.0 WIND IMPORTANCE FACTOR
BUILDING RISK CATEGORY: II (ASCE 7-10)
3. C WIND EXPOSURE CATEGORY
4. ENCLOSURE CLASSIFICATION: ENCLOSED
GCd = 0.38 INTERNAL PRESSURE COEFFICIENT.
5. COMPONENT & CLADDING LOAD:
(ROOFS)
Pr = -11.70 PSF ZONE 1
Pr = -43.90 PSF ZONE 2
Pr = -63.30 PSF ZONE 3
(WALLS / WINDOWS / DOORS)
Pw = -19.50 PSF ZONE 4
Pw = -37.20 PSF ZONE 5
6. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
- SEISMIC LOAD:
A. Ia = 1.0 SEISMIC IMPORTANCE FACTOR
D SITE CLASS
C. A13 SEISMIC FORCE RESISTING SYSTEM.
D. C SEISMIC DESIGN CATEGORY.
E. EQUIVALENT ANALYSIS PROCEDURE.
F. Ss = 0.537 MAPPED SPECTRAL RESPONSE COEFFICIENT
G. Si = 2.285 MAPPED SPECTRAL RESPONSE COEFFICIENT
H. Sds = 2.40 SPECTRAL RESPONSE COEFFICIENT
I. Sd1 = 1.19 SPECTRAL RESPONSE COEFFICIENT
J. Vp = 84.04 RESPONSE MODIFICATION COEFFICIENT
K. R = 6.5
L. Cd = 0.08 SEISMIC RESPONSE COEFFICIENT

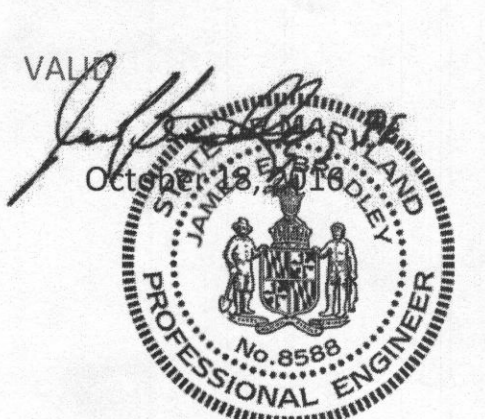
STATE CODES:

MARYLAND
BUILDING: 2012 IBC w/MD AMENDS
2012 NFPA 101 w/MD AMENDS
PLUMBING: 2012 IPC w/MD AMENDS
MECHANICAL: 2012 IMC
ELECTRICAL: 2011 NEC
ENERGY: ASHRAE 90.1-10
ACCESSIBILITY: ADAAG/2012 MD ACCESSIBILITY CODE



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10/09/2015
LICENSES & PERMITS
DIVISION



OCCUPANCY: ASSEMBLY (A-3)
FLOOR DESIGN LIVE LOAD: 100 PSF
ROOF LIVE LOAD: 20 PSF
GROUND SNOW LOAD: 35 PSF
CONSTRUCTION: TYPE V-B

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 NO. 8588, EXP. DATE: 6/6/2017

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SERIAL#: J.L.B.
DWG BY:
SR:
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