STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

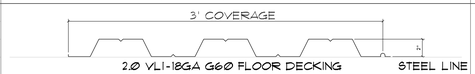
Digitally signed by Charles A Witt
Date: 2024.12.09 17:04:42 -06'00'

ABBREVIATIONS

C-PNL	C-PANEL
R-PNL	R-PANEL
U-PNL	U-PANEL
RRU	REVERSED ROLLED U-PANEL
RUL	REVERSED ROLLED U-PANEL (LINER)
PBC	PURLIN BEARING C-PANEL
PBU	PURLIN BEARING U-PANEL
PBR	PURLIN BEARING R-PANEL
7.2-PNL	7.2-PANEL
S.SEAM	STANDING SEAM
A.D.A.	AMERICANS WITH DISABILITIES ACT
A.F.F.	AFTER FINISHED FLOOR
B.L.	BRICK LEDGE
BOM	BILL OF MATERIALS
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BT	BASE TYPE
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT'S	CONTINUOUS
DBL	DOUBLE
EL	ELEVATION
E.HT.	EAVE HEIGHT
GA	GAUGE
G.C.	GENERAL CONTRACTOR
F.F. / FFLOOR	FINISHED FLOOR
FMG	FRAMING
F.W.	FIRE WALL
INSL	INSULATION
MFGR	MANUFACTURER
N.T.S.	NOT TO SCALE
O.C. / O/C	ON CENTER
PNL	PANEL
QTY	QUANTITY
REF	REFERENCE
REQ'D	REQUIRED
R.T.S	RAKE TRIM STANDARD
S.D. / S.D.S.	SELF DRILLING SCREW
S.L.	SHEET LEDGE
TOS	TOP OF STEEL
TS	TUBE STEEL
TYP	TYPICAL
U.N.	UNLESS NOTED
W.A.	WEDGE ANCHOR
℄	CENTER LINE
PL	PLATE
L-	ANGLE

PAGE INDEX

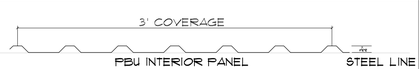
TYPICAL PANELS



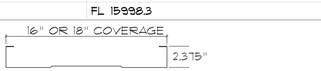
FLOOR DECKING:	HORIZONTALLY MOUNTED W/ (4) S.D. W/O WASHERS @ EVERY BOTTOM FLUTE @ EVERY MEMBER
LOCATION:	ALL ELEVATED SLABS
SUPPLIER PRODUCT *	

ROOF DECKING:	HORIZONTALLY MOUNTED W/ (4) TEK W/O WASHERS @ EVERY BOTTOM FLUTE @ EVERY MEMBER
LOCATION:	ROOF DECK
SUPPLIER PRODUCT *	

WALL SHEETING	VERTICALLY MOUNTED W/ S.D. W/ WASHERS
LOCATION:	EXTERIOR SHEETING
SUPPLIER PRODUCT *	FL 15998.3



WALL SHEETING	HORIZONTALLY MOUNTED W/ S.D. W/ WASHERS
LOCATION:	INTERIOR SHEETING
SUPPLIER PRODUCT *	FL 15998.3



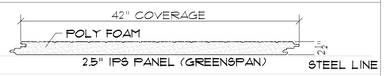
ROOF SHEETING	HORIZONTALLY MOUNTED W/ FIXED ROOF CLIPS W/O WASHERS
LOCATION:	MAIN ROOF
SUPPLIER PRODUCT *	FL 16606.1

TYPICAL PANELS

WALL SHEETING	HORIZONTALLY OR VERTICALLY MOUNTED W/ TEK SCREWS W/ WASHERS
LOCATION:	EXTERIOR SHEETING
SUPPLIER PRODUCT *	FL 15998.1

WALL SHEETING	HORIZONTALLY OR VERTICALLY MOUNTED W/ TEK SCREWS W/ WASHERS
LOCATION:	EXTERIOR ROOFING
SUPPLIER PRODUCT *	FL 15998.1

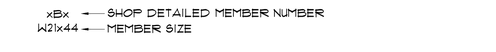
WALL SHEETING	VERTICALLY MOUNTED W/ S.D. W/ WASHERS
LOCATION:	EXTERIOR SHEETING
SUPPLIER PRODUCT *	FL 10680.1



WALL SHEETING	VERTICALLY MOUNTED W/ TEK SCREWS W/O WASHERS
LOCATION:	EXTERIOR SHEETING
SUPPLIER PRODUCT *	FL 16327.1-R3

WALL SHEETING	VERTICALLY MOUNTED W/ TEK SCREWS W/O WASHERS
LOCATION:	EXTERIOR SHEETING
SUPPLIER PRODUCT *	FL 16327.1-R3

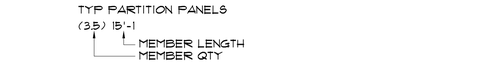
TYPICAL NOMENCLATURE



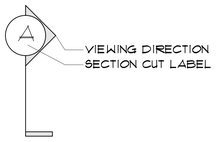
TYP CHANNEL MEMBERS

TYP FRAMING SUPPORT MEMBERS

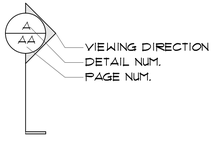
TYP PARTITION PANELS



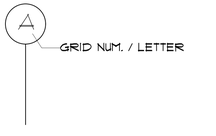
TYPICAL SECTION CUT



TYPICAL DETAIL FLAG



TYPICAL GRID BUBBLE



	C6.18	C4.12	C4.14	C4.16	C6.14	C6.16	BC4.14	BC4.16	BC6.14	BC6.16	TC4.12	TC4.14	TC4.16	TC6.14	TC6.16	H6.12	H6.14	H6.16	H8.12	H8.14	H8.16	HT2.12	HT2.14	HT2.16	L1	L2	RC4.16	Z4.16	Z6.16	Z8.16	BB12.12	BB12.14	SH.18	SP.16	UP.26	UP.29	2FD36	ES4.16	A316	A2416	G4.16	G6.16	SG1.16	SG2.18	GC4	GC6	CL1	DOUBLE CEE	TRIPLE CEE	QUAD CEE
SHAPE	C	C	C	C	C	C	U	U	U	U	U	U	U	U	U	C	C	C	C	C	C	C	C	C	L	L	U	Z	Z	Z			C	C	PBU	PBU	2VL	U	L	L	C	C	L	L	L	L	◇	◈	◎
WEB	15/8"	4"	4"	4"	6"	6"	4"	4"	6"	6"	4"	4"	4"	6"	6"	6"	6"	6"	8"	8"	8"	12"	12"	12"	4"	4 1/2"	4"	4"	6"	8"	12"	12"	VARIES	VARIES	36"	36"	36"	4"	3	2	4"	6"	6"	6"	4"	6"	6"			
FLNG.	15/8"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2	2"	2"	2"	2"	3"	3"	3"	3"	3"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	4"	4 1/2"	3"	2 1/2	2 1/2	2 1/2	N/A	N/A	3 3/4"	4 3/4"	N/A	N/A	N/A	2 1/2"	3	4	2 1/2"	2 1/2"	1"	1"	N/A	N/A	3"			
GA.	18	12	14	16	14	16	14	16	14	16	12	14	16	14	16	12	14	16	12	14	16	12	14	16	3/8	12	16	16	16	16	12	14	18	16	26	29	18	16	16	16	16	16	16	16	12	12				
USAGE	CHNL. SECTION	STUDS	STUDS	STUDS	STUDS	STUDS	BOT. CHNL.	BOT. CHNL.	BOT. CHNL.	BOT. CHNL.	TOP CHNL.	TOP CHNL.	TOP CHNL.	TOP CHNL.	TOP CHNL.	HDR.	HDR.	HDR.	HDR.	HDR.	HDR.	HDR.	HDR.	HDR.	LEDGER	POUR STOP	RECEIV. CHNL.	PURLIN	PURLIN	PURLIN	BOX BEAM	BOX BEAM	STRC. HDR.	STRC. PIER	PART. PANEL	PART. PANEL	FLOOR DEK.	EAVE STRUT	RAKE SUPPT.	RAKE SHTG.	GIRT	GIRT	SUB GT.	SUB GT.	GIRT CLIP	GIRT CLIP	MASNRY CLIP			

ENGINEERING SOLUTIONS

SEALS

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY CHARLES A. WITT, PE FLORIDA REG# 83199 ON THE DATE AND TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORITY ON ANY ELECTRONIC COPY.

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JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

COVER SHEET

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	RBS-CS

SPECIFICATIONS:

DESIGN CRITERIA: ALL STRUCTURAL WORK SHALL CONFORM TO THE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND MEET THE REQUIREMENTS OF THE 2021 INTERNATIONAL BUILDING CODE (IBC), 2023 FLORIDA BUILDING CODE, 8TH ED. AND THE APPLICABLE CODE AMENDMENTS.

DESIGN LOADS:

ROOF DEAD LOAD	5 PSF	
ROOF LIVE LOAD	20 PSF	
FLOOR DEAD LOAD	45 PSF	4.5" TOTAL DEPTH DECK SLAB
FLOOR LIVE LOADS	125 PSF	STORAGE
	100 PSF	CORRIDORS
	100 PSF	STAIRS AND EXITS
GROUND SNOW LOAD. Pg	0 PSF	
WIND VELOCITY	VULT = 152 MPH ULTIMATE VASD = 117.73 MPH	

OCCUPANCY CATEGORY II
IMPORTANCE FACTOR 1.00
EXPOSURE C
BUILDING IS DESIGNED AS FULLY ENCLOSED

IMPORTANCE FACTOR 1.00	Ss = 0.054, S1 = 0.031
OCCUPANCY CATEGORY II	Sds = 0.058, Sd1 = 0.05
SEISMIC DESIGN CATEGORY B	
SITE CLASS D	
(Fa 1.6 Fv 2.4)	DESIGN BASE SHEAR (KIPS) = 15.25 (3-STORY)
RESPONSE COEDD = 0.023	RESPONSE MOD FACTOR, R = 2.5

ANALYSIS: EQUIVALENT LATERAL FORCE PROCEDURE

ALLOWABLE BEARING PRESSURE = 2000 PSF

STRUCTURAL NOTES:

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERT ANCHORS, HOLES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFTEY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON, NOR ISSUE DIRECTION, AS TO SAFTEY PRECAUTIONS AND PROGRAMS.

3. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY AND STABILITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER THE FINAL CONFIGURATION ONLY.

4. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENTS. IMMEDIATELY NOTIFY THE ENGINEER AND/OR ARCHITECT OF ANY DISCREPANCIES OR CONFLICT WHERE THE INTENT OF THE CONSTRUCTION DOCUMENTS ARE IN DOUBT OR WHERE THERE APPEARS TO BE A DEFECTOR OMISSION IN THE CONSTRUCTION DOCUMENTS OR DISCREPANCY BETWEEN THE CONSTRUCTION DOCUMENTS AND THE FIELD CONDITION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING TO OBTAIN ENGINEER'S CLARIFICATION BEFORE COMMENCING THE WORK.

5. CONTRACTOR INTIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER AND/OR ARCHITECT FOR APPROVAL PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENTS. ALL CHANGES REQUIRE THE WRITTEN APPROVAL OF THE ENGINEER AND/OR ARCHITECT. UNATHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

6. THE CONTRACTOR SHALL SHORE OR CRIB THE STRUCTURE FOR ALL CONSTRUCTION LOADS WHICH EXCEED THE NOTED DESIGN LOADS. DO NOT APPLY ANY ERECTION OR CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.

7. ALL STRUCTURAL WORK THAT IS COMPOSED OF COMPONENTS DESIGNED BY OTHERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURES RECOMMENDATIONS AND INSTRUCTIONS, AND SUPERVISED BY THE MANUFACTURES REPRESENTATIVE DURING THE MANUFACTURING, DELIVERY, HANDLING, STORAGE, AND ERECTION AS REQUIRED.

8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.

9. ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THOSE STANDARDS, UNLESS NOTED OTHERWISE.

10. COORDINATE ALL CONSTRUCTION ACCESS AND OPERATIONS FOR ALL WORK THAT OCCURS ADJACENT TO AN EXISTING STRUCTURE AS NECESSARY TO AVOID DISRUPTION TO SAID STRUCTURE.

SHOP DRAWINGS / DEFERRED STRUCTURAL SUBMITTALS

1. THE CONTRACTOR SHALL SUBMIT A MINIMUM OF THREE COPIES OF THE FOLLOWING SHOP DRAWINGS (MAX SCALE 1/8" = 1') TO THE ARCHITECT / ENGINEER PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENTS (ONE COPY TO BE RETAINED BY THE ARCHITECT AND ENGINEER) AS A MINIMUM, ALL SHOP DRAWINGS SUBMITTALS SHOULD INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS OF INSTALLATION, AND CONNECTIONS, AND MATERIAL SPECIFICATIONS, UNLESS NOTED OTHERWISE.

2. SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. BEFORE BEING SUBMITTED FOR REVIEW, ALL SHOP DRAWINGS SHALL BE CHECKED BY THE FABRICATOR AND BEAR THE CHECKER'S INITIALS, AND SHALL BE REVIEWED BY THE CONTRACTOR FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND HAVE APPROVAL STAMP PLACED ON EACH SHOP DRAWING INDICATING SUCH. ANY SHOP DRAWINGS NOT CHECKED OR REVIEWED BY THE FABRICATOR AND CONTRACTOR PRIOR TO BEING SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW MAY BE REJECTED AND RETURNED WITHOUT REVIEW.

3. IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS.

4. DESIGN AND DETAILING SHALL BE PERFORMED USING RATIONAL ENGINEERING DESIGN PRACTICES AND BE BASED ON STANDARD PRACTICES IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS AND THE BUILDING CODE AND ALL APPLICABLE BUILDING CODE AMENDMENTS.

5. THE ENGINEERS REVIEW IS TO VERIFY CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE PERTINENT CONTRACT DOCUMENTS. THE ENGINEERS REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW, CHECK, AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC.

6. AS A MINIMUM, SUBMIT THE FOLLOWING SHOP DRAWINGS FOR REVIEW.

   - REINFORCING STEEL IN REINFORCED CONCRETE AND MASONRY CONSTRUCTION- INCLUDE DETAILS OF ALL BENT BARS VERTICAL REINFORCING AND HORIZONTAL BOND BEAM REINFORCING. INCLUDE PLANS AND ELEVATIONS AS REQUIRED TO CLEARLY SHOW ALL REINFORCING.
   - ALL CONCRETE CONSTRUCTION-SUBMIT A CONCRETE MIX DESIGN FOR EACH CONCRETE STRENGTH. AS A MINIMUM, EACH DESIGN SHALL INCLUDE PROPORTIONS OF CEMENT, FINE AND COURSE AGGREGATES, AND WATER GRADATION OF COMBINED AGGREGATES, AND CONCRETE COMPRESSIVE TEST RESULTS. CERTIFICATION SHALL BE FROM AN ACCEPTABLE TESTING LABORATORY.
   - TILT-UP CONCRETE-SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER. CALCULATIONS SHALL INCLUDE AS A MINIMUM, ALL LOADS, STRESSES, AND DEFLECTIONS ASSOCIATED WITH EACH MEMBER.
   - STRUCTURAL STEEL-SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED (CALCULATIONS ONLY) BY A QUALIFIED PROFESSIONAL ENGINEER. CALCULATIONS SHALL INCLUDE AS A MINIMUM ALL LOADS, STRESSES, AND DEFLECTIONS ASSOCIATED WITH EACH MEMBER AND/OR CONNECTION.
   - COLD FORMED STEEL PURLINS AND GIRTS-SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER.
   - COLD FORMED STEEL STUDS AND POSTS-SUBMIT ERECTION DRAWINGS. AS A MINIMUM, ERECTION DRAWINGS SHALL SHOW LAYOUT PIECE MARKS AND ASSOCIATED MEMBER SIZES INCLUDES STUDS/POSTS, TOP AND BOTTOM CHANNEL, AND COMPONENTS, AND ACCESSORIES.
   - STEEL DECKING/PANELING-AS A MINIMUM, SUBMIT MANUFACTURES CATALOG WITH SHOP DRAWINGS.
   - STEEL STAIRS AND RAILING SYSTEMS-SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER. AS A MINIMUM, FURNISH A LETTER SIGNED AND SEALED BY THE STAIRS, PLATFORMS, AND/OR RAILING SYSTEMS ENGINEER OF RECORD STATING THE THE STAIRS, PLATFORMS, AND/OR RAILING SYSTEMS ARE DESIGNED TO CONFORM TO THE DESIGN CRITERIA SET FORTH BY THE PROJECT ENGINEER OF RECORD.

7. OTHER SUBMITTALS MAY BE REQUIRED PER THE SPECIFICATIONS OR THE SEPERATED NOTES CONTAINED HEREIN.

8. TEMPORARY OR PERMANENT SYSTEMS OR FRAMING MEMBERS THAT ARE NOT SPECIFICALLY DESIGNED, DETAILED OR SPECIFIED IN THE CONTRACT DOCUMENTS BUT ARE REQUIRED TO COMPLETE THE FINISHED STRUCTURE, SHALL BE DESIGNED AND DETAILED BY OR UNDER THE DIRECTION OF A QUALIFIED PROFESSIONAL ENGINEER. ALL REQUESTED SUBMITTALS FOR THESE SYSTEMS OR FRAMING MEMBERS SHALL BE SIGNED AND SEALED BY SAID QUALIFIED PROFESSIONAL ENGINEER.

9. ALL SIGNED AND SEALED SHOP DRAWINGS AND/OR CALCULATIONS THAT ARE REQUIRED TO BE SUBMITTED FOR REVIEW SHALL BE DONE BY OR UNDER THE DIRECTION OF A QUALIFIED PROFESSIONAL ENGINEER.

FOUNDATION DESIGN

1. THE FOUNDATION DESIGN WAS BASED ON THE FINDINGS AND RECOMMENDATIONS MADE BY THE GEOTECHNICAL ENGINEER IN THEIR GEOTECHNICAL REPORT. SUBGRADE PREPARATION SHALL CONFORM STRICTLY WITH THE RECOMMENDATION GIVEN IN THIS REPORT AND AS PER THE GEOTECHNICAL ENGINEERS FIELD INSTRUCTIONS.

2. FOOTINGS SHALL BEAR AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON THE DRAWINGS ARE MINIMUM AND FOR GUIDANCE ONLY. THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN FIELD.

3. ALL FOOTING SHALL BEAR ON UNDISTURBED, FIRM NATURAL SOIL OR COMPACTED FILL CAPABLE OF SUPPORTING THE DESIGN BEARING PRESSURES.

4. ALL SOIL SURROUNDING AND BENEATH ALL FOOTINGS, SLABS, ETC. SHALL BE PROTECTED AGAINST FROST OR FREEZING DURING CONSTRUCTION.

5. THE CONTRACTOR SHOULD EMPLOY A PROFESSIONAL GEOTECHNICAL ENGINEER TO INSPECT THE FOUNDATIONS AND BEARING LEVELS AND VERIFY THAT THE MATERIAL ON WHICH THE FOUNDATION BEARS HAS AT LEAST THE ABOVE NOTED CAPACITY AND GIVE RECOMMENDATIONS FOR SUBGRADE PREPARATIONS. STRICTLY FOLLOW GEOTECHNICAL ENGINEERS RECOMMENDATIONS FOR SUB BASE AND FOOTING BEARING MATERIAL AND PREPERATION AS REQUIRED.

6. IMMEDIATELY NOTIFY THE ENGINEER AND/OR ARCHITECT IF UNSUITABLE SOIL OR SOIL CONDITIONS AT VARIANCE WITH THE GEOTECHNICAL REPORT IS DISCOVERED AT THE FOOTING ELEVATIONS SPECIFIED.

7. NO BACKFILL SHALL BE PLACED AGAINST WALLS UNTIL WALLS AND SLABS (OR HORIZONTAL BEAMS AND STRUTS) SUPPORTED THEREON HAVE ATTAINED DESIGN STRENGTH OR PRIOR TO THE COMPLETE INSTALLATION OF THE LATERAL LOAD RESISTING SYSTEM.

8. BACKFILL BEHIND ALL RETAINING AND/OR BASEMENT WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE SUBSURFACE DRAINAGE AS REQUIRED. ALL BACKFILL MATERIAL SHALL CONFORM STRICTLY WITH THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT MENTIONED ABOVE OR PER A PROFESSIONAL GEOTECHNICAL ENGINEERS FIELD INSTRUCTIONS.

9. PROVIDE VERTICAL CONTROL JOINTS IN RETAINING WALLS AS INDICATED. PROVIDE ADDITIONAL JOINTS AS REQUIRED SO THE SPACING BETWEEN JOINTS DOES NOT EXCEED A SPACING 3X WALL HEIGHT (25 FEET MAXIMUM). PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINT UNLESS NOTED OTHERWISE.

10. THE EXISTENCE OF UNDERGROUND STRUCTURES AND/OR UTILITIES IS NOT KNOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH THE OWNER OR NECESSARY AUTHORITIES THE LOCATIONS OF ALL EXISTING UNDERGROUND STRUCTURES AND/OR UTILITIES.

11. WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SEWERS, DRAINS, CONDUITS, PIPES, ETC. THE BOTTOM OF THE FOOTING SHALL BE SET AT OR BELOW THE INVERT ELEVATION OF THE ADJACENT ELEMENT.

CAST IN PLACE CONCRETE

1. ALL REINFORCED CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND APPLICABLE AMENDMENTS AND THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) OF THE AMERICAN CONCRETE INSTITUTE.

2. ALL REINFORCED CONCRETE MIX DESIGNS SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND APPLICABLE AMENDMENTS AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) OF THE AMERICAN CONCRETE INSTITUTE.

3. ALL REINFORCING STEEL FABRICATION AND PLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND APPLICABLE AMENDMENTS AND THE MANUAL OF STANDARD PRACTICE (CRSI MSP-1) OF THE CONCRETE REINFORCING STEEL INSTITUTE AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301) AND DETAILS AND DETAILING OF CONCRETE REINFORCEMENT (ACI 315) OF THE AMERICAN CONCRETE INSTITUTE.

4. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (144PCF+) CONFORMING TO ASTM C94 WITH ALL CEMENT CONFORMING TO ASTM C150, TYPE I OR II, MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2" FOR FOOTING AND 3/4" FOR WALLS AND SLABS, CONFORMING TO ASTM C33.

5. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f') AT 28 DAYS, SLUMP AND MAXIMUM WATERCEMENT RATION REQUIREMENTS:
   - ALL CONCRETE, UNO: 4,000PSI 2"-4" SLUMP W/C RATIO = 0.58
   - CONCRETE FILL: 2,500PSI 2"-4" SLUMP W/C RATIO = 0.58
   - ELEVATED SLABS: 3,000PSI 2"-4" SLUMP W/C RATIO = 0.53

6. OBTAIN EACH TYPE OF CEMENT OF THE SAME BRAND FROM THE SAME MANUFACTURES PLANT, EACH AGGREGATE FROM ONE SOURCE, AND EACH ADMIXTURE FROM THE SAME MANUFACTURE.

7. ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE ENTRAINED AIR IN ACCORDANCE WITH SECTION 1904 OF THE IBC.

8. FOR AIR ENTRAINED CONCRETE-MAXIMUM W/C RATION = 0.44

9. ALL ADMIXTURES SHALL CONFORM TO ASTM C260, C494, C618, C989 AND C1017 (NOT ALL INCLUSIVE).

10. ALL CONCRETE REINFORCING WITH CONCRETE SURFACE IN CONTACT WITH SOIL SHALL BE GALVANIZED.

11. ALL GROUT SHALL BE NON METALLIC SHRINKAGE-RESISTANT GROUT PROVIDED BY A MANUFACTURER APPROVED IN WRITING BY THE STRUCTURAL ENGINEER AND INSTALLED AND MIXED PER THE MANUFACTURERS RECOMMENDATIONS AND INSTRUCTIONS. ALL GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) AT 28 DAYS EQUAL TO 5,000PSI.

12. REINFORCEMENT:

• DEFORMED BARS	ASTM A615, GRADE 60
• WELDED WIRE REINFORCEMENT	ASTM A1064
• EPOXY COATED REINFORCEMENT	ASTM A775
• GALVANIZED REINFORCEMENT	ASTM A767, CLASS II

13. REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM CLEAR CONCRETE COVER, UNLESS NOTED OTHERWISE.
   - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
   - CONCRETE SURFACES IN CONTACT WITH SOIL OR EXPOSED TO EARTH OR WEATHER (#6 BARS OR LARGER) = 2" (#5 BARS OR SMALLER) = 1 1/2"
   - COLUMN TIES OR SPIRALS AND BEAM STIRRUPS = 1 1/2"
   - CONCRETE SURFACES NOT IN CONTACT WITH SOIL OR EXPOSED TO WEATHER INCLUDING WALLS AND TOP AND BOTTOM OF SLABS = 1"
14. WELDING OF REINFORCING BARS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. IF WELDING OR REINFORCING IS NECESSARY, IT SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.4. REINFORCING STEEL FOR WELDED ASSEMBLIES SHALL CONFORM TO ASTM A706 SPECIFICATIONS.
15. SPLICED BARS SHALL HAVE A MINIMUM LAP OF CLASS B TENSION LAP SPLICE PER NOTE PER TYPICAL DETAILS UNLESS OTHERWISE NOTED. STAGGER SPLICE WHERE POSSIBLE.
16. GALVANIZED REINFORCING SHALL BE TREATED TO PROVEN REDUCTION OF BOND. OTHERWISE PROVIDE SPLICE LENGTHS EQUIVALENT TO EPOXY COATED REINFORCING.
17. ALL REINFORCING STEEL INDICATED AS BEING CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED WITH A CLASS B SPLICE OR 36 X BAR DIAMETER (WHICHEVER IS GREATER) UNLESS NOTED OTHERWISE.
18. REINFORCING BARS TO EXTEND 12 BAR DIAMETERS BUT NOT LESS THAN 12" BEYOND BAR ENDS, UNLESS NOTED OTHERWISE.
19. PROVIDE ADDITIONAL BARS IN FOOTINGS, GRADE BEAMS, WALLS AND SLABS AS SHOWN IN TYPICAL DETAILS.
20. ALL REINFORCING STEEL SHALL BE SET AND TIES IN PLACE PRIOR TO POURING OF CONCRETE. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FILED BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE ENGINEER IN WRITING.
21. PROVIDE CORROSION RESISTANT ACCESSORIES SUCH AS PLASTIC COATED (NOT PLASTIC TIPPED) OR STAINLESS STEEL CHAIRS IN ALL EXPOSED CONCRETE CONSTRUCTION. PRECAST CONCRETE CHAIRS OR SAND PLATE CHAIRS SHALL BE USED FOR THE SUPPORT OF REINFORCING ON GRADE. CONCRETE BLOCK OR CLAY MASONRY BRICK ARE NOT PERMITTED.
22. ALL WWR SHALL BE CHAIRED TO ITS PROPER HEIGHT AND MAINTAINED AT THE PROPER LEVEL THROUGHOUT THE CONCRETE PLACING OPERATION. LIFTING OF WWR WITH A HOOK DURING CONCRETE PLACEMENT SHALL NOT BE PERMITTED.
23. CONSTRUCTION JOINTS SHALL NOT BE PLACED AT LOCATIONS OTHER THAN THOSE SHOWN ON THE DRAWINGS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER AND ARCHITECT.
24. SEALANT AND WATER STOPS SHALL BE PROVIDED IN JOINTS WHERE SHOWN ON THE DRAWINGS OR IN ACCORDANCE WITH THE IBC.
25. ALL EXPOSED CORNERS OF CONCRETE WO HAVE 3/4" MINIMUM CHAMFER UNLESS OTHERWISE NOTED.
26. CONCRETE SHALL BE DISCHARGED AT THE SITE WITHIN 1-1/2 HOURS AFTER WATER HAS BEEN ADDED TO THE CEMENT AND AGGREGATE. ADDITION OF WATER TO THE MIX AT THE PROJECT SITE IS STRICTLY PROHIBITED. ALL WATER MUST BE ADDED AT THE BATCH PLANT ONLY.
27. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CONCRETE OPENINGS AND/OR PENETRATIONS REQUIRED FOR OTHER TRADES PRIOR TO PLACING CONCRETE.
28. CONDUITS OR PIPES EMBEDDED IN THE SLABS SHALL NOT HAVE AN OUTSIDE DIMENSION LARGER THAN 1/3 THE SLAB THICKNESS AND SHALL BE SPACED NO CLOSER THAN 3 DIAMETERS ON CENTER. ALUMINUM CONDUITS SHALL NOT BE EMBEDDED IN CONCRETE.
29. REFERENCE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR REGLETS, PIPE SLEEVES, CONDUITS OR OTHER ITEMS TO BE EMBEDDED OR PASSED THROUGH CONCRETE.
30. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND DIMENSIONS OF DOORS AND FOR ALL FLOOR SLOPES.

CONCRETE UNIT MASONRY

1. ALL MASONRY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND APPLICABLE AMENDMENTS AND THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530/ASCE 5) AS WELL AS THE "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6) OF THE AMERICAN CONCRETE INSTITUTE AND THE AMERICAN SOCIETY OF CIVIL ENGINEERS.
2. ALL MORTAR SHALL BE ASTM C270, TYPE M (BELOW GRADE) OR TYPE S (ABOVE GRADE AND BE MADE WITH PORTLAND CEMENT/LIME NON AIR ENTRAINED). THE MORTAR SHALL OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI AT 28 DAYS. THE USE OF PREMIXED MASONRY CEMENT MORTAR IS STRICTLY PROHIBITED.
3. ALL MASONRY GROUT SHALL BE ASTM C476, WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. CONCRETE SHALL NOT BE USED IN LIEU OF MASONRY GROUT.
4. CONCRETE MASONRY UNITS (NORMAL WEIGHT UNITS WITH A DRY UNIT WEIGHT OF NOT MORE THAN 135 PCF)
   - HOLLOW UNITS - ASTM C90, TYPE N-1
   - SOLID UNITS - ASTM C145, TYPE N-1
5. THE MINIMUM COMPRESSIVE STRENGTH OF MASONRY (fm) SHALL NOT BE LESS THAN 1,500 PSI AS DETERMINED BY THE UNIT STRENGTH METHOD OF ACI 530
6. REINFORCEMENT:
   - DEFORMED BARS ASTM A 615, GRADE 60
   - JOINT REINFORCEMENT ASTM A951
   - EPOXY COATED REINFORCEMENT ASTM A 775
   - GALVANIZED REINFORCEMENT ASTM A767, CLASS II
7. GALVANIZED REINFORCING SHALL BE TREATED TO PREVENT REDUCTION OF BOND. OTHERWISE PROVIDE SPLICE LENGTHS EQUIVALENT TO EPOXY COATED REINFORCING.
8. UNLESS OTHERWISE NOTED, CENTER ALL VERTICAL REINFORCING IN CMU CORE AND HOLD IN POSITION WITH CAGING DEVICES.
9. UNLESS OTHERWISE NOTED, ALL WALLS SHALL BE LAID IN RUNNING BOND. BOND CORNERS AND INTERSECTING OF ALL WALLS ALL UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HEAD, BED (FACE SHELL), WEBS, AND COLLAR JOINTS, UNLESS OTHERWISE NOTED.
10. ALL INTERSECTING WALLS SHALL BE TIED TOGETHER IN MASONRY BOND BEAMS UNO.
11. HORIZONTAL TRUSS-TYPE JOINT REINFORCEMENT SHALL BE PLACED IN ALL WALLS SPACED AT 16" O.C. COORDINATE BRICK TIE BACK REQUIREMENTS WITH THE ARCHITECTURAL DRAWINGS. UNO. STOP ALL HORIZONTAL JOINT REINFORCEMENT AT CONTROL JOINTS.
12. PROVIDE SOLIDLY GROUTED HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS INDICATED. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR THE BOND BEAM AT BEARING ELEVATIONS.
13. PROVIDE VERTICAL CONTROL JOINTS AS INDICATED. PROVIDE ADDITIONAL JOINTS AS REQUIRED SO THE SPACING BETWEEN JOINTS DOES NOT EXCEED A SPACING OF 1.5X WALL HEIGHT (25 FEET MAXIMUM). WHERE BEAMS OR LINTELS BEAR AT CMU CONTROL JOINTS, OFFSET AND LAP VERTICAL REINFORCING.
14. PROVIDE AN ADDITIONAL VERTICAL REINFORCING BAR (SAME SIZE AS ADJACENT WALL) FULL HEIGHT OF WALL AT WALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARINGS, OPENING EDGES, AND EACH SIDE OF CONTROL JOINTS UNO.
15. VERTICAL REINFORCING DSHALL EXTEND TO 2" BELOW THE TOP OF THE CMU WALL OR PARAPET.

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Date: 2024.12.09 17:05:14 -06'00'

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JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

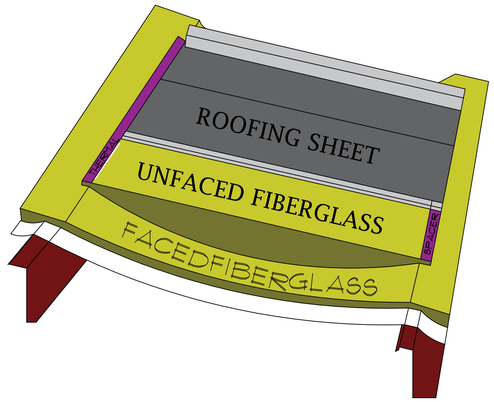
STRUCTURAL SPECIFICATIONS

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-0.1

SAG AND BAG

INSULATION SYSTEM



THERM • ALL

Sag and Bag Instructions

"Sag and Bag" is a double-layer insulation system that is used to comply with the newer energy codes and is designated in *ASHRAE* Table A2.3 as "Double Layer".

As illustrated in the previous pages, the Sag and Bag System consists of one layer of faced fiberglass insulation draped across, and allowed to sag between, the purlins in a metal building roof, followed above by a second layer of unfaced fiberglass insulation that is field cut in to pieces that fit between the purlins so as to avoid having two layers of insulation between the purlins and the roof panels, which situation would cause problems with the roof.

The roof insulation roll lengths for the first, faced, layer of fiberglass are derived by starting with the length of the slope, in feet, taking roof pitch in to consideration, and adding 6" for each purlin space, plus another two feet for "pull", one foot at each end of the roof roll. **Remember that you also need to take in to consideration that the insulation rolls on the first side of the roof you will install need to be 2' to 3' longer than the rolls for the second side of the roof because when you do the first side of a roof the insulation needs to reach across to the first, topmost, purlin on the other side of the roof.** The width of the first layer (faced) insulation rolls is up to the discretion of the builder.

Take note that both *ASHRAE* and *NAIMA* tables dictate that the bottom layer of the Sag and Bag System will be the thinner of the two layers, when there is a difference.

The unfaced fiberglass for the second layer can be 4', 5' or 6' wide, depending on your erector's preference, and must be field cut to fit between the purlins.

When installing the first layer of fiberglass (faced) across the purlins, the rolls should be rolled out as normally done, with the exception that they should not be pulled tight from end to end. Rather, the roll should be installed loosely so that is sags down between the purlins, leaving space for the unfaced second layer. Care must be taken to create as equal as possible the sag between all the purlin spaces. This can be done by having a number of roofing crew members lift and shake out the insulation after it is unrolled. **Pulling the bottom layer of insulation tight defeats the purpose of Sag and Bag, by reducing the space in to which the insulation can expand to achieve its maximum effectiveness.** Subsequent rolls of insulation should be installed such that they sag to the same depth as prior rolls to better seal the seams between adjacent rolls and to attain a relatively uniform appearance from the bottom side.

Although many contractors are now using one 6" tab to create the seams between adjacent rolls of insulation, *Therm-All* recommends against that practice when installing using the Sag and Bag system. Since adjacent rolls need to conform to the rolls next to them, and because this is an imprecise practice, using one 6" tab would not seal the adjacent rolls sufficiently to prevent moisture migration through the seams. Therefore, Therm-All highly recommends that you use two 3" tabs on each roll of insulation and fold and staple the seams as recommended by the *National Insulation Association* on their website insulation.org in the section entitled *Condensation Fact Sheet for Metal Buildings*.

Since the second layer of insulation, which is unfaced, cannot go over the top of the purlins (which already have one layer of insulation over them because of the faced bottom layer), it must be field-cut to fit between the purlins.

Code requires that thermal blocks be used over the purlins with the Sag and Bag system.

EcoTouch® Insulation with PureFiber® Technology for Certified R Metal Building

Product Data Sheet

performance which provides the capability of obtaining nominal thermal resistance (R-values) after laminating. The actual thermal performance obtained from the laminated product will depend primarily on the recovered thickness. Note that these nominal R-values are for the insulation only and do not include the effects of facings, air films, compression of insulation at framing members, conductance through fasteners, or other heat transfer paths particular to an installation.

The recovered thickness achieved will depend on a number of variables determined in the laminating process and hence are outside of Owens Corning's control. To address these issues, a number of leading metal building insulation laminators produce products which meet the National Insulation Association's "Certified Faced Insulation Standard" (NIA 404). Samples of faced products are periodically tested by a nationally recognized laboratory and determined to meet the NIA standard.

Standards, Codes Compliance

- ASTM C991-08, Flexible Fibrous Glass Insulation for Metal Buildings; Type I.
- NAIMA 202-96 (Rev. 2000) Standard for Flexible Fiber Glass Insulation to be Laminated for Use in Metal Buildings.

Certifications and Sustainable Features of EcoTouch® Insulation with PureFiber® Technology for Certified R Metal Building

- EcoTouch® insulation is the only fiberglass insulation product listed in the USDA BioPreferred℠ Catalog.
- Certified by Scientific Certification Systems to contain a minimum of 65% recycled glass content
- Certified to meet indoor air quality standards under the stringent GREENGUARD Indoor Air Quality Certification Program℠, and the GREENGUARD Children & Schools Certification Program℠

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at http://sustainability.owenscorning.com.

OWENS CORNING INSULATING SYSTEMS, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO, USA 43659

1-800-GET-PINK®
www.owenscorningcommercial.com

www.lamtec.com

LAMTEC®

CORPORATION

WMP-VR-R PLUS

POLYPROPYLENE / SCRIM / POLYESTER

Meets ASTM C1136, Type II, IV

FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Tri-directional Fiberglass	4 / inch (MD) 4 / inch (XD)	16 / 100 mm (MD) 16 / 100 mm (XD)
Film	Metallized Polyester	0.0005 inch	12.7 micron

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	14 lbs / 1000 ft²	68 g / m²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr.ft².in Hg)	1.15 ng / N.s
Bursting Strength	ASTM D774	100 psi	7.0 kg / cm²
Tensile Strength	ASTM C1136	35 lbs/inch width (MD) 35 lbs/inch width (XD)	6.1 kN / m (MD) 6.1 kN / m (XD)
Caliper / Thickness	Micrometer	0.007 inch	178 micron
Accelerated Aging	30 Days @ 95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790 -40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @ 240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM C523	85%	85%

FIRE TESTING	ASTM E84 / UL 723		CAN/ULC-S102M	
	Polypropylene Side	Polyester Side	Polypropylene Side	Polyester Side
Flame Spread	10	10	10	10
Smoke Developed	35	40	40	50

FM APPROVED ASSIGNED UL

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

5010 River Road Mount Bethel, Pennsylvania 18343-5610 U.S.A.
Phone: (570) 897-8200 Fax: (570) 897-6081 Web: www.lamtec.com

8/10

EcoTouch® Insulation with PureFiber® Technology for Certified R Metal Building

Product Data Sheet

Typical Physical Properties

Property	Test Method	Result
Thermal Resistance	ASTM C177/C518	(see "Description")
Surface Burning	UL 723/ASTM E84	Flame spread index < 25 Smoke developed index < 50
Combustion Characteristics	ASTM E136	Non-combustible
Water Vapor Sorption	ASTM C1104	≤ 0.2% by volume
Fungi Resistance	ASTM C1338	Passes – no growth exhibited
Corrosiveness	ASTM C665	Passes
Odor Emission	ASTM C1304	Passes – no odor detected

1.The surface burning characteristics of these products have been determined in accordance with UL 723. The standard should be used to measure and describe the properties of materials, products or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

- ☐ R-10, 3.4"
- ☐ R-11, 3.7"
- ☐ R-13, 4.3"
- ☐ R-16, 5.3"
- ☐ R-19, 6.3"
- ☐ R-25, 8.0"
- ☐ R-30, 9.25"

Description

Owens Corning EcoTouch® Insulation with PureFiber® Technology for Certified R Metal Building is a light density fi brous glass blanket designed to be laminated with a variety of appropriate facings. Certified R is available in standard R-values of 10, 11, 13, 16, 19, 25 and 30. Standard roll widths are 36", 48", 60" and 72". Selected Made-to-Order widths are also available.

Key Features

- EcoTouch® insulation is the only fi berglass insulation product listed in the USDA BioPreferredSM Catalog.
- Formaldehyde-free2
- Made with 99% natural3 materials—not acrylic.
- Made in the U.S.A.1

1. Meets requirements of the Buy American Act.
2. Applies to the insulation component only.
3. Unfaced insulation made with a minimum of 99% by weight natural materials consisting of minerals and plant-based compounds.

- Uses a minimum of 65% recycled content—41% being post-consumer.
- GREENGUARD Children & Schools CertifiedSM
- Easy to handle.
- Excellent recovery provides outstanding thermal and acoustical performance.

Product Applications

EcoTouch® Insulation with PureFiber® Technology for Certified R Metal Building is used as part of the insulation system in the roofs and side walls of metal buildings. It is designed to be laminated with a variety of facings to provide attractive interior finishes, abuse resistance, and assistance in control of moisture.

Owens Corning EcoTouch® Insulation with PureFiber® Technology for Certified R Metal Building are fabricated and distributed by a nation wide network of independent laminators assuring prompt service and delivery. Contact your Owens Corning Sales Representative for the names of insulation laminators servicing your area.

Installation

Several methods are used to insulate metal buildings. The usual method is to apply the insulation over the structural members (purlins and girts) and inside the exterior panels. This method generally accommodates single layer installations. Methods are also available to apply insulation between purlins so as to accommodate greater insulation thicknesses and better thermal performance.

Technical Information

Owens Corning EcoTouch® Insulation with PureFiber® Technology for Certified R Metal Building is regularly tested to ensure compliance to the NAIMA 202-96 (Rev. 2000) Standard. Sampling and testing is performed by the National Association of Home Builders Research Center (NAHB-RC). The product is labeled on the top surface of each roll with the nominal R-value and the "NAIMA 202-96" (Rev. 2000) to indicate compliance. The NAIMA 202-96 (Rev. 2000) standard specifi es thermal

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

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PHONE: (407) 347-8614

INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

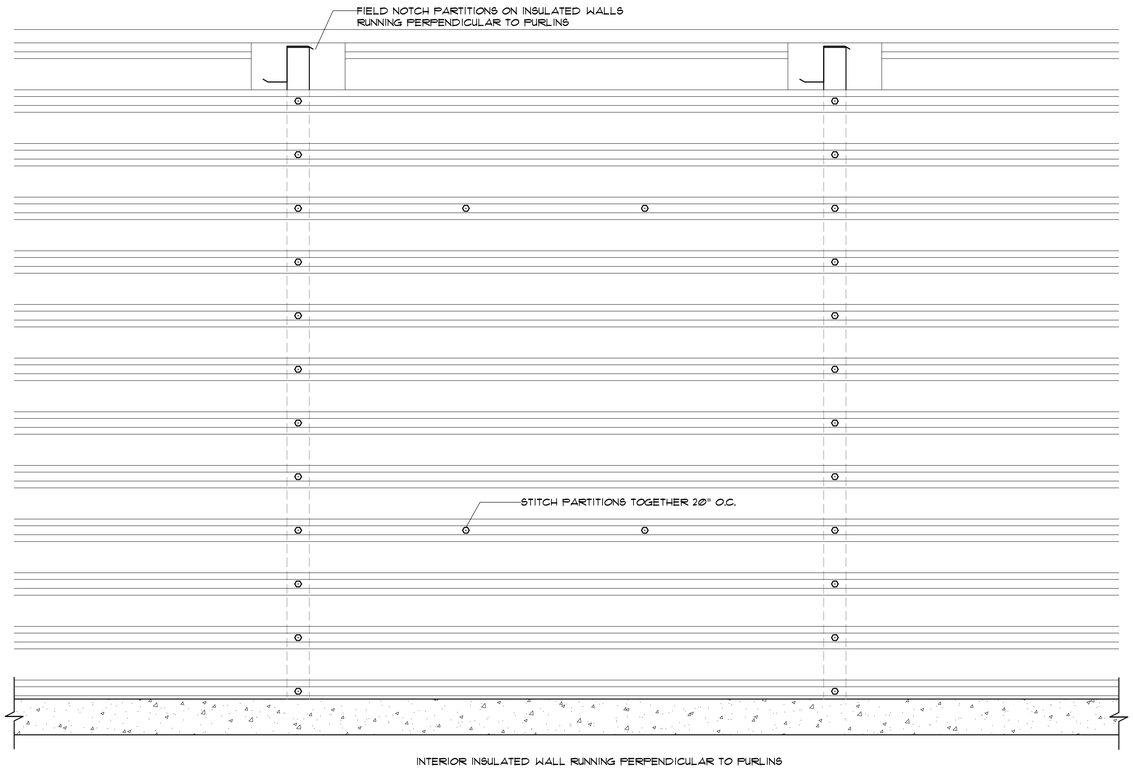
REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

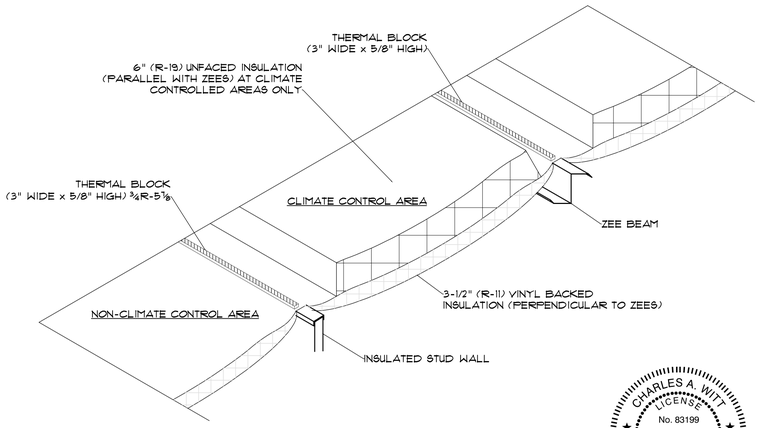
INSULATION DETAILS

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-IN1.0

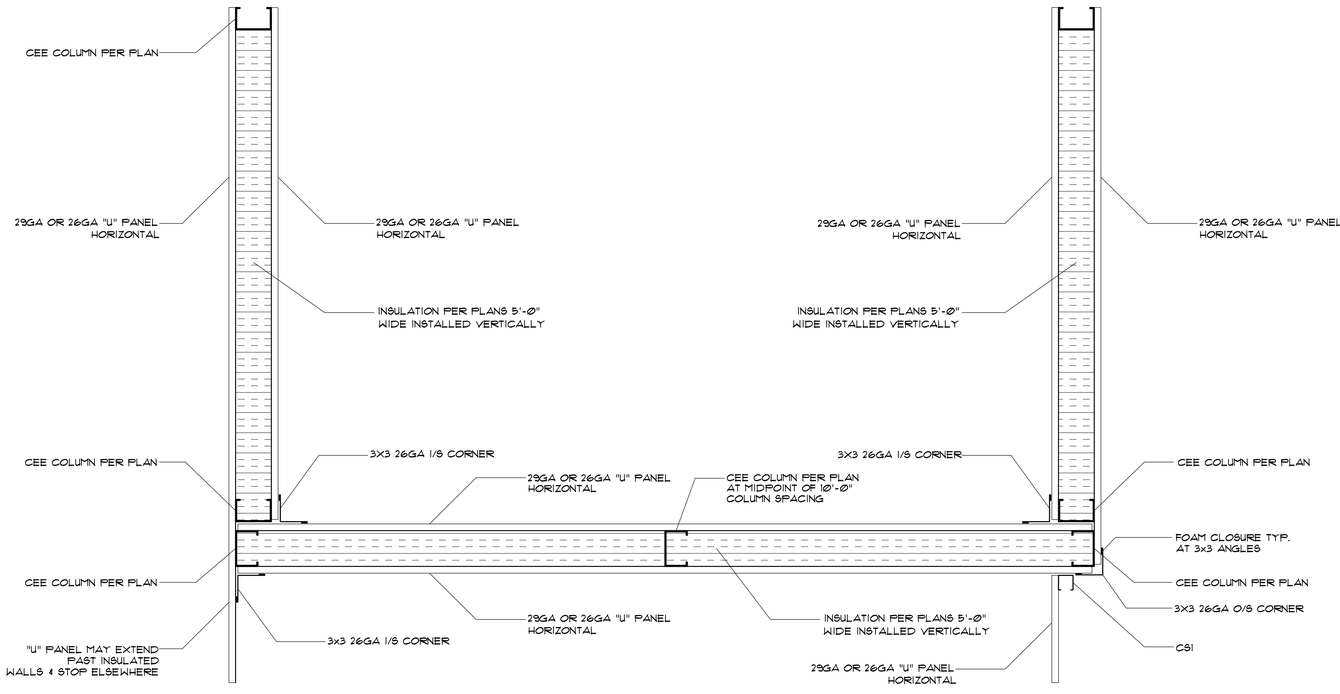


INTERIOR INSULATED WALL RUNNING PERPENDICULAR TO PURLINS

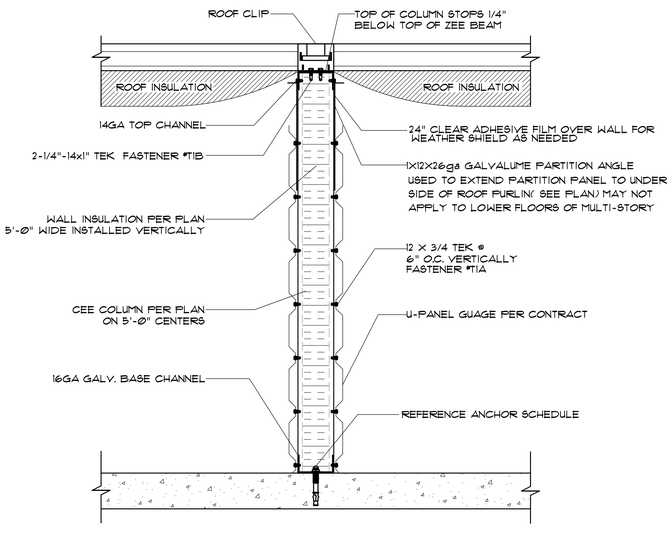


NOTE:
DO NOT INSTALL 3-1/2" UN-FACED INSULATION OVER EXTERIOR NON CLIMATE CONTROL UNITS.

SECTION - ROOF INSULATION
FOR CLIMATE CONTROLLED BUILDING



GENERIC INSULATION WALL LAYOUT
(NOTE: INSULATED WALLS SHEETED LEFT TO RIGHT)



INTERIOR INSULATED WALL RUNNING WITH PURLINS

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MALABAR, FL 32950

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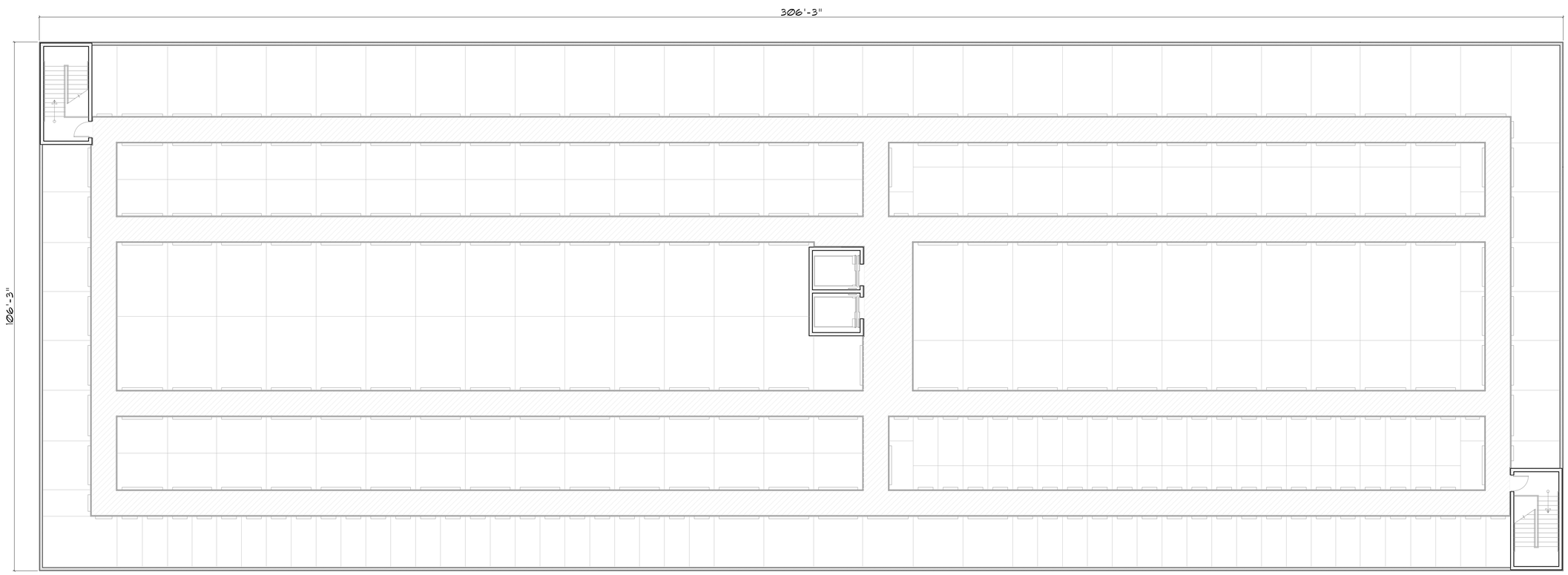
SHEET TITLE

INSULATION DETAILS

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-IN1.1



BLDG A3 "A3" 3RD FLOOR SITE PLAN

3/32" = 1'

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No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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Date: 2024.12.09
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ENGINEERING SOLUTIONS

SEALS

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY CHARLES A. WITT, PE FLORIDA REG# 83199 ON THE DATE AND TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORITY ON ANY ELECTRONIC COPY.

RAPID BUILDING SOLUTIONS

9000 WEST COLONIAL DR.
SUITE 401
OCOEE, FL. 34761
PHONE: (407) 347-9614

INFO@
RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

SITE LAYOUT

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-SL1.1

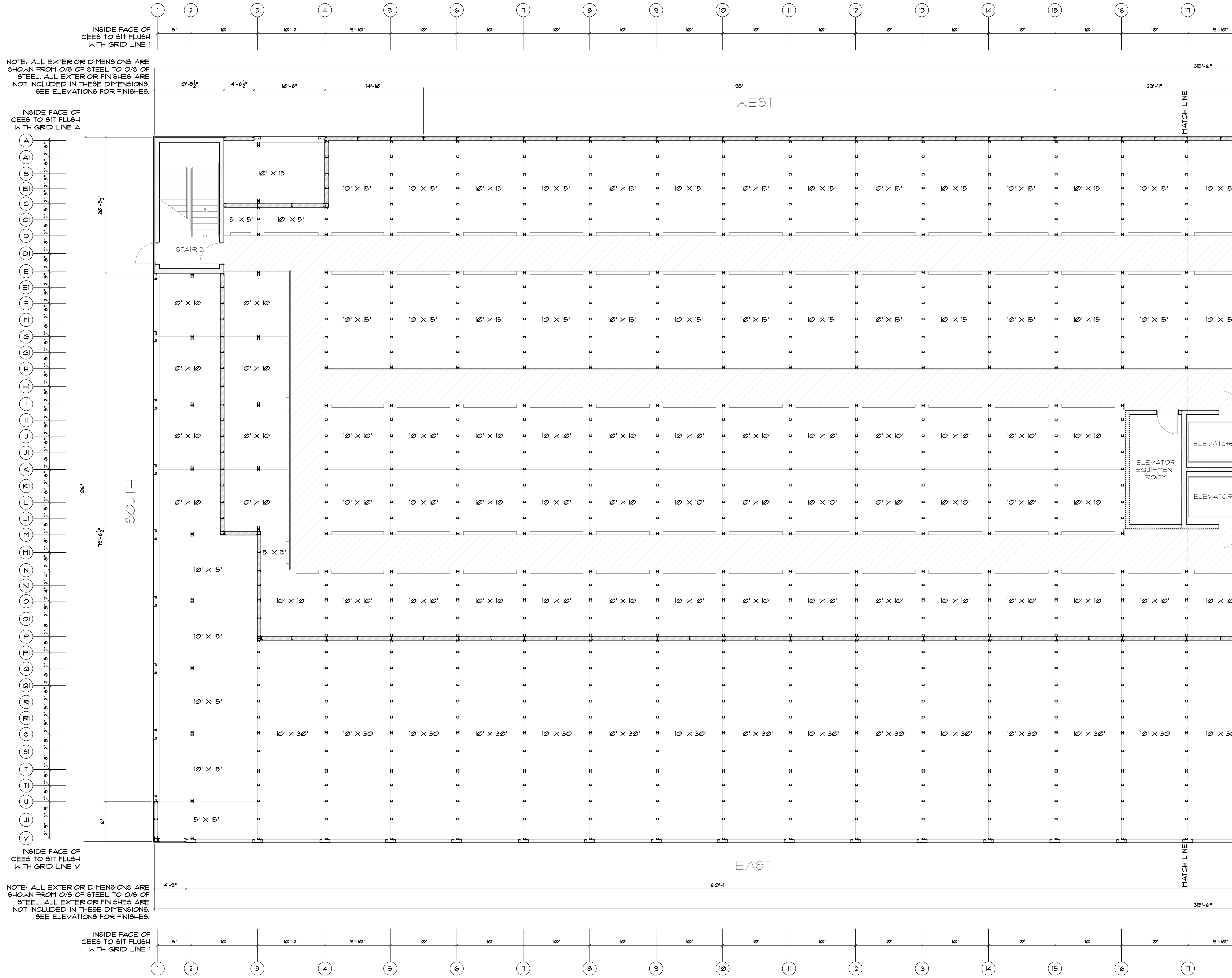
CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:19:07 -06'00'

LINE KEY
PIER, HEADER, PIER
6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 24GA RRPBU PANEL EXTERIOR
6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
RRPBU, 24GA PERIMETER WALL PANEL
HEADER BEAMS NEED MORE THAN 5' BAY
HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
HALL WAY SYSTEM
COLUMNS
TWO HOUR RATED CMU WALL @ STAIR UL # U905
TWO HOUR RATED CMU WALL @ ELEVATOR UL # U905

BOTTOM FLOOR PLAN NOTES (3 STORY)
SEE FOUNDATION PLAN FOR SLAB ON GRADE
TYPICAL INTERIOR SUPPORTING COLUMN SHALL BE C4.12 (4"X2.5"X12GA W/ CONT. 14GA BASE CHANNEL & CONT. 12GA TOP CHANNEL.) TYPICAL EXTERIOR SUPPORTING COLUMN SHALL BE C6.14 (6"X2.5"X14GA W/ CONT. 14GA BASE CHANNEL & CONT. 12GA TOP CHANNEL.)
PARTITION PANEL SHALL BE 26GA HORIZONTAL PARTITION PANEL W/ #10 TEK SCREW SIDELAP FASTENERS @ 20" O.C. MAX.
H6.12 = DOUBLE H6.12 (6X2.5X12GA CEE HEADER) FOR 5' SPANS (COLUMNS SUPPORTING HEADERS ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H8.12 = DOUBLE H8.12 (8X2.5X12GA CEE HEADER) FOR 7.5' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H12.12 = DOUBLE H12.12 (12X2.5X12GA CEE HEADER) FOR 10'-12' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
SG1.16 (1"X16GA SUBGIRT AT 5' O.C. MAX.)

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
BOTTOM FLOOR (MULTI)
BASE TRACK INSTALLATION 1/2"X3 3/4" WEDGE ANCHORS 30" O.C.
PIER INSTALLATION 1/2"X3 3/4" WEDGE ANCHORS
SPECIAL MASONRY TRACK ATTACHMENT 12GA. GALV. (TO CMU) 3/4"X5 1/2" WEDGE ANCHORS
STEEL DECK SUPPORT ANGLE (TO CMU) 3/4"X5 1/2" WEDGE ANCHORS 24" O.C.



BLDG A1 "A1" 1ST FLOOR PARTITION & UNIT PLAN

1/8" = 1'

ALL CONTENTS SHOWN WITHIN THESE PLANS, MAY NOT BE INCLUDED. SEE RAPID'S PROPOSAL/CONTRACT FOR ACTUAL INCLUDED ITEMS.

K&W ENGINEERING SOLUTIONS KNOWLEDGEABLE WITH EXCELLENT SERVICE

SEALS

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SUITE 401
OCOEE, FL. 34761
PHONE: (407) 347-9614
INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE. MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
1ST FLOOR PARTITION & UNIT PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.0

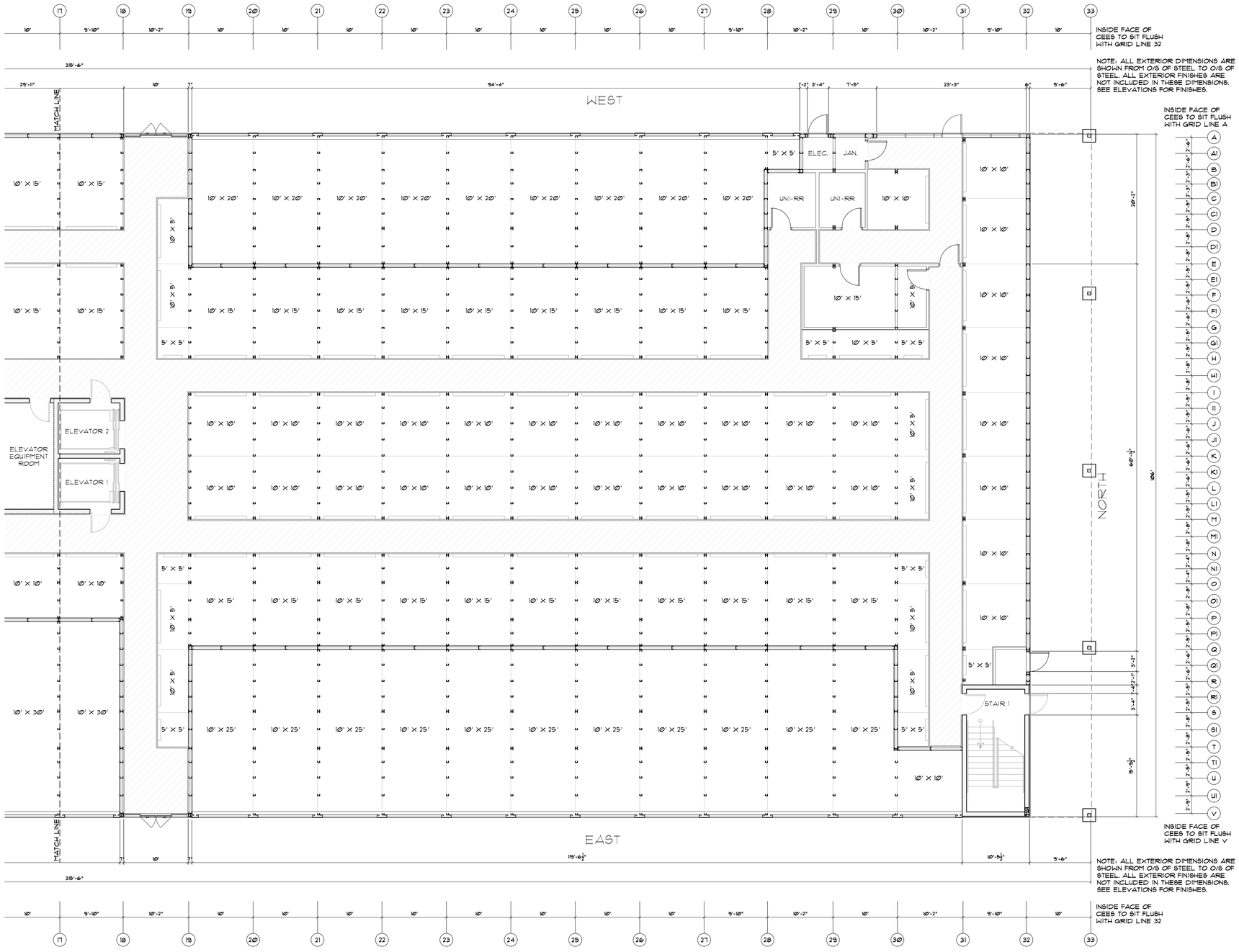
CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:19:38 -06'00'

LINE KEY	
	PIER, HEADER, PIER
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 24GA RRPBU PANEL EXTERIOR
	6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	RRPBU, 24GA PERIMETER WALL PANEL
	HEADER BEAMS NEED MORE THAN 5' BAY
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	HALL WAY SYSTEM
	COLUMNS
	TWO HOUR RATED CMU WALL @ STAIR UL # U905
	TWO HOUR RATED CMU WALL @ ELEVATOR UL # U905

BOTTOM FLOOR PLAN NOTES (3 STORY)
SEE FOUNDATION PLAN FOR SLAB ON GRADE
TYPICAL INTERIOR SUPPORTING COLUMN SHALL BE C4.12 (4"X2.5"X12GA W/ CONT. 14GA BASE CHANNEL & CONT. 12GA TOP CHANNEL.) TYPICAL EXTERIOR SUPPORTING COLUMN SHALL BE C6.14 (6"X2.5"X14GA W/ CONT. 14GA BASE CHANNEL & CONT. 12GA TOP CHANNEL.)
PARTITION PANEL SHALL BE 26GA HORIZONTAL PARTITION PANEL W/ #12 TEK SCREW SIDELAP FASTENERS @ 12" O.C. MAX.
H6.12 = DOUBLE H6.12 (6X2.5X12GA CEE HEADER) FOR 5' SPANS (COLUMNS SUPPORTING HEADERS ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H8.12 = DOUBLE H8.12 (8X2.5X12GA CEE HEADER) FOR 7.5' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H12.12 = DOUBLE H12.12 (12X2.5X12GA CEE HEADER) FOR 10'-12' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
SG1.16 (1"X16GA SUBGIRT AT 5' O.C. MAX.)

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
BOTTOM FLOOR (MULTI)
BASE TRACK INSTALLATION 1/2"X3 3/4" WEDGE ANCHORS 30" O.C.
PIER INSTALLATION 1/2"X3 3/4" WEDGE ANCHORS
SPECIAL MASONRY TRACK ATTACHMENT 12GA. GALV. (TO CMU) 3/4"X5 1/2" WEDGE ANCHORS
STEEL DECK SUPPORT ANGLE (TO CMU) 3/4"X5 1/2" WEDGE ANCHORS 24" O.C.



BLDG A1 "A1" 1ST FLOOR PARTITION & UNIT PLAN

1/8" = 1'

ENGINEERING SOLUTIONS

SEALS

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RAPID BUILDING SOLUTIONS

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OCOEE, FL. 34761
PHONE: (407) 347-8614

INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
1ST FLOOR
PARTITION & UNIT
PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.1

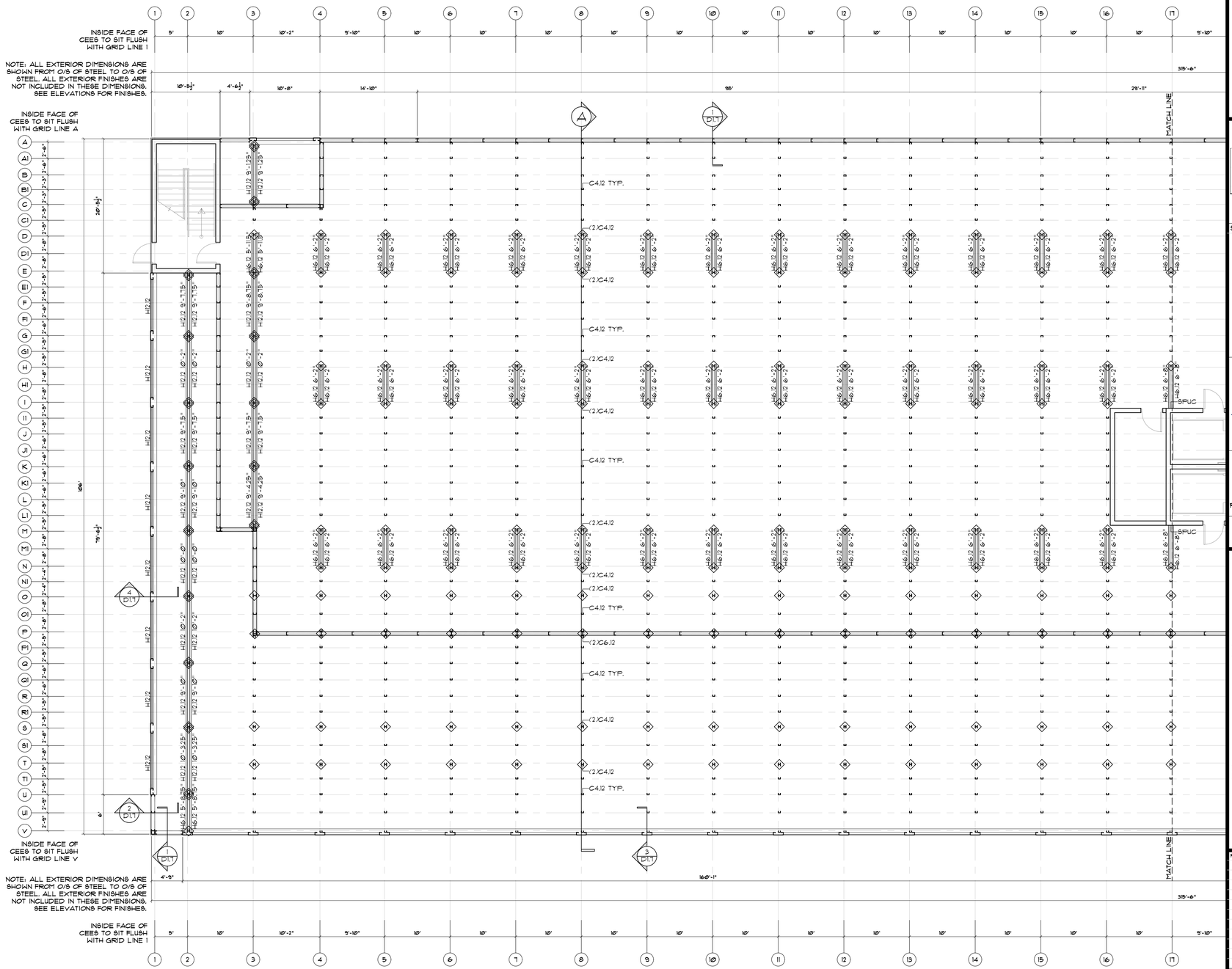
CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:20:16 -06'00'

LINE KEY	
	PIER, HEADER, PIER
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 24GA RRPBU PANEL EXTERIOR
	6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	RRPBU, 24GA PERIMETER WALL PANEL
	HEADER BEAMS NEED MORE THAN 5' BAY
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	HALL WAY SYSTEM
	COLUMNS
	TWO HOUR RATED CMU WALL @ STAIR UL # U905
	TWO HOUR RATED CMU WALL @ ELEVATOR UL # U905

BOTTOM FLOOR PLAN NOTES (3 STORY)
SEE FOUNDATION PLAN FOR SLAB ON GRADE
TYPICAL INTERIOR SUPPORTING COLUMN SHALL BE C4.12 (4"X2.5"X12GA W/ CONT. 14GA BASE CHANNEL & CONT. 12GA TOP CHANNEL.) TYPICAL EXTERIOR SUPPORTING COLUMN SHALL BE C6.14 (6"X2.5"X14GA W/ CONT. 14GA BASE CHANNEL & CONT. 12GA TOP CHANNEL.)
PARTITION PANEL SHALL BE 26GA HORIZONTAL PARTITION PANEL W/ #10 TEK SCREW SIDELAP FASTENERS @ 20" O.C. MAX.
H6.12 = DOUBLE H6.12 (6X2.5X12GA CEE HEADER) FOR 5' SPANS (COLUMNS SUPPORTING HEADERS ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H8.12 = DOUBLE H8.12 (8X2.5X12GA CEE HEADER) FOR 7.5' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H12.12 = DOUBLE H12.12 (12X2.5X12GA CEE HEADER) FOR 10'-12' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
SG1.16 (1"X16GA SUBGIRT AT 5' O.C. MAX.)

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
BOTTOM FLOOR (MULTI)
BASE TRACK INSTALLATION 1/2"X3 3/4" WEDGE ANCHORS 30" O.C.
PIER INSTALLATION 1/2"X3 3/4" WEDGE ANCHORS
SPECIAL MASONRY TRACK ATTACHMENT 12GA. GALV. (TO CMU) 3/4"X5 1/2" WEDGE ANCHORS
STEEL DECK SUPPORT ANGLE (TO CMU) 3/4"X5 1/2" WEDGE ANCHORS 24" O.C.



BLDG A1 "A1" 1ST FLOOR STUD & CHANNEL PLAN

1/8" = 1'

ALL CONTENTS SHOWN WITHIN THESE PLANS, MAY NOT BE INCLUDED. SEE RAPID'S PROPOSAL/CONTRACT FOR ACTUAL INCLUDED ITEMS.

ENGINEERING SOLUTIONS
ENGINEERED RIGHT WITH EXCELLENT SERVICE

SEALS

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OCOEE, FL. 34761
PHONE: (407) 347-9614
INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A1"
1ST FLOOR STUD & CHANNEL PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.2

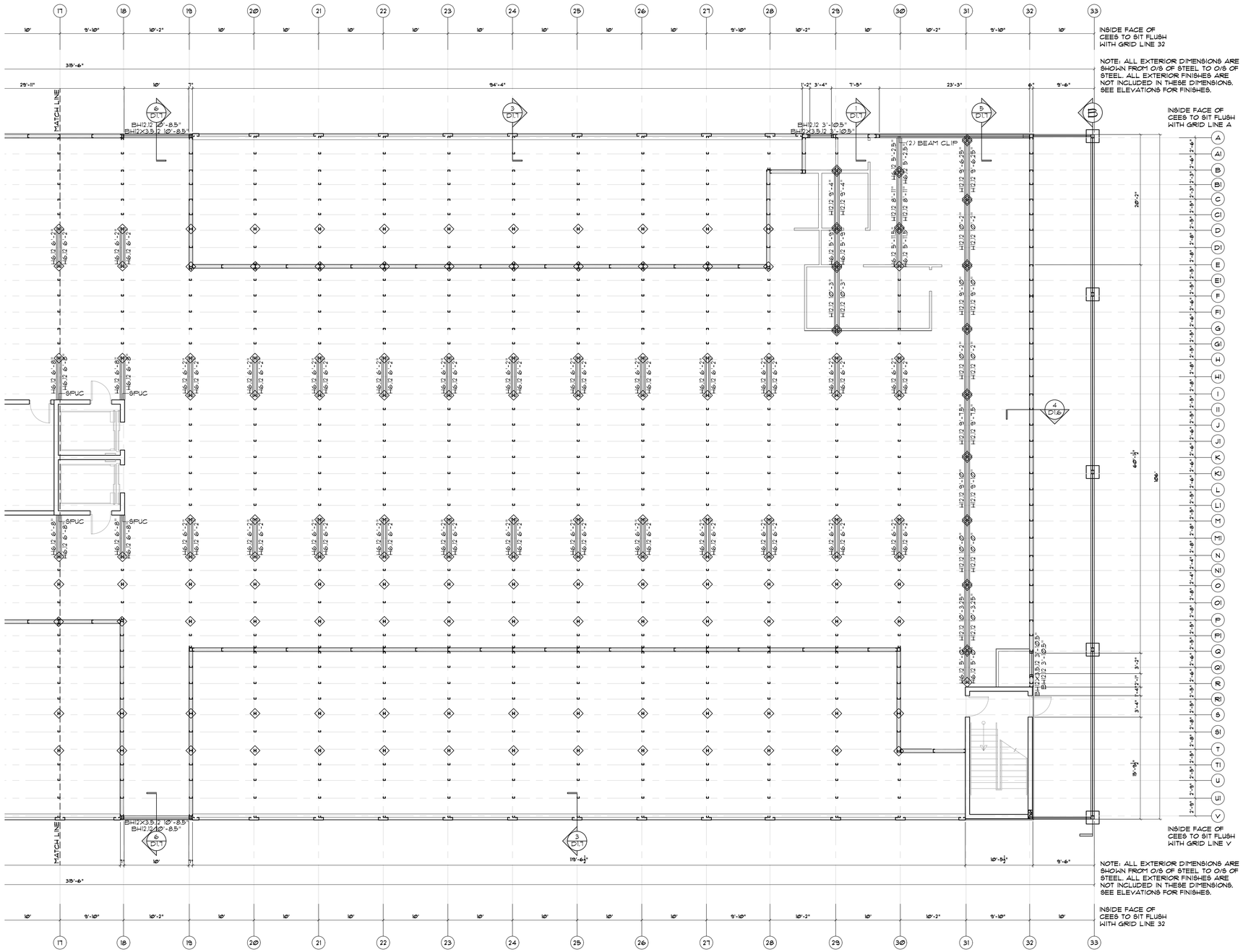
CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:20:51 -06'00'

LINE KEY	
	PIER, HEADER, PIER
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 24GA RRPBU PANEL EXTERIOR
	6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	RRPBU, 24GA PERIMETER WALL PANEL
	HEADER BEAMS NEED MORE THAN 5' BAY
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	HALL WAY SYSTEM
	COLUMNS
	TWO HOUR RATED CMU WALL @ STAIR UL # U905
	TWO HOUR RATED CMU WALL @ ELEVATOR UL # U905

BOTTOM FLOOR PLAN NOTES (3 STORY)
SEE FOUNDATION PLAN FOR SLAB ON GRADE
TYPICAL INTERIOR SUPPORTING COLUMN SHALL BE C4.12 (4"X2.5"X12GA W/ CONT. 14GA BASE CHANNEL & CONT. 12GA TOP CHANNEL.) TYPICAL EXTERIOR SUPPORTING COLUMN SHALL BE C6.14 (6"X2.5"X14GA W/ CONT. 14GA BASE CHANNEL & CONT. 12GA TOP CHANNEL.)
PARTITION PANEL SHALL BE 26GA HORIZONTAL PARTITION PANEL W/ #10 TEK SCREW SIDELAP FASTENERS @ 20" O.C. MAX.
H6.12 = DOUBLE H6.12 (6X2.5X12GA CEE HEADER) FOR 5' SPANS (COLUMNS SUPPORTING HEADERS ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H8.12 = DOUBLE H8.12 (8X2.5X12GA CEE HEADER) FOR 7.5' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H12.12 = DOUBLE H12.12 (12X2.5X12GA CEE HEADER) FOR 10'-12' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
SG1.16 (1"X16GA SUBGIRT AT 5' O.C. MAX.)

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
BOTTOM FLOOR (MULTI)
BASE TRACK INSTALLATION 1/2"X3 3/4" WEDGE ANCHORS 30" O.C.
PIER INSTALLATION 1/2"X3 3/4" WEDGE ANCHORS
SPECIAL MASONRY TRACK ATTACHMENT 12GA. GALV. (TO CMU) 3/4"X5 1/2" WEDGE ANCHORS
STEEL DECK SUPPORT ANGLE (TO CMU) 3/4"X5 1/2" WEDGE ANCHORS 24" O.C.



BLDG A1 "A1" 1ST FLOOR STUD & CHANNEL PLAN

1/8" = 1'

ENGINEERING SOLUTIONS
KNOWLEDGEABLE WITH EXCELLENT SERVICE

SEALS

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OCOEE, FL. 34761
PHONE: (407) 347-9614

INFO@
RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

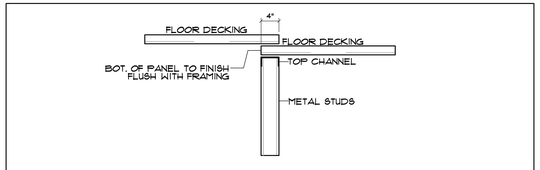
BLDG. "A1"
1ST FLOOR STUD & CHANNEL PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.3

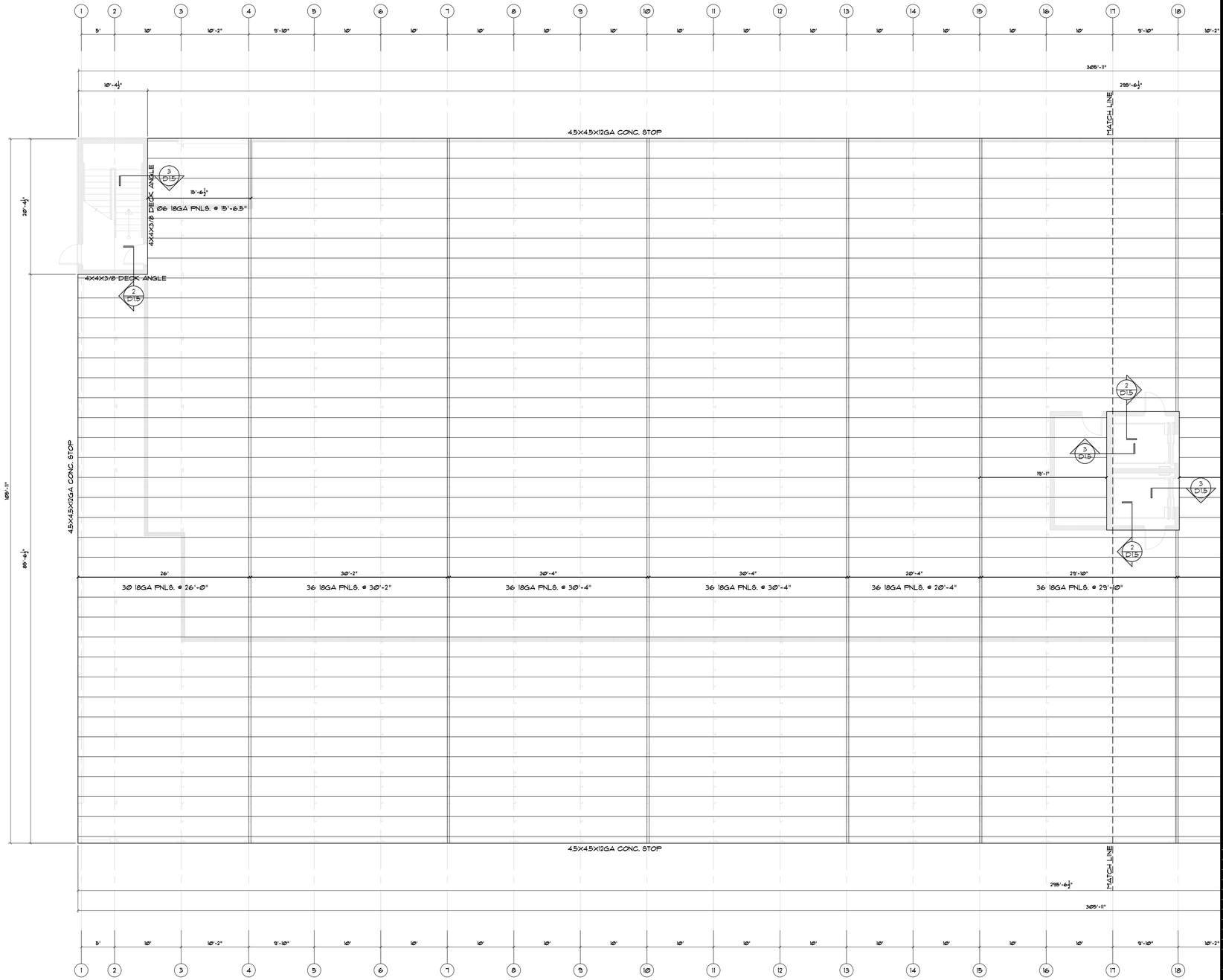
CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:21:32 -06'00'



NOTE TO THE GENERAL CONTRACTOR:
ALL LAP SEAMS AND EDGE CONDITIONS OF DECKING ARE TO BE SEALED PRIOR TO THE POURING OF CONCRETE AND IS NOT THE RESPONSIBILITY OF RAPID BUILDING SOLUTIONS (RBS). FAILURE TO SEAL THE SEAMS AND EDGE CONDITIONS WILL ALLOW LEAKAGE OF CONCRETE. ANY CLEANUP OR DAMAGES TO MATERIALS CAUSED WILL NOT BE THE RESPONSIBILITY OF RBS.

TYPICAL ELEVATED FLOOR CONSTRUCTION
4 1/2" (2 1/2" CLEAR) REGULAR WEIGHT CONCRETE 3000 PSI OVER VULCRAFT 2VL18 GALV COMPOSITE METAL DECK. REINFORCE SLAB W/ 6x6-W1.4xW1.4 FLAT SHEETS SUPPORTED ON BOLSTER CHAIRS. SET FLAT SHEETS 1 1/2" ABOVE DECK. FASTEN DECK TO SUPPORT STRUCTURE WITH #2 TEK SELF-DRILLING SCREWS AT EA FLUTE, 36/4 PATTERN WITH (4) SIDELAP FASTENERS.
ELEVATED FLOOR DECKS ARE DESIGNED FOR A 20 PSF CONSTRUCTION LIVE LOAD. RIDE ON TROWEL MACHINES SHOULD NOT BE USED UNLESS THE DECK IS SHORED.



BLDG A1 "A1" FIRST FLOOR DECKING PLAN
1/8" = 1'

ALL CONTENTS SHOWN WITHIN THESE PLANS, MAY NOT BE INCLUDED. SEE RAPID'S PROPOSAL/CONTRACT FOR ACTUAL INCLUDED ITEMS.

ENGINEERING SOLUTIONS
KNOWLEDGEABLE WITH EXCELLENT SERVICE

SEALS

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JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

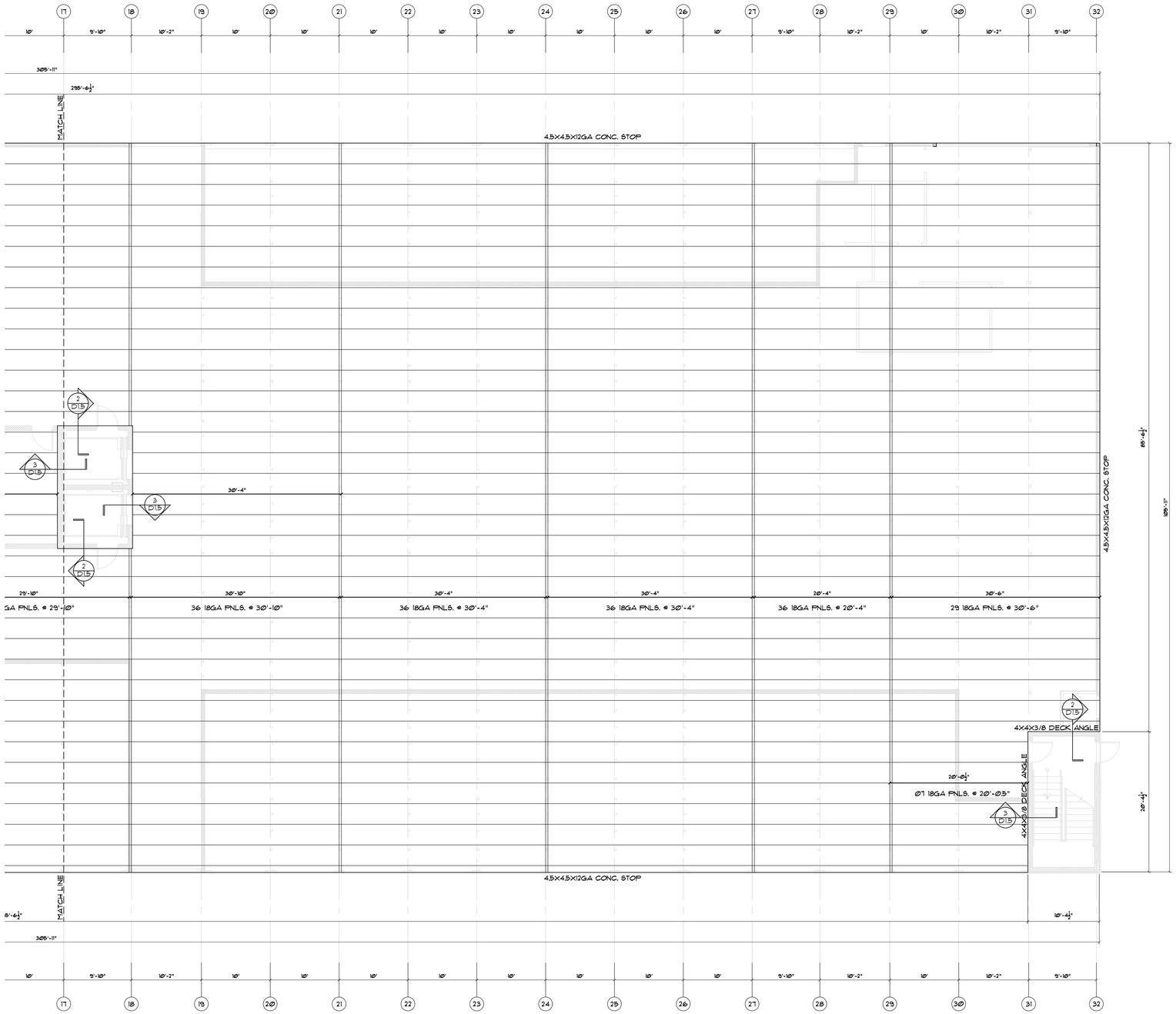
BLDG. "A"
1ST FLOOR
DECKING PLAN

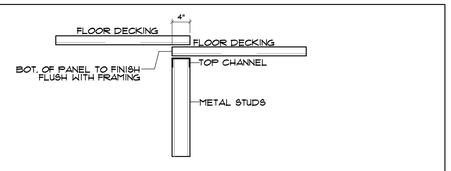
DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.4

CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:22:36 -06'00'





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TYPICAL ELEVATED FLOOR CONSTRUCTION
4 1/2" (2 1/2" CLEAR) REGULAR WEIGHT CONCRETE 3000 PSI OVER VULCRAFT 2VL18 GALV COMPOSITE METAL DECK. REINFORCE SLAB W/ 6x6-W1.4xW1.4 FLAT SHEETS SUPPORTED ON BOLSTER CHAIRS. SET FLAT SHEETS 1 1/2" ABOVE DECK. FASTEN DECK TO SUPPORT STRUCTURE WITH #2 TEK SELF-DRILLING SCREWS AT EA FLUTE, 36/4 PATTERN WITH (4) SIDELAP FASTENERS.
ELEVATED FLOOR DECKS ARE DESIGNED FOR A 20 PSF CONSTRUCTION LIVE LOAD. RIDE ON TROWEL MACHINES SHOULD NOT BE USED UNLESS THE DECK IS SHORED.

BLDG A1 "A1" FIRST FLOOR DECKING PLAN

1/8" = 1'

ALL CONTENTS SHOWN WITHIN THESE PLANS, MAY NOT BE INCLUDED. SEE RAPID'S PROPOSAL/CONTRACT FOR ACTUAL INCLUDED ITEMS.

ENGINEERING SOLUTIONS

SEALS

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OCOEE, FL. 34761
PHONE: (407) 347-9614
INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
1ST FLOOR
DECKING PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.5

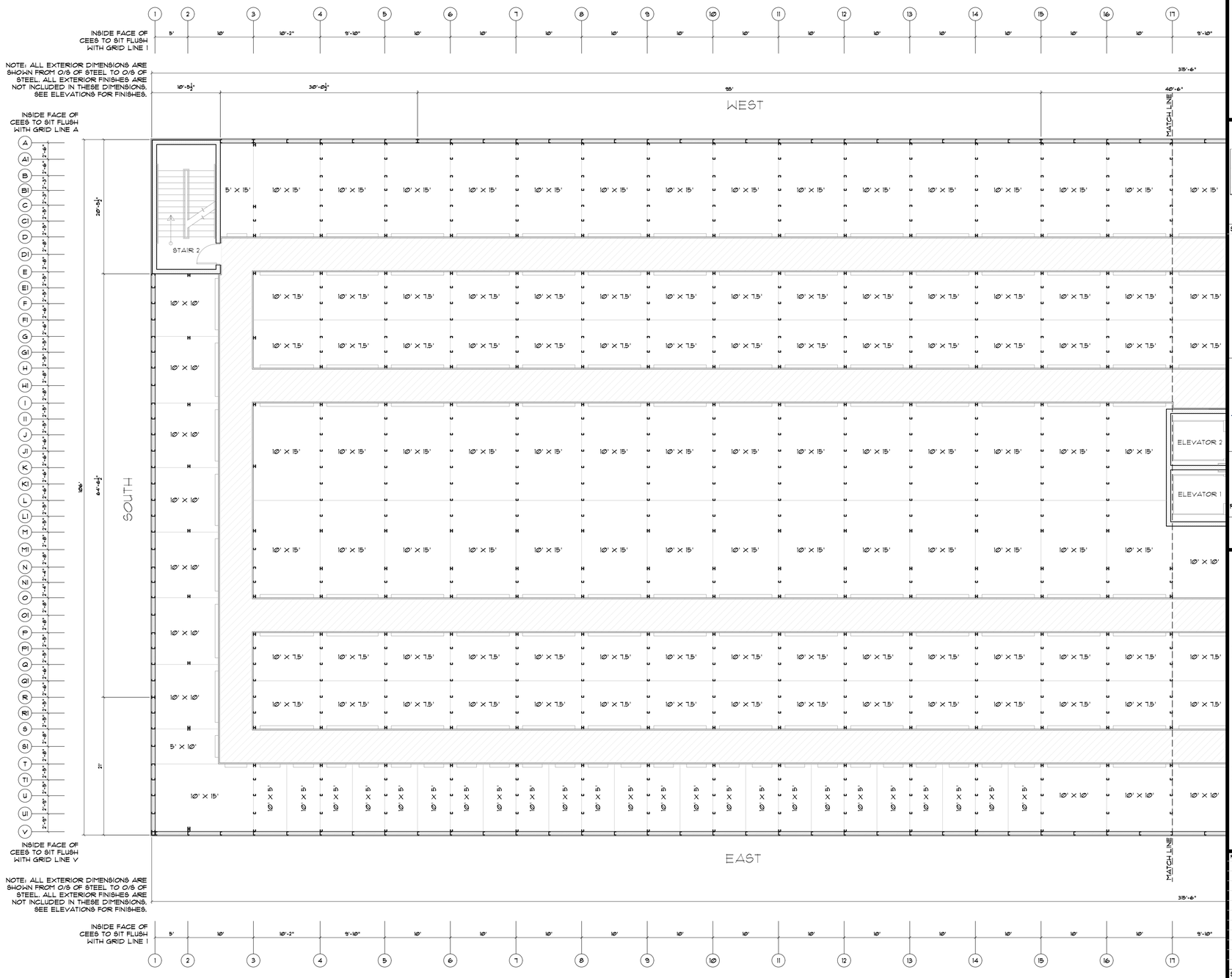
CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:23:23 -06'00'

LINE KEY	
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 24GA RRPBU HORIZONTAL PANEL EXTERIOR
	RRPBU, 24GA HORIZONTAL PERIMETER WALL PANEL
	HEADER BEAMS NEED MORE THAN 5' BAY
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	HALL WAY SYSTEM
	COLUMNS
	TWO HOUR RATED CMU WALL @ STAIR UL # U905
	TWO HOUR RATED CMU WALL @ ELEVATOR UL # U905

MIDDLE FLOOR PLAN NOTES (3 STORY)
T/SECOND FLOOR SLAB = 10'-8"
TYPICAL ELEVATED FLOOR CONSTRUCTION BETWEEN 1ST AND 2ND FLOORS SHALL BE 4 1/2". (2 1/2" CLEAR) REGULAR WEIGHT CONCRETE 3000 PSI OVER VULCRAFT 2VL11B GALVANIZED COMPOSITE METAL DECK. REINFORCE SLAB WITH 6X6-W1.4XW1.4 FLAT SHEETS SUPPORTED ON BOLSTER CHAIRS. SET FLAT SHEETS 1 1/2" ABOVE DECK. FASTEN DECK TO SUPPORT STRUCTURE WITH #12 TEK SELF-DRILLING SCREWS AT EA. FLUTE, 36/4 PATTERN WITH (4) SIDELAP FASTNERS. ELEVATED FLOOR DECKS ARE DESIGNED FOR A 20 PSF CONSTRUCTION LIVE LOAD. RIDE ON TROWEL MACHINES SHOULD NOT BE USED UNLESS THE DECK IS SHORED
TYPICAL INTERIOR SUPPORTING COLUMN SHALL BE C4.14 (4"X2.5"X14GA W/ CONT. 16GA BASE CHANNEL & CONT. 14GA TOP CHANNEL.) TYPICAL EXTERIOR SUPPORTING COLUMN SHALL BE C6.16 (6"X2.5"X16GA W/ CONT. 16GA BASE CHANNEL & CONT. 14GA TOP CHANNEL.)
PARTITION PANEL SHALL BE 29GA HORIZONTAL PARTITION PANEL W/ #10 TEK SCREW SIDELAP FASTENERS @ 20" O.C. MAX.
H6.12 = DOUBLE H6.12 (6X2.5X12GA CEE HEADER) FOR 5'-7.5' SPANS (COLUMNS SUPPORTING HEADERS ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H8.12 = DOUBLE H8.12 (8X2.5X12GA CEE HEADER) FOR 7.5'-10' SPANS (COLUMNS SUPPORTING HEADER ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H12.12 = DOUBLE H12.12 (12X2.5X12GA CEE HEADER) FOR 15' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
SG1.16 (1"X16GA SUBGIRT AT 5' O.C. MAX.)

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
MIDDLE FLOOR (MULTI)
BASE TRACK INSTALLATION
1/2"X2 3/4" WEDGE ANCHORS 32" O.C.
SPECIAL MASONRY TRACK ATTACHMENT 12GA. GALV. (TO CMU)
3/4"X5 1/2" WEDGE ANCHORS
STEEL DECK SUPPORT ANGLE (TO CMU)
3/4"X5 1/2" WEDGE ANCHORS 24" O.C.



BLDG A2 "A2" 2ND FLOOR PARTITION & UNIT PLAN
1/8" = 1'

ENGINEERING SOLUTIONS
KNOWLEDGEABLE WITH EXCELLENT SERVICE

SEALS

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY CHARLES A. WITT, PE FLORIDA REG# 83199 ON THE DATE AND TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORITY ON ANY ELECTRONIC COPY.

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BUILDING SOLUTIONS
9000 WEST COLONIAL DR. SUITE 401
OCOEE, FL. 34761
PHONE: (407) 347-9614
INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
2ND FLOOR PARTITION & UNIT PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.6

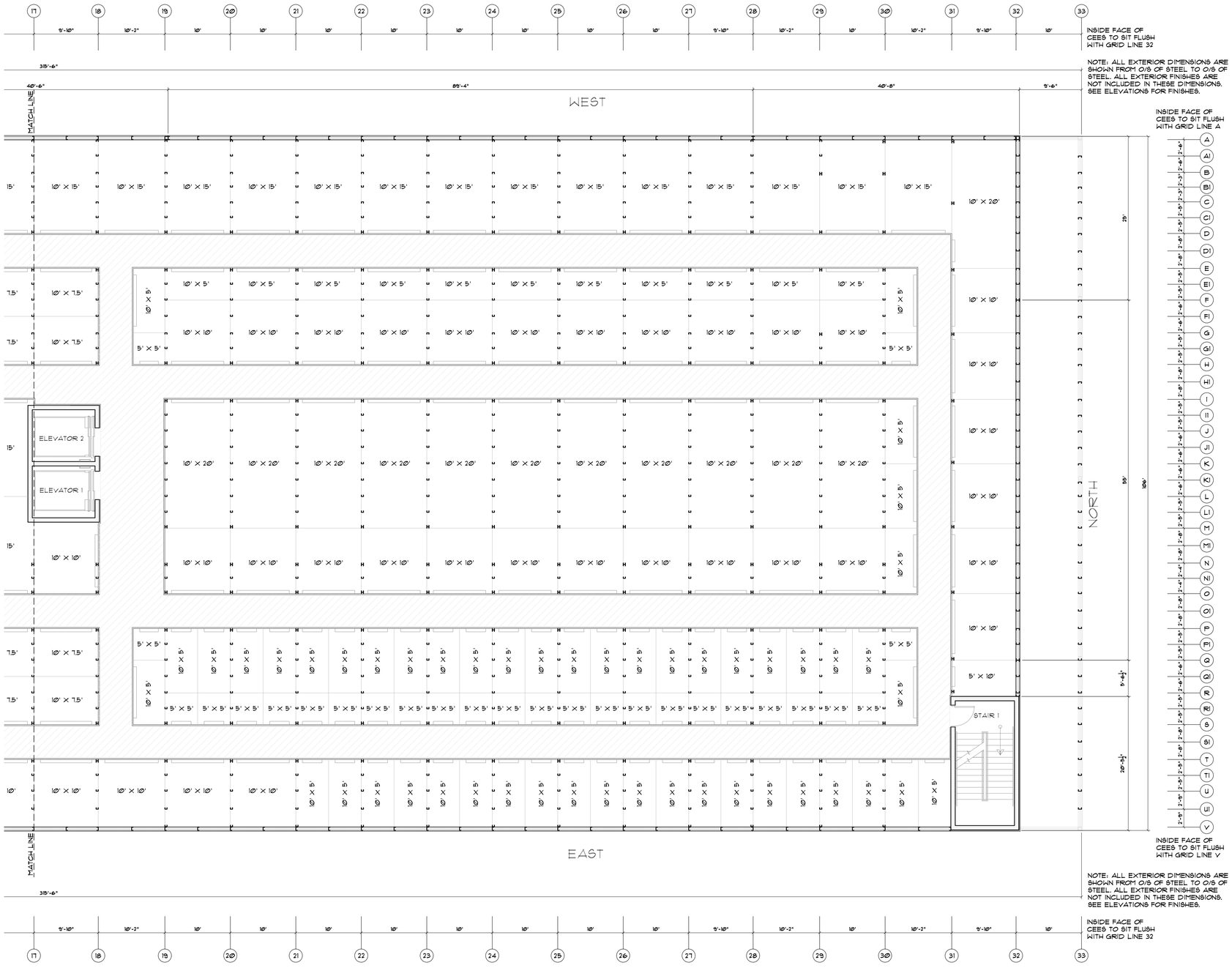
CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:24:09 -06'00'

LINE KEY	
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 24GA RRPBU HORIZONTAL PANEL EXTERIOR
	RRPBU, 24GA HORIZONTAL PERIMETER WALL PANEL
	HEADER BEAMS NEED MORE THAN 5' BAY
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	HALL WAY SYSTEM
	COLUMNS
	TWO HOUR RATED CMU WALL @ STAIR UL # U905
	TWO HOUR RATED CMU WALL @ ELEVATOR UL # U905

MIDDLE FLOOR PLAN NOTES (3 STORY)
T/SECOND FLOOR SLAB = 10'-8"
TYPICAL ELEVATED FLOOR CONSTRUCTION BETWEEN 1ST AND 2ND FLOORS SHALL BE 4 1/2". (2 1/2" CLEAR) REGULAR WEIGHT CONCRETE 3000 PSI OVER VULCRAFT 2VL1.18 GALVANIZED COMPOSITE METAL DECK. REINFORCE SLAB WITH 6X6-W1.4XW1.4 FLAT SHEETS SUPPORTED ON BOLSTER CHAIRS. SET FLAT SHEETS 1 1/2" ABOVE DECK. FASTEN DECK TO SUPPORT STRUCTURE WITH #2 TEK SELF-DRILLING SCREWS AT EA. FLUTE, 36/4 PATTERN WITH (4) SIDELAP FASTNERS. ELEVATED FLOOR DECKS ARE DESIGNED FOR A 20 PSF CONSTRUCTION LIVE LOAD. RIDE ON TROWEL MACHINES SHOULD NOT BE USED UNLESS THE DECK IS SHORED
TYPICAL INTERIOR SUPPORTING COLUMN SHALL BE C4.14 (4"X2.5"X14GA W/ CONT. 16GA BASE CHANNEL & CONT. 14GA TOP CHANNEL.) TYPICAL EXTERIOR SUPPORTING COLUMN SHALL BE C6.16 (6"X2.5"X16GA W/ CONT. 16GA BASE CHANNEL & CONT. 14GA TOP CHANNEL.)
PARTITION PANEL SHALL BE 29GA HORIZONTAL PARTITION PANEL W/ #10 TEK SCREW SIDELAP FASTENERS @ 20" O.C. MAX.
H6.12 = DOUBLE H6.12 (6X2.5X12GA CEE HEADER) FOR 5'-7.5' SPANS (COLUMNS SUPPORTING HEADERS ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H8.12 = DOUBLE H8.12 (8X2.5X12GA CEE HEADER) FOR 7.5'-10' SPANS (COLUMNS SUPPORTING HEADER ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H12.12 = DOUBLE H12.12 (12X2.5X12GA CEE HEADER) FOR 15' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
SG1.16 (1"X16GA SUBGIRT AT 5' O.C. MAX.)

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
MIDDLE FLOOR (MULTI)
BASE TRACK INSTALLATION 1/2"X2 3/4" WEDGE ANCHORS 38" O.C.
SPECIAL MASONRY TRACK ATTACHMENT 12GA. GALV. (TO CMU) 3/4"X5 1/2" WEDGE ANCHORS
STEEL DECK SUPPORT ANGLE (TO CMU) 3/4"X5 1/2" WEDGE ANCHORS 24" O.C.



BLDG A2 "A2" 2ND FLOOR PARTITION & UNIT PLAN

1/8" = 1'

ENGINEERING SOLUTIONS
KNOWLEDGEABLE WITH EXCELLENT SERVICE

SEALS

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INFO@
RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
2ND FLOOR PARTITION & UNIT PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.7

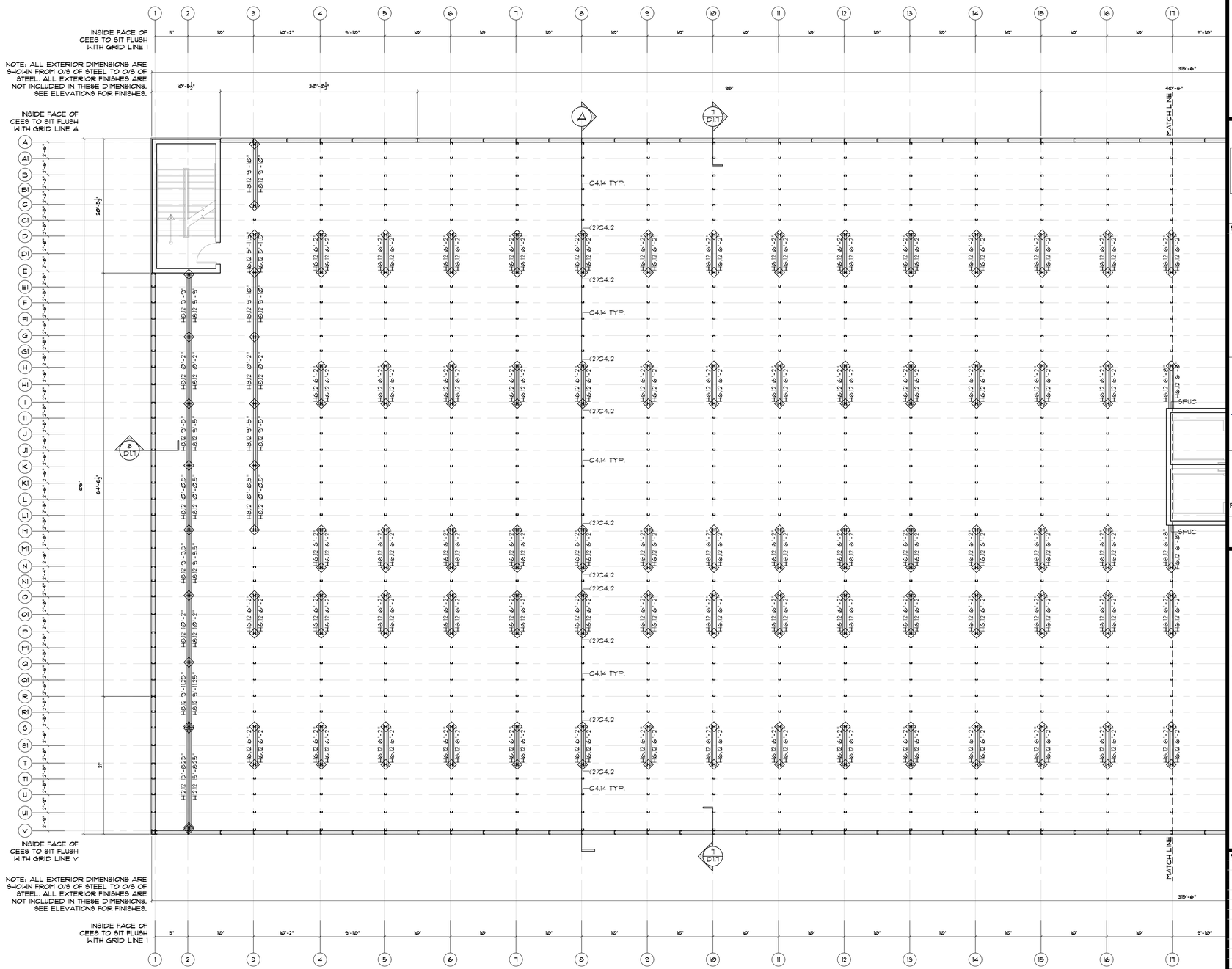
CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:25:05 -06'00'

LINE KEY	
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 24GA RRPBU HORIZONTAL PANEL EXTERIOR
	RRPBU, 24GA HORIZONTAL PERIMETER WALL PANEL
	HEADER BEAMS NEED MORE THAN 5' BAY
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	HALL WAY SYSTEM
	COLUMNS
	TWO HOUR RATED CMU WALL @ STAIR UL # U905
	TWO HOUR RATED CMU WALL @ ELEVATOR UL # U905

MIDDLE FLOOR PLAN NOTES (3 STORY)
T/SECOND FLOOR SLAB = 10'-8"
TYPICAL ELEVATED FLOOR CONSTRUCTION BETWEEN 1ST AND 2ND FLOORS SHALL BE 4 1/2". (2 1/2" CLEAR) REGULAR WEIGHT CONCRETE 3000 PSI OVER VULCRAFT 2VLI18 GALVANIZED COMPOSITE METAL DECK. REINFORCE SLAB WITH 6X6-W1.4XW1.4 FLAT SHEETS SUPPORTED ON BOLSTER CHAIRS. SET FLAT SHEETS 1 1/2" ABOVE DECK. FASTEN DECK TO SUPPORT STRUCTURE WITH #12 TEK SELF-DRILLING SCREWS AT E.A. FLUTE, 36/4 PATTERN WITH (4) SIDELAP FASTNERS. ELEVATED FLOOR DECKS ARE DESIGNED FOR A 20 PSF CONSTRUCTION LIVE LOAD. RIDE ON TROWEL MACHINES SHOULD NOT BE USED UNLESS THE DECK IS SHORED
TYPICAL INTERIOR SUPPORTING COLUMN SHALL BE C4.14 (4"X2.5"X14GA W/ CONT. 16GA BASE CHANNEL & CONT. 14GA TOP CHANNEL.) TYPICAL EXTERIOR SUPPORTING COLUMN SHALL BE C6.16 (6"X2.5"X16GA W/ CONT. 16GA BASE CHANNEL & CONT. 14GA TOP CHANNEL.)
PARTITION PANEL SHALL BE 29GA HORIZONTAL PARTITION PANEL W/ #10 TEK SCREW SIDELAP FASTENERS @ 20" O.C. MAX.
H6.12 = DOUBLE H6.12 (6X2.5X12GA CEE HEADER) FOR 5'-7.5' SPANS (COLUMNS SUPPORTING HEADERS ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H8.12 = DOUBLE H8.12 (8X2.5X12GA CEE HEADER) FOR 7.5'-10' SPANS (COLUMNS SUPPORTING HEADER ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H12.12 = DOUBLE H12.12 (12X2.5X12GA CEE HEADER) FOR 15' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
SG11.16 (1"X16GA SUBGIRT AT 5' O.C. MAX.)

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
MIDDLE FLOOR (MULTI)
BASE TRACK INSTALLATION
1/2"X2 3/4" WEDGE ANCHORS 32" O.C.
SPECIAL MASONRY TRACK ATTACHMENT 12GA. GALV. (TO CMU)
3/4"X5 1/2" WEDGE ANCHORS
STEEL DECK SUPPORT ANGLE (TO CMU)
3/4"X5 1/2" WEDGE ANCHORS 24" O.C.



BLDG A2 "A2" 2ND FLOOR STUD & CHANNEL PLAN

1/8" = 1'

ALL CONTENTS SHOWN WITHIN THESE PLANS, MAY NOT BE INCLUDED. SEE RAPID'S PROPOSAL/CONTRACT FOR ACTUAL INCLUDED ITEMS.

ENGINEERING SOLUTIONS

SEALS

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OCOEE, FL. 34761
PHONE: (407) 347-9614
INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
2ND FLOOR STUD & CHANNEL PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.8

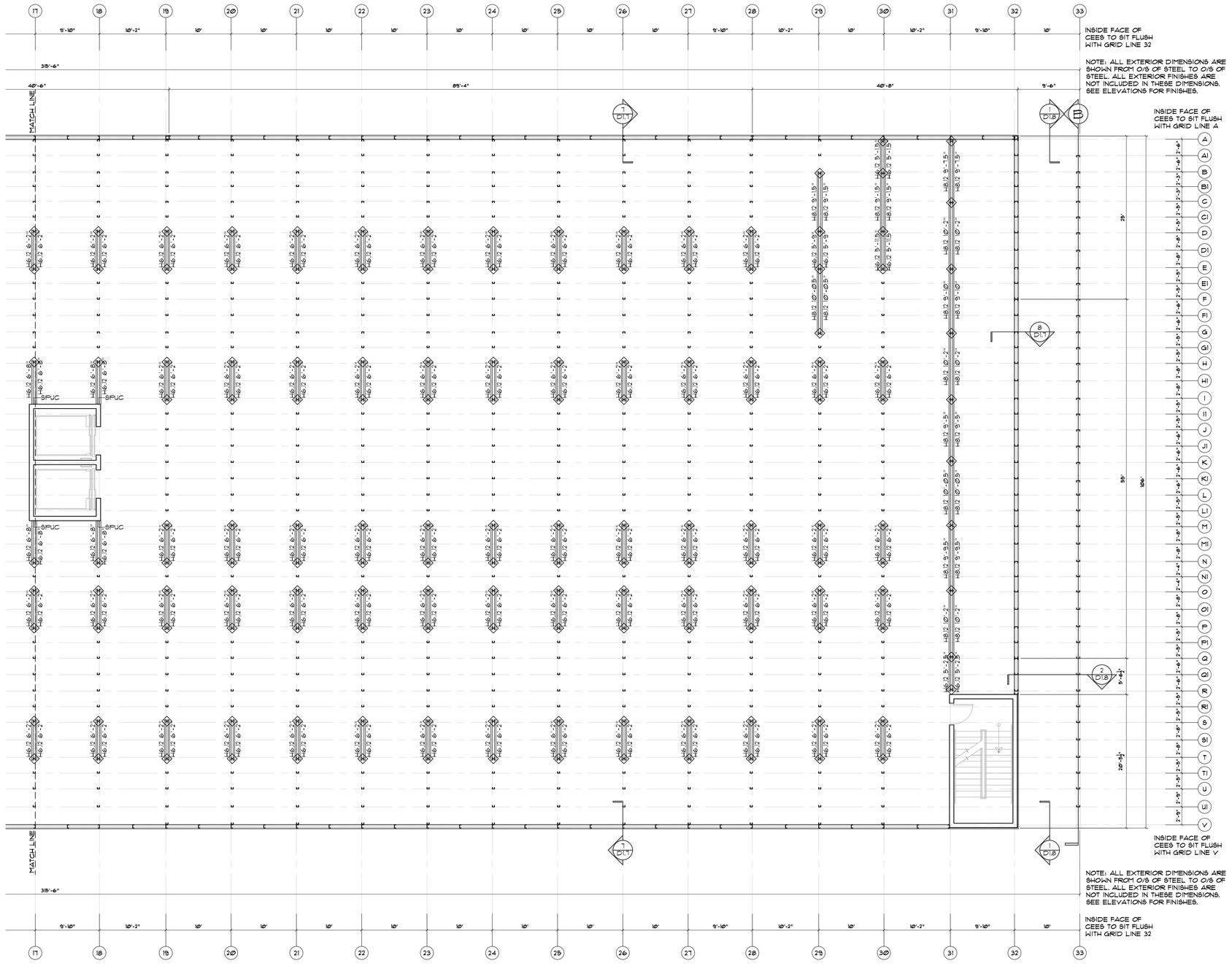
CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:25:56 -06'00'

LINE KEY	
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 24GA RRPBU HORIZONTAL PANEL EXTERIOR
	RRPBU, 24GA HORIZONTAL PERIMETER WALL PANEL
	HEADER BEAMS NEED MORE THAN 5' BAY
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	HALL WAY SYSTEM
	COLUMNS
	TWO HOUR RATED CMU WALL @ STAIR UL # U905
	TWO HOUR RATED CMU WALL @ ELEVATOR UL # U905

MIDDLE FLOOR PLAN NOTES (3 STORY)
T/SECOND FLOOR SLAB = 10'-8"
TYPICAL ELEVATED FLOOR CONSTRUCTION BETWEEN 1ST AND 2ND FLOORS SHALL BE 4 1/2". (2 1/2" CLEAR) REGULAR WEIGHT CONCRETE 3000 PSI OVER VULCRAFT 2VL118 GALVANIZED COMPOSITE METAL DECK. REINFORCE SLAB WITH 6X6-W1.4XW1.4 FLAT SHEETS SUPPORTED ON BOLSTER CHAIRS. SET FLAT SHEETS 1 1/2" ABOVE DECK. FASTEN DECK TO SUPPORT STRUCTURE WITH #12 TEK SELF-DRILLING SCREWS AT EA. FLUTE, 36/4 PATTERN WITH (4) SIDELAP FASTNERS. ELEVATED FLOOR DECKS ARE DESIGNED FOR A 20 PSF CONSTRUCTION LIVE LOAD. RIDE ON TROWEL MACHINES SHOULD NOT BE USED UNLESS THE DECK IS SHORED
TYPICAL INTERIOR SUPPORTING COLUMN SHALL BE C4.14 (4"X2.5"X14GA W/ CONT. 16GA BASE CHANNEL & CONT. 14GA TOP CHANNEL.) TYPICAL EXTERIOR SUPPORTING COLUMN SHALL BE C6.16 (6"X2.5"X16GA W/ CONT. 16GA BASE CHANNEL & CONT. 14GA TOP CHANNEL.)
PARTITION PANEL SHALL BE 29GA HORIZONTAL PARTITION PANEL W/ #10 TEK SCREW SIDELAP FASTENERS @ 20" O.C. MAX.
H6.12 = DOUBLE H6.12 (6X2.5X12GA CEE HEADER) FOR 5'-7.5' SPANS (COLUMNS SUPPORTING HEADERS ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H8.12 = DOUBLE H8.12 (8X2.5X12GA CEE HEADER) FOR 7.5'-10' SPANS (COLUMNS SUPPORTING HEADER ARE DOUBLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
H12.12 = DOUBLE H12.12 (12X2.5X12GA CEE HEADER) FOR 15' SPANS (COLUMNS SUPPORTING HEADER ARE TRIPLE C4.12 4X2.5"X12GA CEE EACH END OF HEADER)
SG1.16 (1"X16GA SUBGIRT AT 5' O.C. MAX.)

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
MIDDLE FLOOR (MULTI)
BASE TRACK INSTALLATION
1/2"X2 3/4" WEDGE ANCHORS 32" O.C.
SPECIAL MASONRY TRACK ATTACHMENT 12GA. GALV. (TO CMU)
3/4"X5 1/2" WEDGE ANCHORS
STEEL DECK SUPPORT ANGLE (TO CMU)
3/4"X5 1/2" WEDGE ANCHORS 24" O.C.



BLDG A2 "A2" 2ND FLOOR STUD & CHANNEL PLAN

1/8" = 1'

ENGINEERING SOLUTIONS
KNOWLEDGEABLE WITH EXCELLENT SERVICE

RAPID BUILDING SOLUTIONS
9000 WEST COLONIAL DR. SUITE 401
OCOEE, FL. 34761
PHONE: (407) 347-9614
INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

SEALS

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REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

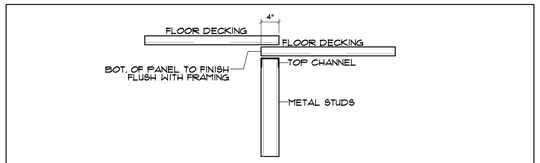
BLDG. "A" 2ND FLOOR STUD & CHANNEL PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.9

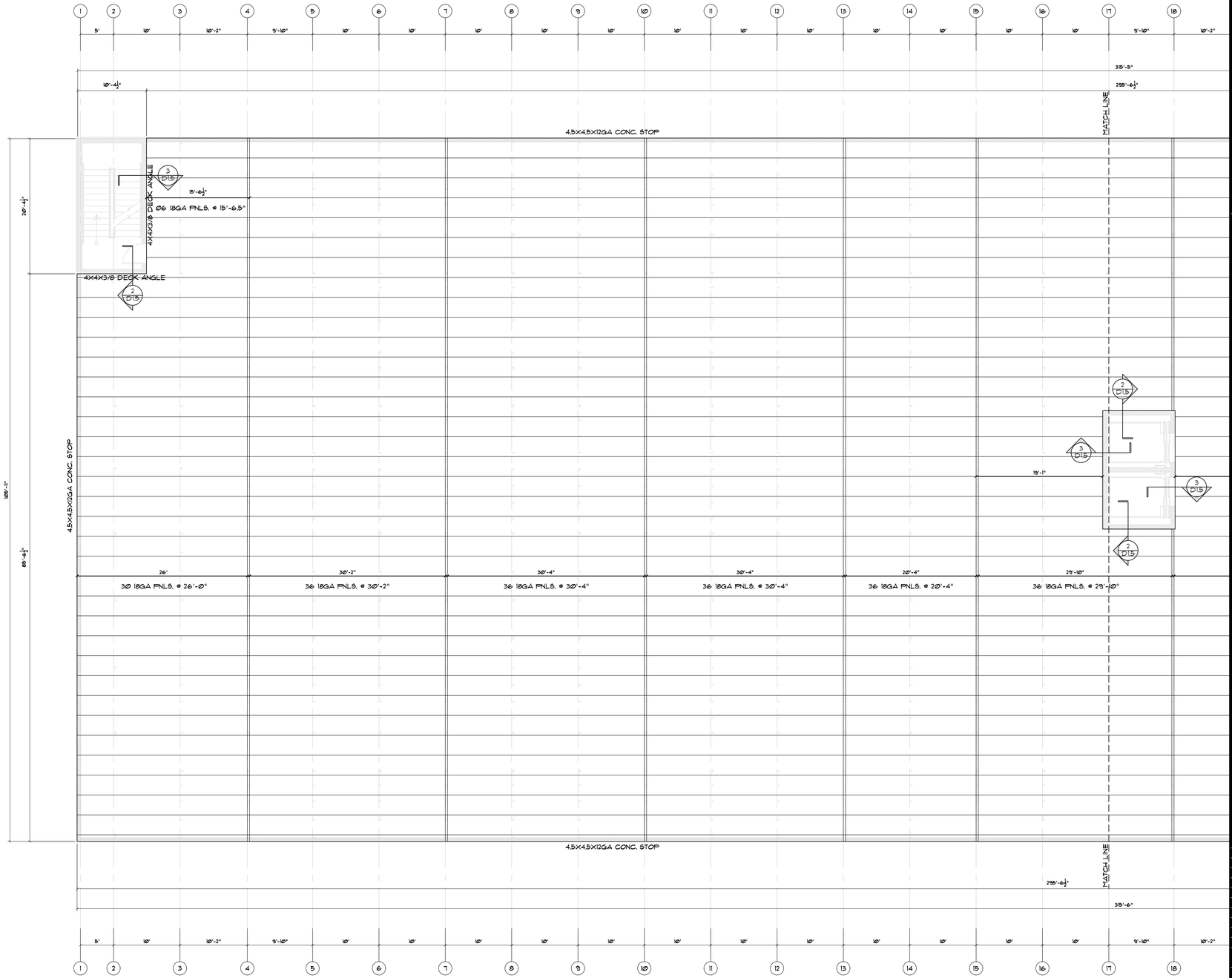
CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:27:05 -06'00'



NOTE TO THE GENERAL CONTRACTOR:
ALL LAP SEAMS AND EDGE CONDITIONS OF DECKING ARE TO BE SEALED PRIOR TO THE POURING OF CONCRETE AND IS NOT THE RESPONSIBILITY OF RAPID BUILDING SOLUTIONS (RBS). FAILURE TO SEAL THE SEAMS AND EDGE CONDITIONS WILL ALLOW LEAKAGE OF CONCRETE. ANY CLEANUP OR DAMAGES TO MATERIALS CAUSED WILL NOT BE THE RESPONSIBILITY OF RBS.

TYPICAL ELEVATED FLOOR CONSTRUCTION
4 1/2" (2 1/2" CLEAR) REGULAR WEIGHT CONCRETE 3000 PSI OVER VULCRAFT 2VL18 GALV COMPOSITE METAL DECK. REINFORCE SLAB W/ 6x6-W1.4xW1.4 FLAT SHEETS SUPPORTED ON BOLSTER CHAIRS. SET FLAT SHEETS 1 1/2" ABOVE DECK. FASTEN DECK TO SUPPORT STRUCTURE WITH #2 TEK SELF-DRILLING SCREWS AT EA FLUTE, 36/4 PATTERN WITH (4) SIDELAP FASTENERS.
ELEVATED FLOOR DECKS ARE DESIGNED FOR A 20 PSF CONSTRUCTION LIVE LOAD. RIDE ON TROWEL MACHINES SHOULD NOT BE USED UNLESS THE DECK IS SHORED.



BLDG A2 "A2" SECOND FLOOR DECKING PLAN
1/8" = 1'

ENGINEERING SOLUTIONS
KNOWLEDGEABLE WITH EXCELLENT SERVICE

SEALS

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2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

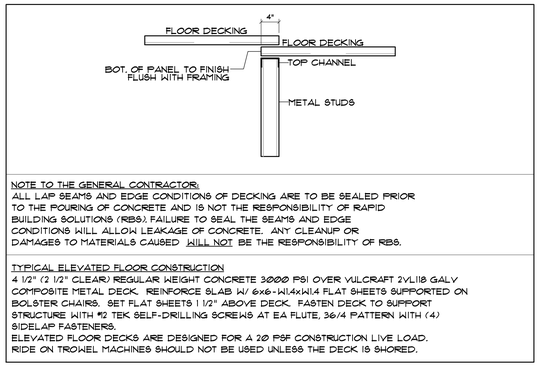
BLDG. "A"
2ND FLOOR DECKING PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.10

CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.09 17:28:54 -06'00'



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TYPICAL ELEVATED FLOOR CONSTRUCTION
4 1/2" (2 1/2" CLEAR) REGULAR WEIGHT CONCRETE 3000 PSI OVER VULCRAFT 2VL18 GALV COMPOSITE METAL DECK. REINFORCE SLAB W/ 6x6-W1.4xW1.4 FLAT SHEETS SUPPORTED ON BOLSTER CHAIRS. SET FLAT SHEETS 1 1/2" ABOVE DECK. FASTEN DECK TO SUPPORT STRUCTURE WITH #2 TEK SELF-DRILLING SCREWS AT EA FLUTE, 36/4 PATTERN WITH (4) SIDELAP FASTENERS.
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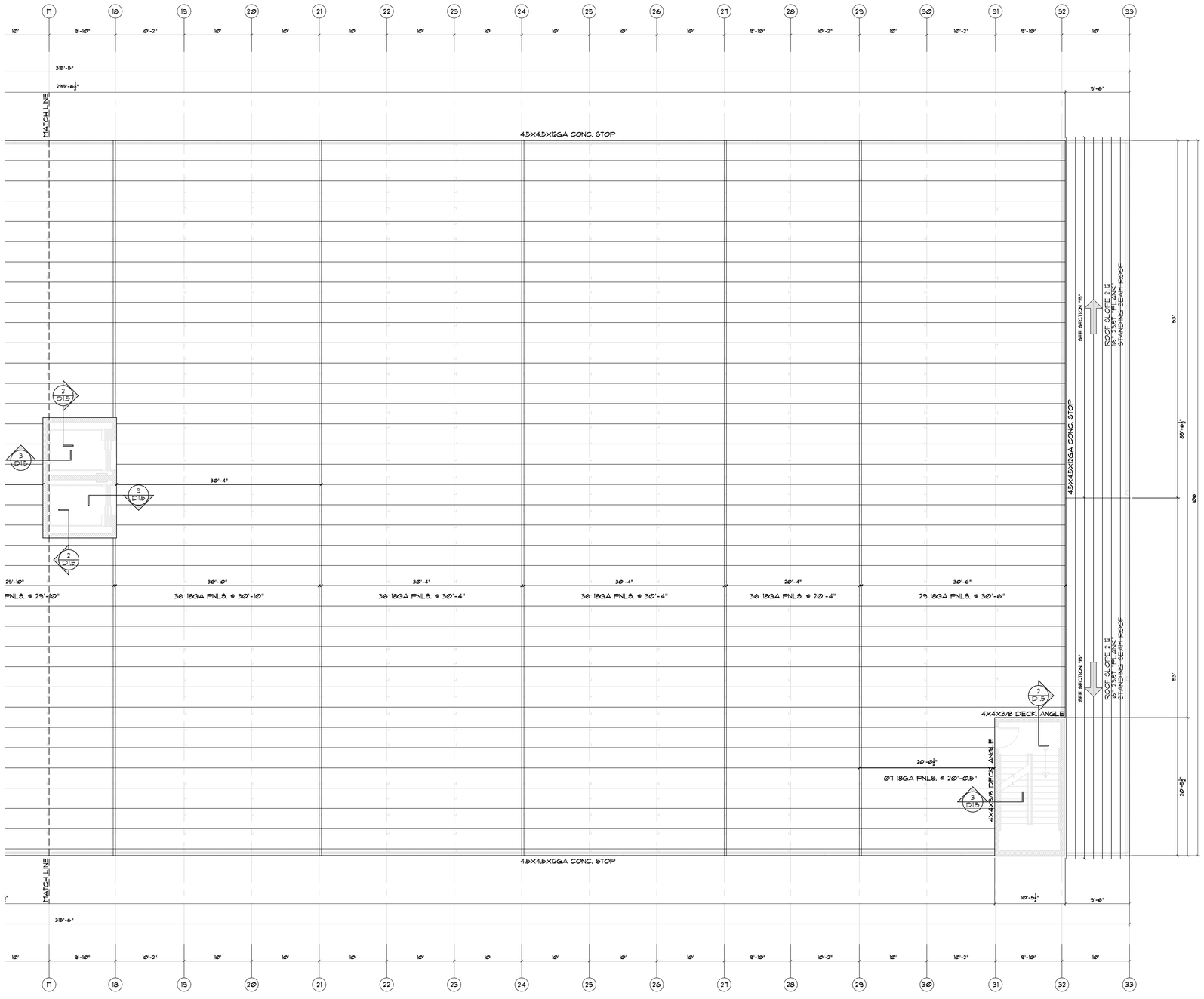

BLDG A2 "A2" SECOND FLOOR DECKING PLAN
1/8" = 1'

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ENGINEERING SOLUTIONS
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SHEET TITLE

BLDG. "A"
2ND FLOOR DECKING PLAN

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DESIGNED BY	RBS
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DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.11

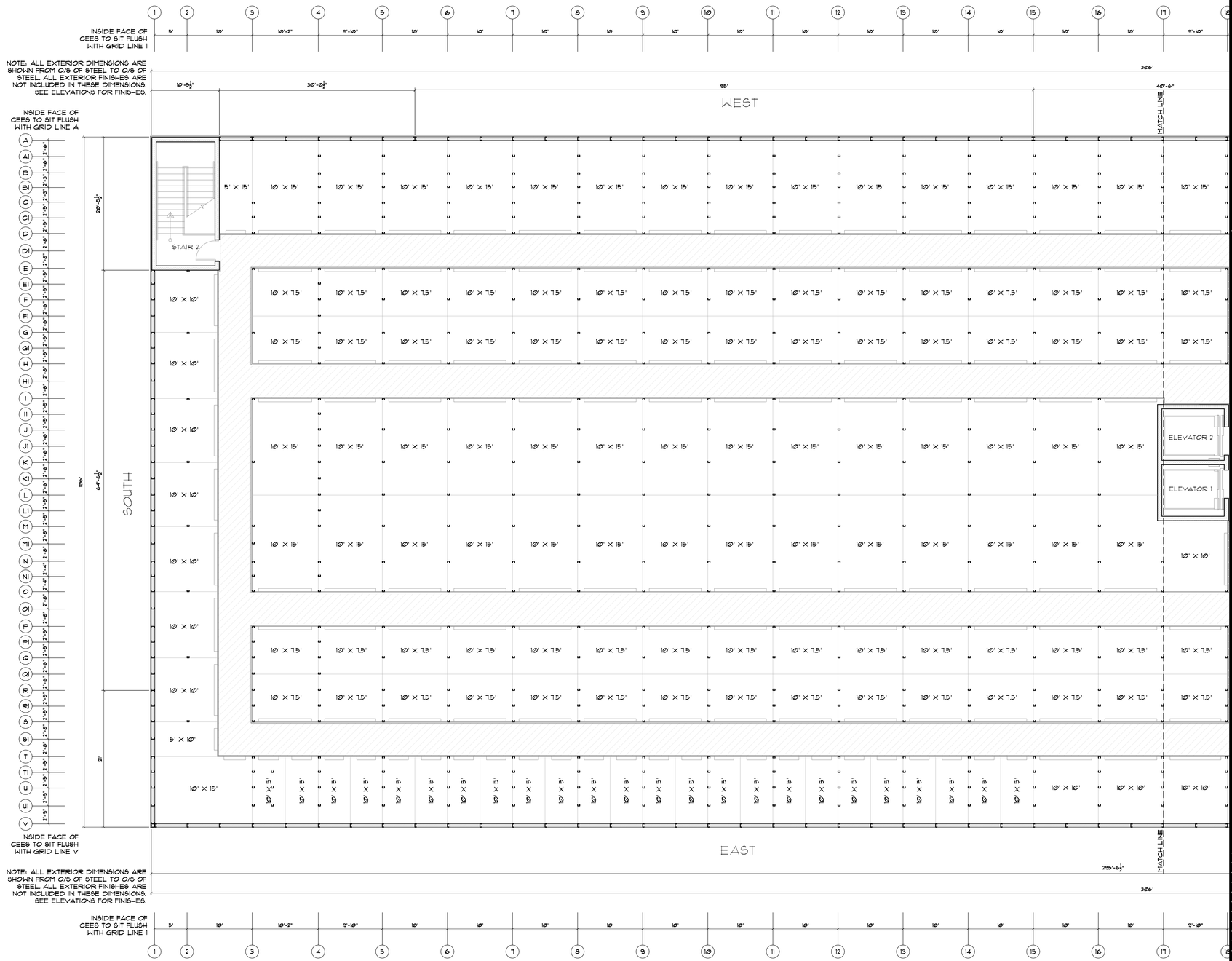
CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 10:10:25 -06'00'

LINE KEY	
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 24GA RRPBU HORIZONTAL PANEL EXTERIOR
	RRPBU, 24GA HORIZONTAL PERIMETER WALL PANEL
	HEADER BEAMS NEED MORE THAN 5' BAY
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	HALL WAY SYSTEM
	COLUMNS
	TWO HOUR RATED CMU WALL @ STAIR UL # U905
	TWO HOUR RATED CMU WALL @ ELEVATOR UL # U905
	ZEE BEAMS

TOP FLOOR PLAN NOTES (3 STORY)
T/THIRD FLOOR SLAB = 21'-4"
TYPICAL ELEVATED FLOOR CONSTRUCTION BETWEEN 2ND AND 3RD FLOORS SHALL BE 4 1/2". (2 1/2" CLEAR) REGULAR WEIGHT CONCRETE 3000# PSI OVER VULCRAFT 2VLI18 GALVANIZED COMPOSITE METAL DECK. REINFORCE SLAB WITH 6X6-W1.4XW1.4 FLAT SHEETS SUPPORTED ON BOLSTER CHAIRS. SET FLAT SHEETS 1 1/2" ABOVE DECK. FASTEN DECK TO SUPPORT STRUCTURE WITH #12 TEK SELF-DRILLING SCREWS AT EA. FLUTE, 36/4 PATTERN WITH (4) SIDELAP FASTNERS. ELEVATED FLOOR DECKS ARE DESIGNED FOR A 20 PSF CONSTRUCTION LIVE LOAD. RIDE ON TROWEL MACHINES SHOULD NOT BE USED UNLESS THE DECK IS SHORED
TYPICAL INTERIOR SUPPORTING COLUMN SHALL BE C4.14 (4X2.5X14GA CEE) TYPICAL EXTERIOR SUPPORTING COLUMN SHALL BE C6.16 (6X2.5X16GA CEE)
TYPICAL PURLIN SHALL BE Z4.14 (4X2 1/8"X2 3/8"X14GA ZEE)
H6.16 = SINGLE H6.16 (6X2.5X16GA CEE HEADER) FOR 10' SPANS (COLUMNS SUPPORTING HEADERS ARE SINGLE C4.16 4X2.5"X16GA CEE EACH END OF HEADER)
H8.14 = SINGLE H8.14 (8X2.5X14GA CEE HEADER) FOR 15' SPANS (COLUMNS SUPPORTING HEADERS ARE SINGLE C4.14 4X2.5"X14GA CEE EACH END OF HEADER)
PARTITION PANEL SHALL BE 29GA HORIZONTAL PARTITION PANEL W/ #10 TEK SCREW SIDELAP FASTENERS @ 20" O.C. MAX.
ROOF PLAN NOTES:
16" @ 18" 24GA 238T PLANK - SITE ROLLED SEAMED ROOF

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
TOP FLOOR (MULTI)
BASE CLIP INSTALLATION
1/2"X2 3/4" WEDGE ANCHORS
BASE TRACK INSTALLATION
1/2"X2 3/4" WEDGE ANCHORS 30" O.C.
12GA. GALV. ANGLE INSTALLATION (TO CMU)
1/2"X3 3/4" WEDGE ANCHORS
LINTEL AND EAVE STRUT INSTALLATION (TO CMU)
1/4X1 1/4 TAPCONS 12" O.C.



BLDG A3 "A3" 3RD FLOOR PARTITION & UNIT PLAN

1/8" = 1'

ALL CONTENTS SHOWN WITHIN THESE PLANS, MAY NOT BE INCLUDED. SEE RAPID'S PROPOSAL/CONTRACT FOR ACTUAL INCLUDED ITEMS.

ENGINEERING SOLUTIONS

SEALS

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY CHARLES A. WITT, PE FLORIDA REG# 83199 ON THE DATE AND TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORITY ON ANY ELECTRONIC COPY.

RAPID BUILDING SOLUTIONS

9000 WEST COLONIAL DR. SUITE 401
OCOEE, FL, 34761
PHONE: (407) 347-9614
INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
3RD FLOOR PARTITION & UNIT PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.12

CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 10:45:55 -06'00'

LINE KEY	
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 24GA RRPBU HORIZONTAL PANEL EXTERIOR
	RRPBU, 24GA HORIZONTAL PERIMETER WALL PANEL
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	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	HALL WAY SYSTEM
	COLUMNS
	TWO HOUR RATED CMU WALL @ STAIR UL # U905
	TWO HOUR RATED CMU WALL @ ELEVATOR UL # U905
	ZEE BEAMS

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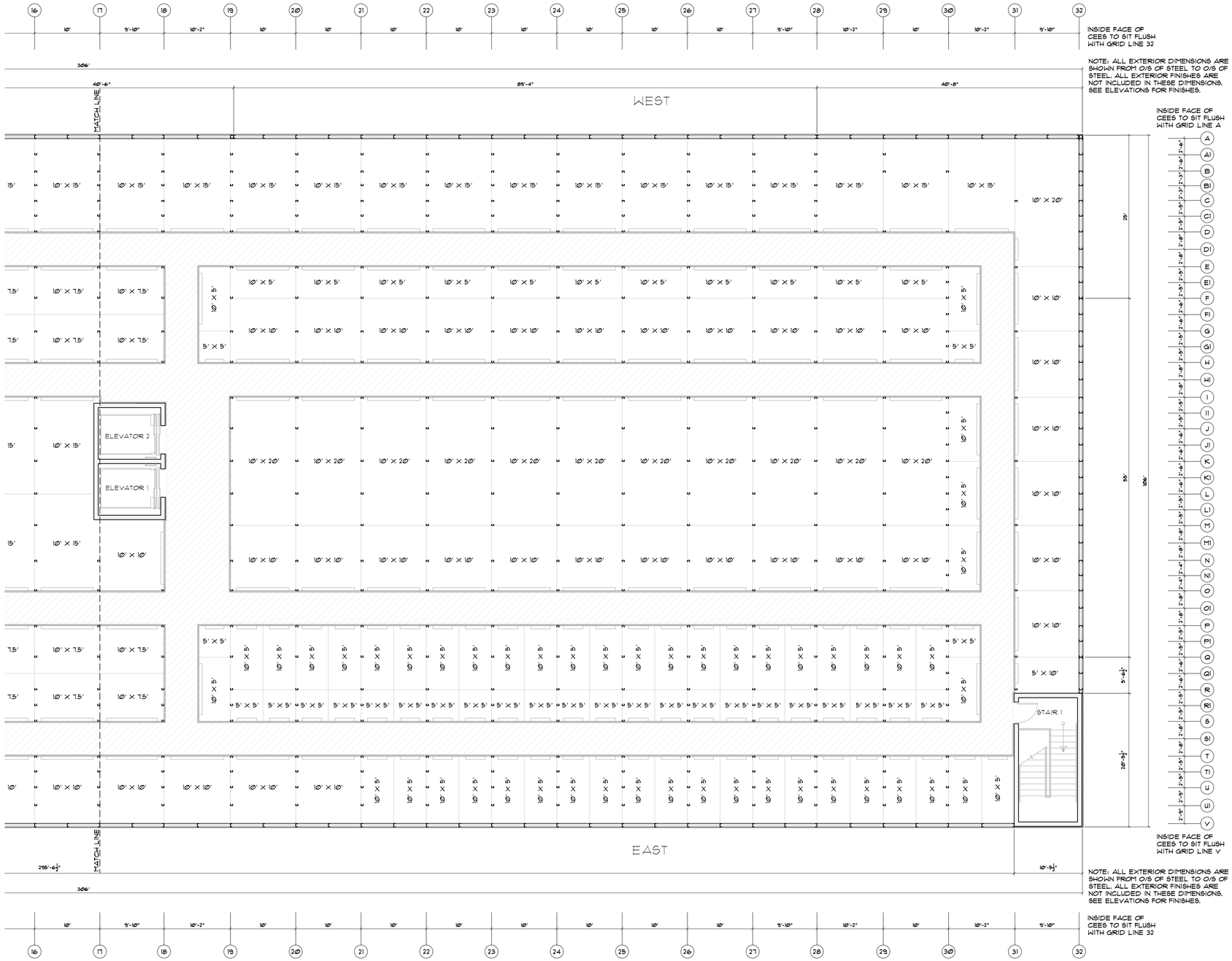

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1/8" = 1'

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REV.	DATE	DESCRIPTION	BY
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2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
3RD FLOOR PARTITION & UNIT PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.13

CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:14:56 -06'00'

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	HALL WAY SYSTEM
	COLUMNS
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	ZEE BEAMS

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ROOF PLAN NOTES:
16" & 18" 24GA 238T PLANK - SITE ROLLED SEAMED ROOF

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
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BASE CLIP INSTALLATION
1/2"X2 3/4" WEDGE ANCHORS
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1/2"X2 3/4" WEDGE ANCHORS 30" O.C.
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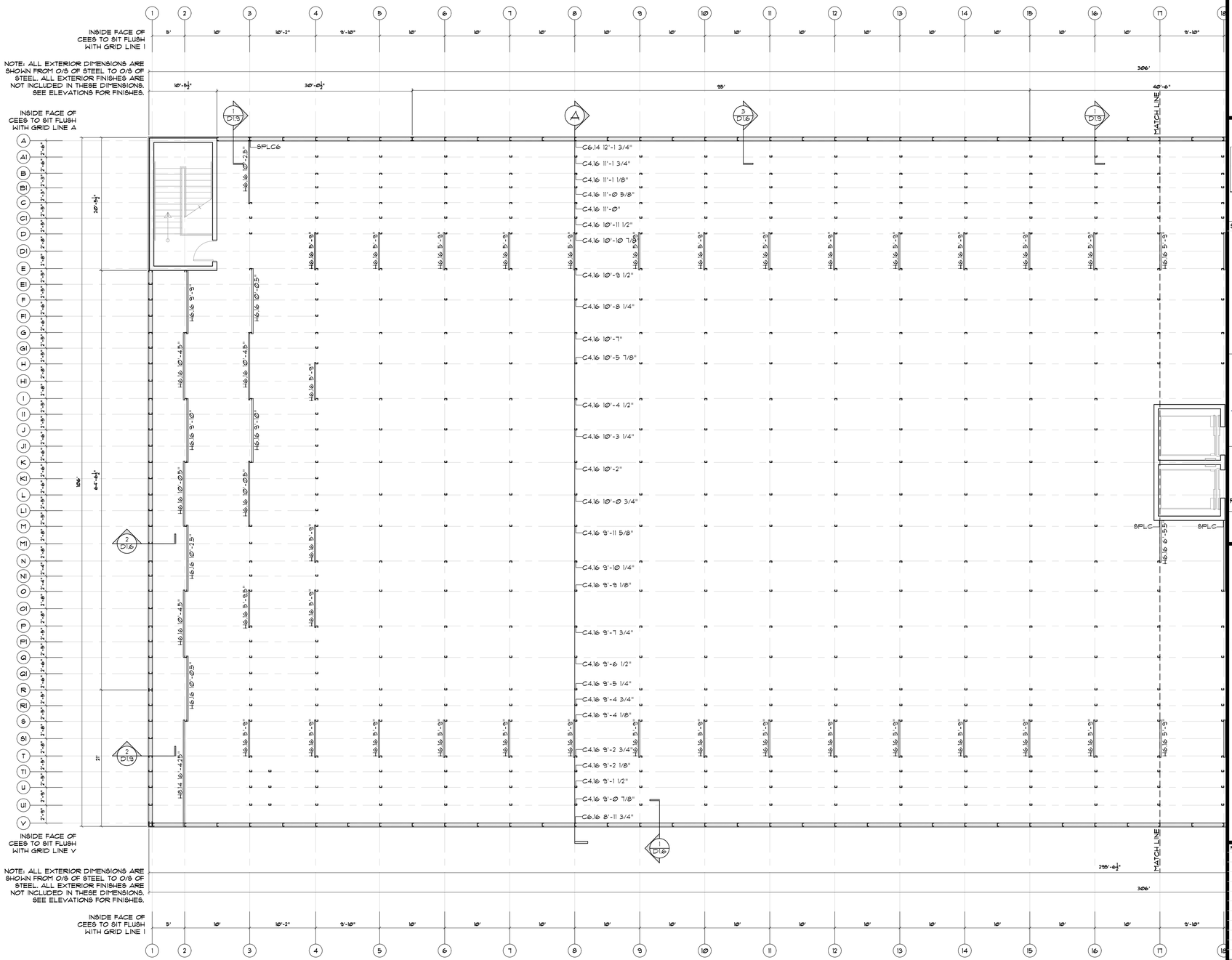

BLDG A3 "A3" 3RD FLOOR STUD & CHANNEL PLAN

1/8" = 1'

ENGINEERING SOLUTIONS

SEALS

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JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

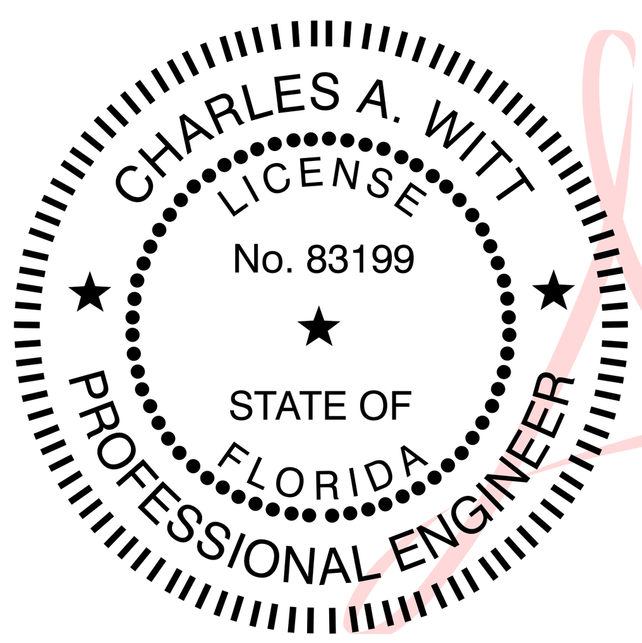
REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
3RD FLOOR STUD & CHANNEL PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.14



Digitally signed by Charles A Witt
Date: 2024.12.10 11:16:49 -06'00'

LINE KEY	
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 24GA RRPBU HORIZONTAL PANEL EXTERIOR
	RRPBU, 24GA HORIZONTAL PERIMETER WALL PANEL
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	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
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	COLUMNS
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ROOF PLAN NOTES:
16" & 18" 24GA 238T PLANK - SITE ROLLED SEAMED ROOF

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
TOP FLOOR (MULTI)
BASE CLIP INSTALLATION 1/2"X2 3/4" WEDGE ANCHORS
BASE TRACK INSTALLATION 1/2"X2 3/4" WEDGE ANCHORS 30" O.C.
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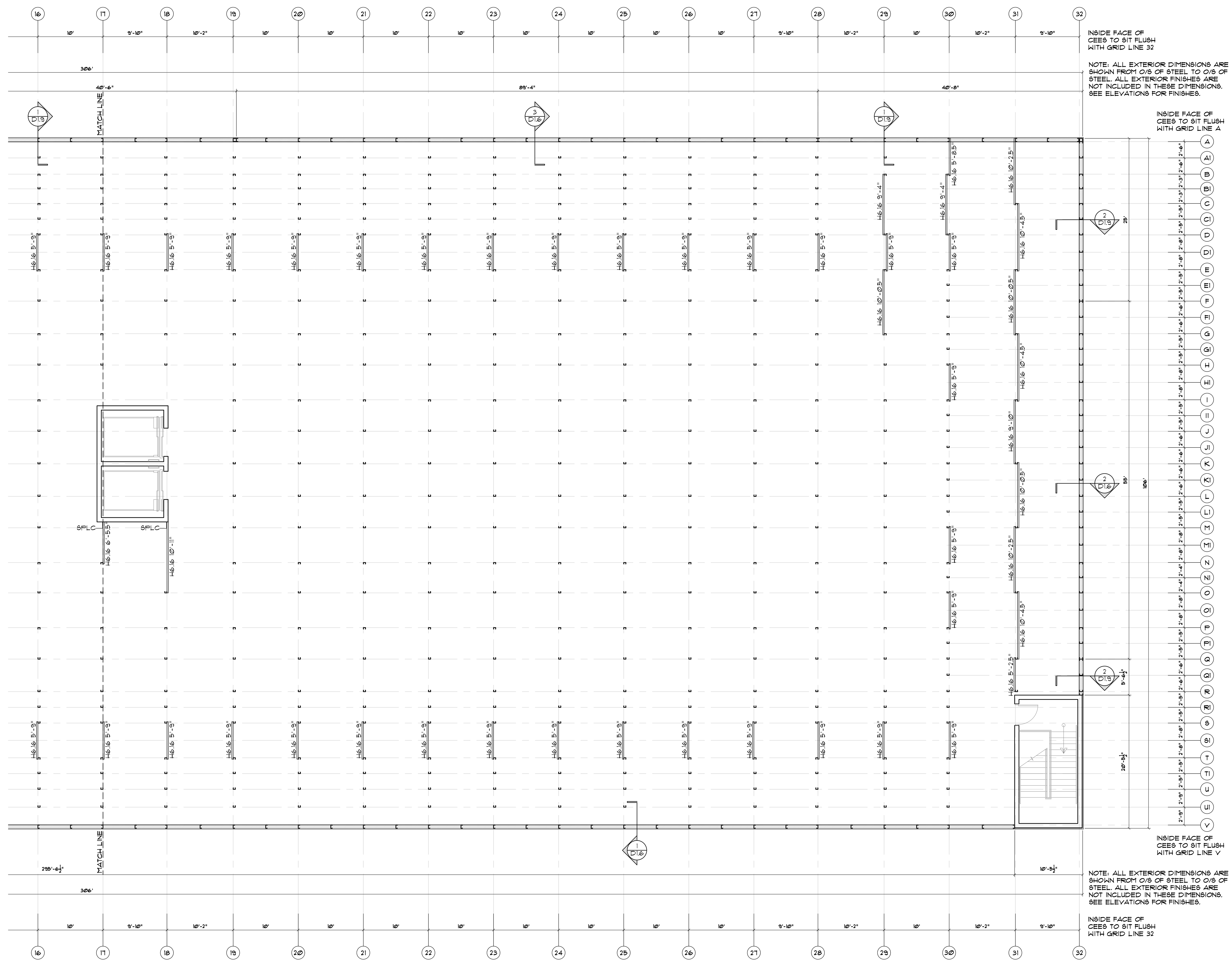

BLDG A3 "A3" 3RD FLOOR STUD & CHANNEL PLAN
1/8" = 1'

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K&W ENGINEERING SOLUTIONS
KNOWLEDGEABLE WITH EXCELLENT SERVICE

SEALS

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MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
3RD FLOOR STUD & CHANNEL PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.15

CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:18:04 -06'00'

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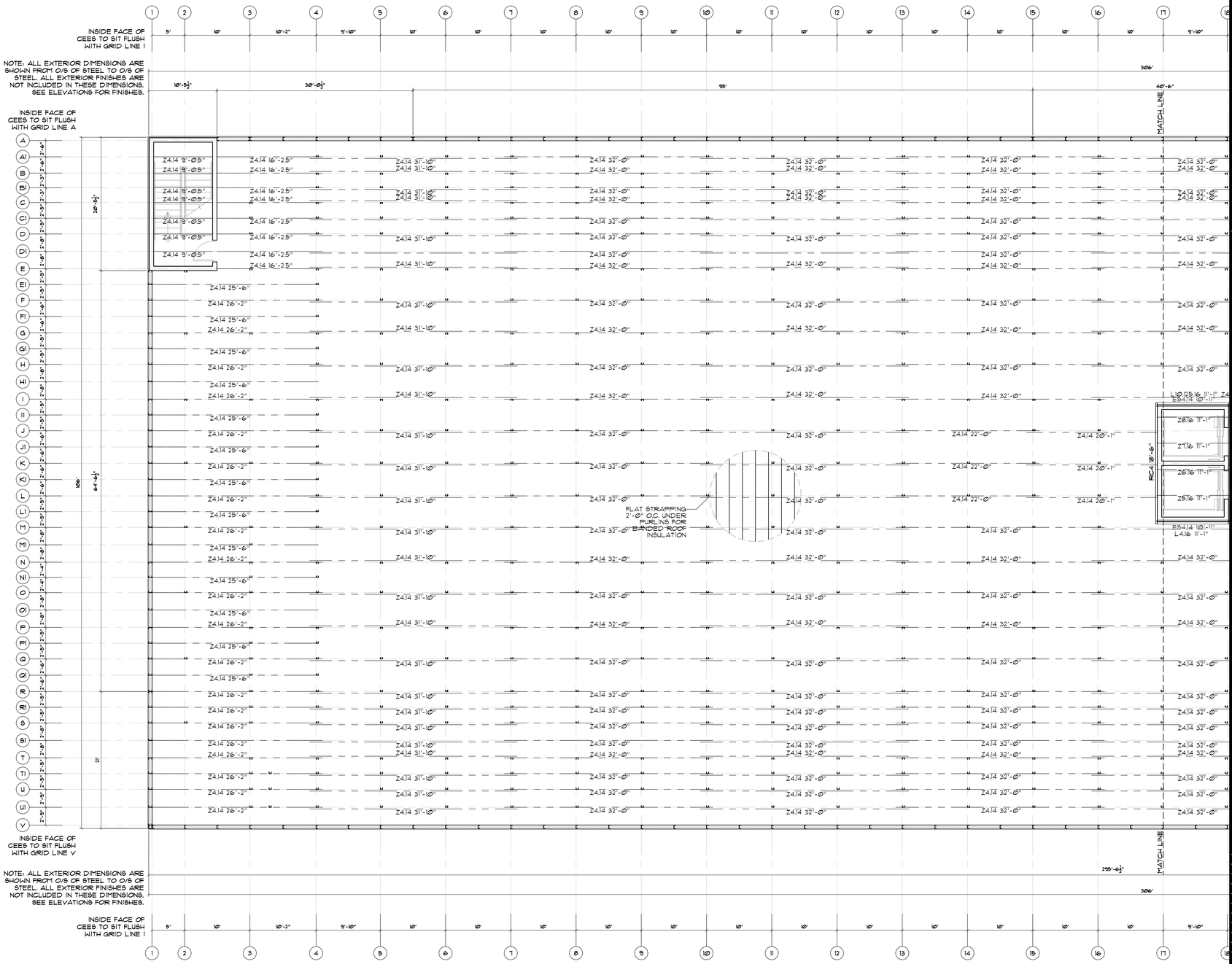

BLDG A3 "A3" 3RD FLOOR ROOF FRAMING PLAN

1/8" = 1'

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KNOWLEDGEABLE WITH EXCELLENT SERVICE

SEALS

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3RD FLOOR ROOF FRAMING PLAN

DATE	06-17-24
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CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.16

CHARLES A. WITT
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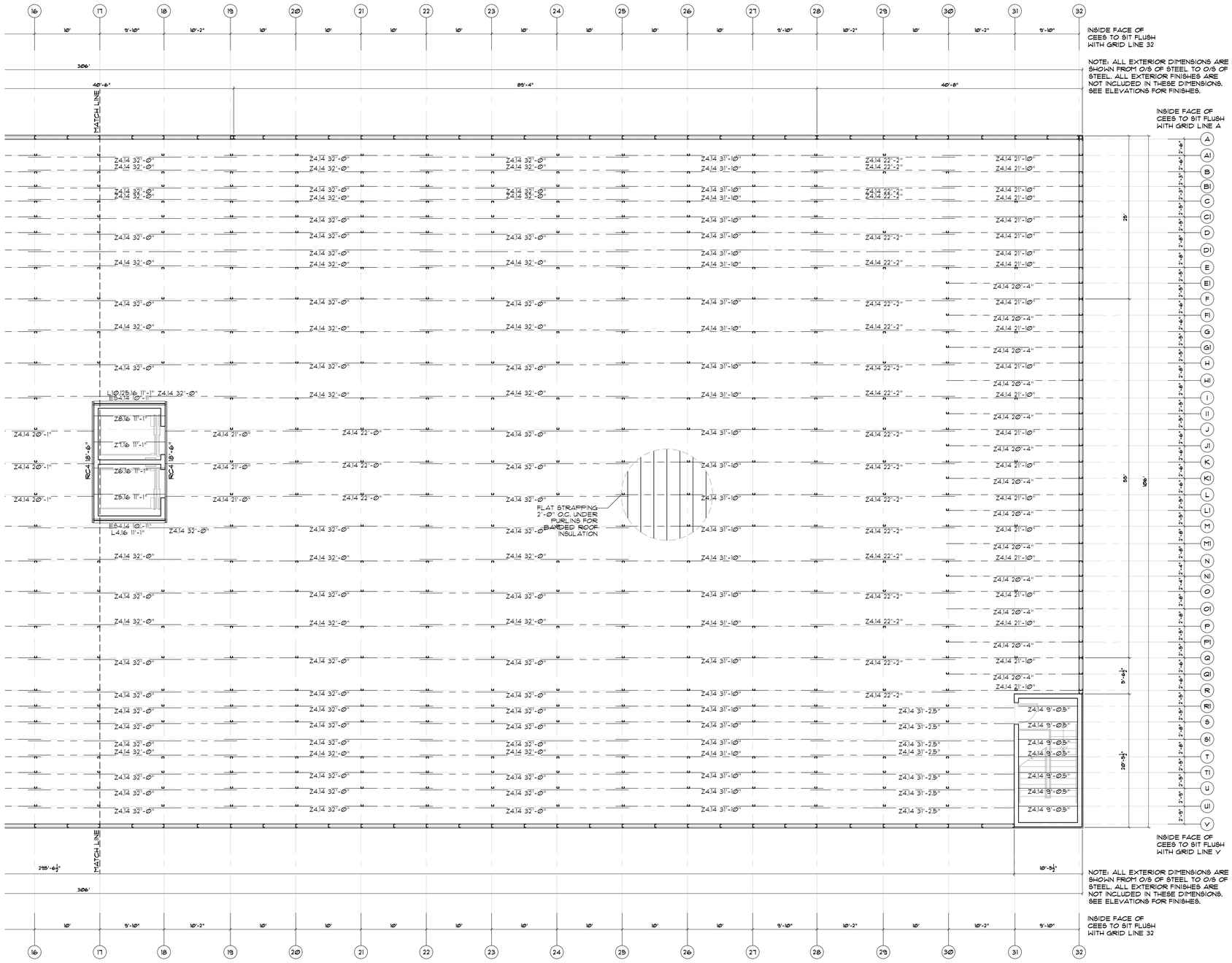
TYPICAL ELEVATED FLOOR CONSTRUCTION BETWEEN 2ND AND 3RD FLOORS SHALL BE 4 1/2", (2 1/2" CLEAR) REGULAR WEIGHT CONCRETE 3000 PSI OVER VULCRAFT 2VLI1B GALVANIZED COMPOSITE METAL DECK. REINFORCE SLAB WITH 6X6-W1.4XW1.4 FLAT SHEETS SUPPORTED ON BOLSTER CHAIRS. SET FLAT SHEETS 1 1/2" ABOVE DECK. FASTEN DECK TO SUPPORT STRUCTURE WITH #12 TEK SELF-DRILLING SCREWS AT EA. FLUTE, 36/4 PATTERN WITH (4) SIDELAP FASTNERS. ELEVATED FLOOR DECKS ARE DESIGNED FOR A 20 PSF CONSTRUCTION LIVE LOAD. RIDE ON TROWEL MACHINES SHOULD NOT BE USED UNLESS THE DECK IS SHORED
TYPICAL INTERIOR SUPPORTING COLUMN SHALL BE C4.14 (4X2.5X14GA CEE) TYPICAL EXTERIOR SUPPORTING COLUMN SHALL BE C6.16 (6X2.5X16GA CEE)
TYPICAL PURLIN SHALL BE Z4.14 (4X2 1/8"X2 3/8"X14GA ZEE)
H6.16 = SINGLE H6.16 (6X2.5X16GA CEE HEADER) FOR 10' SPANS (COLUMNS SUPPORTING HEADERS ARE SINGLE C4.16 4X2.5"X16GA CEE EACH END OF HEADER)
H8.14 = SINGLE H8.14 (8X2.5X14GA CEE HEADER) FOR 15' SPANS (COLUMNS SUPPORTING HEADERS ARE SINGLE C4.14 4X2.5"X14GA CEE EACH END OF HEADER)
PARTITION PANEL SHALL BE 29GA HORIZONTAL PARTITION PANEL W/ #10 TEK SCREW SIDELAP FASTENERS @ 20" O.C. MAX.
ROOF PLAN NOTES:
16" & 18" 24GA 238T PLANK - SITE ROLLED SEAMED ROOF

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
TOP FLOOR (MULTI)
BASE CLIP INSTALLATION 1/2"X2 3/4" WEDGE ANCHORS
BASE TRACK INSTALLATION 1/2"X2 3/4" WEDGE ANCHORS 30" O.C.
12GA GALV. ANGLE INSTALLATION (TO CMU) 1/2"X3 3/4" WEDGE ANCHORS
LINTEL AND EAVE STRUT INSTALLATION (TO CMU) 1/4X1 1/4 TAPCONS 12" O.C.



BLDG A3 "A3" 3RD FLOOR ROOF FRAMING PLAN

1/8" = 1'

ENGINEERING SOLUTIONS

SEALS

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY CHARLES A. WITT, PE FLORIDA REG# 83199 ON THE DATE AND TIME STAMP SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED BY A 3RD PARTY CERTIFICATE AUTHORITY ON ANY ELECTRONIC COPY.

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OCOEE, FL. 34761
PHONE: (407) 347-8614
INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

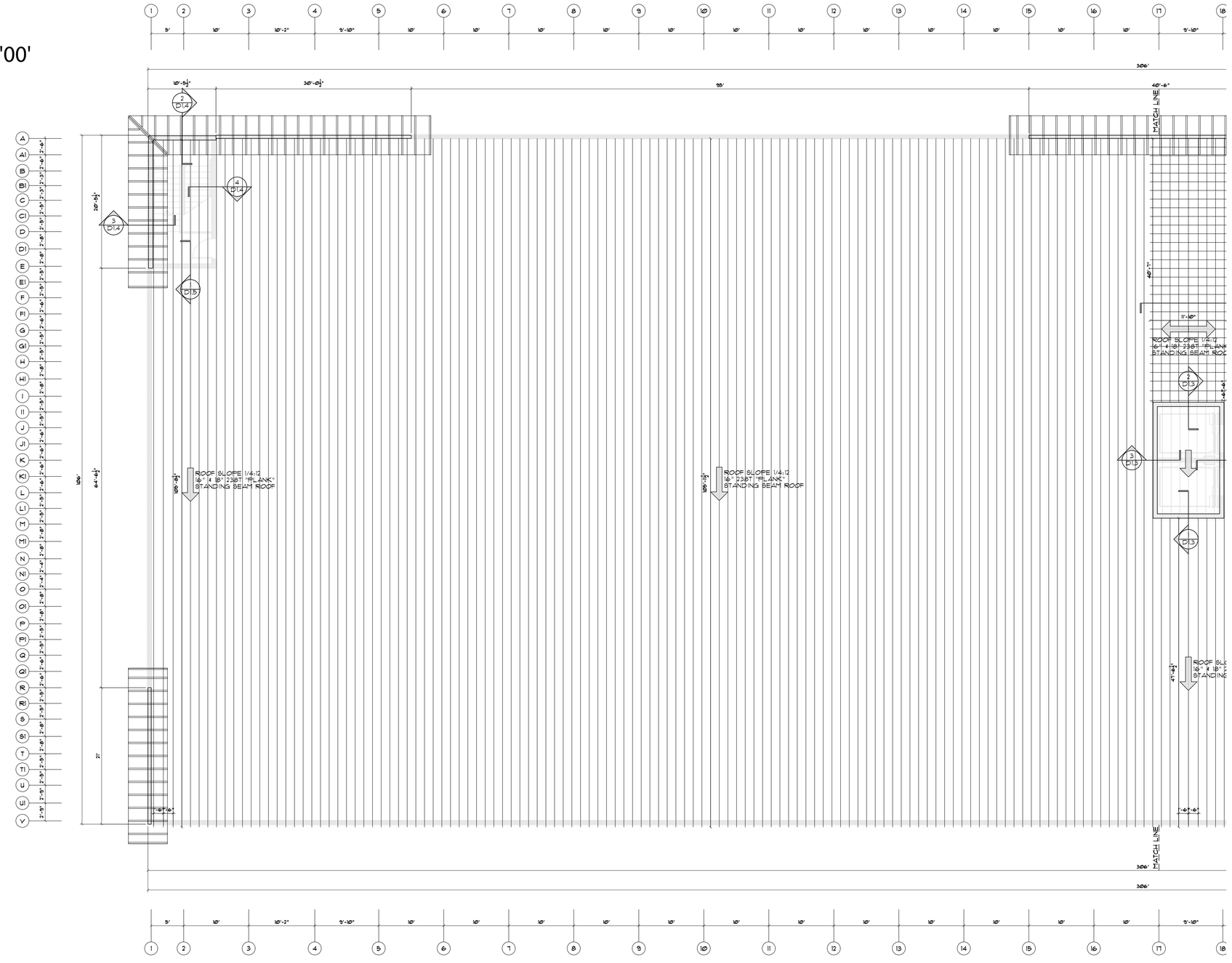
BLDG. "A"
3RD FLOOR ROOF FRAMING PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.17

CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:20:41 -06'00'



BLDG A3 "A3" 3RD FLOOR ROOF SHEETING PLAN

1/8" = 1'

ALL CONTENTS SHOWN WITHIN THESE PLANS, MAY NOT BE INCLUDED. SEE RAPID'S PROPOSAL/CONTRACT FOR ACTUAL INCLUDED ITEMS.

ENGINEERING SOLUTIONS

SEALS

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1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

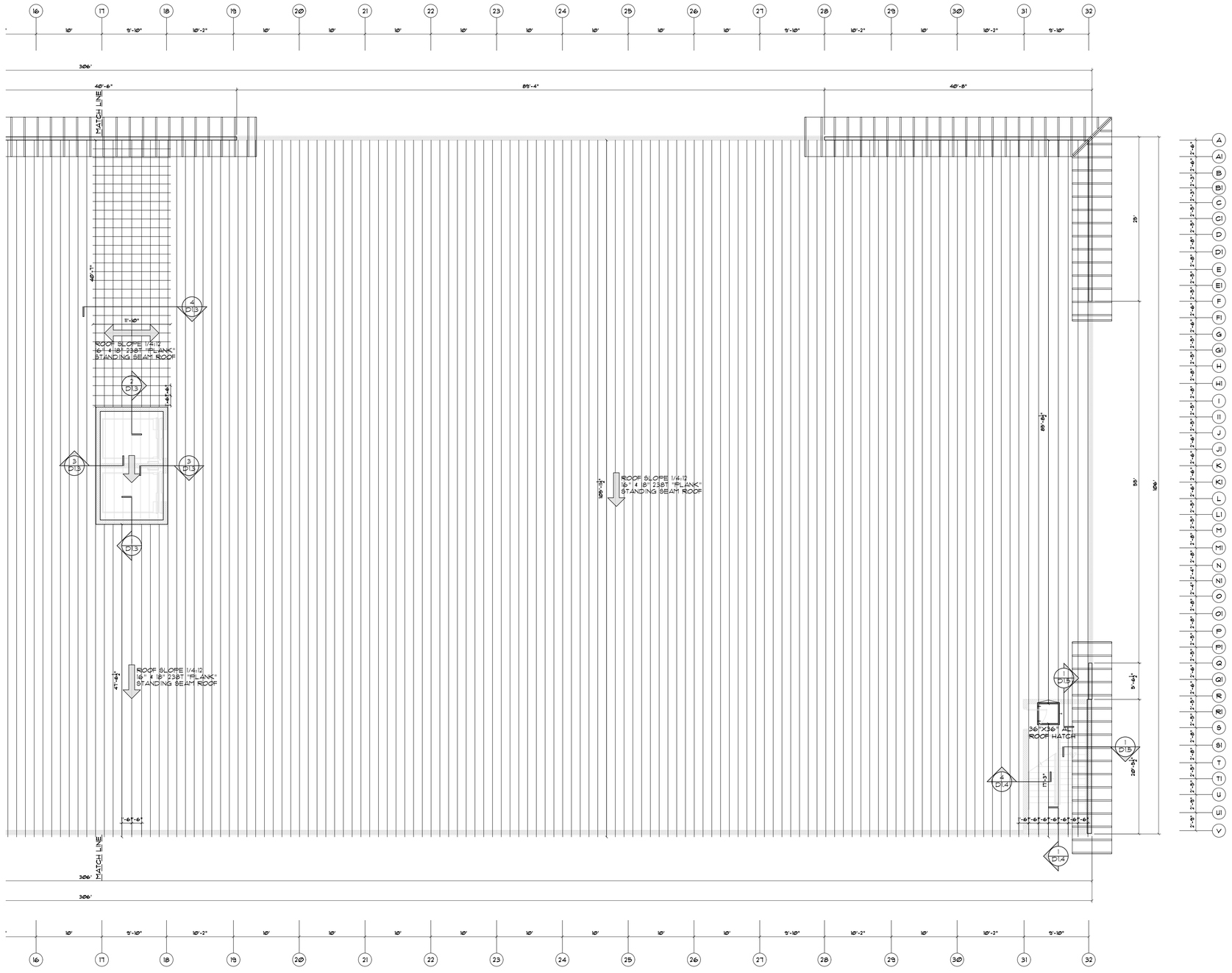
BLDG. "A"
3RD FLOOR ROOF SHEETING PLAN

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.18

CHARLES A. WITT
LICENSE
No. 83199
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Digitally signed
by Charles A Witt
Date: 2024.12.10
11:22:08 -06'00'



BLDG A3 "A3" 3RD FLOOR ROOF SHEETING PLAN

1/8" = 1'

ALL CONTENTS SHOWN WITHIN THESE PLANS, MAY NOT BE INCLUDED. SEE RAPID'S PROPOSAL/CONTRACT FOR ACTUAL INCLUDED ITEMS.

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MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
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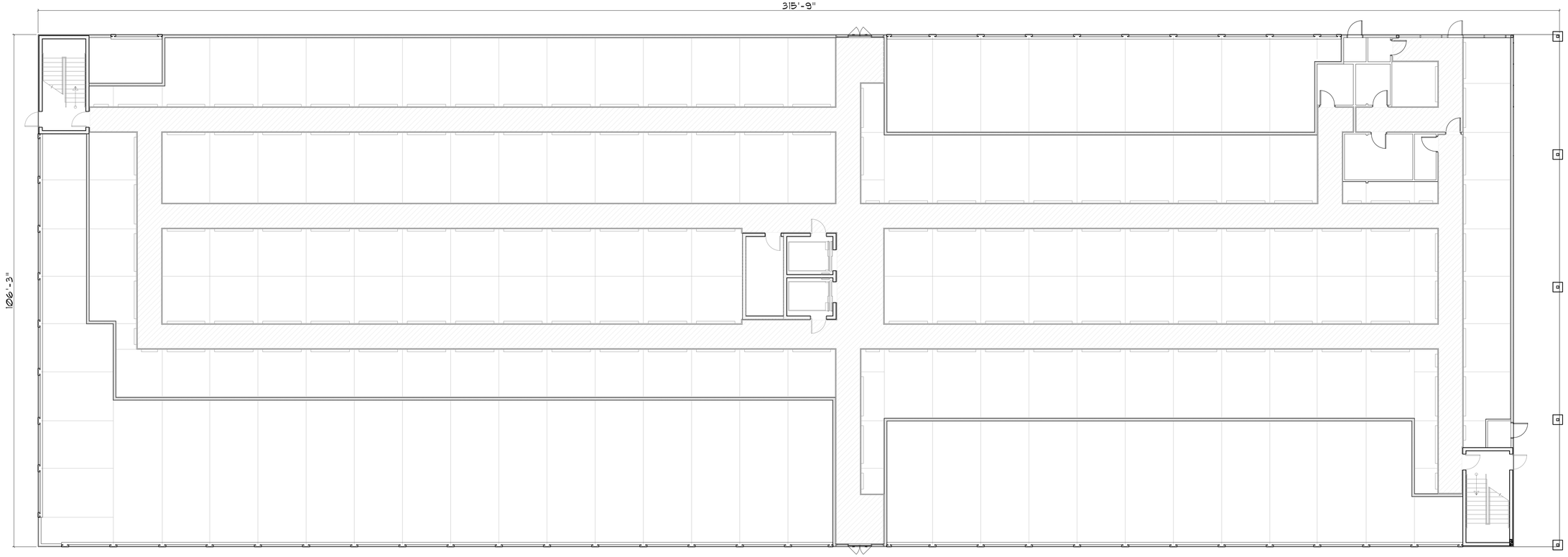
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
3RD FLOOR
ROOF SHEETING
PLAN

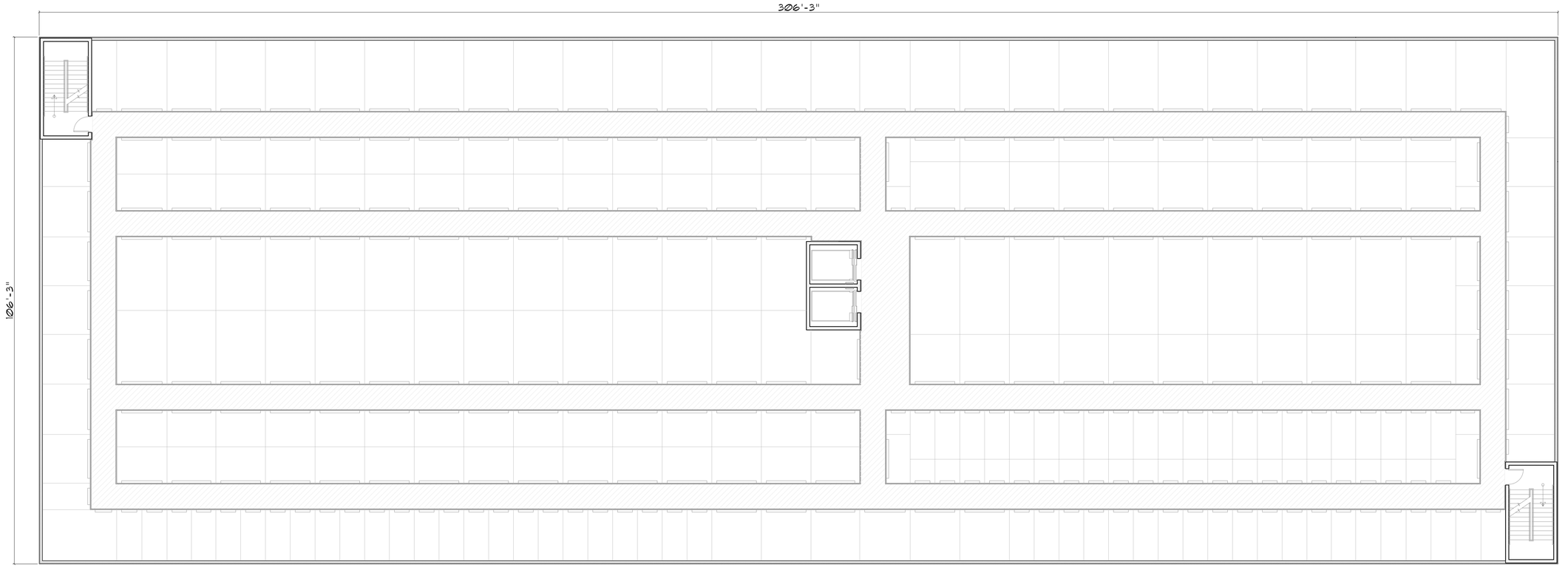
DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-S1.19



BLDG A1 "A1" 1ST FLOOR SITE PLAN

3/32" = 1'



BLDG A2 "A2" 2ND FLOOR SITE PLAN

3/32" = 1'

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Date: 2024.12.10 11:23:34 -06'00'

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583-24-MAL-FL

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1450 W RAILROAD AVE.
MALABAR, FL 32950

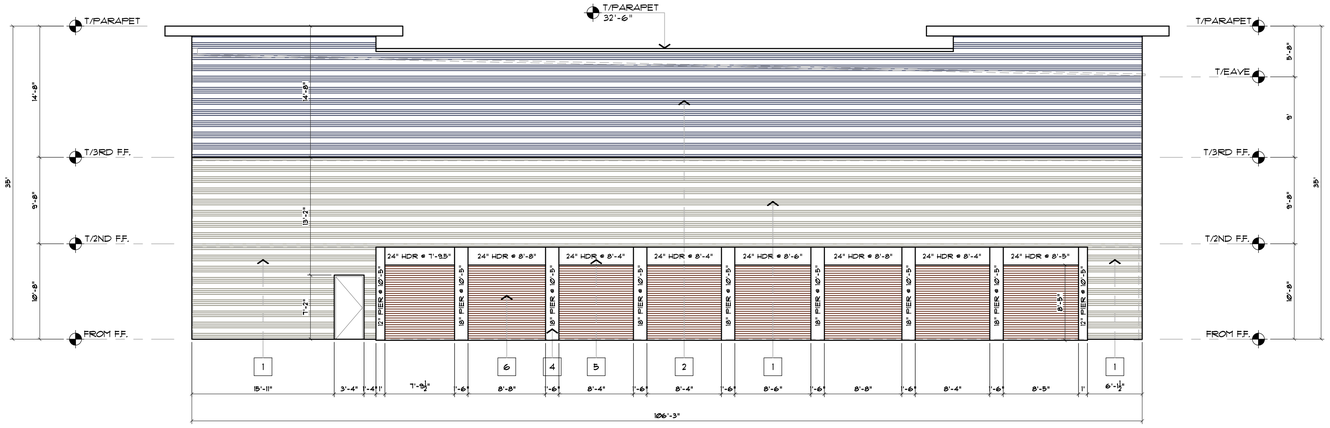
REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

SITE LAYOUT

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

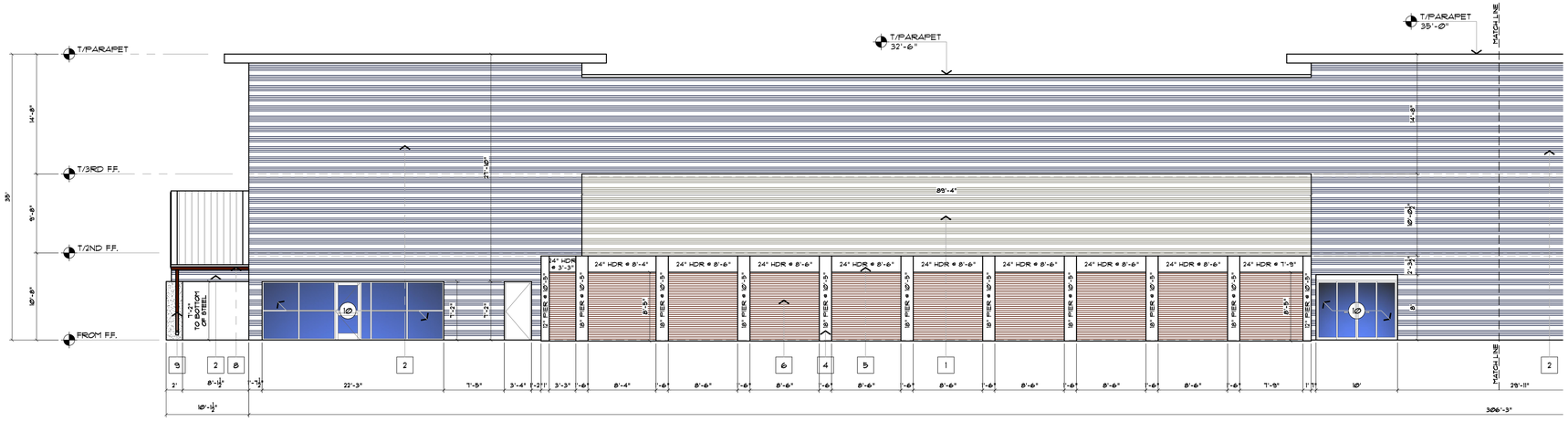
RBS-SL1.0



BLDG "A" "A" SOUTH ELEVATION

1/8" = 1'

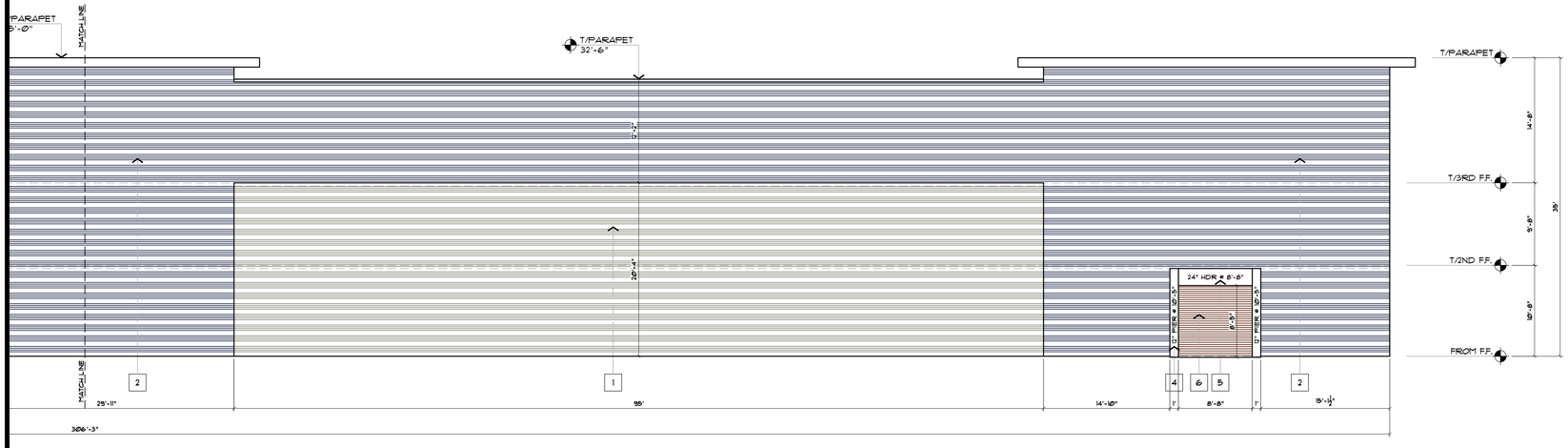
NOTE: ALL EXTERIOR DIMENSIONS THAT ARE SHOWN ON THE ELEVATIONS ARE PULLED FROM OUTSIDE TO OUTSIDE OF THE FOUNDATION SLAB. ANY OTHER EXTERIOR MATERIAL DIMENSION MAY VARY DEPENDING ON FINISH.



BLDG "A" "A" WEST ELEVATION

1/8" = 1'

NOTE: ALL EXTERIOR DIMENSIONS THAT ARE SHOWN ON THE ELEVATIONS ARE PULLED FROM OUTSIDE TO OUTSIDE OF THE FOUNDATION SLAB. ANY OTHER EXTERIOR MATERIAL DIMENSION MAY VARY DEPENDING ON FINISH.



BLDG "A" "A" WEST ELEVATION

1/8" = 1'

NOTE: ALL EXTERIOR DIMENSIONS THAT ARE SHOWN ON THE ELEVATIONS ARE PULLED FROM OUTSIDE TO OUTSIDE OF THE FOUNDATION SLAB. ANY OTHER EXTERIOR MATERIAL DIMENSION MAY VARY DEPENDING ON FINISH.

EXTERIOR FINISH SCHEDULE

CALLOUT	HATCH	MATERIAL	DESCRIPTION	COLOR
1		METAL PANEL	APEC, 24GA REVERSE ROLL PBU PANEL HORIZONTAL (3/4"X36" COVERAGE)	ASH GREY
2		METAL PANEL	APEC, 24GA REVERSE ROLL PBU PANEL HORIZONTAL (3/4"X36" COVERAGE)	GALLERY BLUE
3		METAL PANEL	APEC, 24GA REVERSE ROLL PBU PANEL VERTICAL (3/4"X36" COVERAGE)	ASH GREY
4		METAL PIER	STRUCTURAL PIER (TEX COAT FIELD APPLIED) (COLOR T.B.D.)	COLOR T.B.D.
5		METAL HEADER	STRUCTURAL HEADER (TEX COAT FIELD APPLIED) (COLOR T.B.D.)	COLOR T.B.D.
6		METAL DOOR	ROLL-UP DOOR (BY OTHERS)	CRIMSON RED
7		CONCRETE BLOCK	CMU BLOCK (BY OTHERS)	COLOR T.B.D.
8		METAL TRIM	APEC, 24GA OVERSIZED GUTTERS	COLOR T.B.D.
9		METAL TRIM	APEC, 24GA OVERSIZED DOWNSPOUTS	COLOR T.B.D.
10		GLASS	GLASS STORE FRONT (BY OTHERS)	N/A
11		GLASS	FAUX GLASS STORE FRONT (BY OTHERS)	N/A

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:24:53 -06'00'

K&W ENGINEERING SOLUTIONS
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INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

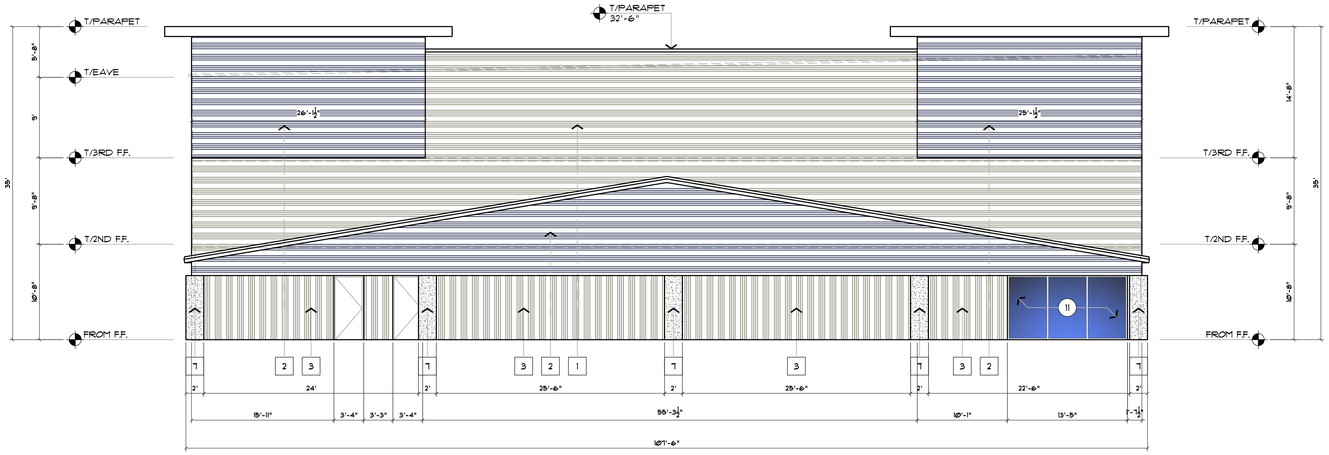
REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A" ELEVATIONS

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

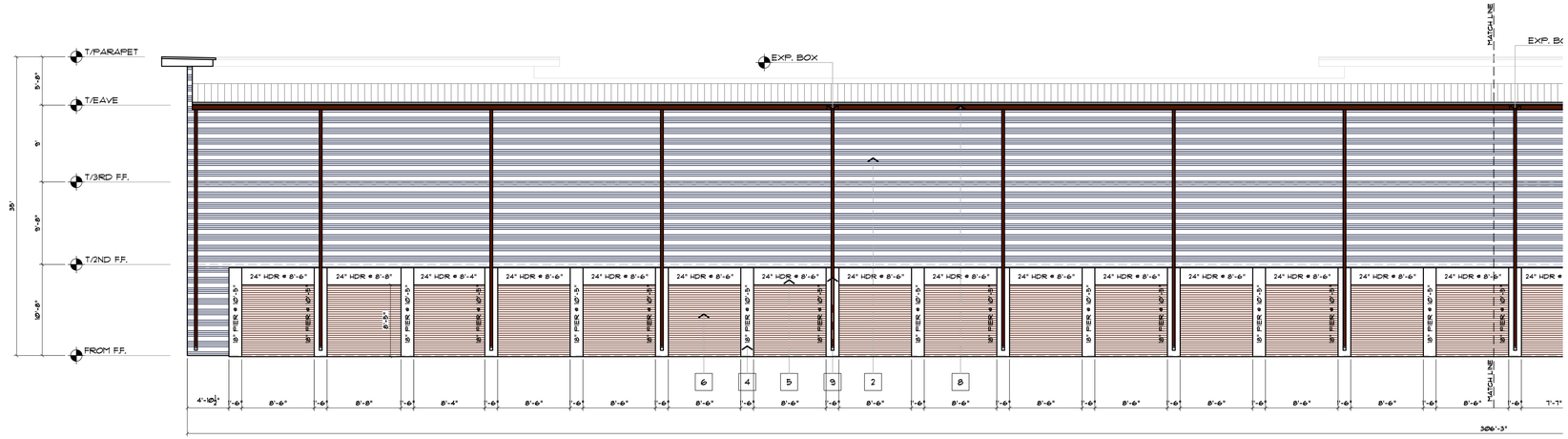
RBS-E1.0



BLDG "A" "A" NORTH ELEVATION

NOTE: ALL EXTERIOR DIMENSIONS THAT ARE SHOWN ON THE ELEVATIONS ARE PULLED FROM OUTSIDE TO OUTSIDE OF THE FOUNDATION SLAB, ANY OTHER EXTERIOR MATERIAL DIMENSION MAY VARY DEPENDING ON FINISH.

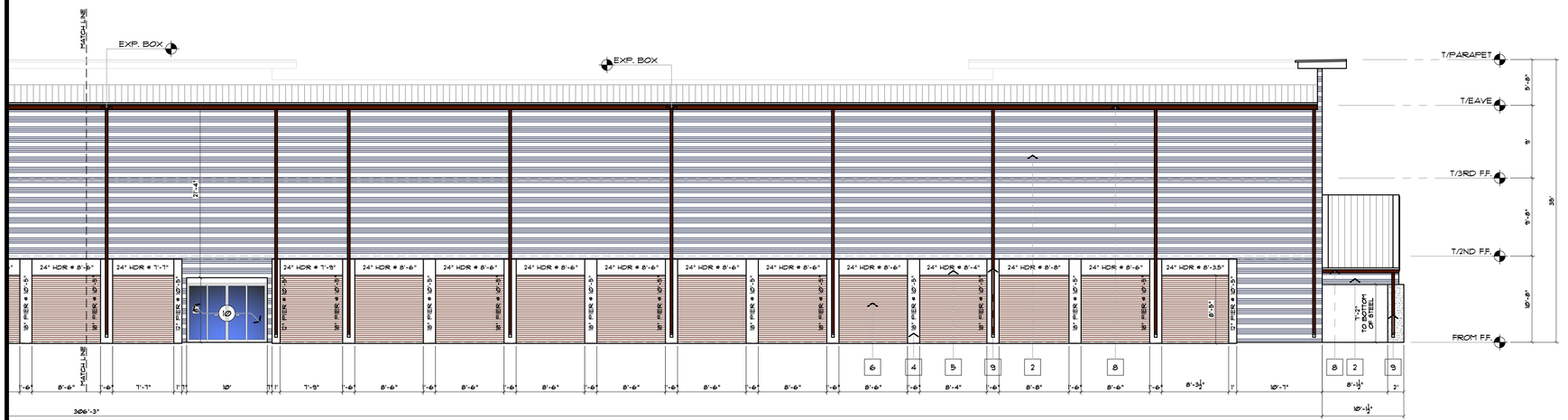
1/8" = 1'



BLDG "A" "A" EAST ELEVATION

NOTE: ALL EXTERIOR DIMENSIONS THAT ARE SHOWN ON THE ELEVATIONS ARE PULLED FROM OUTSIDE TO OUTSIDE OF THE FOUNDATION SLAB, ANY OTHER EXTERIOR MATERIAL DIMENSION MAY VARY DEPENDING ON FINISH.

1/8" = 1'



BLDG "A" "A" EAST ELEVATION

NOTE: ALL EXTERIOR DIMENSIONS THAT ARE SHOWN ON THE ELEVATIONS ARE PULLED FROM OUTSIDE TO OUTSIDE OF THE FOUNDATION SLAB, ANY OTHER EXTERIOR MATERIAL DIMENSION MAY VARY DEPENDING ON FINISH.

1/8" = 1'

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:26:13 -06'00'

EXTERIOR FINISH SCHEDULE

CALLOUT	HATCH	MATERIAL	DESCRIPTION	COLOR
1		METAL PANEL	APEC, 24GA REVERSE ROLL PBU PANEL HORIZONTAL (3/4"X36" COVERAGE)	ASH GREY
2		METAL PANEL	APEC, 24GA REVERSE ROLL PBU PANEL HORIZONTAL (3/4"X36" COVERAGE)	GALLERY BLUE
3		METAL PANEL	APEC, 24GA REVERSE ROLL PBU PANEL VERTICAL (3/4"X36" COVERAGE)	ASH GREY
4		METAL PIER	STRUCTURAL PIER (TEX COAT FIELD APPLIED) (COLOR T.B.D.)	COLOR T.B.D.
5		METAL HEADER	STRUCTURAL HEADER (TEX COAT FIELD APPLIED) (COLOR T.B.D.)	COLOR T.B.D.
6		METAL DOOR	ROLL-UP DOOR (BY OTHERS)	CRIMSON RED
7		CONCRETE BLOCK	CMU BLOCK (BY OTHERS)	COLOR T.B.D.
8		METAL TRIM	APEC, 24GA OVERSIZED GUTTERS	COLOR T.B.D.
9		METAL TRIM	APEC, 24GA OVERSIZED DOWNSPOUTS	COLOR T.B.D.
10		GLASS	GLASS STORE FRONT (BY OTHERS)	N/A
11		GLASS	FAUX GLASS STORE FRONT (BY OTHERS)	N/A

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SEALS

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PHONE: (407) 347-9614
INFO@RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE
MALABAR, FL 32950

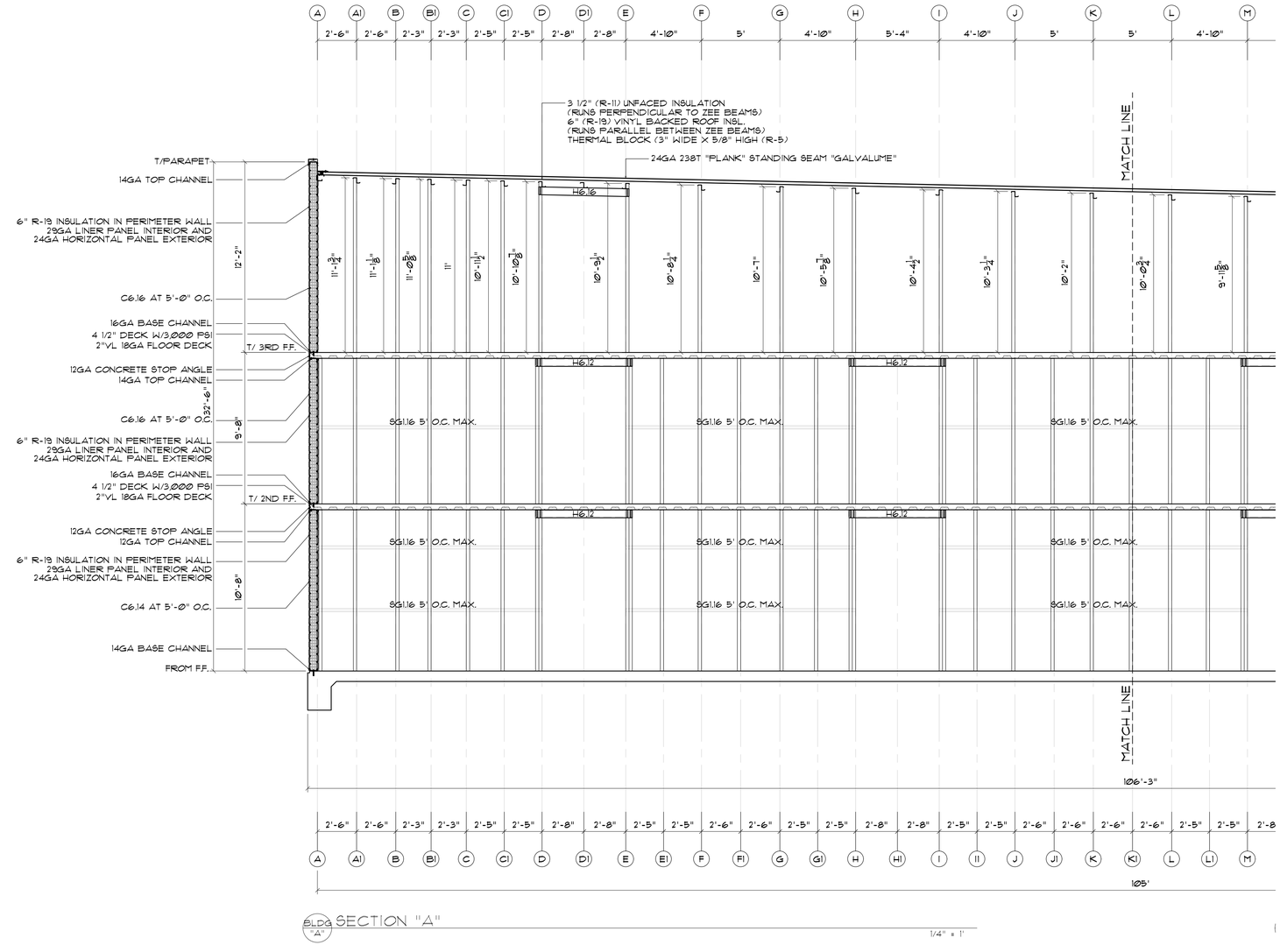
REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A" ELEVATIONS

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-E1.1



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CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:27:36 -06'00'

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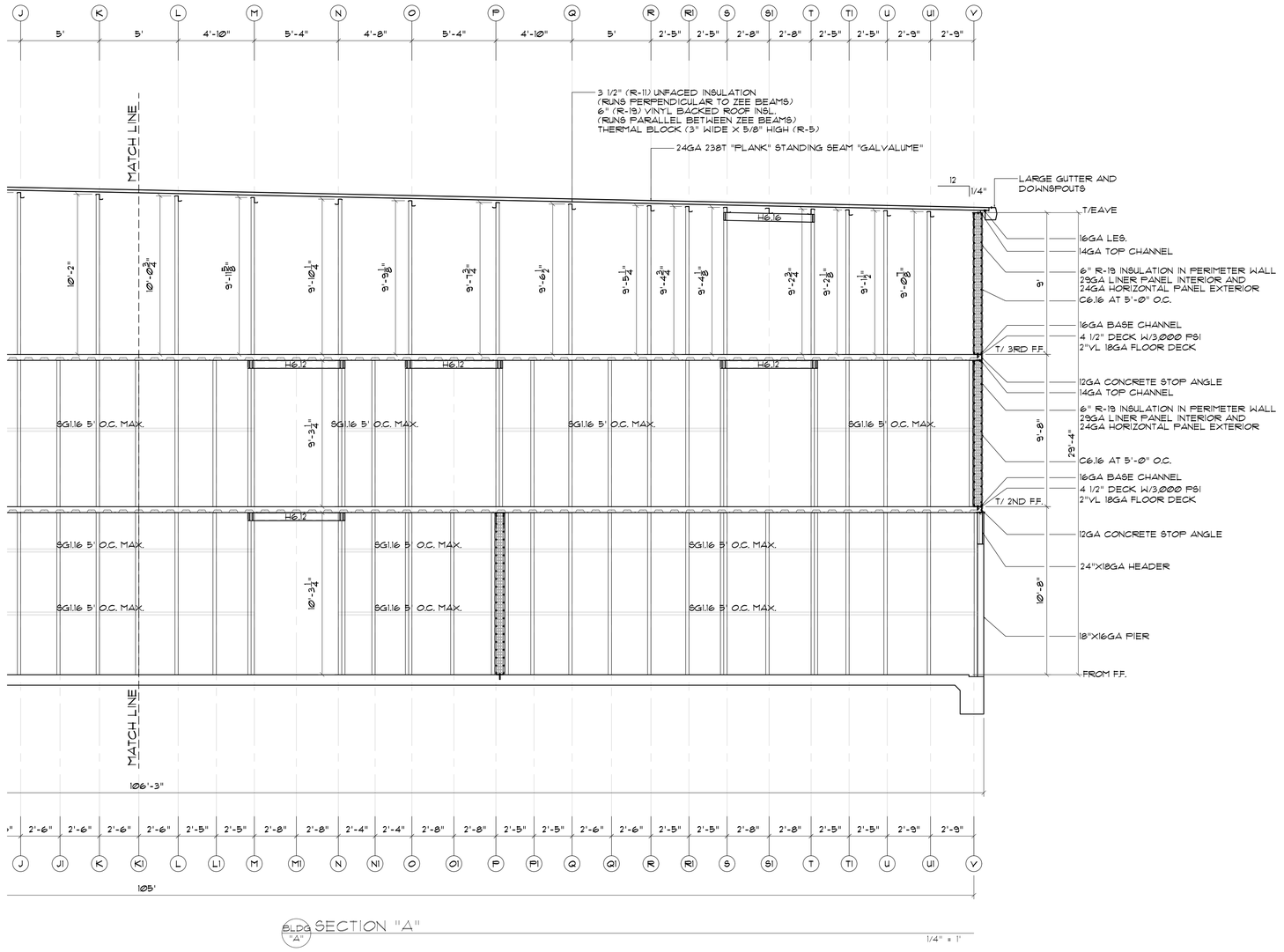
REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
SECTION CUT

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-E1.2



BLDG "A" SECTION "A"

1/4" = 1'

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CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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Date: 2024.12.10 11:29:36 -06'00'

ENGINEERING SOLUTIONS
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SHEET TITLE

BLDG. "A"
SECTION CUT

DATE	06-17-24
DESIGNED BY	RBS
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DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-E1.3

CHARLES A. WITT
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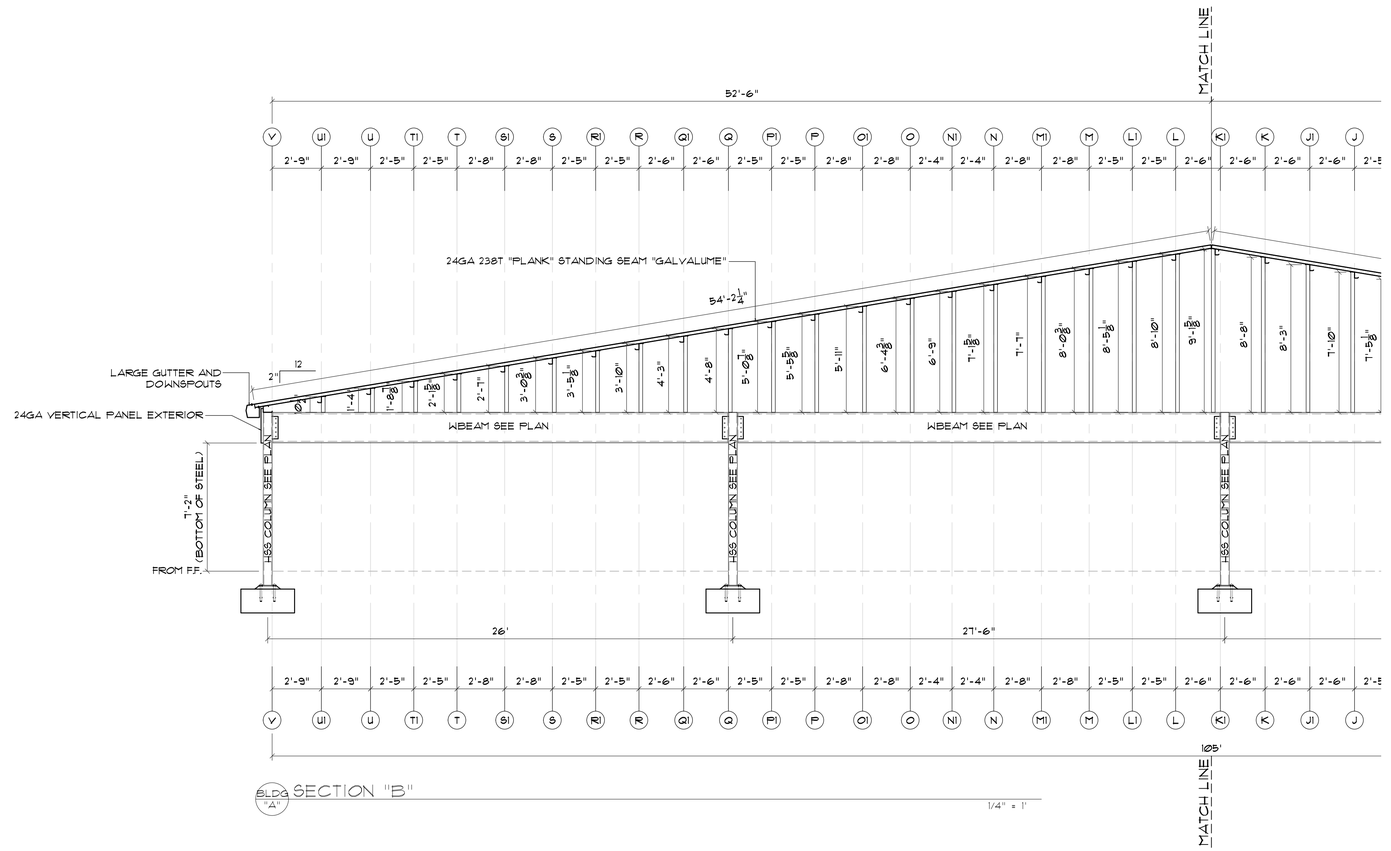
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:38:01 -06'00'



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SHEET TITLE

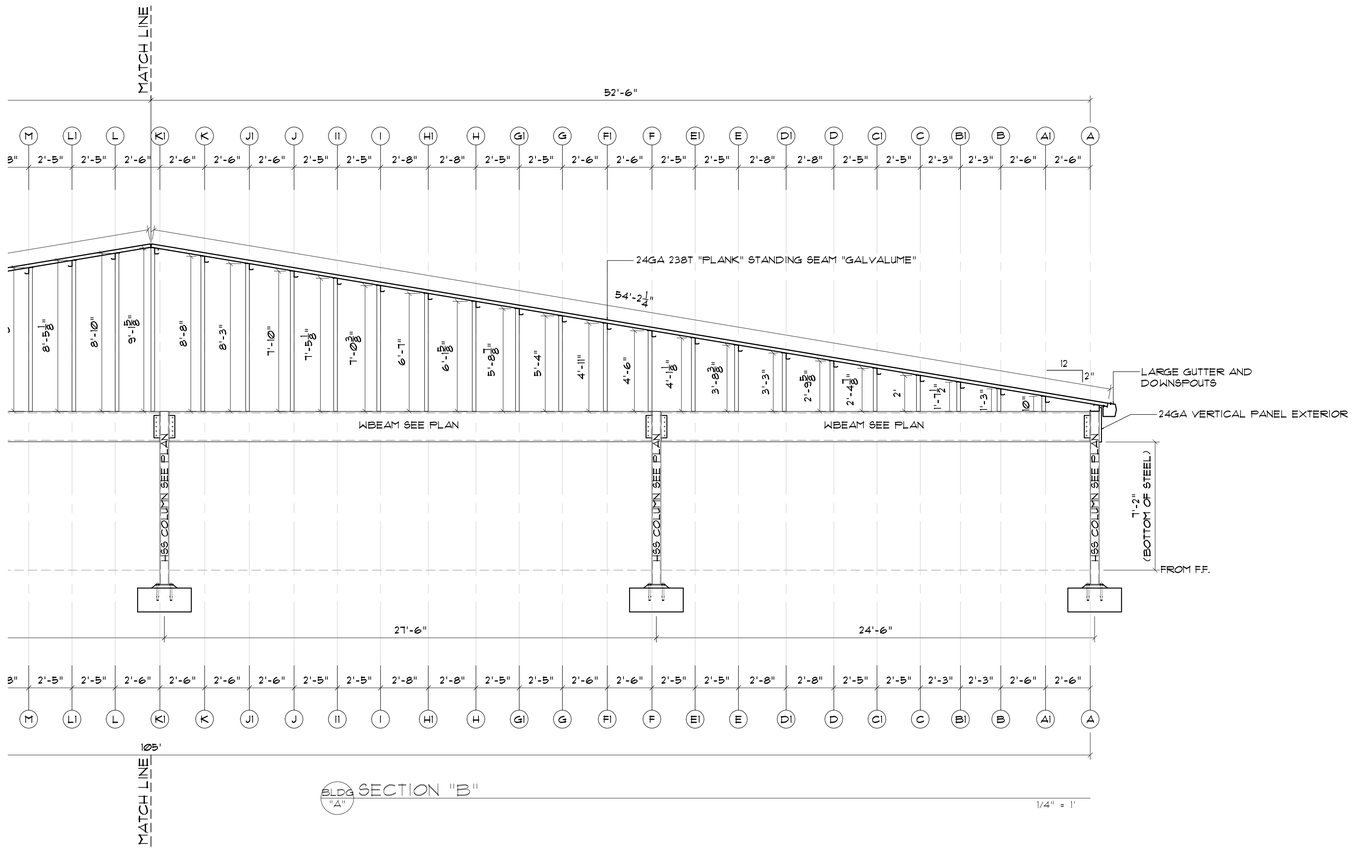
BLDG. "A"
SECTION CUT

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-E1.4

CHARLES A. WITT
LICENSE
No. 83199
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Digitally signed
by Charles A Witt
Date: 2024.12.10
11:39:39 -06'00'



BLDG "A" SECTION "B"

1/4" = 1'

ALL CONTENTS SHOWN WITHIN THESE PLANS, MAY NOT BE INCLUDED. SEE RAPID'S PROPOSAL/CONTRACT FOR ACTUAL INCLUDED ITEMS.

ENGINEERING SOLUTIONS

SEALS

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SUITE 401
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PHONE: (407) 347-8614
INFO@
RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHG.	DCH

SHEET TITLE

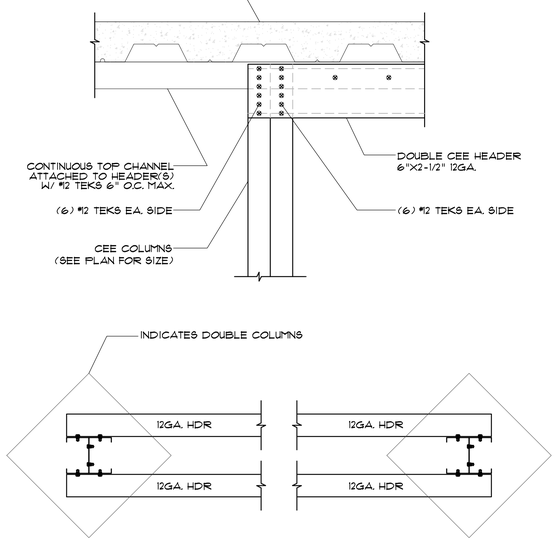
BLDG. "A"
SECTION CUT

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-E1.5

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

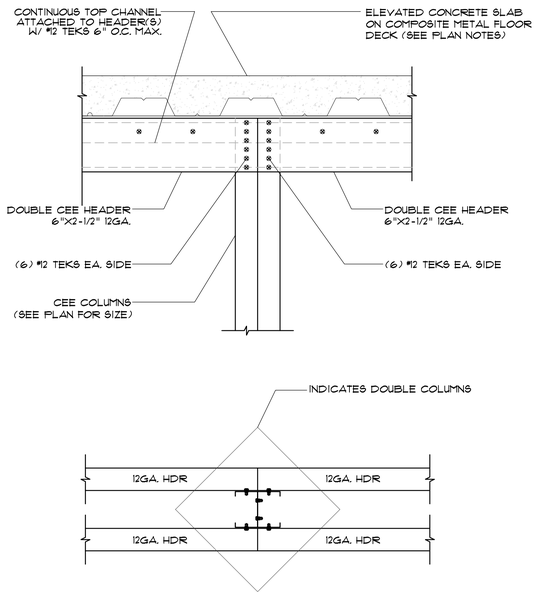
Digitally signed by Charles A Witt
Date: 2024.12.10 11:41:22 -06'00'



TOP VIEW OF CONNECTION
TEK BACK TO BACK COLUMNS TOGETHER
WITH #12 TEKS 1' O.C. STAGGERED

H6.12 HEADER DETAIL WITH A DISCONTINUOUS END

SCALE: 1 1/2" = 1'

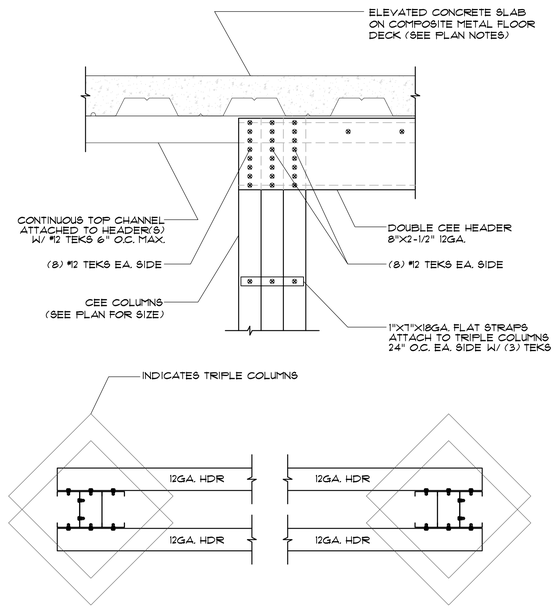


TOP VIEW OF CONNECTION
TEK BACK TO BACK COLUMNS TOGETHER
WITH #12 TEKS 1' O.C. STAGGERED

H6.12 HEADER DETAIL WITH A HEADER EACH SIDE OF COLUMN

SCALE: 1 1/2" = 1'

NOTE: FOR A BOTTOM FLOOR OF A 2 STORY OR THE MIDDLE FLOOR OF A 3 STORY, ONLY DOUBLE COLUMNS ARE NEEDED ON EITHER END OF HEADERS INSTEAD OF THE TRIPLE COLUMNS SHOWN.

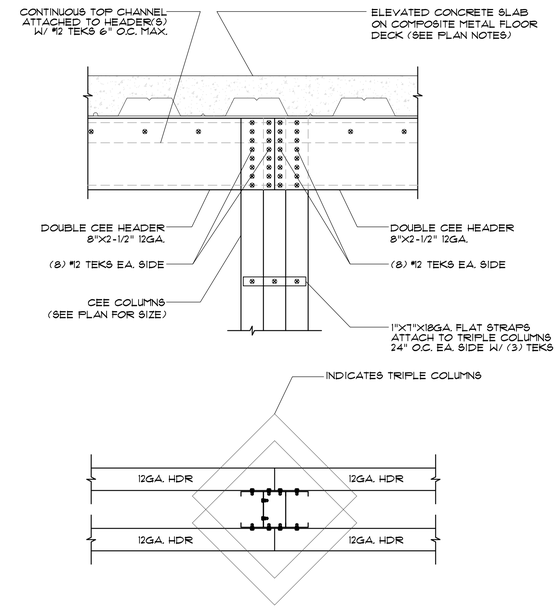


TOP VIEW OF CONNECTION
TEK BACK TO BACK COLUMNS TOGETHER
WITH #12 TEKS 1' O.C. STAGGERED

H8.12 HEADER DETAIL WITH A DISCONTINUOUS END

SCALE: 1 1/2" = 1'

NOTE: FOR A BOTTOM FLOOR OF A 2 STORY OR THE MIDDLE FLOOR OF A 3 STORY, ONLY DOUBLE COLUMNS ARE NEEDED ON EITHER END OF HEADERS INSTEAD OF THE TRIPLE COLUMNS SHOWN.

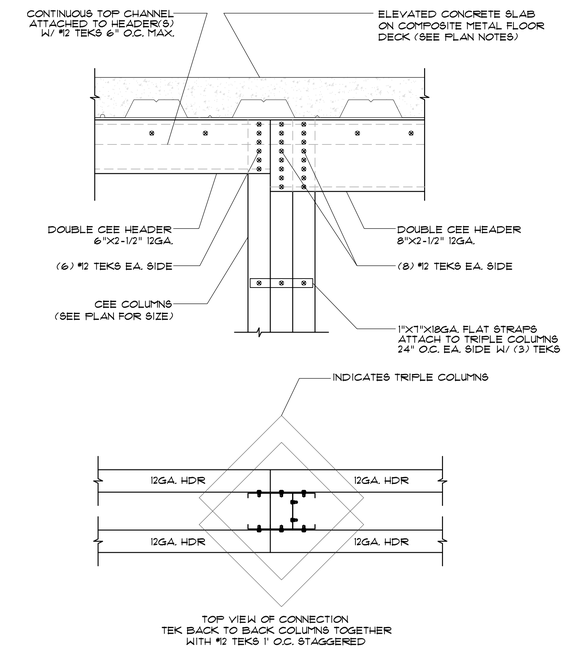


TOP VIEW OF CONNECTION
TEK BACK TO BACK COLUMNS TOGETHER
WITH #12 TEKS 1' O.C. STAGGERED

H8.12 HEADER DETAIL WITH A CONTINUOUS END

SCALE: 1 1/2" = 1'

NOTE: FOR A BOTTOM FLOOR OF A 2 STORY OR THE MIDDLE FLOOR OF A 3 STORY, ONLY DOUBLE COLUMNS ARE NEEDED ON EITHER END OF HEADERS INSTEAD OF THE TRIPLE COLUMNS SHOWN.

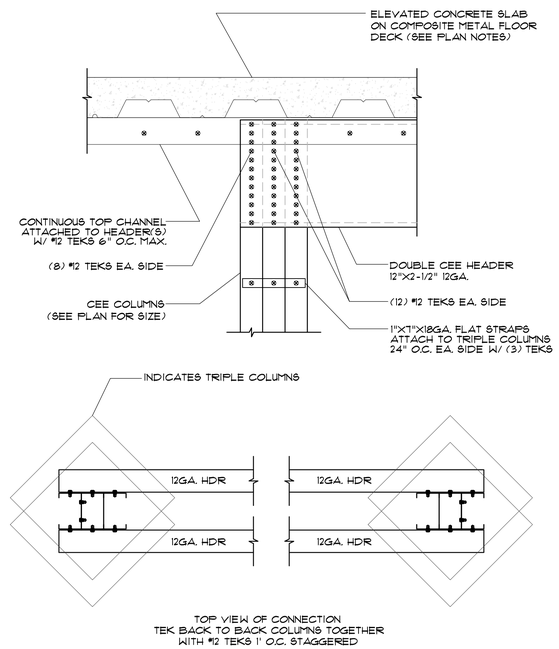


TOP VIEW OF CONNECTION
TEK BACK TO BACK COLUMNS TOGETHER
WITH #12 TEKS 1' O.C. STAGGERED

H6.12 TO H8.12 HEADER DETAIL WITH A DISCONTINUOUS END

SCALE: 1 1/2" = 1'

NOTE: FOR A BOTTOM FLOOR OF A 2 STORY OR THE MIDDLE FLOOR OF A 3 STORY, ONLY DOUBLE COLUMNS ARE NEEDED ON EITHER END OF HEADERS INSTEAD OF THE TRIPLE COLUMNS SHOWN.

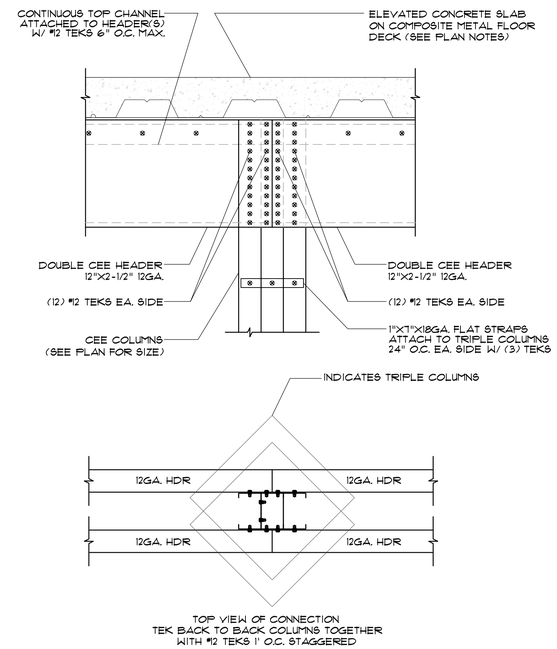


TOP VIEW OF CONNECTION
TEK BACK TO BACK COLUMNS TOGETHER
WITH #12 TEKS 1' O.C. STAGGERED

H12.12 HEADER DETAIL WITH A DISCONTINUOUS END

SCALE: 1 1/2" = 1'

NOTE: FOR A BOTTOM FLOOR OF A 2 STORY OR THE MIDDLE FLOOR OF A 3 STORY, ONLY DOUBLE COLUMNS ARE NEEDED ON EITHER END OF HEADERS INSTEAD OF THE TRIPLE COLUMNS SHOWN.

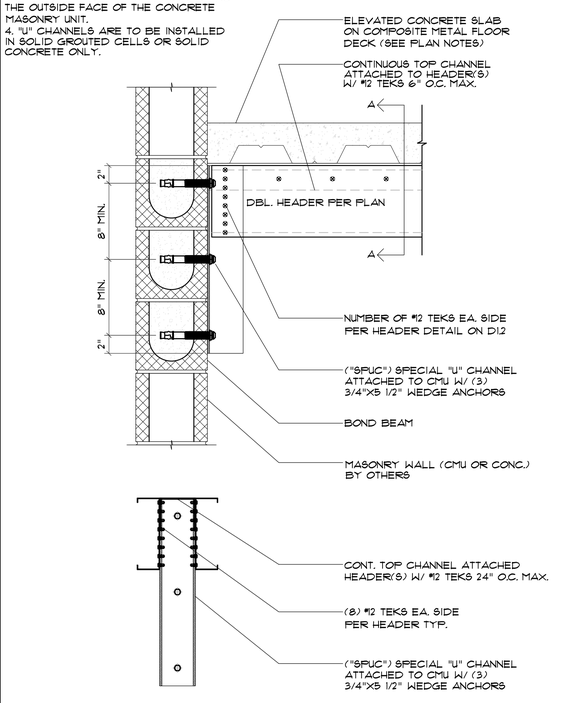


TOP VIEW OF CONNECTION
TEK BACK TO BACK COLUMNS TOGETHER
WITH #12 TEKS 1' O.C. STAGGERED

H12.12 HEADER DETAIL WITH A CONTINUOUS END

SCALE: 1 1/2" = 1'

NOTES:
1. ANCHORS MUST BE INSTALLED A MIN. OF 1 3/8" FROM ANY VETICAL MORTAR JOINT
2. BOLT LOCATIONS ARE LIMITED TO ONE PER CELL
3. EMBEDMENT DEPTH IS MEASURED FROM THE OUTSIDE FACE OF THE CONCRETE MASONRY UNIT.
4. "U" CHANNELS ARE TO BE INSTALLED IN SOLID GROUTED CELLS OR SOLID CONCRETE ONLY.



TYPICAL HEADER TO CMU DETAIL

SCALE: 1 1/2" = 1'

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JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE
MALABAR, FL 32950

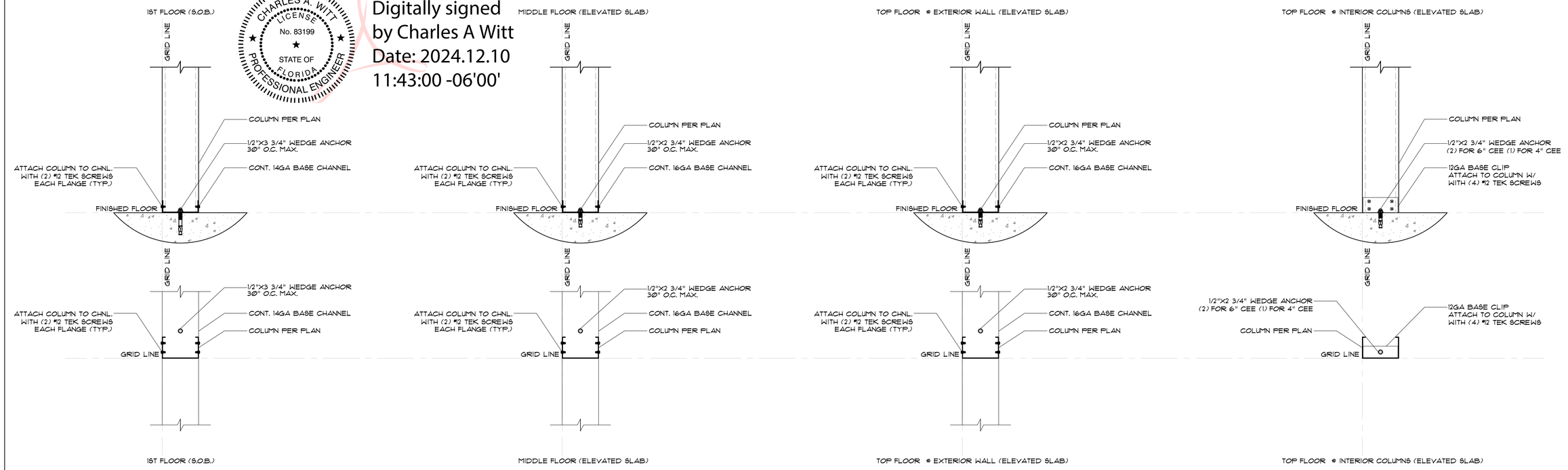
REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

STRUCTURAL DETAILS

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-D1.0



TYPICAL COLUMN TO SLAB ANCHORING (MULTI-STORY)

SCALE: 1 1/2" = 1'

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

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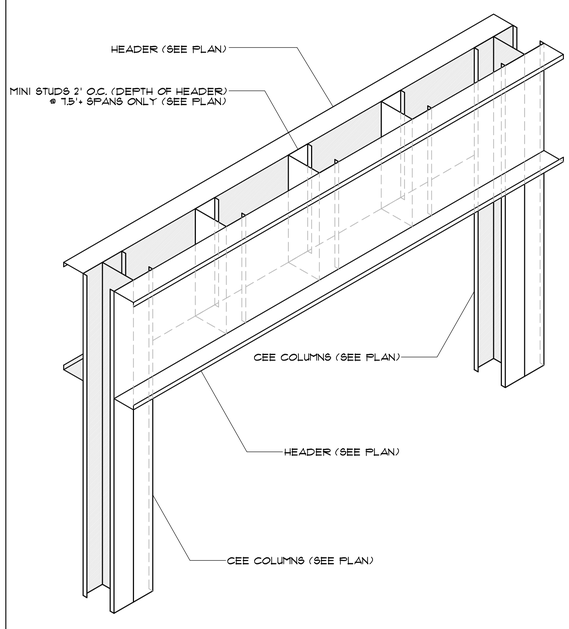
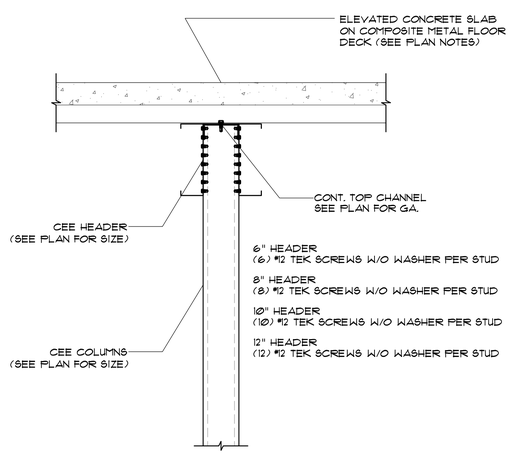
Date: 2024.12.10 11:43:00 -06'00'

NOTE: MINI STUDS ARE TO BE INSERTED 2' O.C. IN BETWEEN THE HEADERS @ SPANS GREATER THAN 7.5', SEE PAGE D1.2 FOR TYP. SCREW COUNTS



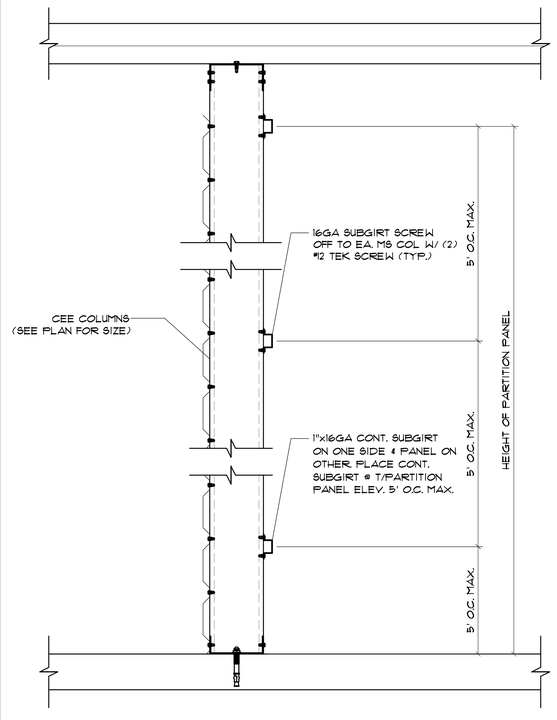
TYPICAL HEADER TO COLUMN W/ MINI STUDS 2' O.C.

SCALE: 1 1/2" = 1'



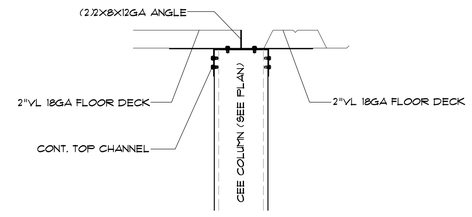
TYPICAL HEADER SCREW COUNT ATTACHMENT

SCALE: 1 1/2" = 1'



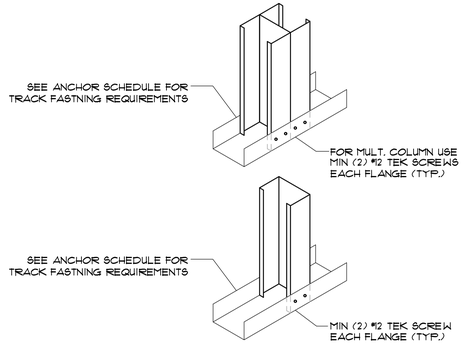
SEE PLAN NOTES FOR REQUIRED BRACING LOCATIONS

SCALE: 1 1/2" = 1'



TURNED DECK TRANSITION

SCALE: 1 1/2" = 1'



STUD TO CHANNEL CONNECTION DETAIL

SCALE: 1 1/2" = 1'

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JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

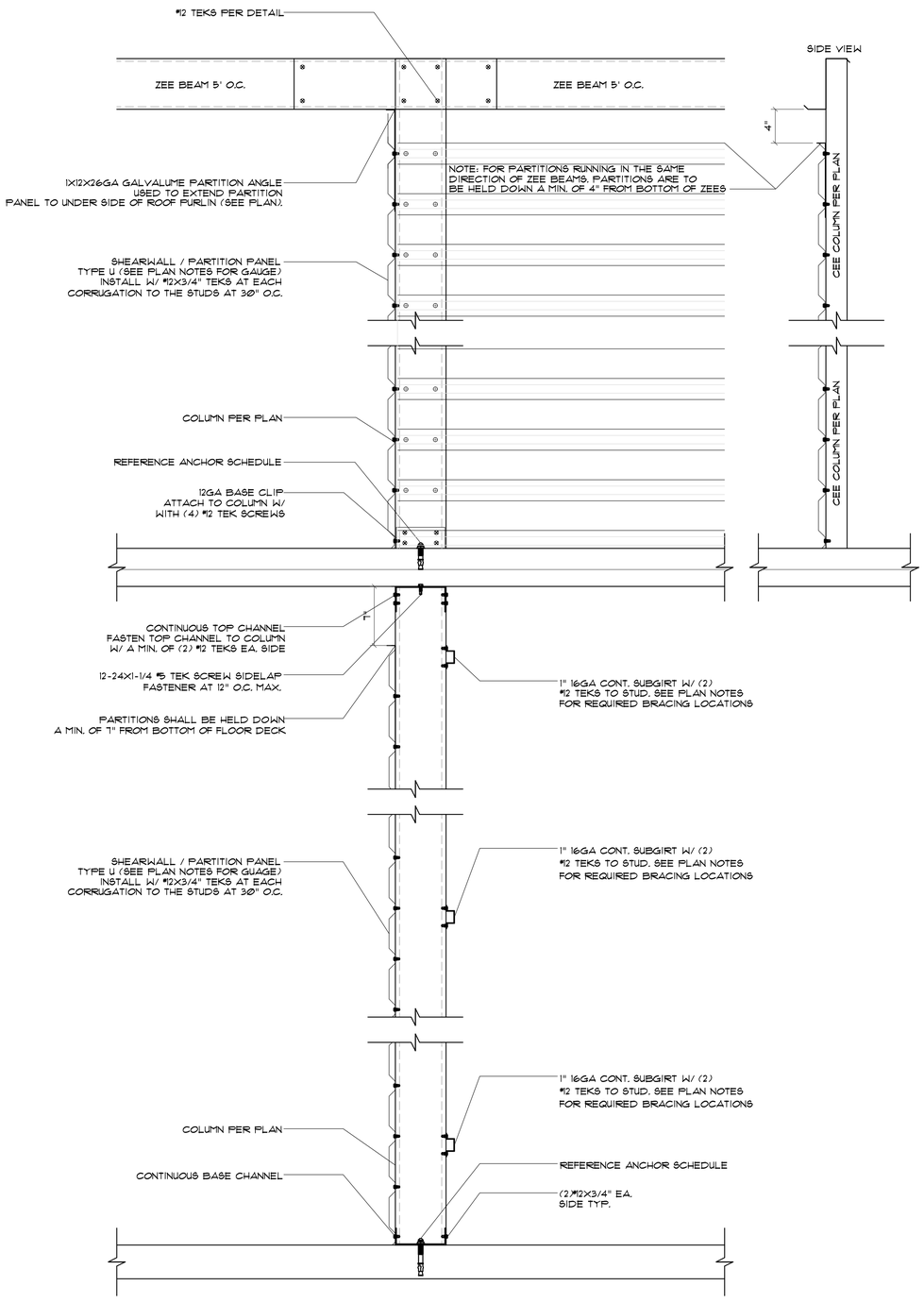
REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

STRUCTURAL DETAILS

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-D1.1

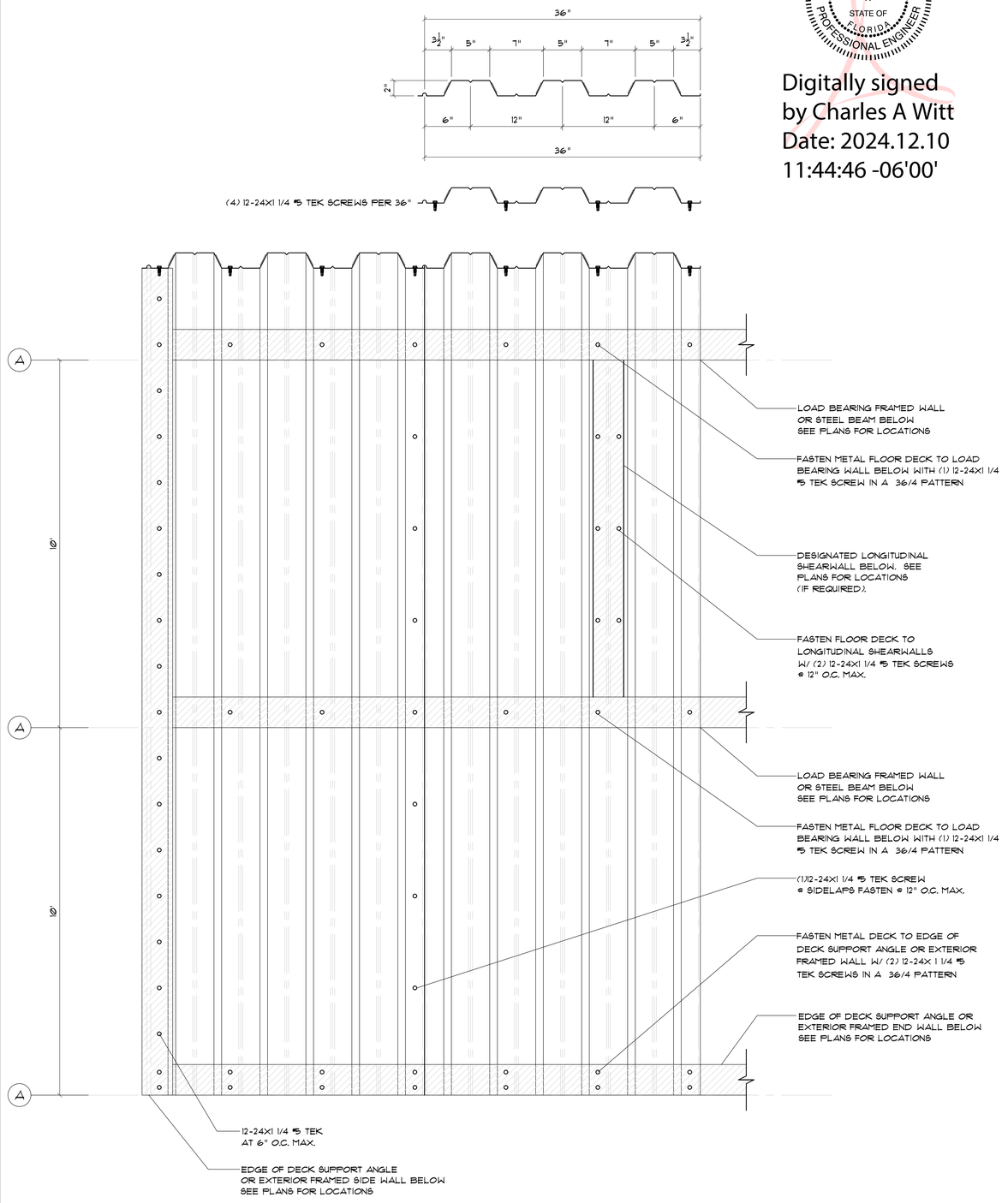


TYPICAL SECTION AT HORIZONTAL PARTITIONING

SCALE: 1 1/2" = 1'

NOTE:

1. MULTIPLE COLUMNS SHOWN ON THE SECOND FLOOR FRAMING PLAN SHALL BE SUPPORTED BY EQUIVALENT MULTIPLE COLUMNS FROM FLOOR BELOW.
2. FASTEN CONT. MS TRACK TO MS HEADER BEAMS W/ #12 TEK SCREWS @ 12" O.C. MAX. (STAGGERED 12" TO EACH HEADER BEAM).



2VL1 OR 3VL1 COMPOSITE METAL FLOOR DECK ATTACHMENT DETAIL

SCALE: 1 1/2" = 1'

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
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MALABAR, FL 32950

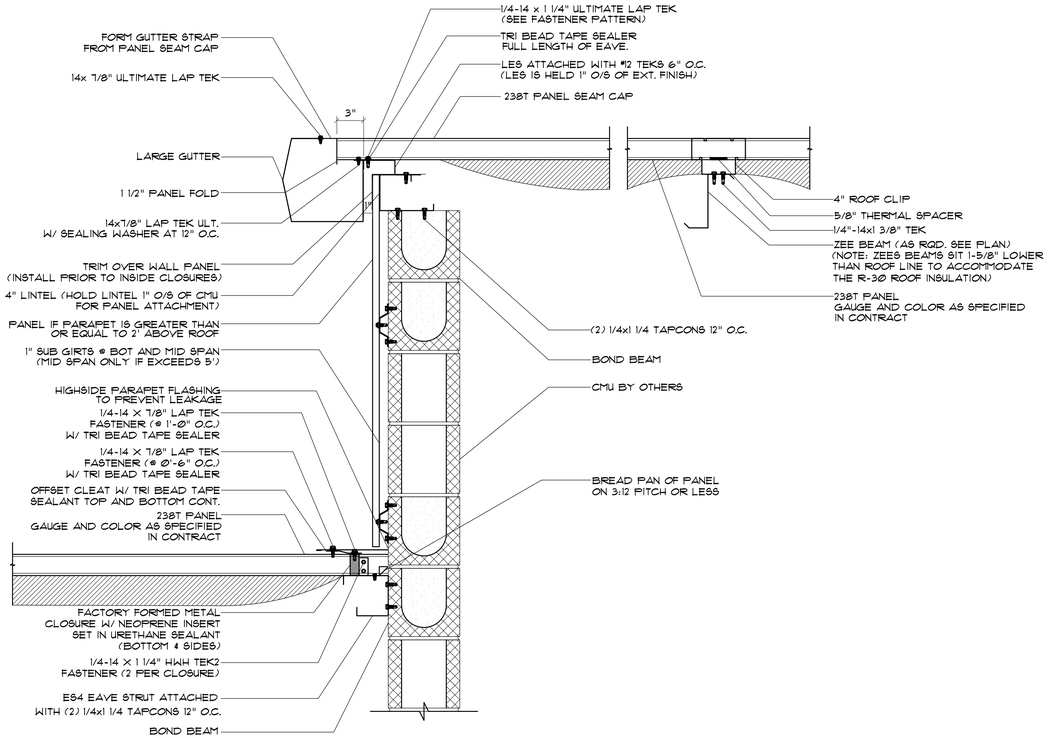
REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

STRUCTURAL DETAILS

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-D1.2

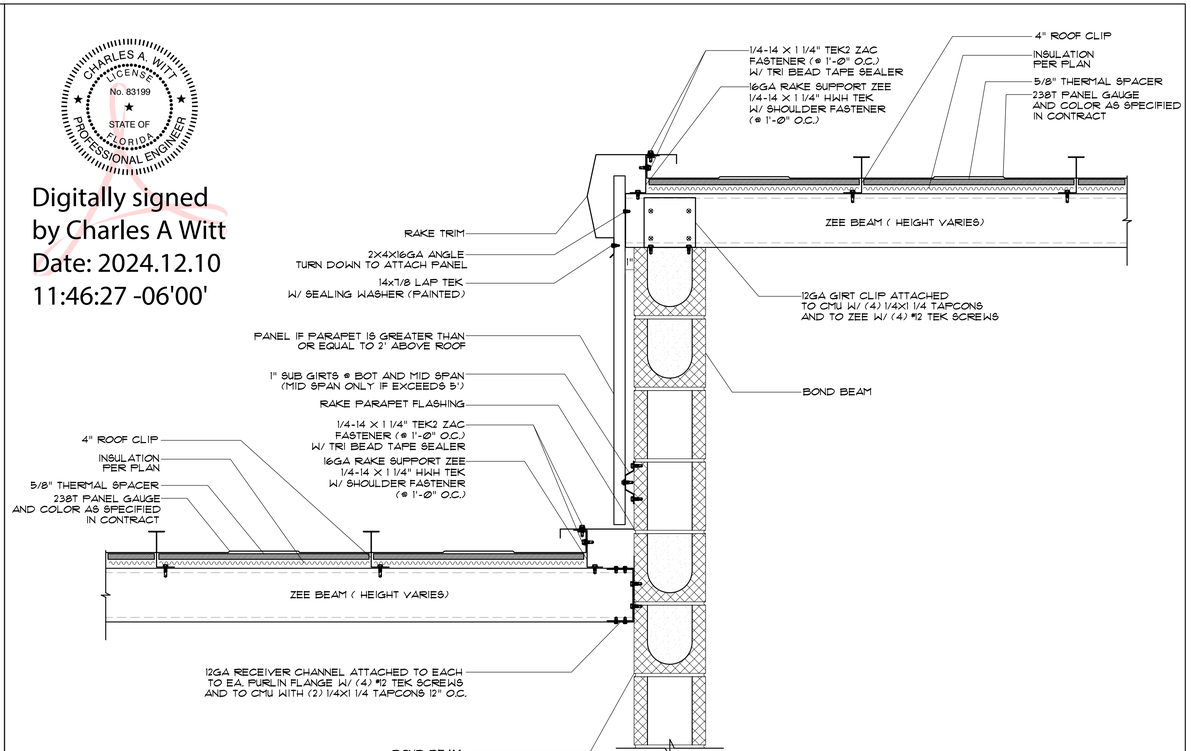


1 / D1.3 LOWSIDE EAVE @ ELEVATOR

SCALE: 1 1/2" = 1'

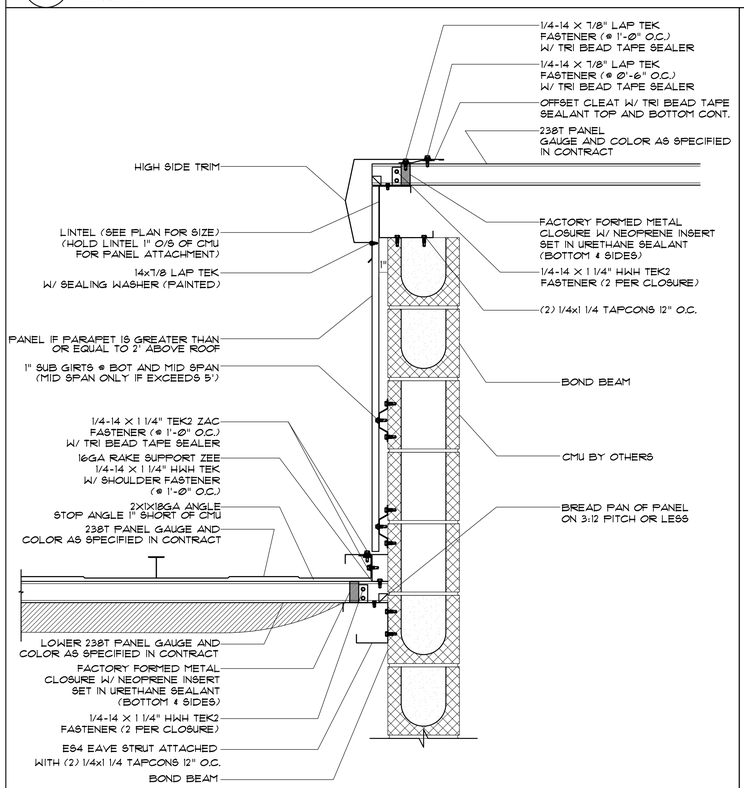
CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:46:27 -06'00'



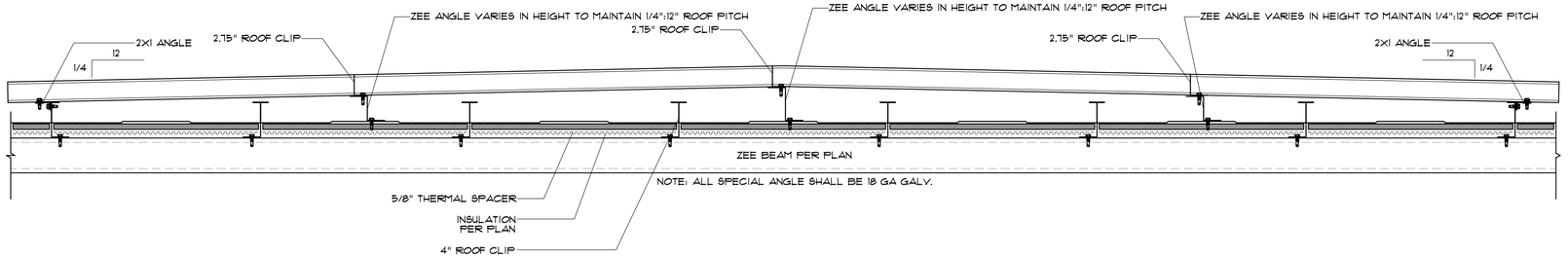
2 / D1.3 ENDWALL (RAKE) @ ELEVATOR WITH R-30 ROOF INSULATION

SCALE: 1 1/2" = 1'



3 / D1.3 HIGHSIDE EAVE @ TURNED ROOF BEHIND ELEVATOR

SCALE: 1 1/2" = 1'



NOTE: FRAMING BEHIND ELEVATOR WILL VARY FROM JOB TO JOB. THESE ARE JUST TYPICAL EXAMPLES.

4 / D1.3 DETAIL AT TURNED ROOF BEHIND ELEVATOR

SCALE: 1 1/2" = 1'

K&W ENGINEERING SOLUTIONS

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MALABAR, FL 32950

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1	10-28-24	EXTERIOR CHANGES	DCH
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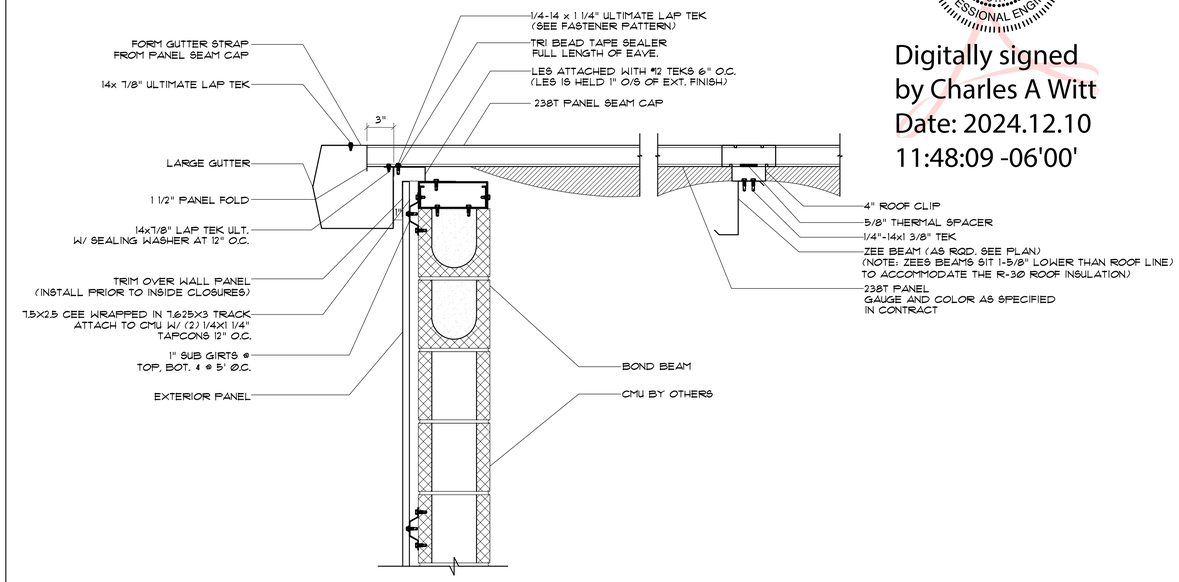
SHEET TITLE

STRUCTURAL DETAILS

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-D1.3

NOTE: TOP OF CMU TO SIT 3" BELOW TOP OF PURLIN LINE. SLOPE CMU TO MATCH THE PITCH OF THE ROOF.

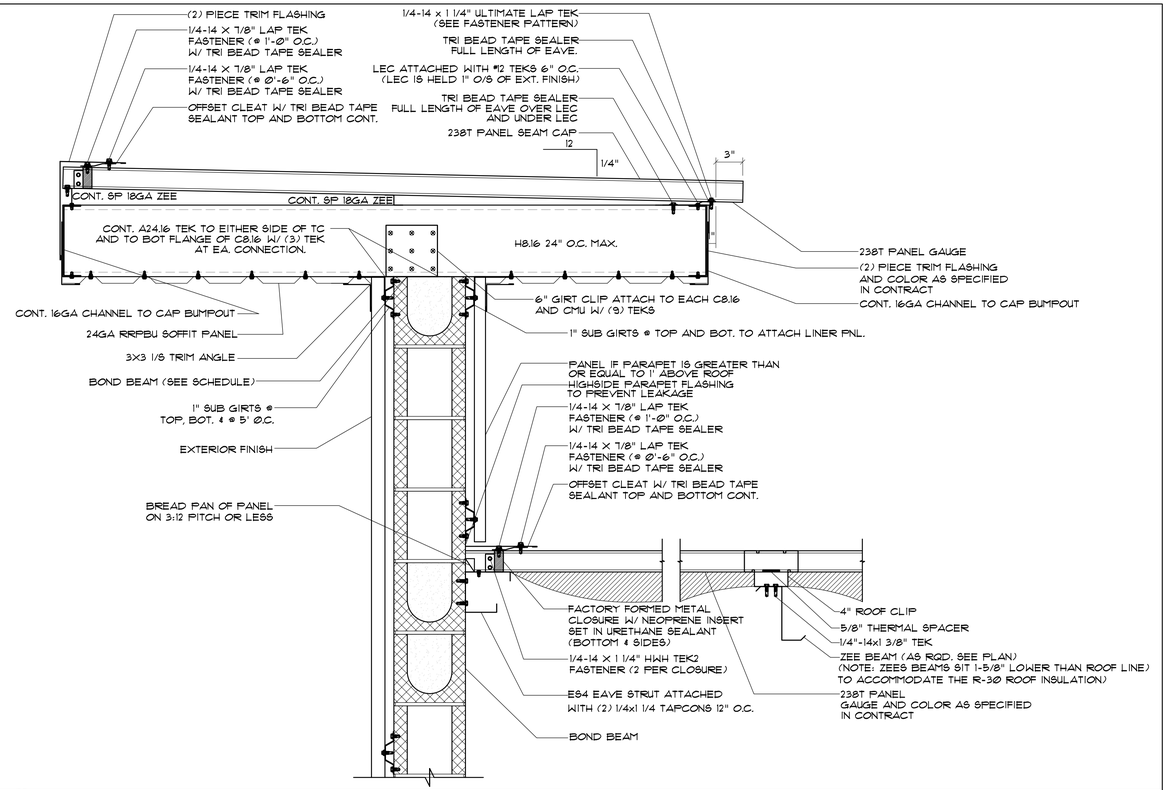


1 D1.4 EXT. STAIR DETAIL @ LOWSIDE EAVE

SCALE: 1 1/2" = 1'

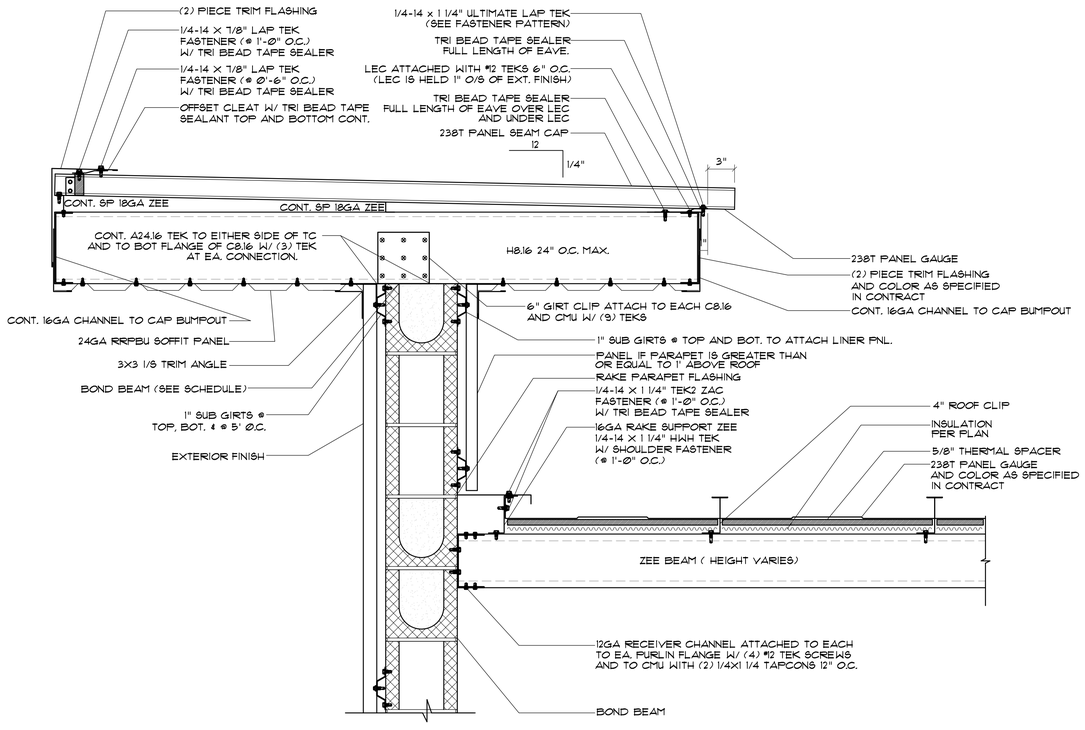
CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:48:09 -06'00'



2 D1.4 EXT. STAIR DETAIL @ HIGHSIDE PARAPET

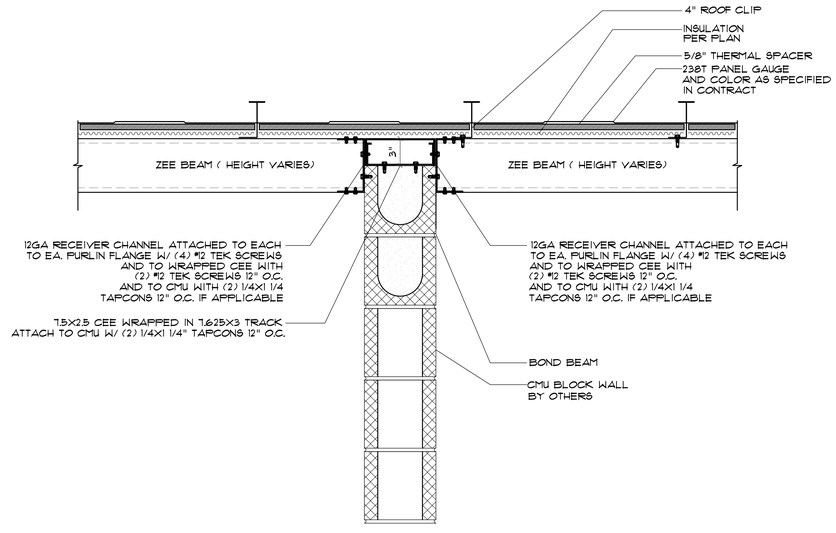
SCALE: 1 1/2" = 1'



3 D1.4 EXT. STAIR DETAIL @ ENDWALL PARAPET

SCALE: 1 1/2" = 1'

NOTE: TOP OF CMU TO SIT 3" BELOW TOP OF PURLIN LINE. SLOPE CMU TO MATCH THE PITCH OF THE ROOF.



4 D1.4 INT. STAIR DETAIL W/ R-30 ROOF INSULATION

SCALE: 1 1/2" = 1'

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2	12-03-24	ADDRESS CHNG.	DCH

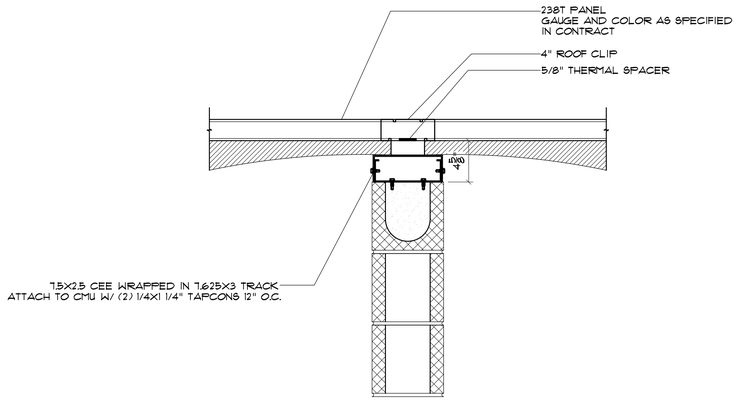
SHEET TITLE

STRUCTURAL DETAILS

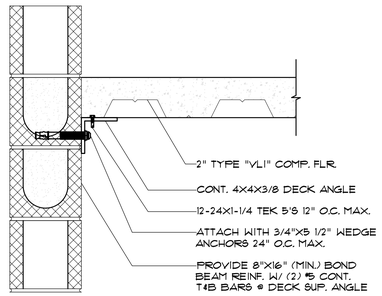
DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-D1.4

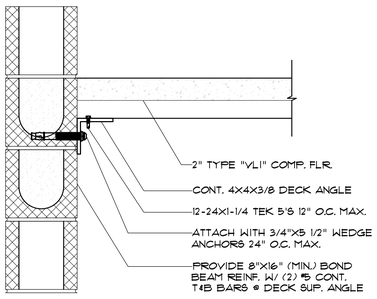
NOTE: TOP OF CMU TO SIT 3" BELOW TOP OF PURLIN LINE. SLOPE CMU TO MATCH THE PITCH OF THE ROOF.



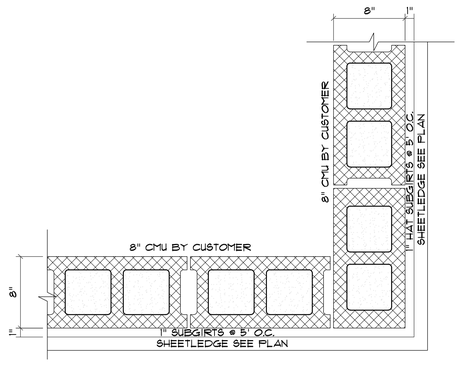
1 D1.5 INT. STAIR DETAIL
SCALE: 1 1/2" = 1'



2 D1.5 DECK SUPPORT ANGLE TO CMU (SIDEWALL)
SCALE: 1 1/2" = 1'



3 D1.5 DECK SUPPORT ANGLE TO CMU (ENDWALL)
SCALE: 1 1/2" = 1'



4 D1.5 DETAIL @ EXTERIOR STAIR WALLS
SCALE: 1 1/2" = 1'

CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:49:48 -06'00'

ENGINEERING SOLUTIONS

SEALS

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PHONE: (407) 347-9614
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JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

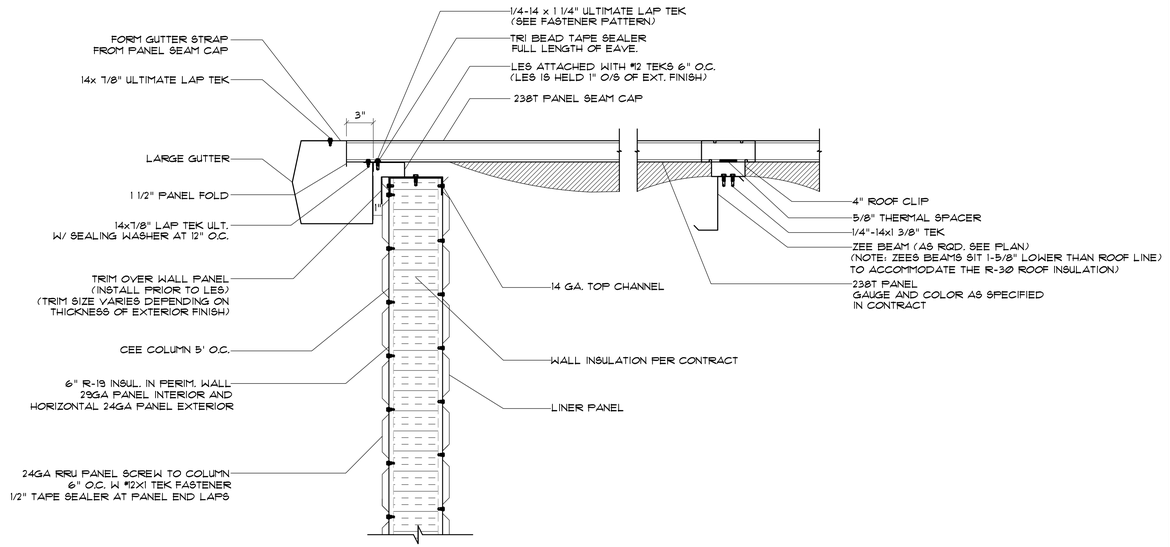
REV:	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHG.	DCH

SHEET TITLE

STRUCTURAL DETAILS

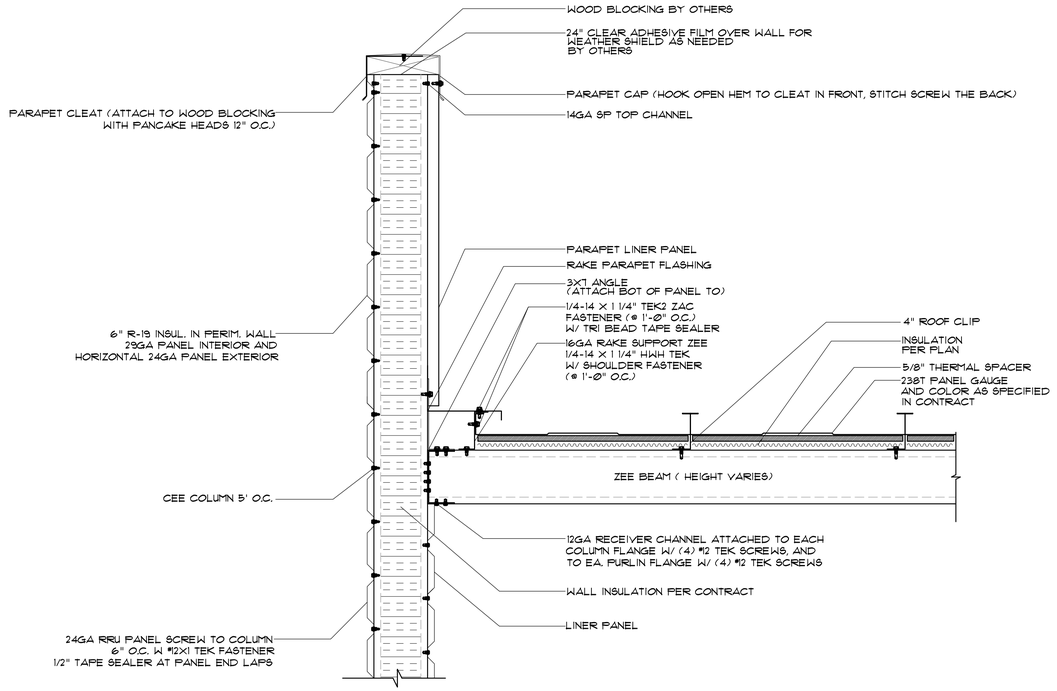
DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-D1.5



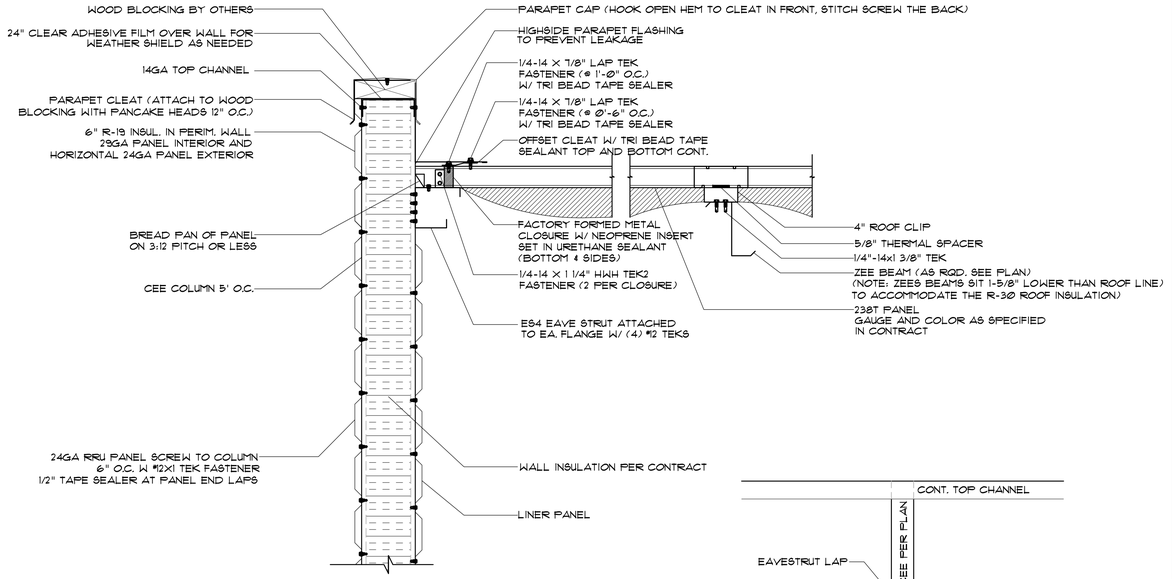
1 D1.6 ROOF LOWSIDE EAVE PANEL WALL @ GUTTER WITH R-30 ROOF INSULATION

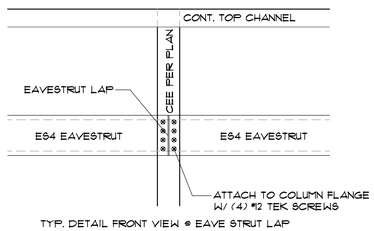
SCALE: 1 1/2" = 1'



2 D1.6 ENDWALL PARAPET WALL SECTION WITH R-30 ROOF INSULATION

SCALE: 1 1/2" = 1'

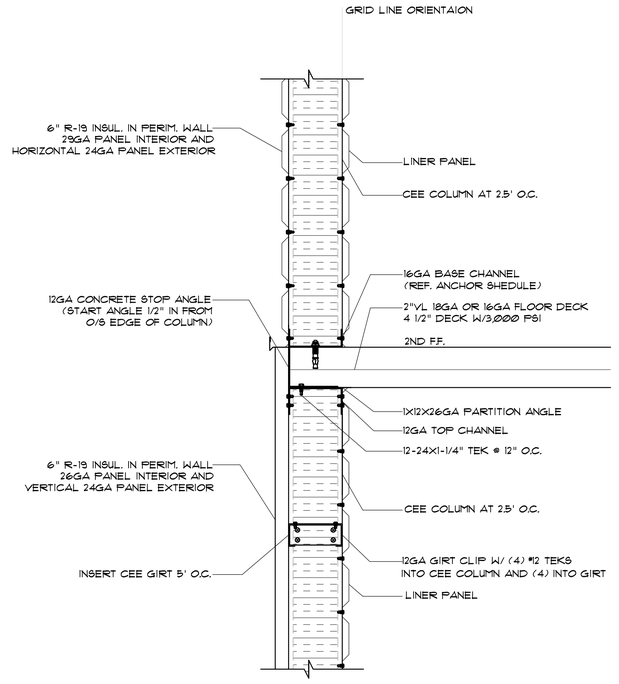




TYP. DETAIL FRONT VIEW @ EAVE STRUT LAP

3 D1.6 HIGHSIDE PARAPET WALL SECTION WITH R-30 ROOF INSULATION

SCALE: 1 1/2" = 1'



4 D1.6 TYP. WALL SECTION @ END WALLS

SCALE: 1 1/2" = 1'

CHARLES A. WITT
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by Charles A Witt
Date: 2024.12.10
11:51:39 -06'00'

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1450 W RAILROAD AVE.
MALABAR, FL 32950

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2	12-03-24	ADDRESS CHG.	DCH

SHEET TITLE

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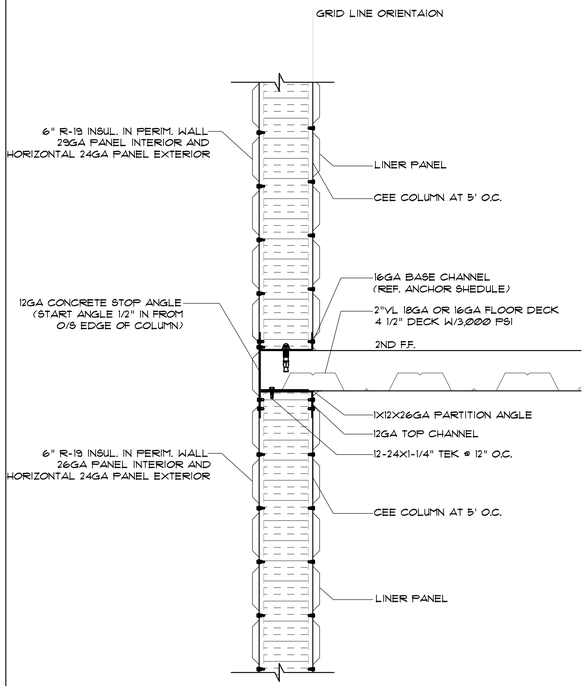
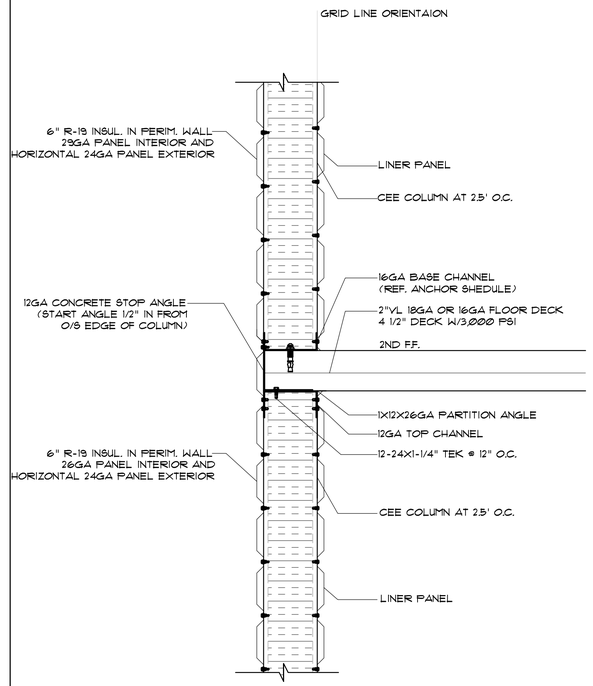
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

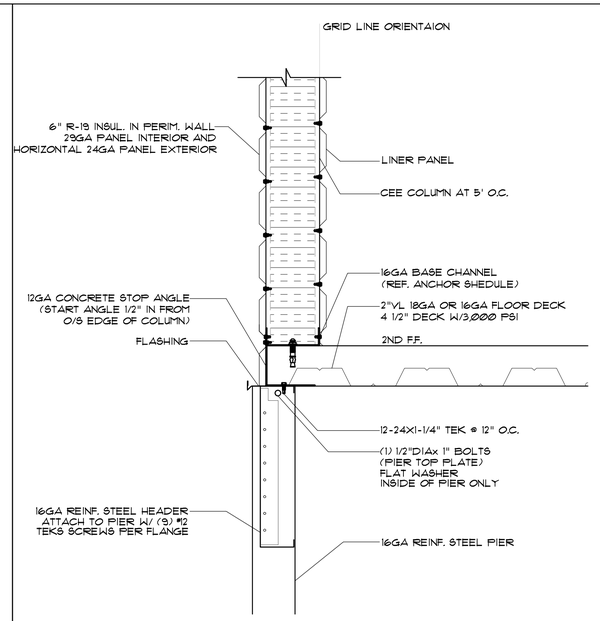
RBS-D1.6



1 D1.7 TYP. WALL SECTION @ SIDE WALLS
SCALE: 1 1/2" = 1'



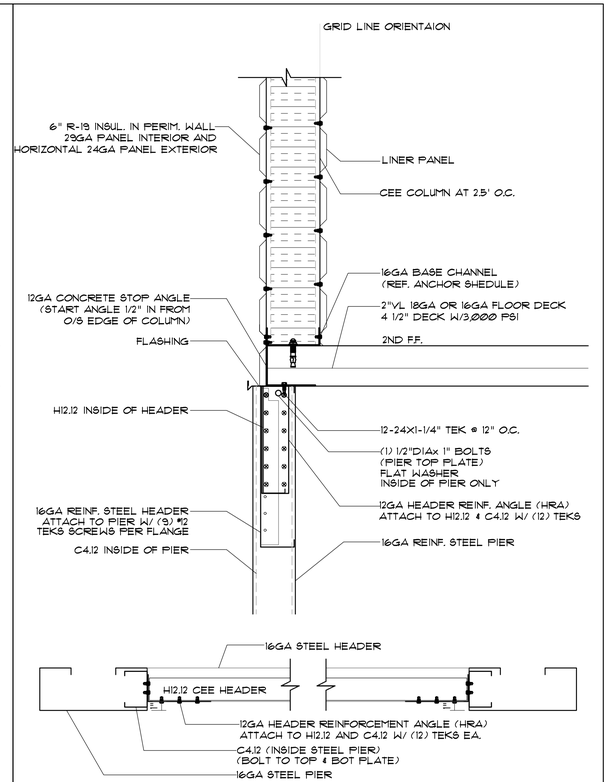
2 D1.7 TYP. WALL SECTION @ END WALLS
SCALE: 1 1/2" = 1'



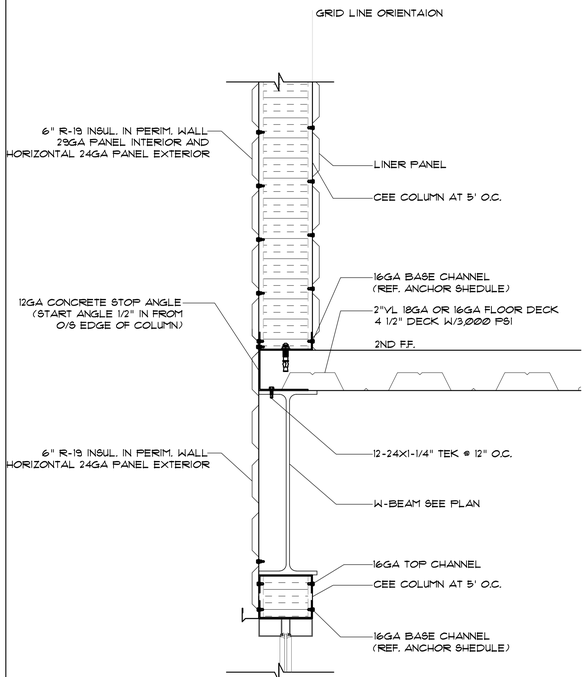
CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:53:37 -06'00'

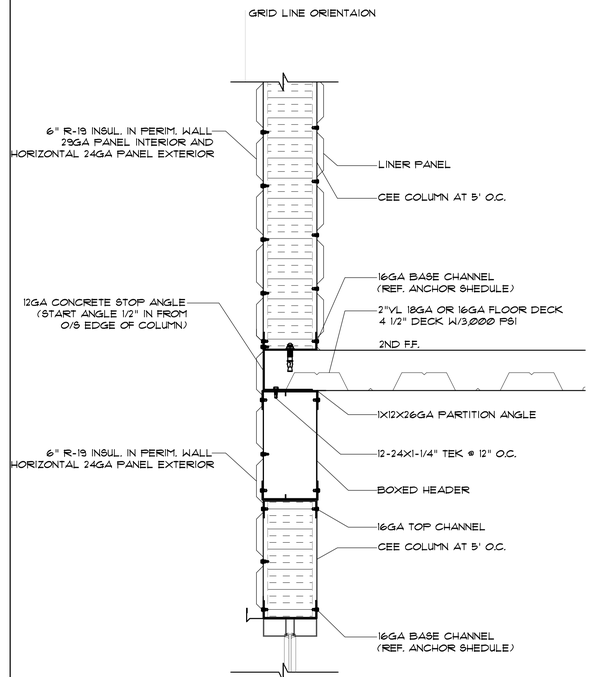
3 D1.7 TYP. WALL SECTION @ SIDE WALLS @ PIERS AND HEADERS
SCALE: 1 1/2" = 1'



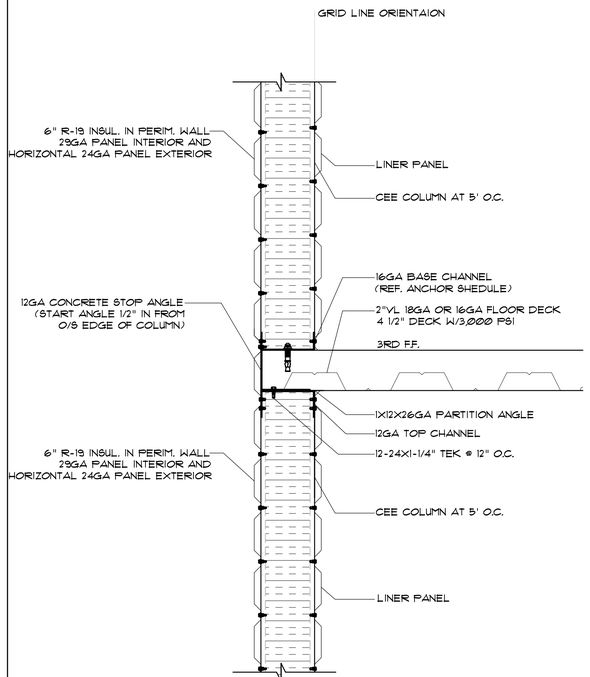
4 D1.7 TYP. WALL SECTION @ END WALLS @ REINFORCED PIERS AND HEADERS
SCALE: 1 1/2" = 1'



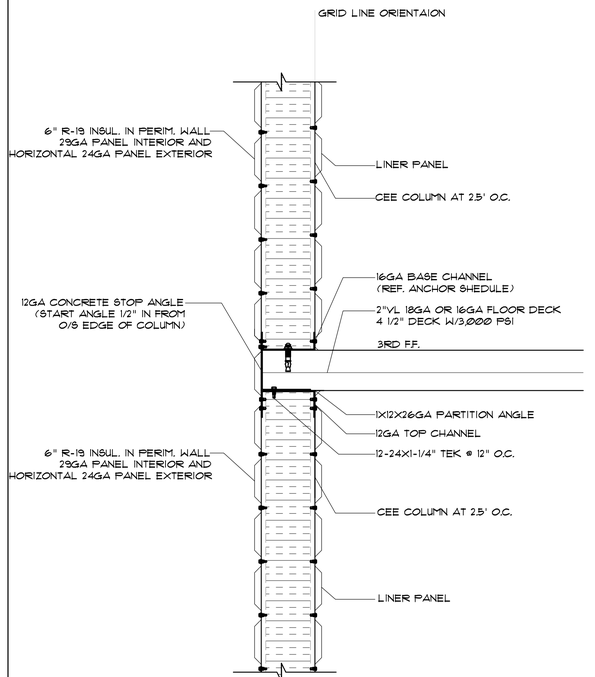
5 D1.7 TYP. WALL SECTION @ SIDE WALLS
SCALE: 1 1/2" = 1'



6 D1.7 TYP. WALL SECTION @ SIDE WALLS
SCALE: 1 1/2" = 1'



7 D1.7 TYP. WALL SECTION @ SIDE WALLS
SCALE: 1 1/2" = 1'



8 D1.7 TYP. WALL SECTION @ END WALLS
SCALE: 1 1/2" = 1'

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JOB NUMBER:
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MALABAR, FL 32950

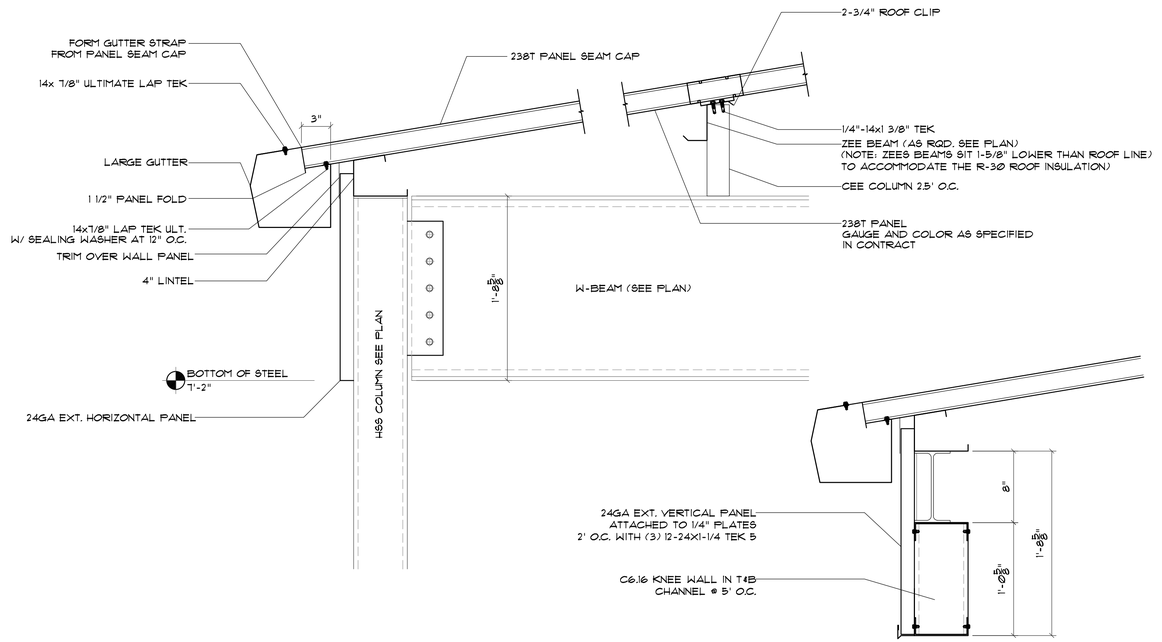
REV:	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

STRUCTURAL DETAILS

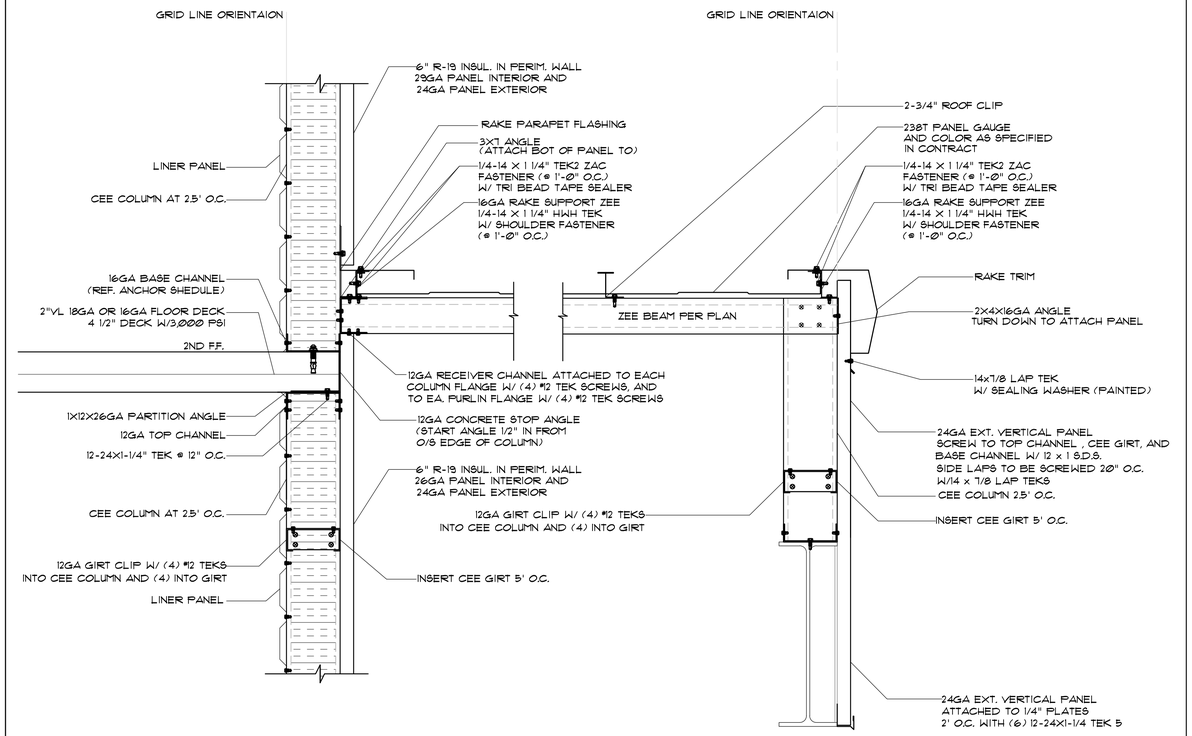
DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-D1.7



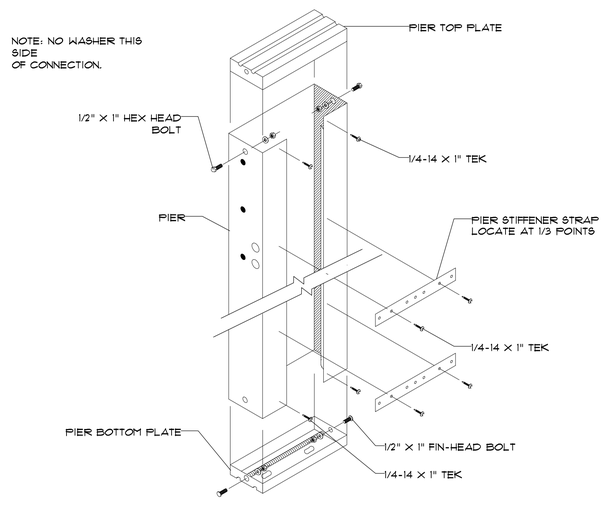
1 D1.8 TYP. CANOPY SECTION @ LOW SIDE

SCALE: 1 1/2" = 1'



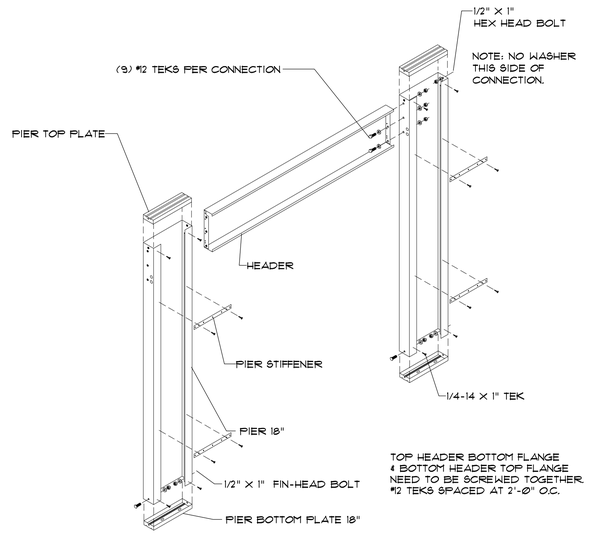
2 D1.8 TYP. CANOPY SECTION @ END WALL

SCALE: 1 1/2" = 1'



PIER ASSEMBLY

N.T.S.



PIER AND HEADER ASSEMBLY

N.T.S.

CHARLES A. WITT
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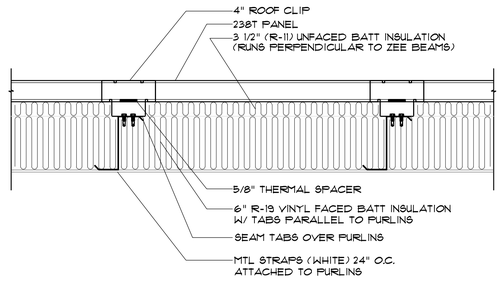
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:56:05 -06'00'



LONG TAB BANDING ROOF INSULATION SYSTEM R-30 FILLED CAVITY DETAIL

SCALE: 1 1/2" = 1'

ENGINEERING SOLUTIONS
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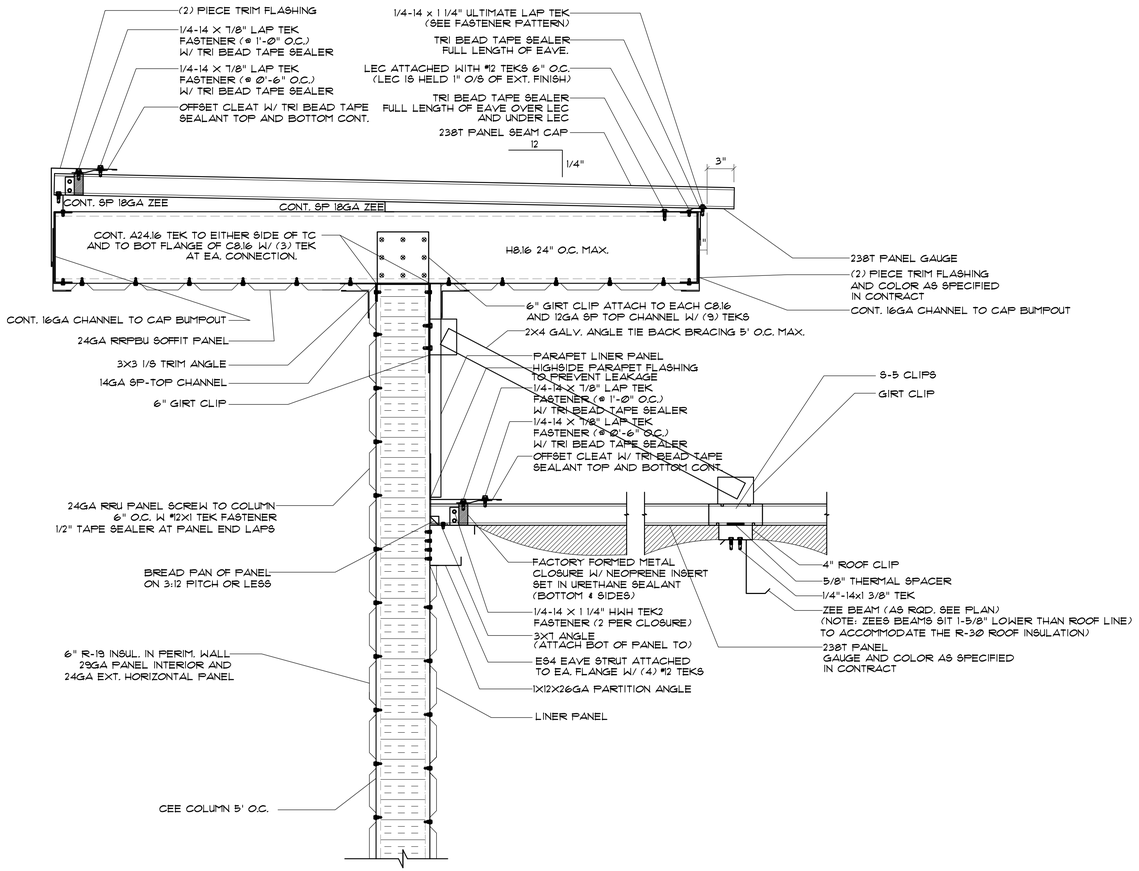
SHEET	

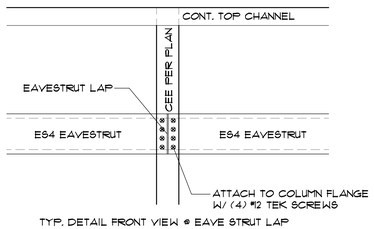
RBS-D1.8



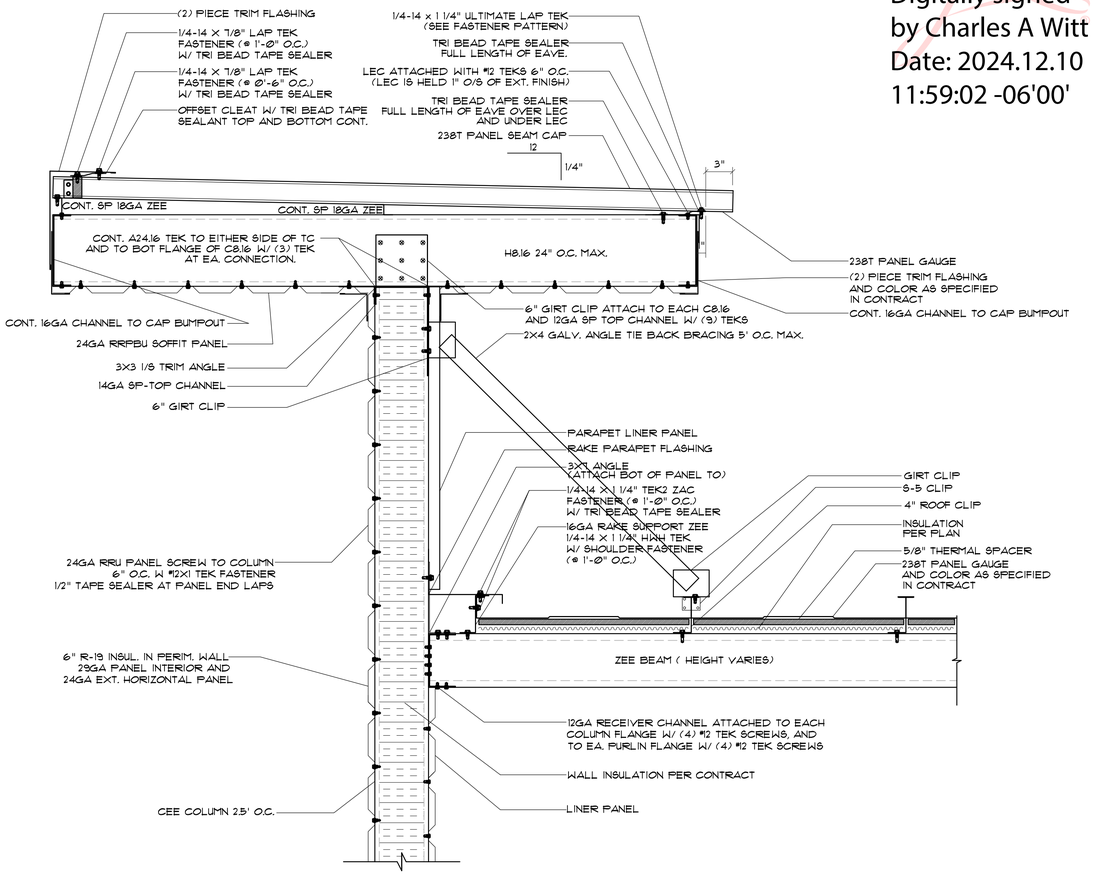
1 D1.9

HIGHSIDE PARAPET WALL SECTION WITH R-30 ROOF INSULATION

SCALE: 1 1/2" = 1'



TYP. DETAIL FRONT VIEW @ EAVE STRUT LAP



2 D1.9

ENDWALL PARAPET WALL SECTION WITH R-30 ROOF INSULATION

SCALE: 1 1/2" = 1'

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 11:59:02 -06'00'

ENGINEERING SOLUTIONS

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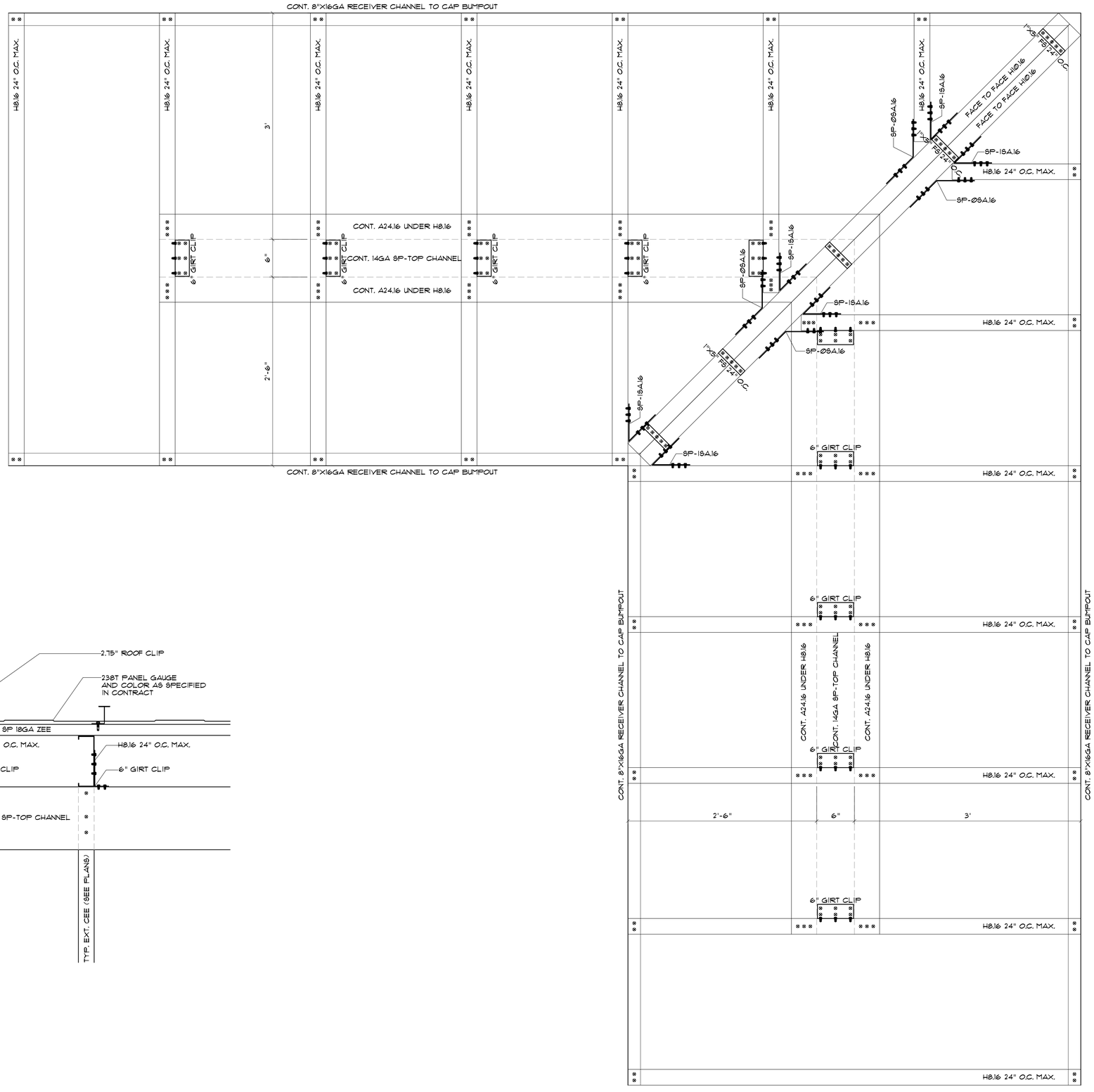
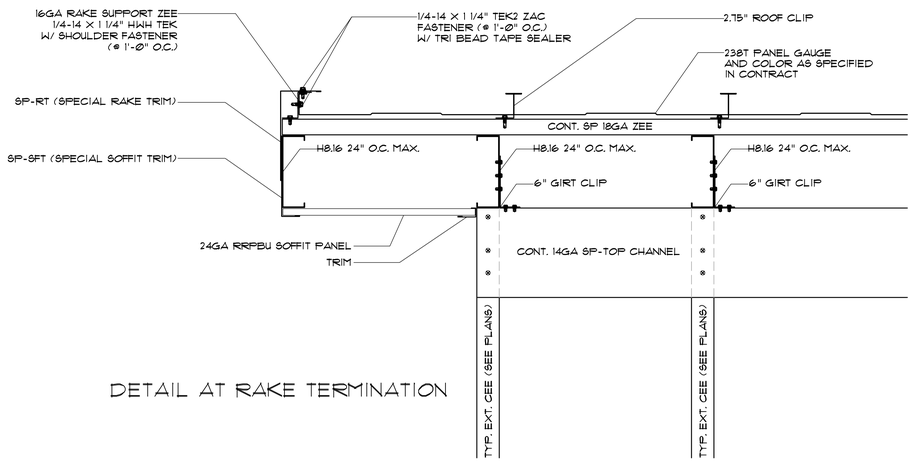
RBS-D1.9





DETAIL AT RAKE TERMINATION

1 D1.10 TYPICAL FRAMING @ CORNER OF BUMPOUT ROOF "TOP VIEW"

SCALE: 1 1/2" = 1'

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 12:01:07 -06'00'

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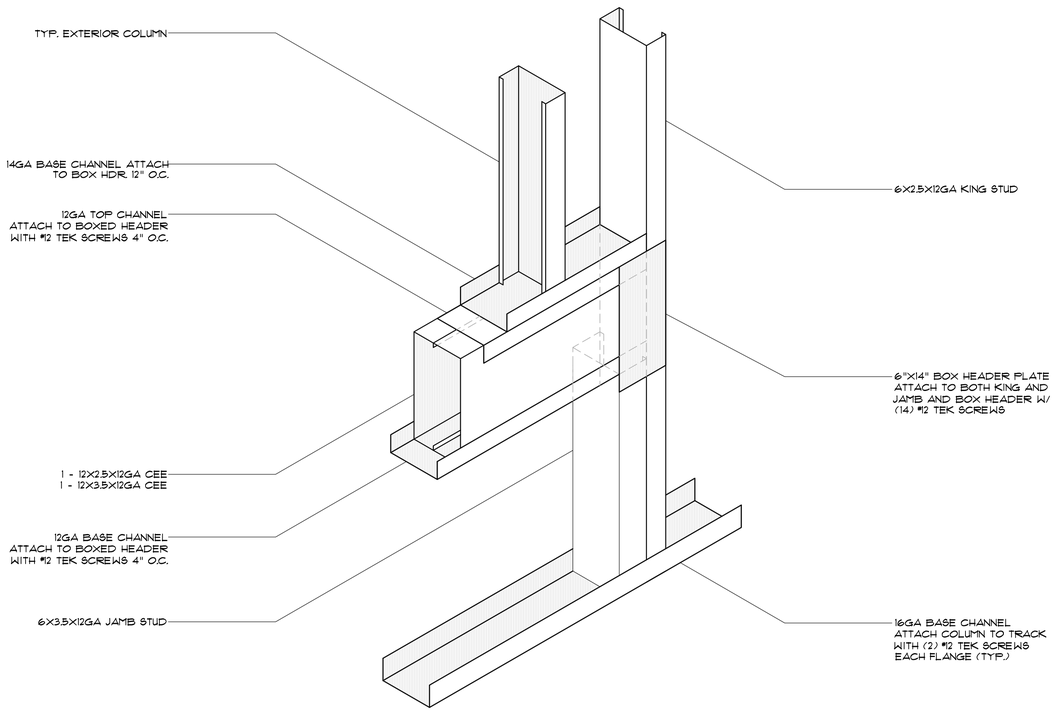
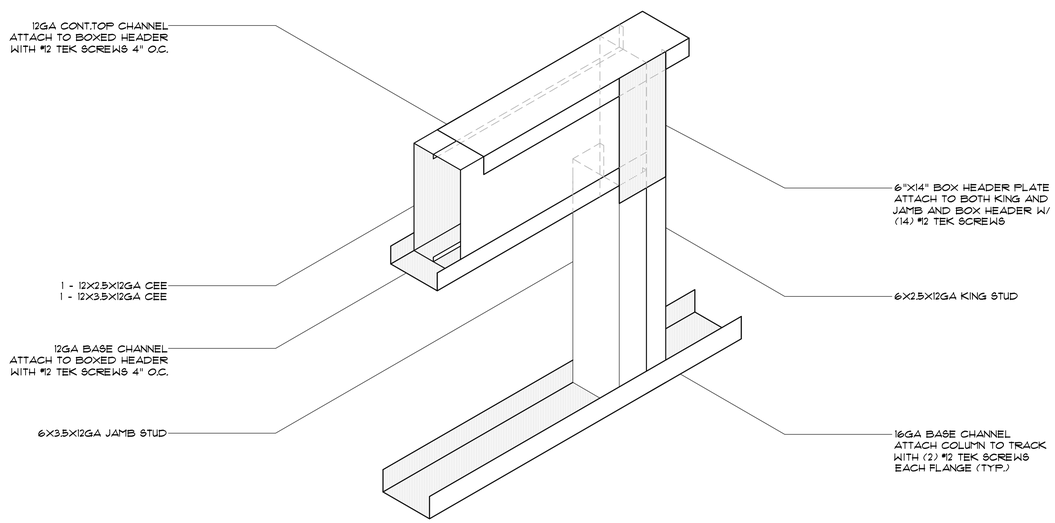
RBS-D1.10



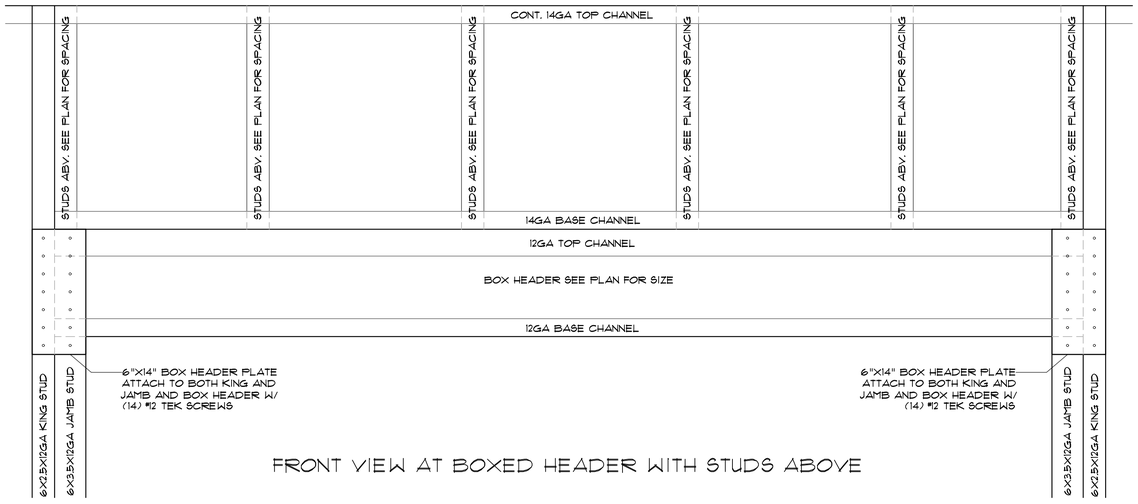
TYPICAL BOXED HEADER DETAILS WITH STUDS ABOVE

SCALE: 1 1/2" = 1'

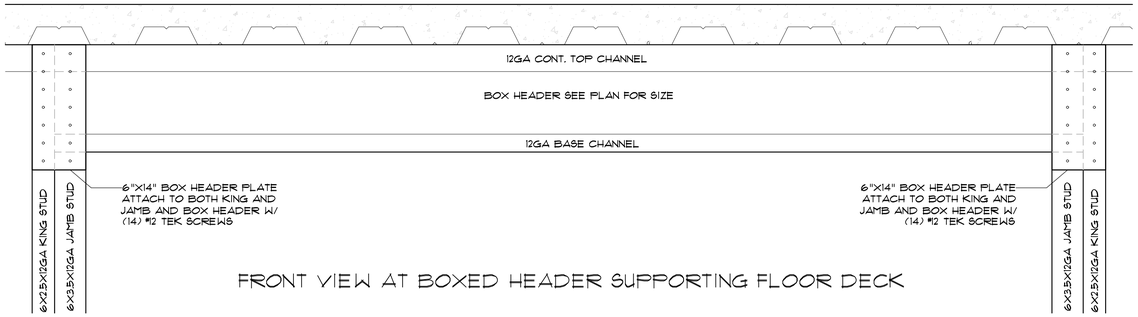


TYPICAL BOXED HEADER DETAILS SUPPORTING FLOOR DECK

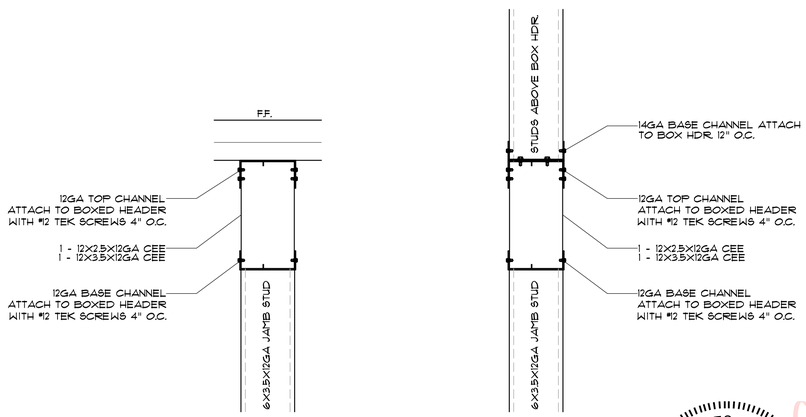
SCALE: 1 1/2" = 1'



FRONT VIEW AT BOXED HEADER WITH STUDS ABOVE



FRONT VIEW AT BOXED HEADER SUPPORTING FLOOR DECK



SIDE VIEW AT BOXED HEADERS

TYPICAL BOXED HEADER DETAILS

SCALE: 1 1/2" = 1'

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 12:04:38 -06'00'

K&W ENGINEERING SOLUTIONS
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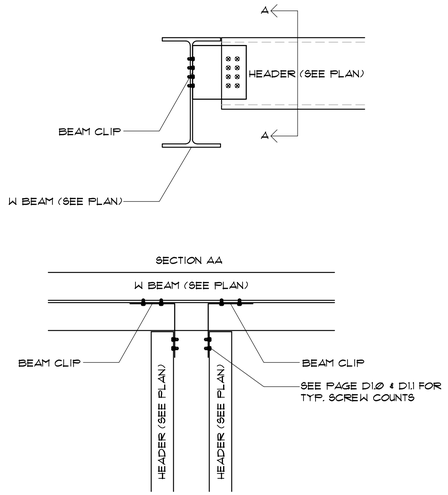
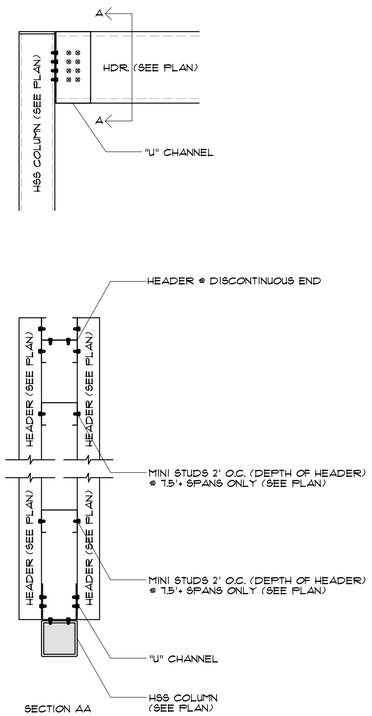
RBS-D1.11



TYPICAL DOUBLE HEADER TO W BEAM CONNECTION

SCALE: 1 1/2" = 1'

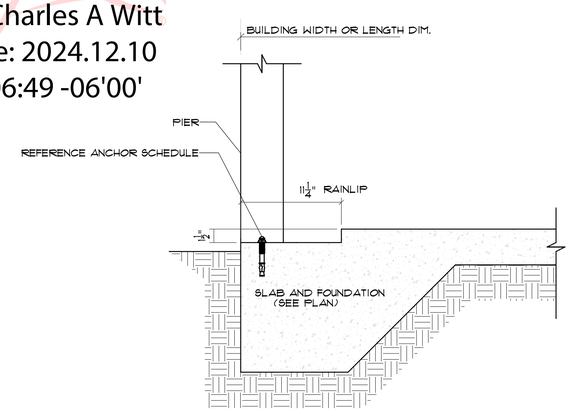


TYPICAL DOUBLE HEADER TO HSS COLUMN CONNECTION

SCALE: 1 1/2" = 1'

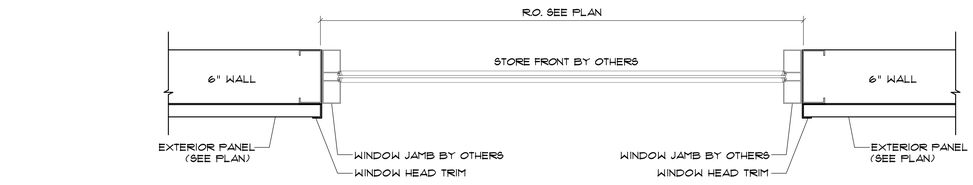
CHARLES A. WITT
LICENSE
No. 83199
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Digitally signed
by Charles A Witt
Date: 2024.12.10
12:06:49 -06'00'

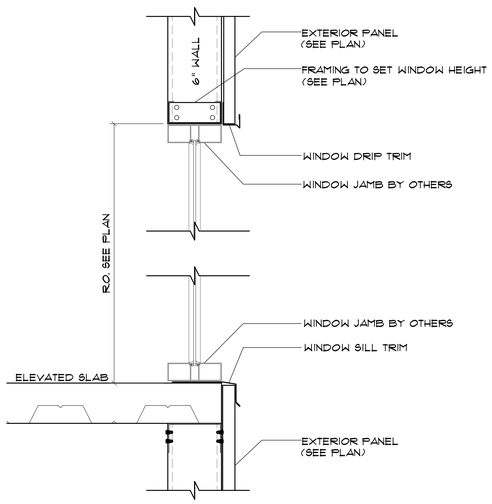


PIER TO FOUNDATION DETAIL

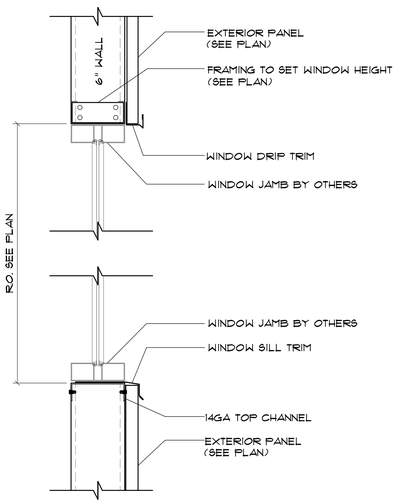
SCALE: 1 1/2" = 1'



TOP VIEW



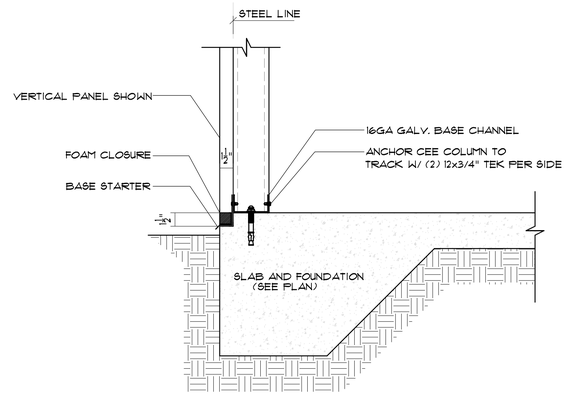
SIDE VIEW



SIDE VIEW

TYPICAL TRIM AROUND WINDOWS

SCALE: 1 1/2" = 1'



PANEL TO SLAB CONNECTION

SCALE: 1 1/2" = 1'

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JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

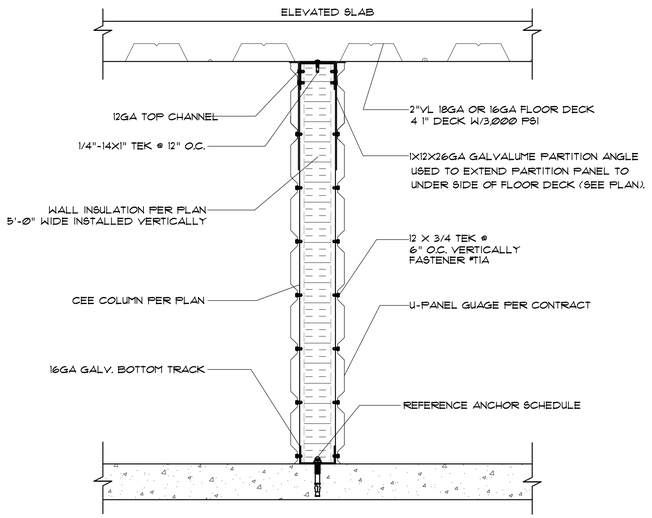
REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

STRUCTURAL DETAILS

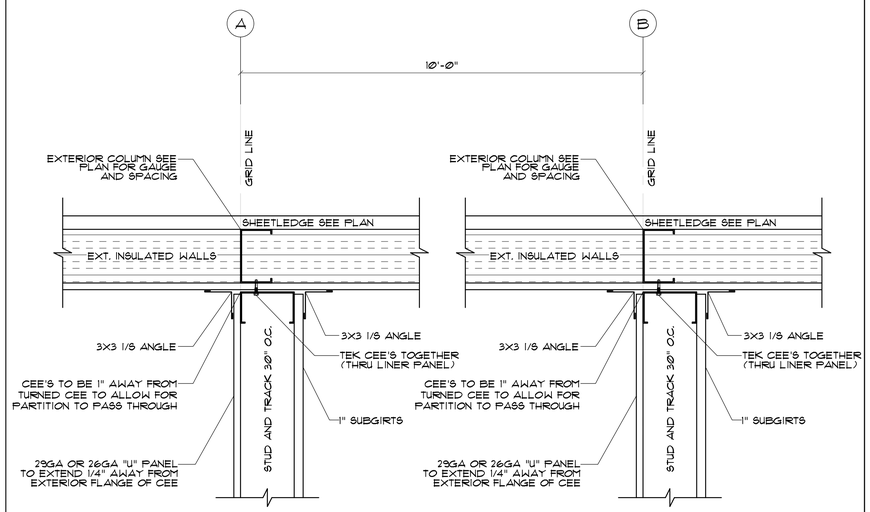
DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-D1.12



INTERIOR INSULATED WALL RUNNING UNDER FLOOR DECK

SCALE: 1 1/2" = 1'



TYPICAL SECTION AT EXTERIOR INSULATED WALL PARTITION INTERSECTION

SCALE: 1 1/2" = 1'

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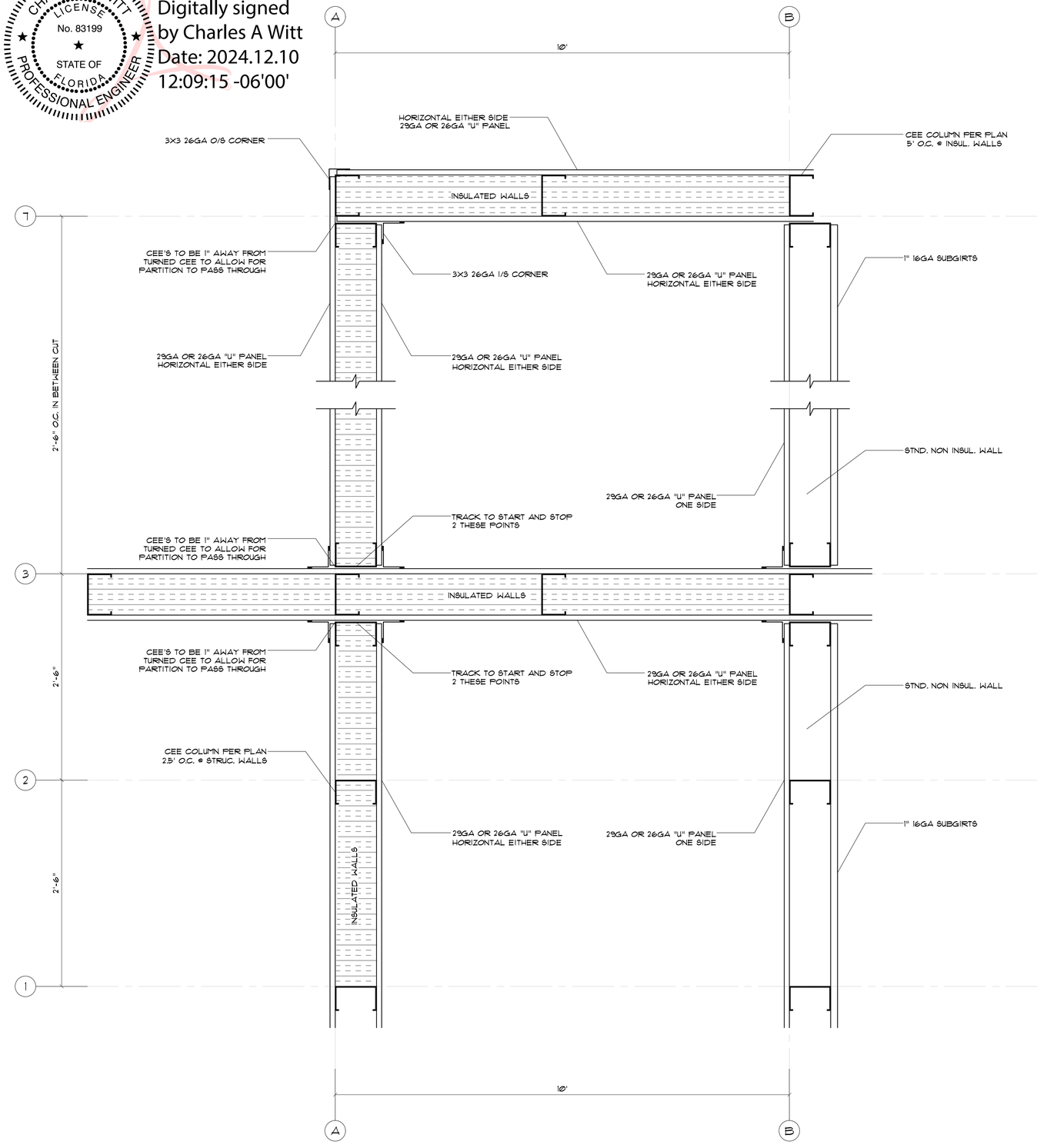
Date: 2024.12.10 12:09:15 -06'00'



TYPICAL SECTION AT BOTTTOM FLOOR INSULATED WALLS (MULTI STORY)

SCALE: 1 1/2" = 1'

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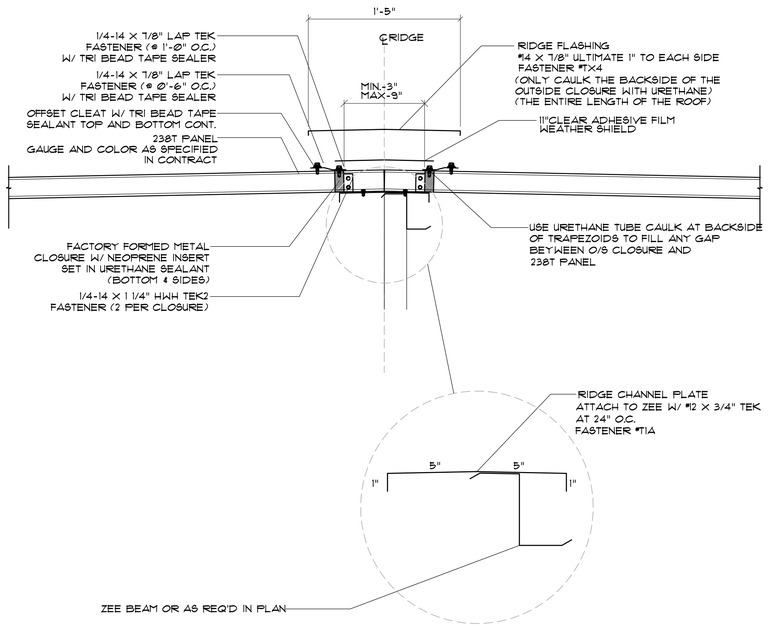
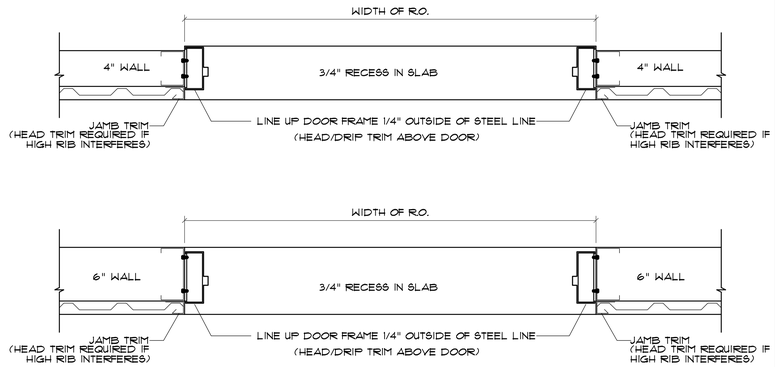


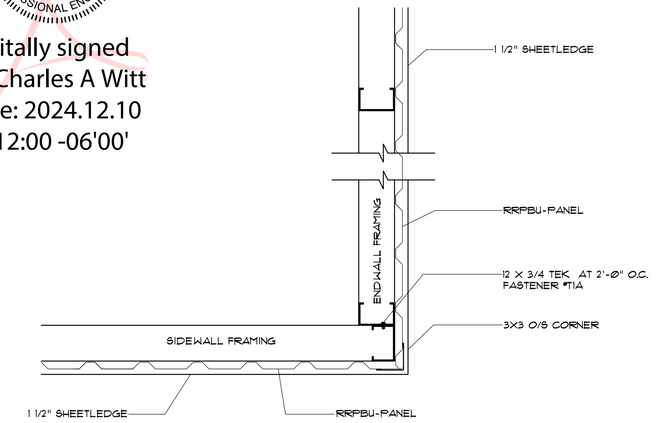
RIDGE SECTION

SCALE: 1 1/2" = 1'



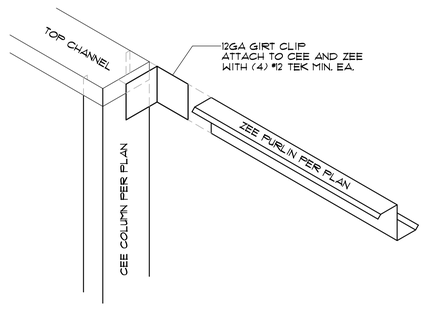
EXTERIOR 4 RECESSED ENTRY PERSONNEL DOOR DETAIL

SCALE: 1 1/2" = 1'



WALL FRAMING VERTICAL EXTERIOR R-PANEL

SCALE: 1 1/2" = 1'



ZEE PURLIN TO INSULATED WALL IN BASE 4 TOP CHANNEL

SCALE: 1 1/2" = 1'

INSTALLATION PROCEDURE

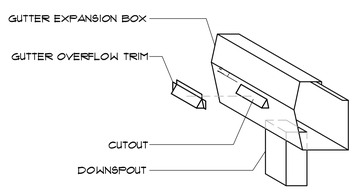
(1) CENTER THE G.E.B. ON THE PIER AND ATTACH REAR FLANGE TO THE ROOF PAN WITH (2) 1/4-14X7/8 EXTENDED LIFE STICH SCREWS 3-4" FROM EACH END FASTENER #TX4. WHEN ATTACHING THE G.E.B. BE SURE THE REAR OF THE G.E.B. IS AGAINST THE FACE OF THE PIER. (EXCEPT ON SHURGARD PROJECTS WHERE THE SPECS REQUIRE A 2" GAP BETWEEN THE REAR OF THE GUTTER AND PIER)

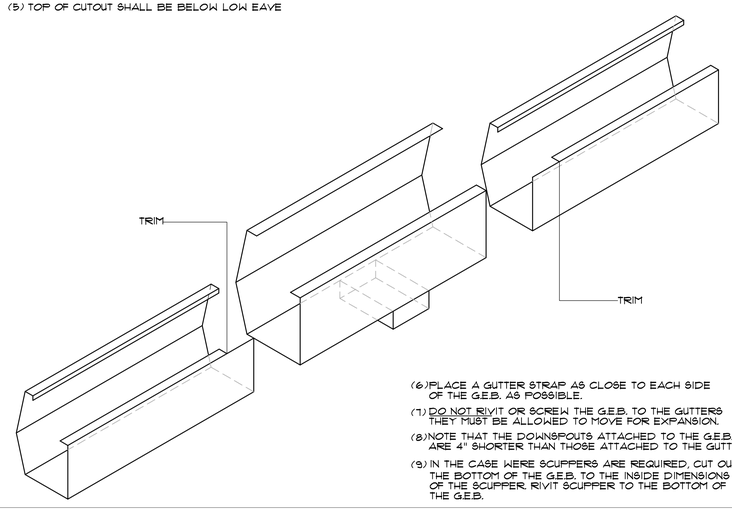
(2) TRIM THE 1" FLANGE OFF BOTH GUTTERS 1" BEYOND WHAT WOULD EXTEND INTO THE EXPANSION BOX.

(3) SLIDE GUTTERS INTO G.E.B. ON BOTH SIDES AND ATTACH TO ROOF SHEETS PER INSTALLATION PROCEDURES.

(4) A 5"x15" CUTOUT SHALL BE CUT AT EVERY DOWNSPOUT AND EXPANSION BOX LOCATION FOR PLACEMENT OF GUTTER OVERFLOW TRIM.

(5) TOP OF CUTOUT SHALL BE BELOW LOW EAVE





(6) PLACE A GUTTER STRAP AS CLOSE TO EACH SIDE OF THE G.E.B. AS POSSIBLE.

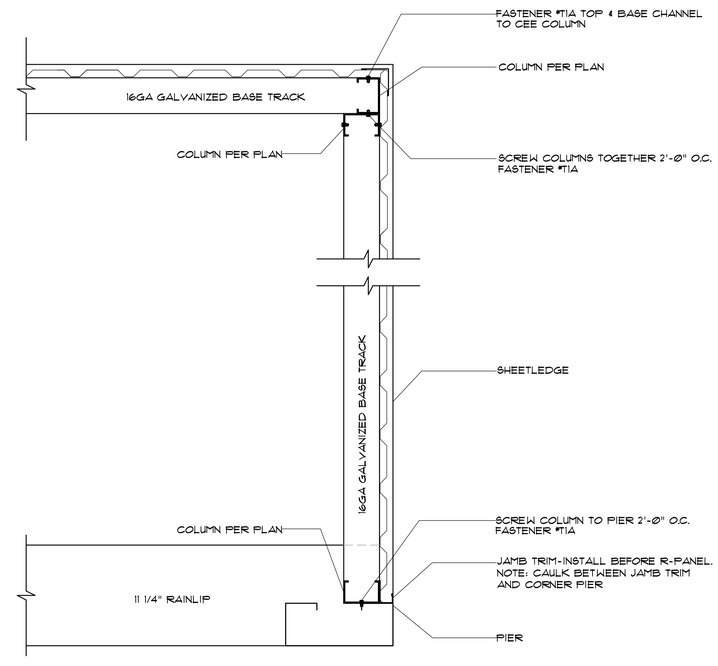
(7) DO NOT RIVIT OR SCREW THE G.E.B. TO THE GUTTERS THEY MUST BE ALLOWED TO MOVE FOR EXPANSION.

(8) NOTE THAT THE DOWNSPOUTS ATTACHED TO THE G.E.B. ARE 4" SHORTER THAN THOSE ATTACHED TO THE GUTTERS.

(9) IN THE CASE WERE SCUPPERS ARE REQUIRED, CUT OUT THE BOTTOM OF THE G.E.B. TO THE INSIDE DIMENSIONS OF THE SCUPPER. RIVIT SCUPPER TO THE BOTTOM OF THE G.E.B.

GUTTER EXPANSION BOX INSTALLATION DETAIL

SCALE: 1 1/2" = 1'



PIER AND HEADER SIDE WALL TO PANELED END WALL 4 REAR SIDE WALL

SCALE: 1 1/2" = 1'

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
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1450 W RAILROAD AVE
MALABAR, FL 32950

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STRUCTURAL DETAILS

DATE	06-17-24
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SCALE	AS NOTED
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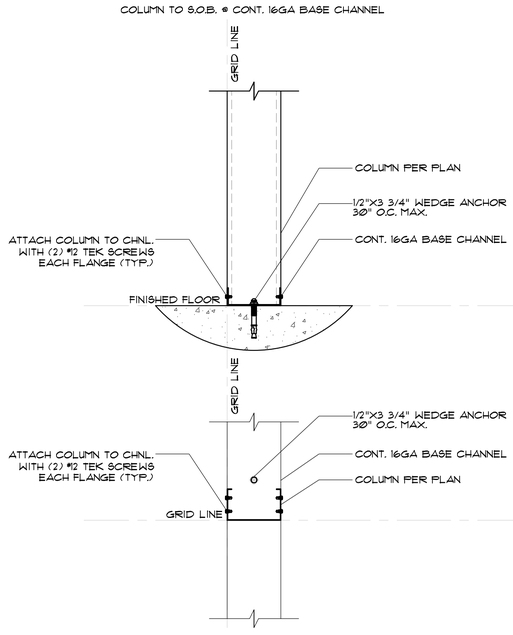

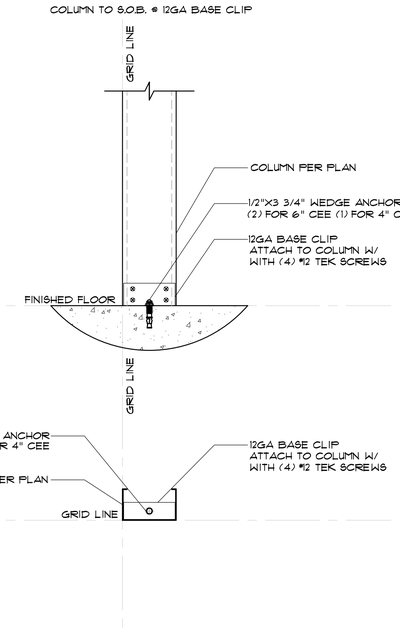

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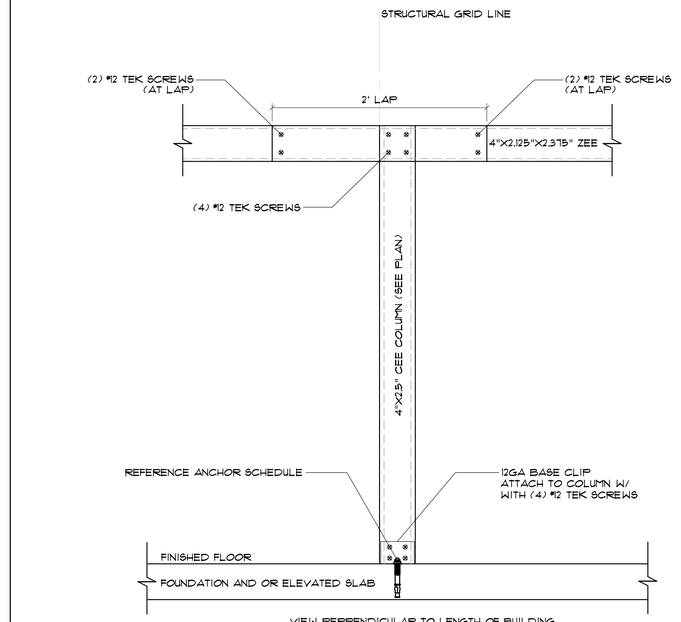
Digitally signed by Charles A Witt
Date: 2024.12.10 12:14:26 -06'00'

TYPICAL COLUMN TO SLAB ANCHORING (SINGLE-STORY)

SCALE: 1 1/2" = 1'



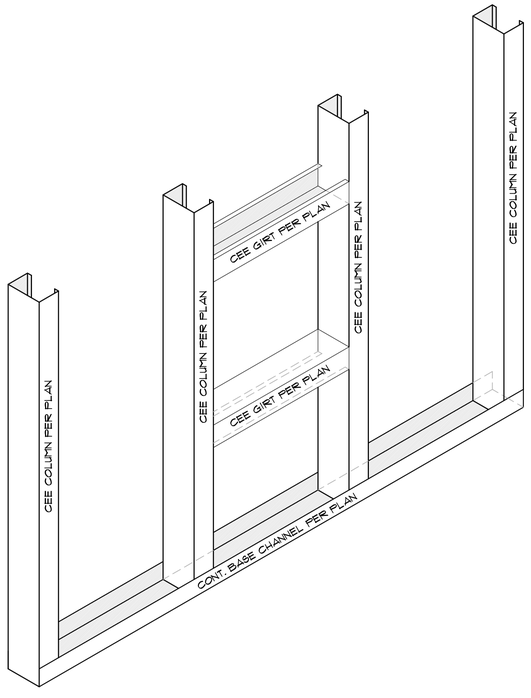
VIEW PERPENDICULAR TO LENGTH OF BUILDING

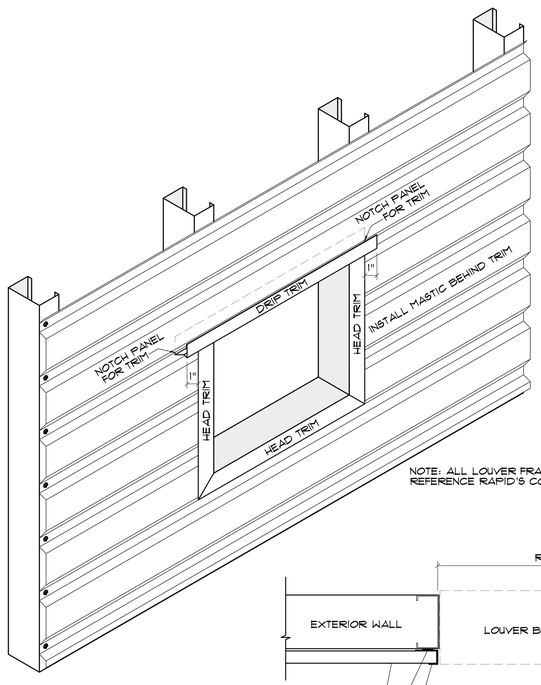
NOTE: GAUGES MAY CHANGE DUE TO LOAD CONDITIONS

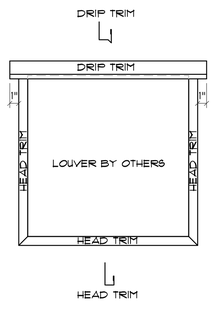
ZEE BEAM COLUMN CONNECTION 4" CEE AND 4" ZEE

SCALE: 1 1/2" = 1'

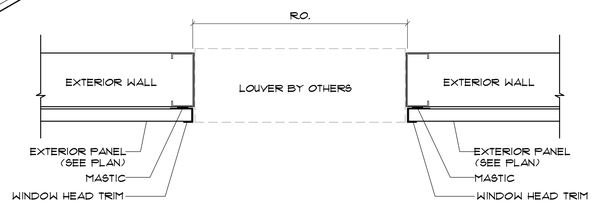
NOTE: USE CEE GIRT IN BETWEEN CEE COLUMNS PER PLAN TO CREATE R.O. FOR LOUVER. LOUVER TO BE INSTALLED FLUSH TO FRAMING.





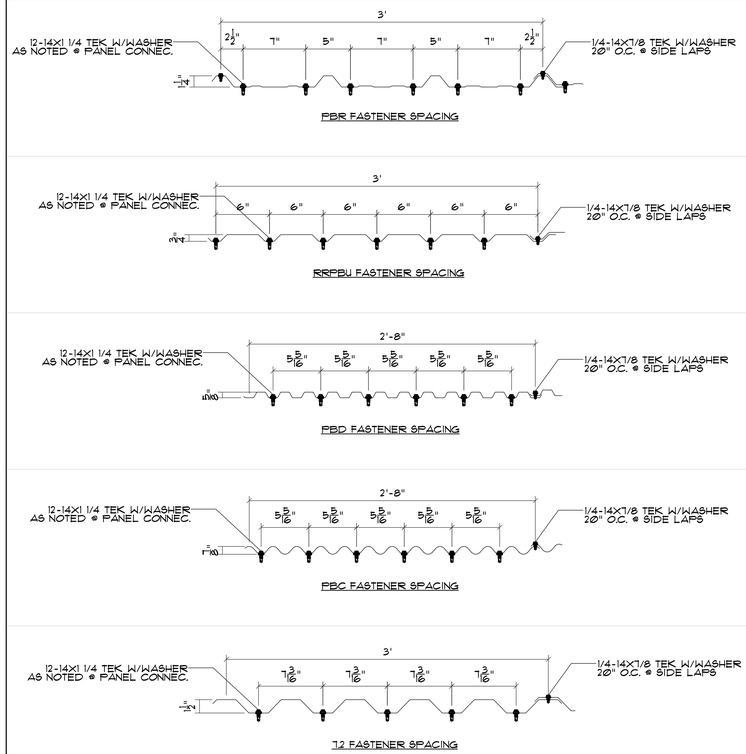


NOTE: ALL LOUVER FRAMING AND TRIM IS NOT INCLUDED. REFERENCE RAPID'S CONTRACT FOR SPECIFICATIONS.



TYPICAL LOUVER FRAMING (LOUVER TO BE PROVIDED BY OTHERS)

SCALE: 1 1/2" = 1'



TYPICAL PANEL SCREW PATTERNS

SCALE: 1 1/2" = 1'

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MALABAR, FL 32950

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SHEET TITLE

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DRAWN BY	DCH
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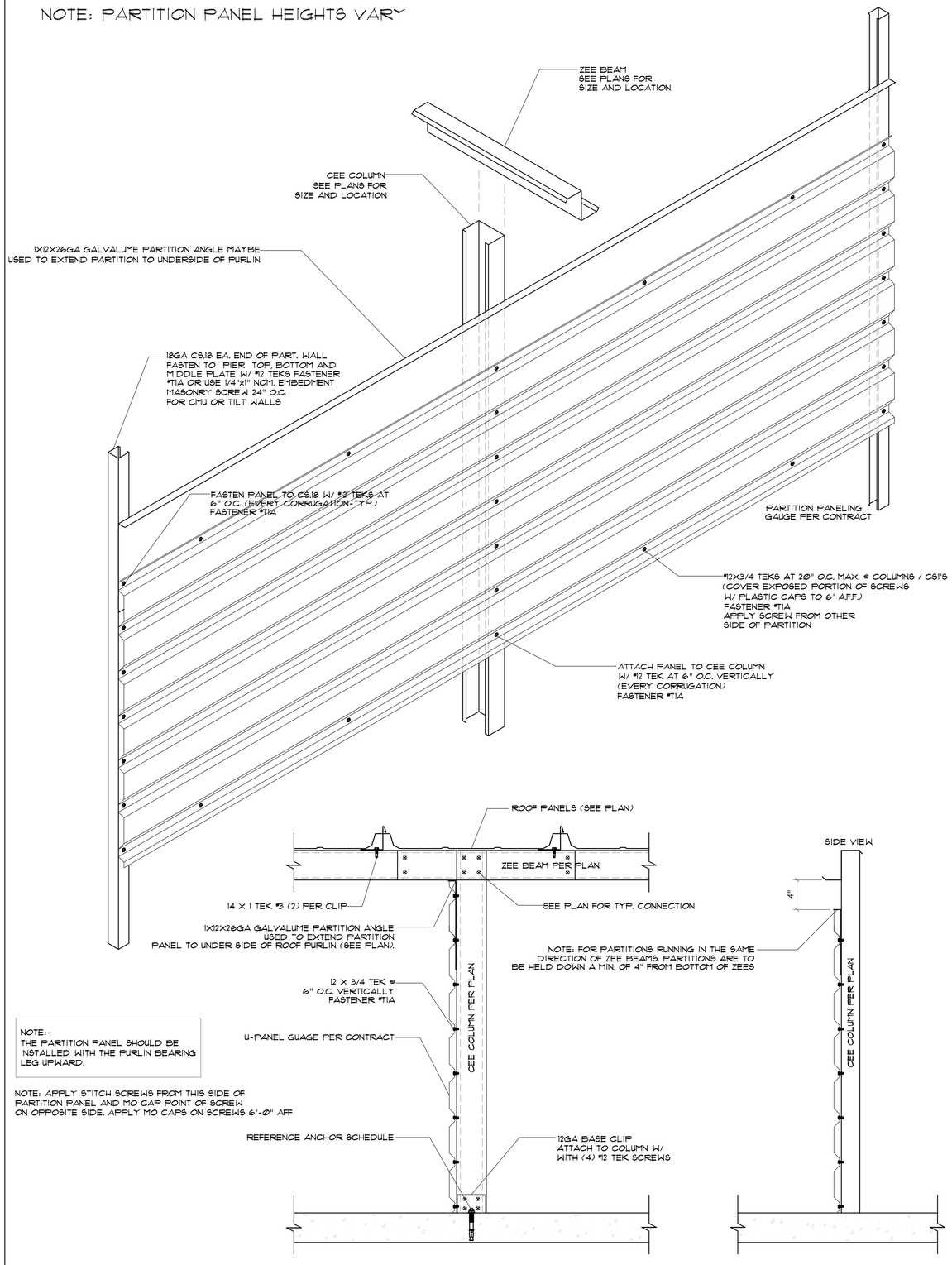
RBS-D1.15

NOTE: PARTITION PANEL HEIGHTS VARY



NOTE:-
THE PARTITION PANEL SHOULD BE INSTALLED WITH THE PURLIN BEARING LEG UPWARD.

NOTE: APPLY STITCH SCREWS FROM THIS SIDE OF PARTITION PANEL AND NO CAP POINT OF SCREW ON OPPOSITE SIDE. APPLY NO CAPS ON SCREWS 6'-0" AFF

BOTTOM OF ROOF TO FINISHED FLOOR
= TO OR LESS THAN 9'-8" 3 SHEETS 4 PARTION ANGLE
GREATER THAN 9'-8" LESS THAN 10'-2" 3 SHEETS 4 PARTITION ANGLE
GREATER THAN 10'-2" LESS THAN 11'-8" 3.5 SHEETS 4 PARTITION ANGLE
GREATER THAN 11'-8" LESS THAN 13'-2" 4 SHEETS 4 PARTITION ANGLE

PARTITION WALL DETAIL PARTITION PANELING - TYPE "U"

SCALE: 1 1/2" = 1'

CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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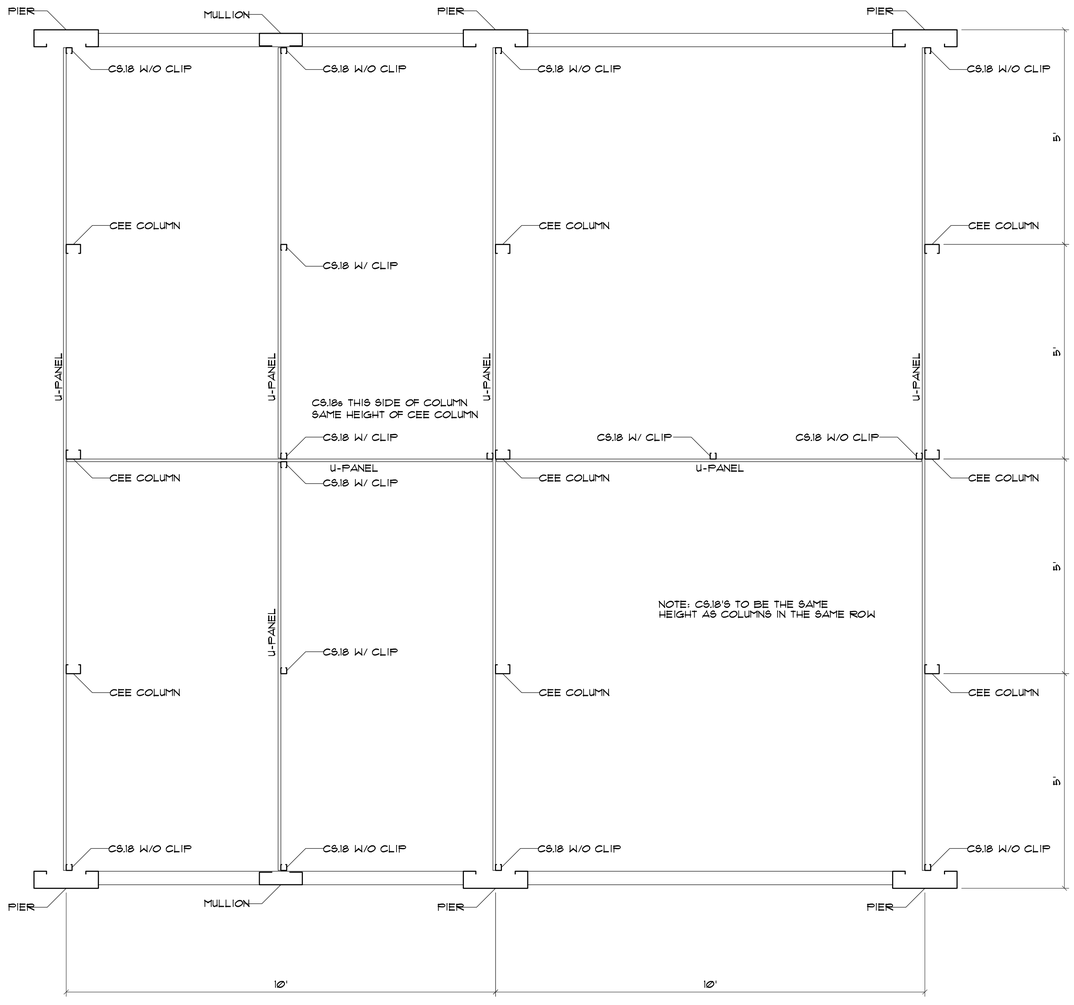
Date: 2024.12.10 12:16:54 -06'00'



GENERIC FRAMING FOR PARTITIONS

WITH CROSS PARTITIONS (N.T.S.)

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SHEET	

RBS-D1.16

GENERAL

1. THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION.
3. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH.
4. THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED AND SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
5. ALL SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED VIA ELECTRONIC MEDIA (I.E. PDF OR DWF FORMAT). HARD COPY SUBMITTALS WILL NOT BE ACCEPTED. SUBMITTALS SHALL NOT BE SECURED IN ANY FORMAT THAT WILL PREVENT COMMENTS FROM BEING ADDED.
6. ANY SUBMITTALS RECEIVED BY ARCHITECT/ENGINEER THAT HAVE NOT BEEN CHECKED BY THE GC AND HIS SUBCONTRACTOR SHALL BE RETURNED WITHOUT REVIEW.
7. ALL SECTIONS AND DETAILS SHALL BE CONSTRUED TO BE TYPICAL OR SIMILAR UNLESS ANOTHER SECTION OR DETAIL IS NOTED.
8. ANY CONFLICTS NOTICED, OR OBSERVED, BETWEEN THE WRITTEN SPECIFICATIONS AND THE CONSTRUCTION DOCUMENTS DURING PROJECT BIDDING OR PROJECT CONSTRUCTION SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD. IF SUCH DISCREPANCY IS NOT NOTICED OR BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD FOR WRITTEN CLARIFICATION, THE CONTRACTOR/SUBCONTRACTOR SHALL PROVIDE, AT PROJECT BID OR DURING PROJECT CONSTRUCTION, THE MORE STRINGENT AND/OR MORE COSTLY OF THE TWO ITEMS IN THE BID AND/OR FINAL INSTALLATION.
9. GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL SUPPLY ALL SUB-CONTRACTORS WITH THE STRUCTURAL GENERAL NOTE SHEETS AS WELL AS THE STRUCTURAL DRAWINGS.
10. THE CONTRACTORS MEANS AND METHODS SHALL FULLY CONFORM TO THE REQUIREMENTS OF SEI/ASCE 37 (DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION) UNTIL ALL OF THE STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE RECEIVED THE INSPECTORS APPROVAL.
11. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF COVERINGS. ROOF COVERINGS FOR ENHANCED HURRICANE PROTECTION AREA (EHPA) FACILITIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ASTM AND FACTORY MUTUAL STANDARDS FOR MATERIALS AND WIND UPLIFT FORCES. ROOFS SHALL BE INSPECTED BY A LICENSED ENGINEER, ARCHITECT AND A REPRESENTATIVE OF THE ROOFING MANUFACTURER AND REPORTS SHALL BE SUBMITTED TO THE OWNER AND ARCHITECT.

FOUNDATIONS

1. A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY-STANDARD SOIL DENSITY TESTS TO ENSURE CONFORMANCE WITH GEOTECHNICAL SOILS REPORT. SUBMIT REPORTS TO ARCHITECT AND ENGINEER.
2. CONTRACTOR, IN CONJUNCTION WITH GEOTECHNICAL FIELD REPRESENTATIVE, SHALL DETERMINE IF ANY UNSUITABLE CONDITIONS ARE DISCOVERED DURING EXCAVATION WHICH WOULD PREVENT ATTAINMENT OF THE DESIGN SOIL PRESSURE RECOMMENDED BY THE SOILS REPORT.
3. FOR FOUNDATION DESIGN VALUES, SEE FOUNDATION SCHEDULE.
4. FOOTINGS SHALL BE CAST TO THE SCHEDULED SIZE AND SHALL NOT BE OVERSIZED BY MORE THAN 6" ON ANY SIDE FOR FOOTING WIDTH OF AT LEAST 6'-0". FOR FOOTINGS LESS THAN 6'-0" IN WIDTH THE MAXIMUM OVERSIZING SHALL BE 3".
5. CONTRACTOR SHALL BE PREPARED FOR AND SHALL INCLUDE COST OF FORMING FOUNDATIONS SHOULD THE EARTH NOT PROVIDE ADEQUATE BANK STABILITY.

SLAB ON GRADE

1. UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, COMPACT INTERIOR FILL TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557). SOIL COMPACTION SHALL BE FIELD-CONTROLLED BY A REPRESENTATIVE TECHNICIAN OF A QUALIFIED LABORATORY. EACH LAYER OF FILL SHALL NOT EXCEED 12" THICK AND SHALL BE COMPACTED PRIOR TO PLACEMENT OF NEXT LAYER.
2. MAXIMUM SPACING OF CONTROL JOINTS (I.E. SAWCUT JOINT OR CONSTRUCTION JOINT) SHALL BE AS SET IN THE TABLE BELOW, OR AS NOTED ON PLANS. THE MORE STRINGENT SHALL APPLY. PATTERNS SHALL BE APPROXIMATELY SQUARE WITH A RATIO OF LONG SIDE TO SHORT SIDE NOT EXCEEDING 1.5 TO 1. SEE SLAB-ON-GRADE DETAILS FOR ADDITIONAL INFORMATION.

SLAB THICKNESS (IN)	3/4" OR LARGER AGGREGATE SPACING (FT)
4"	12'
5"	13'
6"	14'
7" AND GREATER	15'

MIX DESIGNS CONTAINING AGGREGATE LESS THAN 3/4" ARE NOT ACCEPTABLE

3. GENERAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF SJ'S AND CJ'S WITH ARCHITECTURAL FLOOR FINISHES TO ENSURE SLAB JOINTS DO NOT READ THROUGH.

CONCRETE AND REINFORCING

1. A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD TESTING INCLUDING SLUMP TESTS AND CYLINDER BREAKS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.
2. CONCRETE WORK SHALL CONFORM TO ACI 318-11 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
3. ALL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES.

LOCATION	28 DAY STRENGTH	SLUMP	COARSE AGGREGATE(S)
SLAB-ON-GRADE	4,000 PSI	4"+-1"	1 1/2"
RETAINING WALL	4,000 PSI	4"+-1"	1"
TIE BEAMS	4,000 PSI	4"+-1"	3/4"
TIE COLUMNS	3,000 PSI	4"+-1"	3/4"
CAST-IN-PLACE BEAMS	4,000 PSI	4"+-1"	1"
CAST-IN-PLACE COLUMNS	4,000 PSI	4"+-1"	1"
EQUIPMENT SUPPORTS	4,000 PSI	4"+-1"	1"
TILT-UP PANELS	4,000 PSI	4"+-1"	1 1/2"
GROUT UNDER TILT-UP PANELS	5,000 PSI	8"+-1"	3/8"
ELEVATED SLABS FORMED AND POURED	4,000 PSI	4"+-1"	1"
ELEVATED SLABS FORMED W/ METAL DECK	3,000 PSI	4"+-1"	1"
FILLED CELL, PRECAST LINTELS & BOND BEAM GROUT	2,500 PSI	8"+-1"	3/8"

NOTES:
1. SLUMP FOR RAMPS AND SLOPING SURFACES SHALL NOT EXCEED 4"
2. ALL SLAB MIXES SHALL HAVE A MAXIMUM SAND TO TOTAL AGGREGATE RATIO Ø.50.
3. A 2" OR 3" PUMP SHALL BE ACCEPTABLE FOR COLUMNS, CELL FILL AND TIE BEAMS BUT WILL NOT BE ALLOWED FOR FOUNDATIONS, SLABS, TILT-UP PANELS AND CONCRETE BEAMS.
4. READY MIX SUPPLIER SHALL DESIGN THE MIXES THAT CONTAIN MULTIPLE AGGREGATES TO BE WELL GRADATED.
5. SLABS SHALL NOT BE AIR ENTRAINED.
6. FOR SLABS THAT SHALL RECEIVE MOISTURE SENSITIVE FLOORING:
- CONTRACTOR SHALL WORK WITH THE READY MIX SUPPLIER TO PROVIDE A MIX DESIGN THAT WILL BE AT OR BELOW 75% RELATIVE HUMIDITY AT THE TIME THE FLOORING IS SCHEDULED TO BE INSTALLED.
- DO NOT USE LIGHTWEIGHT AGGREGATES.
- PROVIDE A MIX WITH GOOD SELF-DESICCATING PROPERTIES. CONSIDER ADDING 2%-4% SILICA FUME.
- DO NOT HARD TROWEL THE SURFACE BUT INSTEAD PROVIDE A LIGHTLY TROWELLED SURFACE.

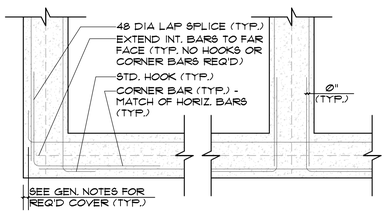
1. CONCRETE MIX DESIGN SUBMITTALS

- EACH MIX DESIGN SHALL BE LABELED TO INDICATE THE AREA IN WHICH THE CONCRETE IS TO BE PLACED (I.E. FOUNDATIONS, SLAB-ON-GRADE, COLUMNS, ETC.) FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS.
- PROPOSED MIX DESIGN SHALL BE IN ACCORDANCE WITH METHOD 1 OR METHOD 2 OF ACI 301. PROVIDE SUPPORTING DATA IN TABULAR FORM FOR EACH SEPERATE PROPOSED MIX.
- SUBMIT CONCRETE MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE.

2. REBAR SHALL CONFORM TO ASTM-615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO A-185 AND SHALL BE LAPPED MINIMUM ONE MESH +2" WHERE SPLICED. ALL REINFORCING SHALL BE DOMESTICALLY PRODUCED. ALL REBAR THAT IS TO BE WELDED SHALL BE LOW ALLOY ASTM A706 GRADE 60.
3. SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

- WELDED WIRE FABRIC: 8"
- ALL OTHER:
- #6 BAR & SMALLER: 48 DIA (12" MIN)
- #7 BAR & LARGER: 60 DIA

4. REINFORCEMENT IN WALLS, FOOTINGS AND BEAMS SHALL BE CONTINUOUS AND LAPPED 48 BAR DIA AT SPLICE UNLESS NOTED OTHERWISE. HOOK AND LAP ALL CORNER AND INTERSECTING BARS. (SEE REINF DEVELOPMENT DETAIL BELOW).



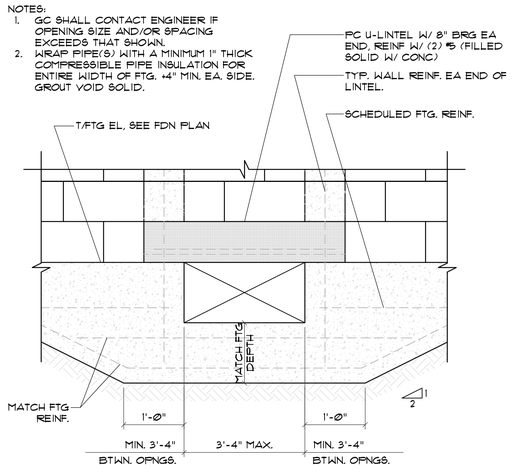
REINF. DEVELOPMENT DETAIL

SCALE: N.T.S.

5. COVER FOR REINFORCING SHALL BE AS FOLLOWS

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THRU #18 BARS: 2" #5 BAR, W31 OR D31 WIRE AND SMALLER: 1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS, JOISTS: #14 AND #18 BARS: 1 1/2" #11 BAR AND SMALLER: 3/4" BEAMS, COLUMNS: PRIMARY REINF., TIES, STIRRUPS, SPIRALS: 1 1/2"

6. FOOTING PENETRATION DETAILS

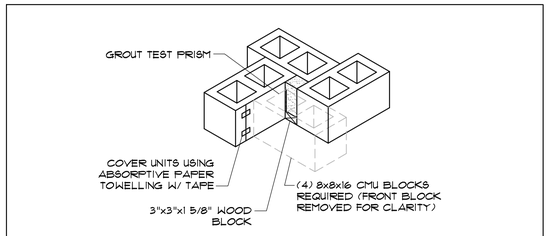


FOOTING PENETRATION DETAIL

SCALE: N.T.S.

MASONRY

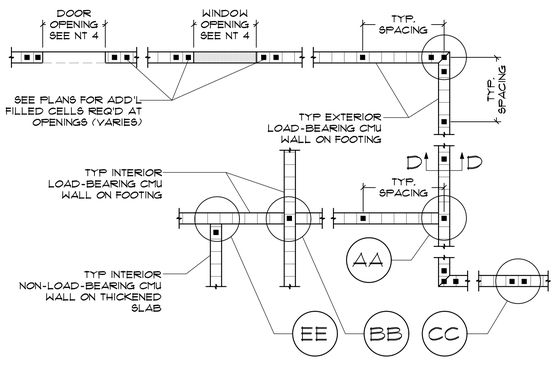
1. MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO THE LATEST EDITION OF THE ACI BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 530-11, ASCE 5-11, TMS 402-11), SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-11, ASCE 6-11, TMS 602-11) ASTM C476-02, ASTM C1019-09 AND NCMA TEK 10-1.
2. CONCRETE BLOCKS SHALL CONFORM TO ASTM C-90 (f'm = 1500 PSI) (1900 PSI ON THE NET AREA).
3. MORTAR SHALL COMPLY WITH ASTM C270, TYPE "M" FOR RETAINING WALLS AND WALLS BELOW GRADE, TYPE "S" FOR TYPICAL WALLS. (COMPRESSIVE STRENGTH = 2500 PSI AND 1800 PSI, RESPECTIVELY. SITE TESTED MORTAR CUBES SHALL ACHIEVE A MINIMUM OF 80% OF THE DESIGN COMPRESSIVE STRENGTH).
4. BLOCK SHALL NOT BE MOISTENED BEFORE GROUTING.
5. ALL MASONRY CROSS WEBS SHALL BE FULLY BEDDED IN MORTAR AROUND CELLS TO BE GROUTED.
6. REINFORCE WALLS WITH LADDER TYPE (ASTM A-153, #9 GAUGE WIRE) DEFORMED REINFORCEMENT EQUAL TO DUR-O-WAL IN BED JOINTS AT 16" O.C. U.N.O., MEASURED VERTICALLY. PLACE PER THE MFR'S INSTRUCTIONS. LAP ALL HORIZONTAL JOINT REINFORCING 6" MIN.
7. VERTICAL REINFORCING MUST HAVE A MINIMUM CLEARANCE OF 1/2" TO INSIDE FACE. VERTICAL REINFORCEMENT IN WALLS SHALL BE SECURED AND LATERALLY SUPPORTED AGAINST DISPLACEMENT AT INTERVALS NOT EXCEEDING 192 X (BAR DIAMETER) OR 10 FT (WHICHEVER IS LESS) WHENEVER A CLEAN-OUT IS REQUIRED. SEE GROUTING DETAIL NOTE FOR CLEAN-OUT REQUIREMENTS.
8. GROUT PLACEMENT STOPPED FOR (1) HOUR OR MORE SHOULD BE STOPPED 1 1/2" BELOW THE TOP OF THE MASONRY UNIT TO PROVIDE A KEY FOR SUBSEQUENT GROUTING.
9. TYPICAL VERTICAL REINFORCING SIZE AND SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
10. TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. REINFORCE MASONRY OPENINGS LESS THAN 2'-0" WIDE, WITH HORIZ. JOINT REINF PLACED IN (2) HORIZ JOINTS APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE GROUT FILLED LINTEL AND IMMEDIATELY BELOW THE GROUT FILLED SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS.
12. PROVIDE FILLED PRECAST U-LINTELS AS MANUFACTURED BY CAST-CRETE OR APPROVED EQUAL WITH (2) #5 CONT. AT ALL OPENINGS WHERE BEAMS ARE NOT SHOWN, SCHEDULED OR NOTED GREATER THAN 2'-0" WIDE. LINTELS SHALL HAVE MINIMUM UNFILLED CAPACITY OF 400 LB/LF AND BEAR NOMINAL 8" (MIN 6") EACH END ON A GROUT FILLED CELL. PROVIDE PRE-CAST LINTEL MFR'S STANDARD TABULATED LOAD TABLES AS EVIDENCE THAT THE MINIMUM CAPACITIES AS LISTED IN THE BEAM SCHEDULE ARE SATISFIED. REFER TO MASONRY WALL BEAM SCHEDULE FOR TYPICAL PRECAST LINTEL SPANS AND DETAILS.
13. STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY. REMOVE LOOSE MASONRY UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
14. DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
15. DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
16. EXTEND VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI 90 DEGREE HOOK IF ROOF JOISTS AND/OR TRUSSES BEAR ON TOP OF WALL AND THERE IS NO PARAPET. IF PARAPET EXISTS, HOOK IS NOT REQUIRED.
17. REFER TO ARCHITECTURAL DRAWINGS FOR WATERPROOFING DETAILS AT MASONRY CONTROL JOINTS.
18. JOB SITE MIXING OF GROUT SHALL NOT BE PERMITTED. TESTING SHALL CONFORM TO ASTM C1019. SEE TEST MOLD DETAIL BELOW. SEE THE SCHEDULE UNDER CONCRETE NOTES FOR COMPRESSIVE STRENGTH AND SLUMP REQUIREMENTS.



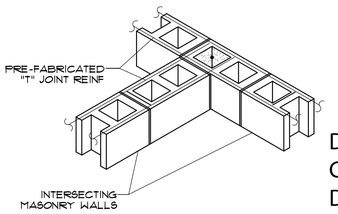
MASONRY GROUT DETAIL - TEST MOLD (ASTM C-1019)

SCALE: N.T.S.

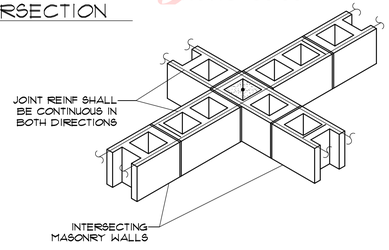
19. TYPICAL MASONRY DETAILS



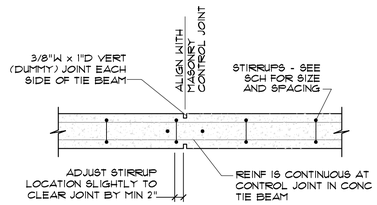
NOTES:
1. SEE DETAIL "CC" FOR LOCATING MASONRY CONTROL JOINTS. CONTRACTOR SHALL SUBMIT MCJ PLAN TO ARCHITECT FOR APPROVAL.
2. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
3. SEE FDN PLAN NOTES FOR REINFORCED FILLED CELL SIZE AND SPACING
4. MULTIPLE FILLED CELLS MAY BE REQUIRED AT JAMBS. ADDITIONAL BARS WILL BE SHOWN ON PLANS. IF NOONE ARE SHOWN, THEN A SINGLE TYPICAL REINFORCED JAMB IS SUFFICIENT.
5. SEE MASONRY NOTES ON GENERAL NOTE SHEETS FOR HORIZONTAL JOINT REINFORCING AND OTHER ADDITIONAL INFORMATION.



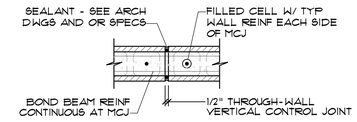
AA WALL INTERSECTION



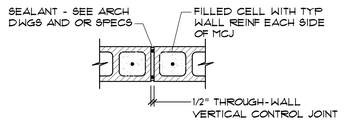
BB WALL INTERSECTION



MCJ @ TIE BEAM

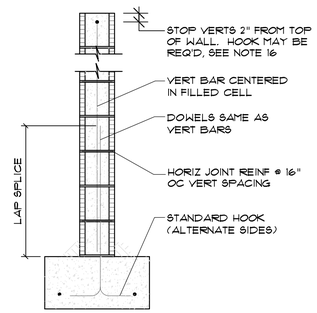


MCJ @ BOND BEAM



NOTES:
1. THROUGH-WALL JOINT SHALL BE CONTINUOUS WITHOUT INTERRUPTION FROM FOUNDATION TO TOP OF WALL.
2. TERMINATE TYPICAL HORIZONTAL JOINT REINFORCING 2" FROM JOINT.
3. MAXIMUM SPACING OF CONTROL JOINTS SHALL BE 1 1/2 x (WALL HEIGHT) OR 25'-Ø", WHICHEVER IS LESS.

CC MAS CONTROL JOINT (MCJ)



DD TYPICAL FILLED CELL DETAILS

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 12:19:13 -06'00'

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JOB NUMBER: 583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

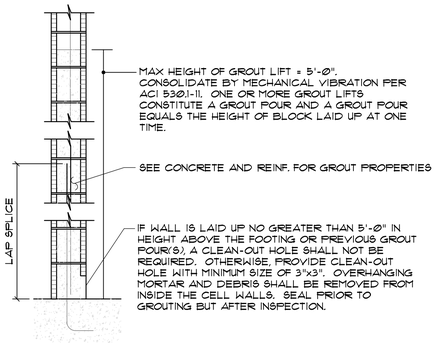
SHEET TITLE

FOUNDATION SPECIFICATIONS

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-F0.1

GROUT FOR FILLED CELLS SHALL BE PLACED IN CONFORMANCE WITH ACI 530.1-11 AND AS INDICATED BELOW:



NOTES:

1. BUTTER AROUND ALL CELLS THAT ARE TO BE FILLED WITH GROUT TO ENSURE GROUT DOES NOT LEAK OUT.
2. DO NOT GROUT UNTIL MORTAR HAS SET SUFFICIENTLY TO WITHSTAND THE PRESSURE OF THE GROUT. WAIT NOT LESS THAN 24 HOURS.
3. PLACE GROUT WITHIN 90 MINUTES FROM INTRODUCING WATER IN THE MIXTURE AND PRIOR TO INITIAL SET.
4. MAXIMUM WALL HEIGHT FROM TOP OF FOOTING OR PREVIOUS GROUT POURS LAID UP AT ONE TIME SHALL BE 4'-0".
5. THE MINIMUM CONTINUOUS UNOBSTRUCTED CLEAR AREA IN CELL TO RECEIVE GROUT MUST BE NOT LESS THAN 3"x3". MORTAR FINS MUST BE REMOVED AS BLOCK PLACEMENT PROCEEDS. MORTAR DROPPINGS MUST BE KEPT OUT OF CELLS WHICH ARE TO BE GROUTED.

GROUTING DETAIL

SCALE: N.T.S.

MINIMUM LAP SPLICES FOR REINFORCED CMU.

CMU WALL WITH CENTERED VERTICAL REINFORCING					
#4	#5	#6	#7	#8	
13"	21"	31"	42"	63"	

SPECIALTY ENGINEERING REQUIREMENTS

1. STEEL PANS STAIRS SHALL BE DESIGNED BY FABRICATORS SPECIALTY ENGINEER AND SHALL INCLUDE STRINGERS, TREADS, HAND RAILINGS, PLATFORMS (AS REQUIRED), PAN INSERTS AND MISCELLANEOUS SUPPORTS AND CONNECTIONS. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED, DATED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION. MINIMUM DESIGN LIVE LOAD SHALL BE 100 PSF. SUBMITTALS SHALL INCLUDE THE JOINTING IN THE CONCRETE FILL AS REQUIRED TO MITIGATE PLASTIC SHRINKAGE CRACKING.
2. GUARDRAILS, HANDRAILS, POSTS AND SUPPORT CONNECTIONS SHALL BE DESIGNED BY THE FABRICATORS SPECIALTY ENGINEER. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED, DATED AND SEALED BY AN ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION. DUE CONSIDERATION SHALL BE GIVEN TO EXPANSION AND CONTRACTION BY PROVIDING SLIP JOINTS AS REQUIRED. DESIGN LOADING SHALL CONFORM TO ALL REQUIREMENTS OF THE BUILDING CODE (SEE DESIGN CRITERIA FOR APPLICABLE BUILDING CODE).
3. FLAG POLES AND SITE LIGHTING POLES SHALL BE DESIGNED BY THE POLE VENDORS SPECIALTY ENGINEER AND SHALL INCLUDE POLES, FOUNDATIONS AND CONNECTIONS. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED, DATED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION. MINIMUM DESIGN LOADS SHALL CONFORM TO ANSI/NAAM FP100 "SPECIFICATIONS FOR DESIGN LOADS OF METAL FLAGPOLES".

STRUCTURAL STEEL

1. A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.
2. FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE LATEST VERSION OF AISC 360-10.
3. MATERIAL SPECIFICATIONS:

- ALL STEEL SHALL BE PRODUCED DOMESTICALLY.
- ROLLED SHAPES, PLATES AND BARS: ASTM A36, EXCEPT WIDE-FLANGE AND WT SECTIONS, WHICH SHALL BE ASTMA992.
- HOLLOW STRUCTURAL SECTION (HSS): ASTM A500, GRADE B.
- ANCHOR BOLTS, RODS, NUTS AND WASHERS: PER BASE PLATE SCHEDULE.
- HEADED STUDS: ASTM A108, GRADE 1015 THROUGH 1020, COLD-FINISHED CARBON STEEL, AWS D1.1, TYPE B.
- BOLT STRUCTURAL CONNECTIONS: UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE 3/4" DIA. ASTM A325, TYPE N. BOLTS INDICATED LESS THAN 5/8" DIA. SHALL BE ASTM A307.
- WELDED CONNECTIONS: ELECTRODE - E70XX U.N.O. (LOW HYDROGEN). FILLET WELDS SHALL BE 3/16" U.N.O.

4. HIGH STRENGTH FIELD-BOLTED CONNECTIONS SHALL BE INSTALLED, TIGHTENED, TESTED AND INSPECTED ACCORDING TO "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC). ALL BOLTS IN STEEL TO STEEL CONNECTIONS SHALL BE BROUGHT TO A "SNUG-TIGHT" CONDITION, AS DEFINED IN THE SPECIFICATION. ALL BOLTS IN STEEL TO EMBED CONNECTIONS SHALL BE FINGER-TIGHT WITH PEENED THREADS. SLIP-CRITICAL (SC) BOLTS MUST BE FULLY TENSIONED PER SPECIFICATION.
5. ALL WIDE FLANGE FLOOR MEMBERS SHALL BE CONNECTED TO THE SUPPORTING STRUCTURE AS DETAILED IN CONNECTION SCHEDULES.
6. BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER PARTS OF CONSTRUCTION NECESSARY FOR PERMANENT SUPPORT ARE COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.
7. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
8. GROUT FOR COLUMN BASE PLATES AND PRESET BEARING PLATES SHALL BE NON-SHRINK NON-METALLIC GROUT (5000 PSI MIN.).
9. SUBMIT SHOP DRAWINGS INDICATING ALL SHOP ERECTION DETAILS INCLUDING PROFILES, SIZES, SPACING AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTION ATTACHMENTS, FASTENERS, LOADS AND TOLERANCES.
10. STRUCTURAL STEEL SHALL RECEIVE A SHOP COAT OF PRIMER (COLOR AS DIRECTED BY ARCHITECT) EXCEPT THOSE AREAS WHICH WILL RECEIVE SPRAY-ON FIRE PROTECTION, OR WHERE HEADED STUDS ARE TO BE WELDED.
11. THE STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN FULL CONFORMANCE WITH THE "OSHA STEEL ERECTION STANDARD". IF THE CONSTRUCTION DRAWINGS DEVIATE FROM THE OSHA STANDARD THEN THE FABRICATOR SHALL PROVIDE SUBMITTALS THAT CLEARLY INDICATE THE DEVIATION WITH A REVISION CLOUD AND REQUEST APPROVAL FROM BBM TO MAKE THE CHANGE SO THAT CONFORMANCE WITH THE OSHA STANDARD IS ASSURED.
12. REFER TO SPECIALTY ENGINEERING NOTES FOR DELEGATED ENGINEERING REQUIREMENTS.

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 12:22:33 -06'00'

K&W ENGINEERING SOLUTIONS
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JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

FOUNDATION SPECIFICATIONS

DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

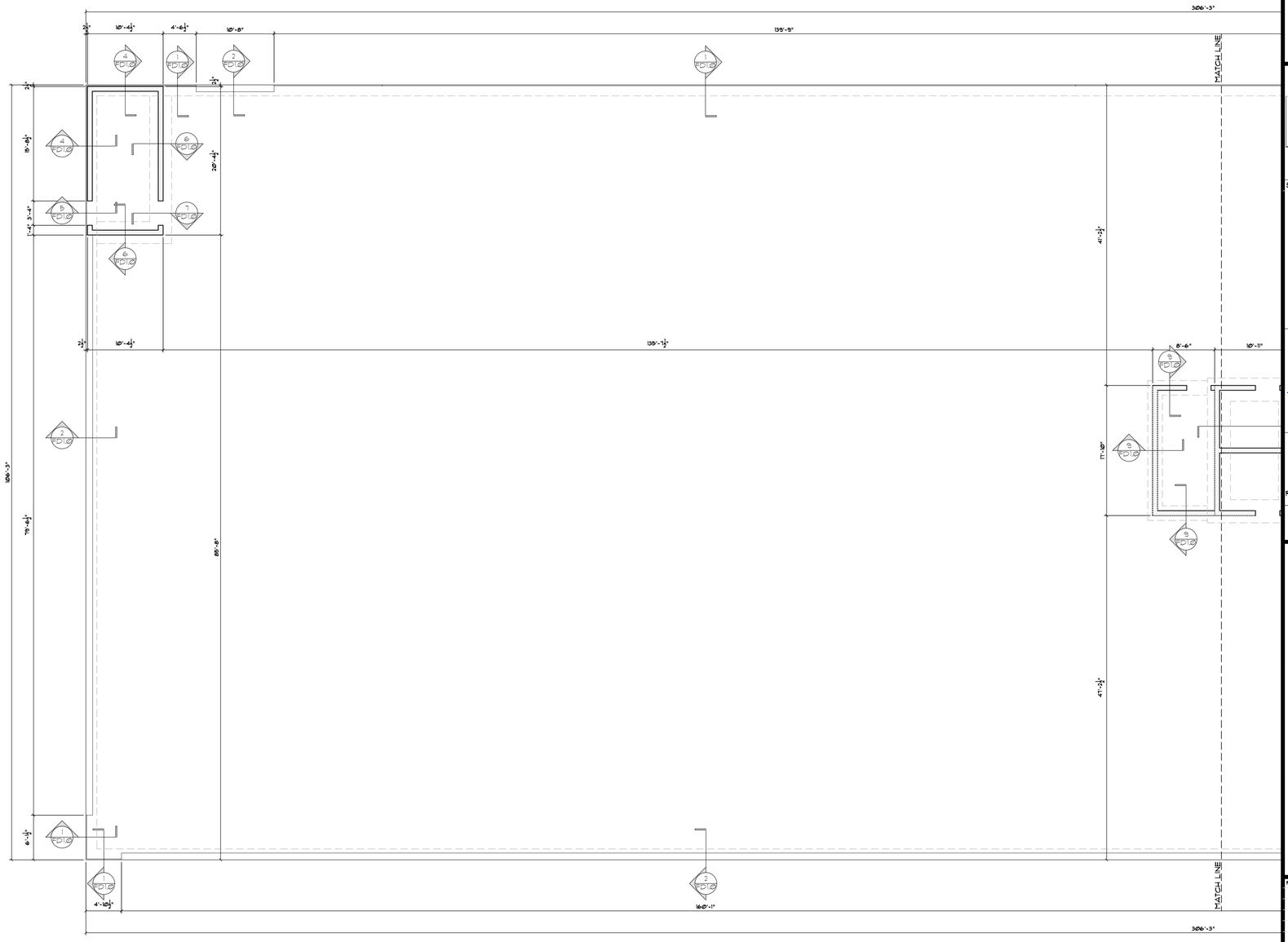
RBS-F0.1A

CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed
by Charles A Witt
Date: 2024.12.10
12:25:26 -06'00'

FOUNDATION SCHEDULE			
MARK	SIZE (L x W x D)	REINFORCING	REMARKS
F4Ø	4'-Ø" x 4'-Ø" x 1'-4"	(4) #5 EA WAY, BOT	COL PAD FOOTING
F5Ø	5'-Ø" x 5'-Ø" x 1'-4"	(5) #5 EA WAY, BOT	COL PAD FOOTING
FOUNDATION DESIGN INFORMATION			
ALL FOUNDATION DESIGNED IS BASED ON AN ASSUMED NET ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. A SOILS REPORT SHALL BE OBTAINED PRIOR TO THE PROJECT START AND THE BEARING PRESSURE SHALL BE CONFIRMED. OWNER ASSUMES ALL LIABILITY IF A SOILS REPORT IS NOT OBTAINED AND/OR THE BEARING PRESSURE IS NOT VERIFIED.			

FOUNDATION PLAN NOTES (3 STORY)	
1	FLOOR SLAB SHALL BE 8" THICK, Fc'=4,000psi CONCRETE REINFORCED WITH #4 BARS @ 12" O.C. EACH WAY OVER 10 MIL VAPOR BARRIER ON COMPACTED SUB-GRADE. (SEE SLAB ON GRADE DETAILS FOR PLACEMENT OF REINFORCED)
2	T/SLAB EL. = Ø'-Ø" TYP. UNO. T/EXT STL COL FTG @ CANOPY = -1'-Ø" TYP. UNO. T/EXT STL COL FTG = -2'-6" TYP. UNO. (REFERENCE ONLY - SEE CIVIL DWGS FOR ACTUAL ELEVATIONS.)
3	ALL CMU BEARING WALLS ARE 8" (TYP. UNO).
4	REINF LOAD-BEARING CMU WALLS W/ # 5 VERT BAR CENTERED IN GROUT-FILLED CELL AT ENDS, CORNERS, AND AT MAX SPACING OF 24" OC. SEE "ILLUSTRATIVE PLAN OF VARIOUS CMU WALL CONDITIONS" ON SHEET F0.1 FOR ADDITIONAL INFO. ALL LOAD BEARING CMU WALLS SHALL HAVE A BB2 AT EA FLOOR & TOP OF WALL, UNO.
5	TYP SPACING OF FILLED CELLS SHALL APPLY ABOVE AND BELOW OPENINGS ALSO.
6	SEE SHEETS RBS-Ø.1 FOR STRUCTURAL GENERAL NOTES.
7	MAINTAIN STRUCTURAL SLAB THICKNESS AT ALL FLOOR SLOPES AND DEPRESSIONS
8	SEE RBS-BD1.Ø FOR FOUNDATION, COLUMN AND BASE PLATE SCHEDULES.
9	INDICATES 8" CMU.
10	T/ ELEVATOR MAT -4'-Ø" B.F.F. COORD W/ ELEVATOR MFR.



BLDG A "A" FOUNDATION PLAN

1/8" = 1'

ENGINEERING SOLUTIONS

SEALS

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PHONE: (407) 347-9614
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RAPIDBUILDINGSOLUTIONS.COM

JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLDG. "A"
FOUNDATION
PLAN

DATE	Ø6-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

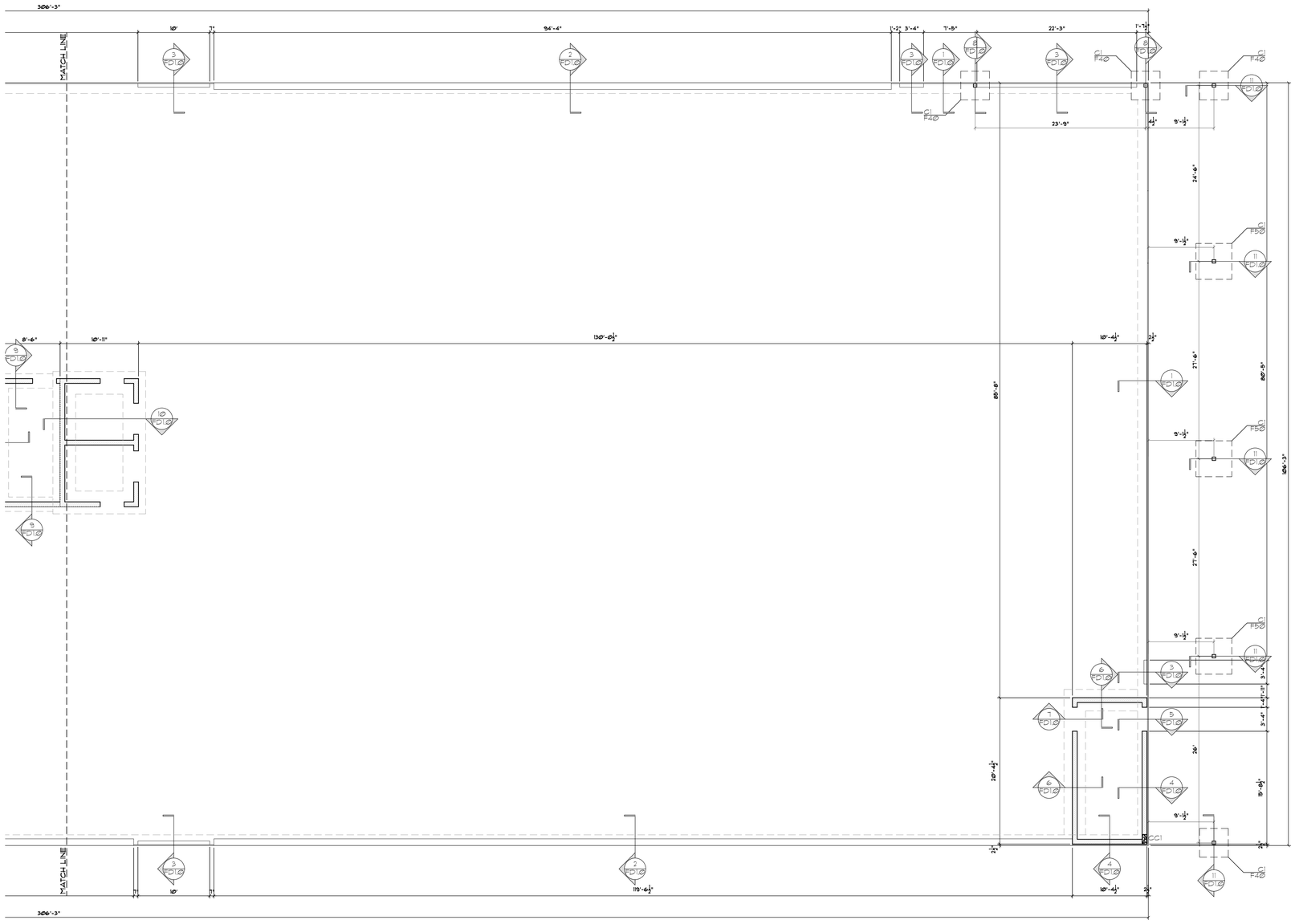
RBS-F1.Ø

CHARLES A. WITT
LICENSE
No. 83199
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 12:29:21 -06'00'

FOUNDATION SCHEDULE			
MARK	SIZE (L x W x D)	REINFORCING	REMARKS
F4Ø	4'-Ø" x 4'-Ø" x 1'-4"	(4) #5 EA WAY, BOT	COL PAD FOOTING
F5Ø	5'-Ø" x 5'-Ø" x 1'-4"	(5) #5 EA WAY, BOT	COL PAD FOOTING
FOUNDATION DESIGN INFORMATION			
ALL FOUNDATION DESIGNED IS BASED ON AN ASSUMED NET ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. A SOILS REPORT SHALL BE OBTAINED PRIOR TO THE PROJECT START AND THE BEARING PRESSURE SHALL BE CONFIRMED. OWNER ASSUMES ALL LIABILITY IF A SOILS REPORT IS NOT OBTAINED AND/OR THE BEARING PRESSURE IS NOT VERIFIED.			

FOUNDATION PLAN NOTES (3 STORY)	
1	FLOOR SLAB SHALL BE 8" THICK, Fc'=4,000psi CONCRETE REINFORCED WITH #4 BARS @ 12" O.C. EACH WAY OVER 10 MIL VAPOR BARRIER ON COMPACTED SUB-GRADE. (SEE SLAB ON GRADE DETAILS FOR PLACEMENT OF REINFORCED)
2	T/SLAB EL. = Ø'-Ø" TYP. UNO. T/EXT STL COL FTG @ CANOPY = -1'-Ø" TYP. UNO. T/EXT STL COL FTG = -2'-6" TYP. UNO. (REFERENCE ONLY - SEE CIVIL DWGS FOR ACTUAL ELEVATIONS.)
3	ALL CMU BEARING WALLS ARE 8" (TYP. UNO.).
4	REINF LOAD-BEARING CMU WALLS W/ # 5 VERT BAR CENTERED IN GROUT-FILLED CELL AT ENDS, CORNERS, AND AT MAX SPACING OF 24" OC. SEE "ILLUSTRATIVE PLAN OF VARIOUS CMU WALL CONDITIONS" ON SHEET F0.1 FOR ADDITIONAL INFO. ALL LOAD BEARING CMU WALLS SHALL HAVE A BB2 AT EA FLOOR & TOP OF WALL, UNO.
5	TYP SPACING OF FILLED CELLS SHALL APPLY ABOVE AND BELOW OPENINGS ALSO.
6	SEE SHEETS RBS-Ø.1 FOR STRUCTURAL GENERAL NOTES.
7	MAINTAIN STRUCTURAL SLAB THICKNESS AT ALL FLOOR SLOPES AND DEPRESSIONS
8	SEE RBS-BD1Ø FOR FOUNDATION, COLUMN AND BASE PLATE SCHEDULES.
9	INDICATES 8" CMU.
10	T/ ELEVATOR MAT -4'-Ø" B.F.F. COORD W/ ELEVATOR MFR.



BLDG A "A" FOUNDATION PLAN
1/8" = 1'

ALL CONTENTS SHOWN WITHIN THESE PLANS, MAY NOT BE INCLUDED. SEE RAPID'S PROPOSAL/CONTRACT FOR ACTUAL INCLUDED ITEMS.

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JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

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BLDG. "A"
FOUNDATION PLAN

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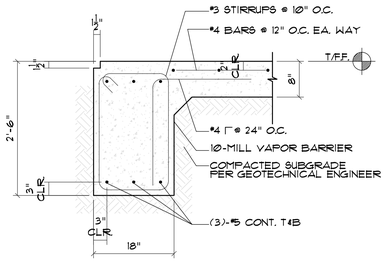
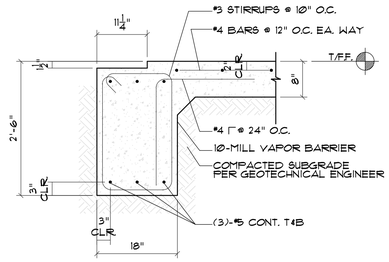
SCALE	AS NOTED
SHEET	

RBS-F1.1



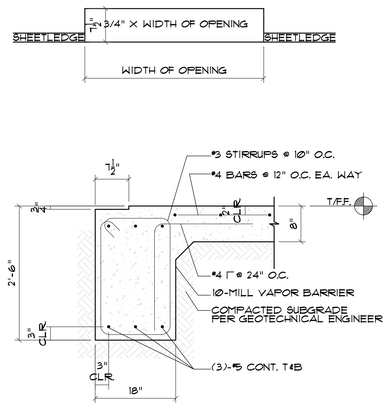
1 FD1.0 TYPICAL FOUNDATION DETAIL AT SHEETLEDGE

SCALE: 3/4" = 1'



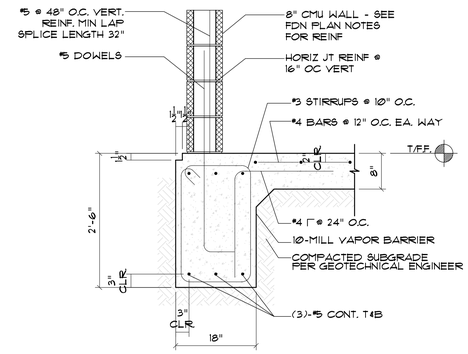
2 FD1.0 TYPICAL FOUNDATION DETAIL AT RAINLIP

SCALE: 3/4" = 1'



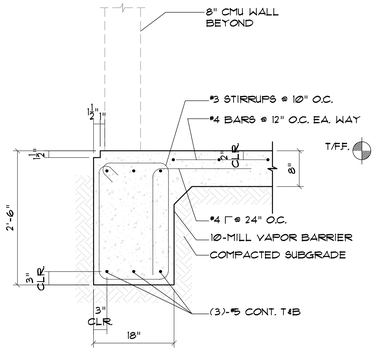
3 FD1.0 TYPICAL FOUNDATION DETAIL AT 6" FRAMED STOREFRONT/PERSONNEL DOOR

SCALE: 3/4" = 1'



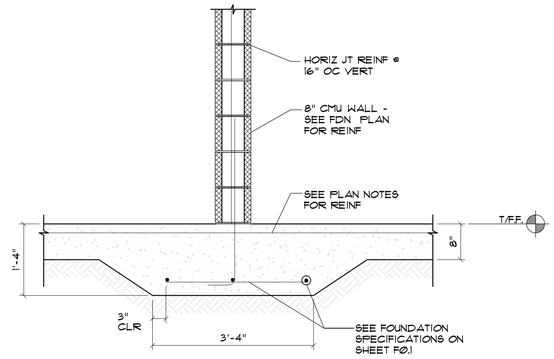
4 FD1.0 TYPICAL FOUNDATION DETAIL AT EXTERIOR CMU WALL

SCALE: 3/4" = 1'



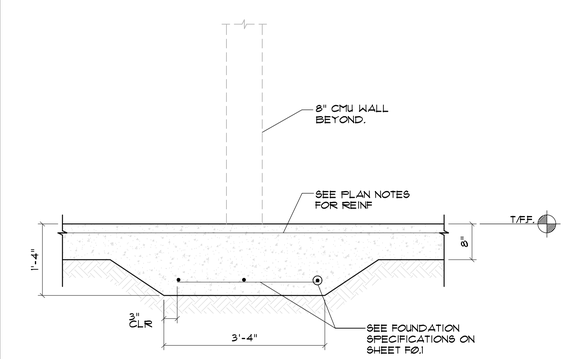
5 FD1.0 TYPICAL FOUNDATION DETAIL AT EXTERIOR CMU WALL OPENING

SCALE: 3/4" = 1'



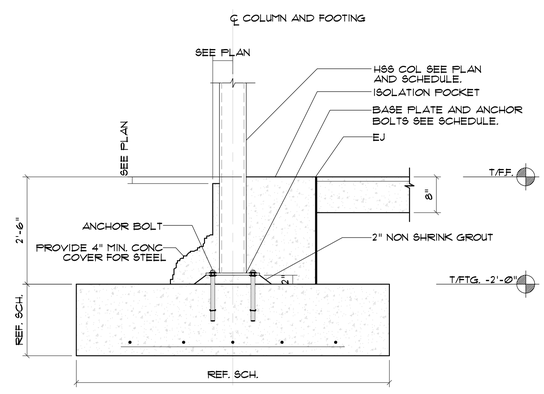
6 FD1.0 SECTION (INTERIOR CMU WALL)

SCALE: 3/4" = 1'



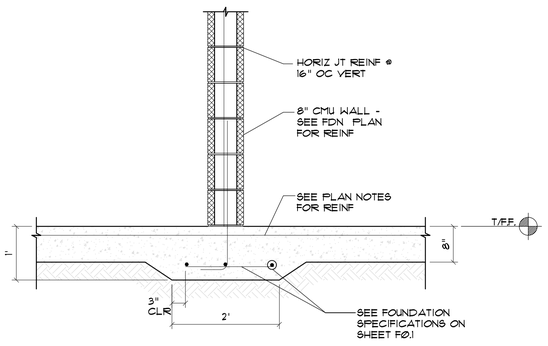
7 FD1.0 SECTION (INTERIOR CMU WALL OPENING)

SCALE: 3/4" = 1'



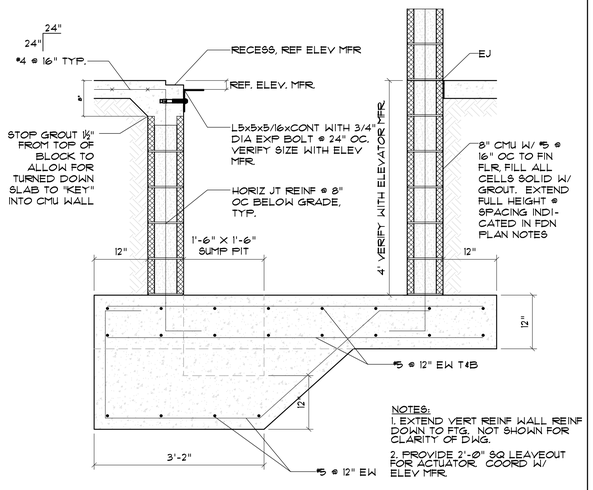
8 FD1.0 EXTERIOR HSS STEEL COLUMN TO FOUNDATION

SCALE: 3/4" = 1'



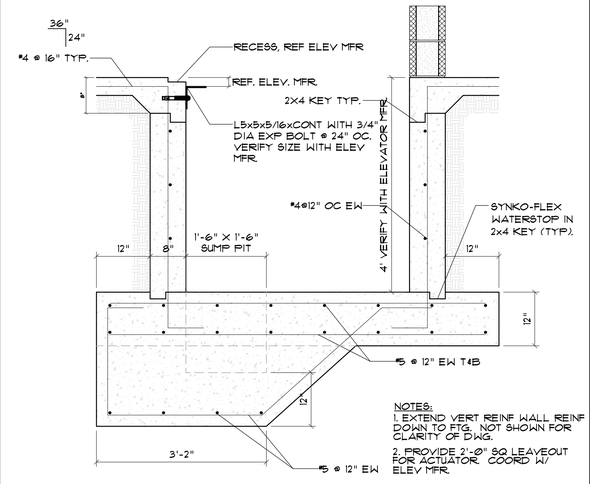
9 FD1.0 SECTION (INTERIOR CMU WALL)

SCALE: 3/4" = 1'



10 FD1.0 SECTION AT ELEVATOR PIT

SCALE: 3/4" = 1'



10A FD1.0 SECTION AT ELEVATOR PIT (GC OPTION)

SCALE: 3/4" = 1'

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

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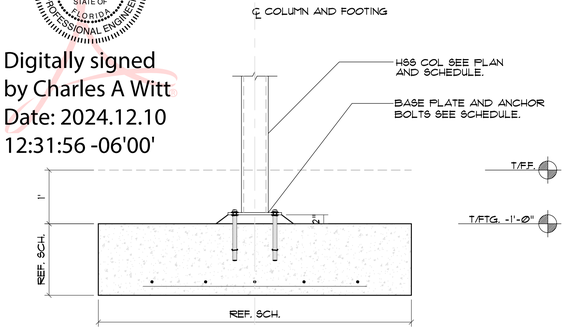
Date: 2024.12.10 12:31:56 -06'00'



11 FD1.0 HSS STEEL COLUMN TO FOUNDATION @ EXTERIOR CANOPY

SCALE: 3/4" = 1'

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JOB NUMBER: 583-24-MAL-FL

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1450 W RAILROAD AVE.
MALABAR, FL 32950

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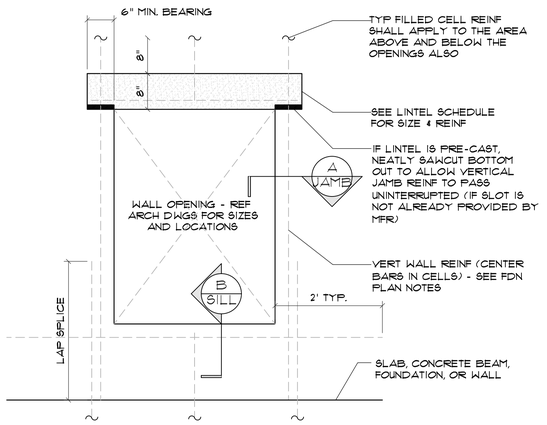
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

FOUNDATION DETAILS

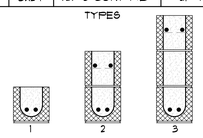
DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

RBS-FD1.0



LINTEL SCHEDULE (8" CMU)				
TYPE	HEIGHT	REINFORCING	MAX CLEAR SPAN	MIN. CAPACITY (NOTE 1)
1	8x8	(2) #5 CONT	UP TO 6'-0"	1150 PLF
2	8x16	(2) #5 CONT T&B	UP TO 10'-0"	1450 PLF
3	8x24	(2) #5 CONT T&B	UP TO 14'-0"	1600 PLF

TYPES

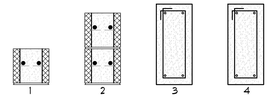


NOTE TO ENG:
VERIFY BEAM CAPACITIES IF YOU HAVE FLOOR OR ROOF LOADS WITHIN THE ARCH ACTION AREA.

NOTE:
1. MIN. PB CAPACITY FOR THE INDICATED SPAN MUST BE VERIFIED BY THE PRECAST MFR AND DOCUMENTATION PROVIDED IN THE SUBMITTALS.

1 FD1.1 — TYPICAL MASONRY WALL OPENING ELEVATION
SCALE: 3/4" = 1'

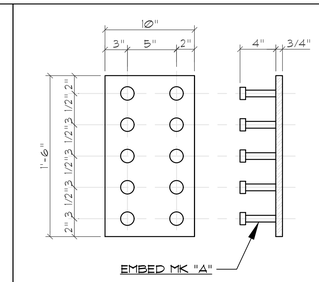
MASONRY WALL/CONCRETE BEAM SCHEDULE								
MARK	TYPE	NOMINAL SIZE (W"xD")	REINFORCING			STIRRUPS		COMMENTS
			BOT	MID	TOP	SIZE	SPACING	
BB1	1	8x8	--	(2) #5	--	--	--	
BB2	2	8x16	(2) #5	--	(2) #5	--	--	
CB1	3	8x16	(2) #5	--	(2) #5	#3	12" OC	
CB2	4	8x24	(2) #5	(2) #5	(2) #5	#3	12" OC	
TB1	3	8x16	(2) #5	--	(2) #5	#3	24" OC	
TB2	3	8x12(MIN.)	(2) #5	--	(2) #5	#3	24" OC	MATCH COURSING



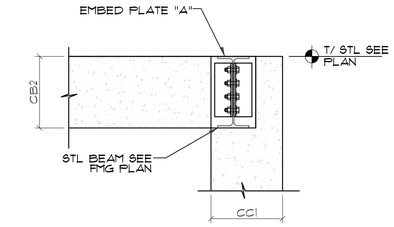
BEAM TYPES

NOTES:
1. "BB" = BOND BEAM (COMPOSED OF KNOCK-OUT BLOCK)
2. "TB" = TIE BEAM (FORMED AND POURED)
3. "CB" = CONCRETE BEAM (FORMED AND POURED)
4. "CC" = CONCRETE COLUMN (FORMED AND POURED)

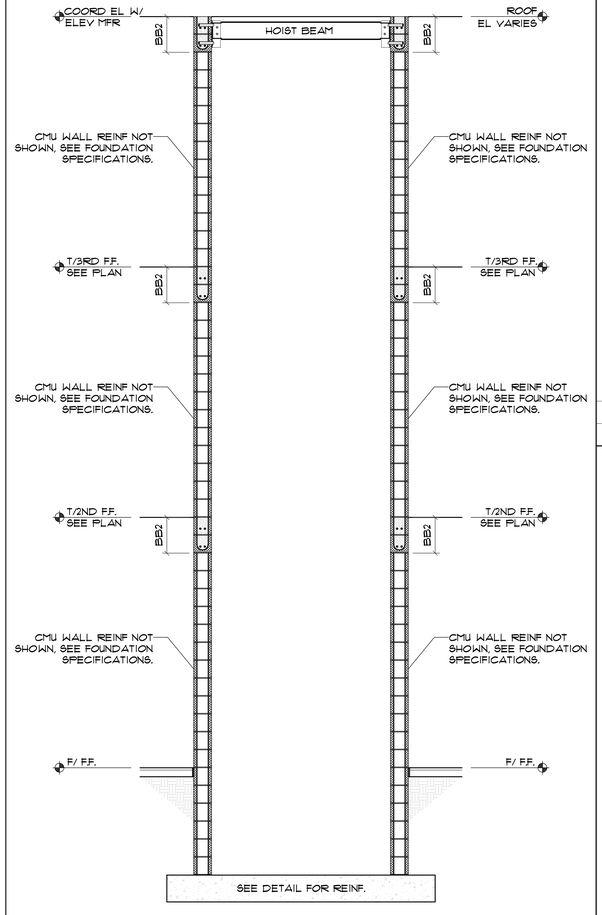
2 FD1.1 — MASONRY WALL BEAM SCHEDULE
SCALE: 3/4" = 1'



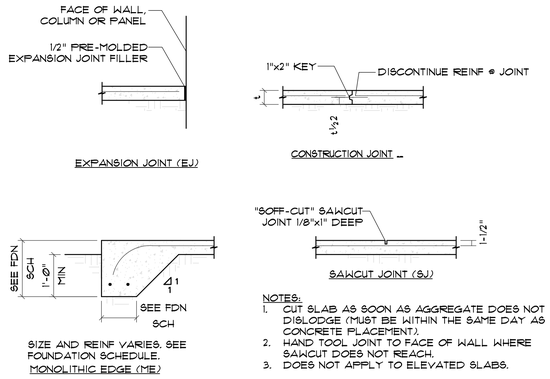
NOTE TO GC.
1. EMBED PLATE TO BE PROVIDED AND INSTALLED BY OTHERS.
2. ALL FIELD WELDED CONNECTIONS THAT ARE VISIBLE SHALL BE PAINTED W/ A RUST INHIBITOR AFTER THE CONNECTION IS COMPLETED.



3 FD1.1 — STEEL BEAM TO CC1
SCALE: 3/4" = 1'

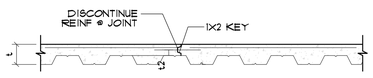


4 FD1.1 — SECTION @ ELEVATOR SHAFT (FOR 3 STORY)
N.T.S.

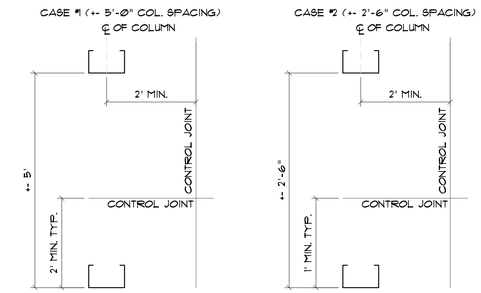


NOTES:
1. CUT SLAB AS SOON AS AGGREGATE DOES NOT DISLODGE (MUST BE WITHIN THE SAME DAY AS CONCRETE PLACEMENT).
2. HAND TOOL JOINT TO FACE OF WALL WHERE SAWCUT DOES NOT REACH.
3. DOES NOT APPLY TO ELEVATED SLABS.

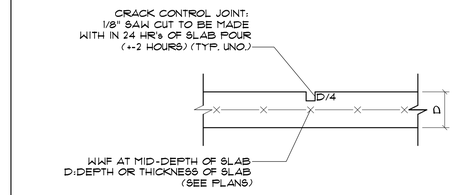
5 FD1.1 — DETAILS SLAB ON GRADE
SCALE: 3/4" = 1'



6 FD1.1 — DETAILS METAL DECK CONTROL JOINT
SCALE: 3/4" = 1'



MAXIMUM SPACING OF CONTROL JOINTS SHALL BE AS SHOWN IN THE TABLE BELOW. PATTERNS SHALL BE APPROXIMATELY SQUARE W/ RATIO OF LONG SIDE TO SHORT SIDE NOT TO EXCEED 1.5 TO 1.								
SLAB THICKNESS (IN.)	4	5	6	7	8	9	10	CONTROL JOINT CUT PLACEMENT
SPACING (FT.)	12	13	15	18	20	23	25	



TYPICAL SLAB CONTROL JOINT

IMPORTANT:
RAIN LIP AND SHEET LEDGE ARE VITAL TO THE PROPER FIT OF THE STEEL CONSTRUCTION. CONTRACTOR TO FIELD VERIFY THE SHEET LEDGES AND RAIN LIPS AND IF THEY ARE NOT TO THE DRAWING, CONTACT METAL BUILDING COMPANY BEFORE STEEL CONSTRUCTION BEGINS.

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 12:34:19 -06'00'

ENGINEERING SOLUTIONS

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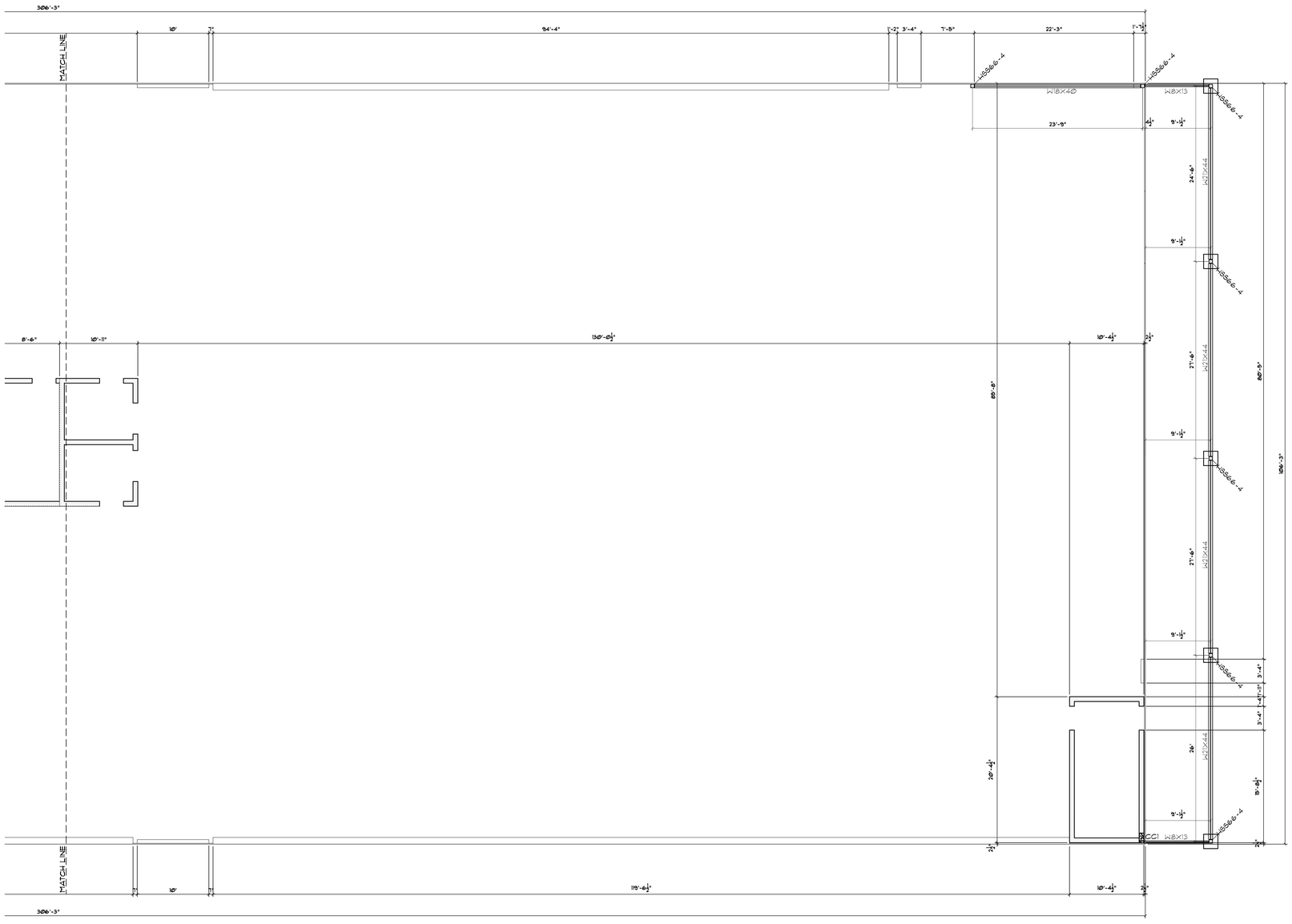
RBS-FD1.1

CHARLES A. WITT
LICENSE
No. 83199
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Digitally signed
by Charles A Witt
Date: 2024.12.10
12:36:53 -06'00'



BLDG A1 "A1" 1ST FLOOR BLACK STEEL LAYOUT

1/8" = 1'

ALL CONTENTS SHOWN WITHIN THESE PLANS, MAY NOT BE INCLUDED. SEE RAPID'S PROPOSAL/CONTRACT FOR ACTUAL INCLUDED ITEMS.

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BLACK STEEL
PLAN

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SCALE	AS NOTED
SHEET	

RBS-B1.0

HSS COLUMN & BASE PLATE SCHEDULE

COLUMN MARK	COLUMN SIZE	BASE PLATE			ANCHOR BOLT		CAP PLATE	REMARKS
		"A"	"B"	THICKNESS	EMBED (NT 2&3)	DIAMETER		
(C1) HSS66-4	6"X6"X1/4"	12"	12"	1/2"	9"	3/4"		

1. ANCHOR RODS SHALL BE ASTM F1554 (GRADE 36) UNO, THREADED EACH END WITH NUT AT BOTTOM. PLATE WASHER AT BOTTOM NUT IS NOT REQ'D. INCREASE FOOTING THICKNESS AT ANCHOR RODS TO PROVIDE MIN 3" COVER. SEE NOTE BELOW IN ANCHOR ROD DETAIL.
2. PLATE WASHERS SHALL HAVE HOLE WITH DIAMETER EQUAL TO ROD DIAMETER + 1/16". CIRCULAR OR SQUARE WASHERS ARE ACCEPTABLE.
3. IT SHALL BE ACCEPTABLE TO PROVIDE A HEAVY HEX HEAD BOLT IN LIEU OF THE THREADED ROD WITH HEAVY HEX NUT AT BOTTOM.

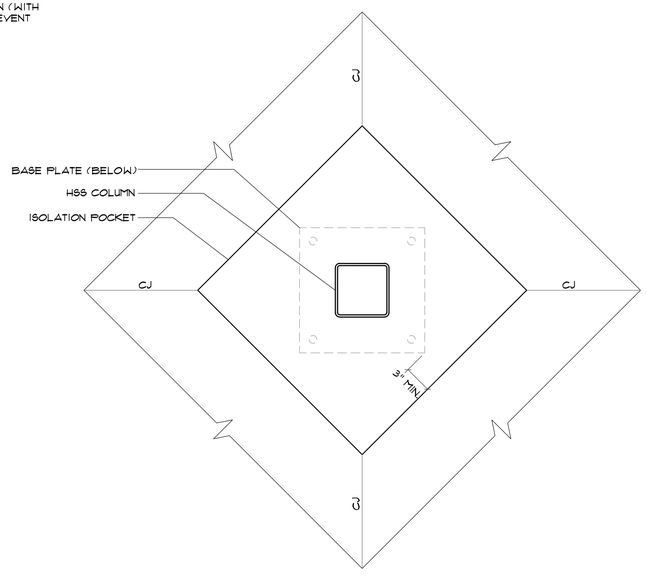
BOLT MATERIAL TYPE	MINIMUM EMBEDED LENGTH	MAXIMUM EMBEDED LENGTH	MINIMUM EMBEDED EDGE DISTANCE
A307, A36	12d	E+FTG THICKNESS -5"	5d≥4"
A325, A449	17d		7d≥4"

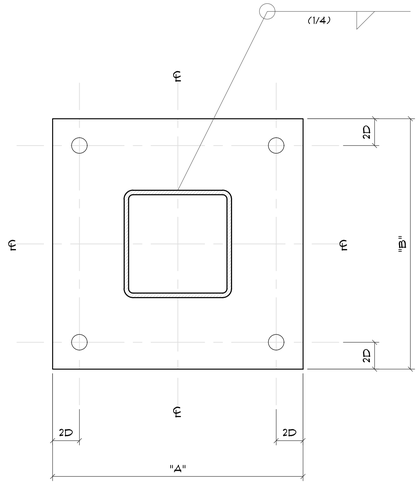
OVERSIZED HOLES AND PLATE WASHERS FOR BASE PLATES

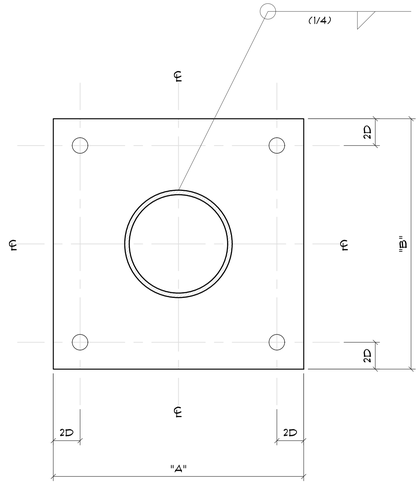
BOLT DIAMETER	HOLE DIAMETER	PL WASHERS	BOLT DIAMETER	HOLE DIAMETER	PL WASHERS
3/4"	1 5/16"	1/4"X2"X2"	1 1/2"	2 5/16"	1/12"X3 1/2"
7/8"	1 9/16"	5/16"X2 1/2"X2 1/2"	1 3/4"	2 3/4"	5/8"X4"
1"	1 13/16"	3/8"X3"X3"	2"	3 1/4"	3/4"X5"
1 1/4"	2 1/16"	1/2"X3"X3"	2 1/2"	3 3/4"	7/8"X5 1/2"

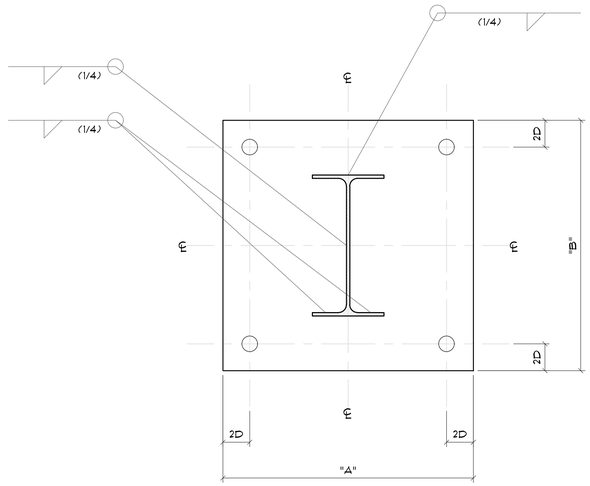
ISOLATION POCKET DETAIL

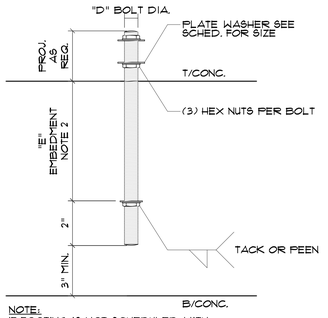
NOTE:
IT IS IMPERATIVE THAT THE ORIENTATION OF ISOLATION POCKET BE AS THAT SHOWN (WITH CORNERS AT CONTROL JOINTS) TO PREVENT EXCESSIVE CRACKING IN SLAB.



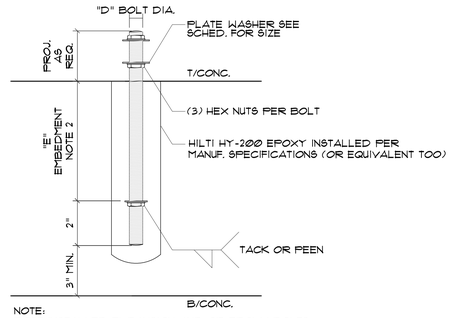








NOTE:
IF FOOTING IS NOT SCHEDULED WITH SUFFICIENT THICKNESS, THEN INCREASE THICKNESS AT ANCHOR BOLTS ONLY



NOTE:
POST INSTALLED EXPANSION AND OR EPOXY BOLTS ARE ACCEPTABLE ALTERNATIVES TO THE CAST IN PLACE ANCHOR BOLTS SHOWN.
THE POST INSTALLED ANCHORS SHALL BE OF EQUIVALENT DIAMETER AND EMBEDMENT LENGTH AS SCHEDULED.

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 12:39:58 -06'00'

BASE PLATE & ANCHOR BOLT DETAIL

SCALE: 3" = 1'

K&W ENGINEERING SOLUTIONS
KNOWLEDGEABLE WITH EXCELLENT SERVICE

SEALS

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JOB NUMBER:
583-24-MAL-FL

STORAGE RENTALS OF AMERICA
1450 W RAILROAD AVE.
MALABAR, FL 32950

REV.	DATE	DESCRIPTION	BY
1	10-28-24	EXTERIOR CHANGES	DCH
2	12-03-24	ADDRESS CHNG.	DCH

SHEET TITLE

BLACK STEEL DETAILS

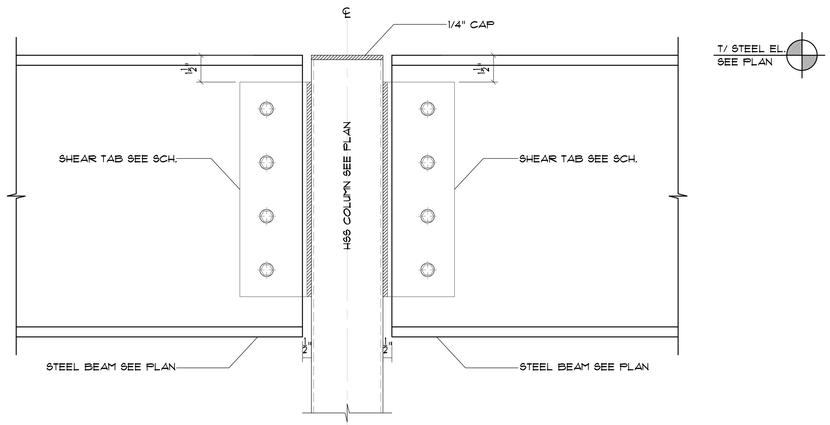
DATE	06-17-24
DESIGNED BY	RBS
CHECKED BY	RBS
DRAWN BY	DCH
SCALE	AS NOTED
SHEET	

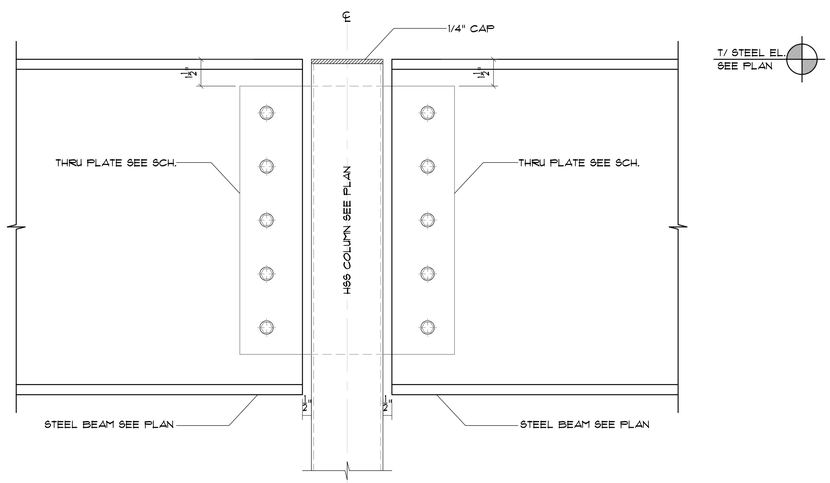
RBS-BD1.0

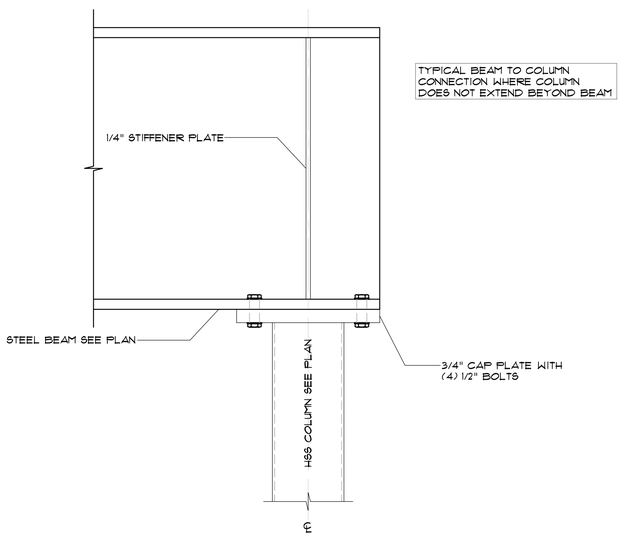
NOTE: COLUMN CAP PLATE MAY NOT BE REQUIRED. COLUMNS MAY EXTEND UPWARDS.

CHARLES A. WITT LICENSE No. 83199 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Charles A Witt
Date: 2024.12.10 12:42:40 -06'00'







TYPICAL BEAM TO STL COL SHEAR CONNECTION

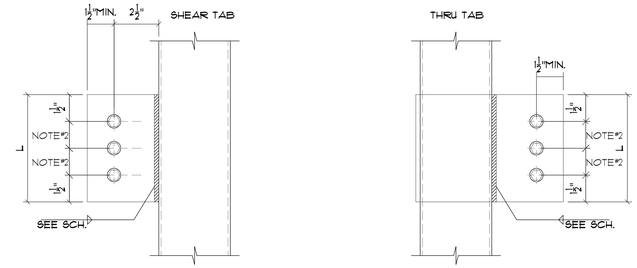
SCALE: 3" = 1'

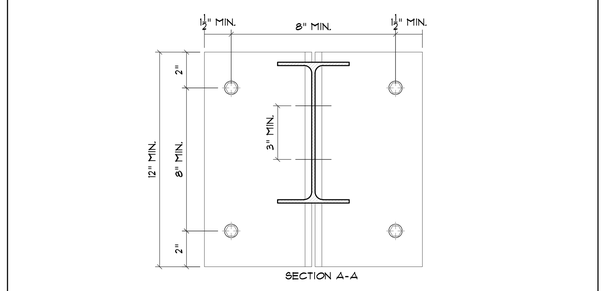
SINGLE PLATE SHEAR CONNECTION SCHEDULE
(SHOP WELDED, FIELD BOLTED)

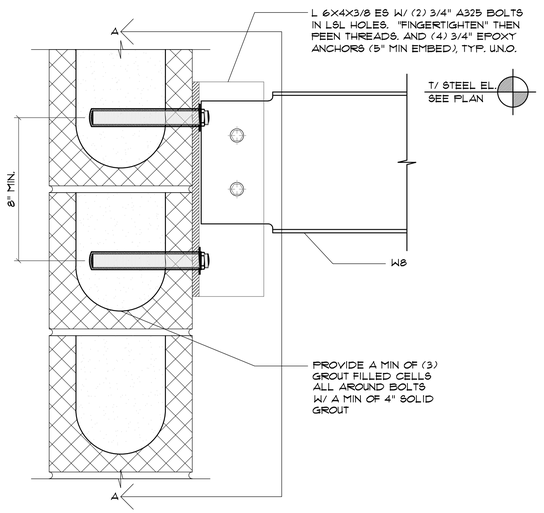
BEAM SIZE (SEE PLAN)	NO. OF A325-N BOLTS	SHEAR TAB / THRU-PLATE THICKNESS (36 KSI), IN.	FILLET WELD SIZE (E70XX), IN.	MAXIMUM ALLOWABLE END REACTION, KIPS	SHEAR TAB / THRU-PLATE LENGTH (L), IN.
W8, W10	(2) 3/4" BOLTS	5/16"	1/4"	8.2	6"
W12, W14	(3) 3/4" BOLTS	5/16"	1/4"	16.3	9"
W16, W18	(4) 3/4" BOLTS	5/16"	1/4"	26.1	12"
W21	(5) 3/4" BOLTS	3/8"	5/16"	36.3	15"
W24	(6) 3/4" BOLTS	3/8"	5/16"	46.3	18"
W27	(7) 3/4" BOLTS	3/8"	5/16"	56.4	21"

NOTES:

1. FOR BEAMS NOT SHOWN HEREIN, FABRICATOR SHALL DESIGN THE SHEAR CONNECTION BASED ON THE REACTION SHOWN ON THE PLAN.
2. SEE SCHEDULE ABOVE FOR NUMBER OF BOLTS (3"GA.).
3. PROVIDE 13/16"x1 1/2" HORIZ SLOTS IN BEAM WEB.
4. BEAMS SHALL BE 50 KSI.
5. PROVIDE HORIZ SLOTS IN SHEAR PLATE.
6. PROVIDE HARDENED WASHER OVER SLOTTED HOLES.
7. BOLTS SHALL BE INSTALLED "SNUG-TIGHT".

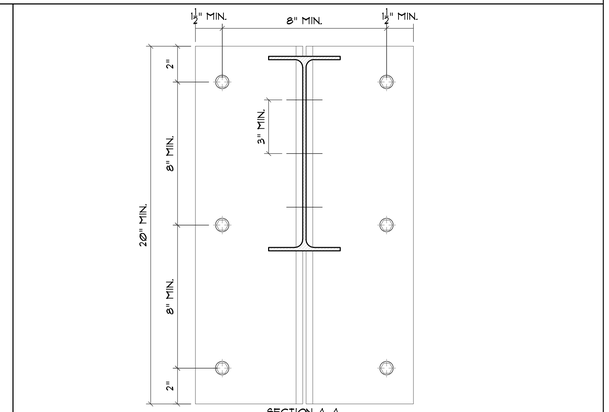


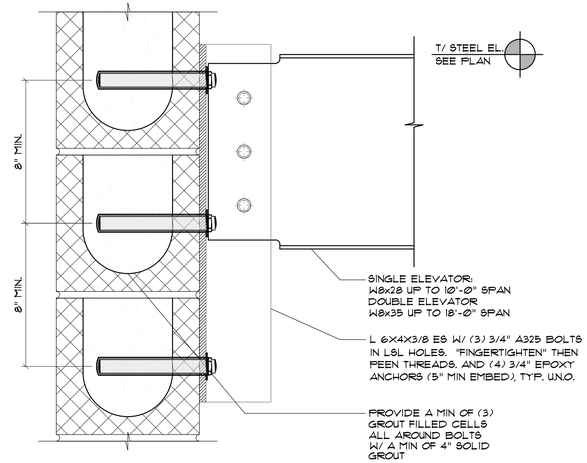




TYPICAL ELEVATOR SPREADER BEAM

SCALE: 3" = 1'





TYPICAL ELEVATOR HOIST BEAM

SCALE: 3" = 1'

ENGINEERING SOLUTIONS

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RBS-BD1.1