

W	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
W																														
	STRUCTURAL - GENERAL NOTES					SPECIALTY ENGINEER SHOP DRAWING SUBMITTALS					STRUCTURAL CONCRETE																			
V	1. TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING GOVERNING DESIGN CODES: A. ACI 315- AMERICAN CONCRETE INSTITUTE, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES B. ACI 318-14: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY. C. ACI 530.1/TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES D. AISC MANUAL: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, 15 TH EDITION E. AISI MANUAL: AMERICAN IRON AND STEEL INSTITUTE, COLD-FORMED STEEL DESIGN MANUAL F. ASCE 7-16: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES G. AWS D1.1/D1.1M: AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE H. IBC 2018: INTERNATIONAL BUILDING CODE, 2018 EDITION, AS AMENDED BY THE 2020 FLORIDA BUILDING CODE I. FBC 2020: FLORIDA BUILDING CODE, 7TH EDITION J. SANTA ROSA, FL LAND DEVELOPMENT CODE (LDC)					1. SPECIALTY ENGINEER: A. SHALL BE AN EMPLOYEE OR OFFICER OF A FABRICATOR, AN EMPLOYEE OR OFFICER OF AN ENTITY SUPPLYING COMPONENTS TO A FABRICATOR, OR AN INDEPENDENT CONSULTANT RETAINED BY THE FABRICATOR OR HIS SUPPLIER. 2. THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS WITH INPUT BY A SPECIALTY ENGINEER, BUT ARE NOT LIMITED TO: WINDOW SYSTEMS, STOREFRONT SYSTEM, ROOF SYSTEMS (INCLUDING PRE-ENGINEERED TRUSSES AND ATTACHMENTS, PRE-ENGINEERED STAIRS, AND LOUVERS. 3. THE SPECIALTY ENGINEER OR MANUFACTURER SHALL DESIGN, PROVIDE, AND INSTALL THEIR COMPONENTS AND THE COMPONENT CONNECTIONS TO THE PRIMARY STRUCTURE PER THE CRITERIA STATED IN THESE NOTES OR THE CURRENT GOVERNING BUILDING CODES, WHICHEVER IS MORE STRINGENT. 4. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED. 5. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE SEAL, DATE AND SIGNATURE OF THE SPECIALTY ENGINEER. COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE SEAL AND SIGNATURE OF THE SPECIALTY ENGINEER AS AN INDICATION THAT HE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. 6. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING: A. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED. B. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE SPECIALTY ENGINEER. C. THAT THE SPECIALTY ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE.) D. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE.) 7. SUBMITTALS NOT MEETING THE ABOVE REQUIREMENTS WILL NOT BE REVIEWED AND WILL BE RETURNED TO CONTRACTOR MARKED REVISE AND RESUBMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS WHICH MAY RESULT. 8. THE CONTRACTOR SHALL ENGAGE AN PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA TO PROVIDE SHORING DRAWINGS AND CALCULATIONS FOR SUPPORT ELEVATED SLABS AT ELEVATOR SHAFTS AND STAIRS. 9. IN ADDITION TO SUBMITTALS REQUIRED BY THE PROJECT SPECIFICATIONS AND CONSTRUCTION DOCUMENTS, THE FOLLOWING "STRUCTURAL SUBMITTALS" ARE REQUIRED FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD. A. CONCRETE WORK: CONCRETE MIX DESIGNS AND REBAR SHOP DRAWINGS. B. METAL BUILDING SHOP DRAWINGS AND REACTION DRAWINGS. C. STRUCTURAL STEEL: STEEL SHOP DRAWINGS DETAILING MEMBERS AND CONNECTIONS. 10. ALL STRUCTURAL SUBMITTALS SHALL BE PREPARED BY THE SPECIALTY ENGINEER. 11. DRAWINGS PREPARED SOLELY AS A GUIDE FOR ERECTION AND INSTALLATION AND CATALOG INFORMATION WILL NOT REQUIRE AN ENGINEERS SEAL; HOWEVER, THEY SHALL BEAR THE ENGINEERS SIGNATURE AND AN INDICATION THAT THE WORK WAS CHECKED.					1. ALL CAST-IN-PLACE CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-14 AND ACI 301. EXCEPT AS MODIFIED BY THE PROJECT CONSTRUCTION DOCUMENTS. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 03300. 2. ALL CONCRETE SHALL MEET THE PROJECT SPECIFICATIONS AND SHALL DEVELOP COMPRESSIVE STRENGTHS AS FOLLOWS (28 DAY STRENGTH): A. NORMAL WEIGHT CONCRETE (145 PCF) B. FOUNDATION & SLABS ON GRADE 4000 PSI W/ 650 PSI FLEX MIX. C. ALL OTHER CONCRETE 4000 PSI PROVIDE CURRENT (MAX. 1 YEAR OLD) STATISTICAL DATA FOR EACH CONCRETE MIX SUBMITTED IN ACCORDANCE WITH ACI 318-14. 3. SPACING BARS FOR CONCRETE SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI AND MEET THE REQUIREMENTS OF ASTM A-615. FOR PLACEMENT OF REINFORCING CONFORM TO ACI-301, ACI-315, ACI-318, AND CRSI "MANUAL OF STANDARD PRACTICE" ALL REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED, AND FIRMLY TIED IN PLACE WITH BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH THE ABOVE REQUIREMENTS. PROVIDE CLASS "B" LAP SPLICE FOR CONTINUOUS BARS. USE THE FOLLOWING COVER: A. CONCRETE COVER REQUIREMENTS FOR REINFORCEMENT, U.N.O.: a. CONCRETE CAST AGAINST EARTH. 3" b. CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH: • #5 REINFORCEMENT AND SMALLER 1 1/2" • REINFORCEMENT LARGER THAN #5 2" • WELDED WIRE FABRIC 1" FROM TOP OF SLAB c. CONCRETE POURED IN FORMS BUT NOT EXPOSED TO WEATHER OR EARTH. • #11 REINFORCEMENT AND SMALLER 3/4" 4. NO CONDUIT PLACED IN CONCRETE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB. NO CONDUIT SHALL BE EMBED IN A SLAB THAT IS LESS THAN 4" THICK. MINIMUM CLEAR DISTANCE SHALL BE IN ACCORDANCE WITH ACI 318. 5. ALL REINFORCING BARS, ANCHOR BOLTS, DOWELS AND OTHER CONCRETE INSERTS SHALL BE SECURED ADEQUATELY IN POSITION PRIOR TO PLACEMENT OF CONCRETE. CONTRACTOR SHALL USE TEMPLATES TO INSURE ACCURATE PLACEMENT OF ANCHOR BOLTS, DOWELS, ETC. 6. ALL CONCRETE SHALL BE CONSOLIDATED BY USE OF A MECHANICAL VIBRATOR OR OTHER MEANS APPROVED BY THE ENGINEER. 7. CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. CONCRETE SHALL BE PLACED IN ITS FINAL POSITION WITHIN 90 MINUTES AFTER ADDITION OF BATCH WATER. CONCRETE SHALL BE DISCARDED IF THE FOREGOING ELAPSED TIME IS EXCEEDED.																			
U	2. THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE MECHANICAL AND ELECTRICAL. USE THESE NOTES IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS. 3. SEE PROJECT SPECIFICATIONS FOR TESTING. 4. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS, INCLUDING DIMENSIONS, AND SITE CONDITIONS AND COORDINATE WITH FIELD DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. ANY AND ALL DISCREPANCIES SHALL BE SUBMITTED IN WRITING TO <u>ENGINEER OF RECORD</u> . DO NOT MODIFY OR CHANGE THE SIZE OR DIMENSIONS OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE <u>ENGINEER OF RECORD</u> . 5. IT SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR TO LOCATE ANY AND ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE. EACH CONTRACTOR SHALL PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC. EACH CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE. 6. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK. DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. ANY QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ARCHITECT / ENGINEER. 7. DESIGN LOAD CRITERIA: A. BUILDING RISK CATEGORY. II B. GRAVITY LOADS: a. SLAB ON GRADE (U.N.O.) 250 PSF b. ROOF LIVE LOAD 20 PSF c. ROOF DEAD LOAD 20 PSF d. STAIRS AND EXITS 100 PSF C. WIND LOADS: a. ULTIMATE DESIGN WIND SPEED 147 MPH b. NOMINAL DESIGN WIND SPEED 114 MPH c. WIND EXPOSURE CATEGORY C d. INTERNAL PRESSURE COEFFICIENT ±0.18 (ENCLOSED)					SUBMITTALS NOT MEETING THE ABOVE REQUIREMENTS WILL NOT BE REVIEWED AND WILL BE RETURNED TO CONTRACTOR MARKED REVISE AND RESUBMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS WHICH MAY RESULT.					CONCRETE MASONRY UNITS (CMU) NOTES																			
T																														
S																														
R																														
Q																														
P																														
N																														
M																														
L	SHOP DRAWING SUBMITTALS																													
K	1. THE REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS DONE BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER. THE REVIEW BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE ONLY. IF SHOP DRAWINGS HAVE NOT BEEN REVIEWED AND APPROVED BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER, THEY SHALL BE RETURNED WITHOUT APPROVAL. 2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY AND ALL ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF ALL SHOP DRAWINGS IN RELATIONSHIP TO THE CONSTRUCTION DOCUMENTS. 3. ALL MODIFICATIONS MADE FOR SUBMITTALS THAT ARE RE-SUBMITTED SHALL CLEARLY NOTE ALL CHANGES. 4. REPRODUCING THE CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS IS NOT ALLOWED, AND SHOP DRAWINGS WILL BE RETURNED WITHOUT APPROVAL. 5. GENERAL SHOP DRAWING REQUIREMENTS: A. SUBMIT SHOP DRAWINGS AND ANY OTHER SPECIAL INFORMATION NECESSARY FOR PROPER FABRICATION, ERECTION, AND PLACEMENT OF STRUCTURAL FABRICATIONS. INCLUDE PLANS, ELEVATIONS, AND SECTIONS CLEARLY SHOW ANCHORAGES, CONNECTIONS, AND ACCESSORY ITEMS. THE DETAILER MUST INTERPRET THE CONTRACT DOCUMENTS AND CLEARLY CONVEY THIS INTERPRETATION TO THE FIELD IN THE FORM OF PLACING OR ERECTION DRAWINGS. B. CONCRETE AND CMU REINFORCING DETAILER- PROVIDE PLACING DRAWINGS FOR FABRICATION AND PLACING OF REINFORCING STEEL. THESE DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: BAR LISTS, SCHEDULES, BENDING DETAILS, PLACING DETAILS, PLACING PLANS, AND PLACING ELEVATIONS. a. CLEARLY SHOW ELEVATIONS OF ALL BEARING AND SHEAR WALLS. INDICATE OPENINGS, DETAILS OF ALL REINFORCING WITH LOCATIONS OF SPLICES AND HOOKS, CONTROL JOINTS, EXPANSION JOINTS, LINTELS, BOND BEAMS, AND PILASTERS. b. CLEARLY SHOW BEAM ELEVATIONS AND SECTIONS. INDICATE BAR LENGTHS, HOOKS, STIRRUP SPACING, LAP SPLICES, OFFSETS, AND LOCATION OF BARS WITH RESPECT TO ALL SUPPORTS. c. CLEARLY SHOW FOUNDATION REINFORCING. INDICATE BAR LENGTHS, LOCATION AND SPLICES OF CONTINUOUS BARS, AND BAR SUPPORTS. CLEARLY SHOW LOCATIONS OF ALL DOWELS ON PLAN. INDICATE FOOTING STEP LOCATIONS AND PROVIDE DETAILS.																													
J																														
H																														
G																														
F																														
E																														
D																														
C																														
B																														
A																														



MEI project: 2022-BID

REV. #	REVISION DESCRIPTION

SANTA ROSA COUNTY LANDFILL MAINTENANCE FACILITY
 MILTON, FLORIDA

DESIGNED BY:
DJM
DRAWN BY:
WEH
CHECKED BY:
DJM
DATE:
AUGUST 2022

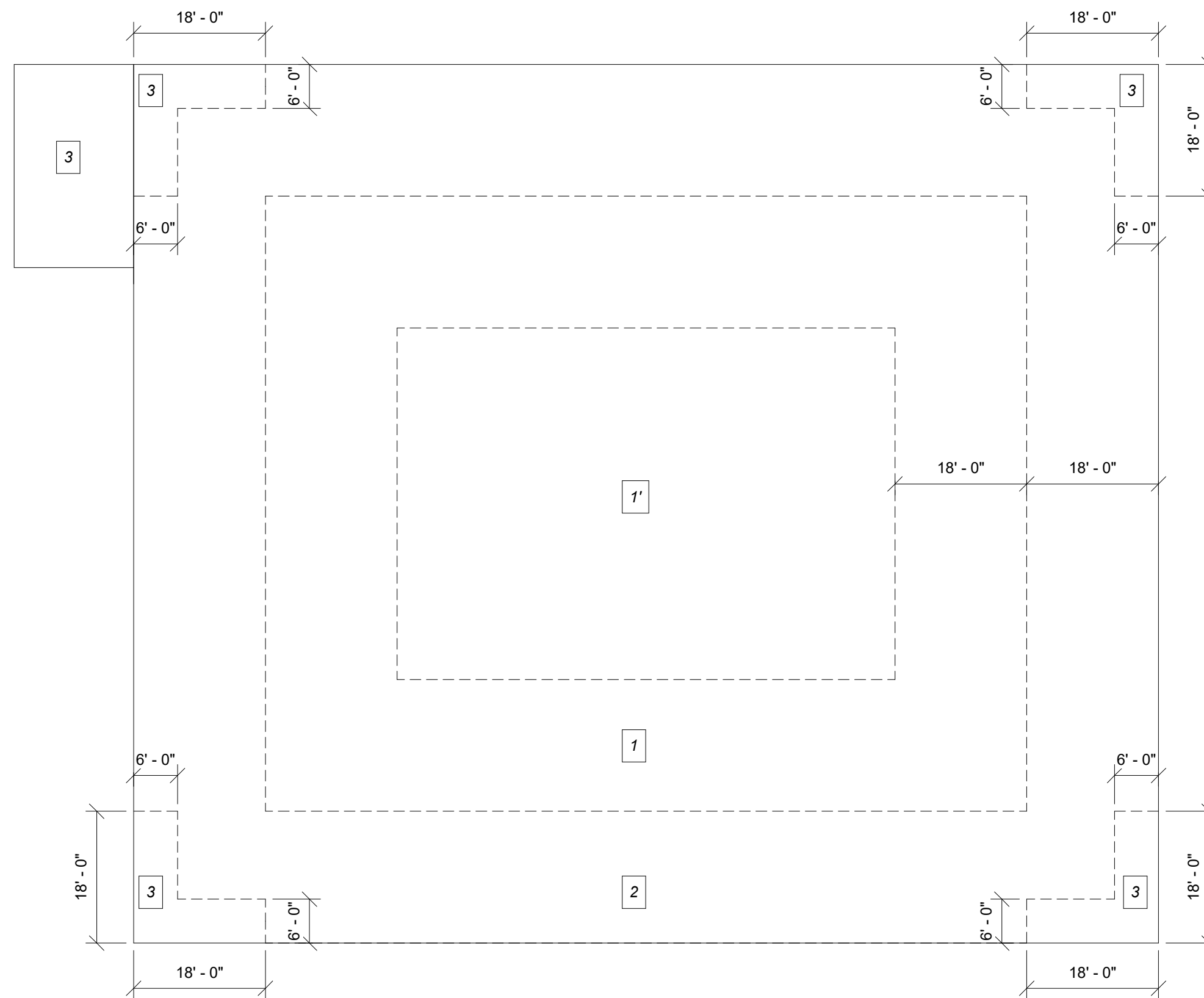
SHEET TITLE:

GENERAL NOTES
SHEET:
S-001

SHEET: 1 OF 6

CONTRACTOR TO REVIEW RFP FOR ADDITIONAL SCOPE AND STRUCTURAL FEATURES. DESIGN FOR BID ONLY.

ROOF WIND PRESSURE DIAGRAM



COMPONENTS AND CLADDING WIND

INTERNAL PRESSURE COEFFICIENT = +/-0.18

ZONE (SEE FIGURE)	WIND PRESSURE (+) / SUCTION (-) IN POUNDS PER SF					
	EFFECTIVE WIND AREA (FEET SQUARE)					
	10	20	50	100		
ROOF ZONE 1						
ROOF ZONE 1'	22.1	-49.8	20.7	-49.8	17.5	-49.8
ROOF ZONE 2		-114.3		-106.9		-89.9
ROOF ZONE 3		-155.8		-141.1		-106.9
WALL ZONE 4	49.8	-53.9	47.6	-51.7	44.6	-48.8
WALL ZONE 5	49.8	-66.4	47.6	-61.9	44.6	-56.1

NOTES:

- POSITIVE SIGN INDICATES THAT THE PRESSURE IS ACTING TOWARDS THE SURFACE. NEGATIVE SIGN INDICATES THAT THE PRESSURE IS ACTING AWAY FROM THE STRUCTURE.
- THE WIND LOADS SHOWN HAVE BEEN CALCULATED FLORIDA BUILDING CODE 2020 EDITION W/ HVHZ AND ASCE 7-16. LINEAR INTERPRETATION MAY BE APPLIED FOR LOADING AREAS BETWEEN THE PROVIDED LOADS SHOWN ARE ULTIMATE LOADS AND MAY BE FACTORED BY 0.6 WHEN APPLICABLE TO REDUCE TO ASD LOADING PRESSURES.

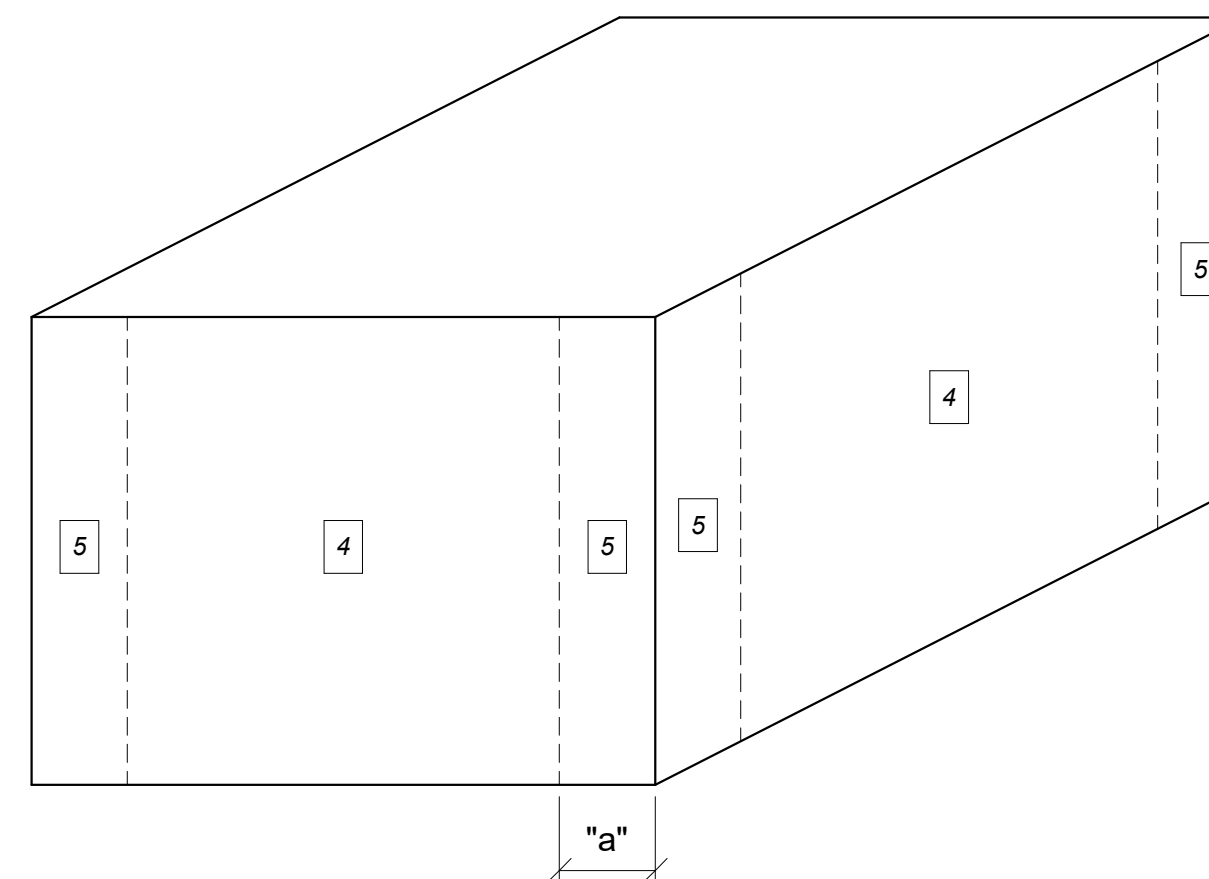
MAIN WIND FORCE RESISTING WIND LOAD

INTERNAL PRESSURE COEFFICIENT = +/-0.18

MAIN WIND FORCE RESISTING SYSTEM PRESSURES		
WIND VELOCITY	ROOF ENCLOSED	WALL ENCLOSED
(MPH)	(PSF)	(PSF)
147	-43.6	50.9

WALL WIND PRESSURE DIAGRAM

NOTE: a=12'-0"



LIGHT GAUGE GALVANIZED METAL STUDS (IF REQUIRED)

GENERAL REQUIREMENTS

- COLD-FORMED METAL FRAMING SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS."
- COLD-FORMED METAL STUDS GALVANIZED G60 COATING MEETING THE REQUIREMENTS OF ASTM A446 GRADE A WITH A MINIMUM YIELD STRENGTH AS SPECIFIED BELOW SHALL BE PRODUCED BY A MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
- JOINTS AND CONNECTIONS SHALL BE MADE WITH SCREWS OR BOLTS. UNLESS NOTED ON THE DRAWINGS, PROVIDE SUFFICIENT NUMBER OF SCREWS AT EACH CONNECTION TO SUPPORT ALL APPLIED LOADS.
- PROVIDE HILTI POWDER-ACTUATED, UNIVERSAL KNURLED SHANK FASTENERS (X-U) AS SPECIFIED ON PLAN TO ATTACH COLD-FORM FRAMING TO SUBSTRATES. PROVIDE SUFFICIENT NUMBER OF FASTENERS TO TRANSFER LOAD.
- SPLICING OF STUDS AND JOISTS SHALL NOT BE PERMITTED.
- THE MINIMUM YIELD STRENGTH FOR 16 GAUGE AND HEAVIER MATERIAL IS 50 KSI AND FOR 18 GAUGE AND LIGHTER, THE MINIMUM YIELD STRENGTH IS 33 KSI, U.N.O.
- FIELD CUTTING OF LIGHT GAGE METAL FRAMING SHALL BE BY SAW OR SHEAR. TORCH CUTTING IS NOT AN ACCEPTABLE METHOD.
- ALL TRACK SHALL BE THE SAME GAGE AS THE THICKEST STUD WITH A MINIMUM OF 1-1/4" LEG, U.N.O.
- LIGHT GAGE FRAMING MEMBERS, CONNECTIONS, & BRACING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE SPECIALTY ENGINEER SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS WITH CALCULATIONS. SHOP DRAWINGS SHALL INDICATE REACTIONS, DESIGN INFORMATION AND ALL APPLICABLE STRUCTURAL INFORMATION.
- LIGHT GAGE FRAMING SHALL BE DESIGNED BY THE SPECIALTY ENGINEER TO SUPPORT HTE LOADS INDUCED BY BOTH GRAVITY AND HORIZONTAL FORCES. VERIFY ALL LOADING REQUIREMENTS WITH THE STRUCTURAL ENGINEER AND ARCHITECT. CONNECTIONS BETWEEN MEMBERS SHALL BE DESIGNED BY THE SPECIALTY ENGINEER.

FASTENING OF LIGHT GAGE FRAMING

- FASTENING OF COMPONENTS TOGETHER SHALL BE WITH SELF-DRILLING SCREWS OR WELDING AND/OR INDICATED ON THE DRAWINGS. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO ENSURE STRENGTH OF THE CONNECTION. ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.
- RUNNERS OR CLIP ANGLES SHALL BE ANCHORED TO THE SUPPORTING STRUCTURE AS NECESSARY TO PROVIDE SUFFICIENT STRENGTH AND SUPPORT.
- USE #10-16, 5/8" LONG, LOW PROFILE HEAD SCREWS FOR ALL STEEL TO STEEL CONNECTIONS EXCEPT AS NOTED ON PLANS AND DETAILS FOR 18 GA. STEEL. FOR 16 GA. METAL USE #12-14 SCREWS.
- A 3/4" (MINIMUM) CLEARANCE MUST BE MAINTAINED FROM ALL EDGES OF THE STEEL MEMBERS IN LOCATING SCREWS. A 3/4" (MINIMUM) ON CENTER SPACING MUST BE MAINTAINED BETWEEN ADJACENT SCREWS.
- ALL SCREW RECOMMENDATIONS ARE BASED ON CCFSS TECHNICAL BULLETIN VOL. 2, NO. 1 WHICH OUTLINES THE PROPOSED AISI SPECIFICATION PROVISIONS FOR SCREW CONNECTIONS, AND ALLOWABLE SCREW SHEAR STRENGTH VALUES PUBLISHED BY BUILDEX, COMPASS AND GRABBER.
- SCREWS SHALL MEET MIN. REQUIREMENTS OF SAE J-429 GRADE 5 AND IFI-105. SCREWS SHALL HAVE A PROTECTIVE COATING EQUIVALENT TO CADMIUM OR ZINC PLATING, ASTM B766.
- FOR ATTACHMENTS OF SINGLE-LAYER 1/2" OR 5/8" GYPSUM BOARD OR SHEATHING TO STEEL STUDS AND JOISTS USE #10-16 SCREWS, 1" LONG BUGLE HEAD SCREWS OR AS REQUIRED BY THE ARCHITECT.

PRE-ENGINEERED METAL BUILDING

- THE METAL BUILDING SHALL BE DESIGNED AND INSTALLED ACCORDING TO THE LATEST METAL BUILDING STRUCTURAL CODE(S) AND SPECIFICATION REQUIREMENTS.
- THE M.B.M. SHALL PROVIDE CALCULATIONS WHICH ARE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA. THIS REGISTERED ENGINEER SHALL BE RESPONSIBLE FOR ALL COMPONENTS RELATED THE SUPERSTRUCTURE.
- CALCULATIONS PROVIDED TO THE EOR FOR REVIEW SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS, DEAD LOADS, LIVE LOADS, AND ALL SUPERIMPOSED LOADS. TOTAL BUILDING DRIFT SHALL NOT EXCEED H/100. TOTAL DEFLECTION OF WIND BEAMS AND SOFFIT PANELS SHALL NOT EXCEED L/120 FOR SHEET ROCK AND L/180 FOR METAL PANELS. ANY MEMBER SUPPORTING MASONRY OR BRICK SHALL NOT EXCEED L/600.
- PROVIDE SUPPORT FOR ALL WALLS BY CONTRACTOR AT EAVES AND DESIGN FRAMES FOR WIND LOAD INDUCED BY WALLS ACCORDING TO THE WIND LOADS PROVIDED. THIS SHALL BE PROVIDED BY THE MBM SPECIALTY ENGINEER.
- ALL EXTERIOR STEEL TO BE HOT DIP GALVANIZED.

BID DOCUMENT NOTES:

- THE STRUCTURAL DESIGN IS NOT COMPLETE AT THIS TIME. THE INFORMATION SHOWN IS FOR BID ASSISTANCE ONLY. MINIMUM CONCRETE WALL THICKNESS SHALL BE 8". SEE RFP FOR ALL ELEMENTS REQUIRED FOR FOUNDATION DESIGN. CONTRACTOR TO PRICE ADDITIONAL ELEMENTS REQUIRED BY THE RFP.
- PROVIDE ADDITIONAL 5% ADDITIONAL TONNAGE OF REINFORCING STEEL AND 5% CUBIC YARDS OF ADDITIONAL CONCRETE FOR PLACEMENT AFTER AWARD.



MEI project: 2022-BID

REV. #	REVISION DESCRIPTION

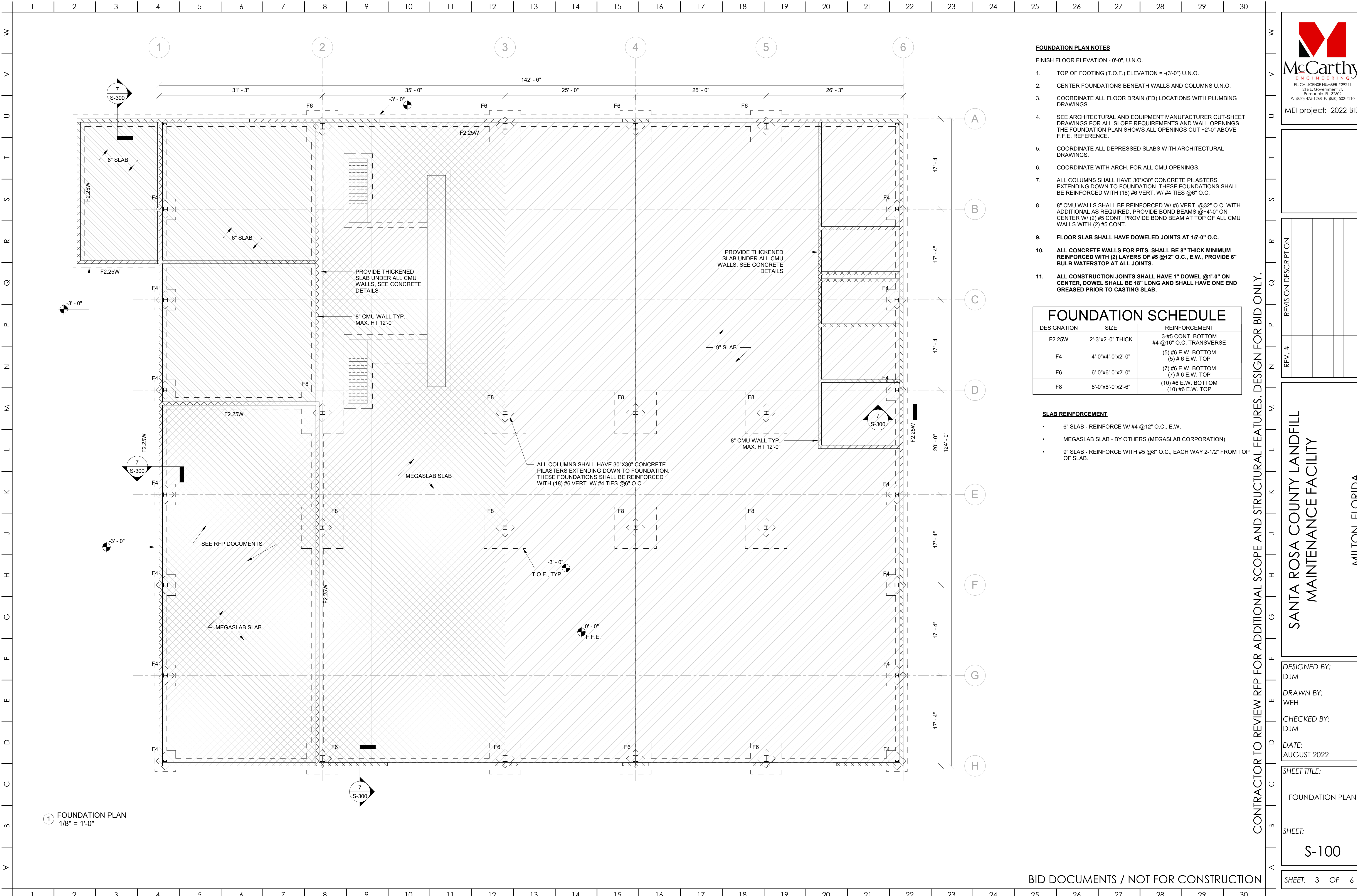
SANTA ROSA COUNTY LANDFILL MAINTENANCE FACILITY
 MILTON, FLORIDA

DESIGNED BY: DJM
 DRAWN BY: WEH
 CHECKED BY: DJM
 DATE: AUGUST 2022

SHEET TITLE:
 GENERAL NOTES & WIND PRESSURES
 SHEET:
S-002

SHEET: 2 OF 6

CONTRACTOR TO REVIEW RFP FOR ADDITIONAL SCOPE AND STRUCTURAL FEATURES. DESIGN FOR BID ONLY.



- FOUNDATION PLAN NOTES**
- FINISH FLOOR ELEVATION - 0'-0", U.N.O.
- TOP OF FOOTING (T.O.F.) ELEVATION = -(3'-0") U.N.O.
 - CENTER FOUNDATIONS BENEATH WALLS AND COLUMNS U.N.O.
 - COORDINATE ALL FLOOR DRAIN (FD) LOCATIONS WITH PLUMBING DRAWINGS
 - SEE ARCHITECTURAL AND EQUIPMENT MANUFACTURER CUT-SHEET DRAWINGS FOR ALL SLOPE REQUIREMENTS AND WALL OPENINGS. THE FOUNDATION PLAN SHOWS ALL OPENINGS CUT +2'-0" ABOVE F.F.E. REFERENCE.
 - COORDINATE ALL DEPRESSED SLABS WITH ARCHITECTURAL DRAWINGS.
 - COORDINATE WITH ARCH. FOR ALL CMU OPENINGS.
 - ALL COLUMNS SHALL HAVE 30"x30" CONCRETE PILASTERS EXTENDING DOWN TO FOUNDATION. THESE FOUNDATIONS SHALL BE REINFORCED WITH (18) #6 VERT. W/ #4 TIES @6" O.C.
 - 8" CMU WALLS SHALL BE REINFORCED W/ #6 VERT. @32" O.C. WITH ADDITIONAL AS REQUIRED. PROVIDE BOND BEAMS @+4'-0" ON CENTER W/ (2) #5 CONT. PROVIDE BOND BEAM AT TOP OF ALL CMU WALLS WITH (2) #5 CONT.
 - FLOOR SLAB SHALL HAVE DOWELED JOINTS AT 15'-0" O.C.
 - ALL CONCRETE WALLS FOR PITS, SHALL BE 8" THICK MINIMUM REINFORCED WITH (2) LAYERS OF #5 @12" O.C., E.W., PROVIDE 6" BULB WATERSTOP AT ALL JOINTS.
 - ALL CONSTRUCTION JOINTS SHALL HAVE 1" DOWEL @1'-0" ON CENTER. DOWEL SHALL BE 18" LONG AND SHALL HAVE ONE END GREASED PRIOR TO CASTING SLAB.

FOUNDATION SCHEDULE

DESIGNATION	SIZE	REINFORCEMENT
F2.25W	2'-3"x2'-0" THICK	3-#5 CONT. BOTTOM #4 @16" O.C. TRANSVERSE
F4	4'-0"x4'-0"x2'-0"	(5) #6 E.W. BOTTOM (5) #6 E.W. TOP
F6	6'-0"x6'-0"x2'-0"	(7) #6 E.W. BOTTOM (7) #6 E.W. TOP
F8	8'-0"x8'-0"x2'-6"	(10) #6 E.W. BOTTOM (10) #6 E.W. TOP

- SLAB REINFORCEMENT**
- 6" SLAB - REINFORCE W/ #4 @12" O.C., E.W.
 - MEGASLAB SLAB - BY OTHERS (MEGASLAB CORPORATION)
 - 9" SLAB - REINFORCE WITH #5 @8" O.C., EACH WAY 2-1/2" FROM TOP OF SLAB.

McCarthy
ENGINEERING
FL. LICENSE NUMBER #29241
216 E. Government St.
Tallahassee, FL 32302
P: (850) 475-1268 F: (850) 802-4210
MEI project: 2022-BID

REV. #	REVISION DESCRIPTION

SANTA ROSA COUNTY LANDFILL
MAINTENANCE FACILITY
MILTON, FLORIDA

DESIGNED BY:
DJM
DRAWN BY:
WEH
CHECKED BY:
DJM
DATE:
AUGUST 2022

SHEET TITLE:
FOUNDATION PLAN
SHEET:
S-100

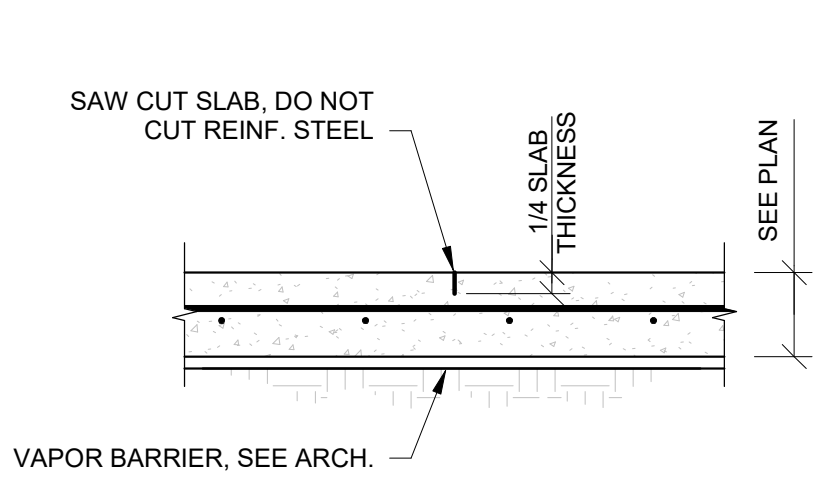
SHEET: 3 OF 6

1 FOUNDATION PLAN
1/8" = 1'-0"

CONTRACTOR TO REVIEW RFP FOR ADDITIONAL SCOPE AND STRUCTURAL FEATURES. DESIGN FOR BID ONLY.

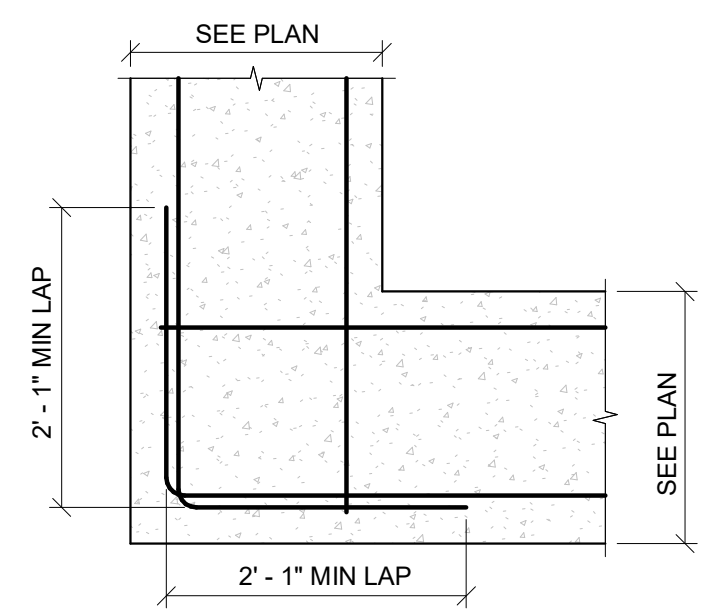
SLAB CONTRACTION JOINT NOTES

1. STORE REINFORCEMENT OF DIFFERENT SIZES AND SHAPES IN SEPARATE PILES OR RACKS RAISED ABOVE THE GROUND TO AVOID EXCESSIVE RUSTING. PROTECT FROM CONTAMINANTS SUCH AS GREASE, OIL, AND DIRT. ENSURE BAR SIZES CAN BE ACCURATELY IDENTIFIED AFTER BUNDLES ARE BROKEN AND TAGS REMOVED.
2. SUBMIT PROPOSED MATERIALS, METHODS AND DURATION FOR CURING CONCRETE ELEMENTS IN ACCORDANCE WITH ACI 308.1.
3. SUBMIT PROPOSED MATERIAL AND PROCEDURES TO BE USED IN OBTAINING THE FINISH FOR THE SLAB ON GRADE FLOORS. INCLUDE QUALIFICATION OF PERSON TO BE USED FOR OBTAINING FLOOR TOLERANCE MEASUREMENT, DESCRIPTION OF MEASURING EQUIPMENT TO BE USED, AND A SKETCH SHOWING LINES AND LOCATIONS THE MEASURING EQUIPMENT WILL FOLLOW.
4. AIR CONTENT: DO NOT ALLOW AIR CONTENT OF TROWEL-FINISHED FLOORS TO EXCEED 3 PERCENT.
5. REINFORCING BAR SUPPORTS: SUPPORTS INCLUDE BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES NECESSARY FOR PROPER SPACING, SUPPORTING, AND FASTENING REINFORCING BARS AND WELDED WIRE REINFORCEMENT IN PLACE. PROVIDE WIRE BAR TYPE SUPPORTS OF COATED OR NON-CORRODIBLE MATERIAL CONFORMING TO ACI SP-66 AND CRS1 10MSP.
6. EXAMINATION: DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY CONSTRUCTED; VERIFY THAT SUBSTRATES ARE LEVEL. CHECK FIELD DIMENSIONS BEFORE BEGINNING INSTALLATION. IF DIMENSIONS VARY FROM DESIGN DIMENSIONS FOR PROPER INSTALLATION, NOTIFY ARCHITECT/ENGINEER AND WAIT FOR INSTRUCTIONS BEFORE BEGINNING INSTALLATION.
7. PREPARATION NOTE: SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED MUST BE FREE OF DEBRIS, LOOSE MATERIAL, STANDING WATER, ICE, AND OTHER DELETERIOUS SUBSTANCES BEFORE START OF CONCRETE PLACING. REMOVE STANDING WATER WITHOUT WASHING OVER FRESHLY DEPOSITED CONCRETE. PROVIDE FLOW OF WATER FOR SIDE DRAINS PROVIDED FOR SUCH PURPOSE. WHEN SUBGRADE MATERIAL IS SEMIPOROUS AND DRY, SPRINKLE SUBGRADE SURFACE WITH WATER AS REQUIRED TO ELIMINATE SUCTION AT THE TIME CONCRETE IS DEPOSITED, OR SEAL SUBGRADE SURFACE BY COVERING SURFACE WITH SPECIFIED VAPOR RETARDER. WHEN SUBGRADE MATERIAL IS POROUS, SEAL SUBGRADE SURFACE BY COVERING SURFACE WITH SPECIFIED VAPOR RETARDER. SUBGRADE UNDER SLABS ON GROUND.
8. BEFORE CONSTRUCTION OF SLABS ON GROUND, HAVE UNDERGROUND WORK ON PIPES AND CONDUITS COMPLETED AND APPROVED. PREVIOUSLY CONSTRUCTED SUBGRADE OR FILL MUST BE CLEANED OF FOREIGN MATERIALS. FINISH SURFACE OF CAPILLARY WATER BARRIER UNDER INTERIOR SLABS ON GROUND MUST NOT SHOW DEVIATION IN EXCESS OF 1/4 INCH WHEN TESTED WITH A 10-FOOT STRAIGHTEDGE PARALLEL WITH AND AT RIGHT ANGLES TO BUILDING LINES. FINISHED SURFACE OF SUBGRADE OR FILL UNDER EXTERIOR SLABS ON GROUND MUST NOT BE MORE THAN 0.02-FOOT ABOVE OR 0.10-FOOT BELOW ELEVATION INDICATED BY CIVIL.
9. SECURE REINFORCEMENT, JOINT MATERIALS, AND OTHER EMBEDDED MATERIALS IN POSITION, INSPECTED, AND APPROVED BEFORE START OF CONCRETE PLACING.
10. PROVIDE BARS, WELDED WIRE REINFORCEMENT, WIRE TIES, SUPPORTS, AND OTHER DEVICES NECESSARY TO INSTALL AND SECURE REINFORCEMENT. REINFORCEMENT MUST NOT HAVE RUST, SCALE, OIL, GREASE, CLAY, OR FOREIGN SUBSTANCES THAT WOULD REDUCE THE BOND. RUSTING OF REINFORCEMENT IS A BASIS OF REJECTION IF THE EFFECTIVE CROSS-SECTIONAL AREA OR THE NOMINAL WEIGHT PER UNIT LENGTH HAS BEEN REDUCED. REMOVE LOOSE RUST PRIOR TO PLACING STEEL. TACK WELDING IS PROHIBITED.
11. INSTALL IN ACCORDANCE WITH ASTM E1643. PROVIDE BENEATH THE ON-GRADE CONCRETE FLOOR SLAB. USE THE GREATEST WIDTHS AND LENGTHS PRACTICABLE TO ELIMINATE JOINTS WHEREVER POSSIBLE. LAP JOINTS A MINIMUM OF 12 INCHES AND TAPE. REMOVE TORN, PUNCTURED, OR DAMAGED VAPOR RETARDER MATERIAL AND PROVIDE WITH NEW VAPOR RETARDER PRIOR TO PLACING CONCRETE. CONCRETE PLACEMENT MUST NOT DAMAGE VAPOR RETARDER.
12. REPAIR SURFACE DEFECTS IN ACCORDANCE WITH ACI 301 SECTION 5.
13. CONSTRUCTION JOINTS: MAKE AND LOCATE JOINTS NOT INDICATED SO AS NOT TO IMPAIR STRENGTH AND APPEARANCE OF THE STRUCTURE. AS APPROVED, JOINTS MUST BE PERPENDICULAR TO MAIN REINFORCEMENT. REINFORCEMENT MUST BE CONTINUED AND DEVELOPED ACROSS CONSTRUCTION JOINTS.
14. SAWCUTTING WILL BE LIMITED TO WITHIN 12 HOURS AFTER SET AND AT 1/4 SLAB DEPTH.
15. CONTRACTION AND CONTROL JOINTS WHICH ARE TO RECEIVE FINISH FLOORING MATERIAL MUST BE SEALED WITH JOINT SEALING COMPOUND AFTER CONCRETE CURING PERIOD. SLIGHTLY UNDERFILL GROOVE WITH JOINT SEALING COMPOUND TO PREVENT EXTRUSION OF COMPOUND. REMOVE EXCESS MATERIAL AS SOON AFTER SEALING AS POSSIBLE.

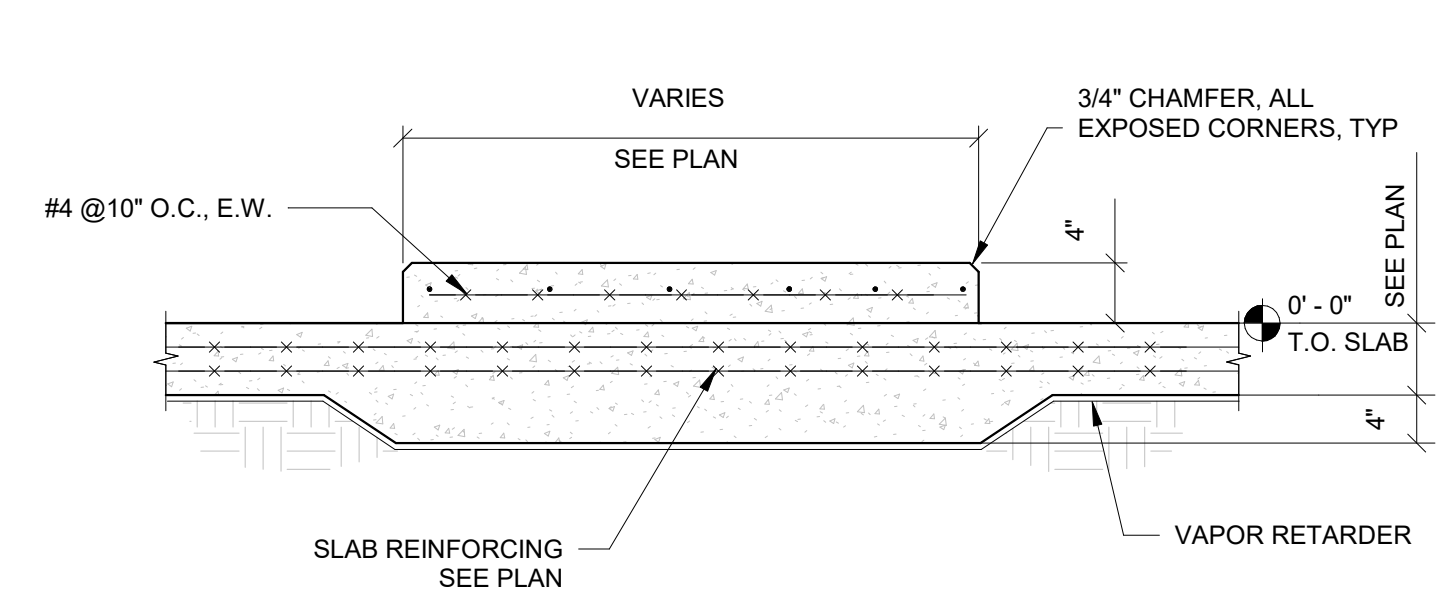


NOTES:
1. IN LIEU OF CONTRACTION JOINT CONTRACTOR MAY USE CONSTRUCTION JOINT, CONTRACTOR'S OPTION.

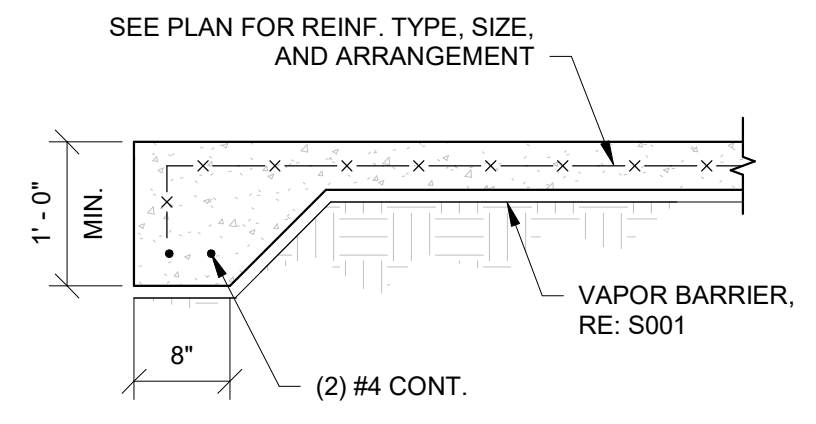
① **CONTRACTION JOINT (C.J.)**
3/4" = 1'-0"



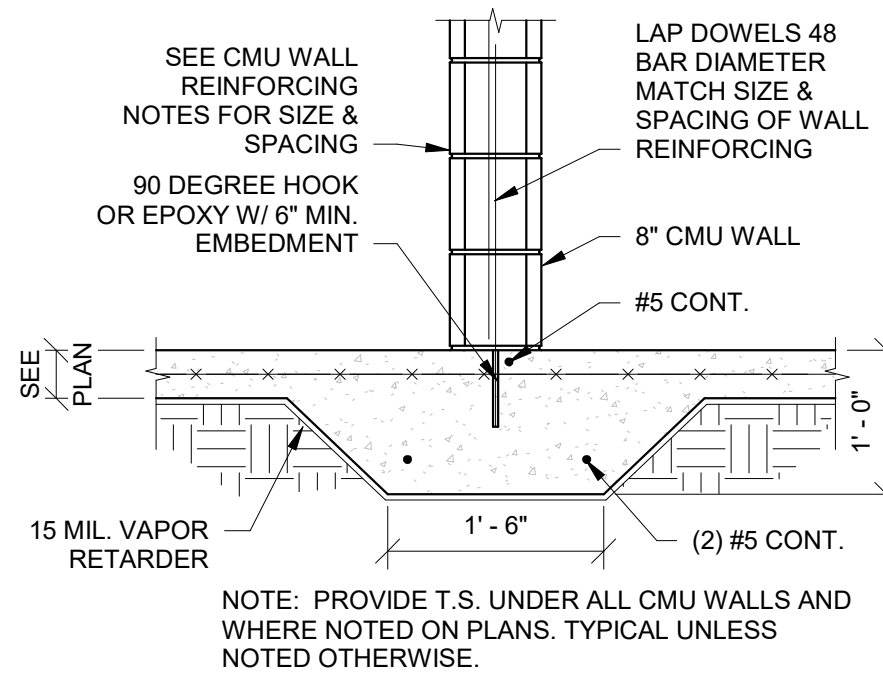
② **FOUNDATION REINF. @ CORNER**
3/4" = 1'-0"



③ **HOUSEKEEPING SLAB**
3/4" = 1'-0"



④ **SLAB TURNDOWN**
3/4" = 1'-0"

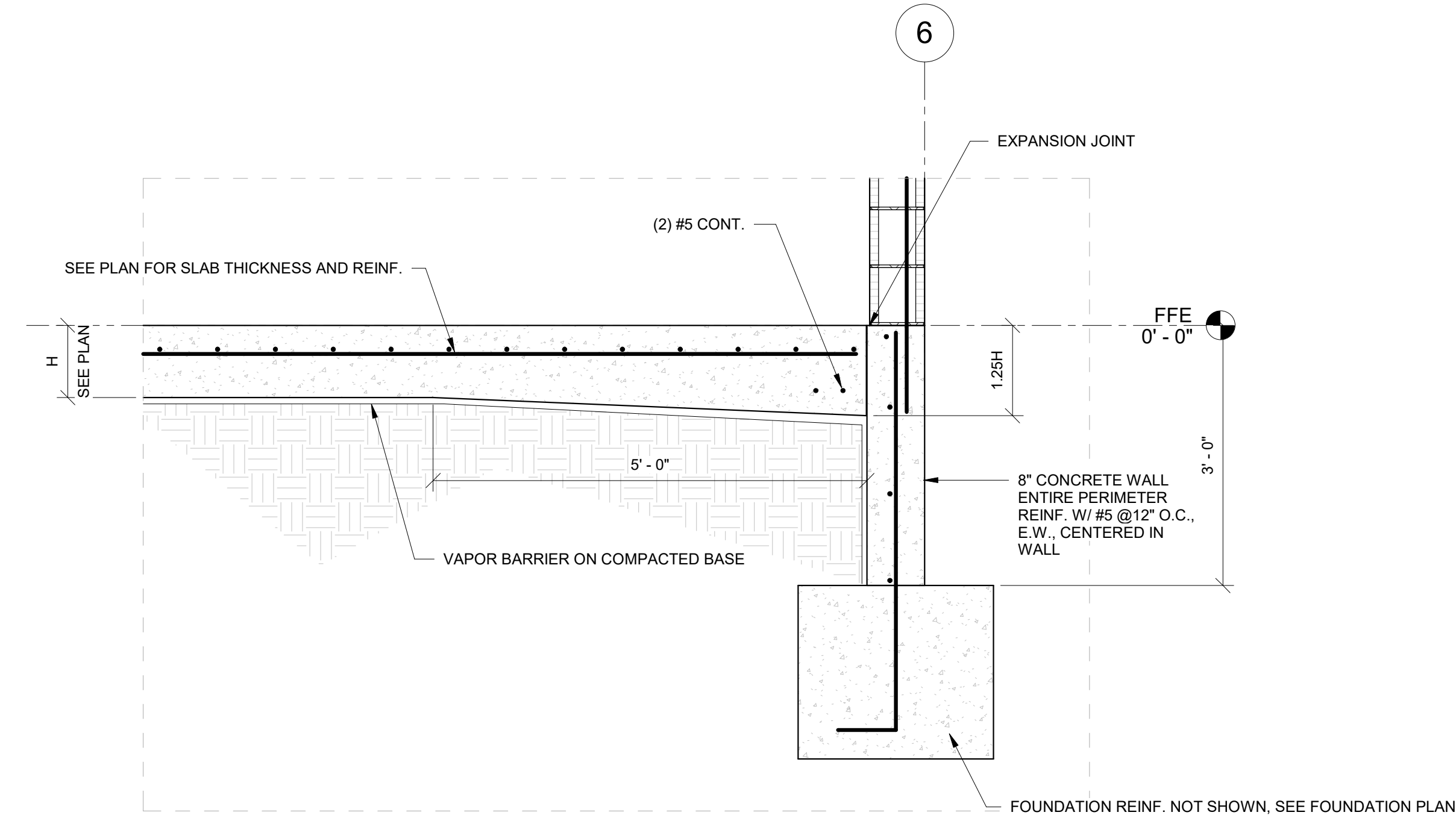


⑤ **TYPICAL THICKENED SLAB**
3/4" = 1'-0"

TENSION DEVELOPMENT AND LAP SPLICE LENGTHS FOR BARS IN WALLS, SLABS AND FOOTINGS (ACI 25.4.2.3)

BAR SIZE	CONCRETE COVER = 0.75 IN.		CONCRETE COVER = 1.5 IN.		CONCRETE COVER = 2.0 IN.		CONCRETE COVER = 3.0 IN.	
	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
#4	28	22	23	17	23	17	23	17
#5	41	32	28	22	28	22	28	22
#6	56	43	34	26	34	26	34	26
#7	90	69	55	43	49	38	49	38
#8	86	66	54	41	43	33	43	33
#9	135	104	86	66	69	53	63	48
#10	162	125	105	81	85	66	71	55

⑥ **REINF. LAP SCHEDULE**
3/4" = 1'-0"



⑦ **SLAB AT WALL DETAIL**
3/4" = 1'-0"

McCarthy
ENGINEERING
FL. CA LICENSE NUMBER #29241
216 E. Government St.
Pensacola, FL 32502
P: (850) 475-1288 F: (850) 602-4210
MEI project: 2022-BID

REV. #	REVISION DESCRIPTION

REV. #	REVISION DESCRIPTION

**SANTA ROSA COUNTY LANDFILL
MAINTENANCE FACILITY**

MILTON, FLORIDA

DESIGNED BY:
DJM
DRAWN BY:
WEH
CHECKED BY:
DJM
DATE:
AUGUST 2022

SHEET TITLE:
CONCRETE DETAILS
SHEET:
S-300

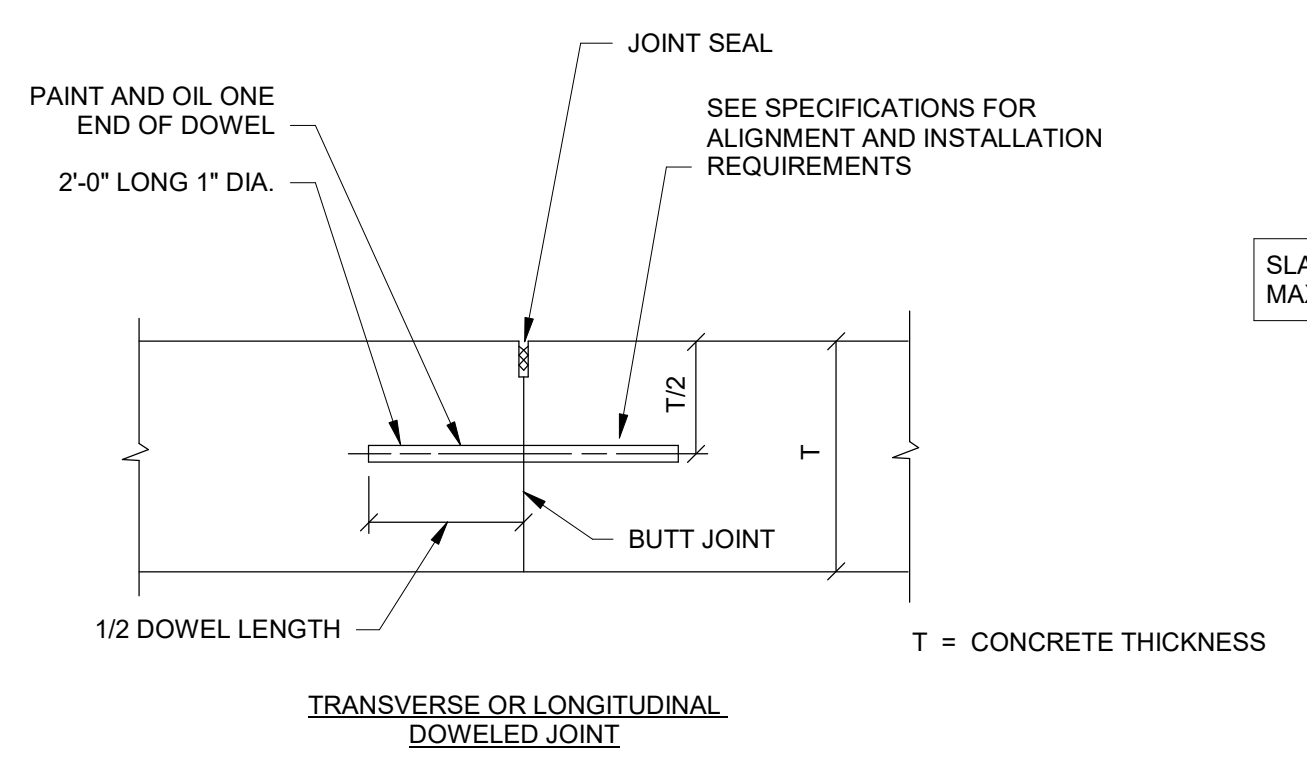
SHEET: 4 OF 6

CONTRACTOR TO REVIEW RFP FOR ADDITIONAL SCOPE AND STRUCTURAL FEATURES. DESIGN FOR BID ONLY.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

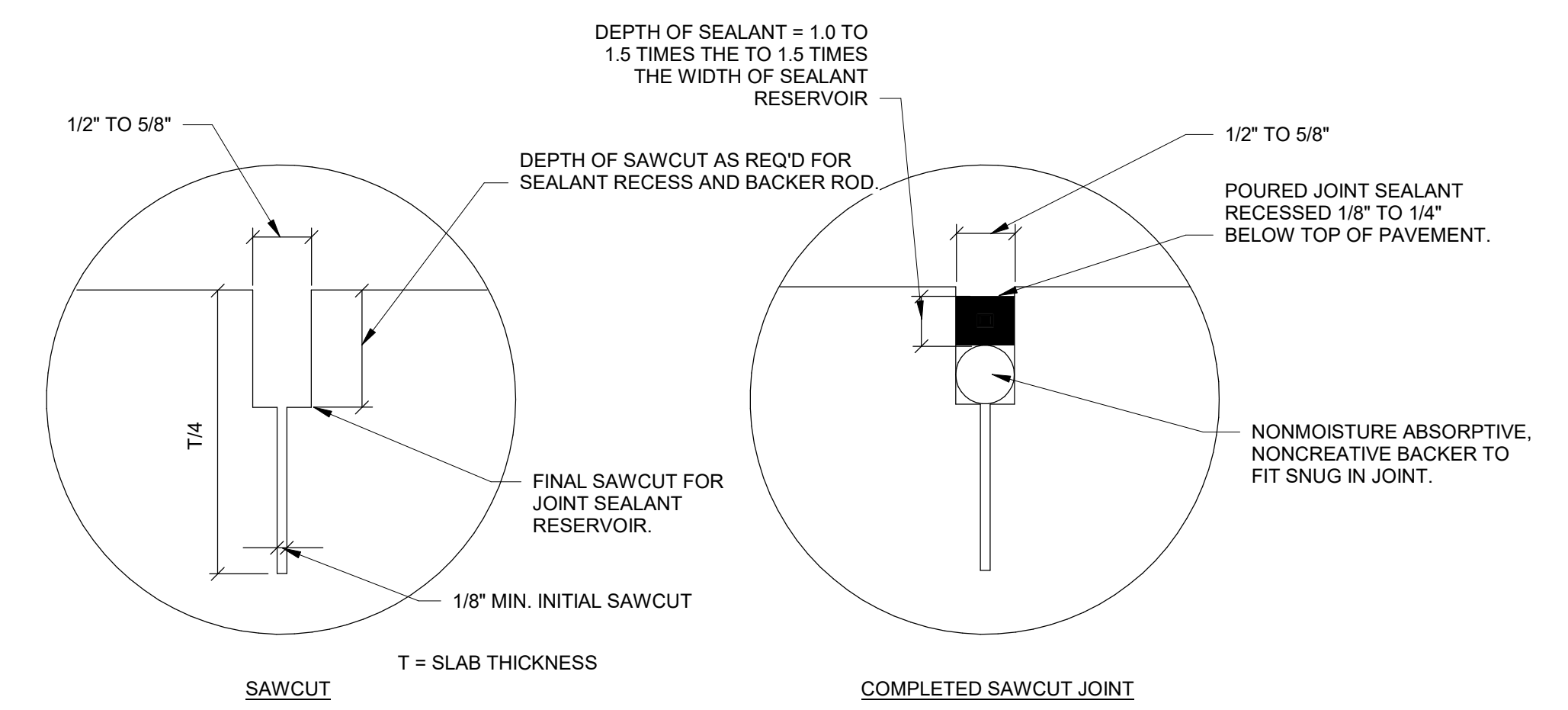
W
V
U
T
S
R
Q
P
N
M
L
K
J
H
G
F
E
D
C
B
A

W
V
U
T
S
R
Q
P
N
M
L
K
J
H
G
F
E
D
C
B
A



SLAB SHALL BE JOINTED @15'-0" MAX JOINT SPACING

1 CONTRACTION JOINT DETAILS
3/4" = 1'-0"



2 CONTRACTION JOINT SEALANT DETAILS
(SAWED TYPE)
3/4" = 1'-0"

McCarthy
ENGINEERING
FL. CA LICENSE NUMBER #29241
216 E. Government St.
Pensacola, FL 32502
P: (850) 475-1268 F: (850) 602-4210

MEI project: 2022-BID

REV. #	REVISION DESCRIPTION

**SANTA ROSA COUNTY LANDFILL
MAINTENANCE FACILITY**

MILTON, FLORIDA

DESIGNED BY:
DJM

DRAWN BY:
WEH

CHECKED BY:
DJM

DATE:
AUGUST 2022

SHEET TITLE:
CONCRETE DETAILS

SHEET:
S-301

SHEET: 5 OF 6

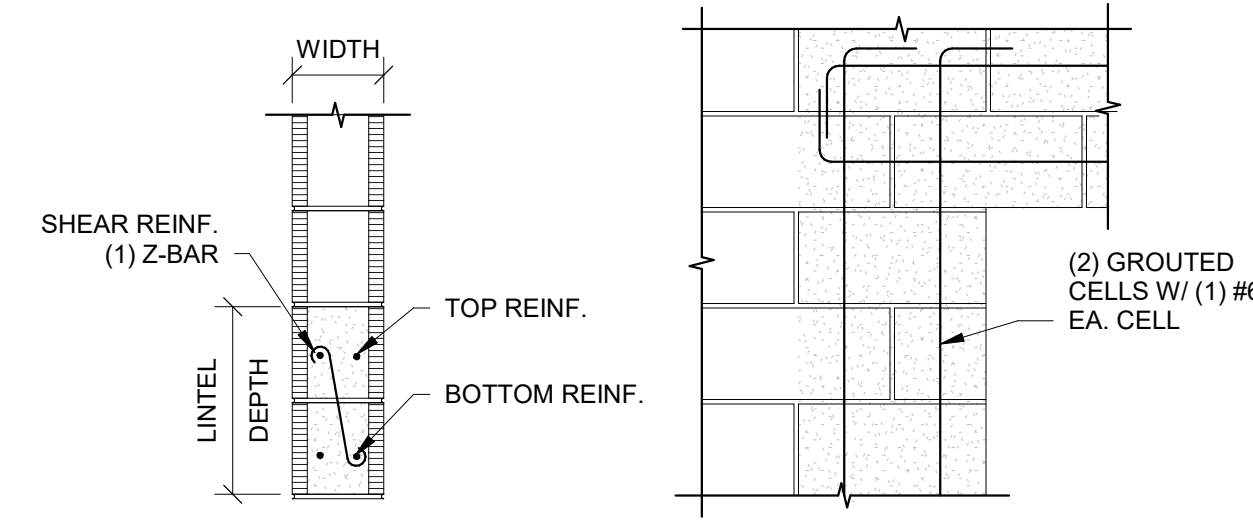
CONTRACTOR TO REVIEW RFP FOR ADDITIONAL SCOPE AND STRUCTURAL FEATURES. DESIGN FOR BID ONLY.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

ADDITIONAL CMU NOTES

- ALL VERTICAL REINFORCING SHALL EXTEND INTO THE UPPERMOST BOND BEAM AND WHERE TERMINATES PROVIDE A 90° HOOK WITH MINIMUM 8" LEG.
- ADDITIONAL REINFORCEMENT IN CONJUNCTION WITH TYPICAL VERTICAL WALL REINFORCEMENT SHALL BE PROVIDED AS FOLLOWS: PROVIDE (3) FILLED CELLS OF TYPICAL WALL REINFORCEMENT AT CORNERS, PROVIDE (2) FILLED CELLS OF TYPICAL WALL REINFORCEMENT EACH SIDE OF OPENING (U.N.O.), PROVIDE (1) FILLED CELL OF WALL REINFORCEMENT ON EITHER SIDE OF MASONRY CONTROL JOINTS. PROVIDE (5) FILLED CELLS OF TYPICAL WALL REINFORCEMENT AT CORNERS.
- FOR 8" CMU REINF. W/ #6 @32" O.C., VERT. PROVIDE 8" DEEP BOND BEAMS AT @ 4'-0" O.C., VERTICALLY (MAX) W/ (2) #5 CONT., TYP., U.N.O. PLACE CONCRETE MASONRY UNITS IN RUNNING BOND PATTERN.
- HORIZONTAL JOINT REINFORCING FOR CMU WALL SHALL BE NORMAL DUTY 9 GA. SIDE RODS WITH 9GA. CROSS MEMBERS. WALL REINFORCEMENT SHALL BE CONSTRUCTED IN LADDER TYPE REINFORCEMENT AND SPACED AT 16" O.C., VERTICALLY.
- PROVIDE MINIMUM 8" DEEP BOND BEAM UNDER NOTED WINDOW OPENINGS, IF REQUIRED ON PLAN, BOND BEAM SHALL BE REINFORCED W/ (2) #5 AND EXTEND REINFORCING 2'-0" PAST EA. SIDE OF OPENING, TYPICAL.
- SPLICE ALL REINFORCEMENT WITH MIN. 48 BAR DIAMETER SPLICES.

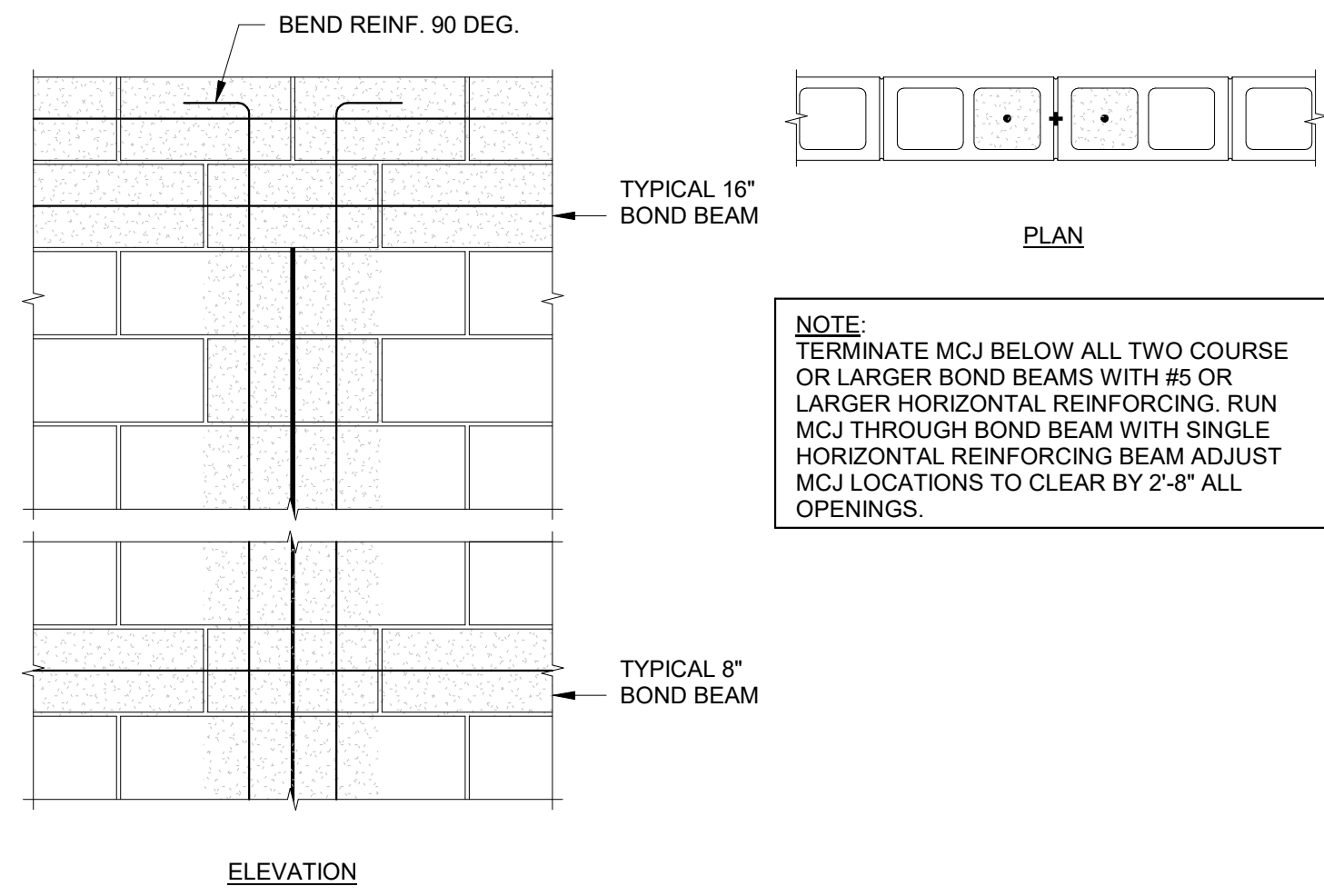
- NOTES:**
- PROVIDE MINIMUM 8" BEARING FOR ALL LINTELS THAT ARE 16" DEEP OR LESS THAN 16".
 - PROVIDE MINIMUM 16" BEARING FOR ALL LINTELS THAT ARE GREATER THAN 16" DEEP.
 - HOT DIP GALVANIZE ALL EXPOSED STRUCTURAL STEEL, INCLUDING; ANGLES, THREADED RODS, BOLTS, NUTS WASHERS, ETC., IF REQUIRED.



CMU & CONC. LINTEL SCHEDULE

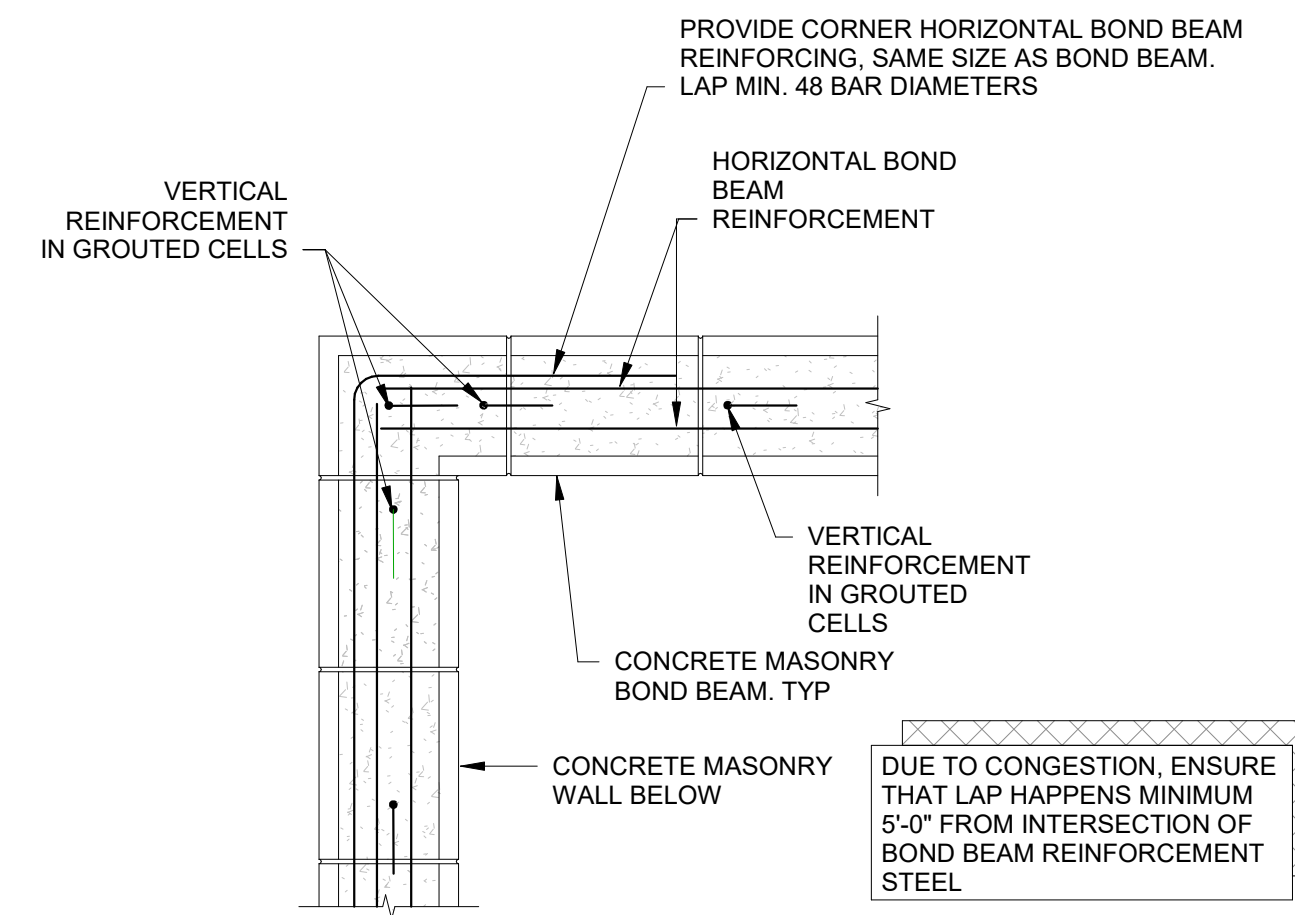
SPAN	LINTEL SIZE (WIDTH x DEPTH)	REINFORCING SIZE AND ARRANGEMENT		
		TOP	BOTTOM	SHEAR
< 4'-0"	8x8 CMU	---	2#5	---
4'-1" - 6'-0"	8x16 CMU	2#5	2#5	---
6'-1" - 8'-0"	8x32 CMU	2#5	2#6	#3@8" L
8'-1" - 12'-0"	8x32 CMU	2#6	2#6	#3@8" L

1 ADDITIONAL CMU NOTES
3/4" = 1'-0"



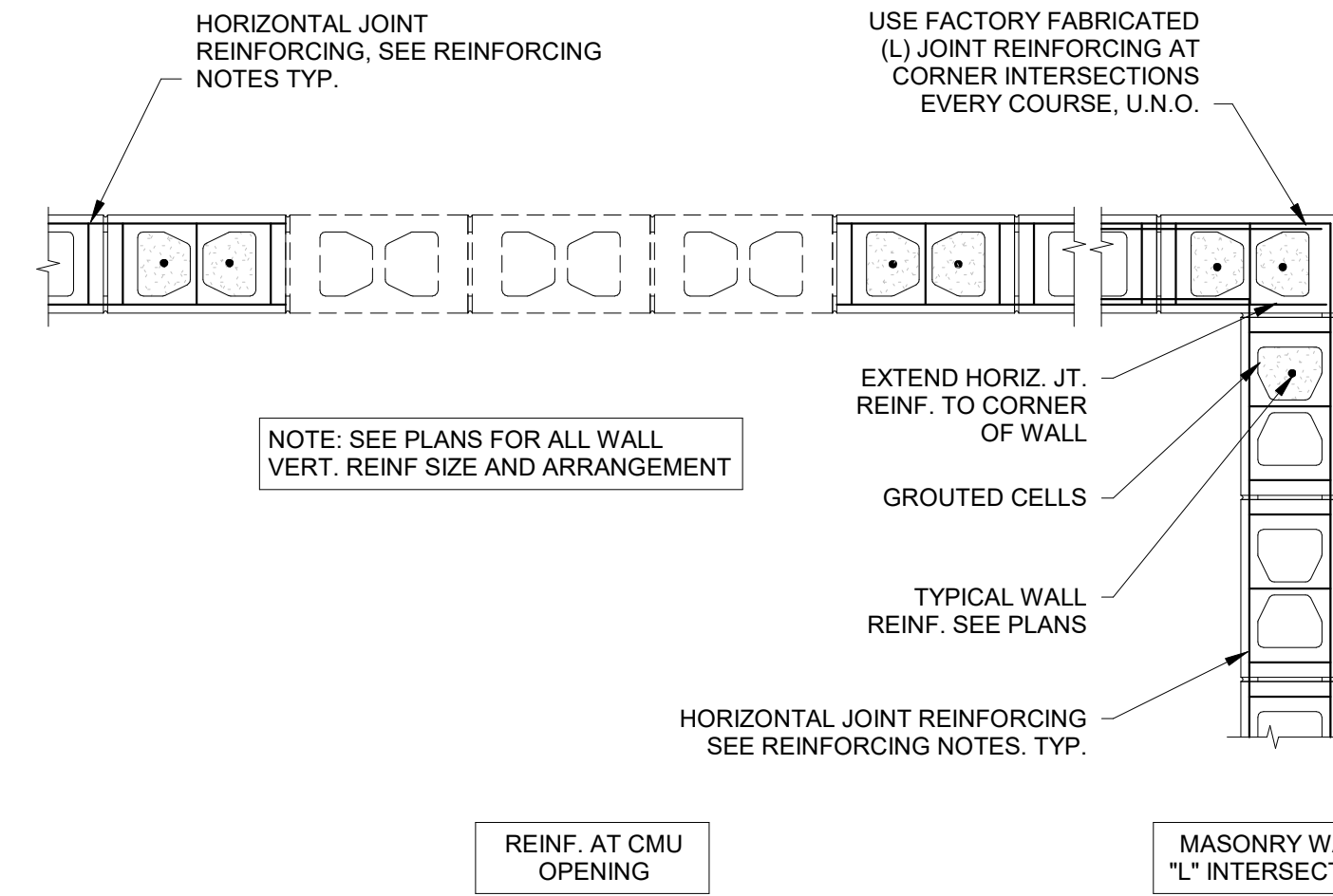
4 TYPICAL MCJ DETAIL
3/4" = 1'-0"

2 LINTEL DETAILS
3/4" = 1'-0"

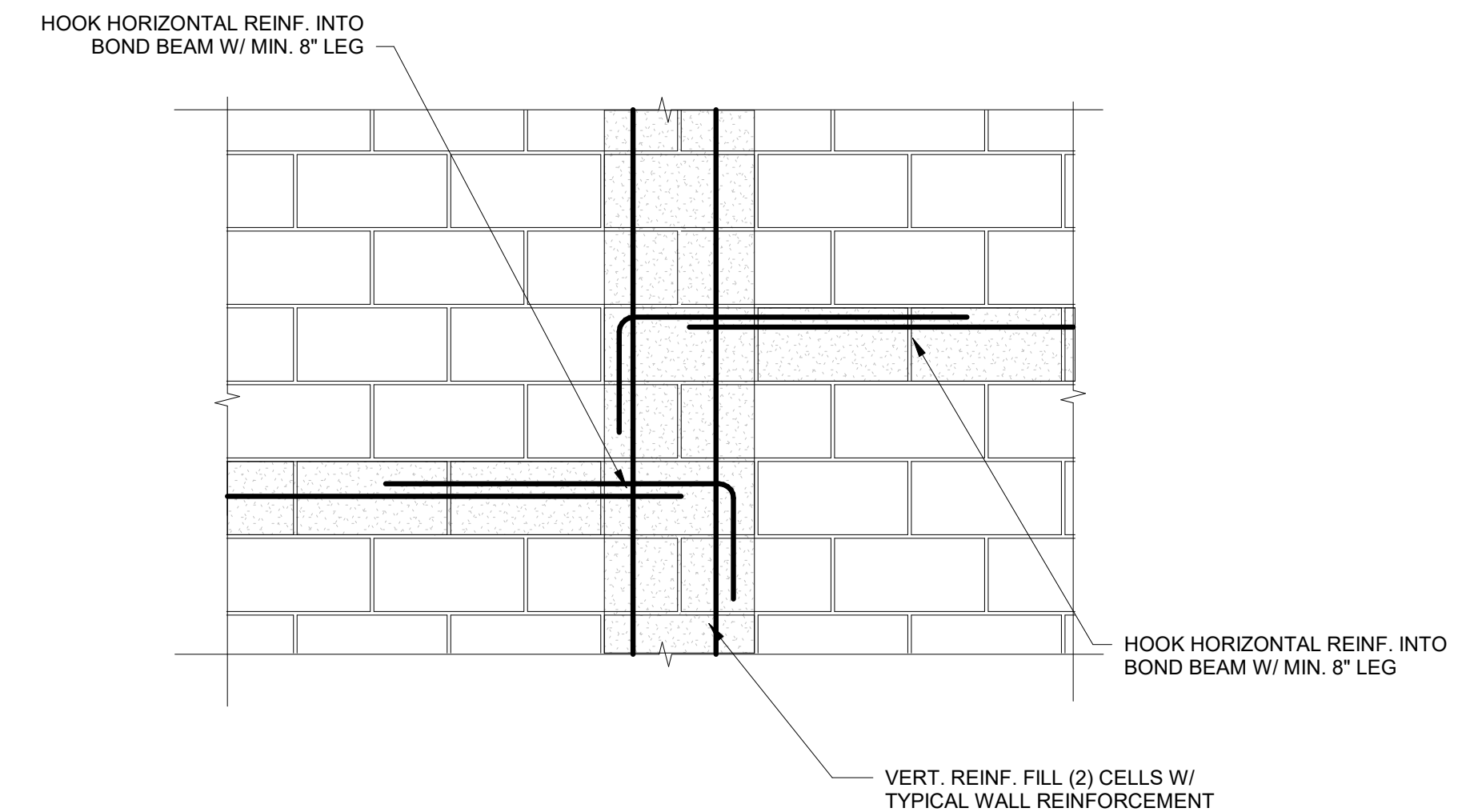


5 TYPICAL REINF. ATE BOND BEAM CORNER
3/4" = 1'-0"

3 LINTEL SCHEDULE
3/4" = 1'-0"



6 CMU WALL STANDARD VERTICAL STEEL LAYOUT
3/4" = 1'-0"



7 BOND BEAM STEP
3/4" = 1'-0"

CONTRACTOR TO REVIEW RFP FOR ADDITIONAL SCOPE AND STRUCTURAL FEATURES. DESIGN FOR BID ONLY.



MEI project: 2022-BID

REV. #	REVISION DESCRIPTION

SANTA ROSA COUNTY LANDFILL MAINTENANCE FACILITY
MILTON, FLORIDA

DESIGNED BY:
DJM
DRAWN BY:
WEH
CHECKED BY:
DJM
DATE:
AUGUST 2022

SHEET TITLE:
CMU DETAILS
SHEET:
S-400

SHEET: 6 OF 6