SHEET INDEX

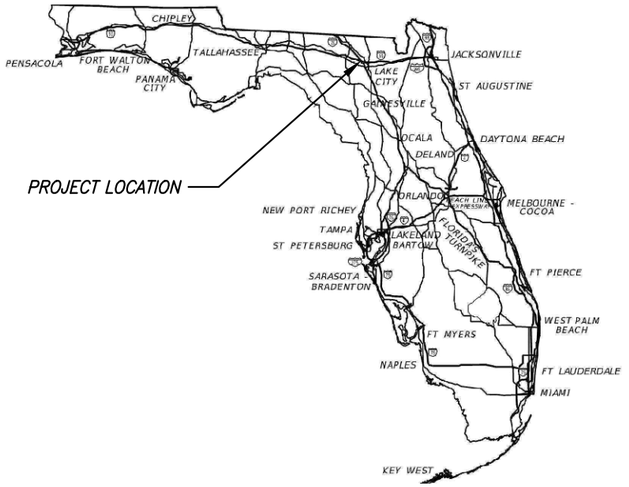
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 438609-1-52-01

SR 8 (I-10) REST AREA
COLUMBIA COUNTY (29170)

STATE ROAD NO. 8 (I-10)



GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2019-20 Standard Plans for Roads and Bridges Construction and applicable Interim Revisions (IRs)

Standard Plans for Road Construction and associated iRs are available at the following website: http://www.fdot.gov/StandardPlans

APPLICABLE IRs IR536-001-01, IR521-001-01

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, JULY 2019 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

FDOT
DESIGN PROJECT MANAGER: CRAIG ANTHONY TEAL
P.E. NO. : 35641

ARCHITECTURAL PLANS
ARCHITECT OF RECORD: DAN-MICHAEL JAY TRBOVICH
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STRUCTURAL PLANS
ENGINEER OF RECORD: ROBERT RAY BEE
P.E. NO. : 88791

MECHANICAL AND ELECTRICAL PLANS
ENGINEER OF RECORD: AUGUSTO E. BOBES, JR
P.E. NO. : 39410

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

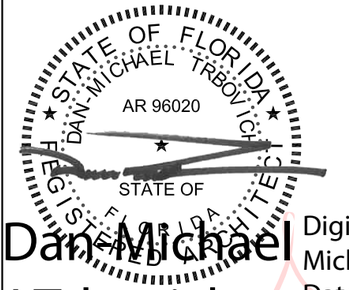
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

COVER SHEET/DRAWING INDEX

DRAWING NO. CS-001

SHEET NO. 1 OF 2



Dan Michael J Trbovich

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Robert Ray Bee

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S-604	*ROOF SECTIONS AND DETAILS*
S-605	*ROOF SECTIONS AND DETAILS*

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Augusto E Bobes Jr.
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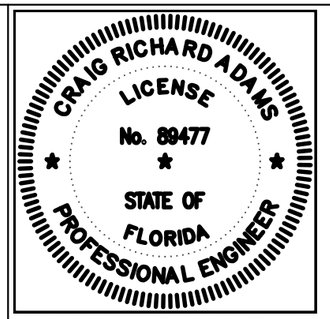

Craig Richard Adams

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	ELECTRICAL
E-607	*ELECTRICAL DISTRIBUTION OVERVIEW*

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

SIGNATURE SHEET

DRAWING NO. CS-002

SHEET NO. 2 OF 2

GENERAL CONDITIONS

1. ALL WORK SHALL COMPLY WITH FLORIDA BUILDING CODE (FBC) 2017, AISC MANUAL OF STEEL CONSTRUCTION, ACI BUILDING CODE, AWS CODE, ASTM STANDARDS AND ANY OTHER APPLICABLE CODES, RULES AND REGULATIONS BY AGENCIES HAVING JURISDICTIONS. WHERE CODES OVERLAP, COMPLY WITH THE MORE STRINGENT REQUIREMENTS.
2. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
3. CONTRACTOR IS TO DISPOSE OF ALL DEMOLITION MATERIALS AND LEAVE THE WORK IN A READY TO USE CONDITION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, LABOR PROCEDURES AND SAFETY PRECAUTIONS FOR COMPLETING THE WORK.
5. CONTRACTOR IS RESPONSIBLE FOR ALL WORK DURING CONSTRUCTION UNTIL FINAL APPROVAL BY ARCHITECT, OWNER AND LOCAL OFFICIALS.
6. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ANY EXISTING UTILITIES ON OR ADJACENT TO PROPERTY.
7. WHERE SPECIFIC MANUFACTURER'S PRODUCT IS CALLED OUT, ALL MATERIALS AND WORK MUST COMPLY WITH THE MANUFACTURER'S STRICT RECOMMENDATIONS FOR INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN INSTRUCTIONS AND TO THEN FOLLOW THEM.
8. WHERE A NAME BRAND IS NOT CALLED OUT, THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS AND/OR PRODUCT INFORMATION FOR ARCHITECT/ENGINEER REVIEW AND APPROVAL. MINOR ITEMS IN THE WORK ARE NOT SPECIFIED. CONTRACTOR IS TO USE QUALITY AND QUANTITY THAT IS STANDARD TO THE TRADE.
9. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ANCHORED, SUPPORTED AND EMBEDDED ITEMS WHICH AFFECT THE STRUCTURAL WORK. VERIFY DETAILS AND DIMENSIONS WITH EQUIPMENT PURCHASED.
10. COORDINATE SIZES AND LOCATIONS OF OPENINGS IN FLOORS, WALLS AND ROOF WITH, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS.
11. NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD.
12. COMPONENTS AND SYSTEMS DELEGATED TO A SPECIALTY ENGINEER SHALL CONFORM TO THE DESIGNER OF RECORD'S DESIGN INTENT AND SHALL NOT DEVIATE IN REQUIREMENTS WITHOUT PRIOR WRITTEN ACCEPTANCE FROM THE DESIGNER OF RECORD.

DESIGN CRITERIA

1. FLORIDA BUILDING CODE 2017.
2. DESIGN LOADS:
   DEAD LOAD (ROOF): 20 PSF
   LIVE LOAD (ROOF): 20 PSF
3. STRUCTURAL STEEL IS DESIGNED PER THE ALLOWABLE STRESS DESIGN (ASD) METHOD.
4. REINFORCED CONCRETE IS DESIGNED PER THE STRENGTH DESIGN METHOD.
5. REINFORCED CONCRETE MASONRY IS DESIGNED PER THE WORKING STRESS METHOD.
6. STRUCTURAL LUMBER IS DESIGNED PER THE ALLOWABLE STRESS DESIGN (ASD) METHOD.
7. BUILDING IS NOT DESIGNED FOR ADDITIONAL HORIZONTAL OR VERTICAL EXTENSIONS.
8. SEISMIC DESIGN CRITERIA:
   IMPORTANCE FACTOR = 1.0
   SS = 8.6%
   SI = 5.1%
   SITE CLASS = D (ASSUMED)
   SDS = 9.2%
   SDI = 8.2%
   SEISMIC DESIGN CATEGORY = B

WIND LOADS

ULTIMATE DESIGN WIND SPEED:	120 MPH
RISK CATEGORY	II
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT: ENCLOSED (TYPICAL) PARTIALLY ENCLOSED (LOBBY) OPEN (PAVILIONS)	±0.18 ±0.55 0.00
SEE WIND LOAD TABLES ON S-301 FOR ADDITIONAL INFORMATION.	

SHOP DRAWING SUBMITTALS

1. SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ALL STRUCTURAL FRAMING, ELEMENTS, COMPONENTS, AND SYSTEMS INDICATED ON THE STRUCTURAL DRAWINGS. SHOP DRAWING SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
   A. CONCRETE MIX DESIGNS
   B. CONCRETE FOUNDATION REINFORCING SUBMITTALS
   C. CONCRETE AND MASONRY REINFORCEMENT SUBMITTALS W/ ELEVATION DRAWINGS CLEARLY INDICATING REINFORCING, SPLICING, AND LOCATION OF ALL CONCRETE AND MASONRY REINFORCEMENT
   D. STRUCTURAL STEEL SUBMITTALS
   E. STEEL DECK SUBMITTALS
   F. LIGHT GAGE STEEL ROOF TRUSSES (*)
   G. TIMBER ROOF TRUSSES (*)
   H. PRE-FABRICATED CANOPY AND AWNING STRUCTURES, DECORATIVE BRACKETS, AND OTHER ARCHITECTURAL COMPONENTS (*)
   ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
2. SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER FOR COMPLIANCE WITH DESIGN INTENT AND FOR GENERAL CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING AND CORRELATING QUANTITIES, DIMENSIONS, ELEVATIONS, AND LENGTHS, FOR SELECTING FABRICATION PROCESSES, FOR SELECTING METHODS OF CONSTRUCTION, FOR COORDINATING SUB TRADES AND FOR PERFORMING WORK IN A SAFE MANNER.
3. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTING THE DRAWINGS TO THE ARCHITECT ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL BE MARKED WITH A REVIEW STAMP FROM THE CONTRACTOR INDICATING REVIEW DISPOSITION AND SHALL BE DATED AND INITIALED. SHOP DRAWINGS THAT HAVE NOT BEEN REVIEWED, STAMPED, DATED AND INITIALED WILL BE CONSIDERED NOT REVIEWED BY THE CONTRACTOR AND SHALL BE RETURNED NOT REVIEWED AND UNCHECKED BY THE STRUCTURAL ENGINEER.
4. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR DELAYS CAUSED DUE TO THE REJECTION OF INCOMPLETE SUBMITTALS, SUBMITTALS RETURNED DUE TO THE CONTRACTOR'S FAILURE TO REVIEW DOCUMENTS PRIOR TO RECEIPT BY THE STRUCTURAL ENGINEER, AND FOR THE ADDITIONAL TIME REQUIRED BY THE CONTRACTOR'S SUB TRADES TO REVISE AND RE-SUBMIT THE DRAWINGS AND FOR THE STRUCTURAL ENGINEER TO PERFORM ADDITIONAL REVIEWS OF NON-CONFORMING SUBMITTALS.
5. UPON RECEIPT OF SHOP DRAWING SUBMITTALS FROM THE CONTRACTOR THAT HAVE BEEN REVIEWED, STAMPED, DATED, AND INITIALED BY THE CONTRACTOR, THE ENGINEER SHALL BEGIN REVIEW OF THE RECEIVED SUBMITTALS. THE CONTRACTOR SHALL ALLOW FOURTEEN (14) WORKING DAYS FOR SUBMITTAL REVIEW BY THE STRUCTURAL ENGINEER FROM RECEIPT OF SHOP DRAWINGS. THE CONTRACTOR SHALL FURTHER ALLOW TEN (10) WORKING DAYS FROM RECEIPT OF SHOP DRAWING RE-SUBMITTALS FOR REVIEW BY THE STRUCTURAL ENGINEER.
6. THE STRUCTURAL ENGINEER'S OBLIGATIONS TO REVIEW SHOP DRAWINGS AND OTHER SUBMITTALS AND TO RETURN THEM IN A TIMELY MANNER ARE CONDITIONED UPON THE PRIOR REVIEW AND APPROVAL OF THE SHOP DRAWINGS OR SUBMITTALS BY THE CONTRACTOR AS REQUIRED IN THE CONSTRUCTION CONTRACT AND THE CONTRACTOR'S SUBMITTAL OF THE SHOP DRAWINGS AND OTHER SUBMITTALS IN ACCORDANCE WITH A WRITTEN SCHEDULE DISTRIBUTED IN ADVANCE TO THE ENGINEER IDENTIFYING THE DATES FOR THE SUBMITTAL OF THE VARIOUS SHOP DRAWINGS AND SUBMITTALS.
7. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR MATERIALS THAT ARE FABRICATED, DELIVERED, AND INSTALLED AT THE SITE WITHOUT A SET OF SHOP SUBMITTALS THAT HAVE BEEN REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER. COSTS ASSOCIATED WITH THE REMOVAL OF UNAPPROVED MATERIALS AND THE DELAYS ASSOCIATED WITH THE REPAIR, RECONFIGURATION, AND/OR REMOVAL OF SUCH MATERIALS SHALL NOT BE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER.
8. SHOP DRAWINGS REVIEWED BY THE STRUCTURAL ENGINEER AND RETURNED WITH A MARK OF 'REJECTED' OR 'REVISE AND RESUBMIT' SHALL BE RE-SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER. REVISIONS MADE TO SHOP DRAWINGS SHALL BE CLEARLY MARKED AND THE PURPOSE FOR THE RE-SUBMISSION SHALL BE CLEARLY NOTED ON THE SHOP DRAWING TRANSMITTAL. REVISIONS SHALL BE ASSIGNED A SEQUENTIAL REVISION NUMBER.
9. THE CONTRACT DOCUMENTS SHALL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

STRUCTURAL ENGINEERING ABBREVIATIONS

A.B	ANCHOR BOLT	INT.	INTERIOR
ABV.	ABOVE	JST.	JOIST
ADD'L	ADDITIONAL	JT.	JOINT
ADJ.	ADJACENT	K	KIPS
ALT.	ALTERNATE	KLF	KIPS PER LINEAR FOOT
APPROX.	APPROXIMATE	KSI	KIPS PER SQUARE INCH
ARCH.	ARCHITECT /-URAL	KSF	KIPS PER SQUARE FOOT
B/ -BOT.	BOTTOM	LB.	POUND
BLDG.	BUILDING	L.E.	LEFT END
BLW.	BELOW	LL	LIVE LOAD
BM	BEAM	LLBB	LONG LEG BACK TO BACK
B.P.	BASE PLATE	LLH	LONG LEG HORIZONTAL
BRG.	BEARING	LLV	LONG LEG VERTICAL
BRIDG.	BRIDGING	L.P.	LOW POINT
BTWN	BETWEEN	L.W.	LONG WAY /LIGHT WEIGHT
CANT.	CANTILEVER	MATL.	MATERIAL
CAP.	CAPACITY	MAX.	MAXIMUM
C.I.F.	CAST IN PLACE	M.B.S.	METAL BUILDING SYSTEM
C.J.	CONTROL /CONSTRUCTION JOINT	MECH.	MECHANICAL
CLG.	CEILING	MEZZ.	MEZZANINE
CLR.	CLEAR	MFR.	MANUFACTURER
CMU	CONCRETE MASONRY UNIT	MIN.	MINIMUM
COL.	COLUMN	MISC.	MISCELLANEOUS
COMP.	COMPOSITE	N.F.	NEAR FACE
CONC.	CONCRETE	N.I.C.	NOT IN CONTRACT
CONN.	CONNECT -ED/-ION	NO.	NUMBER
CONST.	CONSTRUCT /-ION	N.T.S	NOT TO SCALE
CONT.	CONTINUE /-OUS /-ATION	O.C.	ON CENTER
CONTR.	CONTRACTOR	O.D.	OUTSIDE DIAMETER
COORD.	COORDINATE	O.F.	OUTSIDE FACE
CTR.	CENTER	OPNG.	OPENING
DBL.	DOUBLE	OPP.	OPPOSITE
DEP.	DEPRESSION	PAR.	PARALLEL
DIA.	DIAMETER	PERP.	PERPENDICULAR
DIAG.	DIAGONAL	PL.	PLATE
DIM.	DIMENSION	PLF	POUNDS PER LINEAR FOOT
DN.	DOWN	PSF	POUNDS PER SQUARE FOOT
DL	DEAD LOAD	PSI	POUNDS PER SQUARE INCH
D.P.	DRILLED PIER	R.E.	RIGHT END
DWG	DRAWING	REINF.	REINFORCE /-ED/-ING/-MENT
DTL.	DETAIL	REM.	REMAINDER
DWL.	DOWEL	REQ'D	REQUIRED
EA.	EACH	RET.	RETAINING
E.E.	EACH END	REV.	REVERSE
E.F.	EACH FACE	SCHED.	SCHEDULE
E.J.	EXPANSION JOINT	SECT.	SECTION
EL.	ELEVATION	SF	SQUARE FOOT
ELEC.	ELECTRICAL	SIM.	SIMILAR
ELEV.	ELEVATION /ELEVATOR	SP.	SPACES
EMBED.	EMBEDMENT	SPEC.	SPECIFICATIONS
ENGR.	ENGINEER	SQ.	SQUARE
E.O.D.	EDGE OF DECK	STD.	STANDARD
E.O.S.	EDGE OF SLAB	STIFF.	STIFFENERS
EQ.	EQUAL	STIR.	STIRRUPS
EQUIP.	EQUIPMENT	STL.	STEEL
E.W.	EACH WAY	STRUCT.	STRUCTURAL
EXIST.	EXISTING	S.W.	SHORT WAY
EXP.	EXPANSION	SYM.	SYMMETRICAL
FDN.	FOUNDATION	T/ -T	TOP OF - TOP
FIN.	FINISH	TE	TURNED DOWN SLAB EDGE
F.F.	FAR FACE	TEMP.	TEMPERATURE
FLR.	FLOOR	T.O.S.	TOP OF SLAB
F.O.M.	FACE OF MASONRY	TYP.	TYPICAL
FRMG.	FRAMING	T&B	TOP AND BOTTOM
FT.	FEET	U.N.O.	UNLESS NOTED OTHERWISE
FTG.	FOOTING	VERT.	VERTICAL
GA.	GAGE	V.I.F.	VERIFY IN FIELD
GALV.	GALVANIZED	W.F.	WIDE FLANGE
GB	GRADE BEAM	W.P.	WORK POINT
H.P.	HIGH POINT	WT.	WEIGHT
HORIZ.	HORIZONTAL	W.W.R.	WELDED WIRE REINFORCEMENT
H.S.	HIGH STRENGTH	W/	WITH
I.D.	INSIDE DIAMETER	W/O	WITHOUT
I.F.	INSIDE FACE	&	AND
IN.	INCHES	@	AT
		#	NUMBER

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

STRUCTURAL GENERAL NOTES 1

DRAWING NO. S-001

SHEET NO. 1 OF 26

REQUIRED STRUCTURAL INSPECTIONS

1. INSPECTIONS TO BE PERFORMED BY THE BUILDING OFFICIAL
   - A. FOUNDATION INSPECTION AFTER EXCAVATION AND SOIL PREPARATION, BUT PRIOR TO PLACING REINFORCEMENT. AGAIN, AFTER REINFORCEMENT IS PLACED AND PRIOR TO CONCRETE PLACEMENT.
   - B. CONCRETE SLAB-ON-GRADE/UNDERFLOOR INSPECTION SHALL BE MADE AFTER ALL UNDERFLOOR EQUIPMENT IS IN PLACE BUT PRIOR TO CONCRETE PLACEMENT.
   - C. FRAMING INSPECTION SHALL BE MADE AFTER ALL ROUGH MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT IS IN PLACE, BUT PRIOR TO FIREPROOFING OR WALL COVERING IS INSTALLED.
   - D. FINAL INSPECTION SHALL BE MADE WHEN THE CONTRACTOR HAD COMPLETED THE BUILDING AND IT IS READY FOR OCCUPANCY.
2. THE OWNER WILL PROVIDE QUALIFIED PERSONNEL TO PERFORM THE REQUIRED SPECIAL INSPECTIONS. THIS DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE DESIGN DRAWINGS. THE ACCEPTANCE OF MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS FOR SPECIAL INSPECTION AND FOR QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (IBC), CHAPTER 17 OF THE FLORIDA BUILDING CODE (FBC), AND LOCAL ENFORCEMENT AGENCY. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR 24 IN ADVANCE OF ALL INSPECTIONS AND ALL CONTRACTORS ARE REQUIRED TO ACCOMMODATE AND COOPERATE WITH TESTING AND INSPECTION PERSONNEL.
3. THE SPECIAL INSPECTION PROGRAM WILL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. REPORTS OF THE FINDINGS SHALL BE PROVIDED TO THE ENGINEER.
   - A. EXCAVATIONS, GRADING, AND EARTH FILL SHALL BE INSPECTED IN ACCORDANCE WITH THE CODE.
   - B. FOUNDATION INSPECTION DURING THE PLACEMENT OF FOUNDATIONS AND SLABS-ON-GRADE. ALL EMBEDDED BOLTS SHALL BE INSPECTED.
   - C. ALL CONCRETE AND MASONRY REINFORCING STEEL SHALL BE INSPECTED PRIOR TO CONCRETE/GROUT PLACEMENT.
   - D. VERIFY USE OF REQUIRED CONCRETE DESIGN MIXES.
   - E. FABRICATE CONCRETE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF CONCRETE PRIOR TO PLACEMENT.
   - F. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURES AND TECHNIQUES.
   - G. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBERS BEING FORMED.
   - H. FRAMING INSPECTIONS DURING THE ERECTION OF ALL STEEL FRAMING MEMBERS, INSPECTION OF ALL DECKING PLACEMENT, AND ATTACHMENTS.
   - I. HIGH STRENGTH BOLTS SHALL BE INSPECTED DURING INSTALLATION AND TIGHTENED IN ACCORDANCE WITH THE CODE.
   - J. SPRAY-APPLIED FIRE PROOFING INSPECTIONS SHALL BE MADE IN ACCORDANCE WITH THE CODE.
   - K. ALL EPOXY CONNECTION HOLES SHALL BE INSPECTED AND BE DUST FREE.
   - L. ALL WELDS SHALL BE INSPECTED BY A CERTIFIED WELD INSPECTOR AT THE OWNER'S EXPENSE.
   - M. PREFABRICATED WOOD STRUCTURAL ELEMENTS AND FASTENING OF WOOD DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH THE CODE.
   - N. COLD-FORMED STEEL TRUSS FRAMING, BRACING, CONNECTIONS, ANCHORING TO SHEAR WALLS, AND FASTENING OF METAL DECK DIAPHRAGMS SHALL BE INSPECTED IN ACCORDANCE WITH THE CODE.

SOIL PREPARATION AND FOUNDATIONS

1. THE FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE PHASE II GEOTECHNICAL REPORT PREPARED BY ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC, DATED JANUARY 2019. THE PRESUMPTIVE ALLOWABLE BEARING PRESSURES ARE 2000 PSF (BUILDINGS) AND 1300 PSF (PAVILIONS).
2. SOIL, DEWATERING, AND SITE PREPARATION SHALL BE IN ACCORDANCE WITH THE AFOREMENTIONED REPORT.
3. SOIL SUPPORTED FOUNDATIONS:
   - A. THE ALLOWABLE BEARING PRESSURE FOR FOUNDATIONS BEARING ON UNDISTURBED SOIL OR APPROVED ENGINEERED FILL MATERIAL SHALL BE VERIFIED BY A LICENSED SOIL ENGINEER.
   - B. ALL FOUNDATIONS ARE DESIGNED WITH FORMED SIDES. IF EARTH FORMED SIDES ARE APPROVED BY THE ENGINEER, THE TOP 7 1/4" SHALL BE FORMED TO THE DESIGN DIMENSION AND ONE INCH SHALL BE ADDED TO EACH SIDE OF THE EARTH FORMED AREA TO PROVIDE ADEQUATE COVER OVER THE REINFORCING AT THE CONTRACTOR'S EXPENSE.
   - C. REINFORCING SHALL BE SUPPORTED FROM ABOVE OR WITH 3" SBP (WITH BOTTOM PLATE) AT 4'-0" O.C. MAXIMUM FOR ALL FOUNDATION REINFORCING.
4. REMOVE FREE WATER FROM EXCAVATIONS BEFORE PLACING CONCRETE.
5. ALL FOOTING EXCAVATIONS ARE TO BE FINISHED BY HAND.
6. REMOVE EXISTING TOP SOIL, FILL, PAVEMENT OR FOUNDATIONS FROM THE BUILDING AREA.
7. BACKFILL BELOW STRUCTURAL ELEMENTS TO BE A GRANULAR MATERIAL HAVING MAXIMUM SIZE OF 3" AND LESS THAN 12% PASSING THE #200 SIEVE SIZE. FILL TO BE PLACED IN LIFTS OF ONE-FOOT OR LESS COMPACTED TO A MINIMUM OF 100% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM:D698).
8. DO NOT BACKFILL FOUNDATION WALLS UNTIL THE RESTRAINING SLABS OR ADEQUATE BRACING ARE IN PLACE. ALL BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATION.
9. EXTERIOR SLABS SHALL SLOPE AWAY FROM THE STRUCTURE A MINIMUM OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.
10. SLABS-ON-GRADE TO BE PLACED ON COMPACTED SOIL TO 100% OF STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.
11. PROVIDE SOIL POISONING UNDER BUILDINGS FOR TERMITE PROTECTION.

SPECIALITY ENGINEER REQUIREMENTS AND SUBMITTALS

1. THE TERM "DELEGATE ENGINEER" SHALL REFER TO A REGISTERED PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR TO PROVIDE DESIGN AND FABRICATION SUBMITTALS AND CALCULATIONS FOR THE COMPONENTS DELEGATED BY THE STRUCTURAL ENGINEER OF RECORD HEREIN.
2. WHERE NOTED ON THIS SET OF CONSTRUCTION DOCUMENTS AND AS INDICATED BELOW, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A DELEGATED ENGINEER TO PROVIDE SPECIALTY ENGINEERING SERVICES FOR STRUCTURAL BUILDING COMPONENTS THESE COMPONENTS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   - A. LIGHT GAGE STEEL ROOF TRUSSES AND CONNECTION TO SUPPORT STRUCTURE
   - B. TIMBER ROOF TRUSSES
   - C. PRE-FABRICATED PAVILION, CANOPY AND AWNING STRUCTURES, DECORATIVE BRACKETS, AND OTHER ARCHITECTURAL COMPONENTS
3. THE DELEGATE ENGINEER FOR EACH COMPONENT SHALL BE A REGISTERED PROFESSIONAL ENGINEER CURRENT AND IN GOOD STANDING WITH THE STATE OF FLORIDA WITH A MINIMUM OF FIVE (5) YEARS OF EXPERIENCE IN DESIGN FOR EACH SPECIFIC COMPONENT.
4. THE DELEGATE ENGINEER SHALL BE THE ENGINEER OF RECORD FOR THE AFOREMENTIONED COMPONENTS AND SHALL SUBMIT SIGNED AND SEALED CALCULATIONS AND DRAWINGS FOR REVIEW BY THE STRUCTURAL ENGINEER.
5. THE DELEGATE ENGINEER SHALL COMPLY WITH THE RESPONSIBILITIES OUTLINED IN THE FLORIDA ADMINISTRATIVE CODE SECTION 61G15-30.006.
6. CALCULATIONS AND DRAWINGS SUBMITTED BY THE DELEGATE ENGINEER FOR REVIEW BY THE ENGINEER SHALL INCLUDE CLEARLY DEFINED DESIGN CRITERIA, DESIGN PROCEDURES, STRUCTURAL LOADS, CODE COMPLIANCE, REQUIRED DETAILS, AND LAYOUTS. DOCUMENTS SHALL BE IN CONFORMANCE WITH PARAGRAPH 5 OF THIS SECTION.
7. THE DELEGATE ENGINEER SHALL ALSO BE RESPONSIBLE FOR GENERATING ERECTION DRAWINGS AND FABRICATION PROCEDURES FOR THE SPECIALTY ENGINEERED COMPONENTS.
8. REVIEW OF CALCULATIONS AND DRAWINGS SUBMITTED BY THE DELEGATE ENGINEER TO THE STRUCTURAL ENGINEER SHALL BE LIMITED TO THE VERIFICATION THAT THE DELEGATE ENGINEER HAS UTILIZED THE DESIGN CRITERIA SPECIFIED AND HAS UNDERSTOOD THE INTENT OF THE DESIGN. THE STRUCTURAL ENGINEER WILL NOT MAKE A DETAILED CHECK OF THE CALCULATIONS AND DESIGN PROCESSES UTILIZED BY THE DELEGATE ENGINEER. THE DELEGATE ENGINEER SHALL BE RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE SPECIALTY COMPONENTS.

MISCELLANEOUS

1. CONTRACTOR SHALL SUPPLY ALL ITEMS FOR ATTACHING MECHANICAL AND ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE TO RESIST ALL LOADS INCLUDING WIND FORCES. ATTACHMENT SHALL BE MADE SO AS NOT TO OVERSTRESS STRUCTURAL MEMBERS. COORDINATE THE ATTACHMENTS AND LOCATIONS OF THE EQUIPMENT WITH THE STRUCTURAL SHOP DRAWINGS. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
2. SUBSTITUTION OF EXPANSION ANCHORS FOR ADHESIVE ANCHORS OR EMBEDDED ANCHORS SHOWN ON THE DRAWINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE.
3. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SERVICES AS PART OF THE CONSTRUCTION SCOPE OF WORK:
   - A. PROVIDE TEMPORARY BRACING AND SHORING TO PREVENT EXCESSIVE DEFLECTIONS AND DAMAGE DURING CONSTRUCTION. DESIGN OF TEMPORARY BRACING AND SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS INDICATED IN SECTION 010100.
   - B. SUPPORT OF CEILING SYSTEMS, FOLDING PARTITIONS, TOILET PARTITIONS, COUNTERS, MISCELLANEOUS EQUIPMENT, AND WINDOW SYSTEMS AS DEFINED IN THE ARCHITECTURAL PLANS.

100% CONSTRUCTION DOCUMENTS

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

STRUCTURAL GENERAL NOTES 2

DRAWING NO. S-002

SHEET NO. 2 OF 26

MASONRY

1. CONFORM TO ACI BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES ACI 530/ASCE 5 AND TO ACI SPECIFICATIONS FOR MASONRY ACI 530.1/ ASCE 6. LATEST EDITION REFERENCED IN BUILDING CODE.
2. CONCRETE MASONRY UNITS (CMU) MATERIALS SHALL BE:
   - A. ALL CONCRETE MASONRY UNITS (CMU) SHALL BE TWO CELL LIGHTWEIGHT AGGREGATE UNITS WITH A SPECIFIED MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON NET AREA AT 28 DAYS CONFORMING TO ASTM C90. CMU LOCATED BELOW GRADE, SHALL BE NORMAL WEIGHT AGGREGATE UNITS.
   - B. ALL MORTAR SHALL BE TYPE "S" OR "M" WITH A MINIMUM MORTAR COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS CONFORMING TO ASTM C270. THE MINIMUM COMPRESSIVE STRENGTH (f'M) OF A PRISM ASSEMBLED OF CMU AND MORTAR SHALL BE 1500 PSI AT 28 DAYS ON THE NET AREA.
   - C. CMU GROUT SHALL CONFORM TO ASTM C476 WITH 3/8" AGGREGATE WITH THE FOLLOWING REQUIREMENTS: MIN F'C=3000 PSI, MIN CEMENT=611 PCY, MAX W/C RATIO=0.65 AND SHALL HAVE A SLUMP OF BETWEEN 8" AND 10". PROVIDE CLEAN OUTS AS SHOWN ON DWGS. PUMP 4'-0" MAXIMUM GROUT LIFTS WITH 60 MINUTE DELAY BETWEEN LIFTS.
   - D. REINF STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615, GR 60.
   - E. JOINT REINF STEEL SHALL MEET THE REQUIREMENTS OF ASTM A82 WIRE WITH A MINIMUM YIELD GREATER THAN 70 KSI. LONGITUDINAL WIRES SHALL BE 9 GA (0.1483" DIA) WITH LADDER TYPE WIRES CONNECTED AT 16" CENTERS. REINF SHALL BE MILL GALVANIZED PER ASTM A641, CLASS 3.
   - F. WHERE CONCRETE BEAMS ARE INSTALLED IN CONCRETE BLOCK WALL, SUPPORT CONCRETE WITH 6" WIDE CONTINUOUS STRIPS OF 1/8 SQUARE MESH SOFFIT SCREENING OF PUR-O-STOP OR EQUAL CENTERED OVER BLOCK WORK. USE OF ROOFING FELT STRIPS WILL NOT BE PERMITTED.
3. HORIZONTAL WALL REINFORCEMENT
   - A. PROVIDE BOND BEAM COURSES IN ALL WALLS AT THE TOP OF WALL OR PARAPET AND AT BEARING LOCATIONS. BOND BEAMS SHALL BE REINFORCED AS SHOWN IN PLANS AND DETAILS. ALL INTERIOR STRUCTURAL WALLS (SHEAR AND/OR BEARING) SHALL HAVE INTERMEDIATE BOND BEAMS LOCATED AT THE SAME LEVELS AS EXTERIOR BOND BEAMS.
   - B. B. PROVIDE BOND BEAMS AT INTERMEDIATE LOCATIONS IN EVERY SIXTH COURSE (IE: 4'-0"OC).
4. VERTICAL WALL REINFORCEMENT
   - A. PROVIDE VERTICAL REINFORCEMENT (NORMAL REINF) IN GROUT FILLED CELLS IN ALL WALLS AS SHOWN ON PLANS AND SCHEDULES.
   - B. PROVIDE AN ADDITIONAL VERTICAL REINFORCEMENT BAR WITH DOWELS INTO SUPPORTING MEMBERS, WITH SAME SIZE AND LENGTH AS THE NORMAL REINF BAR, AT THE FOLLOWING LOCATIONS UNO:
     1. ON EACH SIDE OF A CONTROL OR ISOLATION JOINT
     2. AT INTERSECTION OF WALLS
     3. EACH SIDE OF A WALL OPENINGS PER MASONRY DETAILS
     4. AT EACH END OF WALL
     5. AT EACH BEAM BEARING
   - C. VERTICAL REINFORCEMENT SHALL EXTEND CONTINUOUSLY FROM THE TOP OF THE SUPPORTING MEMBER TO EMBED AT LEAST 6" INTO THE TOP BOND BEAM. THERE SHALL BE A DOWEL, CAST INTEGRAL WITH THE SUPPORTING MEMBER, FOR EACH VERTICAL REINFORCEMENT BAR EXCEPT AS NOTED.
5. REINFORCEMENT SHALL MEET THE FOLLOWING LAP, SPLICE AND EMBEDMENT REQUIREMENTS:

REINF BAR SIZE	LAP OR SPLICE LENGTH IN WALL	FOUNDATION EMBEDMENT WITH HOOK INTO FOUND.	DOWELS STRAIGHT EMBEDMENT INTO FOUND.
JOINT	16"	N/A	N/A
4	24"	8"	15"
5	30"	10"	19"
6	36"	12"	23"
7	42"	14"	27"
8	48"	16"	30"

   HOOKS IF USED SHALL BE ACI STANDARD HOOKS.
6. CELLS WHICH CONTAIN REINF STEEL (VERT CELLS, BOND BEAMS, LINTELS AND PILASTERS) SHALL BE FILLED SOLIDLY WITH GROUT AND UNITS SHALL BE LAID WITH FULL BED JOINTS AROUND CELLS.
7. VERT CELLS TO BE FILLED SHALL HAVE VERT ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERT CELL.
8. BOND BEAM AND JOINT REINF FOR INTERIOR AND EXTERIOR WALLS SHALL BE CONTINUOUS THROUGHOUT, EXCEPT AT CONTROL AND ISOLATION JOINTS, IT SHALL BE AS FOLLOWS:
   - A. INTERMEDIATE (LADDER) REINF SHALL BE DISCONTINUOUS AT CONTROL JOINTS. REINFORCEMENT IN BOND BEAMS AT FLOOR AND ROOF DIAPHRAGM LEVELS SHALL BE CONTINUOUS.
   - B. AT ISOLATION JOINTS, ALL REINF SHALL BE DISCONTINUOUS.
9. BARS AROUND PERIMETER OF OPNGS SHALL EXTEND NOT LESS THAN 40 BAR DIA OR 24", WHICHEVER IS LARGER, BEYOND THE CORNER OF THE OPNG VERT JAMB BARS SHALL BE THE SAME SIZE AND NUMBER AS THE NORMAL VERT REINF.
10. SEE PLANS AND SCHED FOR LINTELS OVER OPNGS.
11. LOCATION AND DETAILS OF CONTROL JOINTS AND ISOLATION JOINTS IN REINFORCED MASONRY SHALL BE AS SHOWN ON THE ARCH DWGS. THE MAXIMUM SPACING OF CONTROL JOINTS SHALL BE 25'-4" AND ISOLATION JOINTS SHALL BE AT A LENGTH TO HEIGHT RATIO OF 4:1 OR 100'-0" OC, WHICHEVER IS LESS. CONTRACTOR SHALL SUBMIT A JOINT LAYOUT PLAN FOR APPROVAL PRIOR TO CONSTRUCTION.
12. ALL MASONRY IN CONTACT WITH SOIL SHALL BE NORMAL WEIGHT UNITS AND HAVE ALL VOIDS FILLED WITH GROUT.
13. MASONRY WALL TO INTERLOCK (50% MASONRY BOND) AT ALL INTERSECTING WALLS.
14. PROVIDE ADEQUATE TEMPORARY BRACING DURING CONSTRUCTION FOR ALL MASONRY WALLS AS REQUIRED TO WITHSTAND ALL LATERAL LOADS AND THE PRESSURES OF FLUID GROUT. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT SUPPORT SYSTEMS ARE INSTALLED AND HAVE BECOME FULLY EFFECTIVE.
15. SPECIAL INSPECTION IN ALL CMU WORK IS REQUIRED BY A QUALIFIED INSPECTOR AT CONTRACTOR'S EXPENSE.

CAST-IN-PLACE CONCRETE

1. CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES AND STANDARDS (LATEST EDITIONS):
   - A. ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
   - B. ACI 117 "STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".
   - C. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
   - D. ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE".
   - E. ACI 305 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING".
   - F. ACI 311 "RECOMMENDED PRACTICE FOR CONCRETE INSPECTION".
   - G. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
   - H. ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"
   - I. ACI MANUAL OF CONCRETE PRACTICE-PARTS 1 THRU 5 AS APPROPRIATE TO TYPE OF CONSTRUCTION.
   - J. CRSI "MANUAL OF STANDARD PRACTICE".
2. CONCRETE SHALL BE NORMAL WEIGHT UNO AND SHALL CONFORM TO ASTM C-94 IN ADDITION TO THE FOLLOWING:
   - A. PORTLAND CEMENT SHALL MEET ASTM C-150 TYPEI/II.
   - B1. AGGREGATES FOR SLAB ON GRADE SHALL MEET ASTM C-33 (1 1/2" MAX).
   - B2. AGGREGATES ELSEWHERE SHALL MEET ASTM C-33 (1" MAX).
   - C. AIR ENTRAINING AGENT SHALL MEET ASTM C-260.
   - D. WATER REDUCING AGENT SHALL MEET ASTM C-494.
   - E. CALCIUM CHLORIDE SHALL NOT BE USED IN THE MIX.
   - G. CURING COMPOUND SHALL MEET ASTM C309 TYPE 1 UNO.
3. CONCRETE SHALL HAVE THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS AS INDICATED BELOW. MIX DESIGNS SHALL BE APPROVED BY THE ENGINEER BEFORE USE.
4. FLY ASH, SUBSTITUTING FOR CEMENT, SHALL NOT EXCEED 25% BY WEIGHT.
5. FOR MASS CONCRETE PLACEMENT AS DEFINED BY ACI 207 FLY ASH, SUBSTITUTING FOR CEMENT, SHALL NOT EXCEED 30% BY WEIGHT.
6. REINF BARS USED IN CONCRETE SHALL BE GRADE 60 KSI DEFORMED BAR CONFORMING TO ASTM SPECIFICATION A-615. REINFORCEMENT SHALL BE RUST,OIL, AND SCALE FREE AND SHALL BE PLACED AND BENT IN ACCORDANCE WITH THE REFERENCED STANDARDS INDICATED IN NOTE 1 OF THIS SECTION. SHOP DWGS FOR REINFORCEMENT LAYOUT, DETAILING, AND PLACING SHALL BE APPROVED BY THE STRUCT ENGINEER PRIOR TO FABRICATION, SITE DELIVERY, AND INSTALLATION.
7. WELDED WIRE FABRIC TO BE USED FOR CONCRETE REINFORCEMENT WHERE INDICATED SHALL CONFORM TO ASTM A-185 AND SHALL BE FURNISHED IN FLAT SHEETS (RATHER THAN ROLLS). FABRIC SHALL BE SUPPORTED ON CHAIRS TO MAINTAIN THE PROPER LOCATION WITHIN THE CONCRETE AND SHALL BE PLACED IN ACCORDANCE WITH THE REFERENCED STANDARDS INDICATED IN NOTE 1 OF THIS SECTION. MINIMUM LAP SHALL BE TWO PANELS.
8. CONCRETE SHALL BE CURED IN ACCORDANCE WITH ACI STANDARDS AND SPECIFICATIONS UTILIZING A CURING COMPOUND WITH FUGITIVE DYE. THE CONTRACTOR SHALL BEGIN CONCRETE CURING IMMEDIATELY AFTER FINISHING OPERATIONS ARE COMPLETED.
9. CONCRETE ADMIXTURES SHALL BE UTILIZED ONLY WITH PRIOR APPROVAL FROM THE STRUCT ENGINEER.
10. CONCRETE ADDITIVES SHALL BE COORDINATED BY THE CONTRACTOR TO INSURE COMPATIBILITY WITH FLOOR COVERINGS, EXPOSED, POLISHED, AND STAINED FINISHES AS SPECIFIED BY THE ARCH.
11. CONCRETE TESTING SHALL BE REQUIRED FOR CIP CONCRETE ELEMENTS AND SHALL BE PERFORMED BY A QUALIFIED, INDEPENDENT TESTING LAB. MINIMUM TESTING SHALL BE FOR SLUMP IN ACCORDANCE WITH ASTM C143 AND FOR COMPRESSIVE STRENGTH IN ACCORDANCE WITH ASTM C39.
12. COMPRESSIVE STRENGTH TESTING SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY FIFTY CUBIC YARDS OF CONCRETE PLACED PER DAY. PLACEMENTS LESS THAN FIFTY CUBIC YARDS SHALL ALSO BE TESTED PER DAY FOR EACH CLASS. A MINIMUM OF FOUR LAB-CURED AND SIX FIELD-CURED CYLINDERS SHALL BE COLLECTED. TWO CYLINDERS SHALL BE KEPT IN RESERVE AND TESTED, IF NECESSARY, WITH PRIOR APPROVAL FROM THE STRUCT ENGINEER.
13. MIX DESIGN SUBMITTALS SHALL BE SENT TO THE STRUCT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONCRETE PLACEMENT AND SHALL BE UNIQUELY IDENTIFIED WITH MIX NUMBER AND EXACT LOCATION WHERE MIX WILL BE PLACED ON THE STRUCTURE. SUBMITTALS SHALL INCLUDE DATA FROM RECENT FIELD AND LAB CYLINDER TESTS AND STATISTICAL, TESTED BASIS OF DATA PER ACI 318.
14. CONCRETE TICKETS FOR CONCRETE MIXES DELIVERED TO THE SITE SHALL IDENTIFY THE EXACT TIME THAT THE MIX IS BATCHED. CONCRETE PLACEMENT SHALL OCCUR WITHIN ONE AND A HALF HOURS FROM THE TIME THE PROPORTIONED MIXING WATER IS ADDED TO THE MIX FOR PLACEMENT. MIXES SHALL BE DISCARDED IF THIS TIMEFRAME IS EXCEED. IT SHALL BE THE RESPONSIBILITY OF THE INDEPENDENT TESTING LAB TO ASSURE COMPLIANCE WITH PLACING TIME AND TO NOTIFY THE CONTRACTOR AND OWNER OF NON-COMPLIANCE.
15. CONCRETE FORMS SHALL NOT BE STRIPPED UNTIL CONCRETE HAS ATTAINED A MINIMUM 70% OF THE SPECIFIED 28-DAY COMPRESSIVE STRENGTH AS INDICATED BY TESTING SAMPLES.
16. LAP SPLICE LENGTHS SHALL BE A MINIMUM OF 48 BAR DIA UNO.
17. CONCRETE CLEAR COVER OVER REINF SHALL BE IN ACCORDANCE WITH ACI 318 AS LISTED BELOW, UNLESS NOTED OTHERWISE.

LOCATION	CLEAR COVER
CAST AGAINST EARTH	3"
EXPOSED TO EARTH OR WEATHER #6 AND LARGER	2"
EXPOSED TO EARTH OR WEATHER #5 AND SMALLER	1 1/2"
SLABS AND WALLS NOT EXPOSED TO WEATHER	3/4"
BEAMS AND COLUMNS NOT EXPOSED TO WEATHER	1 1/2"
SLABS ON GRADE (COVER FROM TOP OF SLAB)	1 1/2"

18. VERT AND HORIZ REINF INDICATED ON THE DWGS SHALL BE DOWELED OUT OF THE FOUNDATION OR THE ELEMENT WHERE THE REINF ORIGINATES, (SLAB BEAM, THE BEAM, WALL, ETC.) UTILIZING AN ACI STANDARD HOOK EMBEDDED TO DEVELOP THE FULL ULTIMATE TENSILE STRENGTH OF THE BAR.
19. FORMWORK REMOVAL IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REMOVE FORMS IN SUCH A MANNER AS TO INSURE JOB SAFETY AND TO PREVENT DAMAGE TO, AND CREEP DEFLECTION OF THE STRUCTURE.
20. IMMEDIATELY AFTER REMOVAL OF FORMS, REPAIR HONEYCOMBED OR DEFECTIVE AREAS WITH HIGH STRENGTH CEMENT GROUT. GROUT SHALL BE APPROVED BY THE STRUCT ENGINEER. WHEN REINF IS VISIBLE IN DEFECTIVE AREA, CONTACT THE STRUCT ENGINEER IMMEDIATELY.
21. PLACE CONCRETE FOR SLABS-ON-GRADE IN ACCORDANCE WITH JOINT PATTERNS INDICATED ON PLAN. PLACE IN LINEAR STRIPS NOT TO EXCEED 30 FEET. PLACEMENTS AREA SHALL NOT EXCEED "FORMED JOINTS" AS INDICATED ON PLAN WITHOUT PRIOR ACCEPTANCE BY THE ENGINEER. BEGIN SAWCUTTING OF THE SLAB AS SOON AS THE SAW DOES NOT CAUSE THE SURFACE TO BE TORN OR DAMAGED, BUT IN NO CASE MORE THAN 12 HOURS AFTER SLAB FINISHING OPERATIONS.
22. MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HOURS.
23. WIRE BRUSH CLEAN AND MOISTEN ALL CONSTRUCTION JOINTS IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.

CONCRETE MIX REQUIREMENTS

COMPONENT	28-DAY STRENGTH	W/C RATIO	AIR CONTENT	SLUMP
SLAB-ON-GRADE	4,000 PSI	0.50	UP TO 2%	4 TO 6 IN
FOOTINGS	4,000 PSI	0.50	UP TO 2%	4 TO 6 IN
CONCRETE CAST ABOVE GRADE	4,000 PSI	0.45	5%	4 TO 6 IN

100% CONSTRUCTION DOCUMENTS

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SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

STRUCTURAL GENERAL NOTES 3

DRAWING NO. S-003

SHEET NO. 3 OF 26

STRUCTURAL STEEL FRAMING

1. A QUALITY CONTROL PROGRAM OF SHOP AND FIELD TESTING AND INSPECTION WILL BE PERFORMED ON ALL STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTIONS IN ACCORDANCE WITH THE SPECIFICATIONS.
2. STRUCTURAL STEEL SHALL MEET THE FOLLOWING REQUIREMENTS UNO ON THE DRAWINGS:

TYPE	ASTM	GRADE
WIDE-FLANGE TYPE SHAPES (W, S & M)	A992	50
ANGLES, CHANNELS AND PLATES	A36	-----
PIPE	A53	B
STRUCT TUBING	A500	B
ANCHOR BOLTS	ASTM F1554	-----
STRUCT BOLTS	A325N	-----
ERECTION BOLTS	A307	-----

3. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC SPECIFICATIONS AND CODES, LATEST EDITIONS.
4. PERFORM ALL WELDING USING QUALIFIED WELDERS AND IN ACCORDANCE WITH THE AWS "STRUCTURAL WELDING CODE - STEEL", LATEST EDITION. COMPLY WITH AISC SPECIFICATION SECTION 1.17 FOR MINIMUM FILLET WELD SIZE, BUT DO NOT USE LESS THAN ¼ INCH UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. ALL WELDING SHALL USE E70XX ELECTRODES. ALL WELD SHALL BE TOUCHED UP WITH ZINC-RICH PROTECTIVE PAINT FOR CORROSION RESISTANCE.
5. PROVIDE 3/4" MINIMUM DIAMETER HIGH STRENGTH BOLTS WHICH CONFORM TO THE REQUIREMENTS OF ASTM A325N FOR ALL BOLTED CONNECTIONS WITH DIRECT TENSION INDICATOR (DTI) WASHERS TO INSURE PROPER TENSIONING.
6. SUBMIT CHECKED SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOW SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL.
7. ANCHOR BOLTS AND BEARING PLATES SHALL BE LOCATED AND BUILT INTO CONNECTING WORK, PRE-SET BY TEMPLATES OR SIMILAR METHODS. ALL PLATES SHALL BE SET IN FULL BEDS OF NON-SHRINK GROUT.
8. TEMPORARY ERECTION BRACING SHALL BE PROVIDED AS REQUIRED FOR THE SAFETY, STABILITY AND ALIGNMENT OF THE STRUCTURE. IT SHALL NOT BE REMOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED. THE BUILDING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS MAY BE FINALLY BOLTED OR WELDED.
9. DO NOT FIELD CUT ANY STRUCTURAL STEEL WITHOUT THE REVIEW AND ACCEPTANCE OF THE ARCHITECT/ENGINEER.

STEEL DECKING

1. METAL DECK SHALL CONFORM TO STEEL DECK INSTITUTE (SDI) SPECIFICATIONS, PER EDITION REFERENCED IN BUILDING CODE, AND BE DETAILED, FABRICATED AND ERECTED ACCORDING TO THE SAME. SUBMIT SHOP DRAWINGS AND SIGNED AND SEALED CALCULATIONS BY A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF FLORIDA FOR APPROVAL BY THE ENGINEER OF RECORD SHOWING COMPLIANCE WITH DIAPHRAGM AND NET UPLIFT LOADS REQUIREMENTS AS INDICATED ON THE DRAWINGS.
2. STEEL ROOF DECK SHALL BE TYPE1.5B OR APPROVED EQUAL, 1 1/2" DEEP, 20 GA. WIDE RIB METAL DECKING.
3. FABRICATE METAL DECKING FROM STEEL WHICH CONFORMS TO ASTM A446, GRADE A, HAVING A MINIMUM YIELD STRENGTH OF 33,000 PSI. HOT DIP GALVANIZE ROOF DECK TO G90 REQUIREMENTS AND ALL OTHER METAL DECK TO G60 REQUIREMENTS.
4. DECKING SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SUPPORTS. USE SINGLE SPANS ONLY WHERE REQUIRED BY FRAMING GEOMETRY AND IDENTIFY LOCATIONS ON METAL DECK SHOP DRAWINGS.
5. EACH DECK UNIT SHALL BE ATTACHED TO SUPPORTING MEMBERS AND ADJACENT PANELS PER DIAPHRAGM ATTACHMENT REQUIREMENTS SPECIFIED ON DRAWINGS.
6. SUBMIT CHECKED SHOP DRAWINGS TO THE ENGINEER FOR REVIEW INDICATING LOCATION, GAGE AND SIZE OF EACH PIECE OF DECKING. SHOW FASTENING DETAILS TO FRAMING AND SIDE LAP CONNECTION DETAILS.
7. DO NOT HANG LOADS EXCEEDING 50 LBS. FROM ANY METAL DECKING. HANG ALL DUCTWORK, PIPING, ETC. DIRECTLY FROM FRAMING MEMBERS OR SUPPLEMENTARY MEMBERS.

LUMBER FRAMING

1. ALL LUMBER SHALL BE SOUTHERN PINE NO. 2 WITH AN ALLOWABLE MINIMUM EXTREME FIBER IN BENDING (FB) OF 1250 PSI FOR SINGLE MEMBER USE.
2. LUMBER SHALL COMPLY WITH PS20 "AMERICAN SOFTWOOD LUMBER STANDARD" WITH APPLICABLE GRADING RULES.
3. ALL PLYWOOD SHEATHING SHALL BE APA RATED, 5/8" PANELS. SEE DETAILS FOR LIMITS & LOCATIONS OF PLYWOOD DECKING.
4. PLYWOOD SHALL CONFORM TO REQUIREMENTS OF PS 1 "U.S. PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" AND AMERICAN PLYWOOD ASSOCIATION (APA) "PERFORMANCE STANDARD AND QUALIFICATION POLICY FOR STRUCTURAL USE PANELS", FORM NO. PRP-108.
5. FACTORY MARK EACH CONSTRUCTION PANEL WITH APA TRADEMARK INDICATING COMPLIANCE WITH GRADE REQUIREMENTS. ROOF SHEATHING: EXPOSURE DURABILITY CLASSIFICATION - EXTERIOR EXPOSURE 1.
6. PROVIDE FASTENERS AND ANCHORAGE AS INDICATED AND AS RECOMMENDED BY APPLICABLE STANDARDS, COMPLYING WITH FEDERAL STANDARDS FOR NAILS, STAPLES, SCREWS, BOLTS, NUTS, WASHERS AND ANCHORING DEVICES.
7. WHERE ROUGH CARPENTRY WORK IS EXPOSED TO GROUND OR WEATHER, USE FASTENERS WITH A HOT-DIP ZINC COATING (ASTM A153).
8. PRESSURE TREATED LUMBER WITH WATER BORNE PRESERVATIVES TO COMPLY WITH AWPB LP-2 FOR ALL LUMBER EXPOSED TO MOISTURE INCLUDING BUT NOT LIMITED TO WOOD CANTS, NAILERS, BLOCKING, STRIPPING, MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS AND WATERPROOFING, SILLS, SLEEPERS, MEMBERS IN CONTACT WITH MASONRY OR CONCRETE, AND MEMBERS LESS THAN 18" ABOVE GRADE.

PREFABRICATED WOOD TRUSSES

1. SUBMIT ENGINEERED AND CHECKED TRUSS SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOW SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION PLANS FOR ALL PREFABRICATED WOOD TRUSSES.
2. SUBMIT TRUSS MEMBER, BRACING, AND CONNECTION DESIGN CALCULATIONS, PREPARED AND SEALED BY A QUALIFIED STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, TO THE ENGINEER FOR REVIEW.
3. DESIGN ALL TRUSS MEMBERS AND CONNECTIONS IN ACCORDANCE WITH THE LATEST EDITIONS OF TP1 "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES" AND AND NFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" TO SUPPORT ALL LOAD CONFIGURATIONS INDICATED.
4. ALL TIMBER SHALL BE NEW TIMBER WITH THE FOLLOWING MINIMUM MATERIAL PROPERTIES:

EXTREME FIBER BENDING STRESS	1450 PSI
HORIZONTAL SHEAR STRESS	95 PSI
COMPRESSION PARALLEL TO GRAIN	1000 PSI
MODULES OF ELASTICITY	1,700,000 PSI

5. TRUSS CONNECTOR PLATES SHALL BE FORMED FROM NEW SHEET STEEL, 20 GAGE MINIMUM, CONFORMING TO ASTM A446 WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI. CONNECTOR PLATES SHALL BE HOT-DIPPED GALVANIZED, COATING DESIGNATION G60.
6. PROVIDE TRUSSES WITH AN UPWARD CAMBER WHICH OFFSETS TRUSS DEFLECTIONS CAUSED BY MEMBER SELF-WEIGHT, ROOF SHEATHING, HUNG CEILING AND MECHANICAL UNITS.
7. THE TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE ALL TEMPORARY TRUSS BRACING, BRIDGING AND SHORING AS REQUIRED FOR THE SAFETY, STABILITY AND ALIGNMENT OF THE ROOF AND/OR FLOOR TRUSS SYSTEM. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL THE PERMANENT LATERAL LOAD RESISTING SYSTEM IS FULLY OPERATIONAL.
8. HANDLE AND ERECT ALL TRUSSES IN SUCH A MANNER AS TO AVOID PERMANENT STRUCTURAL DAMAGE TO TRUSS MEMBERS OR CONNECTIONS. HOIST TRUSSES INTO POSITION ONLY AT POINTS SPECIFICALLY DESIGNED AND DESIGNATED BY THE TRUSS MANUFACTURER.
9. DO NOT FIELD CUT OR MODIFY TRUSS MEMBERS OR CONNECTIONS WITHOUT THE PRIOR REVIEW OR ACCEPTANCE OF THE ENGINEER OR TRUSS MANUFACTURER.

COLD-FORMED METAL TRUSSES

1. DESIGN, FABRICATE AND ERECT LIGHT GAGE TRUSSES IN ACCORDANCE WITH AISI SG-971 - SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCT MEMBERS; 1996, WITH 2000 SUPPLEMENT. ERECTION PLANS, TRUSS AND CONNECTION CALCULATIONS, DESIGNED BY THE CONTRACTOR, SHALL BE SUBMITTED FOR THE FILES OF THE STRUCT ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
2. TRUSS MANUFACTURER SHALL DESIGN FOR THE SUPERIMPOSED DEAD AND LIVE LOADS INDICATED ON DRAWING S-301.
3. DESIGN ROOF TRUSSES TO RESIST A WIND UPLIFT PRESSURE APPLIED NORMAL TO THE ROOF PLANE - SEE NET UPLIFT PLAN.
4. IN ADDITION TO THE ABOVE LOADS, LIGHT GAGE TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. SEE STRUCTURAL ROOF FRAMING PLAN AS WELL AS MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.
5. INDICATE ALL LIGHT GAGE TRUSS CONNECTIONS AND BRACING, TEMPORARY AND PERMANENT, ON THE SHOP DRAWINGS. CONNECTORS AND BRACING MEMBERS SHALL BE FURNISHED BY THE TRUSS MANUFACTURER AND INSTALLED BY THE CONTRACTOR. SHOP DRAWINGS THAT DO NOT INCLUDE THESE DETAILS WILL RESULT IN SHOP DRAWINGS BEING RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.
6. TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.
7. COMPLY WITH AWS D1.1 AND AWS D1.3, AS APPLICABLE, FOR WELDING BASE METALS LESS THAN 1/8 INCH THICK. QUALIFY WELDING PROCESSES AND WELDING OPERATORS IN ACCORDANCE WITH AWS B2.1.
8. VERTICAL LIVE LOAD DEFLECTION ON ROOF TRUSSES SHALL BE LESS THAN OR EQUAL TO 1/240 OF SPAN.
9. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS WITHOUT DAMAGE OR OVER STRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO MAXIMUM AMBIENT TEMPERATURE RANGE OF 120 DEGREES F (67 DEGREES C).
10. STORE TRUSSES ON BLOCKING, PALLETS, PLATFORMS OR OTHER SUPPORTS OFF THE GROUND AND IN AN UPRIGHT POSITION SUFFICIENTLY BRACED TO AVOID DAMAGE FROM EXCESSIVE BENDING.
11. PROTECT TRUSSES AND ACCESSORIES FROM CORROSION, DEFORMATION, DAMAGE AND DETERIORATION WHEN STORED AT JOB SITE. KEEP TRUSSES FREE OF DIRT AND OTHER FOREIGN MATTER.
12. DURING CONSTRUCTION, ADEQUATELY DISTRIBUTE ALL LOADS APPLIED TO TRUSSES SO AS NOT TO EXCEED THE CARRYING CAPACITY OF ANY ONE JOIST, TRUSS OR OTHER COMPONENT.
13. PROVIDE MANUFACTURER'S STANDARD STEEL TRUSS MEMBERS, BRACING, BRIDGING, BLOCKING, REINFORCEMENTS, FASTENERS AND ACCESSORIES WITH EACH TYPE OF STEEL FRAMING REQUIRED, AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION INDICATED AND AS NEEDED TO PROVIDE A COMPLETE LIGHT GAUGE COLD-FORMED STEEL TRUSS SYSTEM.
14. PROVIDE HOT-DIPPED GALVANIZED COATING FINISH, MINIMUM G90/Z275.
15. BRACING, BRIDGING AND BLOCKING MEMBERS: FABRICATE COMPONENTS OF ASTM A 653/A 653M CS TYPE B STEEL SHEET WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
16. FASTENERS: MANUFACTURER RECOMMENDED SELF-DRILLING, SELF TAPPING SCREWS WITH CORROSION-RESISTANT PLATED FINISH OF SUFFICIENT SIZE AND NUMBER TO ENSURE THE STRENGTH OF THE CONNECTION.
17. TRUSSES SHALL BE FASTENED TO CONCRETE BEAMS AND MASONRY BOND BEAMS USING CLIPS AND FASTENERS INDICATED ON PLANS

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

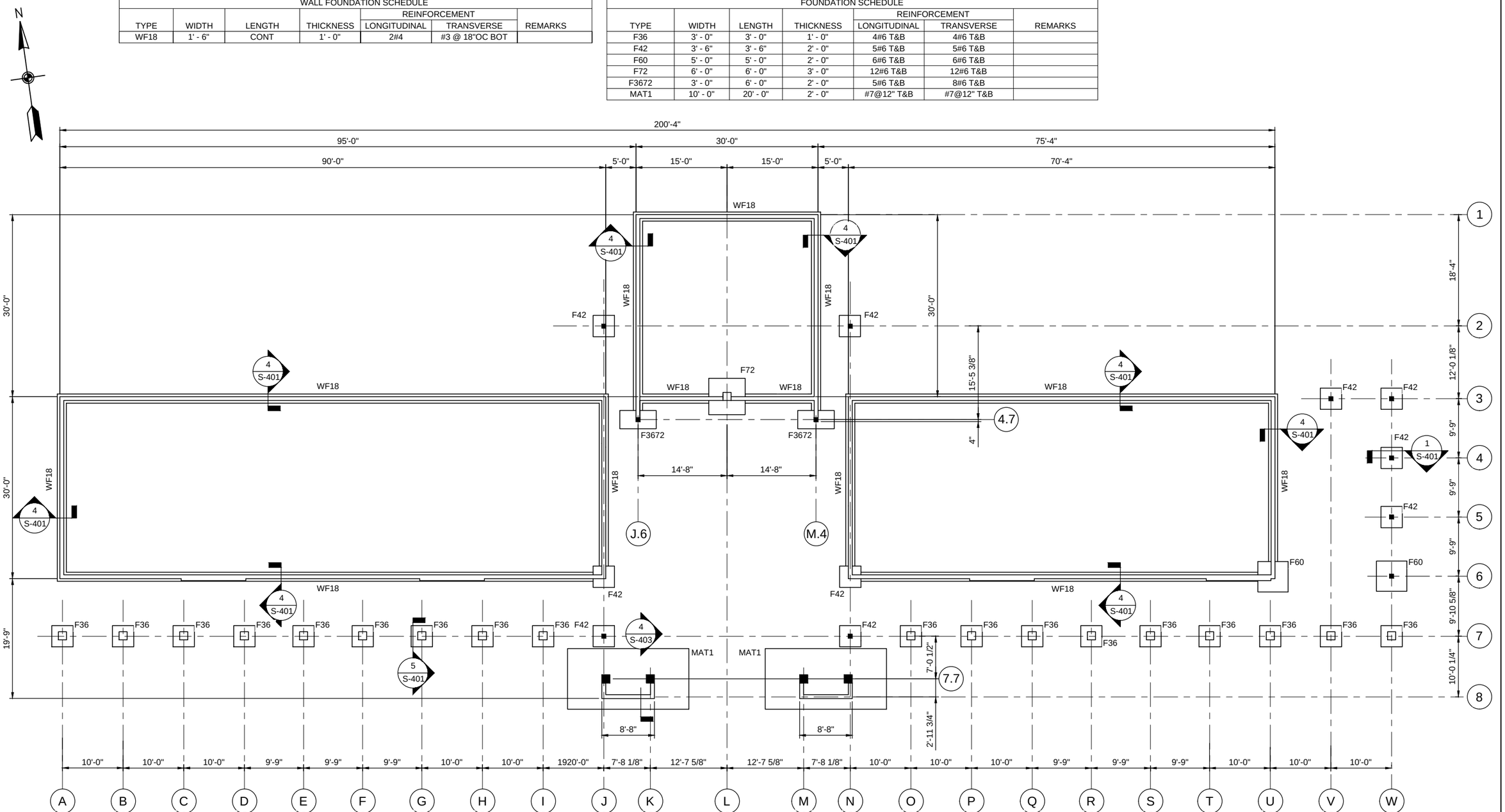
STRUCTURAL GENERAL NOTES 4

DRAWING NO. S-004

SHEET NO. 4 OF 26

WALL FOUNDATION SCHEDULE						
				REINFORCEMENT		
TYPE	WIDTH	LENGTH	THICKNESS	LONGITUDINAL	TRANSVERSE	REMARKS
WF18	1' - 6"	CONT	1' - 0"	2#4	#3 @ 18"OC BOT	

FOUNDATION SCHEDULE						
				REINFORCEMENT		
TYPE	WIDTH	LENGTH	THICKNESS	LONGITUDINAL	TRANSVERSE	REMARKS
F36	3' - 0"	3' - 0"	1' - 0"	4#6 T&B	4#6 T&B	
F42	3' - 6"	3' - 6"	2' - 0"	5#6 T&B	5#6 T&B	
F60	5' - 0"	5' - 0"	2' - 0"	6#6 T&B	6#6 T&B	
F72	6' - 0"	6' - 0"	3' - 0"	12#6 T&B	12#6 T&B	
F3672	3' - 0"	6' - 0"	2' - 0"	5#6 T&B	8#6 T&B	
MAT1	10' - 0"	20' - 0"	2' - 0"	#7@12" T&B	#7@12" T&B	



NOTES:
1. TOP OF FOUNDATION ELEVATION IS (-1'-4") UNO FROM REFERENCE DATUM ELEVATION (TOP OF SLAB EL. 123.0').
2. COORDINATE ALL DIMENSIONS, ELEVATIONS, SECTIONS, AND DETAILS WITH ARCHITECTURAL DRAWINGS.

1 / S-100 FOUNDATION PLAN

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

100% CONSTRUCTION DOCUMENTS

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

FOUNDATION PLAN

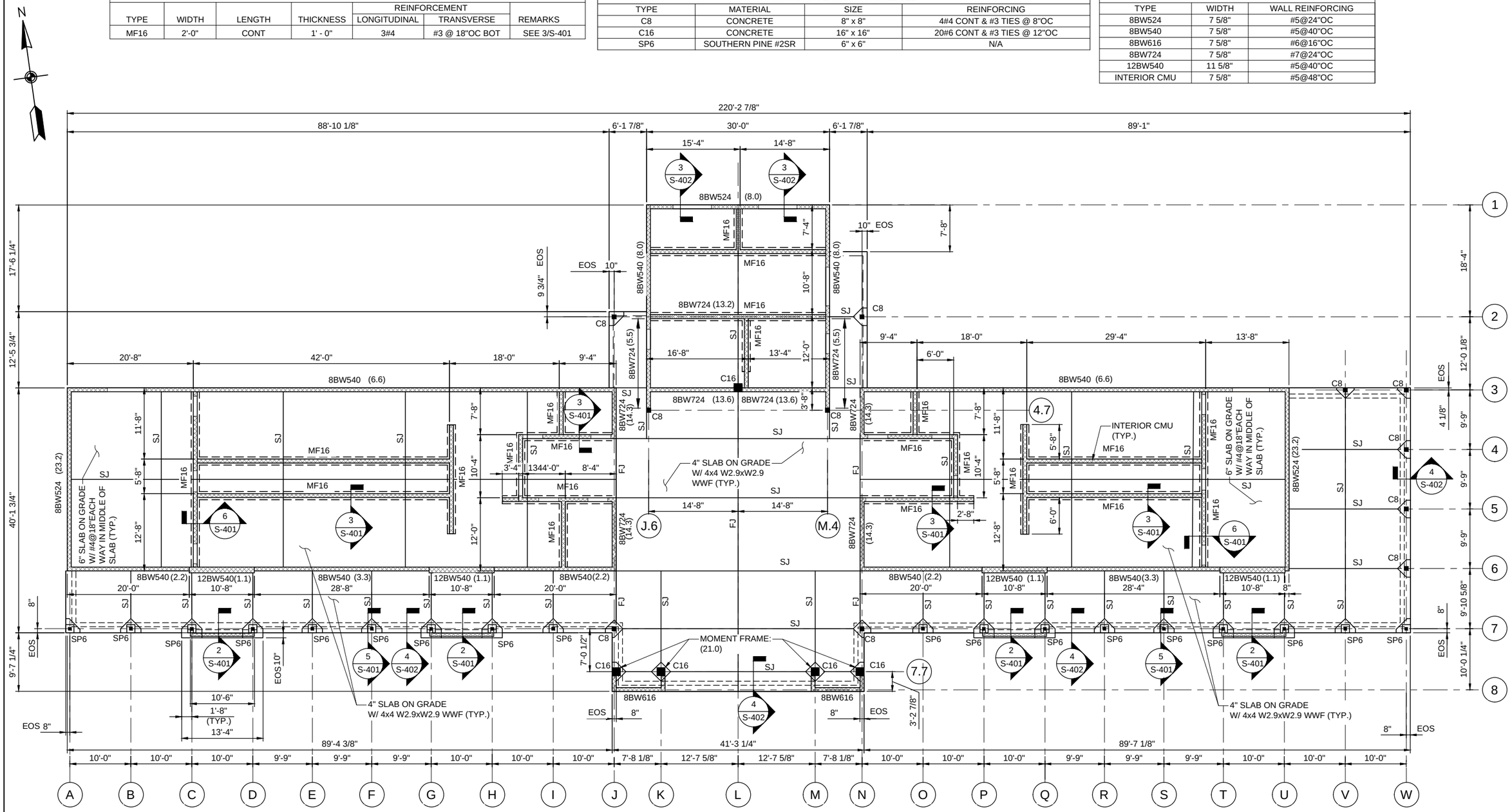
DRAWING NO. S-100

SHEET NO. 5 OF 26

WALL FOUNDATION SCHEDULE						
				REINFORCEMENT		
TYPE	WIDTH	LENGTH	THICKNESS	LONGITUDINAL	TRANSVERSE	REMARKS
MF16	2'-0"	CONT	1' - 0"	3#4	#3 @ 18"OC BOT	SEE 3/S-401

STRUCTURAL COLUMN SCHEDULE			
TYPE	MATERIAL	SIZE	REINFORCING
C8	CONCRETE	8" x 8"	4#4 CONT & #3 TIES @ 8"OC
C16	CONCRETE	16" x 16"	20#6 CONT & #3 TIES @ 12"OC
SP6	SOUTHERN PINE #2SR	6" x 6"	N/A

WALL SCHEDULE		
TYPE	WIDTH	WALL REINFORCING
8BW524	7 5/8"	#5@24"OC
8BW540	7 5/8"	#5@40"OC
8BW616	7 5/8"	#6@16"OC
8BW724	7 5/8"	#7@24"OC
12BW540	11 5/8"	#5@40"OC
INTERIOR CMU	7 5/8"	#5@48"OC



NOTES:
1. TOP OF CONCRETE SLAB ELEVATION IS (+0'-0") UNO FROM REFERENCE DATUM ELEVATION (TOP OF SLAB EL. 123.0').
2. SLAB-ON-GRADE SHALL BE 4" THICK U.N.O. WITH WELDED WIRE REINFORCEMENT PLACED 1-1/2" CLEAR FROM TOP OF SLAB. PLACE ON 10 MIL POLYETHYLENE VAPOR BARRIER IN AREAS WHERE AIR CONDITIONING IS REQUIRED. SEE GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS.
3. COORDINATE ALL DIMENSIONS, ELEVATIONS, OPENING, SECTIONS, AND DETAILS WITH ARCHITECTURAL DRAWINGS.
4. CONTROL JOINTS NOTED AS FJ OR SJ. SEE TYPICAL DETAILS. CONTROL JOINT SPACING SHALL NOT EXCEED 25'-0" WITH A MAXIMUM ASPECT RATIO OF 1:1.5 FOR THE PANELS.
5. MASONRY SHEAR WALLS AND CONCRETE MOMENT FRAMES ARE DESIGNED FOR THE IDENTIFIED LATERAL ASD SHEAR LOADS NOTED ON PLAN THUS: (XX) KIPS. LIGHT GAGE TRUSS MANUFACTURER SHALL VERIFY THAT LATERAL LOADS APPLIED BY TRUSS BRACING SYSTEM DO NOT EXCEED THE IDENTIFIED LOADS.
6. PROVIDE PREMOLDED JOINT FILLER, BACKER ROD, AND JOINT SEALANT AT INTERFACE OF SLAB-ON-GRADE WITH MASONRY WALLS.

1 / S-101 SLAB ON GRADE PLAN

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

100% CONSTRUCTION DOCUMENTS

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

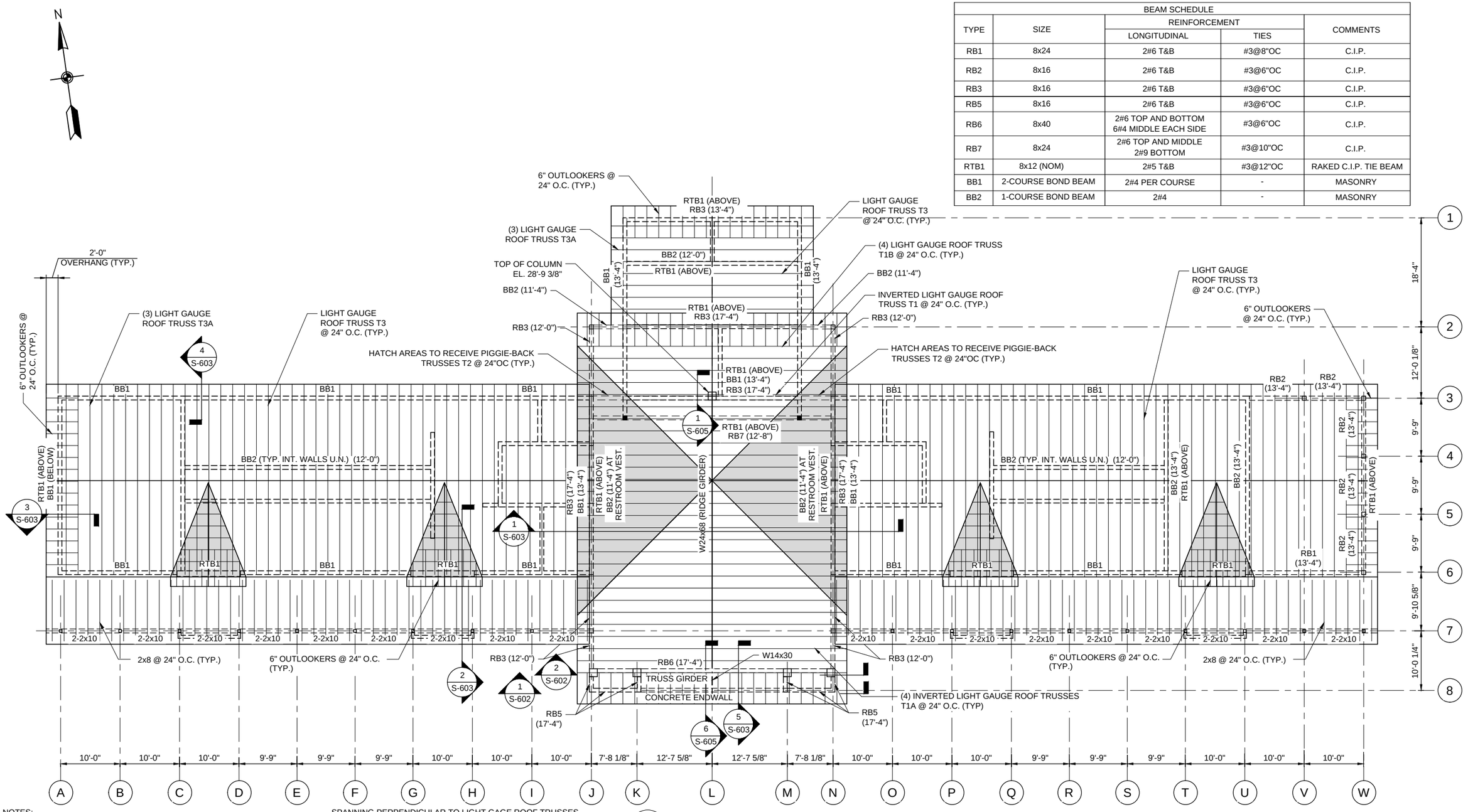
SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

SLAB ON GRADE PLAN

DRAWING NO. S-101

SHEET NO. 6 OF 26

BEAM SCHEDULE				
TYPE	SIZE	REINFORCEMENT		COMMENTS
		LONGITUDINAL	TIES	
RB1	8x24	2#6 T&B	#3@8"OC	C.I.P.
RB2	8x16	2#6 T&B	#3@6"OC	C.I.P.
RB3	8x16	2#6 T&B	#3@6"OC	C.I.P.
RB5	8x16	2#6 T&B	#3@6"OC	C.I.P.
RB6	8x40	2#6 TOP AND BOTTOM 6#4 MIDDLE EACH SIDE	#3@6"OC	C.I.P.
RB7	8x24	2#6 TOP AND MIDDLE 2#9 BOTTOM	#3@10"OC	C.I.P.
RTB1	8x12 (NOM)	2#5 T&B	#3@12"OC	RAKED C.I.P. TIE BEAM
BB1	2-COURSE BOND BEAM	2#4 PER COURSE	-	MASONRY
BB2	1-COURSE BOND BEAM	2#4	-	MASONRY



NOTES:

1. TOP OF CONCRETE BEAM AND MASONRY BOND BEAM ELEVATION IS (+13'-4") UNO FROM REFERENCE DATUM ELEVATION OF (TOP OF SLAB EL. 123.0').
2. TOP OF WOOD BEAM ELEVATION IS (+11'-1 1/4") UNO FROM REFERENCE DATUM ELEVATION.
3. TOP OF STEEL BEAM ELEVATION IS (+30'-10 1/8") UNO FROM REFERENCE DATUM ELEVATION.
4. PROVIDE SINGLE COURSE BOND BEAM WITH (2) #4 CONT AT LOUVER, WINDOW AND MANDOOR OPENINGS.
5. TYPICAL ROOF DECK SHALL BE 1 1/2" TYPE B, 20 GA (GALVANZIED) SPANNING PERPENDICULAR TO LIGHT GAGE ROOF TRUSSES.
6. ROOF DECK ABOVE WOOD JOISTS SHALL BE 2x6 TONGUE AND GROOVE DECK.
7. ROOF TRUSSES SHALL BE DESIGNED FOR LOADS SHOWN ON THE TRUSS LOADING DIAGRAMS ON DRAWING S-301. TRUSS MANUFACTURER IS RESPONSIBLE FOR ALL LOAD COMBINATIONS TO PRODUCE THE MAXIMUM LOAD EFFECT FOR EACH TRUSS MEMBER.
8. TRUSS MANUFACTURER SHALL DESIGN PERMANENT TRUSS BRACING TO DISTRIBUTE LATERAL LOADS TO THE SHEAR WALLS AND CONCRETE MOMENT FRAME IDENTIFIED ON DRAWING S-101.
9. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY ERECTION BRACING.

1/S-102 ROOF FRAMING PLAN

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

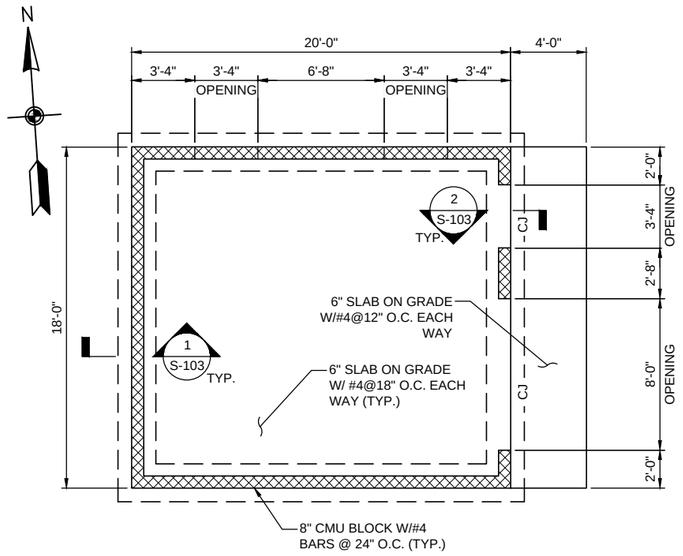
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

ROOF FRAMING PLAN

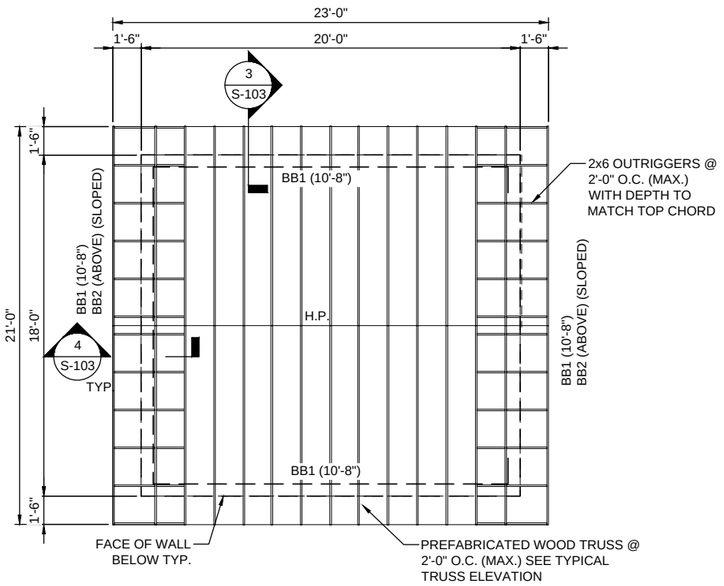
DRAWING NO. S-102

SHEET NO. 7 OF 26



STORAGE ROOM FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

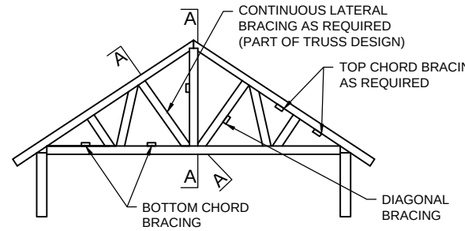


STORAGE ROOM ROOF PLAN

SCALE: 1/8" = 1'-0"

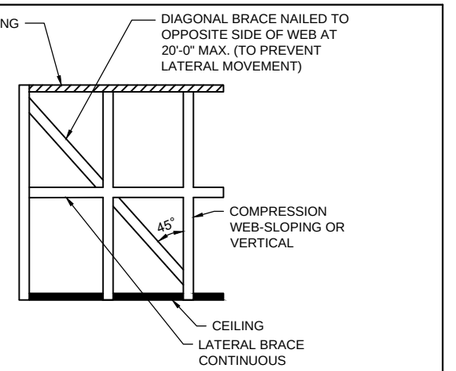
NOTES:

1. TOP MASONRY BOND BEAM ELEVATIONS ARE FROM REFERENCE DATUM ELEVATION. SEE BEAM SCHEDULE ON DRAWING S-102.
2. PROVIDE SINGLE COURSE BOND BEAM WITH (2)#4 CONT. AT MANDOOR AND LOUVER OPENINGS.
3. ROOF DECK ABOVE WOOD TRUSSES SHALL BE 5/8" THICK PLYWOOD. FASTEN ROOF DECK TO TRUSSES WITH 8D COMMON NAILS @ 6" O.C. AT EDGE MEMBERS AND @ 12" AT INTERMEDIATE MEMBERS
4. ROOF TRUSSES SHALL BE DESIGNED FOR LOADS SHOWN ON THE TRUSS LOADING DIAGRAM ON DRAWING S-301. TRUSS MANUFACTURER RESPONSIBLE FOR ALL LOAD COMBINATIONS TO PRODUCE THE MAXIMUM LEAD AFFECT FOR EACH TRUSS MEMBER.
5. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY ERECTION BRACING.



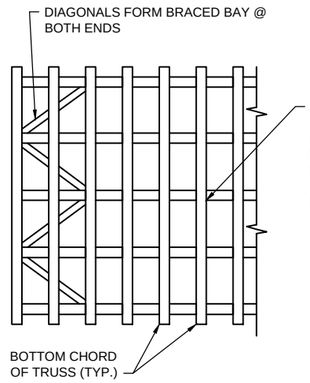
TYPICAL TRUSS ELEVATION

SCALE: 3/8" = 1'-0"



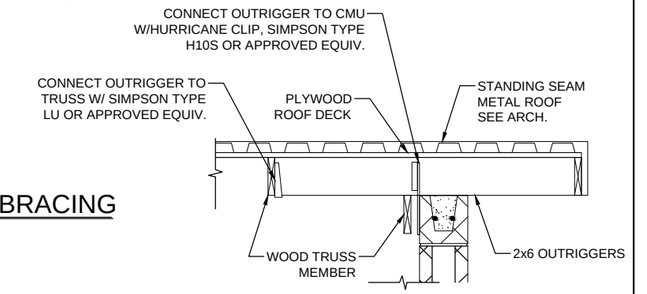
SECTION A-A

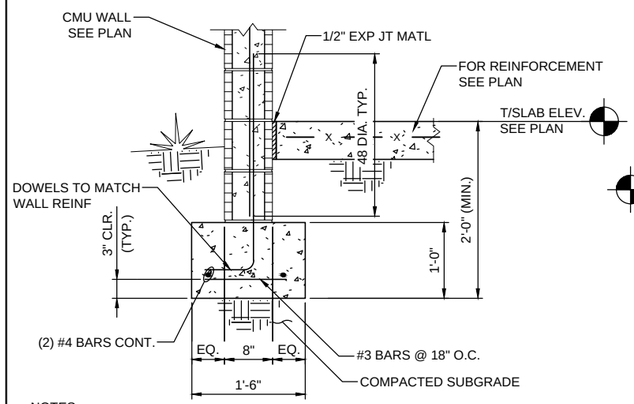
SCALE: 3/8" = 1'-0"



TOP/BOTTOM CHORD BRACING

SCALE: 3/8" = 1'-0"



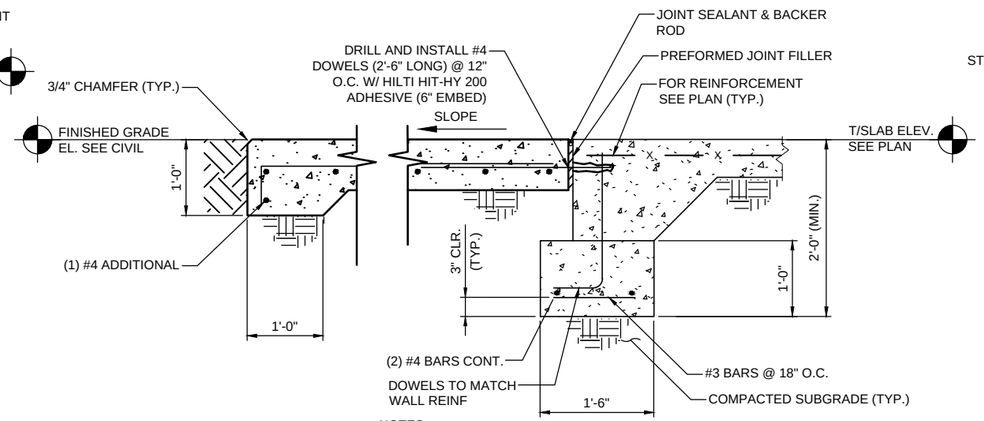


NOTES:

1. SEE MASONRY WALL DETAIL 1/S-504 FOR ADDITIONAL INFORMATION

1 S-103 TYP SECTION @ CMU WALL FND.

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

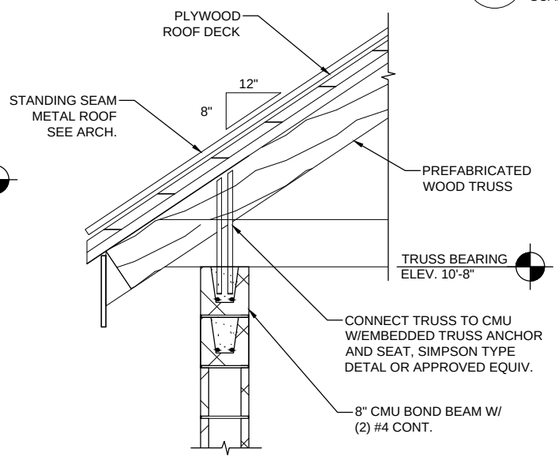


NOTES:

1. SEE MASONRY WALL DETAIL 1/S-504 FOR ADDITIONAL INFORMATION

2 S-103 TYP SECTION @ DOOR OPENING

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



3 S-103 SECTION

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

4 S-103 SECTION

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

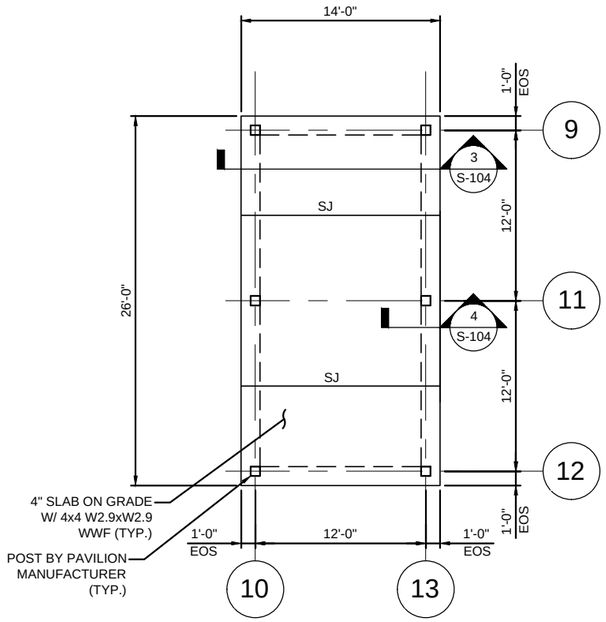
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

STORAGE ROOM

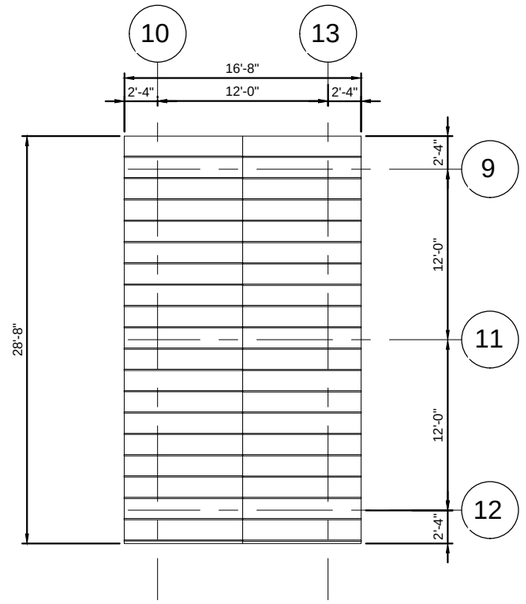
DRAWING NO. S-103

SHEET NO. 8 OF 26



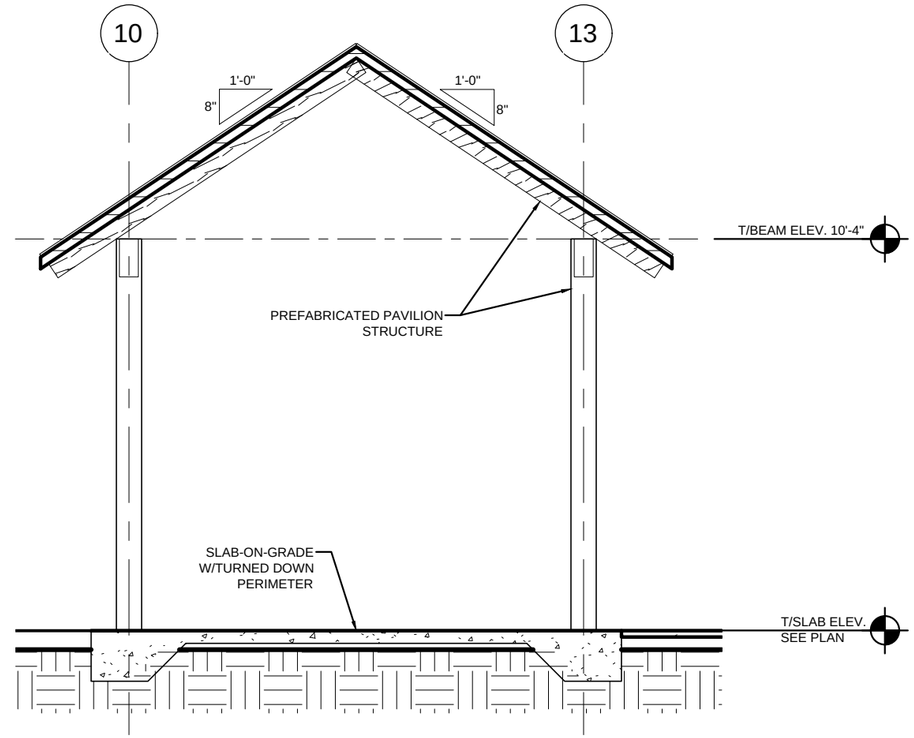
1 S-104 PAVILLION FOUNDATION PLAN

SCALE:3/32" = 1'-0"



2 S-104 PAVILLION ROOF PLAN

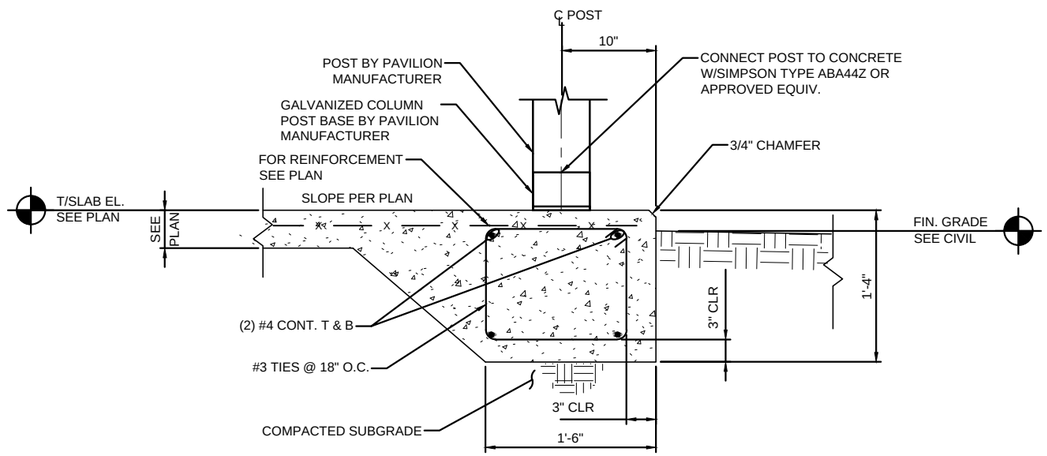
SCALE:3/32" = 1'-0"



3 S-104 SECTION

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

NOTES:
1. TOP OF SLAB ELEVATION IS (+0'-0") FROM DATUM ELEVATION (VARIES - SEE CIVIL).
2. CONTROL JOINTS NOTED AS SJ, SEE TYPICAL DETAIL.



4 S-401 SECTION

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

NOTE:
PRE-FABRICATED PICNIC PAVILION STRUCTURE SHALL BE IN ACCORDANCE WITH FDOT INDEX 530.

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

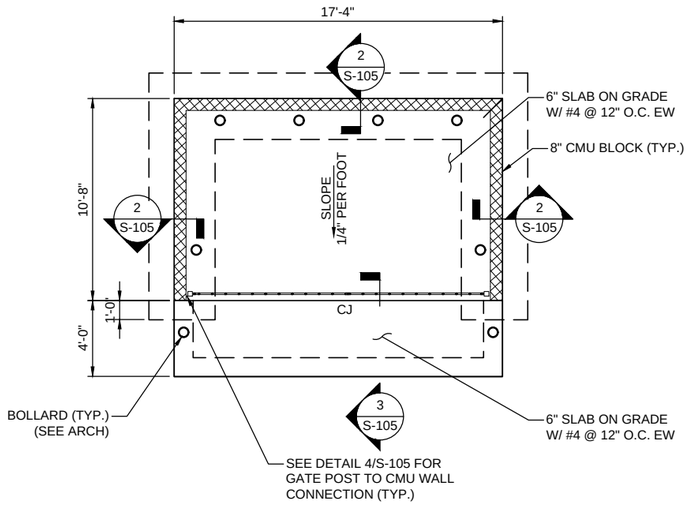
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

PICNIC PAVILION

DRAWING NO. S-104

SHEET NO. 9 OF 26

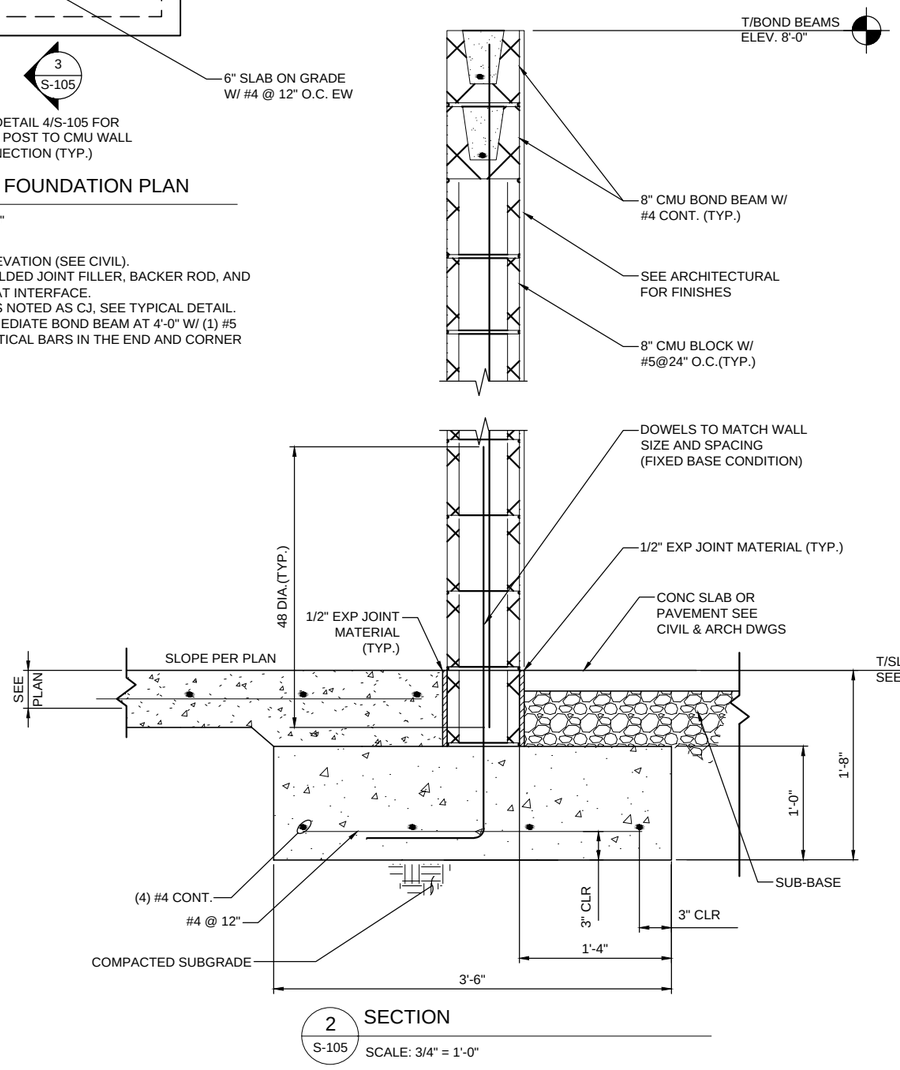


1 S-105 DUMPSTER FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

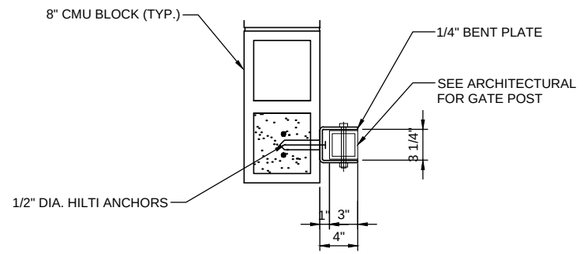
NOTES:

1. TOP OF SLAB ELEVATION (SEE CIVIL).
2. PROVIDE PREMOLDED JOINT FILLER, BACKER ROD, AND JOINT SEALANT AT INTERFACE.
3. CONTROL JOINTS NOTED AS CJ, SEE TYPICAL DETAIL.
4. PROVIDE INTERMEDIATE BOND BEAM AT 4'-0" W/ (1) #5
5. PROVIDE (2) VERTICAL BARS IN THE END AND CORNER CMU CELLS.



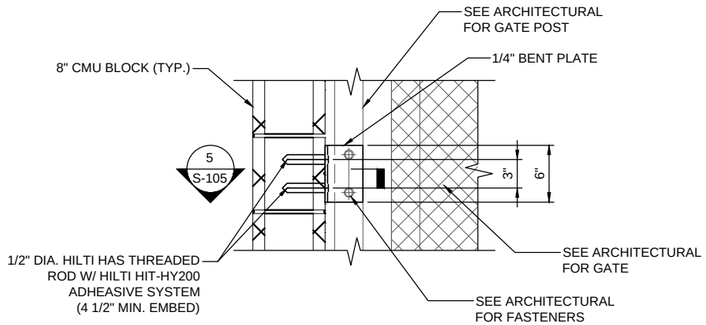
2 S-105 SECTION

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



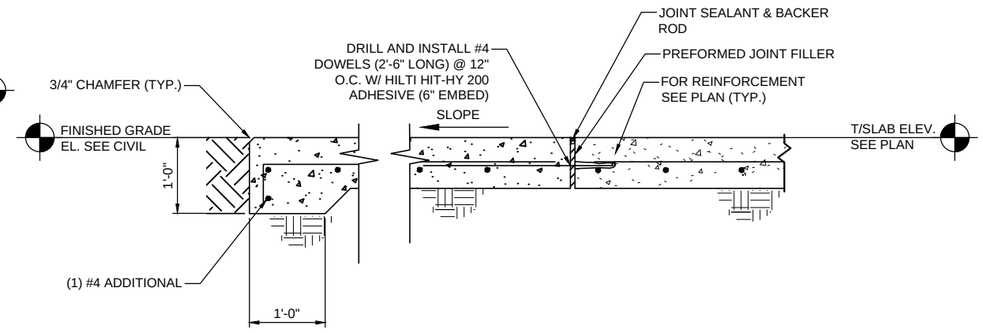
5 S-105 SECTION

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



4 S-105 DETAIL

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



3 S-103 SECTION

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
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CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

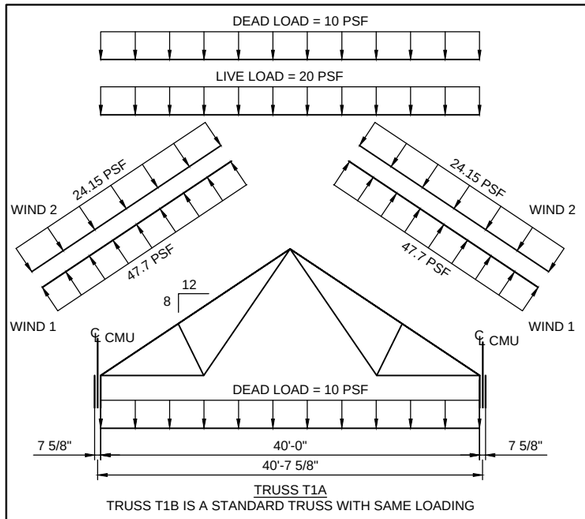
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

DUMPSTER PLAN,
SECTIONS AND DETAILS

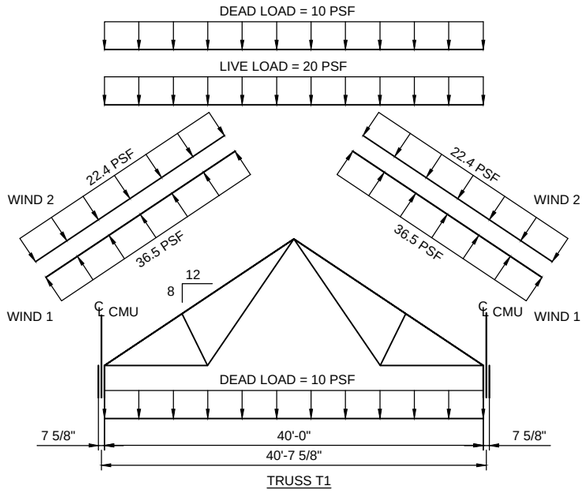
DRAWING NO. S-105

SHEET NO. 10 OF 26

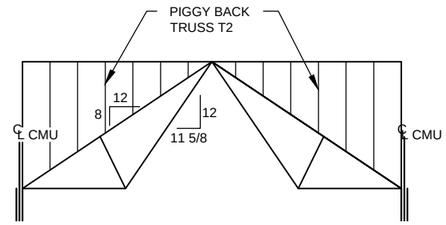


TRUSS T1A

TRUSS T1B IS A STANDARD TRUSS WITH SAME LOADING

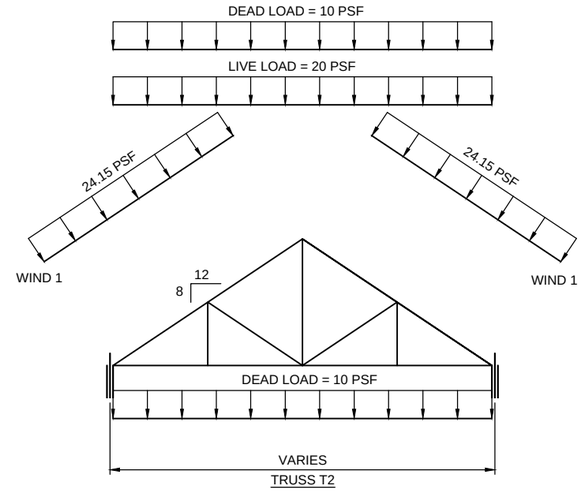


TRUSS T1

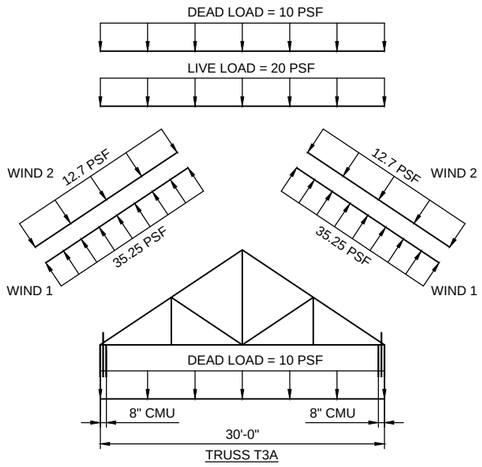


TRUSS T1

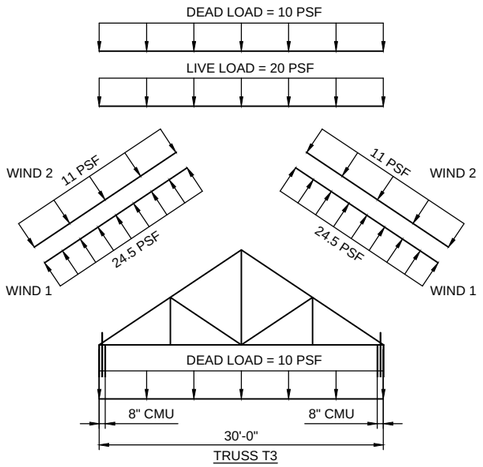
TRUSS T1B IS A STANDARD TRUSS WITH SAME LOADING



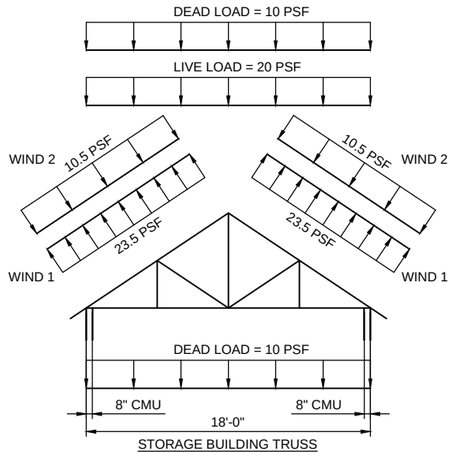
TRUSS T2



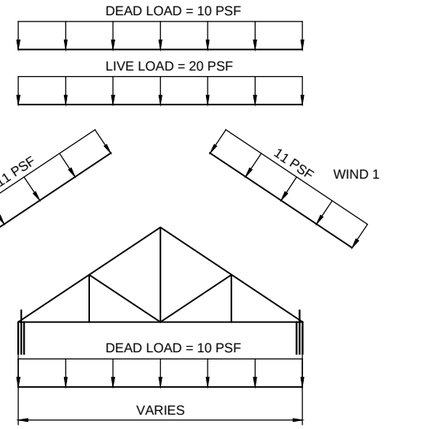
TRUSS T3A



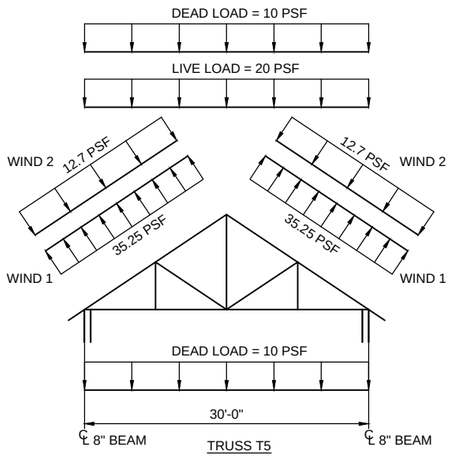
TRUSS T3



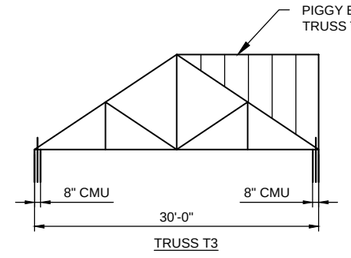
STORAGE BUILDING TRUSS



TRUSS T4



TRUSS T5



TRUSS T3

NOTES:
1. TRUSS MEMBER CONFIGURATION FOR DIAGRAMATIC PURPOSES ONLY. COORDINATE TRUSS LAYOUT AND CONFIGURATION WITH ARCHITECTURAL DRAWINGS.
2. POINT LOADS HAVE BEEN INCLUDED IN BOTTOM CHORD UNIFORM DEAD LOAD.
3. DESIGN BOTTOM CHORD FOR BENDING LOADS FROM CONCENTRATED LOADS BETWEEN PANEL POINTS FOR CONDITION THAT PRODUCES THE MAXIMUM LOAD EFFECT.

100% CONSTRUCTION DOCUMENTS

REVISIONS					
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GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

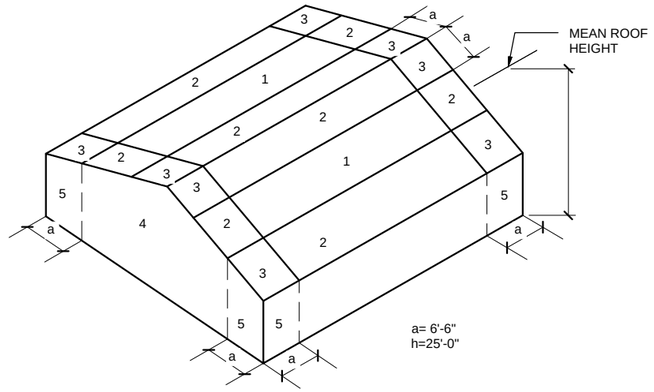
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

TRUSS LOAD DIAGRAMS

DRAWING NO. S-301

SHEET NO. 11 OF 26



1 S-302 COMPONENTS & CLADDING BUILDING WIND PRESSURES

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

NOMINAL C&C WIND PRESSURE PLAN NOTES:

1. PRESSURES INDICATED ARE NOMINAL COMPONENTS AND CLADDING GROSS PRESSURES, CONVERTED FROM ULTIMATE PRESSURES USING A 0.6 MULTIPLIER FACTOR. NO FURTHER REDUCTION IS ALLOWED.
2. a - INDICATES END ZONE WIDTH IN FT.
3. Vult AND Vasd INDICATE ULTIMATE AND NOMINAL DESIGN WIND SPEED IN MPH RESPECTIVELY.
4. GROSS PRESSURES SHALL BE LINEARLY INTERPOLATED FOR (A) NOT SHOWN IN TABLE.
5. GROSS PRESSURES ARE FOR JOISTS, WINDOWS, DOORS, VENEER, LIGHT GAGE METAL FRAMING, METAL DECK ATTACHMENTS, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS AND CLADDING.
6. POSITIVE PRESSURES INDICATE PRESSURES ACTING TOWARD A PROJECTED SURFACE. NEGATIVE PRESSURES INDICATE PRESSURES ACTING AWAY FROM A PROJECTED SURFACE.
7. ROOF ZONES INCLUDING END CONDITIONS ARE DENOTED AS (1) THRU (3)
8. WALL ZONES INCLUDING END CONDITIONS ARE DENOTED AS (4) AND (5)
9. OVERHANG ZONES (2H) AND (3H) APPLY ONLY TO ROOF OVERHANGS WHERE THE COMPONENT OR CLADDING RECEIVES PRESSURE SIMULTANEOUSLY ON BOTH SIDES (UPWARD SUCTION ON TOP AND UPWARD PRESSURE ON BOTTOM, SUCH AS AT OPEN SOFFITS), AND IS CONTINUOUS WITH FIELD OF ROOF.
10. NET DESIGN ROOF PRESSURES SHALL BE CALCULATED USING THE SELFWEIGHT (DEAD LOAD) OF THE MATERIALS. THE MAXIMUM REDUCTION OF GROSS WIND UPLIFT PRESSURES SHALL BE LIMITED TO THE SELF WEIGHT OF THE ROOF SYSTEM PLUS 5 PSF MAXIMUM FOR SUPERIMPOSED DEAD LOADS.
11. AT ALCOVES AND CANOPIES, THE TOTAL UPLIFT PRESSURE ON THE ALCOVE SOFFIT ORCANOPY SHALL EQUAL THE WALL PRESSURE IN THAT AREA.

WINDOWS/DOORS PERFORMANCE REQUIREMENTS:

PROVIDE WINDOW, DOOR AND FRAME SYSTEMS THAT COMPLY WITH PERFORMANCE REQUIREMENTS INDICATED AS DEMONSTRATED BY TESTING MANUFACTURER'S ASSEMBLIES IN ACCORDANCE WITH FLORIDA BUILDING CODE TEST PROTOCOLS TAS 201, TAS 202 AND TAS 203.

2 S-302 WIND PRESSURES AND NOTES

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

NOMINAL C&C WIND PRESSURE (ASCE 7-10)

BUILDING	a (FT)	Vult (MPH)	GCpi	Area (SF)	ZONE (1) (PSF)	ZONE (2) (PSF)	ZONE (3) (PSF)	ZONE (4) (PSF)	ZONE (5) (PSF)
REST AREA (MAIN BUILDING)	4.6	120	+/- 0.18	<10	+32.0 -34.9	+32.0 -40.9	+32.0 -40.9	+34.9 -37.9	+34.9 -46.8
				20	+31.1 -33.2	+31.1 -39.1	+31.1 -39.1	+33.4 -36.3	+33.4 -43.6
				50	+29.9 -30.8	+29.9 -36.7	+29.9 -36.7	+31.3 -34.3	+31.3 -39.5
				100	+29.0 -29.0	+29.0 -34.9	+29.0 -34.9	+29.7 -32.7	+29.7 -36.3
				500+	---	---	---	+26.1 -29.0	+26.1 -29.0
REST AREA (STORAGE BUILDING)	3.0	120	+/- 0.18	<10	+28.8 -31.4	+28.8 -36.8	+28.8 -36.8	+31.4 -34.1	+31.4 -42.1
				20	+28.0 -29.8	+28.0 -35.2	+28.0 -35.2	+30.0 -32.7	+30.0 -39.3
				50	+26.9 -27.7	+26.9 -33.0	+26.9 -33.0	+28.1 -30.8	+28.1 -35.5
				100	+26.1 -26.1	+26.1 -31.4	+26.1 -31.4	+26.7 -29.4	+26.7 -32.7
				500+	---	---	---	+23.4 -26.1	+23.4 -26.1

100% CONSTRUCTION DOCUMENTS

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GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

SCHEDULES

DRAWING NO. S-302

SHEET NO. 12 OF 26

MASONRY LAP SPLICE SCHEDULE	
BAR SIZE	MINIMUM LAP LENGTH
#4	24"
#5	30"
#6	36"
#7	48"
#8	60"

NOTE:
STAGGER LAPS BETWEEN ADJACENT BARS
MINIMUM 3'-0" FOR ALL HORIZ REINF

REINF BAR DEVELOPMENT LENGTH(Ld) AND LAP SPLICE SCHED.

BAR SIZE	LAP SPLICE	WALLS AND SLABS MIN CONC COVER = 3/4"		BEAMS, COLS, WALLS, SLABS MIN CONC COVER = 1-1/2"	
		TOP (IN)	OTHER (IN)	TOP (IN)	OTHER (IN)
#3	A	13	12	12	12
	B	16	13	15	12
#4	A	22	17	15	12
	B	29	22	20	15
#5	A	35	27	19	15
	B	45	35	24	19
#6	A	50	38	27	21
	B	65	50	35	27
#7	A	85	65	46	35
	B	110	85	59	46
#8	A	110	85	60	46
	B	143	110	77	60
#9	A	140	108	76	58
	B	182	140	98	76
#10	A	178	137	96	74
	B	231	178	125	96

NOTES
1. TABULATED VALUES ARE BASED ON 4000 PSI NORMAL WEIGHT CONCRETE. FOR LIGHTWEIGHT CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3. FOR CONCRETE STRENGTHS OTHER THAN F'c = 4000 PSI, MULTIPLY VALUES BY 63.25 DIVIDED BY THE SQ. ROOT F'c.
2. TOP BARS ARE HORIZ BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
3. THIS SCHED IS VALID ONLY FOR BARS WITH SPECIFIED COVER AND SPACED GREATER THAN TWO TIMES (2X) THE INDICATED COVER DIMENSIONS PLUS ONE BAR DIA.
4. FOR EPOXY COATED BARS, MULTIPLY THE TABULATED VALUES BY 1.5
5. USE CLASS "B" LAP SPLICE UNO.
6. DEVELOPMENT LENGTH Ld EQUALS THE "A" CLASS LAP DIMENSION.

100% CONSTRUCTION DOCUMENTS

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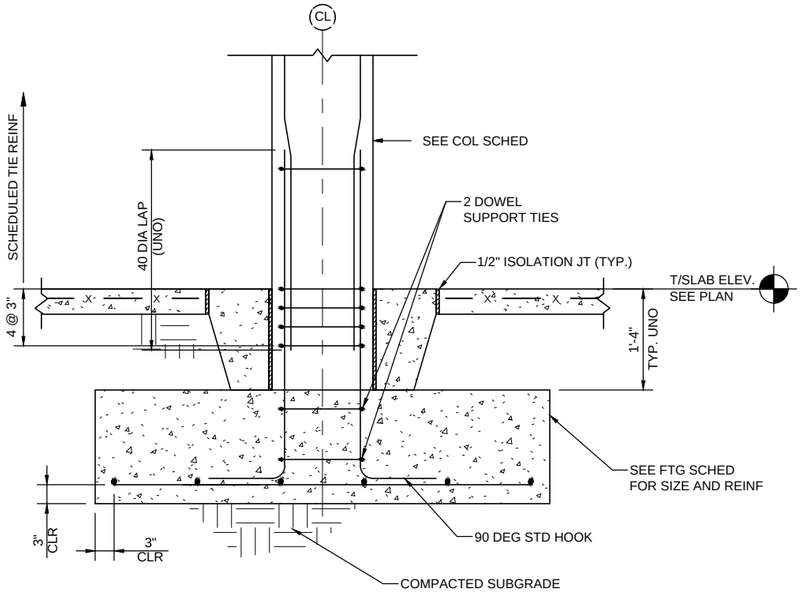
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

SCHEDULES

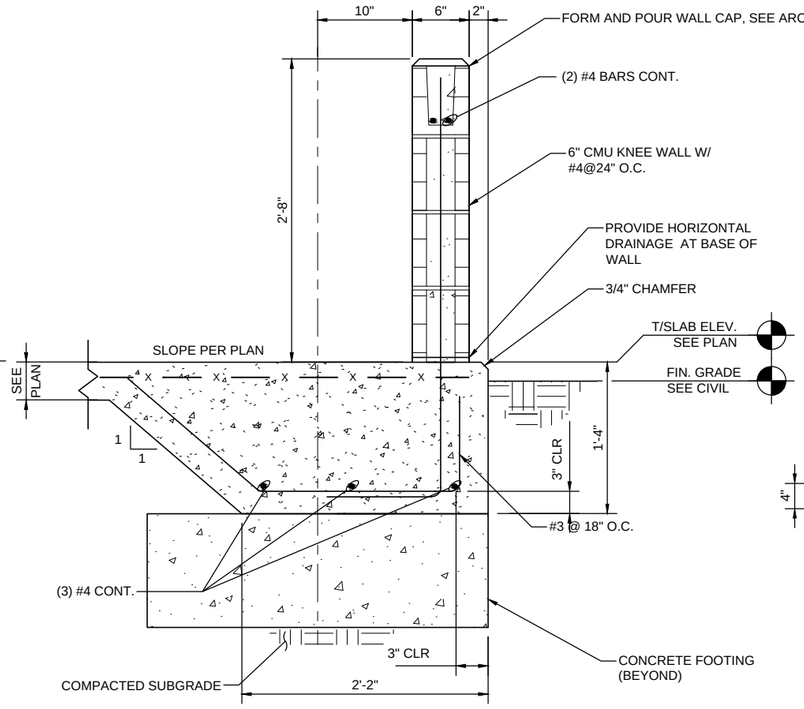
DRAWING NO. S-303

SHEET NO. 13 OF 26



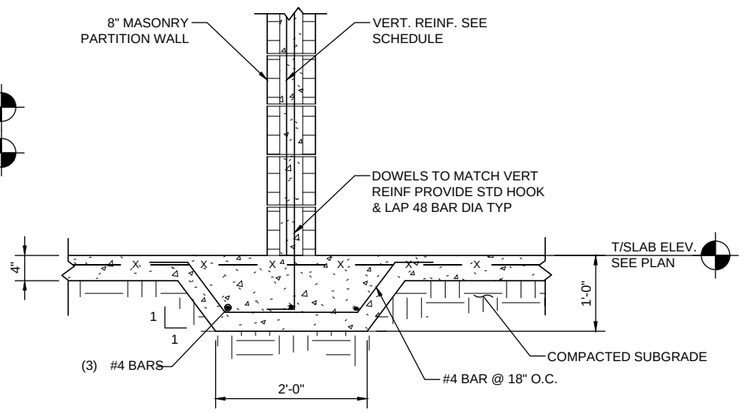
1 S-401 CONCRETE COLUMN ON SPREAD FOOTING

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



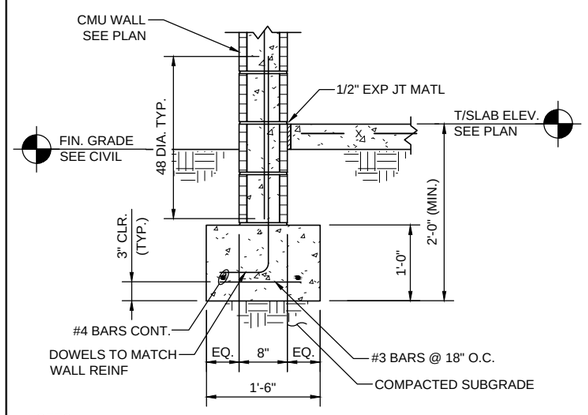
2 S-401 SLAB EDGE DETAIL

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



3 S-401 TYP FTG SECTION AT 8" INTERIOR CMU PARTITION WALL

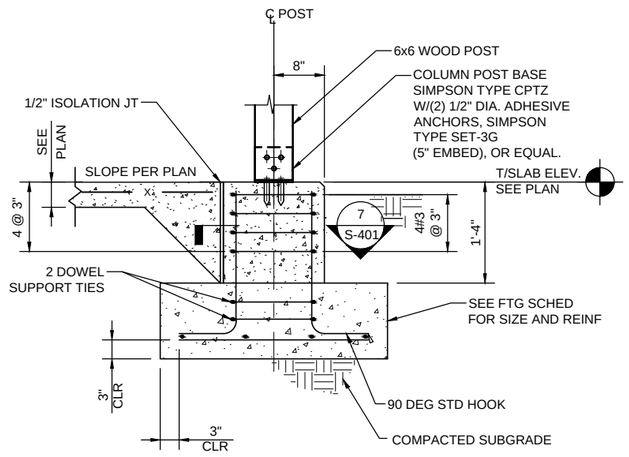
SCALE: 1/2" = 1'-0"



NOTES:
1. SEE SCHEDULE FOR SIZE AND SPACING OF VERT WALL REINF.
2. SEE MASONRY WALL DETAIL 1/S-504 FOR ADDITIONAL INFORMATION

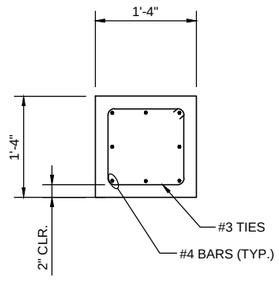
4 S-401 TYP SECTION @ EXTERIOR CMU WALL FND.

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



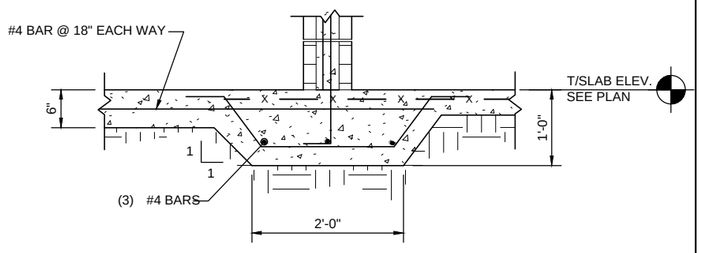
5 S-401 WOOD COLUMN ON PIER DETAIL

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



7 S-401 PIER SECTION

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



FOR ITEMS NOT IDENTIFIED SEE SECTION 3/S401

6 S-401 TYP FTG SECTION AT MECHANICAL ROOM COMMON WALL

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

100% CONSTRUCTION DOCUMENTS

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600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

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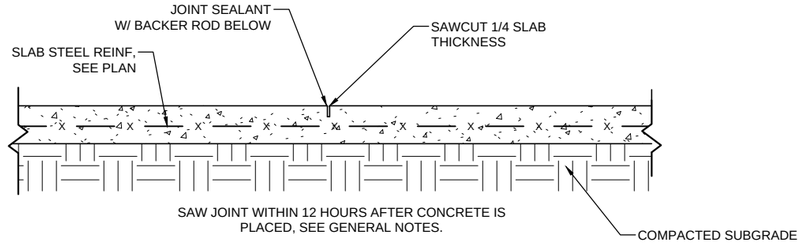
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

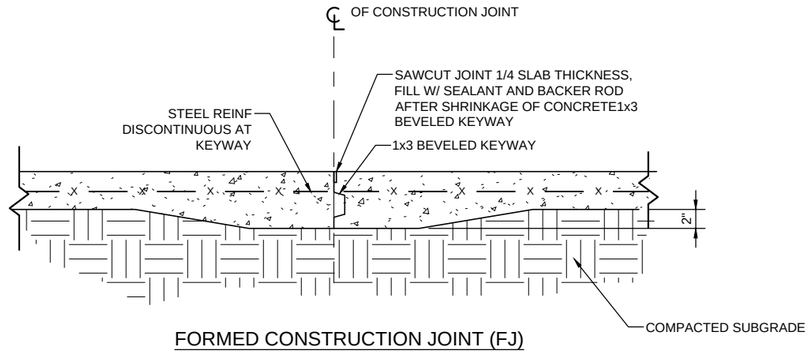
FOUNDATION DETAILS

DRAWING NO. S-401

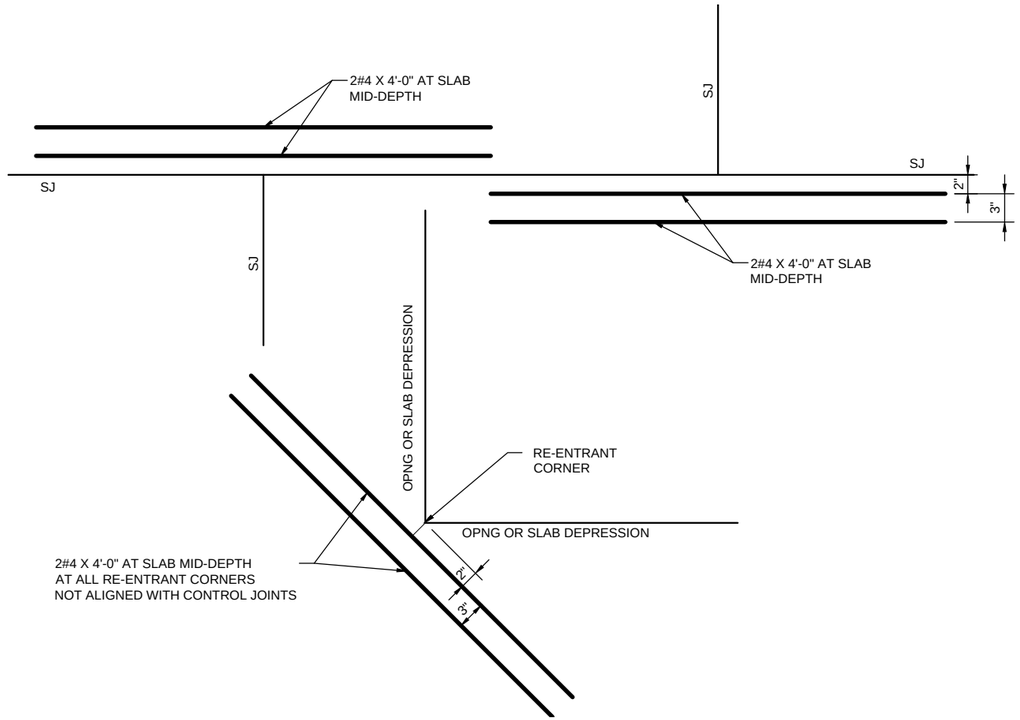
SHEET NO. 14 OF 26



SAWCUT CONTROL JOINT (SJ)

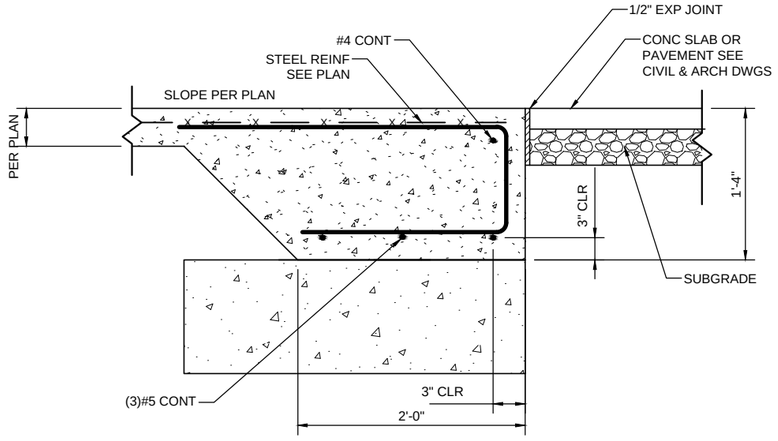


FORMED CONSTRUCTION JOINT (FJ)



1 S-402 SLAB CONTROL AND CONSTRUCTION JOINT DETAILS

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

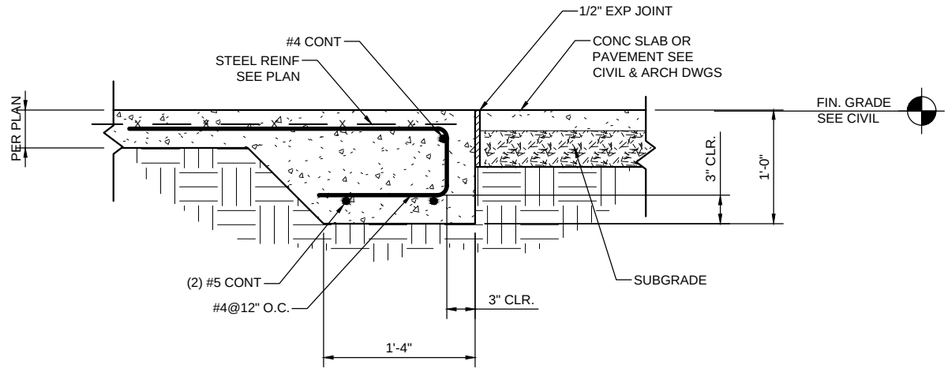


3 S-402 SLAB EDGE AT DOOR-OPENING DETAIL

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

2 S-402 RE-ENTRANT CORNER DETAIL

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



4 S-402 SLAB EDGE DETAIL

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

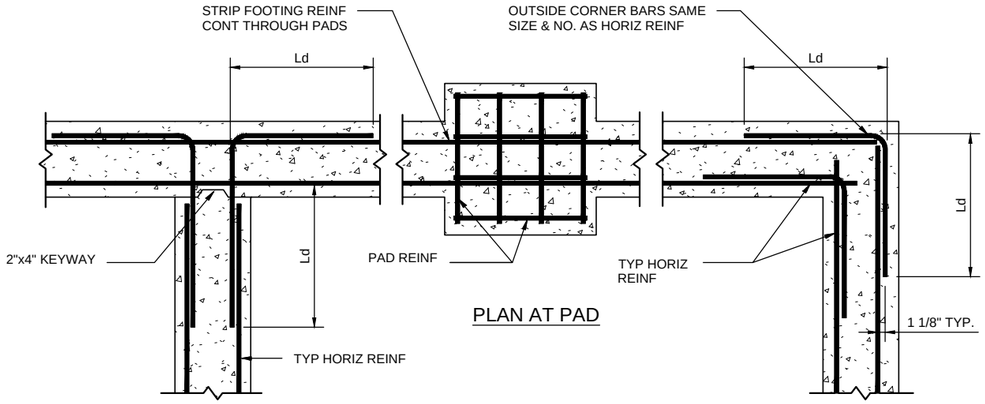
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

FOUNDATION DETAILS

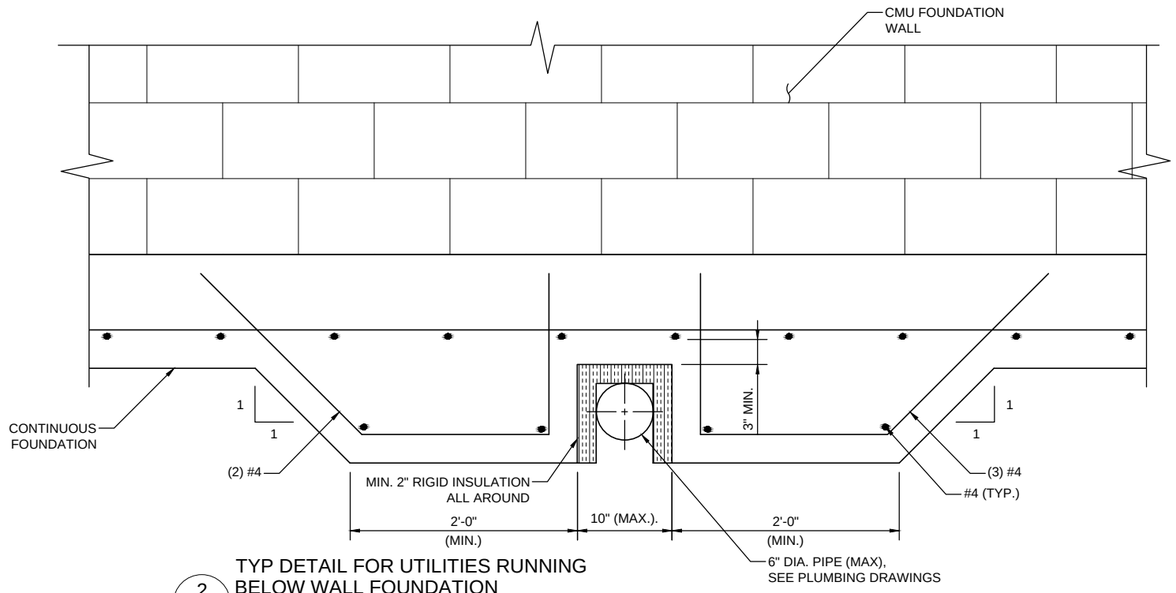
DRAWING NO. S-402

SHEET NO. 15 OF 26



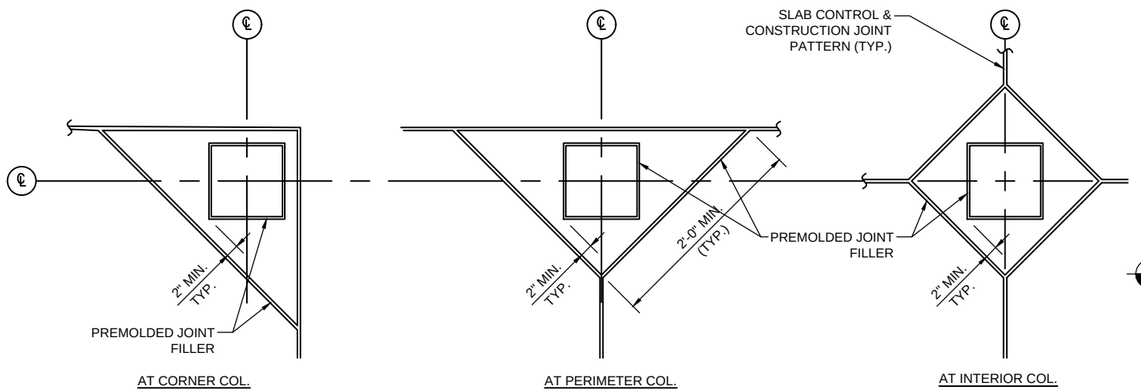
1 S-403 TYP HORIZ. REINF. - CONC FOUNDATIONS

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



2 S-403 TYP DETAIL FOR UTILITIES RUNNING BELOW WALL FOUNDATION

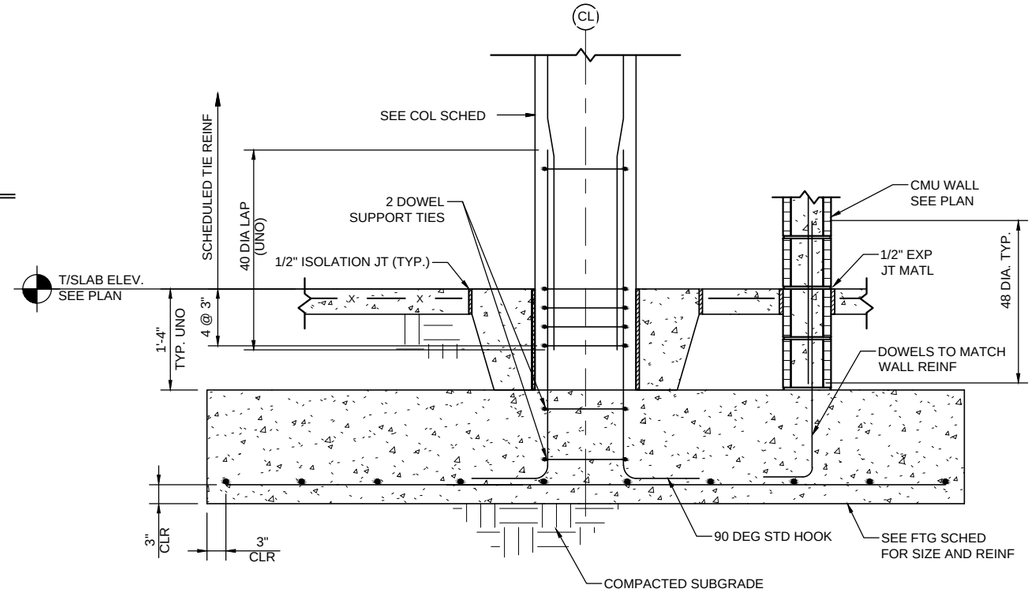
SCALE: 3/4" = 1'-0"



4 S-403 COLUMN/SLAB-ON-GRADE ISOLATION JOINT DETAILS

SCALE: N.T.S.

NOTES:
1. PROVIDE MINIMUM 2" CONCRETE COVER BEYOND COLUMN BASE.
2. SEE SLAB-ON-GRADE JOINT DETAILS FOR ADDITIONAL INFORMATION.



4 S-404 CONCRETE COLUMN ON SPREAD FOOTING

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

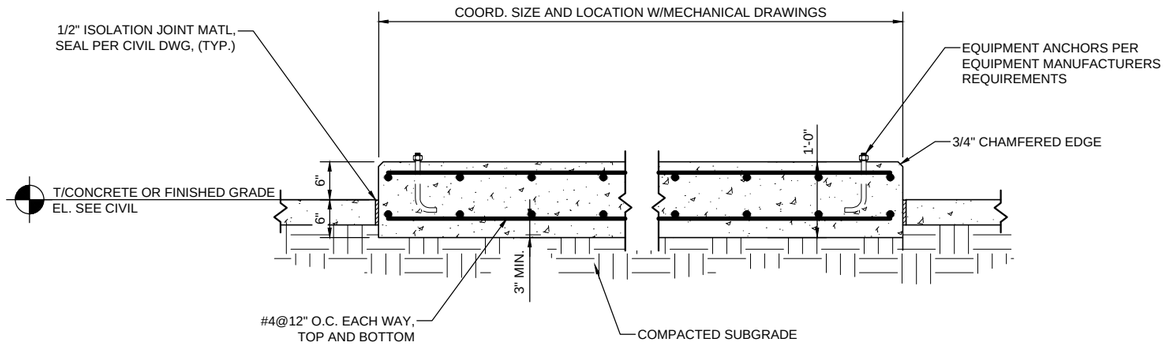
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

FOUNDATION DETAILS

DRAWING NO. S-403

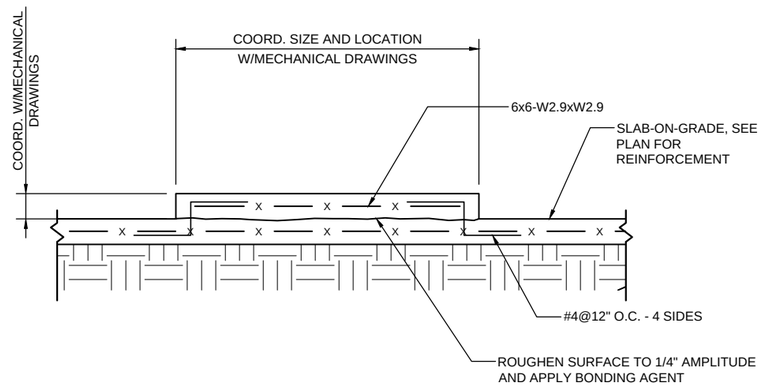
SHEET NO. 16 OF 26



SEE MECH OR ELEC PLANS & SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, PAD SIZE, ACCESSORIES, AND LOCATIONS.

1 S-404 TYP EQUIPMENT PAD - EXTERIOR

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



SEE MECH OR ELEC PLANS & SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, PAD SIZE, ACCESSORIES, AND LOCATIONS.

2 S-404 TYP HOUSEKEEPING PAD - INTERIOR

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

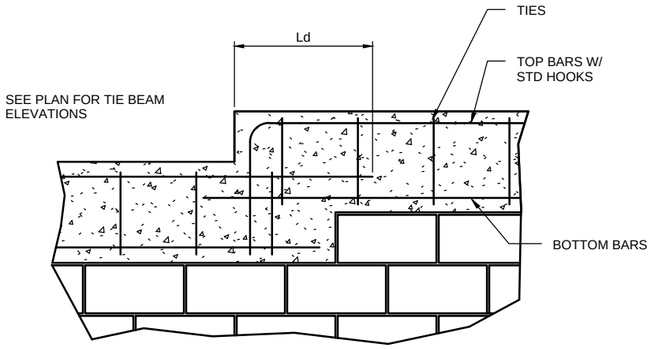
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

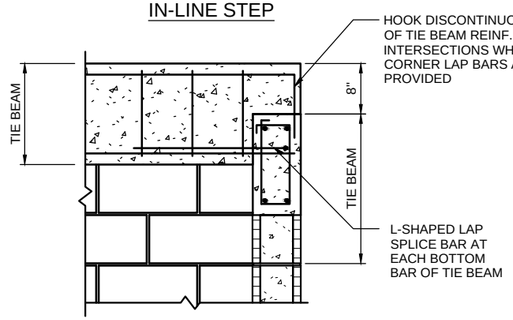
FOUNDATION DETAILS

DRAWING NO. S-404

SHEET NO. 17 OF 26



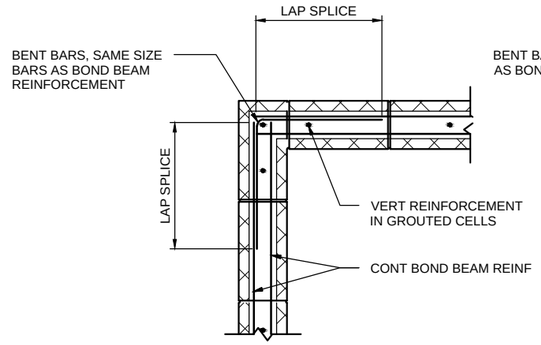
IN-LINE STEP



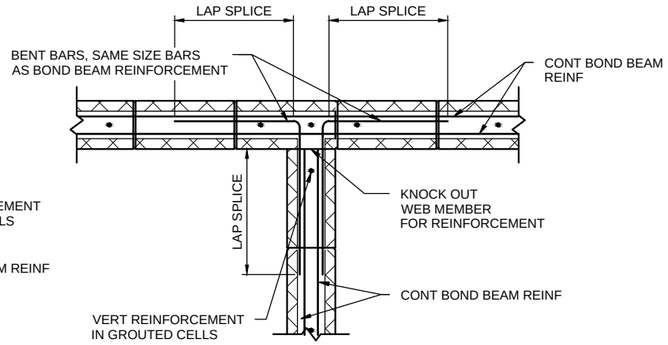
STEP AT BEAM INTERSECTION

1 S-501 TYP STEPPED TIE BEAM DETAIL

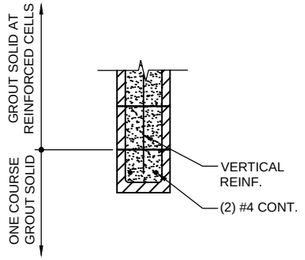
SCALE: 1/2" = 1'-0"



CORNER OF CMU BOND BEAM BLOCKS



INTERSECTION OF CMU BOND BEAM BLOCKS

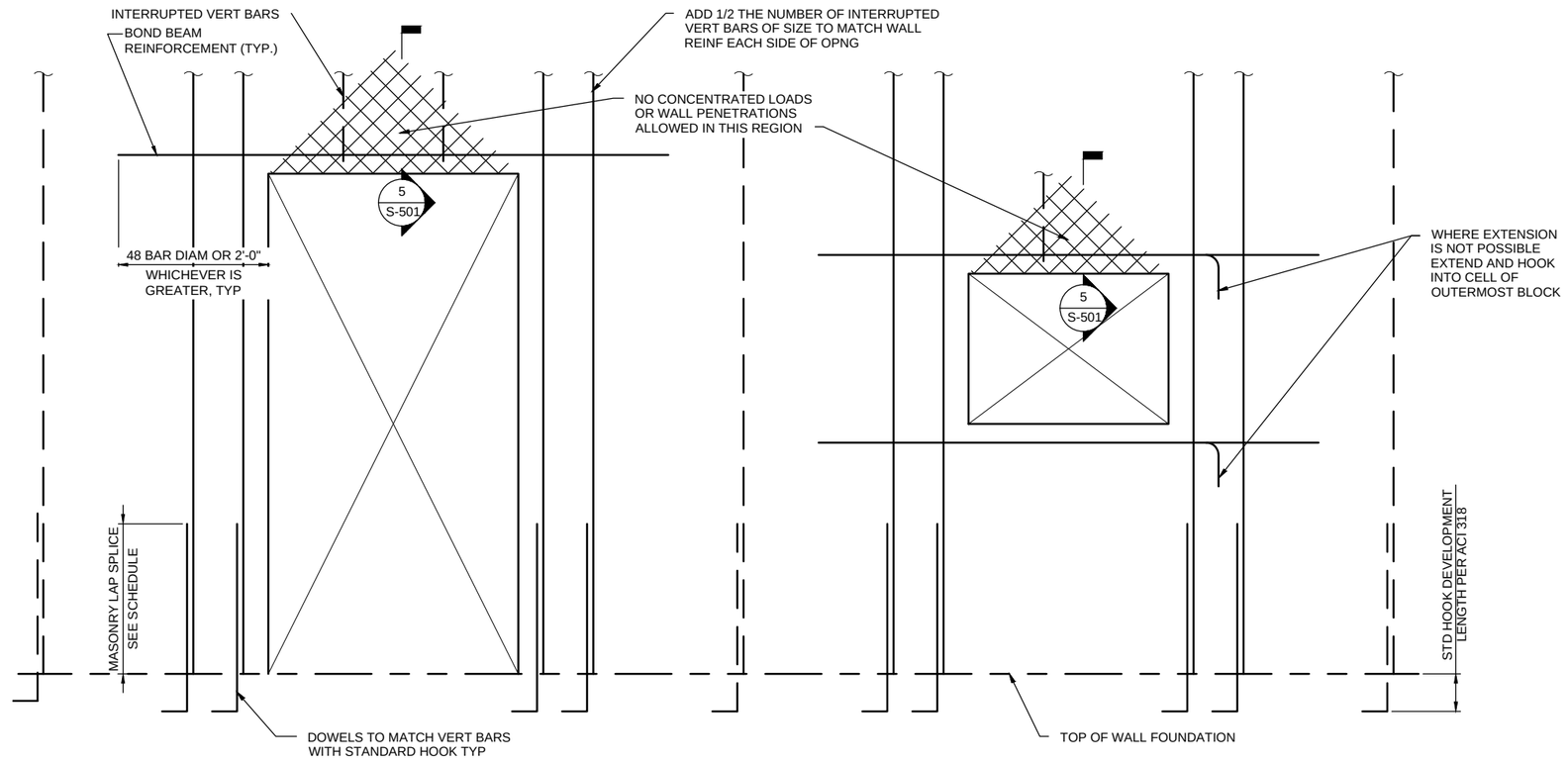


5 S-501 TYPICAL CMU LINTEL

SCALE: N.T.S.

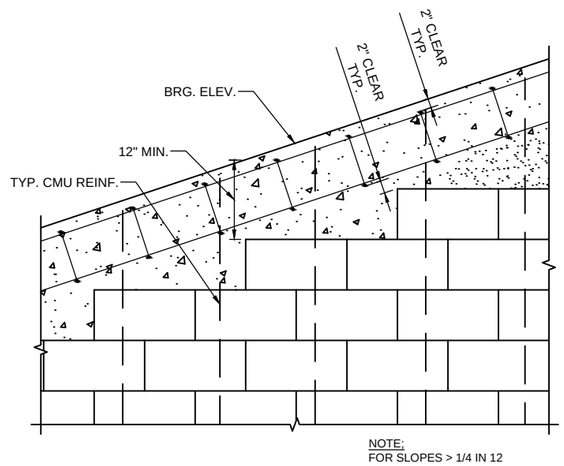
2 S-501 BAR BENDS AT BOND BEAMS

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



3 S-501 CMU OPENING REINFORCING DETAIL

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



NOTE:
FOR SLOPES > 1/4 IN 12

4 S-501 TYP. SLOPED CAST-IN-PLACE BEAM

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

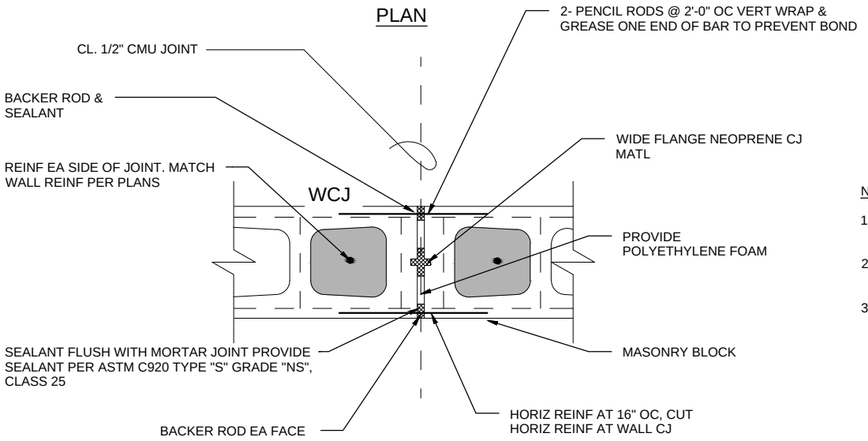
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

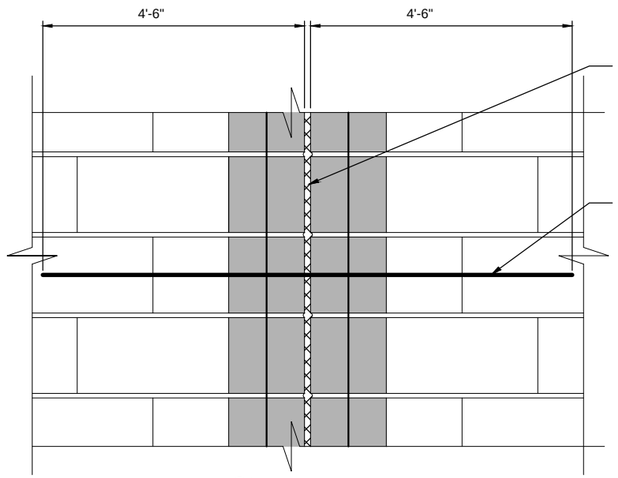
SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

MASONRY DETAILS

DRAWING NO. S-501

SHEET NO. 18 OF 26





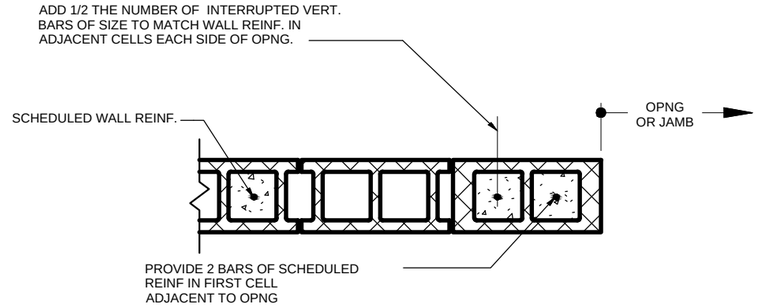
ELEVATION

1 / S-502 MASONRY CONTROL JOINT (MCJ)

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

NOTES:

1. MASONRY CONTROL JOINTS TO BE COORDINATED WITH ARCH ELEVATIONS, PLANS AND SPECIFICATIONS.
2. WALL CONTROL JOINTS SHOULD MATCH LOCATION OF SLAB CONTROL JOINTS. ONLY AS NOTED IN PLAN.
3. CONTROL JOINTS @ MASONRY WALLS SHOULD BE PLACED @ SPACING NOT EXCEEDING 25'-4" OR 3 TIMES THE WALL HEIGHT WHICHEVER IS LESS. MORE SPECIFICALLY WHEN SELECTING A LOCATION IT SHOULD INCLUDE
   A. CHANGES IN WALL HT. OR THICKNESS.
   B. OVER OPNGS @ ONE SIDE PAST THE LINTEL,
   C. AT INTERSECTING WALL.
   D. AT CONSTRUCTION JOINTS IN SLAB.
   E. NOT LESS THAN 2'-0" FROM A BEARING PLATE.
4. G. C. TO PROVIDE SHOP DWG. W/ LOCATIONS OF CONTROL JOINTS & ALL VERT REINF FOR REVIEW BY A/E.



2 / S-502 DETAIL AT JAMB OR OPENING

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

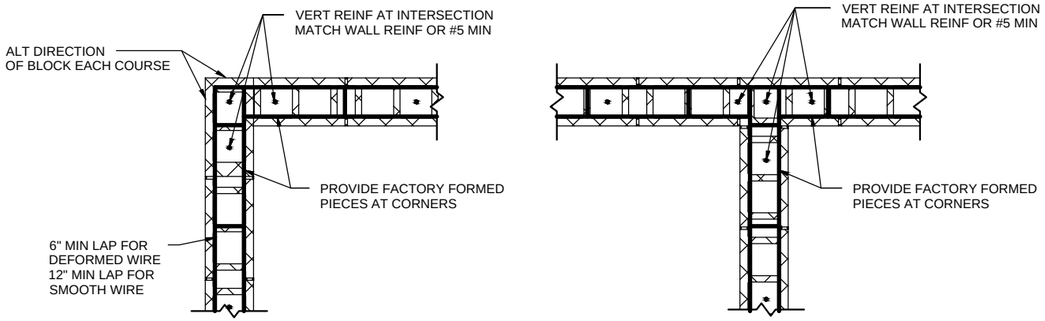
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

MASONRY DETAILS

DRAWING NO. S-502

SHEET NO. 19 OF 26



NOTES:
1. HORIZONTAL DURAWALL JOINT REINFORCEMENT SPACED AT 16" OC UNO.
2. TERMINATE JOINT REINFORCEMENT AT EACH SIDE OF WALL CJ.

CORNER OF MASONRY WALLS

INTERSECTION OF MASONRY WALLS

1 / S-503 HORIZONTAL JOINT REINFORCEMENT DETAIL

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

100% CONSTRUCTION DOCUMENTS

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GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

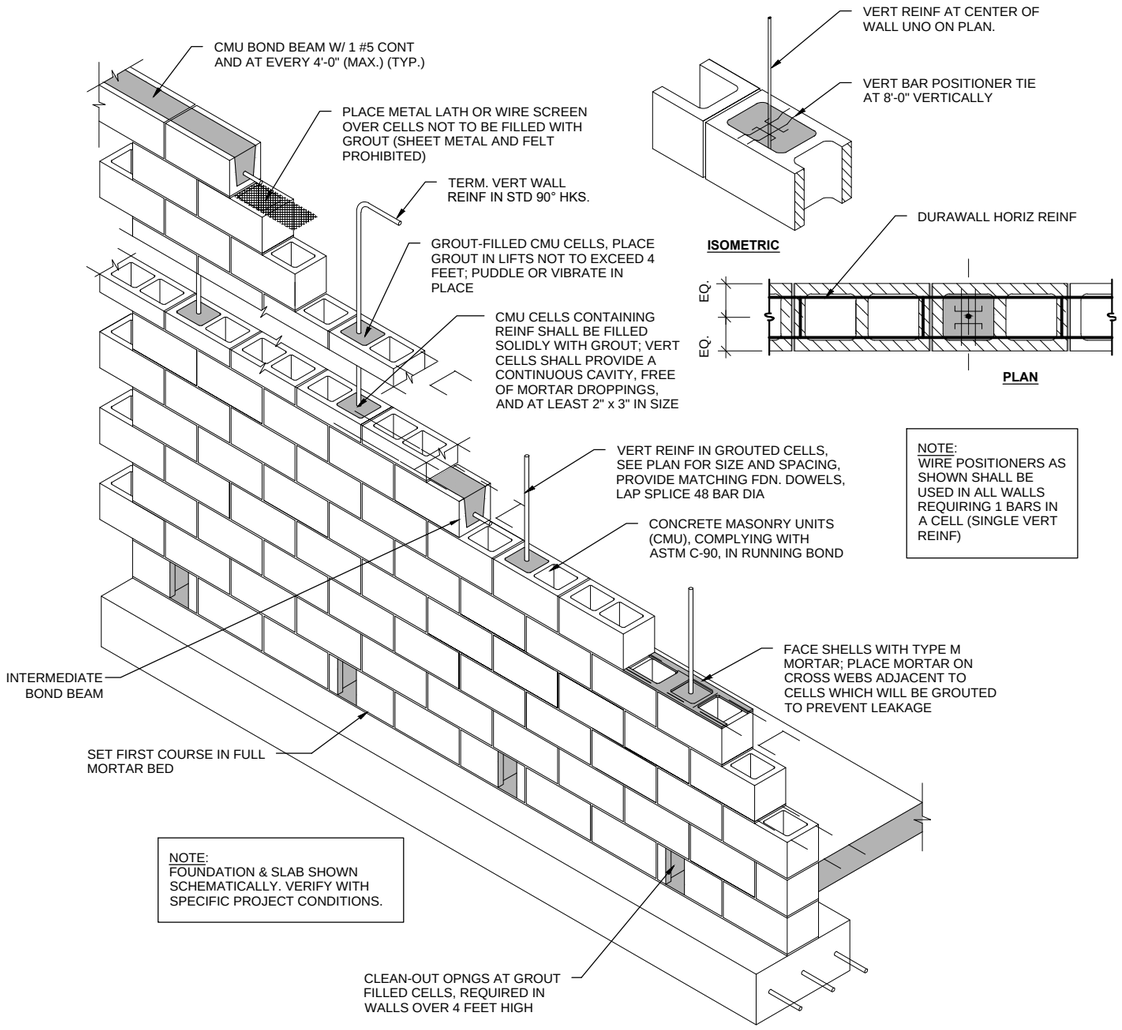
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

MASONRY DETAILS

DRAWING NO. S-503

SHEET NO. 20 OF 26



NOTE:
WIRE POSITIONERS AS SHOWN SHALL BE USED IN ALL WALLS REQUIRING 1 BARS IN A CELL (SINGLE VERT REINF)

NOTE:
FOUNDATION & SLAB SHOWN SCHEMATICALLY. VERIFY WITH SPECIFIC PROJECT CONDITIONS.

1 / S-504 TYP REINF MASONRY WALL CONSTRUCTION

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

NOTE:
SEE ARCH FOR MASONRY WALL INSULATION.

100% CONSTRUCTION DOCUMENTS

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GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

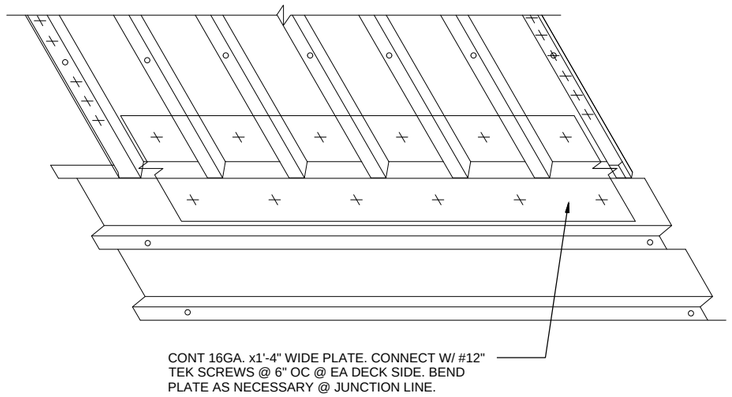
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

MASONRY DETAILS

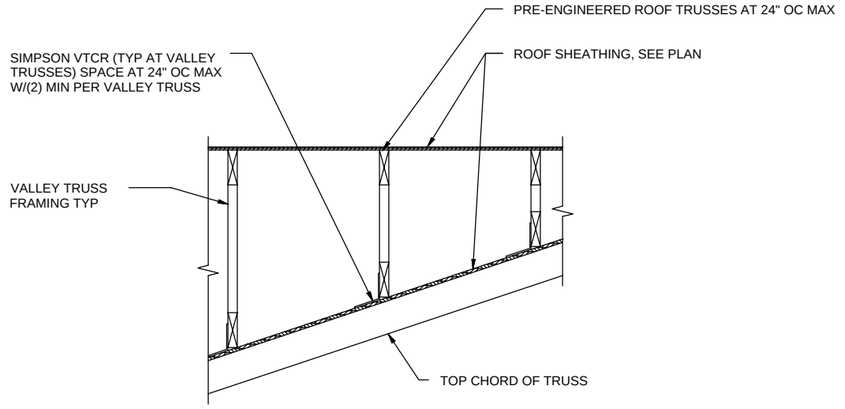
DRAWING NO. S-504

SHEET NO. 21 OF 26



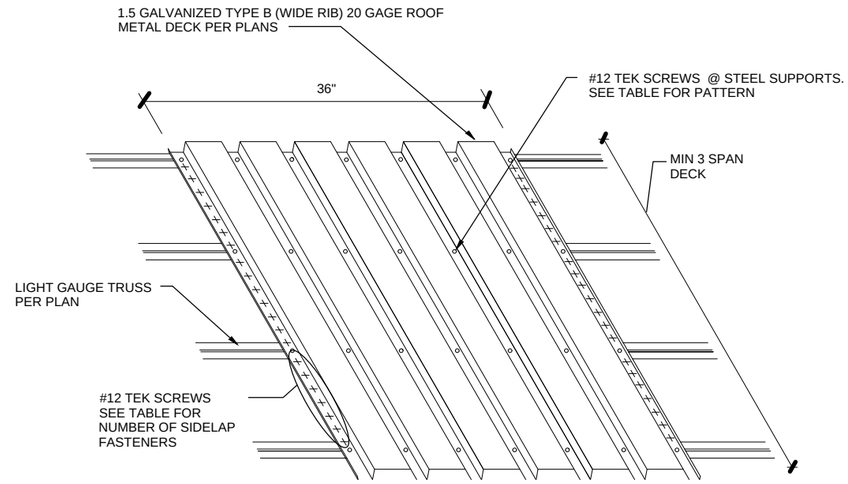
1 S-601 DECKING AT CHANGE OF DIRECTION

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



3 S-601 VALLEY TRUSS DETAIL

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



ROOF LOCATION	FASTENING PATTERN	NO. OF SIDELAP FASTENERS
CNTER BREEZEWAY	36/7	6
LOWER ROOFS	36/5	4

2 S-601 TYP ROOF DECK ATTACHMENT DETAIL

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
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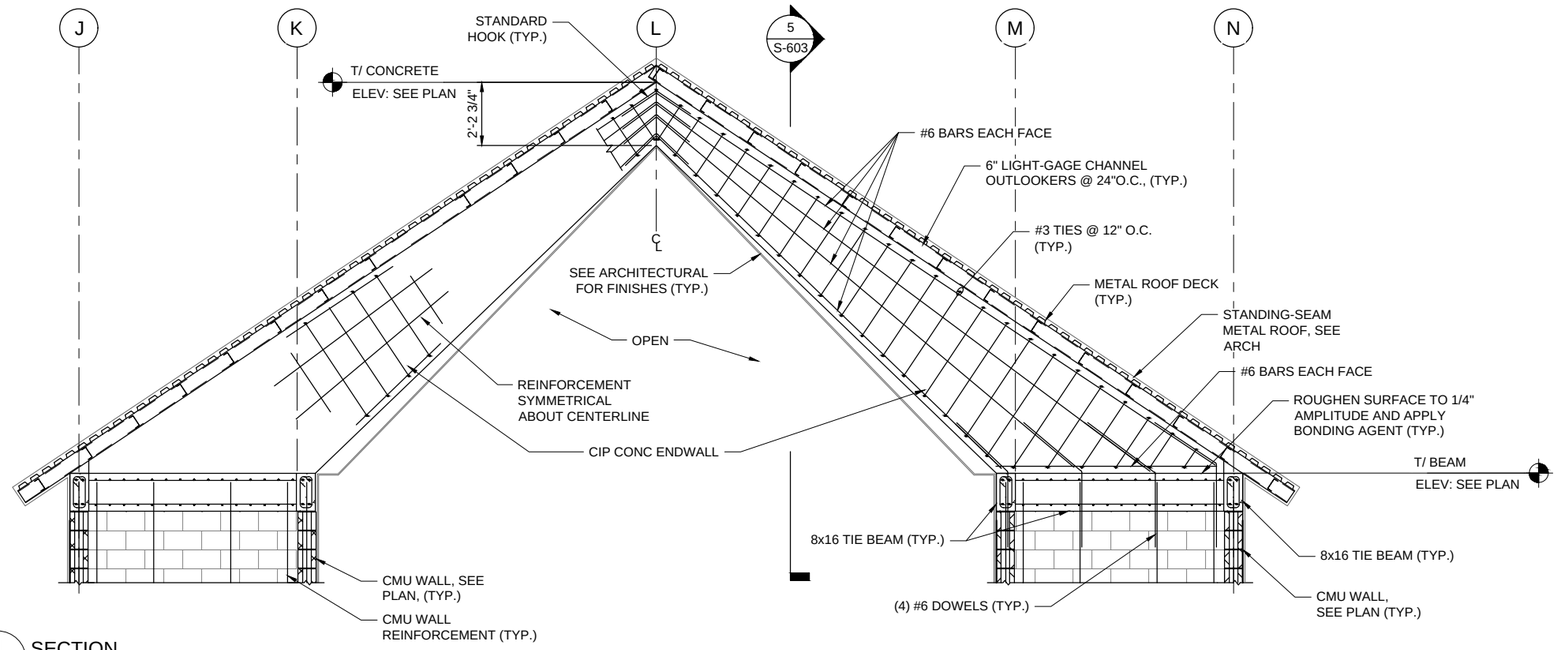
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

DECK DETAILS

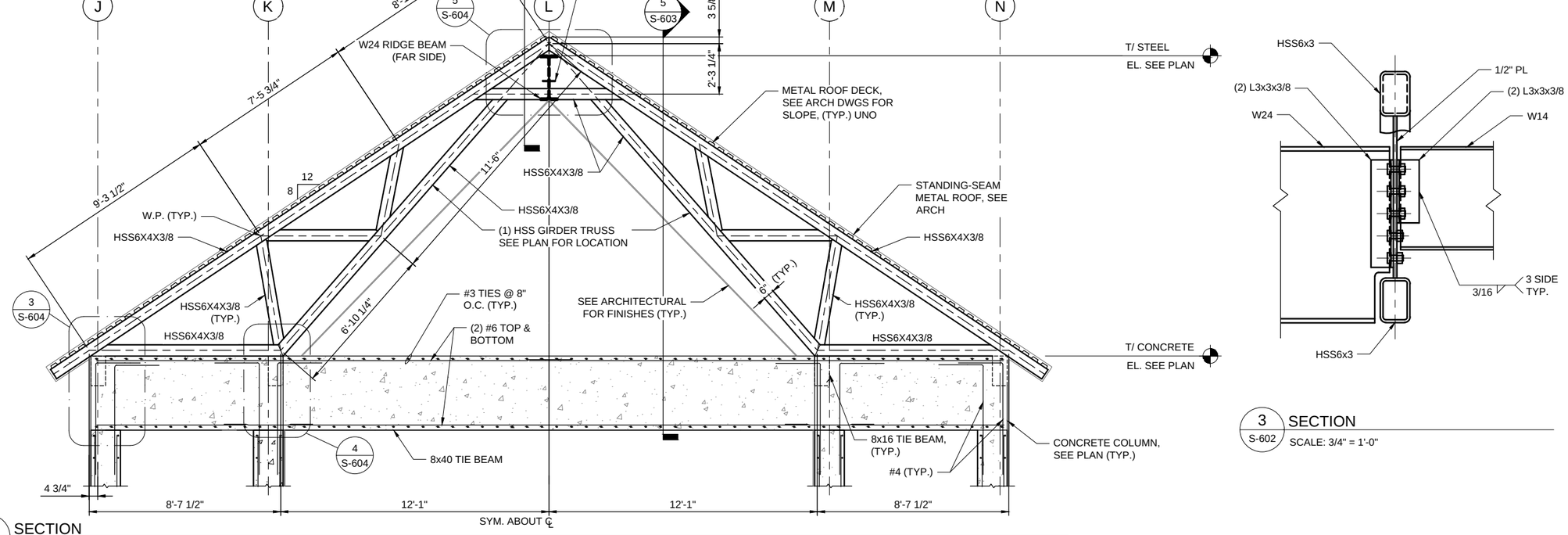
DRAWING NO. S-601

SHEET NO. 22 OF 26



1 S-602 SECTION

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



2 S-602 SECTION

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

3 S-602 SECTION

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA
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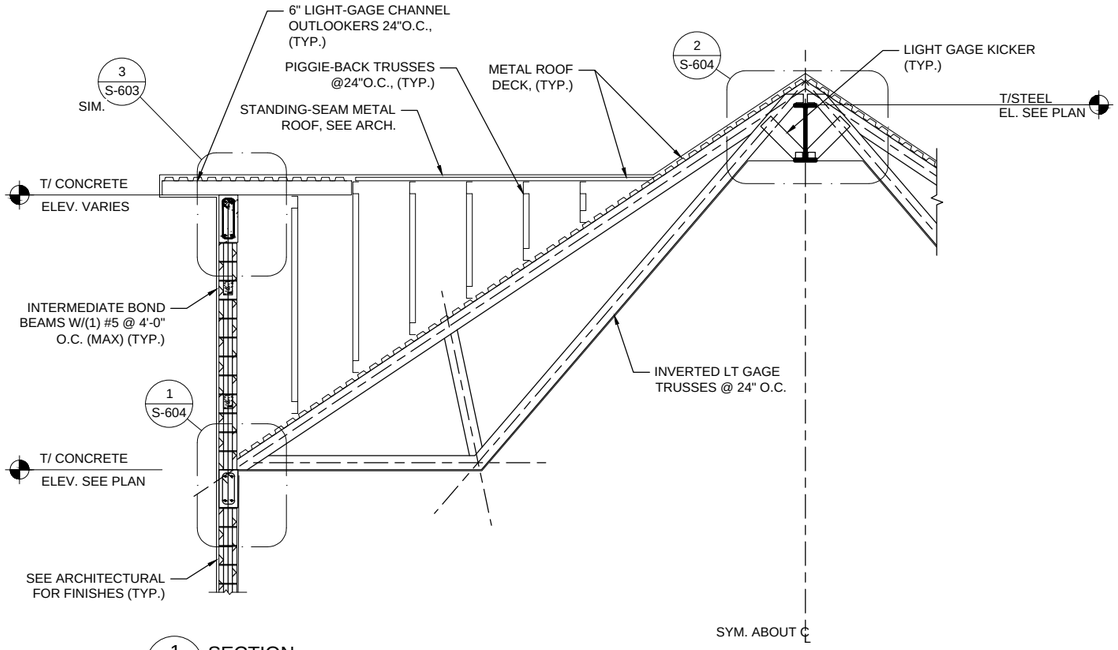
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

ROOF SECTIONS

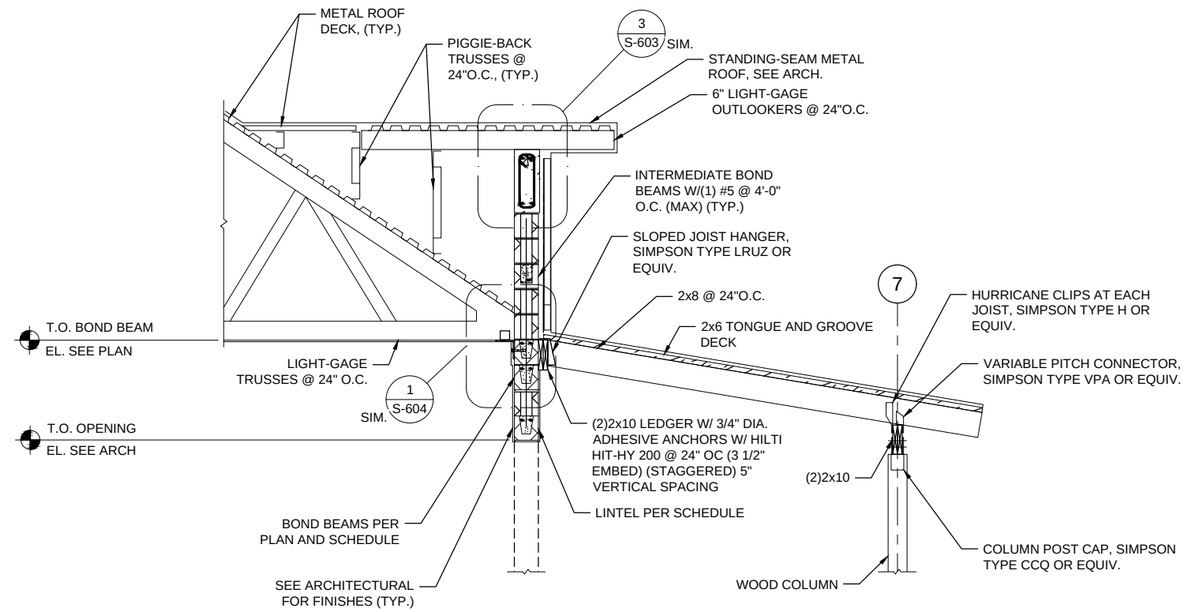
DRAWING NO. S-602

SHEET NO. 23 OF 26



1 S-603 SECTION

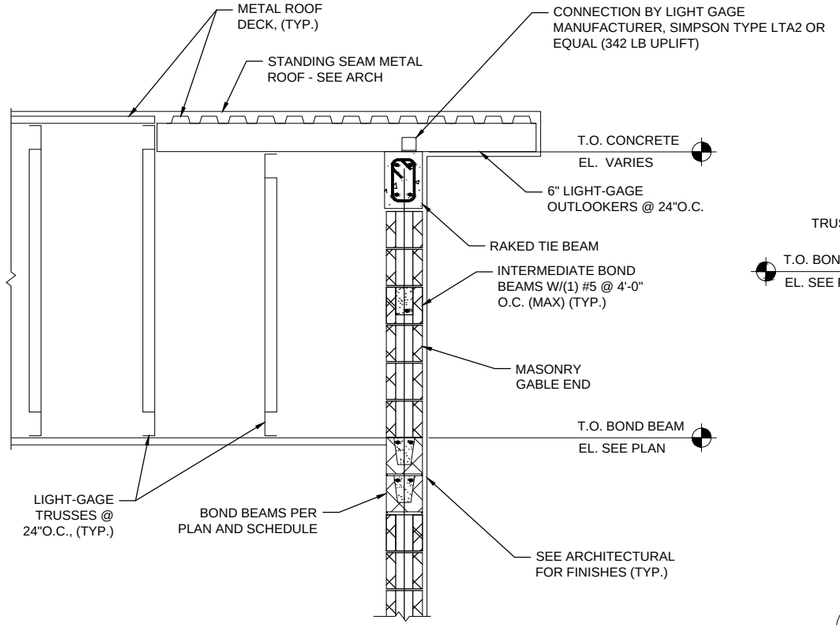
SCALE: 3/16" = 1'-0"



2 S-603 SECTION

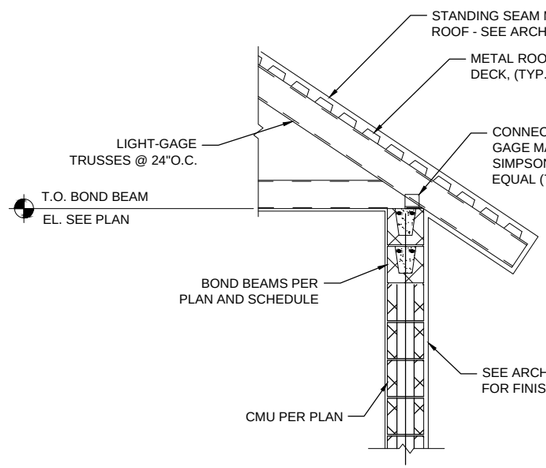
SCALE: 1/4" = 1'-0"

NOTE:
EACH TONGUE AND GROOVE DECK MEMBER SHALL BE TOE-NAILED AT EACH SUPPORT WITH ONE 16D COMMON NAIL THROUGH THE TONGUE AND FACE-NAILED WITH ONE 16D COMMON NAIL.



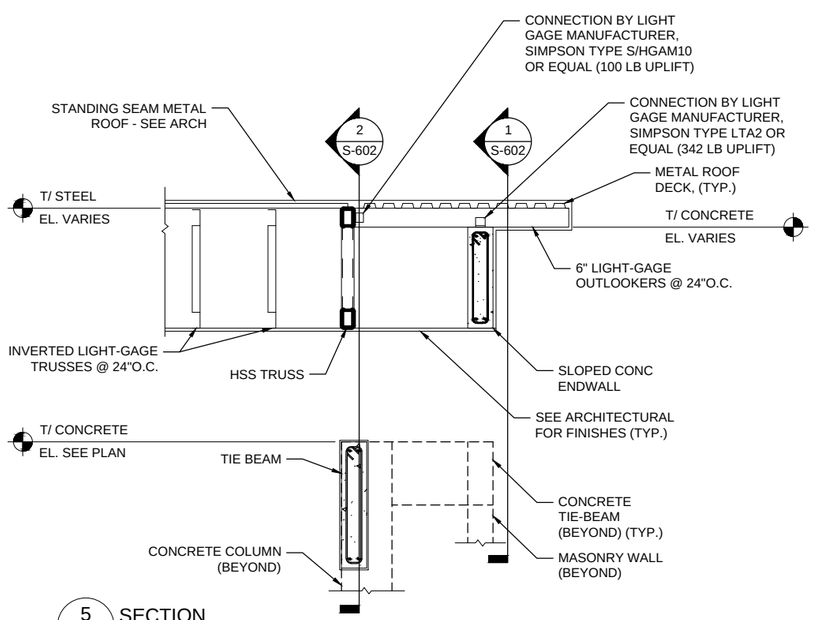
3 S-603 SECTION

SCALE: 3/8" = 1'-0"



4 S-603 SECTION

SCALE: 3/8" = 1'-0"



5 S-603 SECTION

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

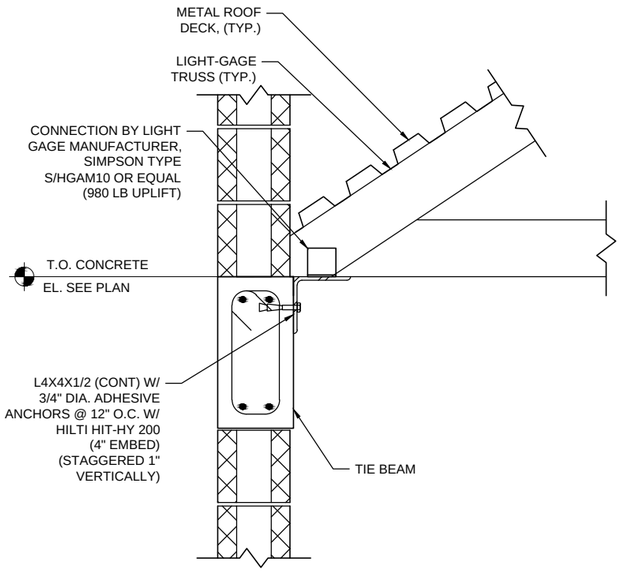
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

ROOF SECTIONS

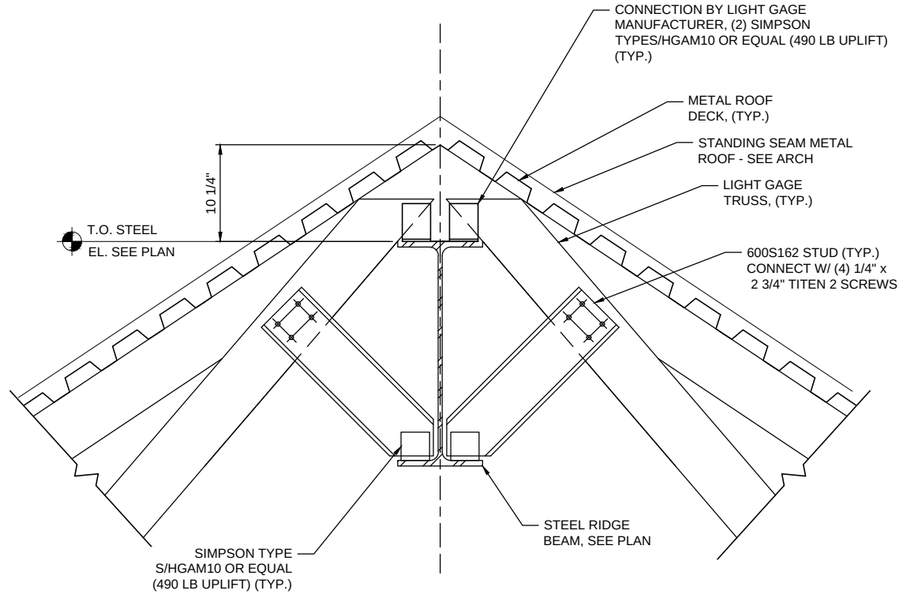
DRAWING NO. S-603

SHEET NO. 24 OF 26



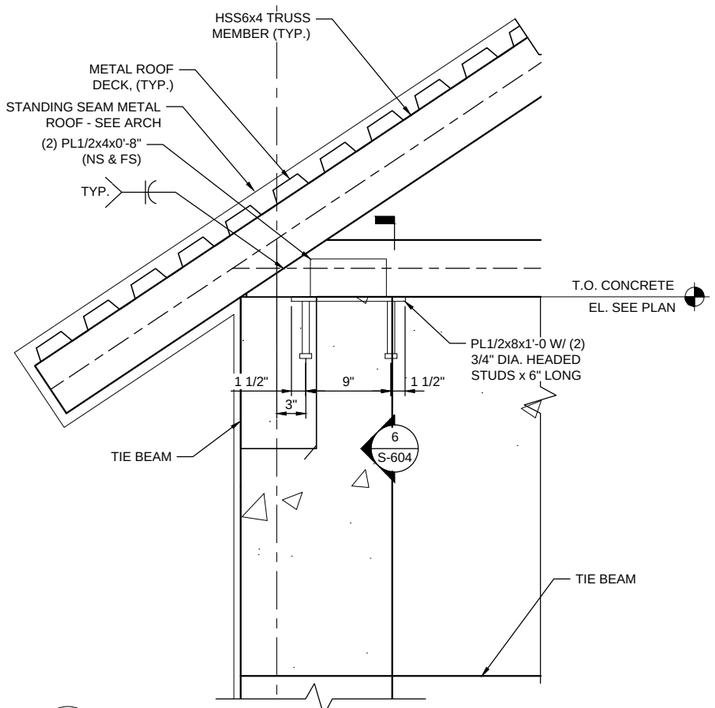
1 S-604 LIGHT GAGE TRUSS CONNECTION DETAIL 1

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



2 S-604 TRUSS CONNECTION DETAIL

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



3 S-604 TRUSS CONNECTION DETAIL 3

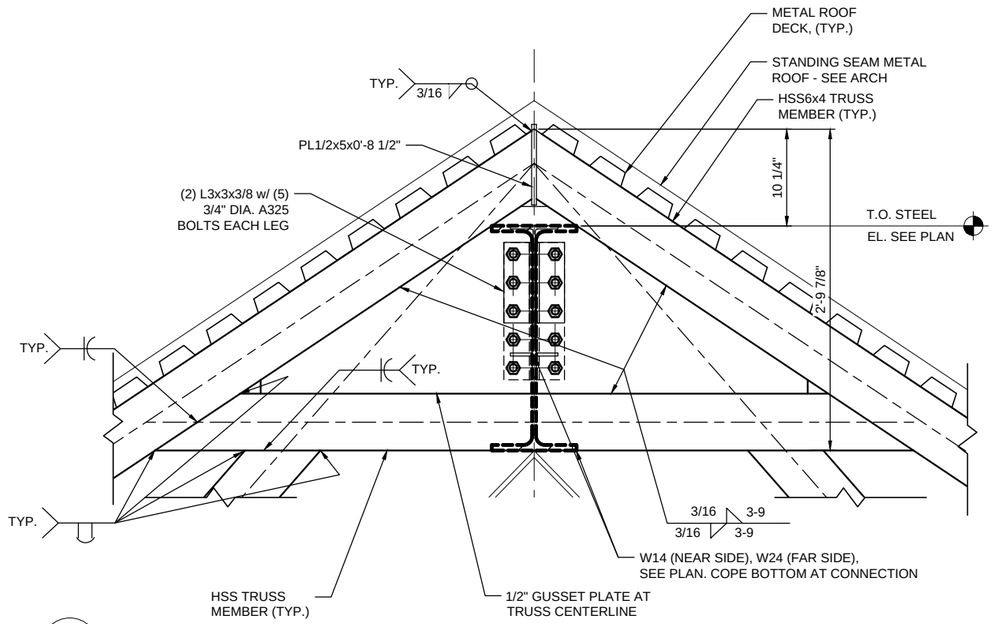
SCALE: 3/4" = 1'-0"

4 S-604 TRUSS CONNECTION DETAIL 4

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

6 S-604 SECTION

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



5 S-604 TRUSS CONNECTION DETAIL

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

100% CONSTRUCTION DOCUMENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

GAI CONSULTANTS, INC.
600 CRANBERRY WOODS DRIVE, SUITE 400,
CRANBERRY TOWNSHIP, PA 16066

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

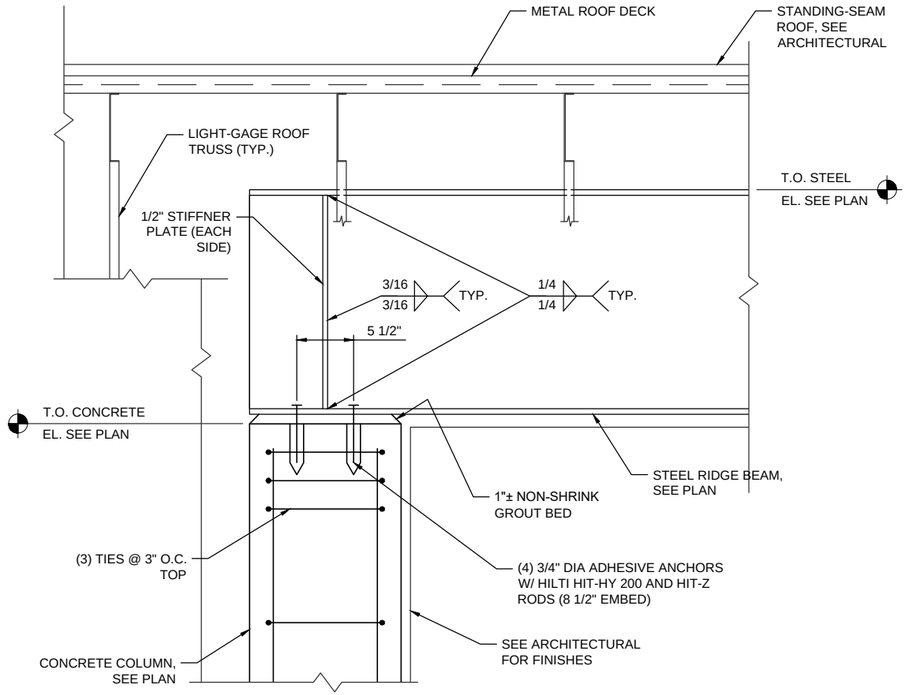
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 8	COLUMBIA	438609-1-52-01

SR-8 (I-10) WESTBOUND (COLUMBIA COUNTY) REST AREAS

ROOF SECTIONS AND DETAILS

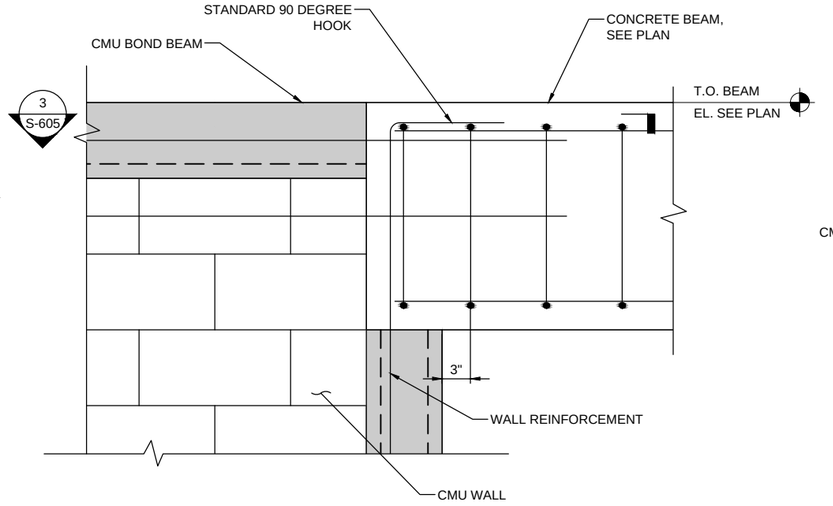
DRAWING NO. S-604

SHEET NO. 25 OF 26



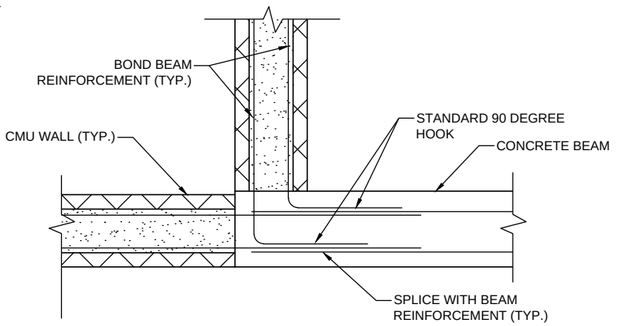
1 S-605 RIDGE BEAM CONNECTION DETAIL

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



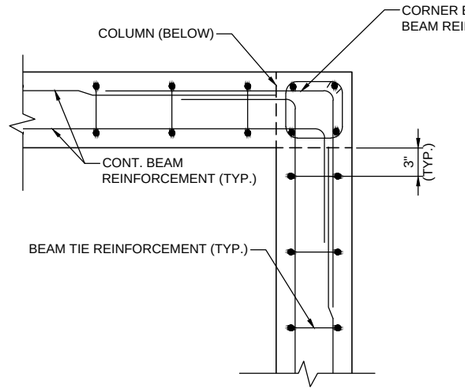
2 S-605 CONCRETE BEAM BEARING ON CMU WALL

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



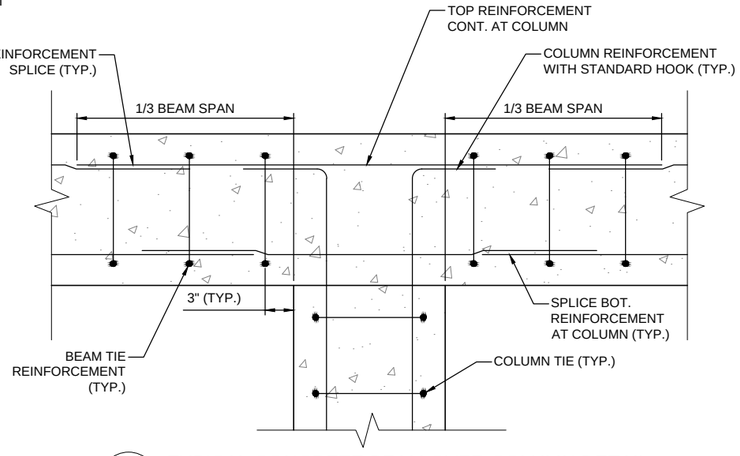
3 S-605 CMU BLOCK WALL TO CONCRETE BEAM REINFORCEMENT

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



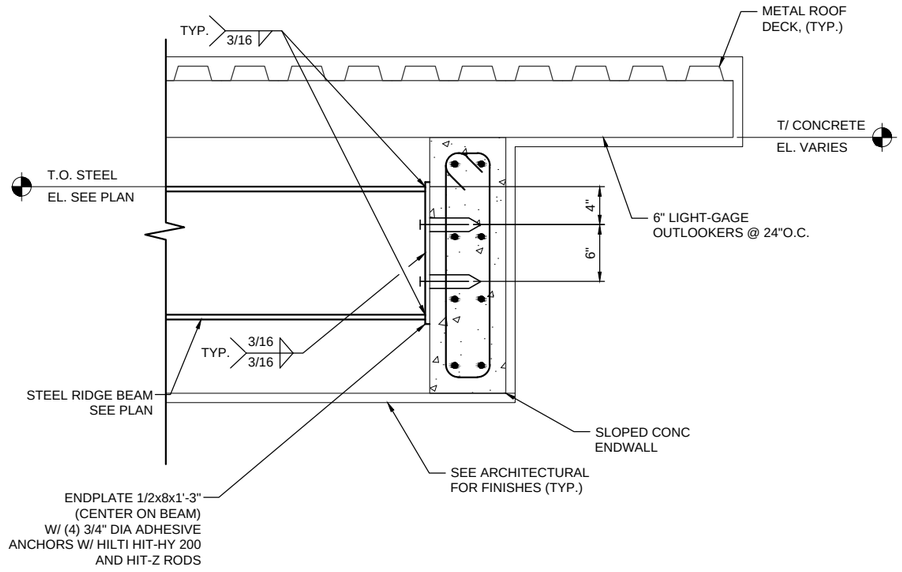
4 S-605 TYPICAL CONCRETE BEAM CORNER REINFORCEMENT

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



5 S-605 TYPICAL CONCRETE BEAM OVER COLUMN DETAIL

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



6 S-605 RIDGE BEAM CONNECTION DETAIL

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

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SR 8	COLUMBIA	438609-1-52-01

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ROOF SECTIONS AND DETAILS

DRAWING NO. S-605

SHEET NO. 26 OF 26