GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, SC

Issue Date/ Description: 2016.06.01 BID SET
MPS Project No: 015292.00

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DRAWING LIST

SHEET NO	SHEET NAME
General	
G0.01	COVER SHEET
G1.11	LIFE SAFETY PLAN
Civil	
C001	TITLE SHEET
C002	EXISTING CONDITIONS & DEMOLITION PLAN
C101	SITE PLAN
C201	GRADING & DRAINAGE PLAN
C202	EROSION CONTROL PLAN
C301	UTILITY PLAN
C401	OVERFLOW PARKING AREA PLAN
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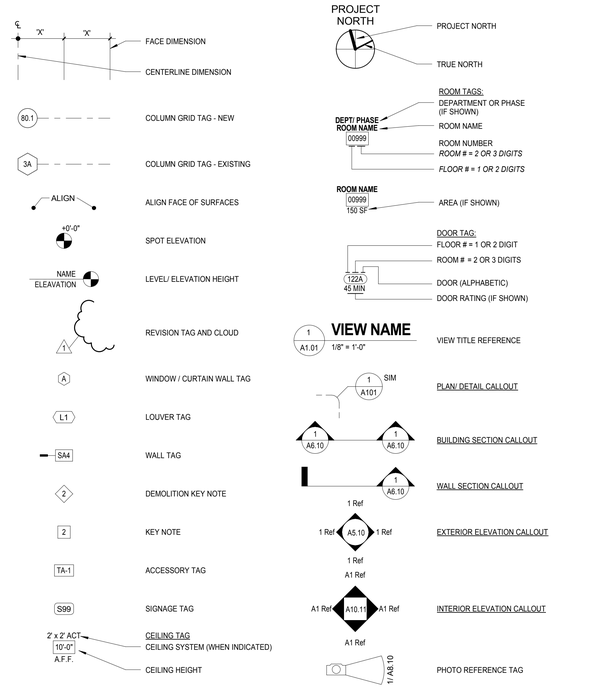

STANDARD GRAPHICS AND SYMBOLS

1. ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE APPLICABLE CODES, AS INDICATED ON THIS SHEET AND ALL OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS HAVING JURISDICTION.
2. ALL CONSTRUCTION SHALL BE HANDICAPPED ACCESSIBLE AND COMPLY WITH BARRIER FREE DESIGN AND OTHER APPLICABLE STANDARDS.
3. DIMENSIONS SHOWN FOR EXTERIOR DOORS AND WINDOWS ARE TO EDGE OF FRAME UNLESS OTHERWISE NOTED.
4. PROVIDE FIRE EXTINGUISHERS IN ACCORDANCE W/ NFPA 10. INSTALL WALL MOUNTED FIRE EXTINGUISHERS (FE) AT 4'-0" AFF TO TOP OF CABINET. GENERAL CONTRACTOR TO COORDINATE LOCATIONS WITH LOCAL FIRE MARSHALL.
5. HORIZONTALLY BRACE (STIFFEN) ALL METAL STUD SYSTEMS AS RECOMMENDED AND BRACE TOPS OF ALL PARTITIONS TO STRUCTURE ABOVE.
6. THE GENERAL CONTRACTOR SHALL PROVIDE CONTROL JOINTS (CJ) IN ALL MASONRY WALLS AS SHOWN IN THE DRAWINGS, BUT NOT TO EXCEED 30'-0" LINEAR BETWEEN JOINTS. THE CONTROL JOINT SHALL CONTINUE UP FULL HEIGHT OF WALL. COLORS OF SOFT JOINT SEALANT SHALL MATCH THAT OF THE WALL CONSTRUCTION MATERIAL. THE GENERAL CONTRACTOR SHALL COORDINATE THE CONTROL JOINT QUANTITY, SPACING AND LOCATIONS WITH THE ARCHITECT PRIOR TO CONSTRUCTION.
7. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH THE WORK.
8. IN THE EVENT OF ANY DISCREPANCIES FOUND IN THE DRAWINGS OR CONFLICTS BETWEEN THE ARCHITECTURAL DRAWINGS AND THOSE OF THE ENGINEERS, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
9. ALL WOOD BLOCKING TO BE FIRE RETARDANT TREATED IF REQUIRED BY CODE. ALL WOOD IN CONTACT WITH MORTAR, CONCRETE, OR MASONRY TO BE PRESSURE TREATED.
10. ALL WORK LISTED, SHOWN OR IMPLIED ON THE CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR EXCEPT WHERE OTHERWISE NOTED. THE GENERAL CONTRACTOR SHALL CLOSELY COORDINATED HIS WORK WITH THAT OF OTHER CONTRACTORS OR VENDORS TO ASSURE THAT ALL SCHEDULES ARE MET AND THAT ALL WORK IS DONE IN CONFORMANCE TO THE SUPPLIERS REQUIREMENTS.
11. ALL INTERIOR DIMENSIONS GIVEN ARE FROM FACE OF STUD. OR CENTERLINE OF COLUMN, UNLESS OTHERWISE NOTED. EXTERIOR DIMENSIONS ARE FROM FACE/ EDGE OF MASONRY/ CONCRETE OR COLUMN CENTERLINE. UNLESS OTHERWISE NOTED.
12. ALL NEW ROOF WORK TO BE PERFORMED BY LANDLORD'S ROOFING CONTRACTOR SO AS NOT TO VOID MANUFACTURER'S WARRANTY.

GENERAL NOTES

VICINITY MAP

SITE MAP

ABBREVIATION NOTES:

1. ABBREVIATIONS LISTED BELOW APPLY TO THE ARCHITECTURAL DRAWINGS ONLY, REFER TO DRAWINGS BY OTHER TRADES FOR ABBREVIATIONS USED ON OTHER TRADES DRAWINGS.
2. REFER TO FINISH SCHEDULE FOR MATERIAL ABBREVIATIONS USED ON THE FINISH SCHEDULE.

ACT	ACOUSTICAL CEILING TILE	FE	FIRE EXTINGUISHER	OPH	OPPOSITE HAND
ADJ	ADJACENT or ADJUSTABLE	FEC	FIRE EXTINGUISHER CABINET	OPP	OPPOSITE
AFF	ABOVE FINISHED FLOOR	FIN GR	FINISH GRADE	P	PAINT
AFG	ABOVE FINISHED GRADE	FOF	FACE OF FINISH	PERF	PERFORATED
ALUM	ALUMINUM	FOM	FACE OF MASONRY	PERP	PERPENDICULAR
BATT	BATTING	FOS	FACE OF STUD	PL	PLATE
BD	BOARD	FOW	FACE OF WALL	PLAM	PLASTIC LAMINATE
BLDG	BUILDING	GA	GAUGE	PLYWD	PLYWOOD
BFF	BELOW FINISH FLOOR	GALV	GALVANIZED	PREFAB	PREFABRICATE
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	GC	GENERAL CONTRACTOR	PREFIN	PREFINISH
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	GL	GLASS	PT	PRESSURE TREATED
CJ	CONSTRUCTION JOINT/ CONTROL JOINT	GLZ	GLAZING	R	RADIUS
CL	CENTER LINE	GWB	GYPSUM WALL BOARD	REINF	REINFORCE
CLG	CEILING	HB	HOSE BIBB	RVL	REVEAL
CLR	CLEAR	HC	HOLLOW CORE	SAB	SOUND ATTENUATION BLANKETS
CMU	CONCRETE MASONRY UNIT	HCP	HANDICAPPED	SAPC	SUSPENDED ACOUSTICAL PLASTER CEILING
CO	CLEANOUT	HCWD	HOLLOW CORE WOOD DOOR	SATC	SUSPENDED ACOUSTICAL TILE CEILING
COL	COLUMN	HDW	HARDWARE	SIM	SIMILAR
CONC	CONCRETE	HDWD	HARDWOOD	SPEC	SPECIFICATION(S)
COORD	COORDINATE	HM	HOLLOW METAL	STL	STEEL
CORR	CORRIDOR	INSUL	INSULATION	STOR	STORAGE
CPT	CARPET	KD	KNOCKED DOWN	TEMP	TEMPORARY
DEMO	DEMOLITION	KIT	KITCHEN	TO	TOP OF
DIA	DIAMETER	KPL	KICKPLATE	TOM	TOP OF MASONRY
DRWGS	DRAWINGS	LB	POUND(S)	TOP	TOP OF PARAPET
DS	DOWNSPOUT	LF	LINEAR FEET (FOOT)	TOS	TOP OF SLAB; TOP OF STEEL
DSP	DRY STANDPIPE	MECH	MECHANICAL	TOW	TOP OF WALL
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	MEZZ	MEZZANINE	TYP	TYPICAL
EJ	EXPANSION JOINT	MIN	MINIMUM	UNO	UNLESS NOTED OTHERWISE
ELEC	ELECTRIC	MISC	MISCELLANEOUS	VERT	VERTICAL
ELEV	ELEVATOR OR ELEVATION	MO	MASONRY OPENING	VIF	VERIFY IN FIELD
EOS	EDGE OF SLAB	MTL	METAL	V.J	V JOINT
EQ	EQUAL	NA	NOT APPLICABLE	VNR	VENEER
EQUIP	EQUIPMENT	NIC	NOT IN CONTRACT	W/	WITH
EWH	ELECTRIC WATER HEATER	NLB	NONLOADBEARING	W/O	WITHOUT
EXIST	EXISTING	NTP	NOTICE TO PROCEED	WD	WOOD
FD	FLOOR DRAIN	OC	ON CENTER	WH	WATER HEATER
FDC	FIRE DEPARTMENT CONNECTION	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED	WSCT	WAINSCOT
		OF/OI	OWNER FURNISHED/OWNER INSTALLED	WWM	WELDED WIRE MESH

ABBREVIATION LIST

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STATE OF SOUTH CAROLINA — McMILLAN PAZDAN SMITH, LLC — GREENVILLE, SC — 100573 — REGISTERED ARCHITECTS

GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	2016.06.01	BID SET	BC

BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

SHEET TITLE:
COVER SHEET

SHEET NO. G0.01

PROJ. NO. 015292.00

FIRE RATING AND FIRE PROOFING NOTES:
1. SEE FLOOR PLAN(S) AND WALL TYPE SCHEDULE FOR WALL ASSEMBLY TYPES AND CONSTRUCTION

2. FIRE CAULK AROUND ALL ELECTRICAL CONDUIT PASSING THROUGH WALLS.

3. SEE MECHANICAL AND PLUMBING DRAWINGS FOR SPECIAL DETAILS WHERE DUCTWORK AND PIPING PASS THROUGH WALLS.

RATED - 1 HOUR

RATED SMOKE - 1 HOUR

EGRESS PATH OF TRAVEL

SMOKE COMPARTMENT PATH OF TRAVEL

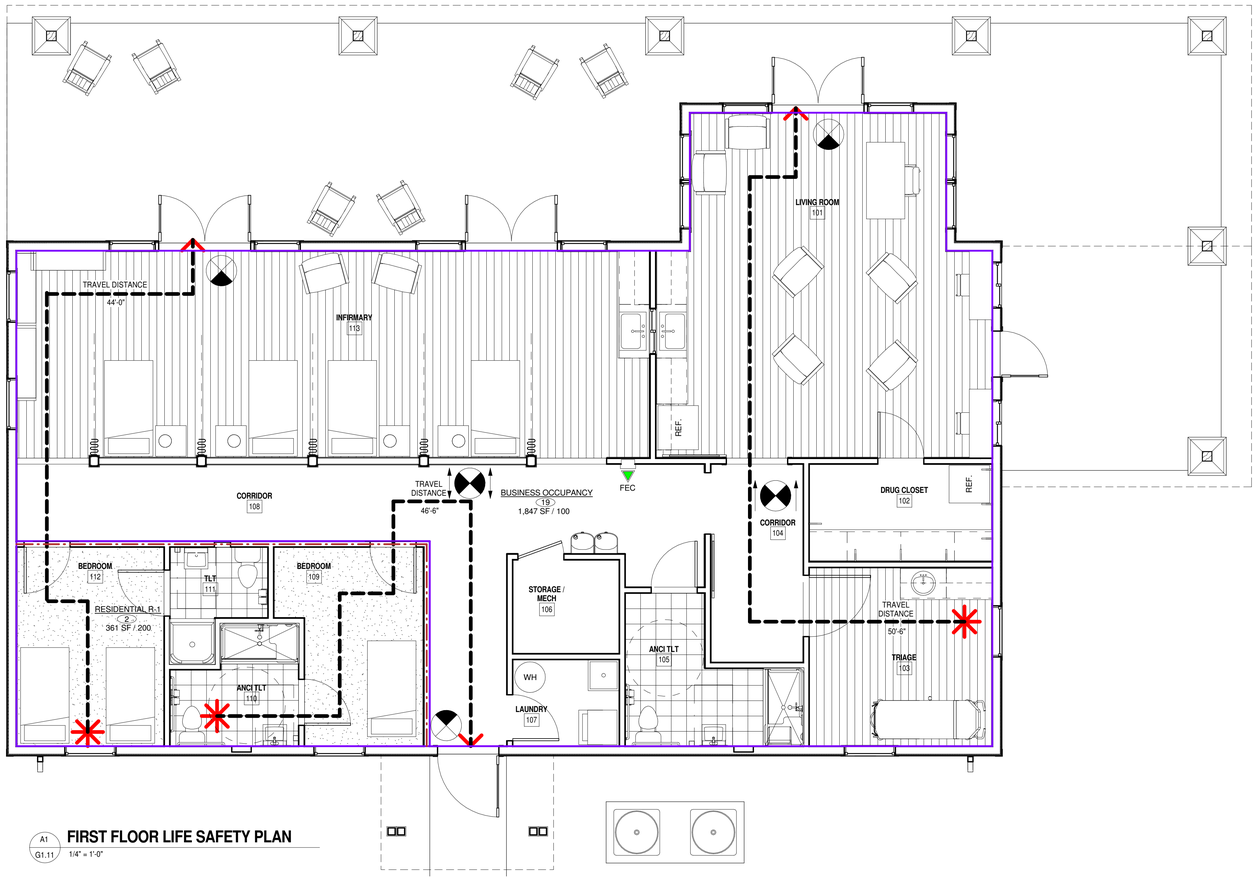
FE — BRACKET MOUNTED FIRE EXTINGUISHER

FEC — RECESSED OR SEMI-RECESSED FIRE EXTINGUISHER CABINET

CEILING MOUNTED EXIT SIGN (ARROWS WHEN INDICATED)

WALL MOUNTED EXIT SIGN (ARROWS WHEN INDICATED)

LIFE SAFETY LEGEND



A1 / G1.11 **FIRST FLOOR LIFE SAFETY PLAN**
1/4" = 1'-0"

CODE SUMMARY

JOB NAME: DR. CARY E. STROUD CAMPER CARE CENTER
MPS JOB NUMBER: 015292.00
JOB LOCATION: 4232 HIGHWAY 11, MARIETTA, SC 29661

APPLICABLE CODES :

2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL FIRE PREVENTION CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL FUEL GAS CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE
2011 NATIONAL ELECTRICAL CODE-NFPA 70
2009 ICC/ANSI A117.1

TOTAL GROSS BUILDING AREA : 2,315 SF

OCCUPANCY CLASSIFICATION :
CLINIC, OUTPATIENT - GROUP B 1, 847 SF
RESIDENTIAL - GROUP R-1 361 SF
2,208 SF

CONSTRUCTION TYPE : TYPE V-B, UNPROTECTED FULLY SPRINKLERED WITH NFPA-13 SYSTEM.

ALLOWABLE AREA :
BUSINESS ALLOWABLE 9,000 SF
RESIDENTIAL ALLOWABLE 7,000 SF

MAXIMUM NUMBER OF STORIES ALLOWED: 2 STORIES ALLOWED (TABLE 503), 1 STORY PROVIDED

MAXIMUM HEIGHT ALLOWED: 40'-0"

ACTUAL BUILDING HEIGHT TO TOP OF ROOF : 1 STORY
+/- 20'-0" TO TOP OF HIGHEST RIDGE

OCCUPANT LOAD CALCULATIONS PER AREA (TABLE 1004.1.2) OCCUPANCY FOR EXITING

USE	AREA	AREA PER PERSON	OCCUPANCY LOAD
BUSINESS OCCUPANCY - B	1,847 SF	100 GROSS	19 PERSONS
RESIDENTIAL OCCUPANCY - R-1	361 SF	200 GROSS	2 PERSONS
TOTAL	**2,208 SF**		**21 PERSONS**

FIRE RESISTANCE RATINGS - CONSTRUCTION TYPE V-B, FULLY SPRINKLERED

	HOURLY RATING
EXTERIOR BEARING WALLS >30	0 HOUR
EXTERIOR NON-BEARING WALLS >30	0 HOUR
INTERIOR BEARING/NON-BEARING WALLS	0 HOUR
CORRIDOR WALLS (TABLE 1017.1)	0 HOUR
FLOORS/BEAMS/COLUMNS	0 HOUR
ROOF	0 HOUR
INCIDENTAL USE	0 HOUR
CEILINGS	1 HOUR IN ROOMS 109,110,111 AND 112 - UL PS22
OCCUPANCY SEPARATION	1 HOUR - UL U305

EXIT WIDTH CALCULATIONS (TABLE 1005.1):

ONE STORY
REQUIRED:
.15" x 74 = 11.1"
PROVIDED:
216" PROVIDED IN 5 TOTAL EXITS

MAXIMUM AREA OF EXTERIOR WALL OPENINGS (TABLE 602, 705.8) :
FIRE SEPARATION DISTANCE: X > 30' @ VB = 0
GREATER THAN 30 FEET = UNPROTECTED, SPRINKLED = NOT REQUIRED

MAXIMUM TRAVEL DISTANCE : (PER TABLE 1016.2)
GROUP B FULLY SPRINKLERED = 300 FT

COMMON PATH TRAVEL DISTANCE : (PER TABLE 1014.3)
GROUP B - FULLY SPRINKLERED = 100 FT

MAXIMUM DEAD END CORRIDOR : 50 FT. (SECTION 1018.4, EXCEPTION 2)

PLUMBING FIXTURES **21 TOTAL OCCUPANT LOAD**	WCs		LAVs		FOUNTAINS	OTHERS
	MALE	FEMALE	MALE	FEMALE		
REQUIRED (11 M / 11 W)	1	1	1	1	1	1 SERVICE SINK
PROVIDED	3	3	3	3	1 HI-LO FIXTURE	1 SERVICE SINK

B: WC'S 1 PER 25 FOR FIRST 50, 1 PER 50 REMAINING
LAV'S 1 PER 40 FOR FIRST 80, 1 PER 80 REMAINING

ATTIC VENTILATION (SECTION 1203.2, EXCEPTION 1):

ATTIC VENTILATION AREA: 1/300 OF ATTIC AREA 50% INTAKE / 50% EXHAUST METHOD
3,315 sq ft / 300 = 11.05 sq ft OF VENTILATION REQUIRED

PROVIDE 50% BY 11.05 sq ft X 0.5 = 5.525 sq ft

HIGH VENTS (EXHAUST): 8 LINEAR FEET OF SOFFIT VENTS = 1 sq ft OF VENTILATION
8 X 5.525 = 44.2 LINEAR FEET OF SOFFIT VENTS REQUIRED
64 LINEAR FEET PROVIDED

LOW VENTS (INTAKE): 8 LINEAR FEET OF SOFFIT VENTS = 1 sq ft OF VENTILATION
8 X 5.525 = 44.2 LINEAR FEET OF SOFFIT VENTS REQUIRED
64 LINEAR FEET PROVIDED

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PRINCIPAL IN CHARGE: KJ
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SHEET TITLE:
LIFE SAFETY PLAN

SHEET NO. G1.11

PROJ. NO. 015292.00

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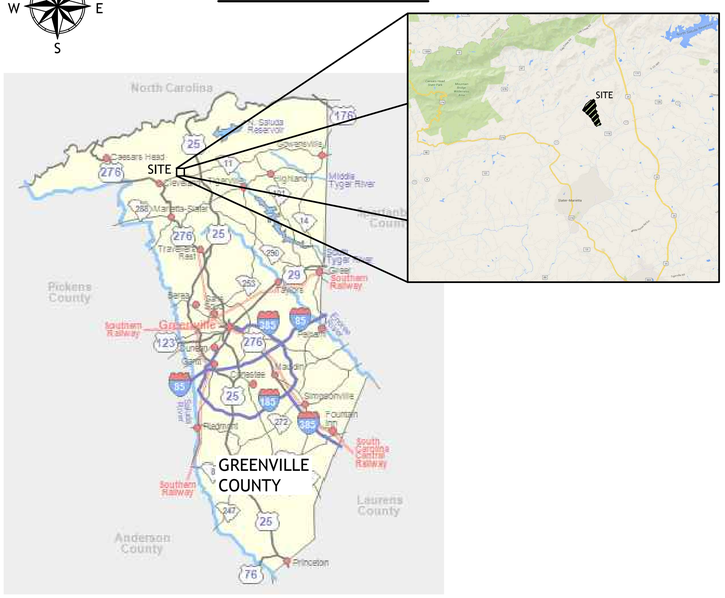
SITE DEVELOPMENT PLANS FOR:

GCRD Camp Spearhead - Phase II

Cherokee Foothills Scenic Hwy. (SC-11) - Greenville County, SC

VICINITY MAP



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SHEET INDEX

DESCRIPTION	DWG. NO.
TITLE SHEET	C001
EXISTING CONDITIONS & DEMOLITION PLAN	C002
SITE PLAN	C101
GRADING & DRAINAGE PLAN	C201
EROSION CONTROL PLAN	C202
UTILITY PLAN	C301
OVERFLOW PARKING AREA PLAN	C401
SITEWORK NOTES & DETAILS	C501-C505

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 15571 LYNN ALAN SOLESBEE

SOUTH CAROLINA BLUEWATER CIVIL DESIGN, LLC No. C04212 CERTIFICATE OF AUTHORIZATION

"I have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of *Title 48, Chapter 14 of the Code of Laws of SC, 1976* as amended, pursuant to *Regulation 72-300* et seq. (if applicable), and in accordance with the terms and conditions of *SCR100000*."

LYNN A. SOLESBEE - SCPE# 15571 DATE

Know what's **below.**
Call before you dig.

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Project Number: 2015-096
DWG Name: 2015-096 Details.dwg
Drawing Scale: as noted
Date of Project: November 2015
Engineer of Record:
Lynn A. Solesbee, P.E.
South Carolina PE# 15571
North Carolina PE# 030285

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NC P0868 - AL CA4065E

CAMP SPEARHEAD - PHASE II
Cherokee Foothills Scenic Hwy. (SC-11), Marietta
Greenville County, SC

PLAN REVISION	ISSUE DATE	ISSUE COMMENT
A	06-01-16	Issued for Bids
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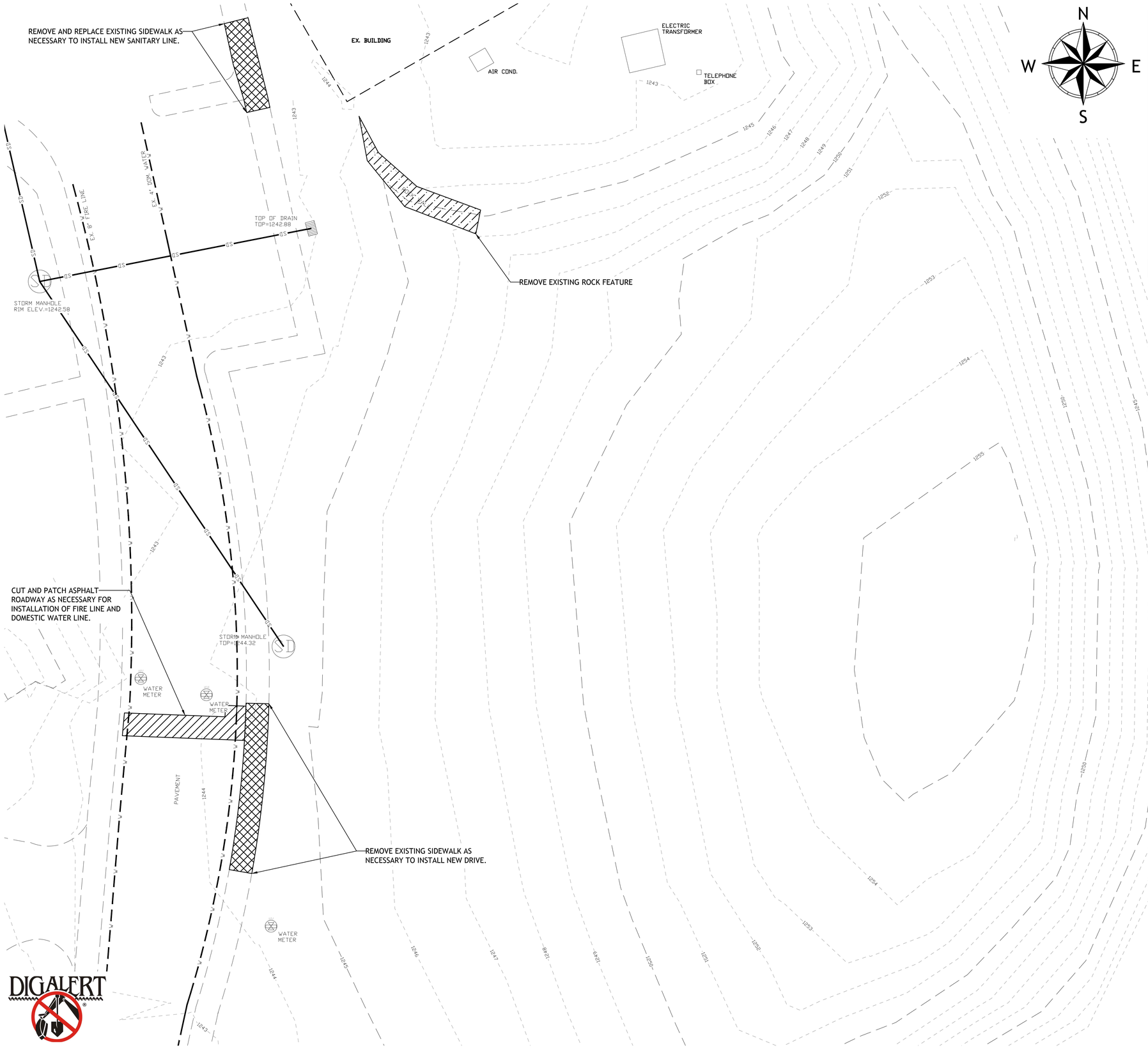
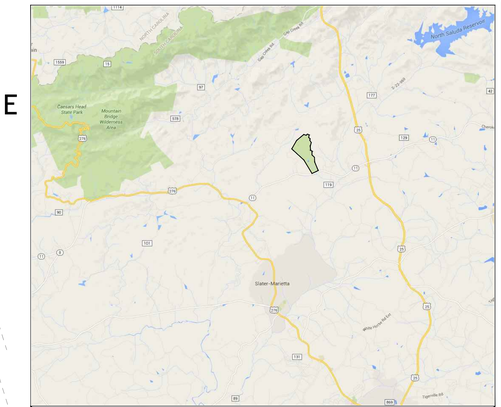
TITLE SHEET

C001





VICINITY MAP - N.T.S.

DEMOLITION NOTES:

1. The Contractor shall insure that all required permits are approved prior to beginning any demolition work.
2. Prior to beginning demolition the Contractor shall insure that all necessary safety measures are installed to protect the Owner's property, people, vehicles, and the public in general.
3. No hazardous material is expected to be encountered. However, if contractor discovers hazardous material he is to inform the Owner in writing immediately. All hazardous materials shall be hauled off-site legally, on an Owner approved route, and disposed of legally at a landfill permitted to accept the specific hazardous material.
4. Demolition work shall be performed during hours of operation as approved by the Owner's Representative.
5. All demolition work shall meet the minimum requirements of OSHA, Federal Laws, State Laws, and Local Laws. The stricter shall govern.
6. Any existing utilities (e.g., storm water lines, water lines, sanitary sewer lines, etc.) that are encountered within the proposed development area should be abandoned and/or removed per direction of Geotechnical Engineer and in coordination with appropriate utility provider. Open pipes or conduits, if any, left in-place adjacent to the construction area should be bulkheaded and grouted as they might serve as conduits for subsurface erosion.
7. The Contractor shall Demolish or Relocate as needed any and all items that interfere with new construction. The Contractor shall immediately bring to Owner's and Engineer's attention any items not shown on Demolition Plan.
8. The contractor is responsible for coordinating with Blue Ridge Electric to adjust locations and/or elevations of existing power poles, guy wires, or other electrical components as needed to make all improvements. The contractor is responsible for any costs involved.
9. The contractor shall provide a temporary perimeter safety fence during construction. The fence shall meet all Owner requirements.

Project Number: 2015-096
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Lynn A. Solesbee, P.E.
South Carolina 15571
North Carolina PE# 030285

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Certificates of Authorization:
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CAMP SPEARHEAD - PHASE II

Cherokee Foothills Scenic Hwy. (SC-11), Marietta
Greenville County, SC

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 15571 LYNN ALAN SOLESBEE

SOUTH CAROLINA BLUEWATER CIVIL DESIGN, LLC No. C04212 CERTIFICATE OF AUTHORIZATION

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EXISTING CONDITIONS & DEMOLITION PLAN

C002

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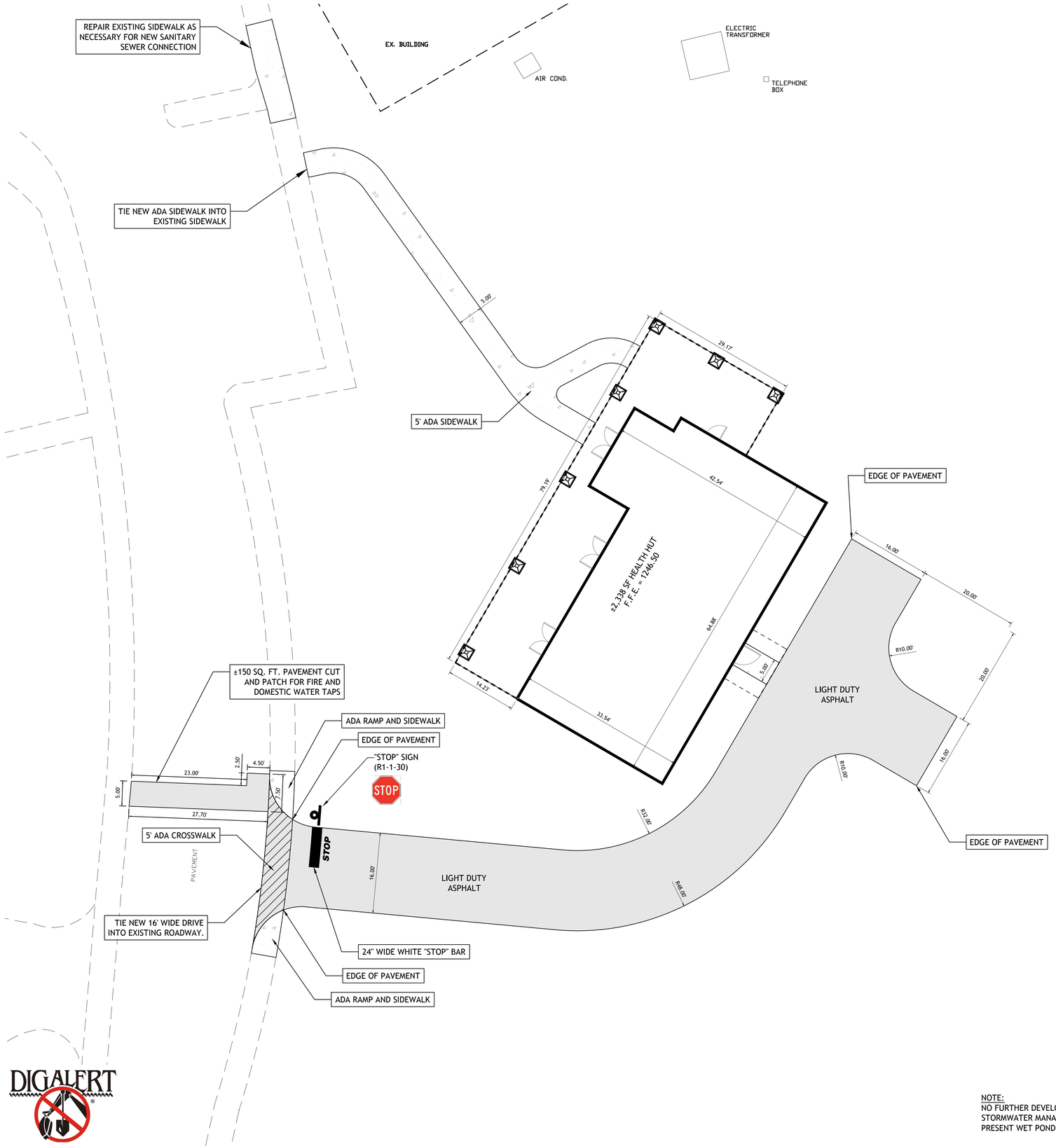

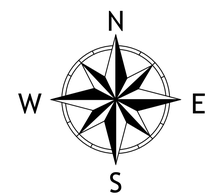

VICINITY MAP - N.T.S.

NOTES:

1. THE CONTRACTOR SHALL COORDINATE THE EXACT BUILDING DIMENSIONS, EXTERIOR BUILDING ELEVATIONS, ATTACHED CONCRETE FLATWORK, UTILITY LOCATIONS, ETC. WITH THE ARCHITECTURAL PLANS PRIOR TO STARTING CONSTRUCTION AND IMMEDIATELY BRING TO THE ATTENTION OF THE ENGINEER ANY DISCREPANCIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY COSTS INCURRED BY A FAILURE TO COORDINATE BETWEEN CIVIL AND ARCHITECTURAL PLANS.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE BETWEEN THE CIVIL PLANS / ARCHITECTURAL PLANS / STRUCTURAL PLANS REGARDING THE GROUND ELEVATIONS DIRECTLY EXTERNAL OF THE BUILDING IN RELATION TO THE STRUCTURAL BUILDING FOOTINGS.
3. CONTRACTOR'S SURVEYOR TO STAKE ALL BUILDING CORNERS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT LICENSED LAND SURVEYOR TO VERIFY AND TO APPROVE PRIOR TO BEGINNING BUILDING CONSTRUCTION. THE CONTRACTOR IS ESPECIALLY CAUTIONED TO INSURE THE CANOPY REMAINS INSIDE THE PROPERTY.
4. THE CONTRACTOR SHALL SEE THE ARCHITECTURAL BUILDING PLANS FOR EXACT BUILDING DIMENSIONS, COLUMN LINES, WALL DIMENSIONS, DOOR LOCATIONS, STOOP/STEP LOCATIONS, ETC. ANY CONFLICTS SHALL BE BROUGHT TO ATTENTION OF ENGINEER.
5. ALL CURBING ON PRIVATE PROPERTY SHALL BE 18" CURB AND GUTTER PER S.C.D.O.T. LATEST STANDARD.
6. ALL SIDEWALKS AND ADA PATHS SHALL BE A.D.A. COMPLIANT AND HAVE A MAXIMUM CROSS-SLOPE OF 2.00% (1:50) AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% (1:20).
7. TACTILE WARNING MATS ARE TO BE INSTALLED ON ALL WHEELCHAIR RAMPS.
8. THE CONTRACTOR SHALL FIELD VERIFY ELEVATIONS AND LOCATIONS OF ALL CURBING, UTILITY POLES, CONTROL BOXES, CATCH BASINS, ETC. NEAR PROPOSED ADA SIDEWALKS PRIOR TO STARTING CONSTRUCTION AND NOTIFY ENGINEER AND OWNER'S REPRESENTATIVE OF ANY CONFLICTS THAT WOULD NOT ALLOW SIDEWALK TO BE INSTALLED PER ADA REQUIREMENTS WITHOUT RELOCATING EXISTING ITEMS.
9. ALL PAVEMENT MARKINGS WITHIN SCDOT & PRIVATE ROAD RIGHTS-OF-WAYS SHALL MEET MUTCD AND SCDOT STANDARDS.
10. ALL STRIPING IN SCDOT RIGHT-OF-WAY SHALL BE THERMOPLASTIC AND INSTALLED TO SCDOT STANDARD DRAWINGS AND SPECIFICATIONS. ALL OTHER STRIPING IS PAINTED.
11. NO WORK IS TO BE PERFORMED IN THE SCDOT OR COUNTY RIGHTS-OF-WAYS WITHOUT COPIES OF APPROPRIATE ENCROACHMENT PERMITS.
12. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT ON FINISH PATTERNS OF ALL SIDEWALKS AND CONCRETE FLATWORK. DETAILS AND INFORMATION ON CIVIL PLANS IS FOR INFORMATION ONLY AND DOES NOT ADDRESS SCORING AND FINISH.

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

NOTE:
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SITE PLAN

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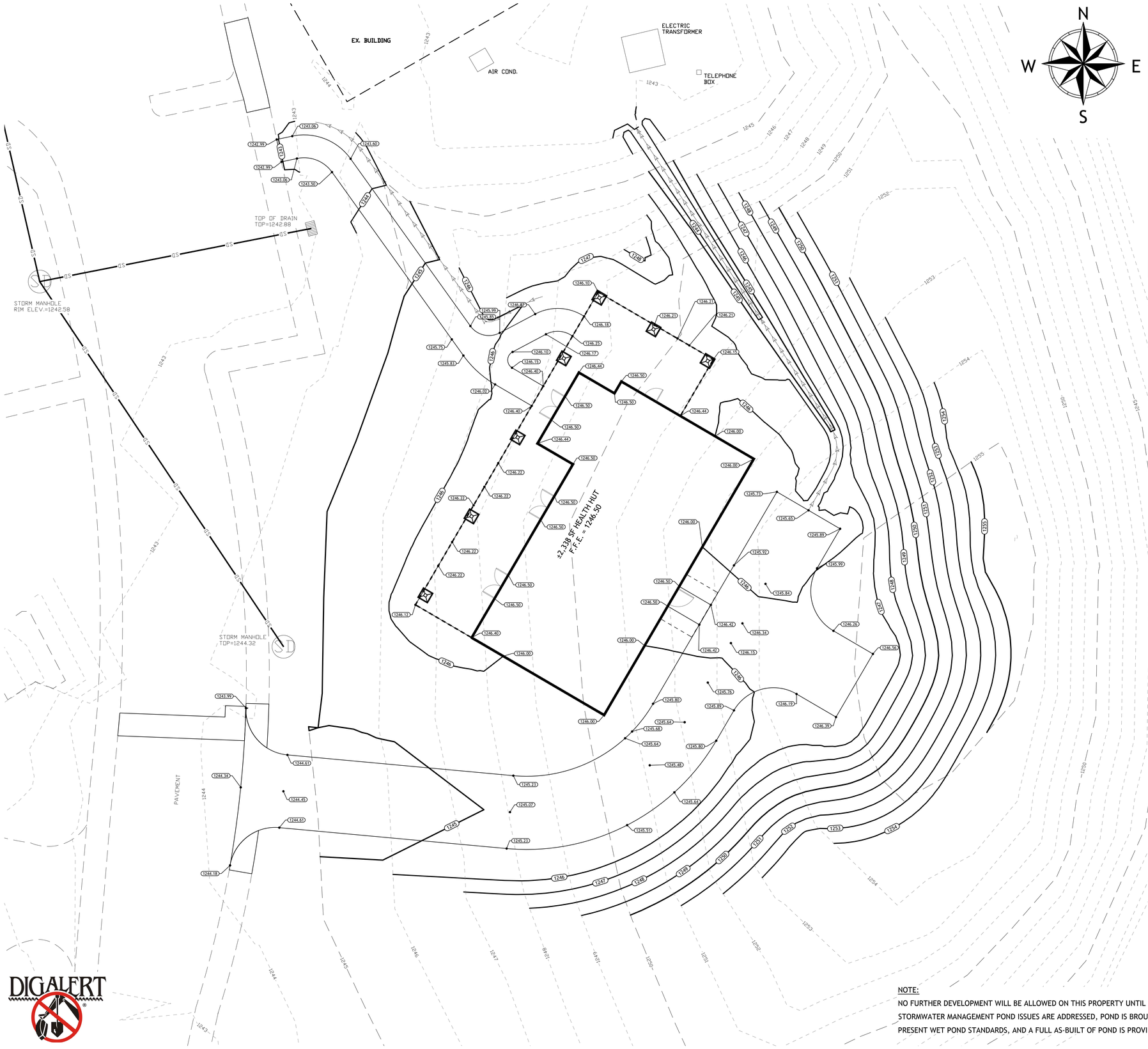

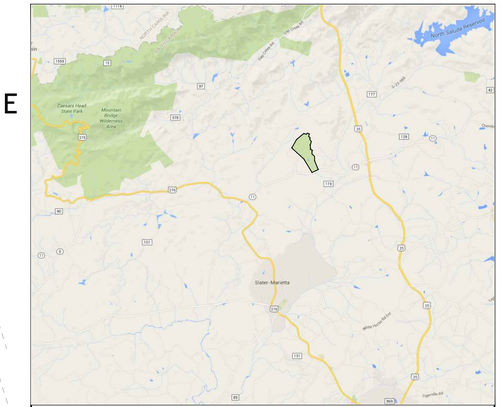

VICINITY MAP - N.T.S.

GRADING NOTES:

1. ALL SITE A.D.A. ACCESSIBLE ROUTES SHALL BE GRADED TO HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5.00% (1:20) AND A MAXIMUM CROSS-SLOPE OF 2.00%.
2. ALL SITE A.D.A. PARKING SPACES SHALL BE GRADED TO HAVE A MAXIMUM SLOPE IN ANY DIRECTION OF 2.00%.
3. MINIMUM SLOPE IN ANY AREA SHALL BE 1.00%.
4. ALL FILL/CUT SLOPES SHOWN ON THE SITE SHALL BE 3:1 OR AS INDICATED ON THE PLAN.
5. CUT SLOPES IN ROCK MAY BE LEFT EXPOSED IF APPROVED BY THE OWNER'S REPRESENTATIVE.
6. THE CONTRACTOR SHALL GRADE AROUND ALL LANDSCAPE ISLANDS TO PROVIDE POSITIVE DRAINAGE AROUND THE ISLAND AT A MINIMUM 1.00% SLOPE.
7. THE CONTRACTOR SHALL COORDINATE ALL EXCAVATION WITH THE GEOTECHNICAL TESTING COMPANY.
8. THE CONTRACTOR SHALL INCLUDE IN PRICE ALL CUT/FILL NECESSARY TO COMPLETE THE PROJECT AS DESIGNED. UNIT PRICES SHALL BE PROVIDED FOR MASS ROCK EXCAVATION, TRENCH ROCK EXCAVATION, HAUL OFF, AND HAUL IN.
9. ALL EXISTING FIELD CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT SITE ENGINEER AND OWNER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE CONTRACTOR AGREES THAT HE AGREES TO ALL EXISTING SITE CONDITIONS AFTER TOPSOIL STRIPPING BEGINS.
10. THE CONTRACTOR IS TO DISPOSE OF ALL EXCESS CUT SOIL IN A LEGAL MANNER OFF-SITE. THIS REMOVAL OF SOIL SHALL BE BID AS A PART OF THE OVERALL GRADING OF THE SITE.
11. THE INVERT AND PIPE DIRECTION OF ALL EXISTING STORM AND SANITARY STRUCTURES SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
12. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF DOWNSPOUT/ROOF DRAIN CONNECTIONS WITH ARCHITECT/MEP. ALL ROOF DRAIN LINES SHALL HAVE MINIMUM OF 3' OF COVER, HAVE MINIMUM SIZE OF 8", AND HAVE MINIMUM SLOPE OF 2.0%.

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GRAPHIC SCALE

(IN FEET)
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DIGALERT

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GRADING & DRAINAGE PLAN

C201

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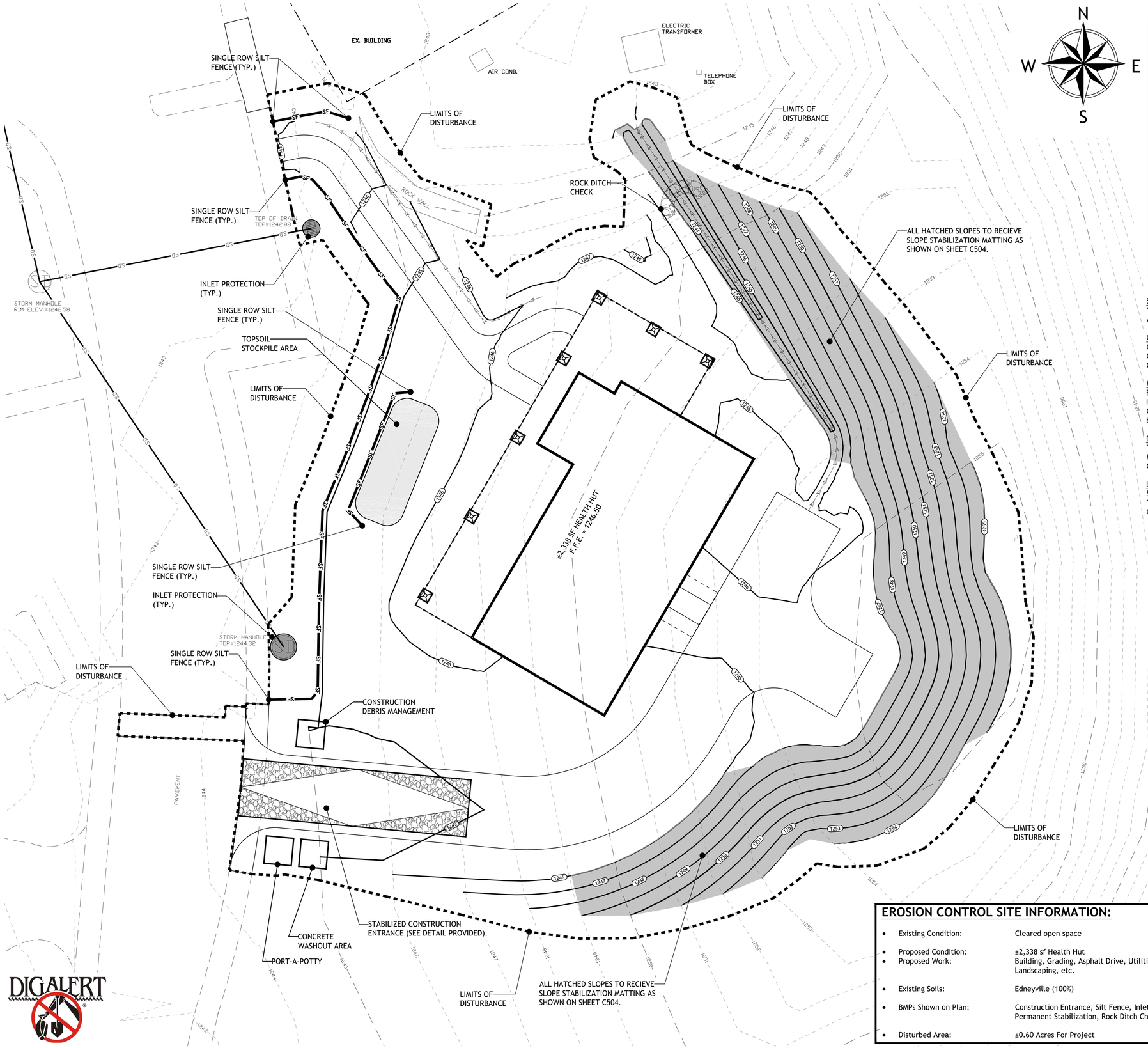

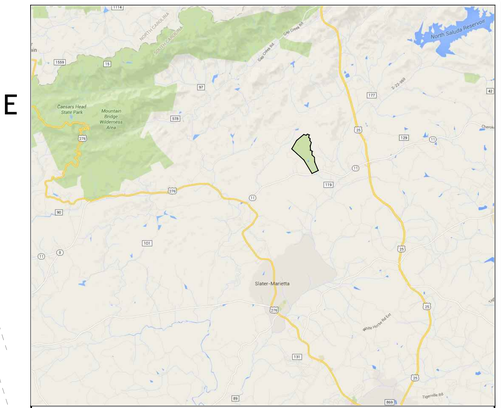

VICINITY MAP - N.T.S.

SLOPE PROTECTION NOTE:
** THE CONTRACTOR SHALL PROVIDE JUTE MATTING OR APPROVED EQUIVALENT ON ALL SLOPES 3:1 OR GREATER. **

CONSTRUCTION TRAFFIC NOTE:
CONSTRUCTION TRAFFIC WILL SHALL USE THE RIP RAP CONSTRUCTION ENTRANCE. CONTRACTOR SHALL INSURE THAT THEY ARE NOT TRACKING SEDIMENT OFF-SITE. CONTRACTOR SHALL MONITOR AND WASH OFF TIRES IF REQUIRED.

MAINTENANCE STATEMENT:
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

DUST CONTROL:
THE CONTRACTOR SHALL USE ALL REASONABLE MEANS (e.g. WATER TRUCK, TARPS, MULCH, GRASSING, ETC.) NECESSARY TO REDUCE DUST DURING DEMOLITION AND CONSTRUCTION.

LAND DISTURBANCE NOTE:
STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED.

BMP LEGEND

- PROPOSED GRADE LINES
- SILT FENCE
- INLET PROTECTION
- DISTURBED LIMITS
- CONSTRUCTION ENTRANCE
- PROPOSED STORM DRAINAGE
- ROCK DITCH CHECK

EROSION CONTROL SITE INFORMATION:

Existing Condition:	Cleared open space
Proposed Condition:	±2,338 sf Health Hut
Proposed Work:	Building, Grading, Asphalt Drive, Utilities, Landscaping, etc.
Existing Soils:	Edneyville (100%)
BMPs Shown on Plan:	Construction Entrance, Silt Fence, Inlet Protection, Permanent Stabilization, Rock Ditch Checks, etc.
Disturbed Area:	±0.60 Acres For Project

GRAPHIC SCALE
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DIGALERT

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EROSION CONTROL PLAN

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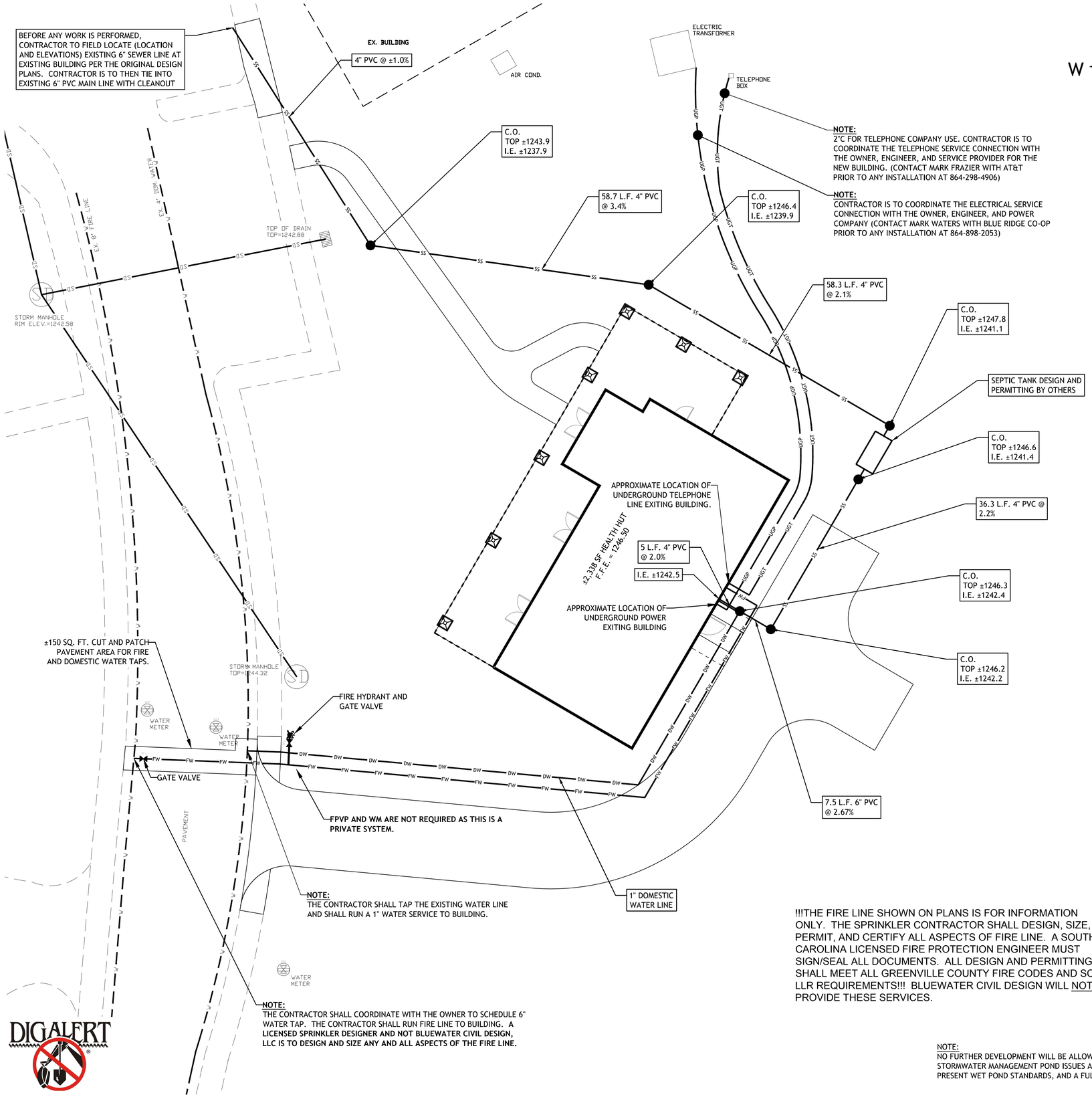

!!!THE FIRE LINE SHOWN ON PLANS IS FOR INFORMATION ONLY. THE SPRINKLER CONTRACTOR SHALL DESIGN, SIZE, PERMIT, AND CERTIFY ALL ASPECTS OF FIRE LINE. A SOUTH CAROLINA LICENSED FIRE PROTECTION ENGINEER MUST SIGN/SEAL ALL DOCUMENTS. ALL DESIGN AND PERMITTING SHALL MEET ALL GREENVILLE COUNTY FIRE CODES AND SC LLR REQUIREMENTS!!! BLUEWATER CIVIL DESIGN WILL NOT PROVIDE THESE SERVICES.

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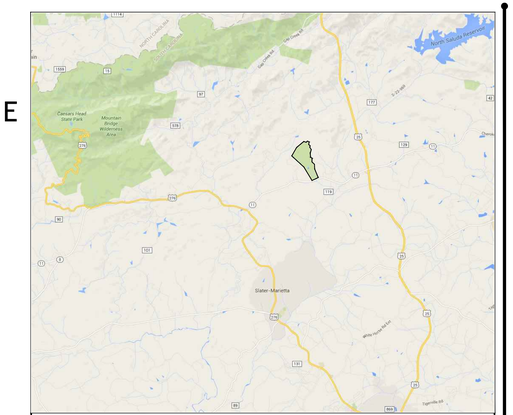

VICINITY MAP - N.T.S.

GENERAL UTILITY PLAN NOTES:

1. THE CONTRACTOR SHALL CONTACT ALL UTILITY AUTHORITIES (e.g. POWER, TELEPHONE, CABLE, DATA, GAS, WATER, SEWER, ETC) REGARDING PROJECT COORDINATION. THE CONTRACTOR SHALL INCLUDE IN PRICE/BID ALL WORK NECESSARY TO COORDINATE THE RELOCATION OF EXISTING UTILITY SERVICES OR MAINS THAT CONFLICT WITH THIS PROJECT'S COMPLETION. UTILITY SERVICES OR MAINS, OTHER THAN DOMESTIC WATER AND SEWER, HAVE NOT BEEN DESIGNED AS PART OF THIS PLAN.

2. THE CONTRACTOR SHALL CONTACT ALL UTILITY AUTHORITIES PRIOR TO START OF CONSTRUCTION SET UP A PRE-CONSTRUCTION MEETING WITH ALL AUTHORITIES (INCLUDING FIRE DEPARTMENT) TO COORDINATE INSTALLATIONS, INSPECTIONS, AND PAYMENT OF ANY RELATED FEES. THE CONTRACTOR SHALL INCLUDE IN PRICE/BID ALL TAP FEES, INSPECTION FEES, METER FEES, ETC. FOR WATER AND SEWER WORK UNLESS SPECIFICALLY INSTRUCTED OTHERWISE.

3. SEE SITE LIGHTING PLANS AND SITE ELECTRICAL PLANS FOR COORDINATION OF SITE LIGHTING AND SITE ELECTRICAL ROUTING, SITE ELECTRICAL RELOCATION, TELEPHONE ROUTING, DATA ROUTING, ETC.

4. THE CONTRACTOR SHALL ONLY USE MATERIALS MEETING STATE AND LOCAL UTILITY AUTHORITY STANDARDS AND SPECIFICATIONS FOR THE WATER AND SEWER WORK.

5. SANITARY SEWER SERVICE LINES THAT ARE SPECIFIED ON THIS PLAN SHALL TERMINATE 5' OUTSIDE THE BUILDING. THE CONTINUATION SHALL BE PICKED UP ON THE INTERNAL PLUMBING DRAWINGS. ALL EXTERNAL SANITARY SEWER SERVICE PIPING 5' OUTSIDE THE BUILDING SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 OR CLASS 50 DUCTILE IRON PIPE AS NOTED ON THE PLANS. 6" SEWER SERVICES SHALL BE CONSTRUCTED WITH NO LESS THAN A 1.04% SLOPE AND NOT MORE THAN 75' BETWEEN CLEANOUTS. 4" SEWER SERVICES SHALL BE CONSTRUCTED WITH NO LESS THAN 2.08% SLOPE AND NOT MORE THAN 50' BETWEEN CLEANOUTS. THE MINIMUM COVER IS 3' AND THE MAXIMUM COVER IS 14' ON PVC SERVICES. DIP IS REQUIRED ON ALL LINES OUTSIDE OF 3' MINIMUM AND 14' MAXIMUM COVER.

6. TOPS, INVERTS, SLOPES, AND MATERIAL OF 4" SEWER SERVICE SHOWN ARE APPROXIMATE. CONTRACTOR SHALL INSTALL SEWER SERVICE IN ACCORDANCE WITH TEN STATE STANDARDS, GREENVILLE COUNTY CODES, S.C.D.H.E.C. CODES, AND CRITERIA IN NOTES.

7. DOMESTIC WATER LINES THAT ARE SPECIFIED ON THIS PLAN SHALL TERMINATE 5' OUTSIDE THE BUILDING. THE CONTINUATION SHALL BE PICKED UP ON THE INTERNAL PLUMBING DRAWINGS. ALL ¾" TO 2" WATER LINES SHALL BE P.E. PIPE, COPPER (K) MATERIAL, OR APPROVED EQUAL. ALL WATER LINES 2.5", 3", 4", 6", 8", ETC. SHALL BE C-900 POLYVINYL CHLORIDE (PVC) OR CLASS 350 DUCTILE IRON PIPE (D.I.P.) AS NOTED ON THE PLAN.

8. THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION CONFERENCE WITH ALL UTILITY COMPANIES (GREENVILLE WATER, GAS COMPANY, POWER COMPANY, AT&T, ETC.), GREENVILLE COUNTY PLANNING/ENGINEERING, FIRE MARSHAL, OWNER, ENGINEER, AND OTHER INTERESTED PARTIES PRIOR TO STARTING CONSTRUCTION AND COORDINATE AMONG ALL OF THE PARTIES THE SCHEDULE AND PROCEDURES FOR ALL ASPECTS OF CONSTRUCTION.

9. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL WATER AND SEWER LINE WORK SHALL BE PER ALL LOCAL AND SCDHEC REQUIREMENTS AND SPECIFICATIONS.

10. ALL PVC SEWER AND ROOF DRAINAGE LINES SHALL BE SCHEDULE 40 PVC.

11. SITE LIGHTING AND OTHER SITE ELECTRICAL/PHONE/DATA INFORMATION SHOWN IS FOR INFORMATION ONLY AND NOT FOR CONSTRUCTION. THE ELECTRICAL ENGINEER WILL ISSUE FOR CONSTRUCTION SITE LIGHTING AND OTHER SITE ELECTRICAL PLANS.

12. THE INVERT AND PIPE DIRECTION OF ALL EXISTING STORM AND SANITARY STRUCTURES SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

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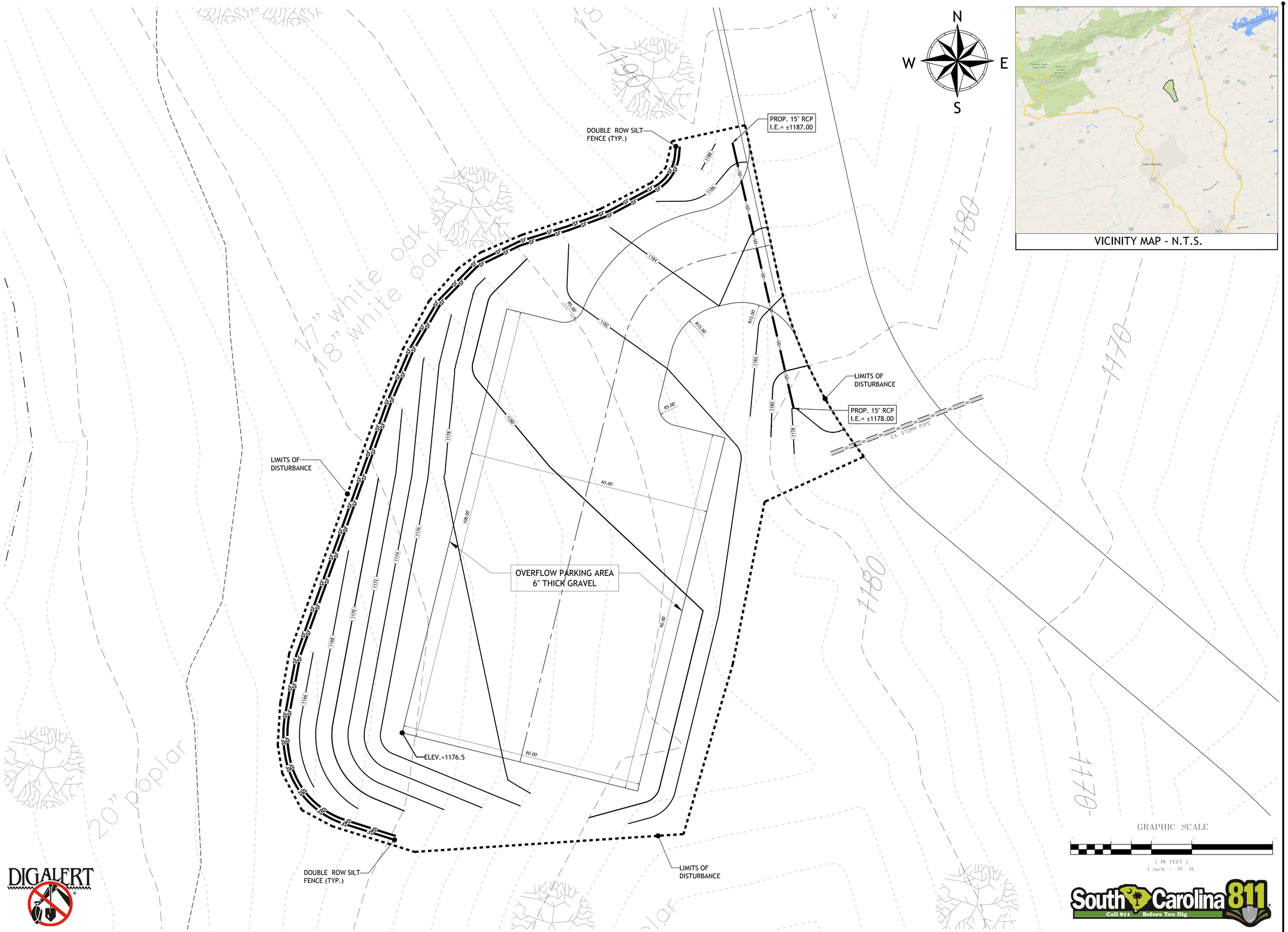
UTILITY PLAN

C301



VICINITY MAP - N.T.S.

DIGALERT

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OVERFLOW PARKING AREA PLAN

C401

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GENERAL NOTES FOR SITEWORK

1. The Contractor shall call 811 Utility Locate Service prior to start of any construction activity.

2. Survey:
   - 2.1. Survey Information provided by H & M SURVEYING, LLC (864-335-8995)
   - 2.2. The Contractor shall verify all benchmarks, easements, the location and invert elevation of all underground utilities within the construction area, verify property corners, and verify topography before any construction is begun.
   - 2.3. The Contractor shall contact all utility companies prior to excavation to request a locate for all buried cables and underground utilities in the construction area or utilities that will be impacted by construction.

3. Permits:
   - 3.1. The Contractor shall have copies of any necessary encroachment and construction permits prior to entering any right-of-way or beginning construction.
   - 3.2. Permits typically required include but are not limited to: State NPDES Coverage, Local Issuing Authority Grading Permit, DOT Encroachment Permits (access and utility taps), State or Local Water Authority water extension permit, State or Local Sewer Authority sewer extension permit, Fire Marshall approval, and Local Municipality Zoning and Site Plan Approval.
   - 3.3. The Contractor shall immediately notify the Owner's Representative when notices or verbal instructions are received from regulatory authorities, inspectors, or similar. The Contractor shall proceed with work associated with such notices or instructions once approved to do so by the Owner's Representative or as required by law.

4. Safety:
   - 4.1. By Law, the Contractor shall comply with all OSHA regulations, including safety protocol, safety gear, safety education, etc.
   - 4.2. The Contractor is exclusively responsible for the conditions of the site, including safety of all persons and property throughout the term of the project construction, 24 hrs per day/ 7 days per week.
   - 4.3. The Engineer's review of the Contractor's work product and performance will not include review of the Contractors safety programs. Such reviews are to be by OSHA inspectors and the Owner's Representative.
   - 4.4. The Contractor is responsible for providing and maintaining all necessary traffic control devices during construction. Under no circumstances shall equipment be loaded or off-loaded on an open roadway. If such activity is required the Contractor shall coordinate shutting down the road with the appropriate DOT and utililize appropriate traffic control warning devices.

5. SWPPP:
   - 5.1. The Contractor is responsible for reviewing the requirements in the SWPPP manual and maintaining all records as required by Local, State, and Federal Laws.
   - 5.2. The SWPPP manual/plans shall be kept on-site in a secure location accessible to the inspector at all times during construction.
   - 5.3. The Contractor shall post a 24-Hour Contact and phone # and rain gauge at the job site.

6. Pre-construction Meeting:
   - 6.1. The Contractor shall immediately contact the state or local issuing authority, utility companies, etc. and set up a pre-construction conference at the site.
   - 6.2. The Contractor shall make sure the Engineer of Record, Owner, Inspector, Superintendent, and any relevant erosion control sub-contractor are in attendance.
   - 6.3. The Contractor shall develop an attendance sign in sheet and keep minutes of the meeting with the SWPPP.

7. Tree Protection:
   - 7.1. The Contractor shall protect trees that are noted to remain on the plans or as marked in the field by Owner's Representative. Trees that are to be protected shall have a protective fencing installed around the critical root zone (1' for every 1" DBH) and shall not disturb the root zone of such trees unless approved to do so in writing by the Owner's Representative.
   - 7.2. The Contractor shall remove all trees and vegetation that interfere with new construction not noted to be protected. Remove debris from site or burn in accordance with local laws.
   - 7.3. The Contractor shall be responsible for obtaining all necessary dumping or burning permits.

8. Earthwork:
   - 8.1. The Contractor shall grade the site to the lines and grades shown and shall proof-roll and test compaction on all areas.
   - 8.2. The Owner shall retain the services of a testing company to test all areas to insure they meet the minimum compaction requirements as noted in these notes or as required by the Owner's Geotechnical Engineer's report.
   - 8.3. The Grading Contractor shall proof-roll the construction area with a fully-loaded tandem-axle dump truck, or approved equal, by making 2 complete passes in each of 2 perpendicular directions. all soft spots shall be undercut and re-compacted with suitable structural fill material and re-tested. Proof-rolling shall be observed by a qualified Geotechnical Engineer or Engineering Technician.
   - 8.4. All proposed elevations shown are finish grade elevation and the Grading Contractor shall deduct quantities from the finished grades as required due to depth of pavement sections, sidewalks, turf areas with topsoil, building foundations, etc. to develop the true finished sub-grade.
   - 8.5. Any topsoil in the construction area shall be stripped to a depth as required (see Geotechnical Report for referenced depths) and stockpiled as directed by the Owner's Representative. Topsoil shall be re-used on-site unless approved otherwise.
   - 8.6. The upper 18" of fill under pavement or buildings shall be compacted to 98% of maximum dry density (STD. PROCTOR) ASTM D-698. All other structural fill (including fill slopes) shall be compacted to 95% maximum dry density (STD. PROCTOR). The Contractor is responsible for reviewing the Geotechnical Report for further compaction requirements.
   - 8.7. All excavation shall be "Classified Excavation". Excavation shall be "Classified" as "Common Excavation" or "Rock Excavation". Rock Excavation is removing material that has been observed by the testing company to only be removed by blasting or with an air hammer. Common Excavation is removing of materials by means of ripping and do not fall in the category of rock excavation as defined above (includes boulders, typical weathered rock, etc.)
   - 8.8. The classification of soils include: topsoil, fill material, unsuitable material, and rock excavation. The classification of soils is the responsibility of the geotechnical soil testing firm.
   - 8.9. Rock Excavation is classified as:
     - 8.9.A. Massive rock excavation - Material of 1 c.y. or more unable to be excavated with a single tooth ripper drawn by a crawler tractor having a minimum draw bar rated at not less than 53,000 pounds (Caterpillar D-8 or equivalent).
     - 8.9.B. Trench excavation - Material of ½ c.y. or more which cannot be excavated with a power shovel having the capacity of at least that of a Caterpillar 225.
   - 8.10. Fill material (including off site borrow) shall be from a source approved by the soil testing company and shall be free of roots, organics and other deleterious material. Fill shall be placed in lifts not exceeding 10 inches in loose lift thickness and moisture conditioned to within 2%-3% of the optimum moisture content. The fill shall have a Liquid Limit (LL) and a Plasticity Index (PI) less than 40 and 20, respectively. All fills shall have a Standard Proctor (ASTM D698) maximum density of at least 100 pounds per cubic foot (pcf) and a maximum particle size of 3 inches.
   - 8.11. All existing pavement to be left in a fill area shall be scarified prior to placement of any fill material.
   - 8.12. All slopes steeper than 4:1 receiving fill shall be plowed and scarified to enhance the bonding of new fill with existing surfaces.
   - 8.13. The Grading Contractor shall include in contract price the total cost and unit price for all cut/fill necessary for earthwork balance including if necessary unit prices for hauling in material and hauling off material.
   - 8.14. The wetting/drying of soils to achieve specified compaction shall be included in the Grading Contractor's contract price.
   - 8.15. All private roads and parking lots shall have a minimum 5'-0" wide grassed shoulder with a maximum 2.0% cross slope. All public roads shall have a 6'-0" wide grassed shoulder with a maximum 2.0% cross slope.
   - 8.16. Tolerances for final constructed grades shall be plus or minus 0.05 feet. The final graded surface under all building slabs shall be within a tolerance of 3/8" when measured with a 10' straight edge. All designated ADA accessible paths shall have a maximum 2.00% (1:50) cross-slope and maximum 5.00% (1:20) running slope, no exceptions. All designated ADA accessible parking spaces and landings (including 4' area out from all doorways) shall have a maximum 2.00% (1:50) slope in any direction, no exceptions. All designated ADA accessible ramps shall have a maximum slope of 8.33% (1:12), no exceptions.

9. Storm Drainage:
   - 9.1. Reinforced Concrete Pipe (RCP) shall conform to ASTM C 76, latest edition. RCP with cover less than 15' and greater than 2' shall be CLASS III bell and spigot type and installed with flexible plastic (Bitumen) gaskets at all joints, unless otherwise noted. All other depths of cover shall be CLASS IV or V as noted. Gaskets shall comply with AASHTO M-198 751, Type B, and shall be installed in strict accordance with pipe manufacturer's recommendations.
   - 9.2. All corrugated plastic pipe shall meet the requirements of AASHTO M-294, Type S, shall be smooth interior with annular corrugated exterior. HI-Q Sure-Lock 10.8 pipe, ADS, N-12, or approved equal. All joints shall be bell and spigot and shall meet the requirements of AASHTO M-294, shall be watertight, meeting the requirements of ASTM D 3212. The gaskets shall be made of Polyisoprene meeting the requirements of ASTM F 477. Installation shall conform to AASHTO M-294, ASTM D-2321, and manufacturers installation procedures. The maximum cover allowed over the top of CCP is 15'.

10. Utilities:
    - 10.1. All water shall be per the approved drawing and the latest standards and specifications of the local water authority. The Contractor shall coordinate construction with the local water authority, including schedule & laydown areas. Any deviation from the approved plan shall be brought to the attention of the Engineer of Record and the appropriate inspector immediately. Deviations from the approved plan shall not be installed unless approved in writing by the local water authority.
    - 10.2. Sanitary sewer lines and appurtenances shall be installed per the approved drawing and latest standards and specs of the local sewer authority.
    - 10.3. The Contractor shall insure they have the proper approvals from the SCDHEC and/or SCLLR prior to installation of any domestic water, fire water, or sanitary sewer system.
    - 10.4. All utility trenches shall be thoroughly compacted as required by the local authority and tested to prevent settlement and damage to future pavement and structures.
    - 10.5. The Contractor shall be responsible for relocating any existing utilities necessary for site construction, including all permits and fees. The Contractor is responsible for contacting all utility companies and including in his price all fees, charges, expenses, etc. in his cost to the Owner.

11. Pavement:
    - 11.1. All paving work (materials and construction) shall comply with state standards and specifications for Hot-mixed Asphalt Pavement. (See Pavement Section Details for depths of layers)
    - 11.2. All pavement shall be installed on a finished and well-drained sub-grade compacted as specified in previous notes.
    - 11.3. Base course material for asphalt pavement shall be stone aggregate base course (ABC) and compacted to 95% modified proctor.
    - 11.4. Concrete pavement shall consist of a base course with stone aggregate base course compacted to 95% modified proctor. The concrete shall be poured to with either WWF or fiber reinforcing. Concrete shall be broom finished and jointed as required.
    - 11.5. Concrete curb and gutter shall be 18" wide with standard curb constructed with 4,000 PSI concrete with expansion joints and contraction joints installed to comply with state DOT standard specification for materials and construction of curb and gutter.
    - 11.6. All parking lot striping shall be per State D.O.T. specifications with two (2) coats of paint applied. The bases of all light poles, all bollards, and the face of all sidewalk, are to be painted traffic yellow. The Contractor is responsible for providing fire lane striping and signage meeting all local requirements. Parking lot striping shall be reflective white paint. Stop bars, directional arrows, and parcel pickup are to be white reflective paint. All ADA striping shall be reflective ADA blue.

12. Erosion Control and Drainage:
    - 12.1. All areas outside paving limits and building foundations shall have a minimum 4" layer of topsoil added and permanently grassed in accordance with state seeding specifications or landscaped per the Landscape Plan if applicable.
    - 12.2. The Grading Contractor shall maintain positive drainage away from buildings at all times. The Contractor shall bring to the attention of the Engineer any areas that may not drain properly during construction.
    - 12.3. The sequence of work shall conform to the erosion control narrative.
    - 12.4. Sediment controls during construction shall comply with all local, state, and federal laws and regulations. After all sitework is completed and grassing established, the Grading Contractor shall remove all silt from the site and legally dispose of all silt off-site at no additional cost to the Owner, or bury on-site in non-structural area.

13. General:
    - 13.1. The Contractor shall review the plans and specifications carefully and shall immediately notify the Engineer for a review if any discrepancies are discovered at the site or on the drawings.
    - 13.2. All reference to state standards and specifications are made from the South Carolina Highway Department's standard specification, latest edition.
    - 13.3. All dimensions shown on the drawings are measured as shown and from outside face of building wall or to face of curb line, unless otherwise noted. Curb and Gutter is shown as three (3) lines (outside edge of gutter, face of curb, and back of curb).
    - 13.4. All retaining wall design shall be per Architectural Plan or separate Structural Engineer's design notes and details. The Civil Plans shall not be considered plans for retaining wall construction.
    - 13.5. The General Contractor is responsible for posting all required bonds that General Contractors are allowed to post.
    - 13.6. All material's, construction, and plans are to comply with SCDHEC and Greenville County as applicable.
    - 13.7. If any conflicts between the notes, details, specifications, and drawings occur, then by rule the stricter shall govern.

STANDARD EROSION AND SEDIMENT CONTROL NOTES

Startup

1. Sediment and erosion control devices shall be installed and functioning prior to beginning any project earth disturbing activities.
2. To secure the project site, locate limits of construction, protect areas that are to remain undisturbed, and prevent migration of construction debris, orange construction fencing shall be installed around areas not requiring silt fencing. Any accumulation of construction debris on public roadways or adjacent properties shall be removed within 24 hours. Care shall be taken when installing construction fencing to not obscure oncoming traffic at intersections, adjacent driveways and the project construction entrance.
3. All Waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer cannot be maintained between the disturbed area and WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.

Inspections and Maintenance

4. All sediment and erosion control devices shall be inspected every seven (7) days and within 24 hours after each rainfall event that produces ¼ inch or more of precipitation. Damaged or ineffective devices shall be repaired or replaced, as necessary.
5. All sediment and erosion controls shall be inspected, at the specified inspection frequency, until construction is complete and the site is permanently stabilized.
6. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been permanently stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is permanently stabilized.
7. All existing and new storm water structures, affected by this project, shall be inspected and maintained clean of accumulated demolition debris or sediments. The inspection and maintenance of these structures shall be accomplished on the same schedule as the sediment and erosion control devices.
8. Disposal of all recovered sediments and construction debris shall be in accordance with all applicable City, State and Federal Regulations.
9. All erosion and sediment control plans and documentation (e.g., certification statements, inspection records, and maintenance records) shall be available on site during construction. All plans and documents shall be updated as required per SC NPDES General Permit SCR100000.

Best Management Practices (BMPs)

10. A stabilized construction entrance shall be installed and maintained on the project site. Storm water inlet protection shall be provided for all inlets (upstream and downstream) within 50 ft. of the construction entrance (on both sides of the public roadway).
11. During the course of construction activities erosion and sediment controls shall be used to prevent; sediment accumulation on public roadways (including street gutters), sediment laden runoff from entering into existing storm water system inlets or depositing on adjacent properties, and airborne dust migration off-site. Any accumulation of sediment from the project site on public roadways or adjacent properties shall be removed within 24 hours.
12. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized immediately after the utility installation.
13. Silt fencing shall be placed no closer than 5 ft. downhill from the toe of any fill area.
14. Temporary stockpiling of useable or waste materials for more than fourteen (14) days shall have appropriate erosion and sediment control measures installed. Temporary stockpiles shall be placed away from storm water inlet structures, adjacent property and public roadways.
15. Temporary diversion berms and/or ditches will be provided as needed during construction to protect areas from upslope runoff and/or to divert sediment laden water to appropriate traps or stable outlets.
16. Cat track or surface roughening is required for all slopes greater than 4:1 prior to seeding and lying of synthetic or vegetative mats. Cat tracking or surface roughening shall produce a surface with furrows running cross slope, parallel with slope contours, and perpendicular to surface runoff.

Close-out

17. Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or provide an individual plan meeting section R.72-307 of the Storm Water Management and Sediment Reduction Act.
18. The site shall be considered permanently stabilized when all surface disturbing activities are complete and either of the two following criteria are met:
    - a. A uniform (e.g., evenly disturbed, without large bare areas) perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or
    - b. Equivalent permanent stabilization measures (such as riprap, gabions, or geotextiles) have been employed.
22. Upon completion of construction activities and meeting the conditions of permanent stabilization a Notice of Termination (NOT) shall be submitted to SC DHEC and a copy of the submitted NOT shall be sent to the Office of the State Engineer.

SCDHEC STANDARD NOTES

1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.

2. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.
   - Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
   - Where construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the Site.

3. All sediment and erosion control devices shall be inspected once every calendar week. If periodic inspection or other information indicates that a BMP has been inappropriately or incorrectly installed, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification.

4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove sediment before being pumped back into any waters of the State.

5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.

6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.

7. Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with S.C Reg. 72-300 et seq. and SCR100000.

8. Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.

9. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.

10. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.

11. A copy of the SWPPP, inspections records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.

12. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.

13. Minimize soil compaction and, unless infeasible, preserve topsoil.

14. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;

15. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.).

16. The following discharges from sites are prohibited:
    - Wastewater from washout of concrete, unless managed by an appropriate control;
    - Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
    - Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
    - Soaps or solvents used in vehicle and equipment washing.

17. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site.

18. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or SC's Water Quality Standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPPP and alternative BMPs must be implemented as soon as reasonably possible.

19. A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPPP prior to the implementation of construction activities. For non-linear projects that disturb 10 acres or more this conference must be held on-site unless the Department has approved otherwise.

Temporary Stabilization

Temporary Stabilization is defined as a condition where exposed soils or disturbed areas are provided a temporary vegetative and/or non-vegetative protective cover to prevent erosion and sediment loss. Temporary stabilization may include temporary seeding, geotextiles, mulches, and other techniques to reduce or eliminate erosion until either final stabilization can be achieved or until further construction activities take place to re-disturb this area.

Initiating Temporary Stabilization

Initiate temporary stabilization by mulch or temporary stabilization by seeding within 7 calendar days where land disturbing activities have temporarily ceased on the Project and will not resume for a period exceeding 14 calendar days. Where land disturbing activities on a portion of the Project are temporarily ceased, and the land disturbing activities are resumed within 14 days, temporary stabilization measures are not required to be initiated on that portion of the Project.

Temporary stabilization by seeding is required if the Project will not be worked for a period longer than 60 days.

Initiate temporary stabilization measures as soon as practicable for areas where initiating temporary stabilization measures within 7 days is infeasible (e.g., where snow cover, frozen ground, or drought conditions preclude stabilization).

Temporary Stabilization

Acceptance of Temporary Stabilization

Before acceptance of temporary stabilization by the regulatory agency and the Design Engineer or Landscape Architect, temporary stabilization is required that is sufficient to control erosion for a given area and length of time before the next phase of construction or the establishment of permanent seeding is to commence. A satisfactory stand of temporary stabilization meeting the requirements of this Specification is required regardless of the time of the year the work is performed.

Temporary Cover by Mulch

Use temporary cover by mulch where it is not feasible or practicable to bring an area to final slope and grade. Finish the surface so that permanent seeding can be performed without subsequent disturbance by additional grading.

Temporary Cover by Seeding

Following the preparation of the seedbed, sow seed per the seeding Tables and apply an appropriate Mulch prior to a rainfall event that compacts the seedbed. The CONTRACTOR may add granular lime and fertilizer as necessary to enhance growth.

Final Stabilization

Final Stabilization is defined that all land-disturbing activities at the construction site have been completed and that on all areas not covered by permanent structures, either

(1) A uniform (e.g., evenly distributed, without large bare areas) permanent vegetative cover with a density of 70 percent has been established, or

(2) Equivalent permanent stabilization measures (such as the use of landscaping mulch, riprap, pavement, and gravel) have been implemented to provide effective cover for exposed portions of the construction site not stabilized with permanent vegetation.

Final stabilization by vegetation must be achieved with permanent perennial vegetation prior to issuing the Notice of Termination (NOT).

Permanent Seeding

Initiate permanent seeding within 7 calendar days where land disturbing activities have permanently ceased on the Project. Where land disturbing activities are resumed within 14 days, stabilization measures are not required to be initiated on that portion of the Project. Initiate permanent seeding measures as soon as practicable for areas where initiating permanent seeding measures within 7 days is infeasible (e.g., where snow cover, frozen ground, or drought conditions preclude stabilization).

When performing permanent seeding for permanent detention ponds, ensure that the detention pond is cleaned of any deposited sediment and graded to the required permanent detention basin configuration. Ensure the seedbed for the permanent seeding is established in accordance with this Specification.

Acceptance of Permanent Seeding

Before acceptance, a uniform perennial vegetative cover with a density of 70% of each square yard of the seeded area is required. A well developed root system must be established to sufficiently survive dry periods and winter weather and be capable of reestablishment in the spring.

Permanent Seeding Installation

Following the preparation of the seedbed, perform permanent seeding per the seeding Tables and apply an appropriate Mulch within 5 working days and/or prior to a rainfall event that compacts the prepared seedbed. If a rain event occurs that compacts or erodes the seedbed prior to performing permanent seeding, the seedbed must be re-prepared prior to conducting permanent seeding. Add fertilizer and lime as required by a soil test.

Sod

Initiate Sod applications within 7 calendar days where land disturbing activities have permanently ceased on the Project. Initiate Sod applications measures as soon as practicable for areas where initiating Sod applications within 7 days is infeasible (e.g., where snow cover, frozen ground, or drought conditions preclude stabilization). Use Sod on slopes less than 2H:1V.

Acceptance of Sod

Acceptance is contingent on establishing a satisfactory stand of perennial grass. Sod application areas are acceptable when all requirements including maintenance are met and a healthy, evenly colored, viable stand of grass is established. A satisfactory stand of grass must have a root system that is sufficient to survive dry periods and winter weather and is capable of re-establishing in the spring.

Project Number: 2015-096
DWG Name: 2015-096 Details.dwg
Drawing Scale: as noted
Date of Project: November 2015
Engineer of Record:
Lynn A. Solesbee, P.E.
South Carolina PE# 15571
North Carolina PE# 030285

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Certificates of Authorization:
SC C04212 · GA PEF005865
NC P0868 · AL CA-0065E

CAMP SPEARHEAD - PHASE II
Cherokee Foothills Scenic Hwy. (SC-11), Marietta
Greenville County, SC

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 15571 LYNN ALAN SOLESBEE

SOUTH CAROLINA BLUEWATER CIVIL DESIGN, LLC No. C04212 CERTIFICATE OF AUTHORIZATION

PLAN REVISION	ISSUE DATE	ISSUE COMMENT
A	06-01-16	Issued for Bids
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SITEWORK NOTES & DETAILS

C501

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Greenville County Standard Notes

Seeding Dates and Rates of Application

Perform seeding during the periods and at the rates specified in the seeding tables. Do not use temporary cover by seeding or permanent seeding for projects when:

- The ground is frozen and/or when the 10–day forecasted low temperature remains below 35 degrees Fahrenheit;
- The ground is excessively wet; or
- The ground is excessively dry (periods of drought) unless watering is specified.

During periods of adverse conditions, use temporary cover by mulch.

Seedbed Preparation

- Ensure that the areas receiving permanent seeding are uniform and conform to the finished grade of the Project.
- Perform minor shaping and evening of uneven and rough areas outside of the graded area in order to provide for more effective erosion control and for ease of subsequent mowing operations.
- Loosen the seedbed (including cut slopes) to a minimum depth of three (3) inches before initiating permanent seeding and temporary seeding.
- An acceptable method of preparing the seedbed on slopes is vertically tracking the seedbed up and seedbed up and down the slope with proper equipment.
- Remove stones larger than two and one–half (2½) inches in any dimension, large dirt clods, roots, or other debris brought to the surface.
- Use compost if good seedbed material is not located on site or results of the soil test show the seedbed is excessively nutrient deficient to the extent of requiring costly fertilizer additions and or have excessively low pH values (lower than 5.0).
- Consider the use of mechanical seed drills to perform permanent seeding on areas where temporary seeding or temporary cover by mulch was previously utilized.

Mulch

Required for all permanent seeding, temporary seeding, and temporary cover applications. Do not use Mulch in areas where concentrated flow is expected. Use HECP Mulch for temporary seeding and temporary cover applications when the application area will require additional grading prior to permanent seeding. Do not use Erosion Control Blankets (ECB) or Turf Reinforcement Matting (TRM) in this situation.

Wood Chip Mulch

Wood chip mulch is not acceptable for seeding applications. If wood chip mulch is used for temporary cover by mulch, it must be removed prior to performing permanent seeding

Straw or Hay Mulch with Tackifier

Use material that is certified weed. Do not use on slopes steeper than 4H:1V. Anchor using one of the following tacking agents:

- Organic or Chemical Tackifier
- Hydraulic Straw Tackifiers
- Emulsified Asphalt
-

Applying Straw or Hay Mulch

Uniformly apply material at the rate of 2,000 pounds per acre.

Compost Mulch

Only use from producer that participates in the USCC STA program. Do not use materials that have been treated with chemical preservatives as a compost mulch. Do not use mixed municipal solid waste compost.

Hydraulic Erosion Control Products (HECPs)

Use as an allowable mulch for temporary cover by mulch, temporary cover by seeding or permanent cover by seeding applications. Do not use as a channel liner or for areas receiving concentrated flow.

Temporary Erosion Control Blankets (ECB) and Turf Reinforcement Matting (TRM)

Consider for permanent seeding application areas with steep slopes or areas where there is a significant erosion problem or potential for erosion. Use in areas where concentrated flow is expected. Do not use for temporary seeding applications when the application areas will require additional grading or modifications prior to permanent seeding.

Protection of Structures

Cover any parts of bridges, culverts, guardrails, signs, sidewalks, curb and gutters, catch basins, pipe ends, and other structures as necessary to prevent discoloration before spraying HECPs, organic or chemical tackifiers.

Sod

Do not use sodding on slopes steeper than 2H:1V, and if sodding is mowed, do not place on slopes greater than 3H:1V. Install Warm Season Sod between March 1st and September 1st. Install Cool Season Sod anytime during the year as long as the soil is not frozen. Do not place Sod on:

- Soil that is frozen and/or when the 10–day forecasted low temperature remains below 35 degrees Fahrenheit;
- Soil that is excessively wet;
- Soil that is excessively dry (periods of heat or drought) unless watering is specified;
- Soil that is composed of compacted clay; and
- Soil than has been treated with pesticides.

Sod Bed Preparation

- Ensure the Sod bed is uniform and conforms to the finished grade of the Project.
- Loosen the Sod Bed to a minimum depth of 3 inches before placing Sod.
- Furnish and place topsoil or compost in the Sod Bed in areas where the existing Sod Bed has little or no topsoil,
- Lay Sod when Sod Bed is moist. Moisten dry Sod Beds before sod is laid.

Sod Material

Provide Sod with living, well–established growth, with a dense root mat of predominant grass Specified. Provide vigorous, well rooted, healthy turf, free from disease, insect pests, weeds, other grasses, stones, and any other harmful or detrimental materials.

Sod Installations

Ensure Sod is not installed until the end of the project or when final stabilization is achieved on adjacent areas of the project that drain or discharge to the Sod application.

Fertilizer

Granular Fertilizer

Use for all permanent seeding applications and all Sodding applications. Proper mixture is dependent on the existing soil conditions and it is recommended that a soil analysis be performed if the soil conditions are uncertain in the area of fertilizer application.

Use fertilizer that incorporates a minimum of 50% water insoluble (slow release) nitrogen. Animal by–product or municipal waste fertilizers are not acceptable under this Specification.

Unless a soil analysis is performed to determine otherwise, a good rule of thumb granular fertilizer to apply in the Upstate of South Carolina is 10–10–10. In no case should a 20–20–20 fertilizer be used due to the potential burning of the seedbed.

Compost Soil Amendment

For seedbeds that have little or no topsoil, are highly acidic, or are lacking sufficient nutrients to sustain a health stand of grass place, and mix certified weed free compost into the seedbed to ensure a good stand of grass.

Biological Growth Stimulant

Use for all permanent seeding, Sodding, and temporary seeding applications. Animal by–products or municipal waste products are not acceptable. Liquid fertilizers are not acceptable, and can cause burning of the seedbed if applied as such.

Slope Interruption Devices

The maximum allowable continuous slope length for straw or hay mulch, HECPs, compost and ECB applications is 50 feet. Slope interruption devices (such as sediment tubes) or TRMs are required for continuous slope length longer than 50 feet.

Inspection

Ensure that all seed, Sod, fast acting lime, biological growth stimulants, agricultural granular lime, granular fertilizer, straw and hay mulch, HECPs, compost mulch, and ECBs are applied as Specified. The Design Engineer or Landscape Architect, or member of the Design Engineer or Landscape Architect staff must document on–site that these materials are applied correctly by completing and signing proper forms.

Maintenance

Perform all maintenance necessary to keep Stabilization areas in a satisfactory condition until the work is finally accepted. This includes mowing, repairing areas of erosion and washes, and applying additional seed, fertilizer, and mulch to areas where a satisfactory stand of grass has not been achieved.

Mowing

Mow road shoulders and medians when vegetation reaches a height of approximately 18 to 24 inches. Do not perform excessive mowing of Slopes resulting in ruts, furrows or grooves. Do not perform excessive mowing of Slopes that inhibits the establishment of the slope vegetation.Do not perform mowing when soil and weather conditions are such that rutting or other damage to the Project may occur.

Ensure mowing results in a uniform vegetation height of 4 to 6 inches, unless otherwise directed. When utilizing a nurse crop for permanent seeding, mow Millet (no lower than 3 inches) once it reaches a height of 18 inches to reduce competitiveness with the permanent vegetation. Mow Wheat and Rye Grain (no lower than 3 inches) once they reach a height of 6–8 inches to reduce competitiveness with permanent vegetation.

TABLE 2: MULCH APPLICATIONS

Mulch	Applicable Slopes (H:V)[1]	Minimum Application Rate (lbs/acre -dry)[2]
Wood Chip	≤ 4:1	500 CY/acre
Straw or Hay with Tackifier	≤ 4:1	2,000
HECP Type 1	≤ 4:1	2,000
HECP Type 2	4:1< S ≤ 3:1	2,500
HECP Type 3	3:1< S ≤ 2:1	3,000
HECP Type 4	2:1< S ≤ 1:1	3,500
	>1:1	4,000 (temp cover only)[3]
Compost Mulch	≤ 2:1	200 CY/acre

1 The maximum allowable continuous slope length for all mulch applications is 50 feet. Slope interruption devices or TRMs are required for continuous slope length longer than 50 feet.

2 Strictly comply with the manufacturer's mixing recommendations for the actual slope steepness and the actual continuous slope length of the application.

3 HECP Type 4 may be used for permanent cover applications on slopes 1:1 or greater at a minimum rate of 4,500 pounds per acre.

TABLE 3: ECB and TRM APPLICATIONS

ECB/TRM Type[1]	Slope (H:V)[2]	Minimum Slope Length (ft)
Temporary ECB or Type 1 TRM	≤ 2:1	5
Type 2 TRM	≤ 1.5:1	5
Type 3 TRM	≤ 1:1	5

1 Strictly comply with the manufacturer's specifications.

2 The maximum allowable continuous slope length for ECBs is 50 feet. Slope interruption devices or TRMs are required for continuous slope length longer than 50 feet.

Amendments

Lime

Agricultural Granular Lime

Use agricultural grade, standard ground limestone for all permanent seeding applications and Sodding applications.

Applying Granular Lime

A soil analysis is recommended prior to application. Apply at a rate within ±10% of weight recommendation of soil analysis. Do not apply more than 2,500 lbs/acre of in a single application.

Fast Acting Lime

Use fast acting liquid and/or dry forms of lime for all temporary seeding and permanent seeding applications.

Non Slope Areas

Spring / Summer Non Slope Areas (during establishment, mow when Millet reaches 18-inches in height)

Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
Common Bermudagrass[1] (hulled = hull absent)	*Cynodon dactylon*	50	1.15				●	●	●	●						Long-lived, warm season perennial, grows 4-6 inches tall. High heat tolerance, salt tolerant, high nitrogen requirement.
White Clover	*Trifolium repens*	5	0.11			●	●				●					Grows to 1 foot tall. Full sun, low drought tolerance. Good erosion control cover.
Browntop Millet	*Panicum ramosum*	10	0.23				●	●	●	●	●					Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance, high salt tolerance.

Fall / Winter Non Slope Areas (during establishment, mow when Rye reaches 6 to 8-inches in height)

Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
Tall Fescue (KY-31)	*Festuca arundinacea*	50	1.15	●	●	●	●					●	●	●	●	Bunch-type grass, grows 2-4 feet tall. Full sun to part shade. Good heat and drought tolerance as well as shade tolerance. Tolerant to marginal, acidic, and poorly drained soils and in areas of low fertility.
Common Bermudagrass[1] (unhulled = hull present)	*Cynodon dactylon*	15	0.34	●	●	●						●	●	●	●	Long-lived, warm season perennial, grows 4-6 inches tall. High heat tolerance, salt tolerant, high nitrogen requirement.
White Clover	*Trifolium repens*	5	0.11		●	●	●					●	●	●		Grows to 1 foot tall. Full sun, low drought tolerance, low salt tolerance. Good erosion control cover.
Crimson Clover[2]	*Trifolium incarnatum*	20	0.46	●	●	●	●					●	●	●	●	Upright winter legume, grows from 1-3 feet tall. Full sun, low drought tolerance, no salt tolerance.
Rye Grain[3]	*Secale cereale*	15	0.34	●	●	●	●					●	●	●	●	Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance, high salt tolerance.

[1] Common Bermudagrass: Do not use Giant Bermudagrass(NK-37).
[2] Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting.
[3] Mow Rye Grain (no lower than 3 inches) once it reaches a height of 6-8 inches to reduce competitiveness with permanent vegetation.
[4] If the Common Name of the seed listed in the Tables is not available, use seed with the listed Botanical Name.

Road Medians & Shoulders

Spring / Summer Road Median & Shoulders (during establishment, mow when Millet reaches 18-inches in height)

Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
Common Bermudagrass[1] (hulled = hull absent)	*Cynodon dactylon*	25	0.57				●	●	●	●						Long-lived, warm season perennial, grows 4-6 inches tall. High heat tolerance, salt tolerant, high nitrogen requirement.
Browntop Millet	*Panicum ramosum*	10	0.23				●	●	●	●	●					Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance, high salt tolerance.

Fall / Winter Road Median & Shoulders (during establishment, mow when Rye reaches 6 to 8-inches in height)

Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
Tall Fescue (KY-31)	*Festuca arunincacea*	50	1.15	●	●	●	●					●	●	●	●	Bunch-type grass, grows 2-4 feet tall. Full sun to part shade. Good heat and drought tolerance as well as shade tolerance. Tolerant to marginal, acidic, and poorly drained soils and in areas of low fertility.
Common Bermudagrass[1] (unhulled = hull present)	*Cynodon dactylon*	15	0.34	●	●	●						●	●	●	●	Long-lived, warm season perennial, spreads by rhizomes/stolons seed, grows 4-6 inches tall. High heat tolerance, salt tolerant, high nitrogen requirement.
Crimson Clover[2]	*Trfolium incarnatum*	20	0.46	●	●	●						●	●	●	●	Upright winter legume, grows from 1-3 feet tall. Full sun, low drought tolerance, no salt tolerance.
Rye Grain[3]	*Secale cereale*	15	0.34	●	●	●						●	●	●	●	Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance, high salt tolerance.

[1] Common Bermudagrass: Do not use Giant Bermudagrass(NK-37).
[2] Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting.
[3] Mow Rye Grain (no lower than 3 inches) once it reaches a height of 6-8 inches to reduce competitiveness with permanent vegetation.
[4] If the Common Name of the seed listed in the Tables is not available, use seed with the listed Botanical Name.

Slopes & Buffers

Spring / Summer Slopes (during establishment, mow when Millet reaches 18-inches in height. After establishment, only mow at end of winter season)

	Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
Pick 1	Tall Fescue (KY-31)	*Festuca aruninacea*	50	1.15			●	●									Bunch-type grass, grows 2-4 feet tall. Full sun to part shade. Good heat and drought tolerance as well as shade tolerance. Tolerant to marginal, acidic, and poorly drained soils and in areas of low fertility.
	Bahiagrass	*Paspalum notatum*	30	0.69			●	●	●	●	●						Warm season perennial, spreads by rhizomes, grows 1-2 feet tall, deep root system. Shade tolerant, salt tolerant, drought tolerant. Low maintenance, tough grass surviving conditions that destroy most turf grasses. Adapts to most soil conditions and extremely tolerant to wear and traffic.
	Common Bermudagrass[1] (hulled = hull absent)	*Cynodon dactylon*	15	0.34				●	●	●	●						Long-lived, warm season perennial, grows 4-6 inches tall. High heat tolerance, high nitrogen requirement.
	White Clover	*Trifolium repens*	5	0.11			●	●				●					Warm season bunch grass, deep root system, grows 3-6 feet tall. Full sun, high drought tolerance.
	Weeping Lovegrass	*Erograstis curvula*	5	0.11			●	●	●	●	●	●					Warm season bunch grass, grows 3 feet tall. Full sun, high drought tolerance. Plant at 10%-20% of mix.
	Hairy Vetch[2]	*Vicia villosa*	10	0.23				●									Cool season biennial or annual legume. Viney, trailing or climbing growth. Wide range of soil types, best adapted to loamy and sandy soils.
	Browntop Millet	*Panicum ramosum*	10	0.23				●	●	●	●	●					Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance.

Fall / Winter Slopes (during establishment, mow when Rye reaches 6 to 8-inches in height. After establishment, only mow at end of winter season)

	Common Name[4]	Botanical Name	Planting Rate (lbs/acre)	Planting Rate (lbs/1000sf)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Characteristics
	Tall Fescue (KY-31)	*Festuca aruninacea*	50	1.15	●	●	●						●	●	●	●	Bunch-type grass, grows 2-4 feet tall. Full sun to part shade. Good heat and drought tolerance as well as shade tolerance. Tolerant to marginal, acidic, and poorly drained soils and in areas of low fertility.
	Common Bermudagrass[1] (unhulled = hull present)	*Cynodon dactylon*	15	0.34	●	●	●						●	●	●	●	Long-lived, warm season perennial, grows 4-6 inches tall. High heat tolerance, high nitrogen requirement.
	White Clover[2]	*Trifolium repens*	5	0.11		●	●						●	●	●		Grows to 1 foot tall. Full sun, low drought tolerance, low salt tolerance. Good erosion control cover.
	Weeping Lovegrass	*Erograstis curvula*	5	0.11	●	●	●						●	●	●	●	Warm season bunch grass, grows 3 feet tall. Full sun, high drought tolerance.
Pick 1	Crimson Clover[2]	*Trfolium incarnatum*	20	0.46	●	●	●						●	●	●	●	Upright winter legume, grows from 1-3 feet tall. Full sun, low drought tolerance, no salt tolerance.
	Hairy Vetch[2]	*Vicia villosa*	10	0.23	●	●	●						●	●	●	●	Cool season biennial or annual legume. Viney, trailing or climbing growth. Wide range of soil types, best adapted to loamy and sandy soils.
	Rye Grain[3]	*Secale cereale*	15	0.34	●	●	●						●	●	●	●	Bunch type grain, grows 2-5 feet tall. Full sun, moderate drought tolerance, high salt tolerance.

[1] Common Bermudagrass: Do not use Giant Bermudagrass(NK-37).
[2] Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting.
[3] Mow Rye Grain (no lower than 3 inches) once it reaches a height of 6-8 inches to reduce competitiveness with permanent vegetation.
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Project Number: 2015-096
DWG Name: 2015-096 Details.dwg
Drawing Scale: as noted
Date of Project: November 2015
Engineer of Record:

Lynn A. Solesbee, P.E.
South Carolina PE# 15571
North Carolina PE# 030285

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Certificates of Authorization:
SC C04212 · GA PEF005865
NC P0868 · AL CA4065E

CAMP SPEARHEAD - PHASE II
Cherokee Foothills Scenic Hwy. (SC-11), Marietta
Greenville County, SC

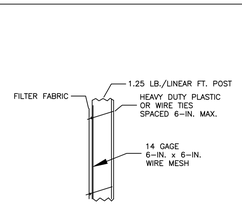
SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 15571 LYNN ALAN SOLESBEE

SOUTH CAROLINA BLUEWATER CIVIL DESIGN, LLC No. C04212 CERTIFICATE OF AUTHORIZATION

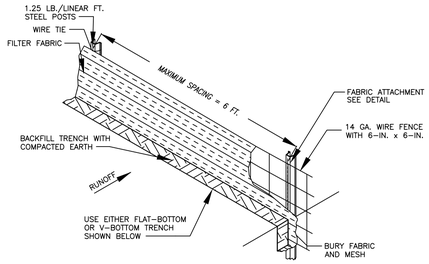
PLAN REVISION	ISSUE DATE	ISSUE COMMENT
A	06-01-16	Issued for Bids

SITEWORK NOTES & DETAILS

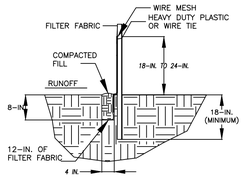
C502



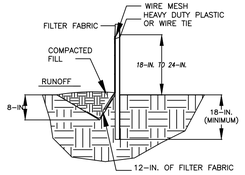
FABRIC ATTACHMENT DETAIL



SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL

Greenville County
Storm Water Management

REINFORCED SILT FENCE

STANDARD DRAWING NO. SC-03B

APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT — DATE: January, 2013

SILT FENCE - POST REQUIREMENTS

1. Silt Fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics.
   - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
   - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
   - Weigh 1.25 pounds per foot (± 8%)
2. Posts shall be equipped with projections to aid in fastening of filter fabric.
3. Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
4. Install posts to a minimum of 24-inches. A minimum height of 1- to 2-inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
5. Post spacing shall be at a maximum of 6-feet on center.

SILT FENCE - FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
   - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
   - Free of any treatment or coating which might adversely alter its physical properties after installation;
   - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
   - Have a minimum width of 36-inches.
2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
3. 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
5. Filter Fabric shall be installed at a minimum of 24-inches above the ground.

SILT FENCE - INSPECTION & MAINTENANCE

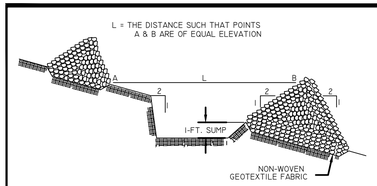
1. The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence, as necessary.
7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
8. Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

South Carolina Department of Health and Environmental Control

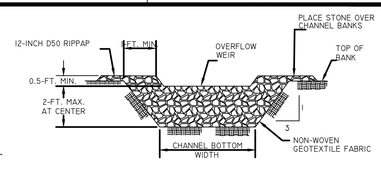
SILT FENCE

STANDARD DRAWING NO. SC-03 PAGE 2 of 2

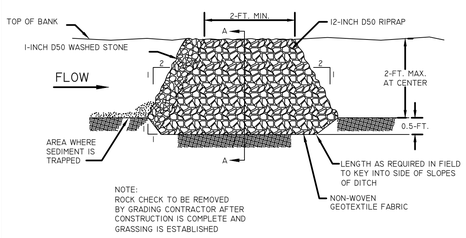
GENERAL NOTES — DATE: FEBRUARY 2014



SPACING BETWEEN DITCH CHECK



CROSS SECTION A-A THRU STONE DITCH CHECK



TYPICAL DITCH CHECK SECTION

Greenville County
Storm Water Management

ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04

APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT — DATE: January, 2013

ROCK DITCH CHECK - GENERAL NOTES

1. Rock Ditch Checks should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).
2. Rock Ditch Checks should be installed in steeply sloped channels where adequate vegetation cannot be established. This BMP measure should only be used in small open channels.
3. A non-woven geotextile fabric shall be installed over the soil surface where the rock ditch check is to be placed.
4. The body of the rock ditch check shall be composed of 12-inch D50 Riprap. The upstream face may be composed of 1-inch D50 washed stone.
5. Rock Ditch Checks should not exceed a height of 2-feet at the centerline of the channel.
6. Rock Ditch Checks should have a minimum top flow length of 2-feet.
7. Riprap should be placed over channel banks to prevent water from cutting around the ditch check.
8. The riprap should be placed by hand or mechanical placement (no dumping of rock to form dam) to achieve complete coverage of the channel. Doing so will also ensure that the center of the check is lower than the edges.
9. The maximum spacing between the dams should be such that the toe of the upstream check is at the same elevation as the top of the downstream check.

ROCK DITCH CHECK - INSPECTION & MAINTENANCE

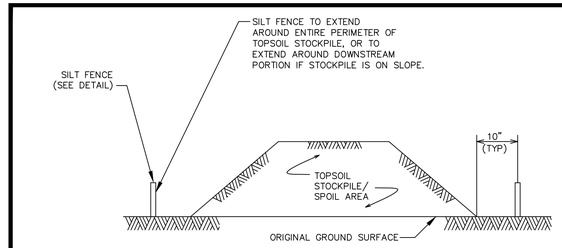
1. The key to functional rock ditch check is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of rock ditch checks shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the rock ditch check is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the rock ditch check.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Inspect Rock Ditch Checks' edges for erosion and evidence of runoff bypassing the installed check. If evident repair promptly as necessary to prevent erosion and bypassing.
7. In the case of grass-lined ditches, channels, and swales, rock ditch checks should be removed when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4%.
8. After construction is completed and final stabilization is reached, the entirety of the rock ditch check should be removed if vegetation will be used for permanent erosion control measures. The area beneath the removed rock ditch check must be addressed with permanent stabilization measures.

South Carolina Department of Health and Environmental Control

ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04 PAGE 2 of 2

GENERAL NOTES — DATE: FEBRUARY 2014

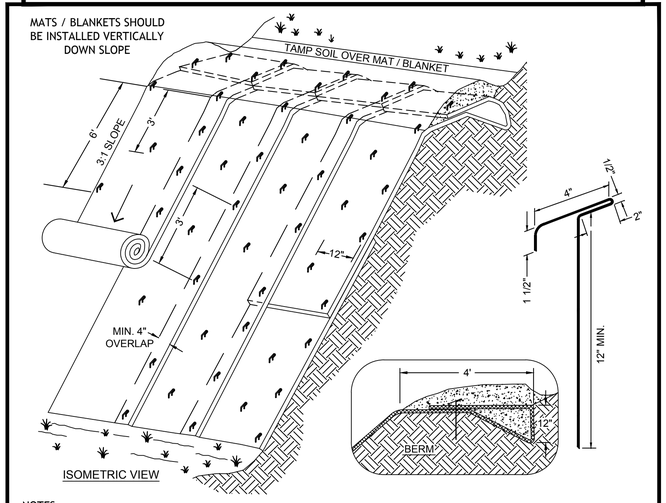


NOTES:

1. AN ON-SITE DRAINAGE SWALE SHALL BE LOCATED BETWEEN THE TOPSOIL STOCKPILE AND OFF-SITE PROPERTY.
2. IF THE STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, IT SHALL BE STABILIZED PER SEEDING SPECIFICATIONS.
3. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF HALF INCH (1/2 ") PER DAY. REPAIR OR REPLACEMENT OF SILT FENCE SHALL BE MADE PROMPTLY AS NEEDED.
4. SEDIMENT TRAPPED BY THE SILT FENCES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SEDIMENT ACCUMULATION DEPTH AT THE SILT FENCE IS APPROXIMATELY EQUAL TO TWELVE (12) INCHES (ONE-HALF OF SILT FENCE HEIGHT).
5. SILT FENCES SHALL BE MAINTAINED IN PLACE UNTIL TOPSOIL STOCKPILE HAS BEEN ELIMINATED AND SHALL BE REMOVED ONLY WHEN DIRECTED BY OWNER OR SITE ENGINEER.

TEMPORARY STOCKPILE DETAIL

(NOT TO SCALE)



NOTES:

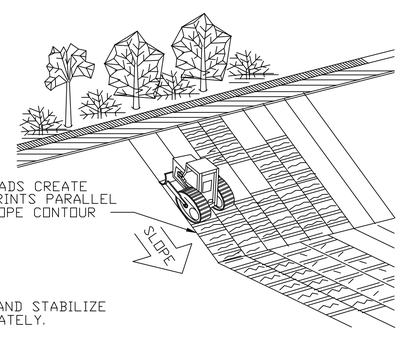
1. SLOPE SURFACE SHALL BE FREE OF ROCKS CLODS, STICKS AND GRASS. MATS / BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

SLOPE STABILIZATION AS NOTED ON PLANS
USE WESTERN EXCELSIOR MATTING
(R-1, ALL NATURAL)
TEL. 1-800-833-8573, TYP.

- TYPICAL SECTION -

TYPICAL SLOPE STABILIZATION DETAIL

NTS



TRACKING

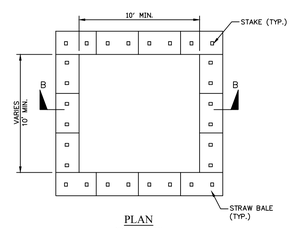
Greenville County
Storm Water Management

Tracking

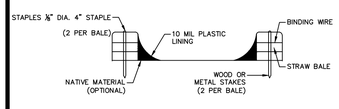
STANDARD DRAWING NO. EC-01A

APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT — DATE: January 2013

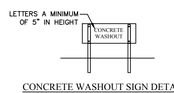
STRAW BALE BARRIER CONCRETE WASHOUT



PLAN
NOT TO SCALE
TYPE "ABOVE GRADE" WITH STRAW BALES

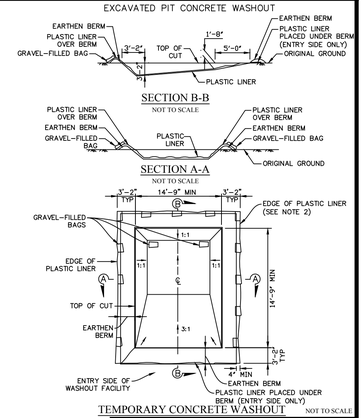


SECTION B-B
NOT TO SCALE



CONCRETE WASHOUT SIGN DETAIL
NOT TO SCALE

EXCAVATED PIT CONCRETE WASHOUT



TEMPORARY CONCRETE WASHOUT — NOT TO SCALE

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.

Greenville County
Storm Water Management

CONCRETE WASHOUT DETAIL

STANDARD DRAWING NO. SC-14

APPROVED BY: GREENVILLE COUNTY STORM WATER MANAGEMENT — DATE: January 2013

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Project Number: 2015-096
DWG Name: 2015-096 Details.dwg
Drawing Scale: as noted
Date of Project: November 2015
Engineer of Record:

Lynn A. Solesbee, P.E.
South Carolina PE# 15571
North Carolina PE# 030285

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19 Washington Park Suite 100 • Greenville, SC 29601
www.bluewatercivil.com • info@bluewatercivil.com

Certificates of Authorization:
SC C04212 · GA PEF005865
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CAMP SPEARHEAD - PHASE II

Cherokee Foothills Scenic Hwy. (SC-11), Marietta
Greenville County, SC

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 15571 — LYNN ALAN SOLESBEE

SOUTH CAROLINA — BLUEWATER CIVIL DESIGN, LLC — No. C04212 — CERTIFICATE OF AUTHORIZATION

PLAN REVISION	ISSUE DATE	ISSUE COMMENT
A	06-01-16	Issued for Bids
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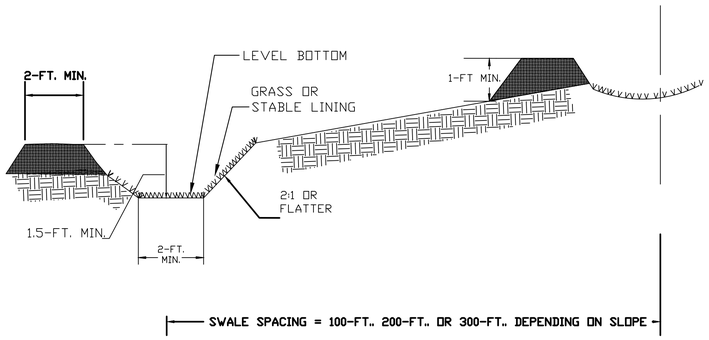
SITEWORK NOTES & DETAILS

C503



South Carolina Department of Health and Environmental Control

DIVERSION SWALE

STANDARD DRAWING NO. RC-03 Page 1 of 2

NOT TO SCALE — JULY 31, 2005 DATE

DIVERSION SWALE

Installation

The bottom width should be a minimum of 2-feet, and the bottom should be level.

The depth should be a minimum of 1.5-feet and the side slopes should be 2H:1V or flatter.

The maximum grade shall be 5%, with positive drainage to a suitable outlet.

Slopes shall be stabilized immediately using vegetation, sod, and erosion control blankets or turf reinforcement mats to prevent erosion.

The upslope side of the swale should provide positive drainage so no erosion occurs at the outlet. Provide energy dissipation measures as necessary.

Sediment-laden runoff shall be directed to a sediment trapping facility.

Inspection and Maintenance:

Swales should be inspected, every seven (7) calendar days and within 24-hours after each rainfall event that produces ½-inches or more of precipitation and repairs made as necessary.

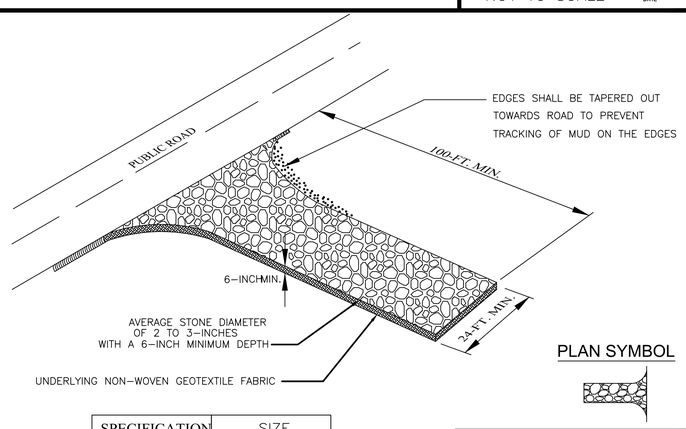
Damage caused by construction traffic or other activity must be repaired before the end of each working day.

South Carolina Department of Health and Environmental Control

DIVERSION SWALE

STANDARD DRAWING NO. RC-03 PAGE 2 of 2

GENERAL NOTES — JULY 31, 2005 DATE



PLAN SYMBOL

SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 1 of 2

NOT TO SCALE — FEBRUARY 2014 DATE

CONSTRUCTION ENTRANCE - GENERAL NOTES

1. Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
2. Install a non-woven geotextile fabric prior to placing any stone.
3. Install a culvert pipe across the entrance when needed to provide positive drainage.
4. The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
5. Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
6. The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
8. Limestone may not be used for the stone pad.

CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

1. The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
3. During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
4. Reshape the stone pad as necessary for drainage and runoff control.
5. Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
6. Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
7. During maintenance activities, any broken pavement should be repaired immediately.
8. Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

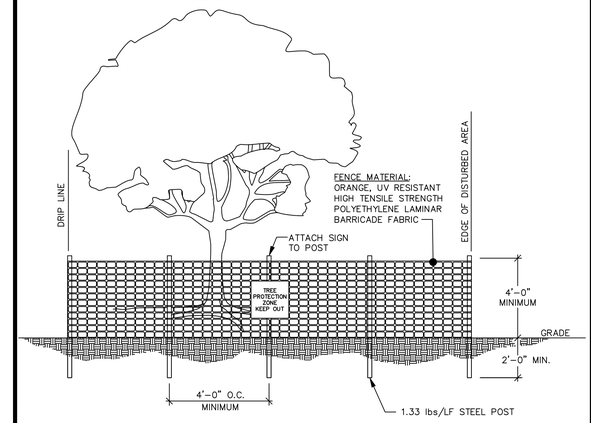
South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

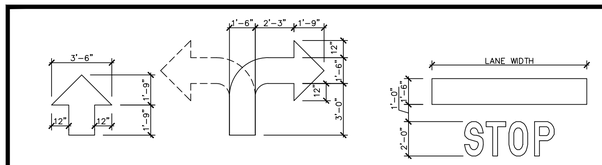
STANDARD DRAWING NO. SC-06 PAGE 2 of 2

GENERAL NOTES — FEBRUARY 2014 DATE

NOTES:
1. ALL PLANTS DESIGNATED TO BE SAVED SHALL BE PROTECTED BY FENCING, AS ILLUSTRATED.
2. INSTALL TREE PROTECTION FENCE AT TREE DRIP LINE OR AT EDGE OF DISTURBED AREA, AS SHOWN ON PLANS, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. SPACE TREE PROTECTION ZONE SIGNS A MINIMUM OF ONE EVERY 300 FEET. THE SIZE OF EACH SIGN MUST BE A MINIMUM OF 2' x 2' AND BE VISIBLE FROM BOTH SIDES OF THE FENCE. THE SIGN MUST CONTAIN THE FOLLOWING LANGUAGE IN BOTH ENGLISH & SPANISH: "TREE PROTECTION ZONE, KEEP OUT".
3. THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE BOUNDARIES OF THE TREE PROTECTION FENCING.
4. TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.



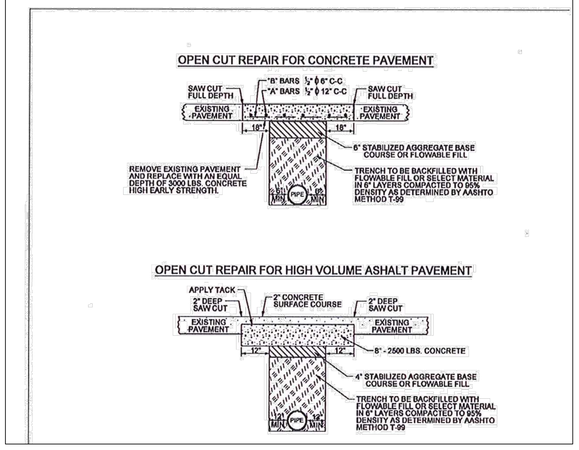
TREE PROTECTION FENCE
N.T.S.



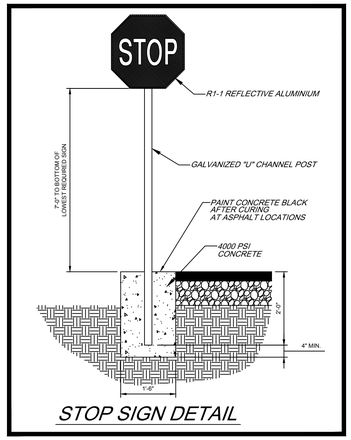
NOTES:
1. PAINT COLOR TO BE "YELLOW" FOR ARROW AND LETTERS. "STOP" LETTERS TO BE ELONGATED HELEVETICA MEDIUM - 4" WIDE STROKES.
2. PAINT 2" BLACK OUTLINE AROUND ARROW AND LETTERS FOR PROJECTS WITH CONCRETE PARKING LOTS.

PAVEMENT PAINTING
NOT TO SCALE

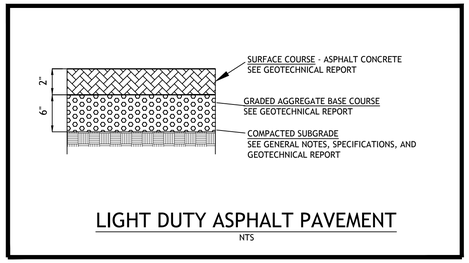
Appendix B: Pipelines
Figure 4 – Pavement Repairs



SCDOT OPEN CUT DETAIL



STOP SIGN DETAIL



LIGHT DUTY ASPHALT PAVEMENT
NTS

Project Number: 2015-096
DWG Name: 2015-096 Details.dwg
Drawing Scale: as noted
Date of Project: November 2015
Engineer of Record:

Lynn A. Solesbee, P.E.
South Carolina PE# 15571
North Carolina PE# 030285

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SOUTH CAROLINA BLUEWATER CIVIL DESIGN, LLC No. C04212 CERTIFICATE OF AUTHORIZATION

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SITEWORK NOTES & DETAILS

C504

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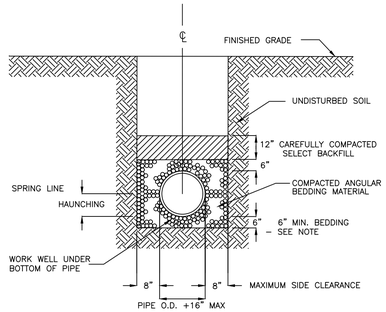
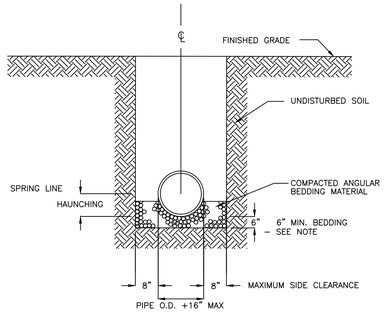


CLASS B–1
PVC BEDDING



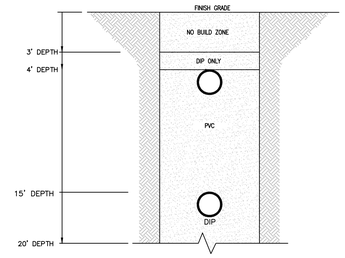
CLASS C–2
DIP BEDDING
VCP BEDDING

NOTES:

1. WET OR UNSTABLE BOTTOMS, EXCAVATE MIN. 6" BELOW BELL. BACKFILL WITH WASHED CRUSHED STONE.
2. ROCK BOTTOMS, EXCAVTE MIN. 6" BELOW BELL. BACKFILL WITH WASHED CRUSHED STONE.
3. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
4. NO ROCKS OR BOULDERS 6" OR LARGER TO BE USED IN BACKFILL.
5. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL, EXCEPT AS NOTED.
6. BACKFILL SHALL BE TAMPED IN 6" LAYERS IN TRAFFIC AREAS, 12" IN NON–TRAFFIC AREAS.

TYPICAL PIPE BEDDING DETAILS

NO SCALE



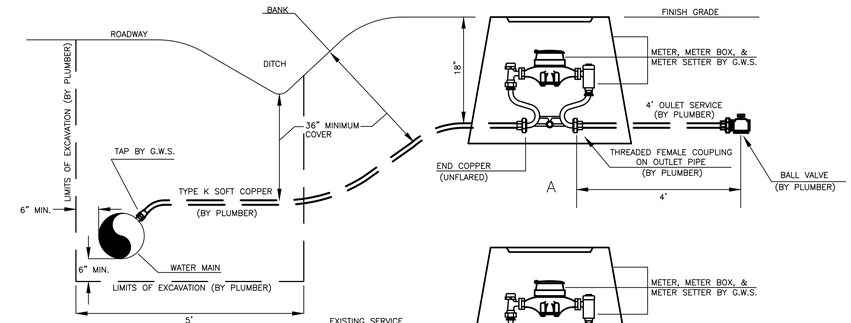
NOTE:

1. COVER DEPTH SHALL BE MEASURED FROM FINISHED GRADE SURFACE TO THE TOP OF PIPE.
2. INSTALLATIONS DEEPER THAN 20 FEET REQUIRE DUCTILE IRON PIPE (DIP) AND PRIOR APPROVAL BY THE CITY ENGINEER. BURIAL DEPTHS LESS THAN 3.0 FEET WILL NOT BE PERMITTED.
3. POLYVINYL CHLORIDE (PVC) SEWER PIPE SHALL BE SDR 26 OR SDR 35 MEETING ASTM D3034 FOR 4" TO 15" DIAMETER PIPE OR ASTM F679 FOR 18" TO 36" DIAMETER PIPE. PIPE SHALL BE MADE FROM PVC COMPOUNDS HAVING A CELL CLASSIFICATION OF 124548 AS DEFINED IN ASTM D1784. PIPE SHALL INCORPORATE AN INTEGRAL BELL JOINT WITH A SINGLE RUBBER GASKET CONFORMING TO ASTM F477. JOINTS SHALL BE IN ACCORDANCE WITH ASTM D3212, AND BE FURNISHED COMPLETE WITH ALL NECESSARY ACCESSORIES. PIPE, FITTINGS AND ACCESSORIES SHALL BE IN CONFORMANCE WITH CITY SPECIFICATIONS.
4. DIP SEWER PIPE SHALL BE ASPHALT COATED CEMENT MORTAR LINED CLASS 50 DUCTILE IRON PIPE. DIP SHALL BE PRESSURE CLASS 150. DIP SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C150/A21.50 AND C151/A21.51. PIPE SHALL HAVE A STANDARD 1–MIL ASPHALTIC COATING APPLIED ON THE EXTERIOR OF THE PIPE IN ACCORDANCE WITH ANSI/AWWA C151/A21.51. PIPE SHALL ALSO HAVE A CEMENT–MORTAR LINING ON THE INTERIOR IN ACCORDANCE WITH ANSI/AWWA C104/A21.4. ALL PIPE SHALL BE FURNISHED WITH PUSH–ON TYPE JOINTS, SUCH AS TYTON® OR FASTITE®. JOINTS SHALL BE IN ACCORDANCE WITH ANSI/AWWA C111/A21.11, AND BE FURNISHED COMPLETE WITH ALL NECESSARY ACCESSORIES. PIPE, FITTINGS AND ACCESSORIES SHALL BE IN CONFORMANCE WITH CITY SPECIFICATIONS.
5. WHEN SOIL TESTS IN ACCORDANCE WITH APPENDIX A OF ANSI/AWWA C105/A21.5 AND/OR PERFORMANCE HISTORY INDICATE THAT CONDITIONS ARE CORROSIVE TO DIP, POSITIVE CORROSION PROTECTION IS REQUIRED IN ACCORDANCE WITH CITY SPECIFICATIONS.
6. WHEN DIP IS USED TO TRANSPORT SEPTIC SEWAGE, SPECIALLY LINED PIPE IS REQUIRED IN ACCORDANCE WITH CITY SPECIFICATIONS.

- TYPICAL DETAIL -

ALLOWABLE PIPE MATERIAL AND DEPTHS

NTS



METER SIZE		5/8"	1"
SPACE NEEDED BETWEEN FACE OF CHECK VALVE AND END OF UNFLARED COPPER	A	7 1/4"	10 3/4"
SPACE NEEDED BETWEEN FACE OF CHECK VALVE AND FACE OF EXISTION CURB STOP	B	8 3/4"	12 1/2"

- ALL EXCAVATION TO BE DONE BY PLUMBER.
- APPROXIMATE SIZE OF HOLE WHERE TAP IS MADE IS 5' X 5' (6" BEHIND AND UNDER MAIN). HOLE TO BE WIDER AND SHORED WHEN MAIN IS DEEPER THAN 5'.
- HOLE FOR METER BOX TO BE 3' X 3' X 21" DEEP.
- SERVICE LINE MUST HAVE 36" COVER (MIN.) UNDER ROADSIDE DITCH.
- METER NOT TO BE PLACED IN DRIVEWAY.
- OSHA APPROVED LADDER TO BE PROVIDED BY CONTRACTOR IN EXCAVATION DEEPER THAN 5'.
- PLUMBER SHOULD CALL G.W.S. ENGINEERING (241–6100) TO REPORT WHEN READY FOR METER TO BE SET OR FOR ASSISTANCE IF UNUSUAL CONDITIONS EXIST.
- OUTLET PIPING CONSISTING OF THREADED FEMALE COUPLING, 4' OF OUTLET SERVICE PIPE, AND BALL VALVE TO BE ASSEMBLED BY PLUMBER AND READY FOR INSTALLATION PRIOR TO GWS ARRIVAL TO SITE.

Greenville Water System

TYPICAL METER INSTALLATION

EFFECTIVE DATE: OCTOBER 31, 1977
REVISED DATE: JANUARY 1, 2007
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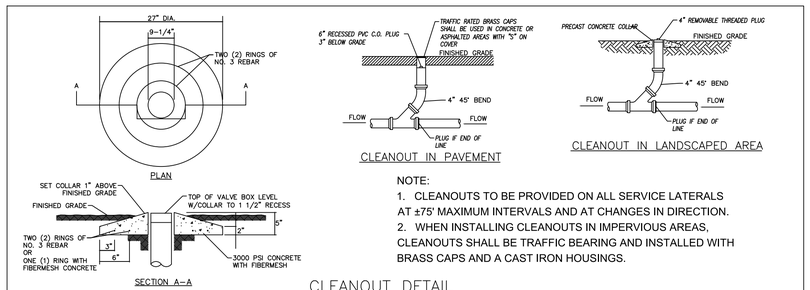
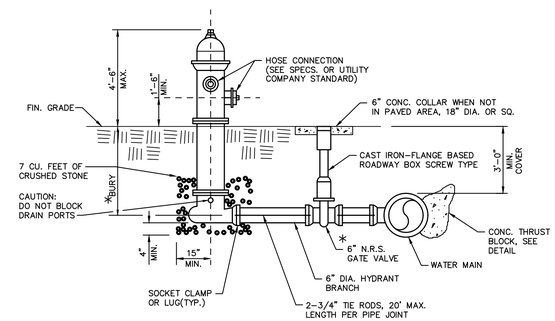


NOTE:

1. CLEANOUTS TO BE PROVIDED ON ALL SERVICE LATERALS AT ±75' MAXIMUM INTERVALS AND AT CHANGES IN DIRECTION.
2. WHEN INSTALLING CLEANOUTS IN IMPERVIOUS AREAS, CLEANOUTS SHALL BE TRAFFIC BEARING AND INSTALLED WITH BRASS CAPS AND A CAST IRON HOUSINGS.

CLEANOUT DETAIL

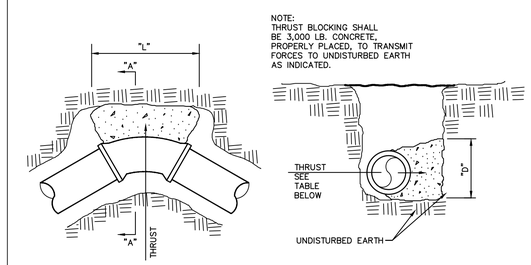
NOT TO SCALE



TYPICAL FIRE HYDRANT

(N.T.S.)

* NOTE: REVIEW F.H. TYPE, SPECS. VALVE–OPENING DIRECTION W/UTILITY COMPANY BEFORE PURCHASING.



THRUST TABULATION (KIP)

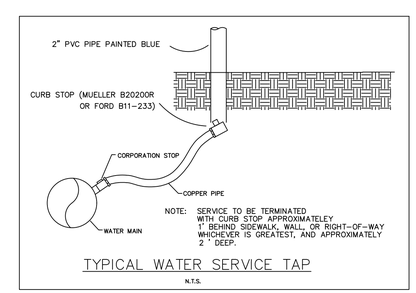
BEND PIPE DIA.		BEND 22–1/2°	BEND 45°	BEND 90°	PLUG TEE OR 60° BEND
2"–4"	0.7	1.3	2.5	4.7	3.3
6"	1.5	2.9	5.7	10.6	7.5
8"	2.9	5.0	9.8	18.2	12.9
10"	3.8	7.5	14.8	27.4	19.3
12"	5.4	10.7	20.9	38.7	27.4
14"	7.4	14.6	28.6	52.8	37.4
16"	9.3	18.5	36.4	67.2	47.5

END AREA SQ. FT. = THRUST X 1000 / BEARING X 2000

SOIL	MIN. SAFE BEARING TONS/FT.^{2}
ROCK, HARD THICK LAYERS	200
ROCK, EQUAL GOOD MASONRY	25
ROCK, EQUAL BEST BRICK	15
ROCK, EQUAL POOR BRICK	5
CLAY, ALWAYS DRY	4
CLAY, FAIRLY DRY	2
CLAY, SOFT	1
GRAVEL, COARSE SAND, FIRM	8
SAND, COMPACT, FIRM	4
SAND, CLEAN, DRY	2
QUICKSAND, ALLUVIAL SOIL	1/2

THRUST BLOCK DETAIL

(N.T.S.)



TYPICAL WATER SERVICE TAP

N.T.S.

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SITEWORK NOTES & DETAILS

C505

A1 / A1.11 **ARCHITECTURAL SITE PLAN**
1" = 30'-0"

PROJECT NORTH

MAP KEY PLAN

PROJECT NORTH

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GREENVILLE COUNTY

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MARIETTA, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	2016.06.01	BID SET	BC

BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NO. A1.11

PROJ. NO. 015292.00

MAP KEY PLAN

PROJECT NORTH

A1 / A1.12 **OVERFLOW PARKING PLAN**
1/32" = 1'-0"

OVERFLOW PARKING NOTES

1. USE EXCESS CUT SOIL FROM CAMPER CARE CENTER FOR GRADING THE OVERFLOW PARKING AREA
2. GENERAL CONTRACTOR TO CLEAR GRUB AND HAUL OFF TREE MATERIAL / STUMPS.
3. PROVIDE SILT FENCE AS SHOWN
4. COMPACT BASE TO 95%
5. ADD CULVERT AS SHOWN
6. ADD 6" OF CRUSHER RUN AS SHOWN IN THE FOOTPRINT OF THE PARKING AREA
7. STABILIZE SLOPE WITH STRAW MIX AND SUMMER GRASS SEED

SEE CIVIL PLANS FOR ADDITIONAL DETAILS

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PRINCIPAL IN CHARGE: KJ
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DRAWN BY: BC

SHEET TITLE:
OVERFLOW PARKING PLAN

SHEET NO. A1.12

PROJ. NO. 015292.00

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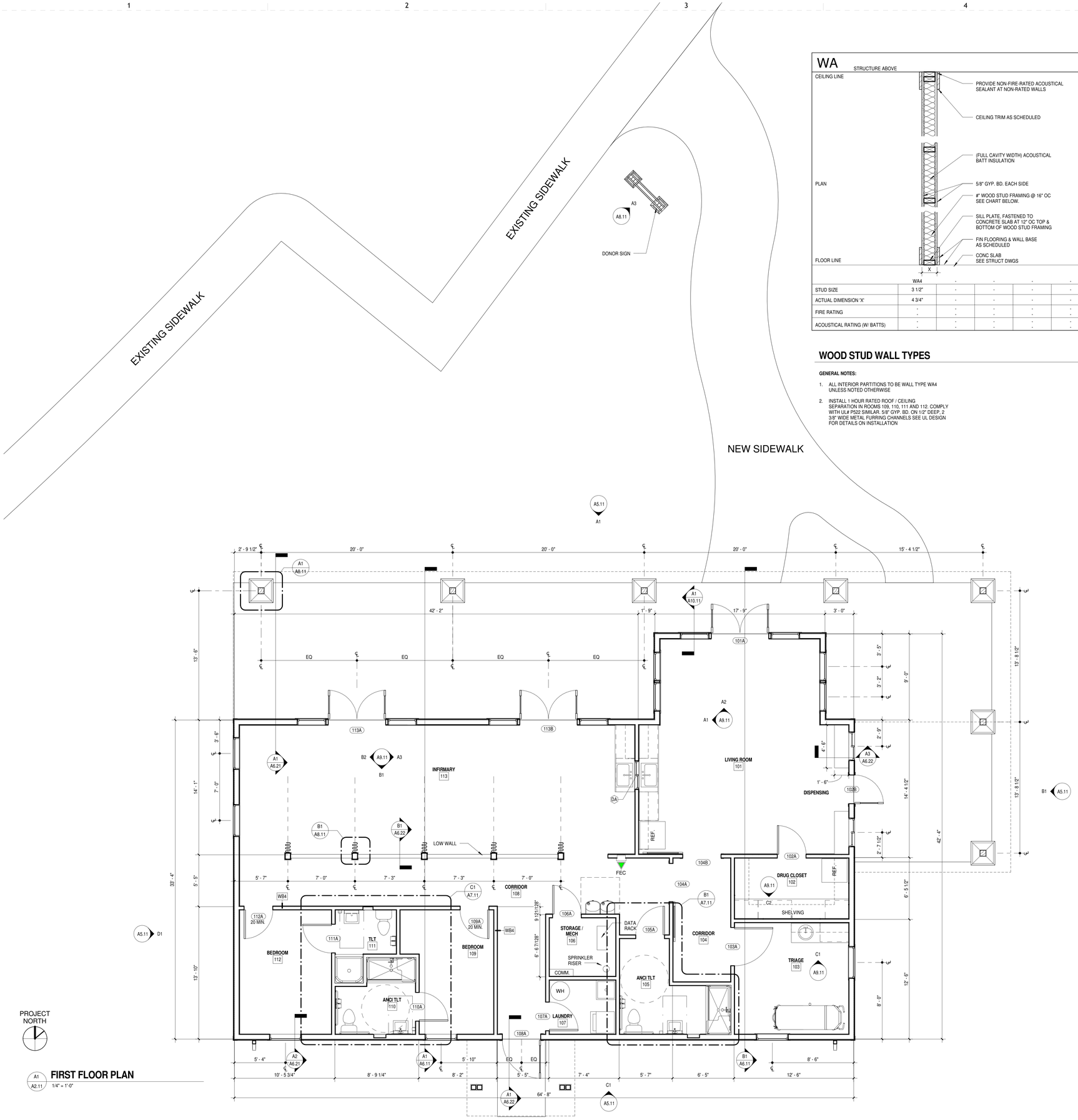


FIRST FLOOR PLAN

A1 / A2.11 1/4" = 1'-0"

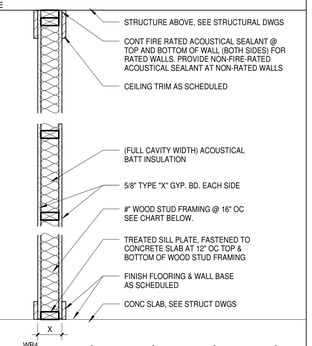
WA

STRUCTURE ABOVE

	WA4	-	-	-	-
STUD SIZE	3 1/2"	-	-	-	-
ACTUAL DIMENSION 'X'	4 3/4"	-	-	-	-
FIRE RATING	-	-	-	-	-
	-	-	-	-	-
ACOUSTICAL RATING (W/ BATTS)	-	-	-	-	-
	-	-	-	-	-

WB

STRUCTURE ABOVE



	WB4	-	-	-	-
STUD SIZE	3 1/2"	-	-	-	-
ACTUAL DIMENSION 'X'	4 3/4"	-	-	-	-
FIRE RATING	1 HR UL# U305	-	-	-	-
	-	-	-	-	-
ACOUSTICAL RATING (W/ BATTS)	-	-	-	-	-
	-	-	-	-	-

WOOD STUD WALL TYPES

GENERAL NOTES:

1. ALL INTERIOR PARTITIONS TO BE WALL TYPE WA4 UNLESS NOTED OTHERWISE
2. INSTALL 1 HOUR RATED ROOF / CEILING SEPARATION IN ROOMS 109, 110, 111 AND 112. COMPLY WITH UL# P522 SIMILAR. 5/8" GYP. BD. ON 1/2" DEEP, 2 3/8" WIDE METAL FURRING CHANNELS SEE UL DESIGN FOR DETAILS ON INSTALLATION

WALL TYPE

M - MASONRY
S - STEEL STUD
W - WOOD STUD
C - CHASE WALL
E - SHAFT WALL

WALL VARIANT - ALPHABETICALLY SEQUENTIAL

S A4

MEMBER THICKNESS

FURRING	STEEL STUD	WOOD STUD	SHAFT WALL	MASONRY
L - LAMINATED	1 - 1 5/8" STUD	1 - 1 1/2" NAILER	2 - 2 1/2" CH STUD	4 - 4" CMU
0 - 7/8" HAT	2 - 2 1/2" STUD	4 - 2 x 4" STUD	4 - 4" CH STUD	6 - 6" CMU
1 - 1 1 /2" HAT	3 - 3 5/8" STUD	6 - 2 x 6" STUD	6 - 6" CH STUD	8 - 8" CMU
	4 - 4" STUD	8 - 2 x 8" STUD		
	6 - 6" STUD			
	8 - 8" STUD			

WALL FRAMING PRIORITY

PARTITIONS SHALL BE PRIORITIZED BASED ON FIRE AND SMOKE RATING. PARTITIONS SHALL BE CONSTRUCTED SUCH THAT HIGHER PRIORITY IS FRAMED BEFORE LOWER PRIORITY. LOWER PRIORITY PARTITIONS SHALL BE FRAMED TIGHT TO, BUT NOT INTERRUPT HIGHER PRIORITY CONSTRUCTION. (SEE THE EXAMPLE BELOW)

2 HOUR FIRE RATED WITH SMOKE BARRIER	PRIORITY 1 (HIGHEST)
2 HOUR FIRE RATED	PRIORITY 2
1 HOUR FIRE RATED WITH SMOKE BARRIER	PRIORITY 3
1 HOUR FIRE RATED	PRIORITY 4
NONE RATED	PRIORITY 5 (LOWEST)

WALL TAG LEGEND

FLOOR PLAN GENERAL NOTES

GENERAL CONTRACTOR TO PROVIDE SECURITY SYSTEM - PROVIDE COMPATIBLE SYSTEM TO CAMP EXISTING SYSTEM AND 3 MOTION DETECTORS WITH A CONTROL PANEL IN THE LIVING ROOM BY THE FRONT DOOR AND BY THE BACK DOOR. NO CAMERAS OR CARD READERS SHALL BE PROVIDED.
EXISTING SECURITY SYSTEM IS DMP BRAND SYSTEM

GENERAL PARTITION NOTES:

1. PLAN DIMENSIONS ARE TO FACE OF STUD UNLESS SPECIFICALLY NOTED OTHERWISE
2. GYPSUM WALL BOARD LAYERS ON RATED WALLS SHALL BE CONTINUOUS THROUGH ALL INTERSECTIONS WITH NON-RATED WALLS. REFER TO FIRE WALL PRIORITY DIAGRAM.
3. REFERENCE ALL FLOOR PLANS AND LIFE SAFETY PLANS FOR RATED WALL LOCATIONS & RATINGS.
4. PROVIDE TYPE X, MOLD AND MOISTURE RESISTANT GYPSUM BOARD IN ALL TOILET AND JANITOR ROOMS.
5. PROVIDE CEMENT BOARD IN ALL WET SHOWER AREA WALLS WITH TILE FINISH.
6. AT ALL UL RATED WALLS THAT EXTEND TO THE STRUCTURE ABOVE, FILL VOIDS SOLID WITH MINERAL WOOL INSULATION WHERE WALL IS FRAMED AROUND BEAMS, BAR JOISTS, SLABS, AND ROOF DECK. MAINTAIN SCHEDULED SOUND RATING. AT ALL SOUND RATED WALLS PROVIDE FLEXIBLE SEALANT OR AN ACOUSTICAL GASKET BETWEEN THE STC RATED SYSTEM AND ALL DISSIMILAR SURFACES (IE PENETRATIONS) AND ALSO BETWEEN THE SYSTEM AND SIMILAR SURFACES WHERE PERIMETER RELIEF IS REQUIRED. ALL OPENINGS THROUGH THE SYSTEM, AND ITS ENTIRE PERIMETER, SHALL BE SEALED AIRTIGHT. TAPING GYPSUM BOARD WALL AND WALL-CEILING INTERSECTIONS PROVIDES AN ADEQUATE AIR SEAL AT THESE LOCATIONS.
7. AT ALL JOINTS AT TOP OF ALL FIRE RATED PARTITIONS: PROVIDE COMPLETE UL LISTED FIRE RESISTIVE JOINT SYSTEM TO MATCH FIRE RESISTANCE OF WALL ASSEMBLY AND THAT IS ALSO COMPATIBLE WITH JOINT SUBSTRATES. SUBMIT COMPLETE JOINT SYSTEM PRODUCT INFORMATION FOR ALL CONDITIONS.
8. ANY PORTION OF GYPSUM BOARD THAT BECOMES WET OR SHOWS SIGNS OF MOISTURE DAMAGE, EITHER BEFORE OR AFTER INSTALLATION, IS TO BE REMOVED IMMEDIATELY AND REPLACED WITH NEW DRY GYPSUM BOARD.
9. MANY INTERIOR PARTITIONS HAVE ADDITIONAL FINISHES, SUCH AS WALL TILES OR WOOD PANELING. SEE FINISH SCHEDULE AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
10. SOUND ATTENUATION BLANKET IS REQUIRED AT ALL INTERIOR PARTITIONS AND SHALL RUN FULL HEIGHT OF PARTITION UNLESS NOTED OTHERWISE. SOUND ATTENUATION BATT SHALL BE MADE OF MINERAL WOOL OR OTHER UL APPROVED MATERIAL.
11. IT IS NOT THE INTENT OF THE DOCUMENTS TO IDENTIFY EACH INDIVIDUAL WALL WITH A WALL TAG. MINOR WALLS OR OTHER WALLS NOT TAGGED WILL BE OF THE SAME WALL TYPE AS ADJACENT WALLS.
12. GENERAL CONTRACTOR IS TO COORDINATE AND PROVIDE ALL REQUIRED BLOCKING WITHIN THE WALLS. THIS INCLUDES BUT IS NOT LIMITED TO, ALL MILLWORK, CASEWORK, GRAB BARS, LCD MONITORS, AND TOILET PARTITIONS.
13. GYPSUM BOARD ON WALLS SHALL BE APPLIED WITH A MINIMUM 1/4" GAP BETWEEN THE GYPSUM BOARD AND THE FLOOR AND SHALL NOT BE APPLIED OVER OTHER BUILDING MATERIALS WHERE CONDITIONS EXIST THAT ARE FAVORABLE TO MOLD GROWTH.

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GREENVILLE COUNTY

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MARIETTA, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
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BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

SHEET TITLE:
FIRST FLOOR PLAN

SHEET NO. A2.11

PROJ. NO. 015292.00

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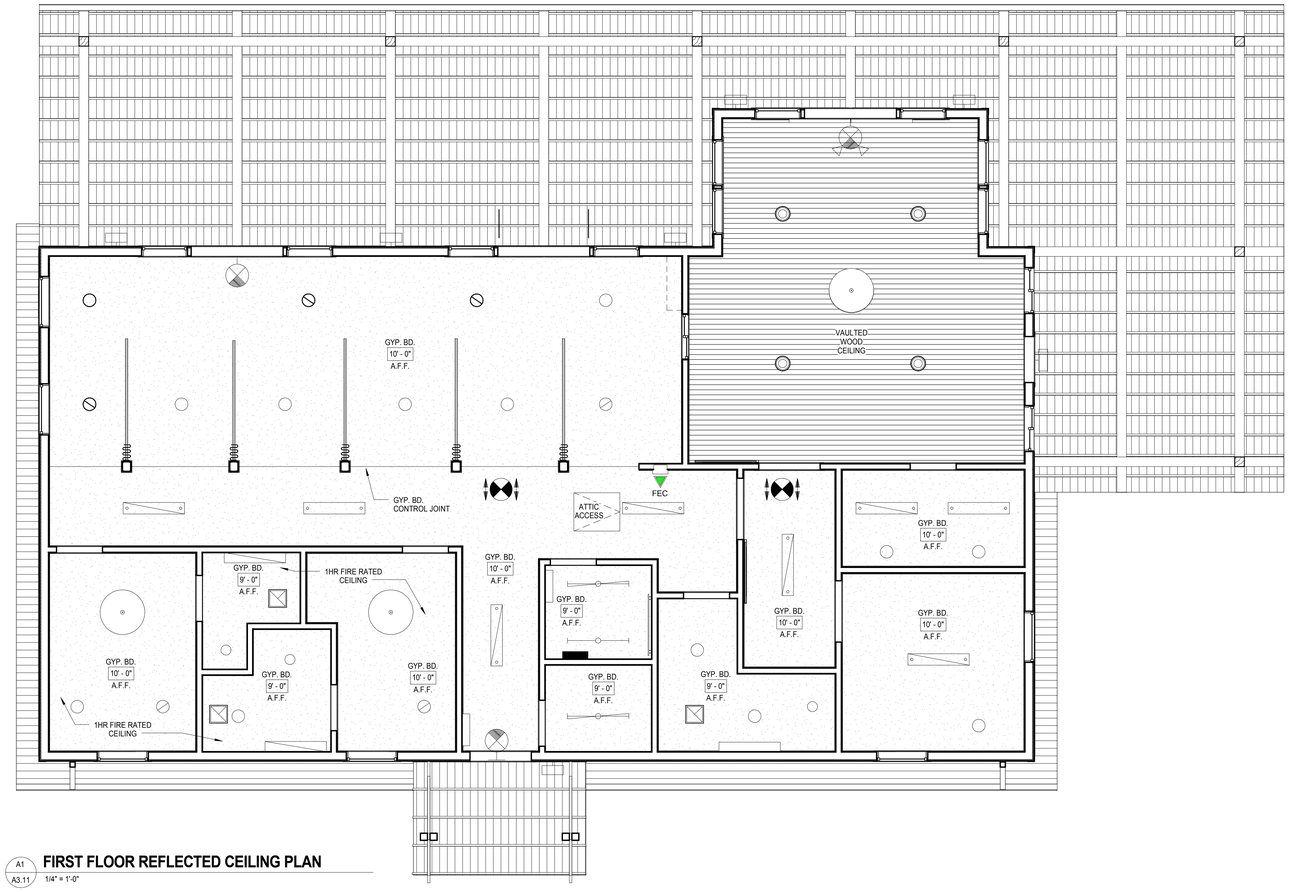

A1 / A3.11 **FIRST FLOOR REFLECTED CEILING PLAN**

1/4" = 1'-0"

GENERAL NOTE:

1. INSTALL 1 HOUR RATED ROOF / CEILING SEPARATION IN ROOMS 109, 110, 111 AND 112. COMPLY WITH UL# P522. 5/8" GYP. BD. ON 1/2" DEEP, 2 3/8" WIDE METAL FURRING CHANNELS SEE UL DESIGN FOR DETAILS ON INSTALLATION

INTERIOR WOOD CEILING

No. 1 GRADE 1x4 SOUTHERN YELLOW PINE TONGUE AND GROOVE

GYPSUM CEILING

CEILING TAG

2' x 2' ACT — CEILING SYSTEM (WHEN INDICATED)

10'-0" A.F.F. — CEILING HEIGHT

EXIT SIGN - WALL MOUNTED (DIRECTIONAL ARROWS WHERE INDICATED)

EXIT SIGN - CEILING MOUNTED (DIRECTIONAL ARROWS WHERE INDICATED)

CUBICAL CURTAIN TRACK - SEE SPECS FOR DETAILS

LINEAR SUPPLY DIFFUSER

EXHAUST FAN

LINEAR PENDANT, DIRECT / INDIRECT

LINEAR PENDANT, DIRECT / INDIRECT WITH EMERGENCY BATTERY BACKUP

SURFACE MOUNTED FLUORESCENT LIGHT

SURFACE MOUNTED FLUORESCENT LIGHT

SURFACE MOUNTED FLUORESCENT LIGHT WITH EMERGENCY BATTERY BACKUP

CEILING FAN WITH LIGHT

IC RATED RECESSED LED FIXTURE, SEE ELECTRICAL LIGHTING PLAN FOR WET LISTED LOCATIONS

IC RATED RECESSED LED FIXTURE WITH EMERGENCY BATTERY BACKUP

PENDANT DOWNLIGHT

WALL MOUNTED MINI-SCONCE, SEE ELECTRICAL LIGHTING PLAN FOR EMERGENCY BATTERY BACK LOCATIONS

RCP LEGEND

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NO.	DATE	DESCRIPTION	BY
1	2016.06.01	BID SET	BC

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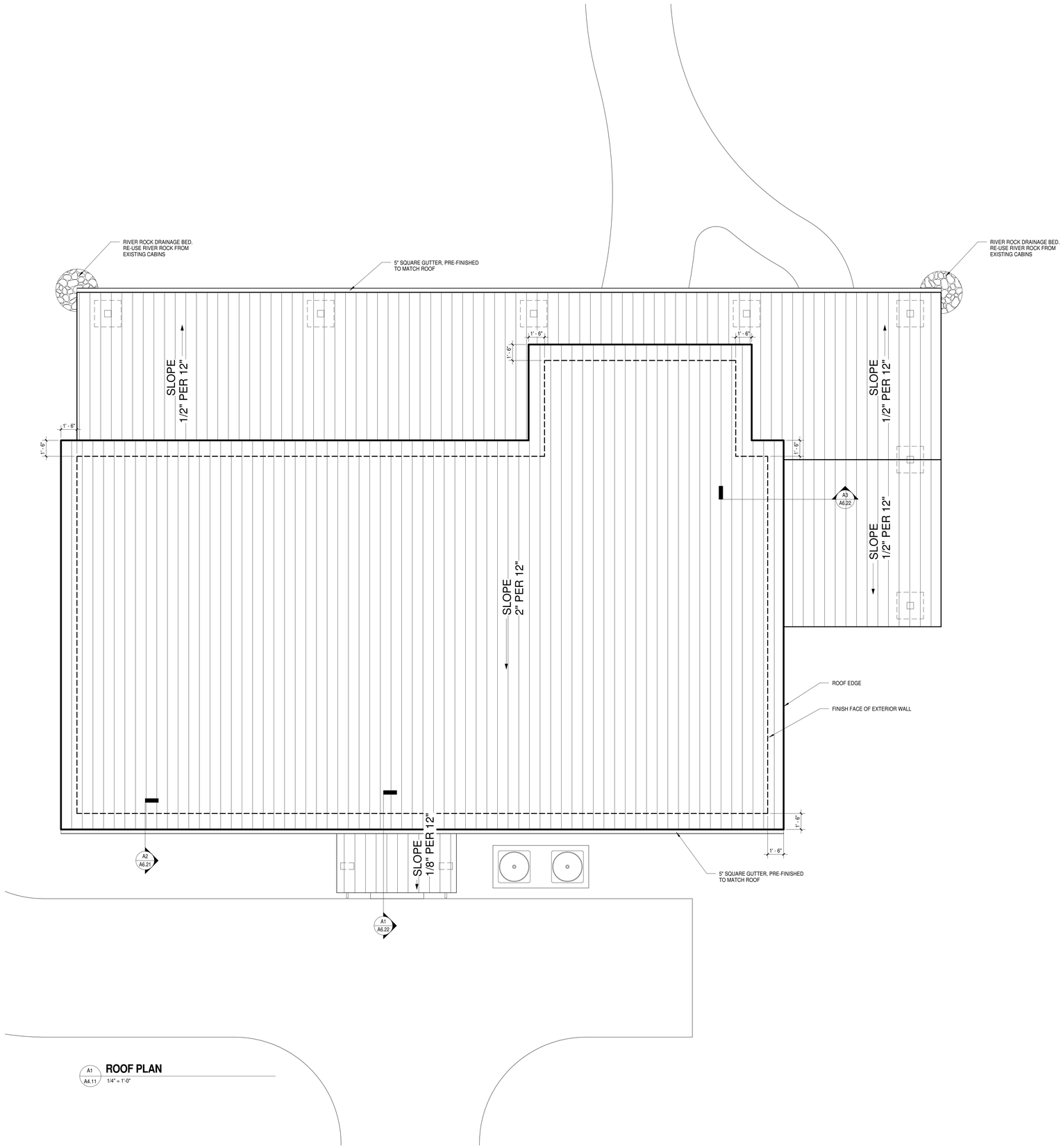
PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

SHEET TITLE:
FIRST FLOOR REFLECTED CEILING PLAN

SHEET NO. A3.11

PROJ. NO. 015292.00



A1 A4.11 **ROOF PLAN**
1/4" = 1'-0"

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SHEET ISSUE:

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BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

SHEET TITLE:
ROOF PLAN

SHEET NO. A4.11

PROJ. NO. 015292.00

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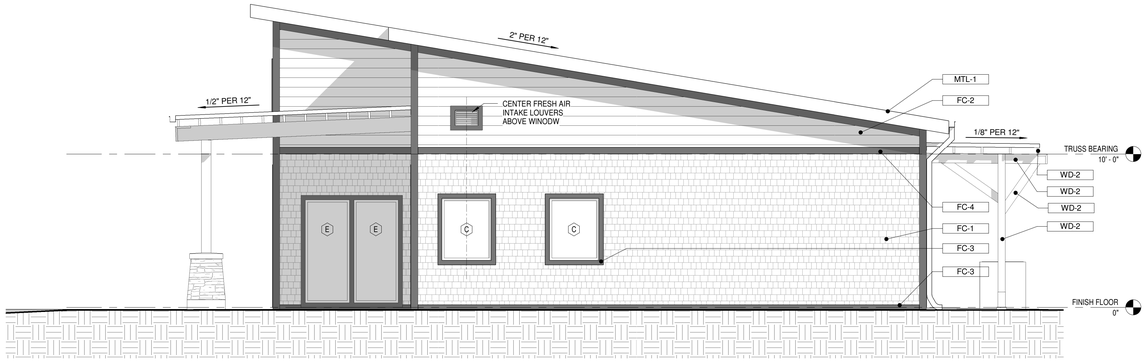
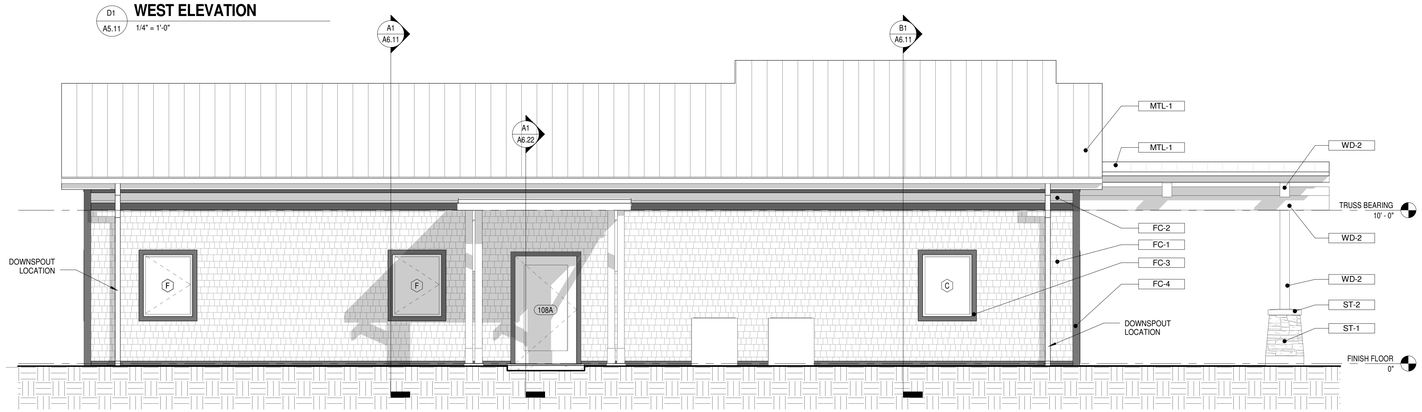
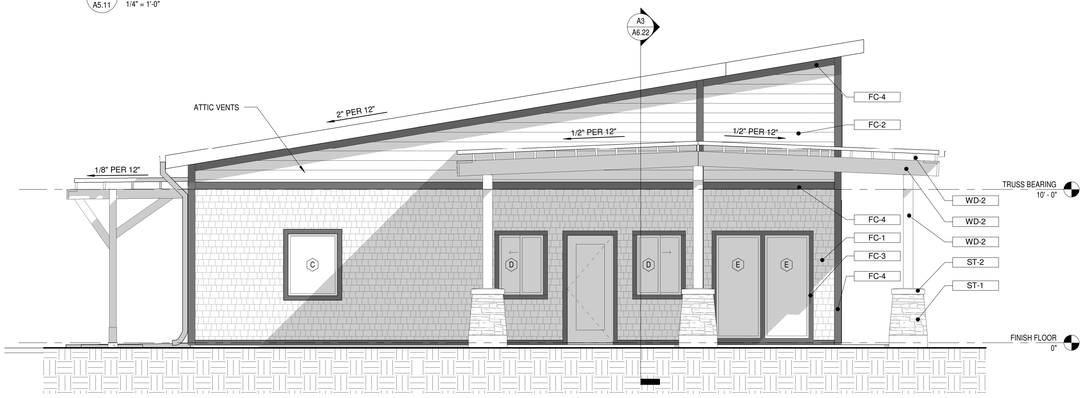


D1 A5.11 **WEST ELEVATION**
1/4" = 1'-0"



C1 A5.11 **SOUTH ELEVATION**
1/4" = 1'-0"



B1 A5.11 **EAST ELEVATION**
1/4" = 1'-0"

A1 A5.11 **NORTH ELEVATION**
1/4" = 1'-0"

EXTERIOR MATERIAL LEGEND	
Key Value	Keynote Text
FC-1	FIBER CEMENT - SHAKE PANEL, MATCH EXISTING CABINS
FC-2	FIBER CEMENT - HORIZONTAL LAP SIDING, MATCH EXISTING CABINS
FC-3	FIBER CEMENT - 5/4" X 4 TRIM, HARDIE OR MIRATEC, MATCH EXISTING CABINS
FC-4	FIBER CEMENT - 5/4" X 6 TRIM, HARDIE OR MIRATEC, MATCH EXISTING CABINS
MTL-1	STANDING SEAM METAL ROOF - MATCH EXISTING CABINS
ST-1	STONE VENEER - PROSTONE LEDGESTONE - GLACIER VALLEY, MATHX EXISTING CABINS
ST-2	CAST STONE - PRECAST STONE CAP - MATCH EXISTING CABINS
WD-1	WOOD CEILING - NO.1 GRADE 1x6 SOUTHERN YELLOW PINE TOUNGE AND GROOVE
WD-2	SOUTHERN YELLOW PINE, STAINED WITH SOLID COLOR PREMIUM ACRYLIC STAIN

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PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NO. A5.11

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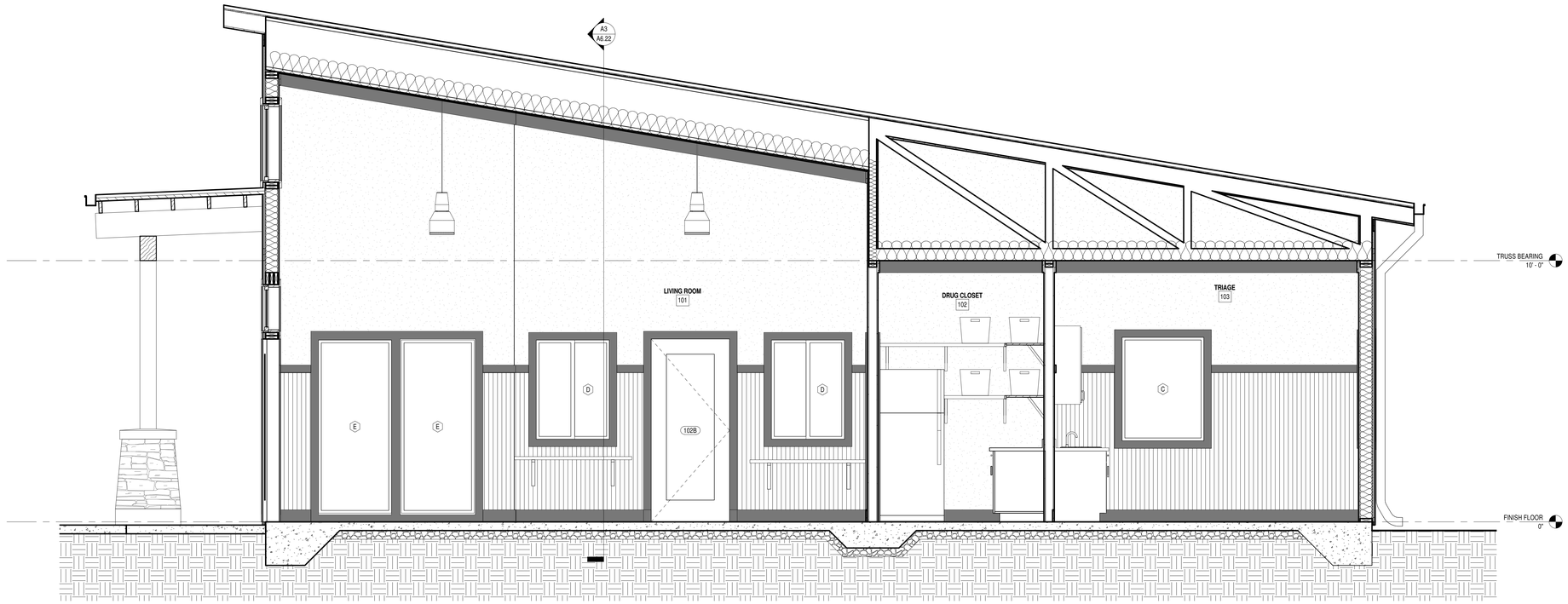
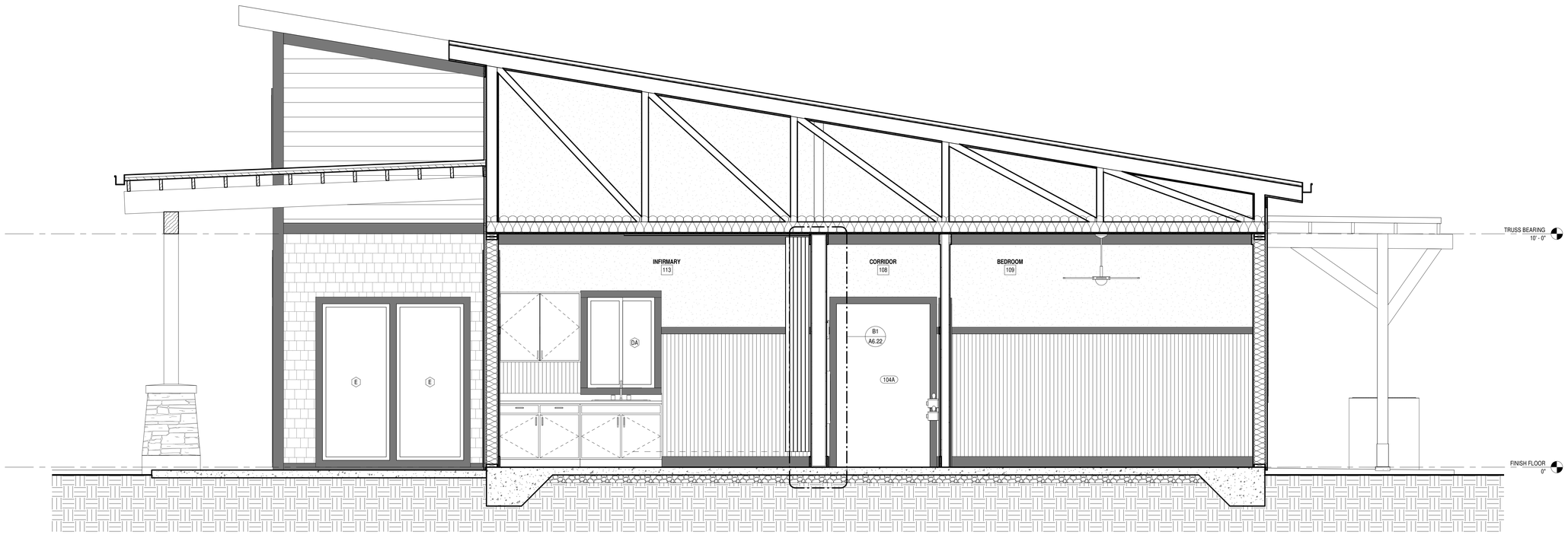


B1 A6.11 **NORTH / SOUTH SECTION 2**
1/2" = 1'-0"



A1 A6.11 **NORTH / SOUTH SECTION 1**
1/2" = 1'-0"

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MARIETTA, SC

SHEET ISSUE:

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A	2015.10.23	DESIGN DEVELOPMENT	BC
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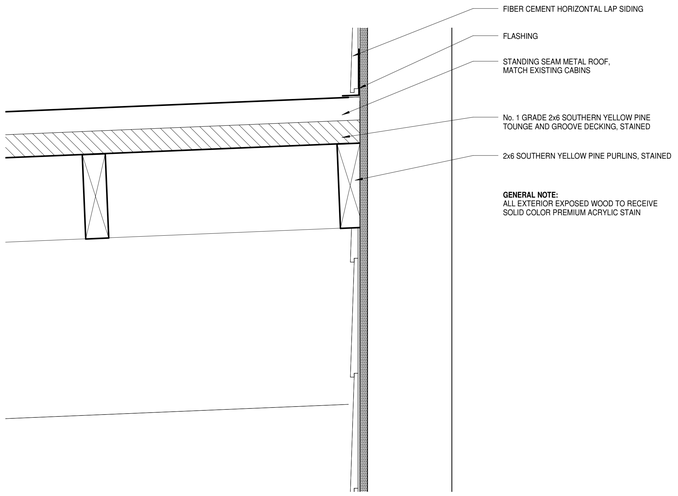
PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

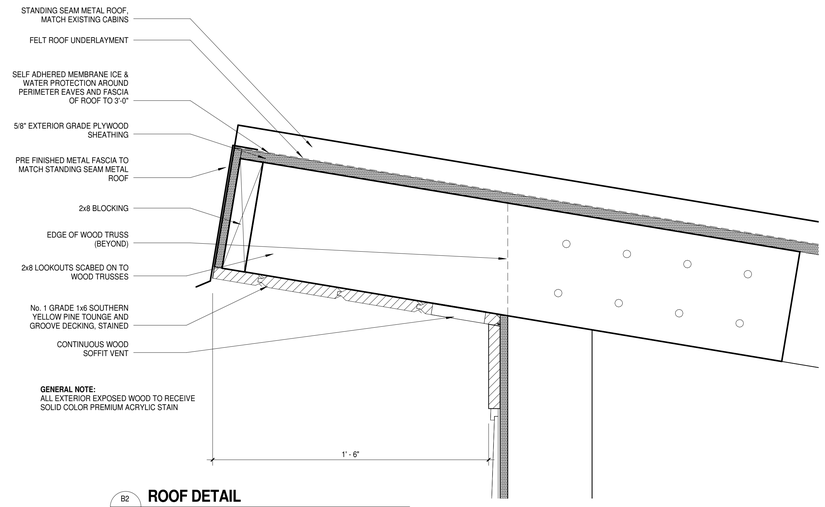
SHEET TITLE:
BUILDING SECTIONS

SHEET NO. A6.11

PROJ. NO. 015292.00



B1 A6.21 **PORCH DETAIL**
3" = 1'-0"



B2 A6.21 **ROOF DETAIL**
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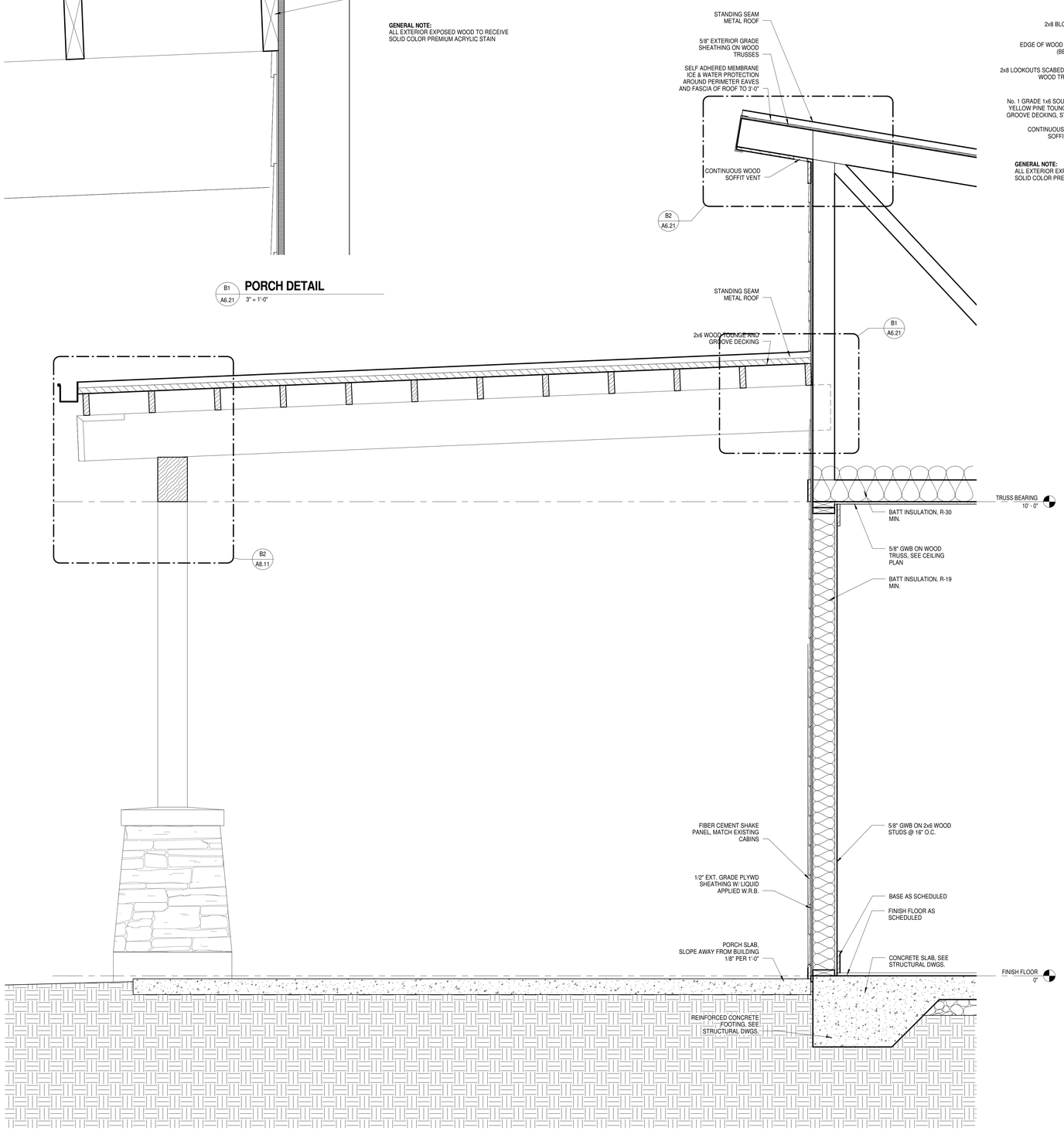
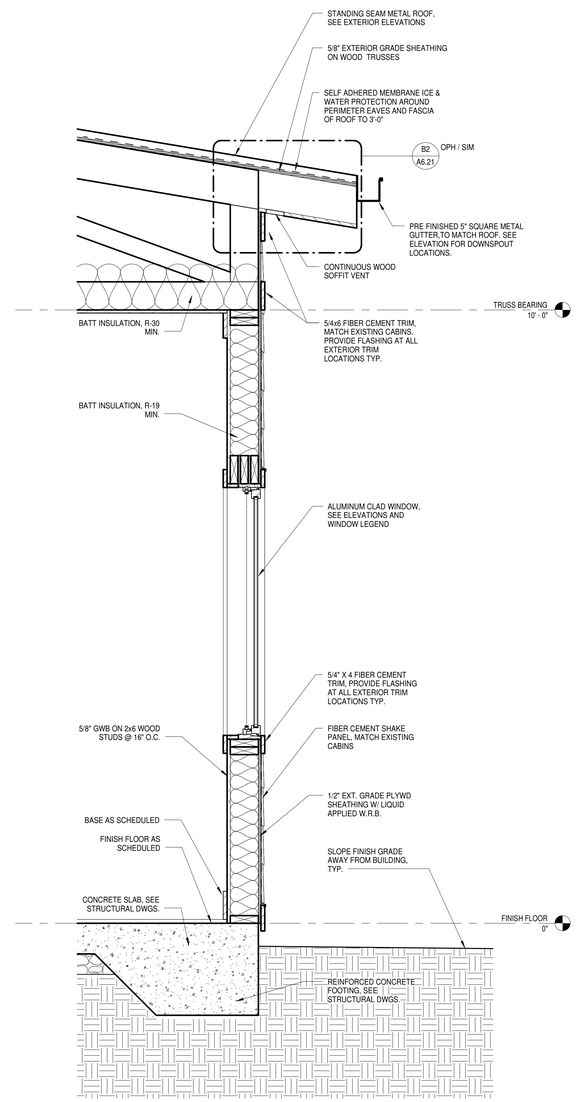


A1 A6.21 **INFIRMARY WALL SECTION**
1" = 1'-0"



A2 A6.21 **BEDROOM WALL SECTION**
1" = 1'-0"

5/17/2016 1:42:38 PM C:\Revit Local Projects\mpd_Stroud2016_Greenville_Central_v_Andrew2016_Central_v17.rvt
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STATE OF SOUTH CAROLINA — McMILLAN PAZDAN SMITH, LLC — GREENVILLE, SC — 100573 — REGISTERED ARCHITECTS

GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	2016.06.01	BID SET	KC

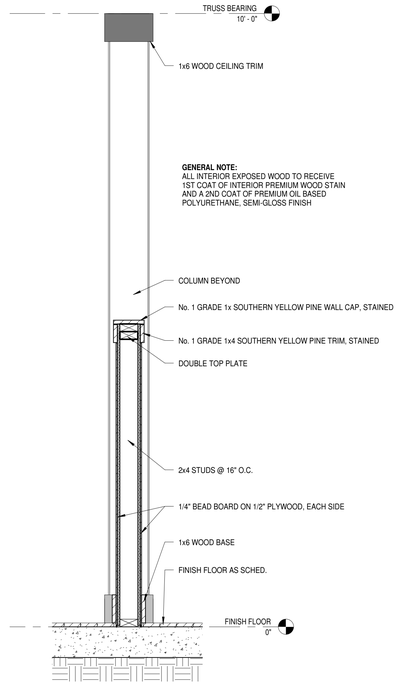
BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

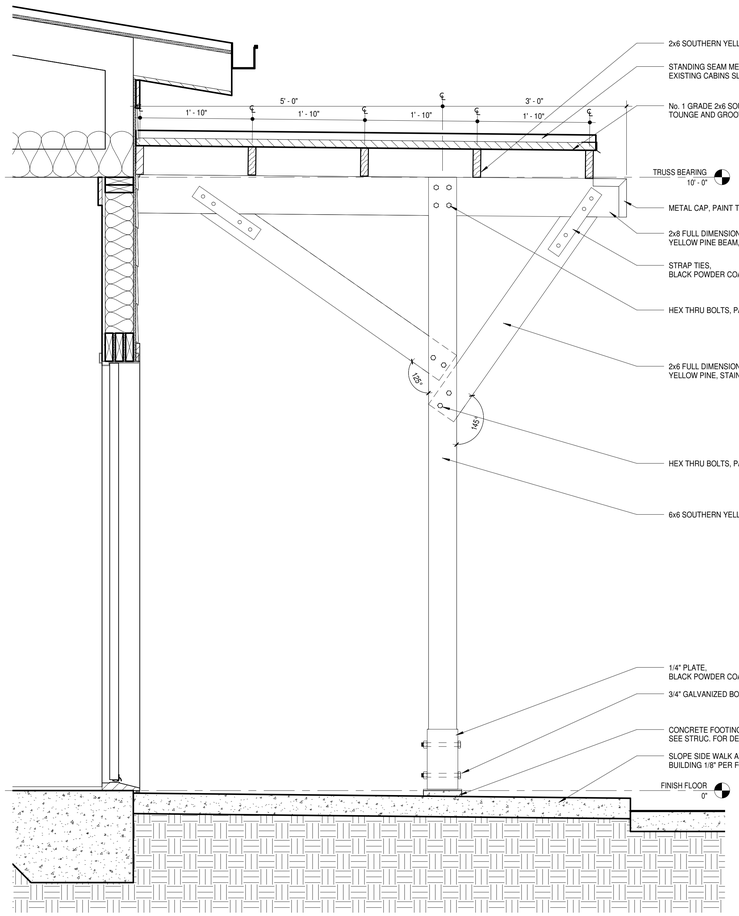
SHEET TITLE:
WALL SECTIONS

SHEET NO. A6.21

PROJ. NO. 015292.00



B1 / A6.22 **INFIRMARY LOW WALL SECTION**
1" = 1'-0"



A1 / A6.22 **CANOPY DETAIL**
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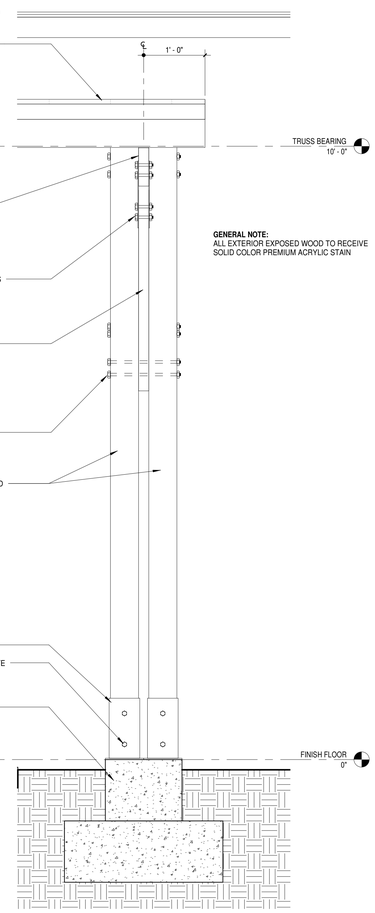
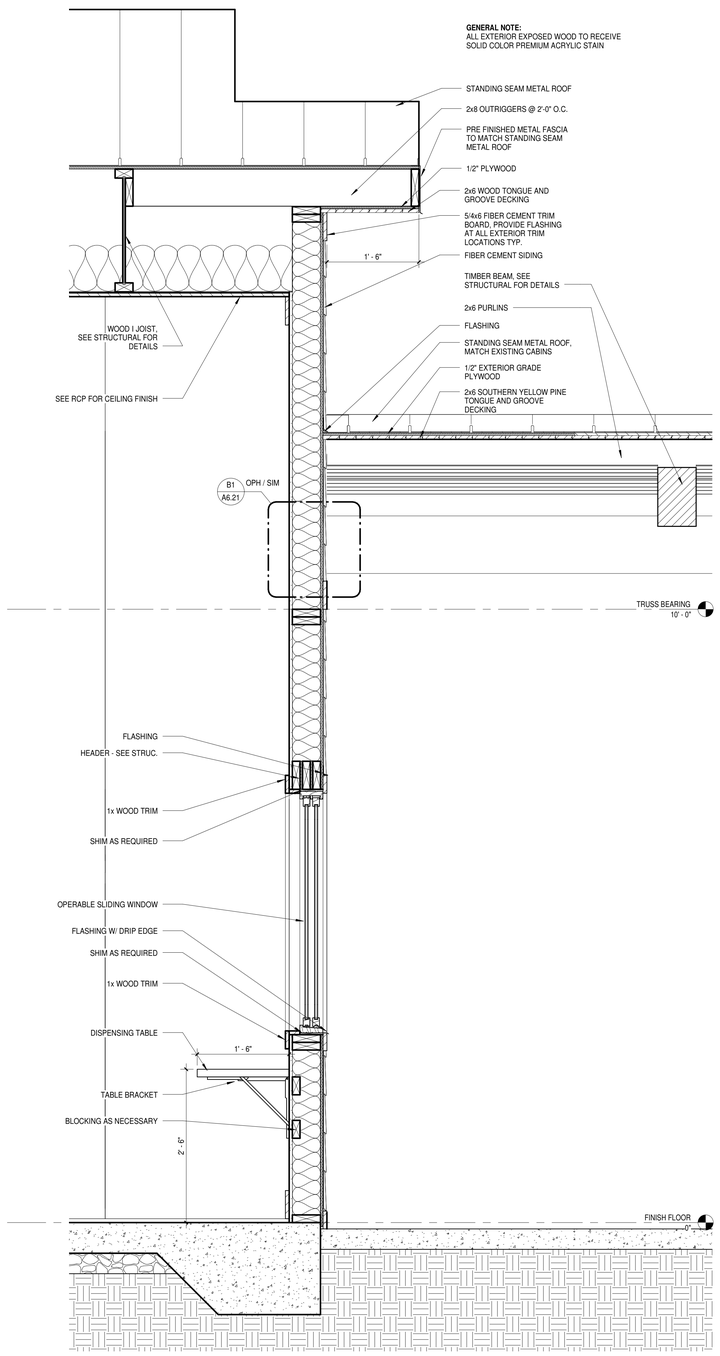


A2 / A6.22 **CANOPY DETAIL**
1" = 1'-0"



A3 / A6.22 **DISPENSING TABLE SECTION**
1" = 1'-0"

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MARIETTA, SC

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1	2016.06.01	BID SET	BC

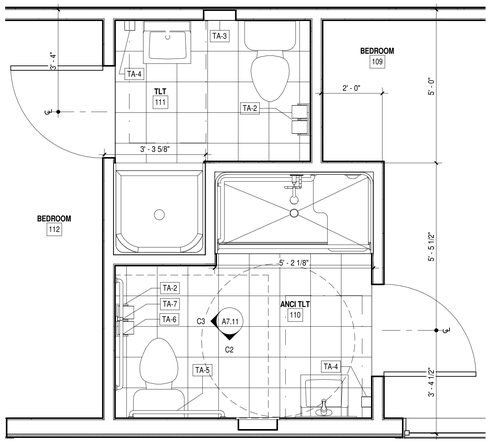
BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

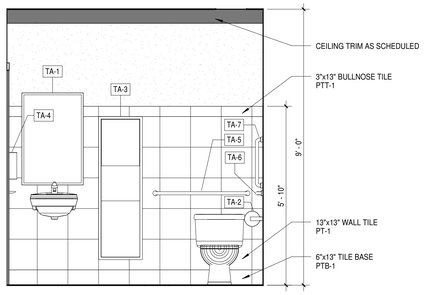
SHEET TITLE:
WALL SECTIONS

SHEET NO. A6.22

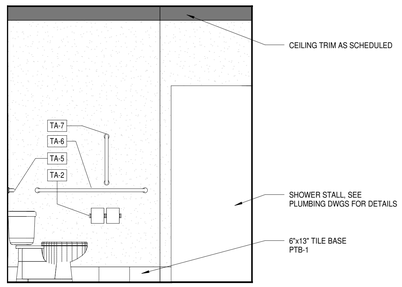
PROJ. NO. 015292.00



C1 A7.11 **STAFF BATHROOMS**
1/2" = 1'-0"



C2 A7.11 **TOILET ELEVATION**
1/2" = 1'-0"

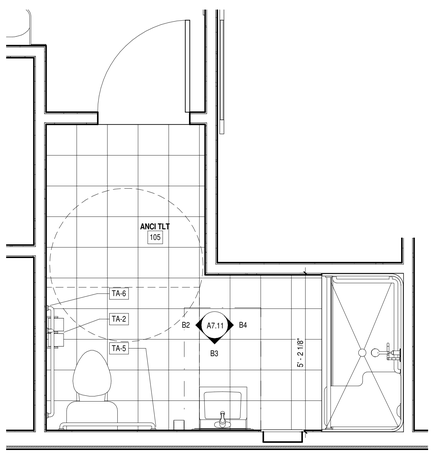


C3 A7.11 **TOILET ELEVATION**
1/2" = 1'-0"

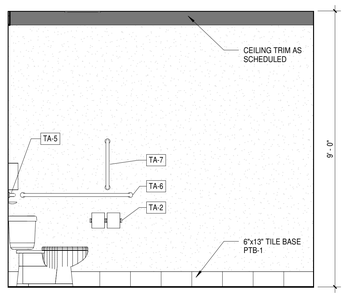
TOILET ACCESSORIES LEGEND

TA-1	MIRROR
TA-2	TOILET PAPER HOLDER
TA-3	PAPER TOWEL DISPENSER / WASTE RECEPTACLE
TA-4	WALL MOUNTED SOAP DISPENSER
TA-5	ADA GRAB BARS; 36" HORIZONTAL
TA-6	ADA GRAB BARS; 42" HORIZONTAL
TA-7	ADA GRAB BARS; 18" VERTICAL

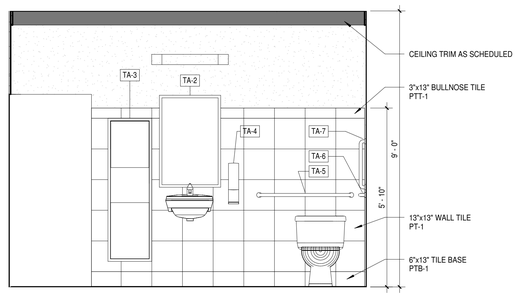
*SEE SPECIFICATIONS FOR MORE DETAILS



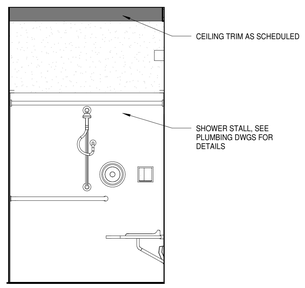
B1 A7.11 **ANCI TLT 105**
1/2" = 1'-0"



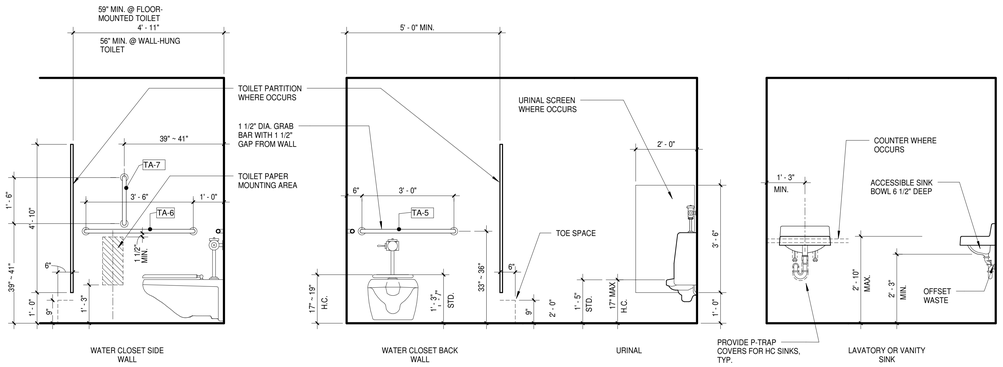
B2 A7.11 **ANCI TLT 105 - WEST WALL**
1/2" = 1'-0"



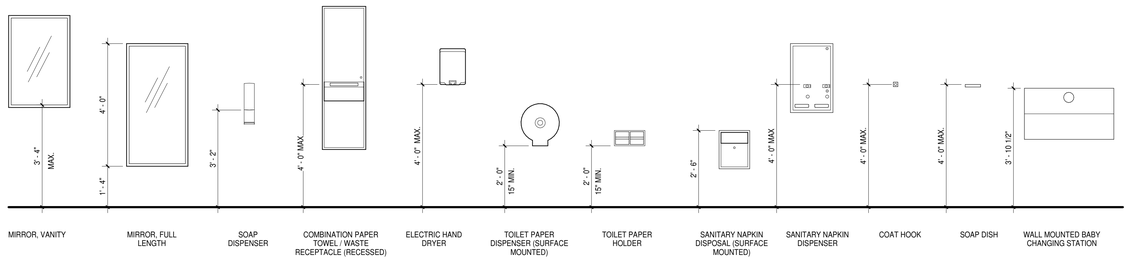
B3 A7.11 **ANCI TLT 105 - SOUTH WALL**
1/2" = 1'-0"



B4 A7.11 **ANCI TLT 105 - EAST WALL**
1/2" = 1'-0"



TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS



TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS

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MARIETTA, SC

SHEET ISSUE:

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1	2016.06.01	BID SET	KC

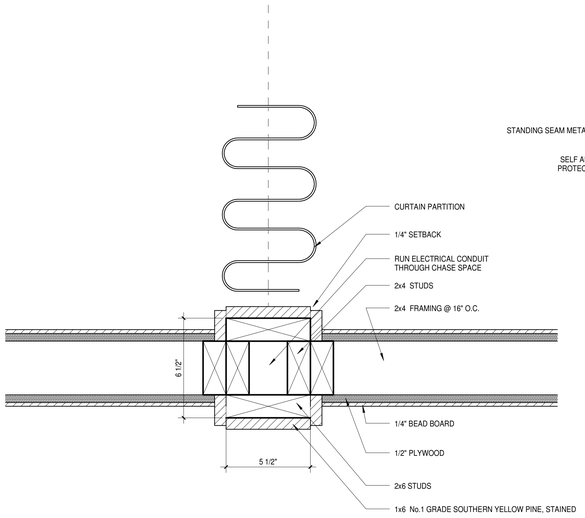
BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

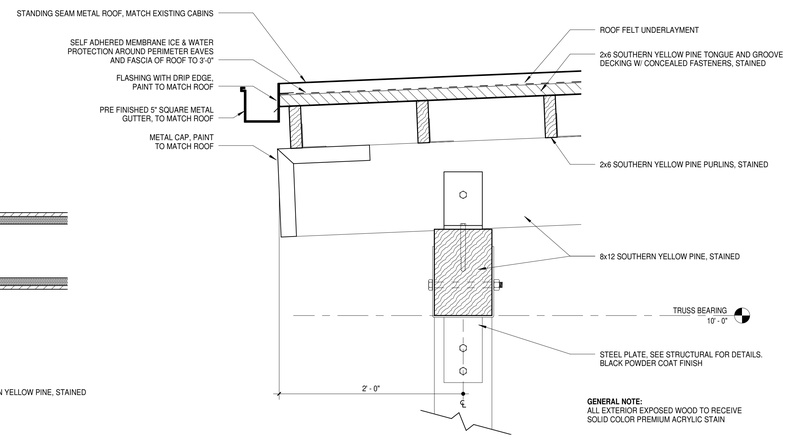
SHEET TITLE:
ENLARGED TOILET PLANS

SHEET NO. A7.11

PROJ. NO. 015292.00

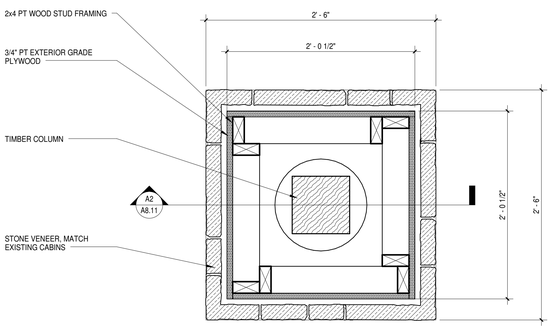


B1 / A8.11 **INFIRMARY COLUMN DETAIL**
3" = 1'-0"

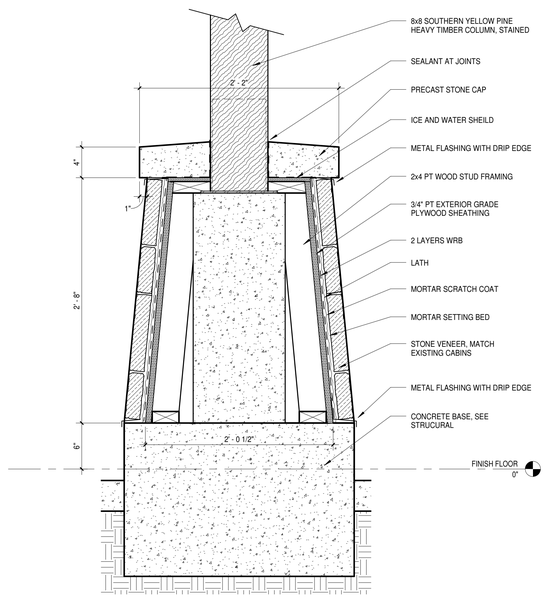


GENERAL NOTE:
ALL EXTERIOR EXPOSED WOOD TO RECEIVE SOLID COLOR PREMIUM ACRYLIC STAIN

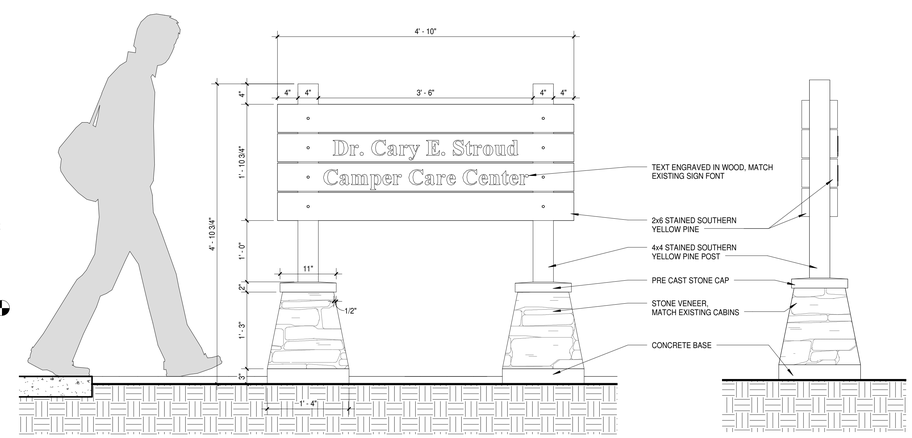
B2 / A8.11 **PORCH FRAMING DETAILS**
1 1/2" = 1'-0"



A1 / A8.11 **COLUMN PLAN DETAIL**
1 1/2" = 1'-0"



A2 / A8.11 **COLUMN SECTION**
1 1/2" = 1'-0"



A3 / A8.11 **DONOR SIGN**
1" = 1'-0"

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GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	2016.06.01	BID SET	BC

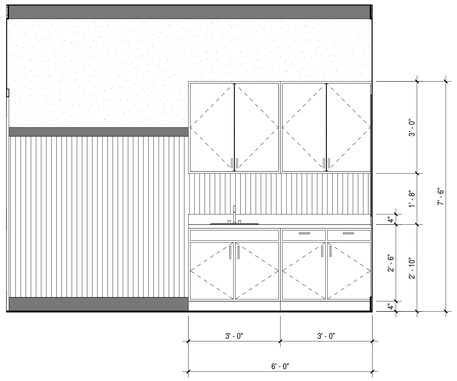
BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

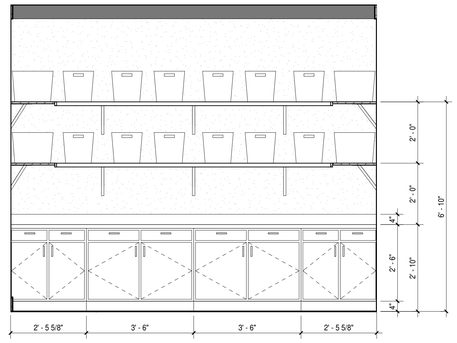
SHEET TITLE:
PLAN DETAILS

SHEET NO. A8.11

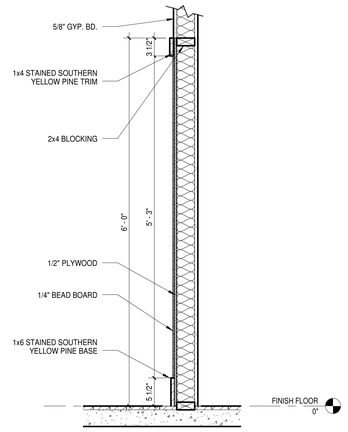
PROJ. NO. 015292.00



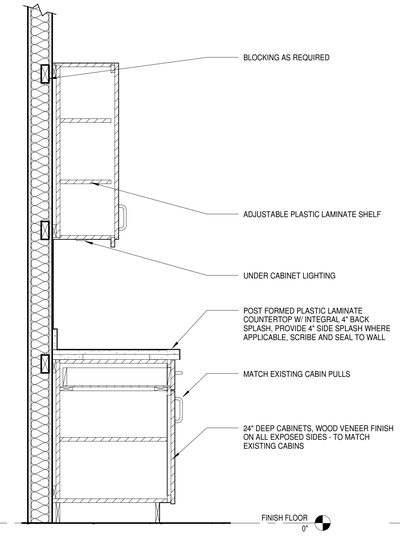
C1 A9.11 **TRIAGE CASEWORK**
1/2" = 1'-0"



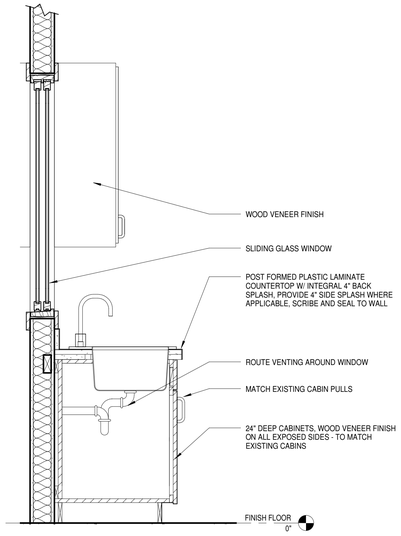
C2 A9.11 **DRUG CLOSET CASEWORK**
1/2" = 1'-0"



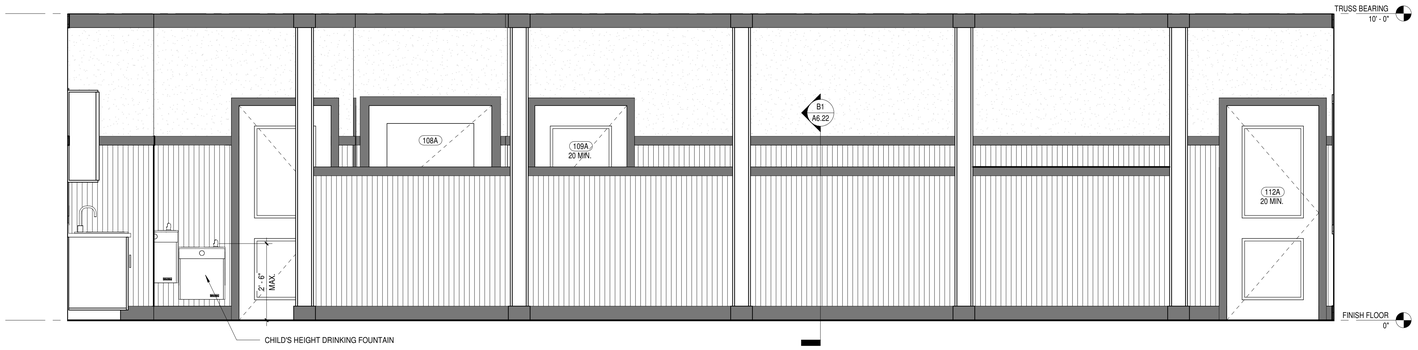
C3 A9.11 **WAINSCOT DETAIL**
1" = 1'-0"



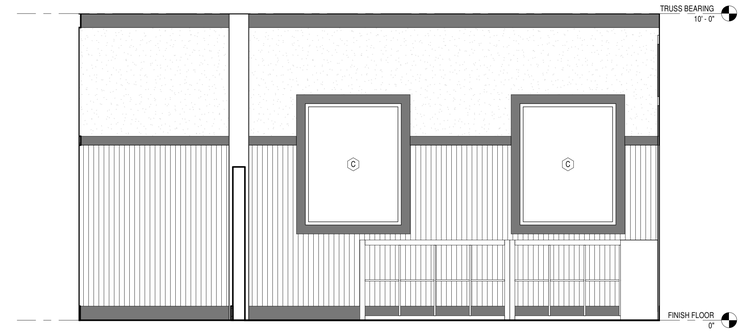
C4 A9.11 **MILLWORK SECTION**
1" = 1'-0"



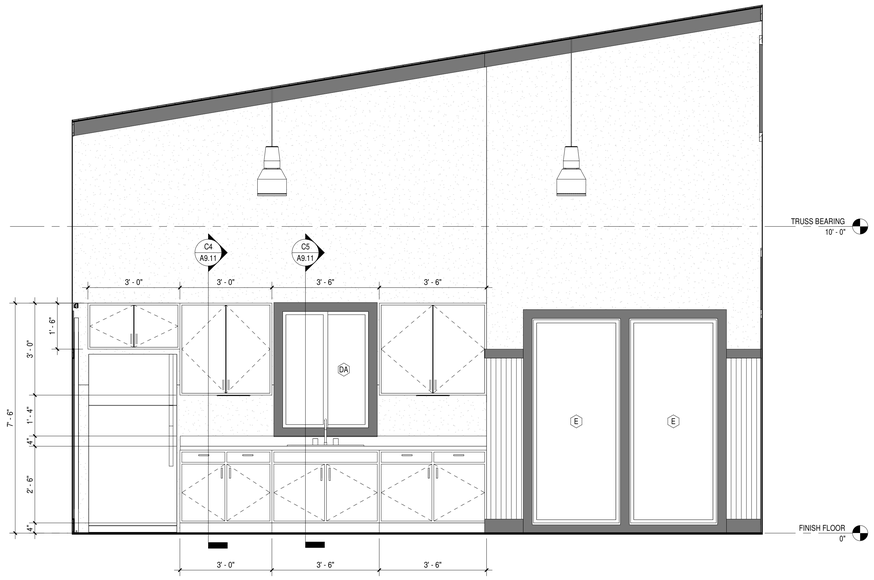
C5 A9.11 **MILLWORK SINK SECTION**
1" = 1'-0"



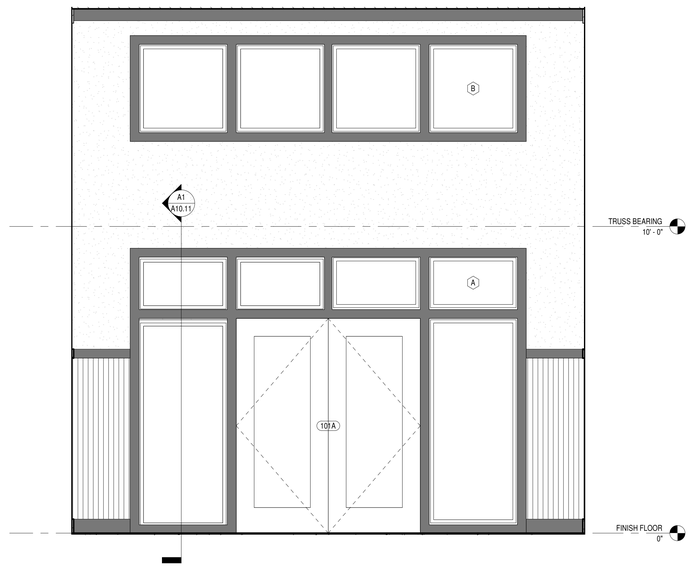
B1 A9.11 **INTERIOR ELEVATION - INFIRMARY**
1/2" = 1'-0"



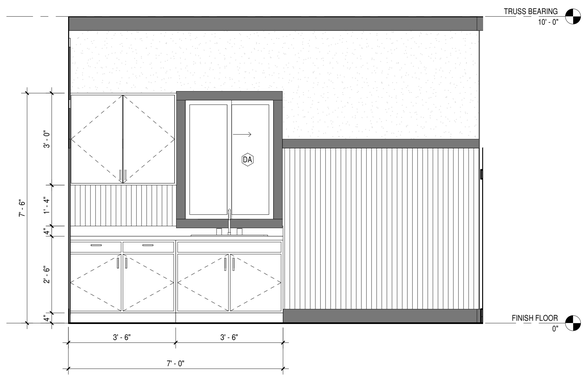
B2 A9.11 **INFIRMARY CUBBIES**
1/2" = 1'-0"



A1 A9.11 **INTERIOR ELEVATION - KITCHENETTE**
1/2" = 1'-0"



A2 A9.11 **INTERIOR ELEVATION - ENTRY**
1/2" = 1'-0"



A3 A9.11 **INFIRMARY SINK CASEWORK**
1/2" = 1'-0"

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GREENVILLE COUNTY

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MARIETTA, SC

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BID SET 2016.06.01

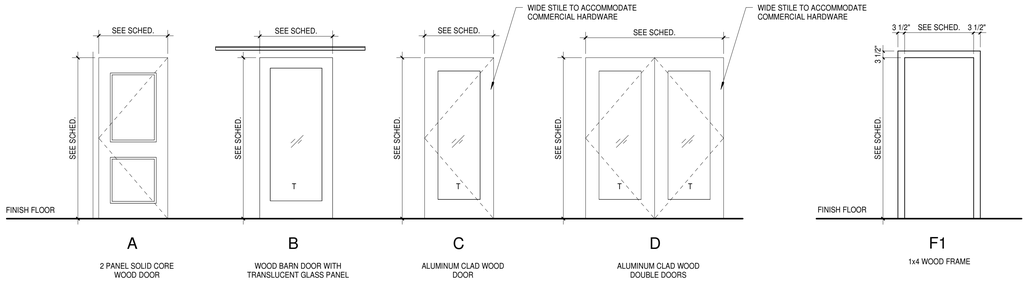
PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NO. A9.11

PROJ. NO. 015292.00

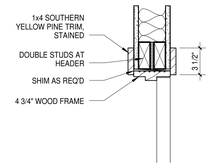
DOOR SCHEDULE													
		DOOR SIZE							FRAME				
DOOR NO.	ROOM NO.	WIDTH	HEIGHT	THK.	FIRE RATING	DOOR TYPE	HARDWARE TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MTL	HEAD	JAMB	REMARKS
101A	101	6' - 0"	7' - 0"	1 3/4"		D		CLAD/GLASS	F1	WOOD			
102A	101	3' - 0"	7' - 0"	1 3/4"		A		WOOD	F1	WOOD			
102B	101	3' - 0"	7' - 0"	1 3/4"		C		CLAD/GLASS	F1	WOOD			
103A	103	4' - 0"	7' - 0"	1 3/4"		A		WOOD	F1	WOOD			
104A	104	4' - 0"	7' - 0"	1 3/4"		B		WOOD/GLASS	F1	WOOD			
104B	104	4' - 0"	7' - 0"	1 3/4"		B		WOOD/GLASS	F1	WOOD			
105A	105	3' - 0"	7' - 0"	1 3/4"		A		WOOD	F1	WOOD			
106A	108	3' - 0"	7' - 0"	1 3/4"		A		WOOD	F1	WOOD			
107A	107	3' - 0"	7' - 0"	1 3/4"		A		WOOD	F1	WOOD			
108A	108	4' - 0"	7' - 0"	1 3/4"		C		CLAD/GLASS	F1	WOOD			
109A	109	3' - 0"	7' - 0"	1 3/4"	20 MIN.	A		WOOD	F1	WOOD			
110A	110	3' - 0"	7' - 0"	1 3/4"		A		WOOD	F1	WOOD			
111A	111	3' - 0"	7' - 0"	1 3/4"		A		WOOD	F1	WOOD			
112A	112	3' - 0"	7' - 0"	1 3/4"	20 MIN.	A		WOOD	F1	WOOD			
113A	113	6' - 0"	7' - 0"	1 3/4"		D		CLAD/GLASS	F1	WOOD			
113B	113	6' - 0"	7' - 0"	1 3/4"		D		CLAD/GLASS	F1	WOOD			



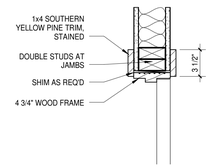
DOOR LEGEND

ALL GLASS TO BE TEMPERED GLASS

FRAME LEGEND

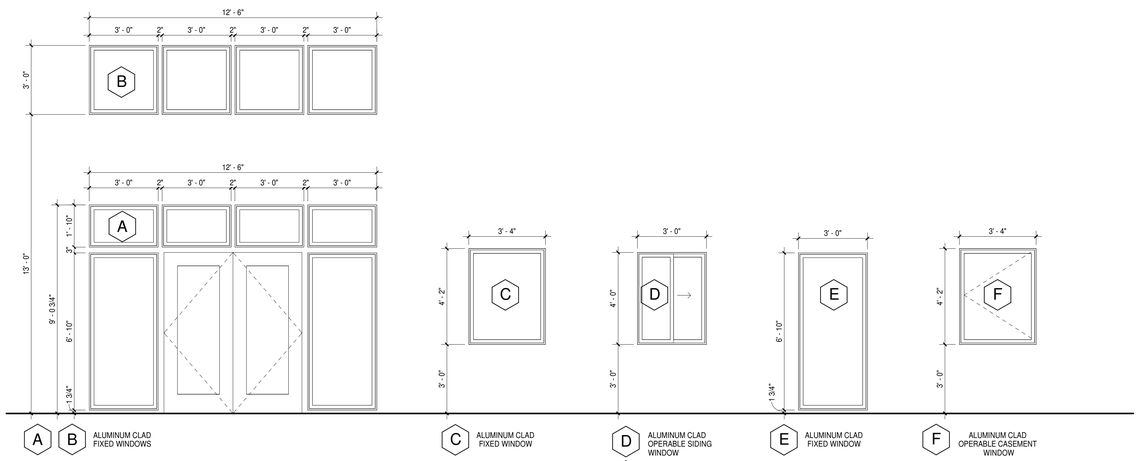


H-1



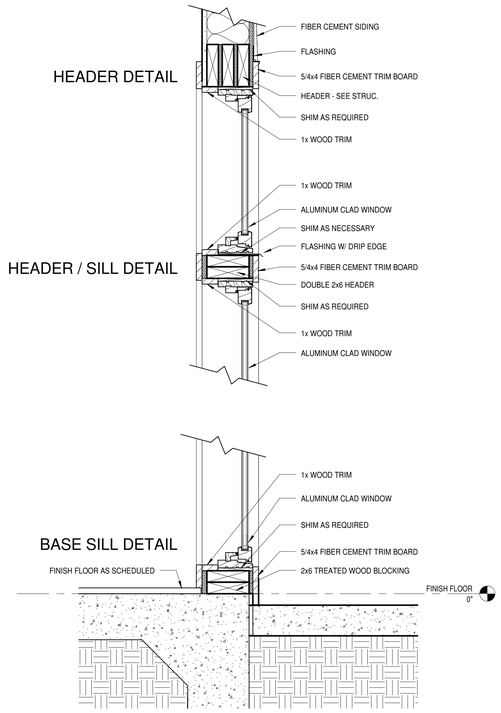
J-1

B1 / A10.11 **JAMB AND HEADER DETAIL**
1 1/2" = 1'-0"



WINDOW LEGEND

ALL GLASS TO BE TEMPERED GLASS



A1 / A10.11 **TYPICAL WINDOW DETAILS**
1 1/2" = 1'-0"

5/7/2016 4:08 PM E:\Revit Projects\015292 Greenville Camper Care Center_central_KJ.rvt
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GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	2016.06.01	BID SET	BC

BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

SHEET TITLE:
DOOR AND WINDOW SCHEDULE, DOOR AND FRAME TYPES

SHEET NO. A10.11

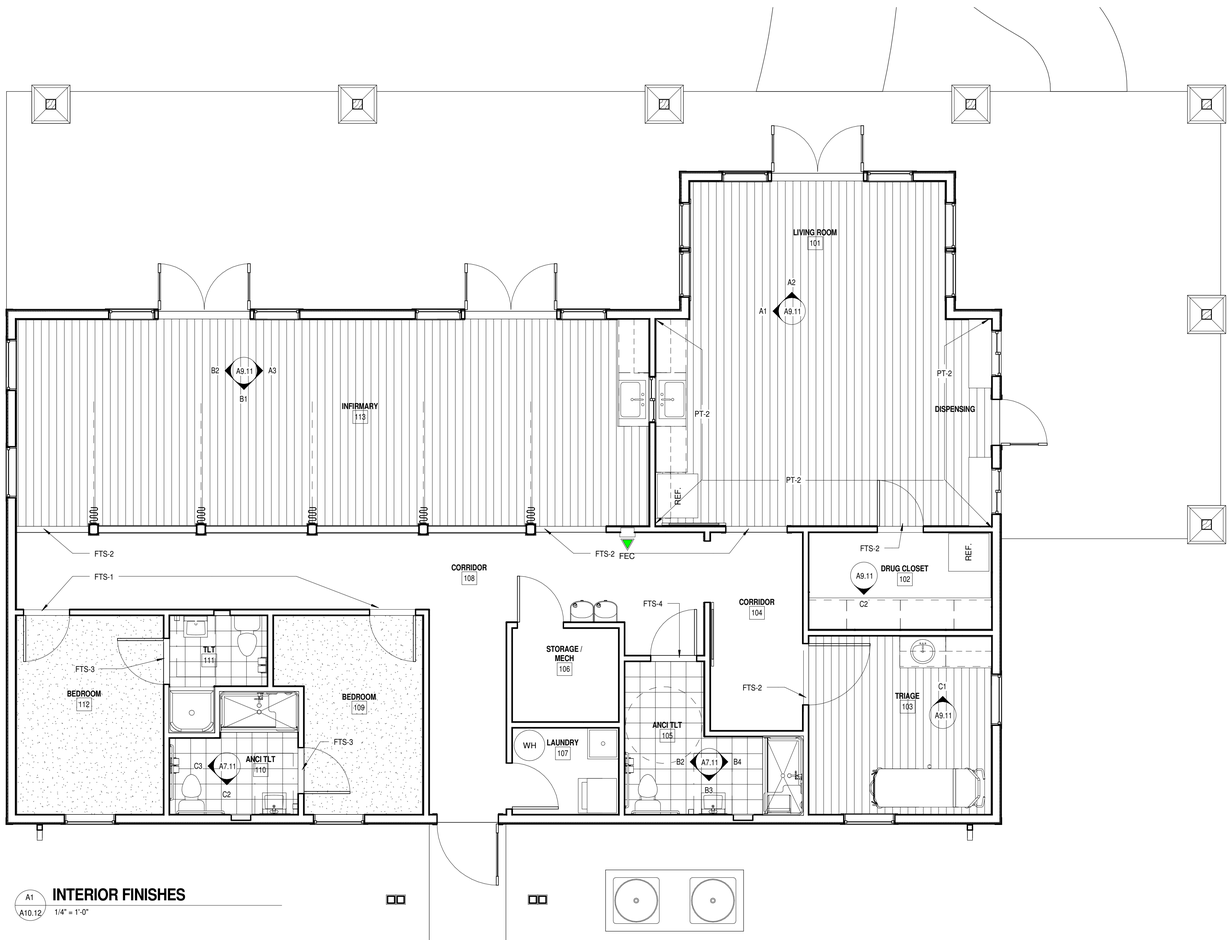
PROJ. NO. 015292.00

ROOM FINISH SCHEDULE

ROOM NO	ROOM NAME	FLOOR		WALL							CEILING				REMARKS
								WAINSCOT							
		FLOOR	BASE	NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH	HEIGHT	HEIGHT	MATERIAL	FINISH	TRIM	
101	LIVING ROOM	LVT-1	WB-1	P-1	P-1,PT-2	PT-2	P-1,PT-2	WOOD	MATCH EXISTING	6' - 0"	VAULTED	WOOD	P-5	CT-1	
102	DRUG CLOSET	CONC-1	WB-1	P-1	P-1	P-1	P-1				10'-0"	GYP. BD.	P-5	CT-1	
103	TRIAGE	LVT-1	WB-1	P-3	P-3	P-3	P-3	WOOD	MATCH EXISTING	6' - 0"	10'-0"	GYP. BD.	P-5	CT-1	
104	CORRIDOR	CONC-1	WB-1	P-1	P-1	PT-2	P-1	WOOD	MATCH EXISTING	6' - 0"	10'-0"	GYP. BD.	P-5	CT-1	
105	ANCI TLT	PT-1	PTB-1	P-3	P-3	P-3	P-3	TILE		5'-10"	9'-0"	GYP. BD.	P-5	CT-1	
106	STORAGE / MECH	CONC-1	WB-1	P-1	P-1	P-1	P-1				9'-0"	GYP. BD.	P-5	CT-1	
107	LAUNDRY	CONC-1	WB-1	P-1	P-1	P-1	P-1				9'-0"	GYP. BD.	P-5	CT-1	
108	CORRIDOR	CONC-1	WB-1	P-1	P-1	P-1	P-1	WOOD	MATCH EXISTING	6' - 0"	10'-0"	GYP. BD.	P-5	CT-1	
109	BEDROOM	CPT-1	WB-1	P-1	P-2	P-1	P-1	WOOD	MATCH EXISTING	6' - 0"	10'-0"	GYP. BD.	P-5	CT-1	
110	ANCI TLT	TILE -1	PTB-1	P-4	P-4	P-4	P-4	TILE		5'-10"	9'-0"	GYP. BD.	P-5	CT-1	
111	TLT	PT-1	PTB-1	P-4	P-4	P-4	P-4	TILE		5'-10"	9'-0"	GYP. BD.	P-5	CT-1	
112	BEDROOM	CPT-1	WB-1	P-1	P-1	P-1	P-2	WOOD	MATCH EXISTING	6' - 0"	10'-0"	GYP. BD.	P-5	CT-1	
113	INFIRMARY	LVT-1	WB-1	P-1	P-1	NA	P-1	WOOD	MATCH EXISTING	6' - 0"	10'-0"	GYP. BD.	P-5	CT-1	WOOD CEILING ALTERNATE

FINISH MATERIAL LEGEND

Material	KEY	MANUFACTURER	PATTERN / ITEM NO	COLOR	SIZE	FINISH	NOTES
CARPET							
CARPET	CPT-1	MILLIKEN	COLOR FIELD / COL114	SORREL	25CM X 1M		PLANKS
CEILING TRIM							
CEILING TRIM	CT-1		SOUTHERN YELLOW PINE	NO. 1 GRADE	1X6	STAINED	STAIN W/ 1ST COAT OF PREMIUM INTERIOR STAIN AND 2ND COAT OF PREMIUM OIL BASED POLYURETHANE SEMI GLOSS FINISH
CONCRETE							
CONCRETE	CONC-1		STAIN		-	CLEAR	
EXTERIOR PAINT							
EXTERIOR PAINT	EXP-1	SEE SPECS		TBD			TRIM
EXTERIOR PAINT	EXP-2	SEE SPECS		TBD			SIDING
FLOORING TRANSITION STRIP							
FLOORING TRANSITION STRIP	FTS-1	JOHNSONITE	CCA-XX-J	TBD			CARPET TO CONCRETE
FLOORING TRANSITION STRIP	FTS-2	JOHNSONITE	SSR-XX-B	TBD			LVT TO CONCRETE
FLOORING TRANSITION STRIP	FTS-3	SCHLUTER	SCHEINE	BRUSHED ALUM			TILE TO CARPET
FLOORING TRANSITION STRIP	FTS-4	SCHLUTER	RENO-RAMP	BRUSHED ALUM			TILE TO CONCRETE
LUXURY VINYL TILE							
LUXURY VINYL TILE	LVT-1	CENTIVA EVENT	WOOD PLANK	TBD	6" x 36"		PLANKS
PAINT							
PAINT	P-1	SHERWIN WILLIAMS	INTERIOR WATERBASED ACRYLIC-ALKYD ENAMEL	DOWNING SAND SW2822		SATIN	
PAINT	P-2	SHERWIN WILLIAMS	INTERIOR WATERBASED ACRYLIC-ALKYD ENAMEL	DOWNING EARTH SW2820		SATIN	
PAINT	P-3	SHERWIN WILLIAMS	INTERIOR WATERBASED ACRYLIC-ALKYD ENAMEL	DOWNING STONE SW2801		SATIN	
PAINT	P-4	SHERWIN WILLIAMS	INTERIOR WATERBASED ACRYLIC-ALKYD ENAMEL	DOWNING STONE SW2801		EGSHEL	TOILET ROOMS
PAINT	P-5	SHERWIN WILLIAMS	INTERIOR WATERBASED ACRYLIC-ALKYD ENAMEL	TBD		MATTE	CEILINGS
PLASTIC LAMINATE							
PLASTIC LAMINATE	PL-1	WILSONART	BURNISHED CHESTNUT	4796-60		MATTE FINISH	VERTICAL SURFACES
PLASTIC LAMINATE	PL-2	WILSONART	GREEN SOAPSTONE	4885-38		FINE VELVET	COUNTERTOPS
PORCELAIN TILE							
PORCELAIN TILE	PT-1	DALTILE	AYERS ROCK	RUSTIC REMNANT	13" x 13" x 3/8"		FLOOR & WALL; 3/16" GROUT JOINT;
PORCELAIN TILE BASE							
PORCELAIN TILE BASE	PTB-1	DALTILE	AYERS ROCK	RUSTIC REMNANT	6" X 13"		COVE BASE
PORCELAIN TILE TRIM							
PORCELAIN TILE TRIM	PTT-1	DALTILE	AYERS ROCK	RUSTIC REMNANT	3" X 13"		BULLNOSE
WAINSCOT							
WAINSCOT	WC-1		SOUTHERN YELLOW PINE BEAD BOARD	NO. 1 GRADE	1/4" THICKNESS	STAINED	STAIN W/ 1ST COAT OF PREMIUM INTERIOR STAIN AND 2ND COAT OF PREMIUM OIL BASED POLYURETHANE SEMI GLOSS FINISH
WOOD BASE							
WOOD BASE	WB-1	-	SOUTHERN YELLOW PINE	NO. 1 GRADE	1 x 6	STAINED	STAIN W/ 1ST COAT OF PREMIUM INTERIOR STAIN AND 2ND COAT OF PREMIUM OIL BASED POLYURETHANE SEMI GLOSS FINISH



A1 A10.12 **INTERIOR FINISHES**
1/4" = 1'-0"

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STATE OF SOUTH CAROLINA
McMILLAN PAZDAN SMITH, LLC
GREENVILLE, SC
100573
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GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	2016.06.01	BID SET	BC

BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

SHEET TITLE:
FINISH SCHEDULE

SHEET NO. A10.12

PROJ. NO. 015292.00

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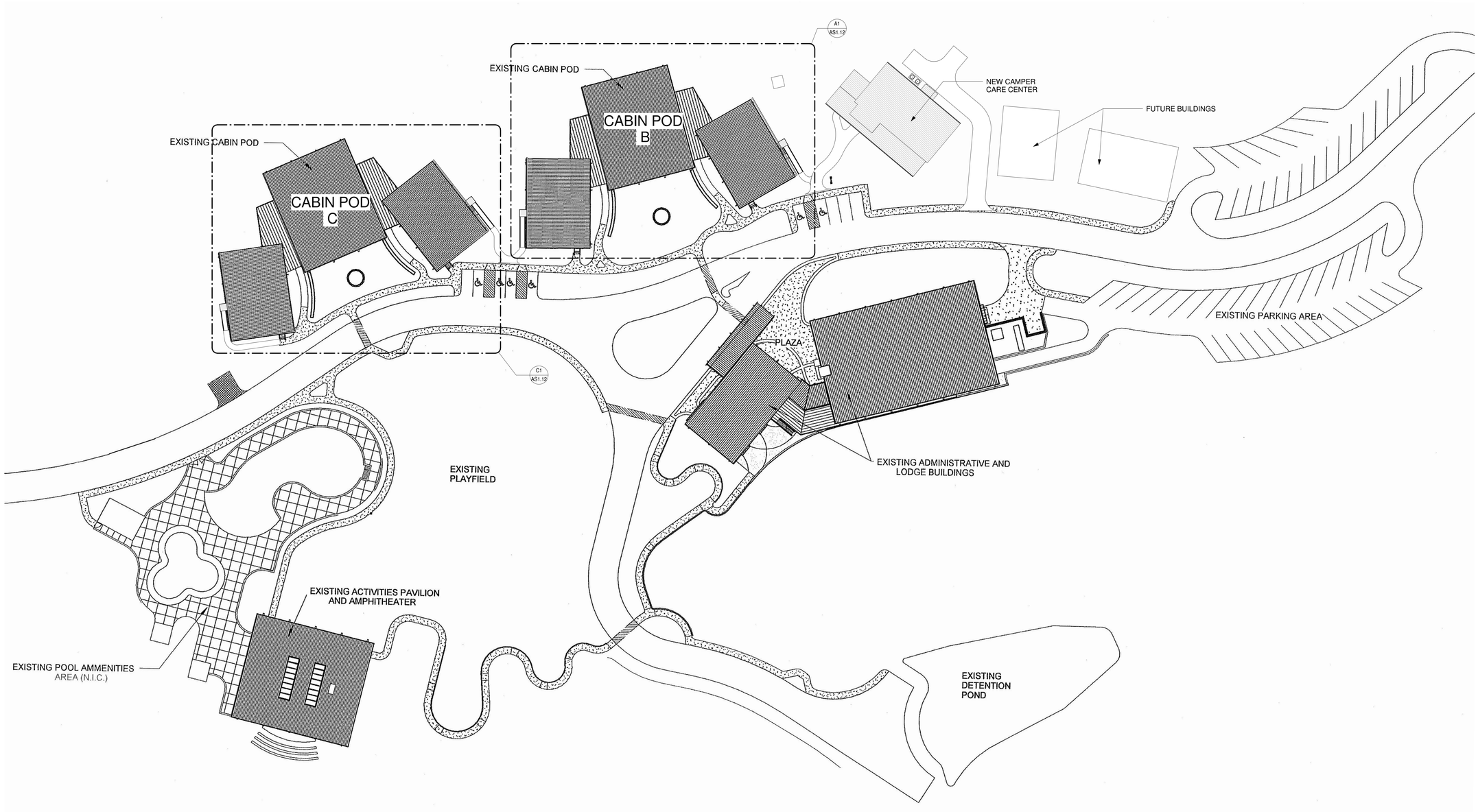

1 / AS1.11 **NEW ADA RAMP LOCATIONS**

1" = 30'-0"

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GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CENTER

MARIETTA, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	2016.06.01	BID SET	BC

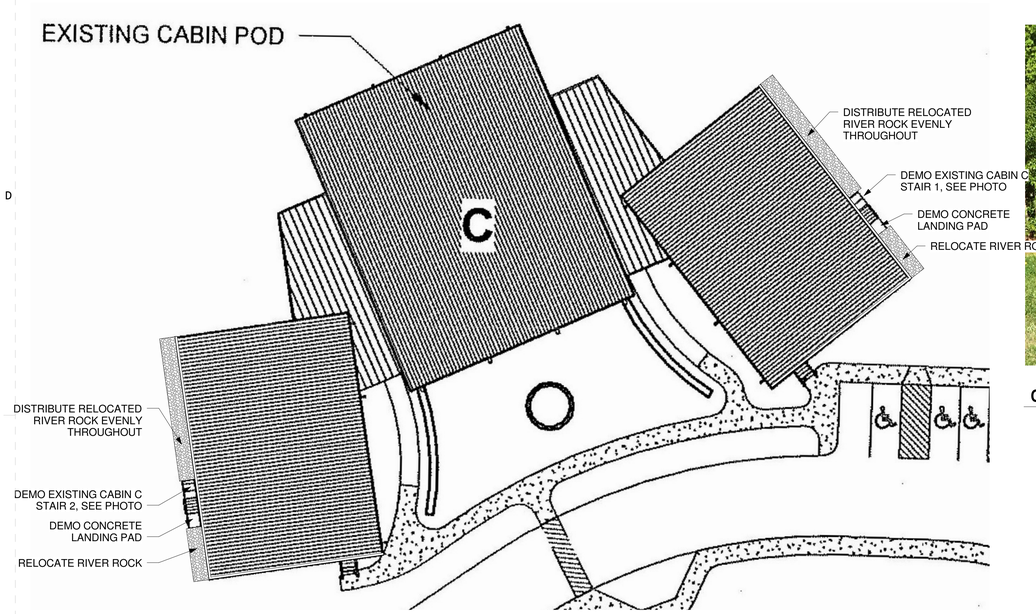
BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

SHEET TITLE:
ADA RAMP LOCATION PLAN

SHEET NO. AS1.11

PROJ. NO. 015292.00



C1 / AS1.12 **CABIN C DEMO PLAN**
1/16" = 1'-0"

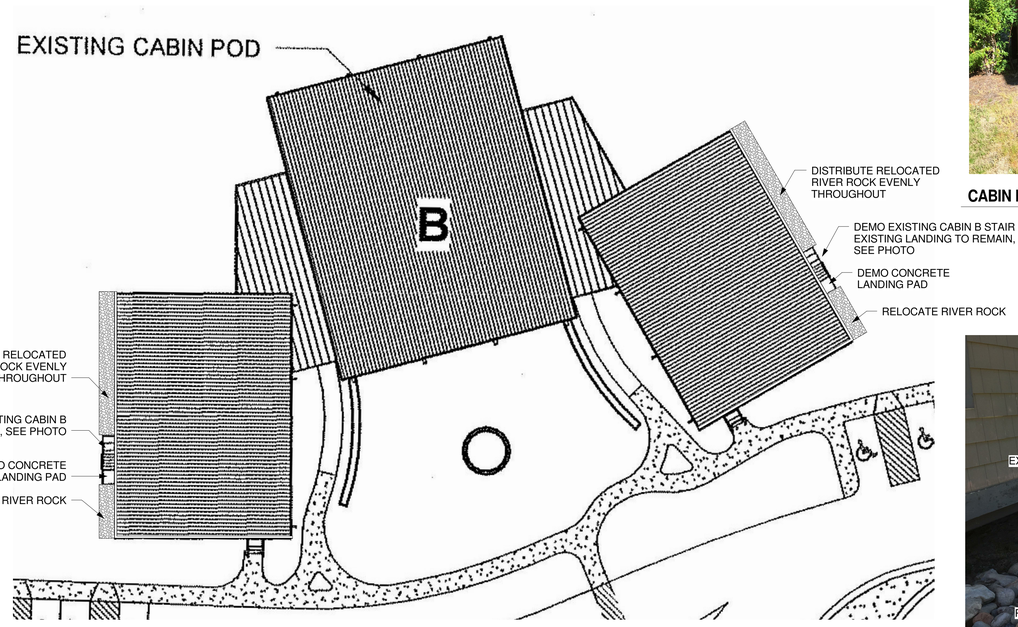
CABIN C STAIR 2 EXISTING PHOTOS

CABIN C STAIR 1 EXISTING PHOTOS

GENERAL DEMO NOTES:

DEMO EIXSTING STAIRS, RAILINGS AND CONCRETE PADS TYP.

RELOCATE RIVER ROCK TO NEW CAMPER CARE CENTER AS SHOWN ON A4.11. REMAINING RIVER ROCK TO BE DISTRUBUTED EVENLY THROUGHOUT EXISTING RIVER ROCK BEDS.



A1 / AS1.12 **CABIN B DEMO PLAN**
1/16" = 1'-0"

CABIN B STAIR 2 EXISTING PHOTOS

CABIN B STAIR 1 EXISTING PHOTOS

5/17/2016 4:01:18 PM E:\Mcm-Local Projects\015292.00 Greenville County Camper Care Ctr_Kjohnson.rvt
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DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, SC

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1	2016.06.01	BID SET	BC

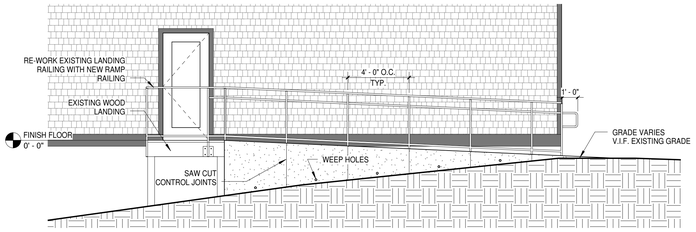
BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

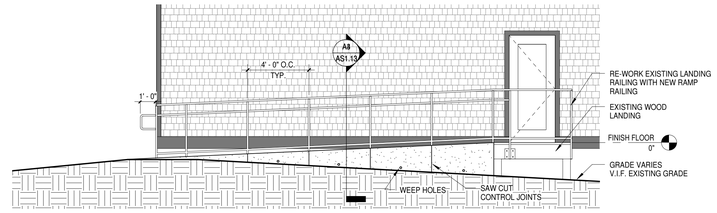
SHEET TITLE:
CABIN STAIR DEMO PLANS

SHEET NO. AS1.12

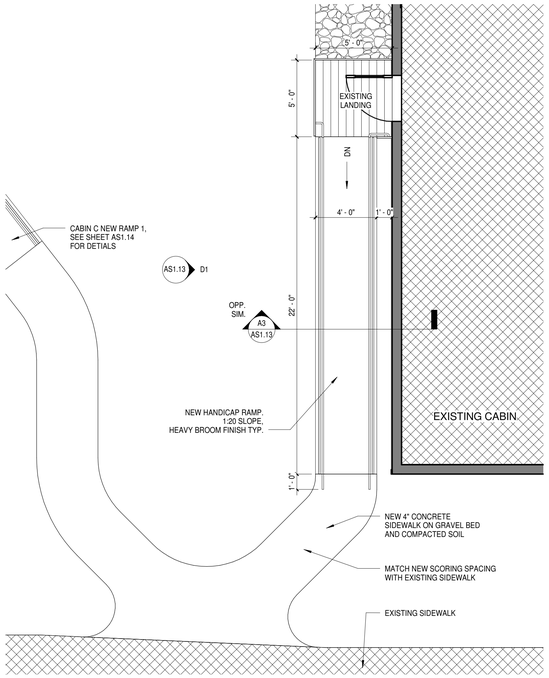
PROJ. NO. 015292.00



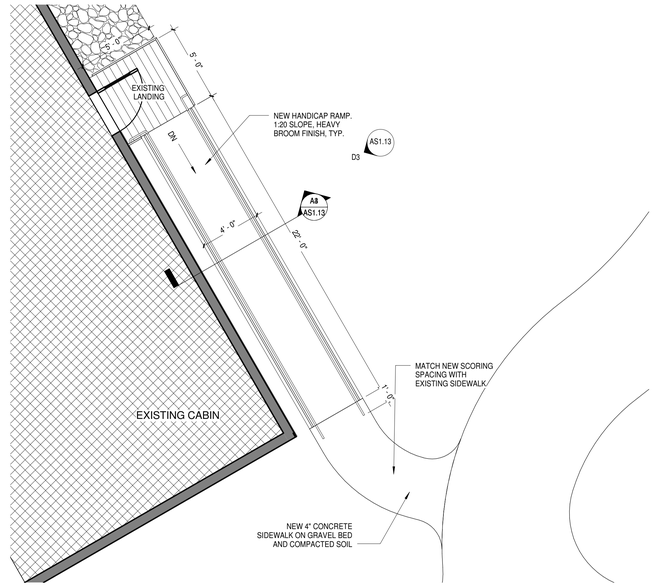
D1 / AS1.13 **CABIN B RAMP 2 ELEVATION**
1/4" = 1'-0"



D3 / AS1.13 **CABIN B RAMP 1 ELEVATION**
1/4" = 1'-0"

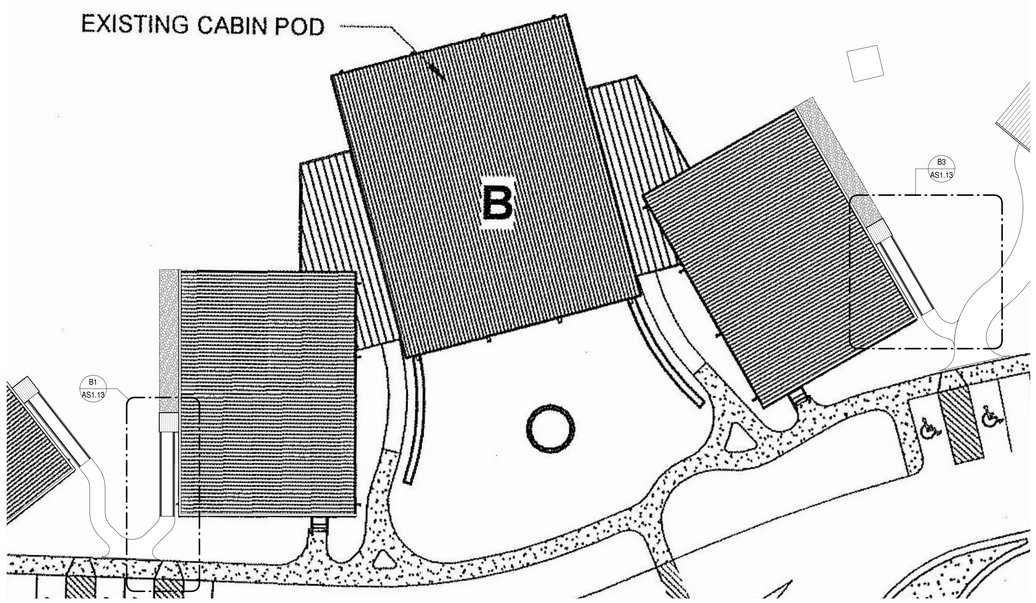


B1 / AS1.13 **CABIN B NEW RAMP 2**
1/4" = 1'-0"



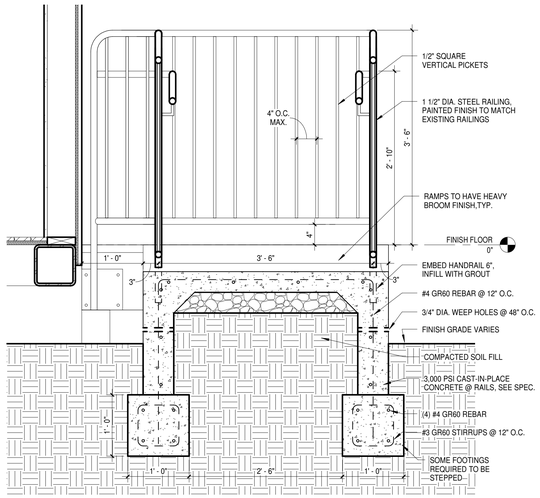
B3 / AS1.13 **CABIN B NEW RAMP 1**
1/4" = 1'-0"

B4 / AS1.13 **EXISTING RAILING DETAILS**
NOT TO SCALE

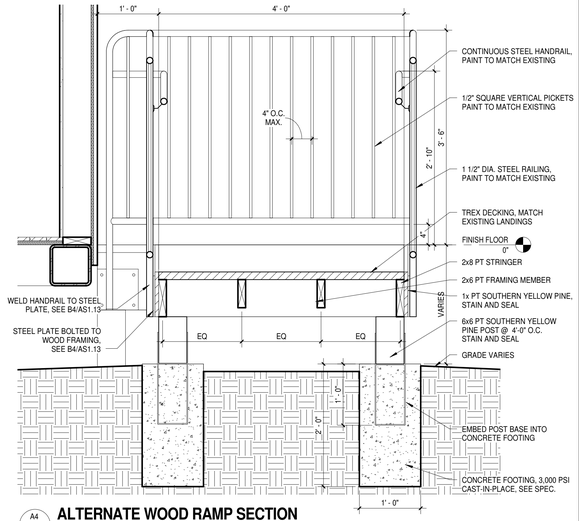


A1 / AS1.13 **CABIN B NEW PLAN**
1/16" = 1'-0"

* NOTE: VERTICAL PICKETS REQUIRED IN RAILING DESIGN. NOT SHOWN IN ELEVATIONS FOR CLARITY.



A3 / AS1.13 **TYPICAL RAMP SECTION**
1" = 1'-0"



A4 / AS1.13 **ALTERNATE WOOD RAMP SECTION**
1" = 1'-0"

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STATE OF SOUTH CAROLINA — EARLE G. HUNGERFORD — GREENVILLE, SC — 05029 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — McMILLAN PAZDAN SMITH, LLC — GREENVILLE, SC — 100573 — REGISTERED ARCHITECTS

GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	2016.06.01	BID SET	KC

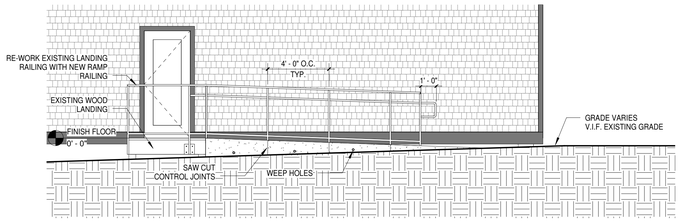
BID SET 2016.06.01

PRINCIPAL IN CHARGE: KJ
PROJECT ARCHITECT: EH
DRAWN BY: BC

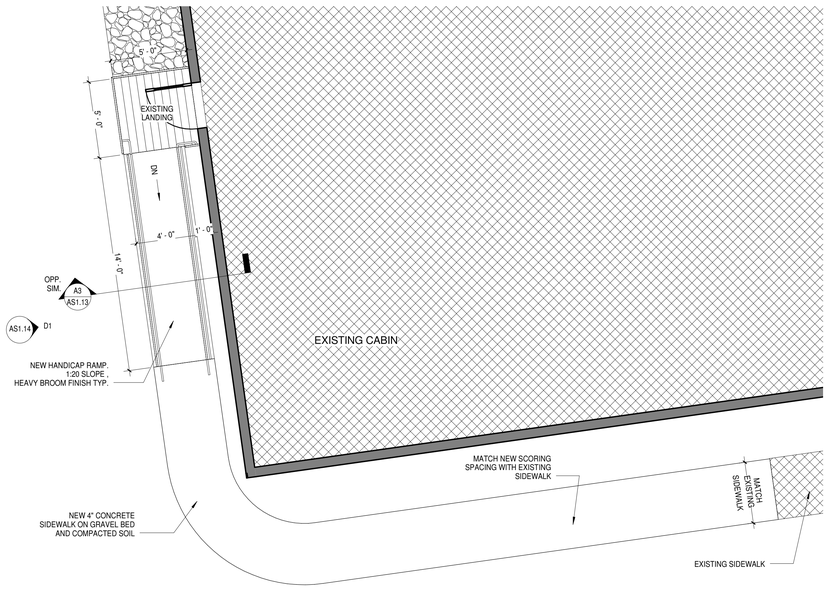
SHEET TITLE:
CABIN B RAMP PLANS AND DETAILS

SHEET NO. AS1.13

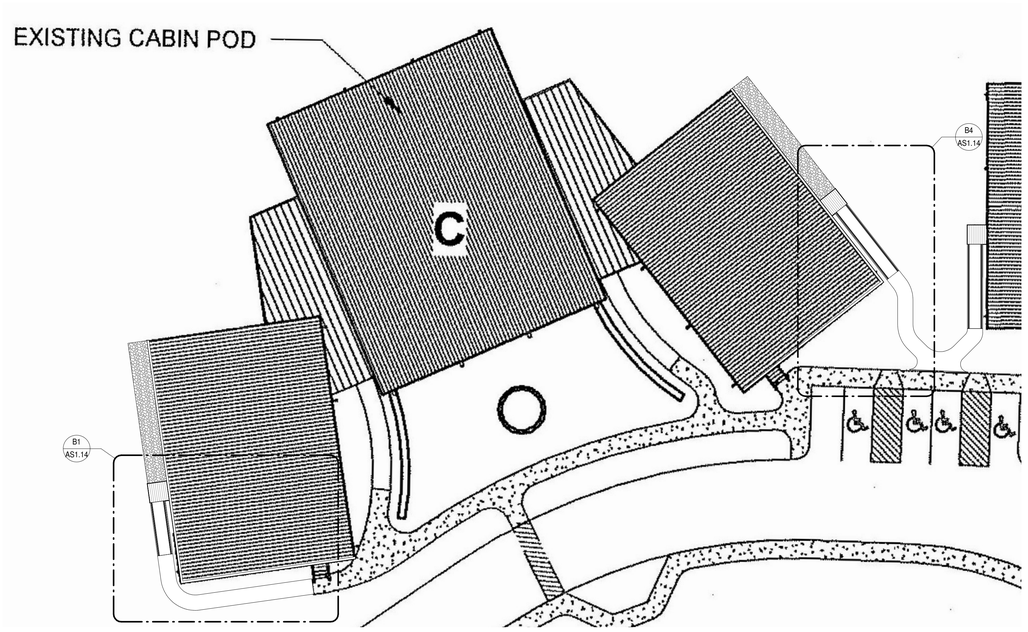
PROJ. NO. 015292.00



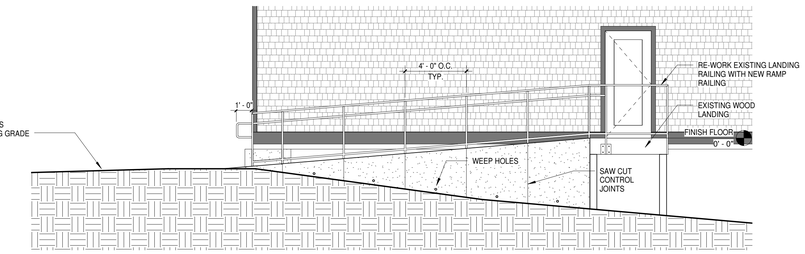
D1 / AS1.14 **CABIN C RAMP 2 ELEVATION**
1/4" = 1'-0"



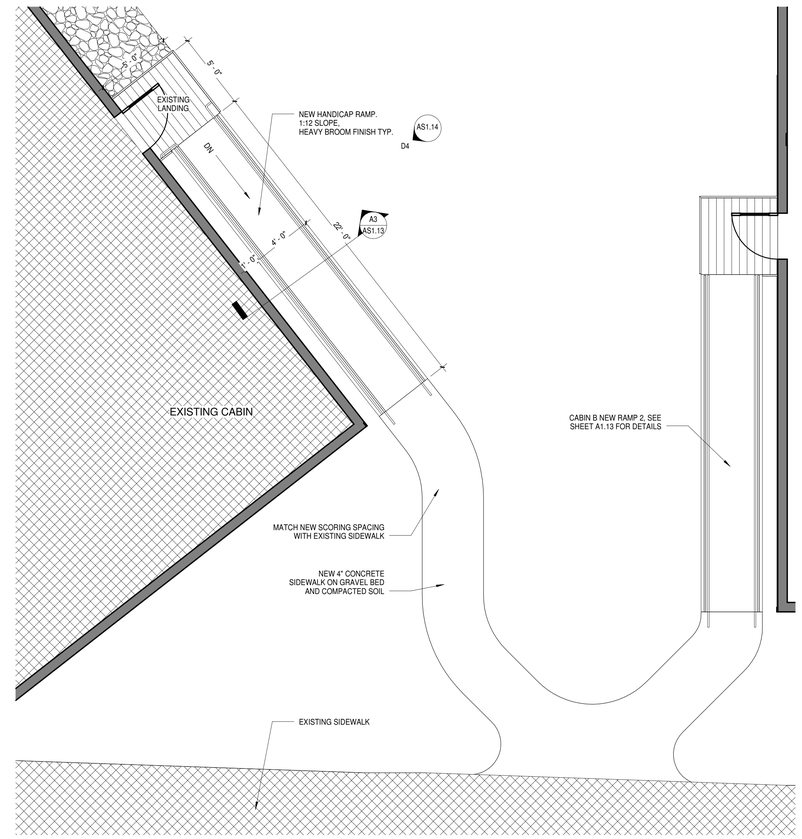
B1 / AS1.14 **CABIN C NEW RAMP 2**
1/4" = 1'-0"



A1 / AS1.14 **CABIN C NEW PLAN**
1/16" = 1'-0"



D4 / AS1.14 **CABIN C RAMP 1 ELEVATION**
1/4" = 1'-0"



B4 / AS1.14 **CABIN C NEW RAMP 1**
1/4" = 1'-0"

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SHEET TITLE:
CABIN C RAMP PLANS AND DETAILS

SHEET NO. AS1.14

PROJ. NO. 015292.00

11/25/2015 8:32:44 AM Z:\AA\Projects\MPS- McMillan Pazdan Smith\15-MPS-99_Greenville County Healthhut\15-MPS-99 HEALTH HUT STRUCTR15.rvt
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01000 GENERAL

1. The structure reflected on the drawings is structurally sound in its completed condition only. The design of any and all temporary shoring and bracing prior to the completed condition shall be the contractor's responsibility. The Structural Engineer of Record (EOR) shall not be responsible for the means, methods, techniques, sequences, procedures nor safety programs which are empolyed by the contractor to build the completed structure. Any deviations from the completed structure represented in the drawings must be submitted to the EOR for approval in writing.
2. The Contractor shall verify all conditions including exsisting structures (above and below grade) and shall notify of the EOR of any discrepancies. The Contractor shall perform all required field measurements.
3. The Sections and Details shown shall be considered to be typical for all similar conditions. The Contractor shall submit written Requests for Information for areas in question.
4. The Contractor shall submit shop drawings for each of the structural components shown on the drawings. Four copies of the shop drawings shall be submitted to the Architect for distribution.

03000 FOUNDATIONS:

1. The Contractor shall notify the Structural Engineer of Record (EOR) of any below grade structure which may affect the foundation performance.
2. Foundations shall bear on residual soils or engineered fill capable of supporting an allowable pressure of 3,000 psf. Soils shall be stable, and any expansive, compressible, or shifting material shall be removed to ensure a stable moisture content. Slabs on grade are designed for a modulus of subgrade reaction of 125 pci using a K = 30. Geotechnical Dated October 19, 2015 for fill placement and compaction requirements required to obtain these design parameters.

03300 CAST-IN-PLACE CONCRETE:

1. All concrete work and materials shall be in accordance with ACI 318 2002 and ACI 301.
2. Minimum Material Specifications:
   a. Portland Cement: ASTM C150, Type 1
   b. Fly Ash: ASTM C 618, Type F (limit to 20% of cementitious content)
   c. Maximum water/cementitious material ratio: 0.5.
   d. No water may be added at the site without consent of the engineer.
3. Foundations:
   a. Foundations shall have a 28 day compressive strength of 3000 psi.
4. Slabs-on-grade:
   a. Interior slabs-on-grade shall have a 28 day compressive strength of 3000 psi and shall be reinforced with Welded Wire Fabric, Located within 1 1/2" of the Top Surface.
   b. Slab edges to be permanently exposed to view shall be rubbed, patching all honeycombing and voids.
   c. Interior slabs to receive a hard steel trowel finish with overall Ff =35 and FL=25, and minimum local values of Ff = 24 and Fl = 17.
   d. Exterior slabs (under roof or floor) shall have air entraining admixture to provide 6% entrained air. Chamfer all exposed slab edge corners (3/4"). Ligth Broom Finish in direction of slope.
   e. Slabs shall be wet cured for a period of seven days. Maintain moisture by ponding, fogging, spraying or other means.
   f. Vapor barrier under slab shall meet permeability requirements of the floor finishes. As a minimum, a 15 mil vapor barrier is required, lapping and sealing all seams.
   g. Provide sawcut control joints or construction joints as shown on the drawings. Cut 1" joints as soon as possible after finishing (within 8 hours of placement).
   h. Provide isolation joints at column boxouts, walls, and penetrations.
   i. Reinforce at all re-entrant corners with no control joints with (2) #3 x 4'-0" long centered on the corner, located in the top of the slab. Reinforce around all pipe or box penetrations greater than 3" with (4) #3 in diamond pattern.
   j. Specification of exterior concrete paving or sidewalks is by the Civil Engineer.
   k. Concrete splatter on walls or adjacent slabs shall be removed.
7. Reinforcing Steel:
   a. All detailing, fabrication, and placing shall be in accordance with ACI 315.
   b. Reinforcing steel shall be new billet bars conforming to ASTM A615, grade 60.
   c. Provide 3" concrete cover for all concrete cast against earth.
8. Post-Installed Anchors
   a. Epoxy or chemical adhesive shall be Ramset Epcon A7 or C6; Hilti HY 150; or Simpson SET Epoxy-TIE.
   b. Anchors labeled as LDT anchors are to be hot-dip galvanized anchors with cutting threads such as Ramset/Redhead LDT; Simpson Titen HD; or Powers Wedge.

06100 ROUGH CARPENTRY

1. Structural framing lumber shall conform to the minimum material properties listed in the National Design Specification for Wood Construction (2008) for the sizes, species, and grades listed below:
   a. Exterior Stud Walls: SPF #2. Minimum Bending Stress = 875 psi.
   b. Interior Stud Walls: SPF #2.
   c. For multi-stud columns or double stud conditions, attach stud-to-stud with 16d nails at 12" o.c vertically.
   d. Headers in exterior walls: Yellow Pine #2 or better.
   e. Headers in interior walls: Yellow Pine #2 or better.
2. Laminated Veneer Lumber (LVL) shall meet or exceed the following properties:
   a. Modulus of Elasticity, E: 2,000,000 psi
   b. Bending Stress, Fb; 2,900 psi
   c. Horizontal Shear, Fv: 285 psi
   d. Compression Parallel, Fc: 2,750 psi.
   e. Multi-member headers shall be connected together with (4) 16d nails at 12" o.c.
3. Bolts shall conform to ASTM A307. Steel connection plates shall conform to ASTM A36.
4. Nail shank sizes and lengths are as specified for the penny weights on the drawings:
   a. 6d 0.113" diameter, 2" long
   b. 8d 0.131" diameter, 2.5" long
   c. 10d 0.148" diameter, 3" long
   d. 16d 0162" diameter, 3.5" long
5. CONNECTORS FOR TREATED LUMBER
   a. Any connectors (hangers, straps, nails, bolts, etc) in contact with treated lumber must be hot-dip galvanized (G90).
6. BEARING WALL CONSTRUCTION
   a. Sill plates shall be treated with Copper Azole (CA), Alkaline Copper Quat (ACQ), or Sodium Borate (SBX). Treatment to be per preservative manufacturer's recommendation. At a minimum, sill plates for exterior walls and bearing walls to be bolted to foundation with hot-dip galvanized 1/2" diameter, 8" embedment "j" bolt at 4'-0" o.c. and at wall ends. ITW Buildex Ramset/Readhead LDT anchors or Simpson Titen HD anchors with 5 1/2" Embeddment can be substituted for hooked anchor rods.
   b. Sheath walls with ½" rated sheathing (7/16" OSB is acceptable), nailing to studs, sills, and headers at 6" o.c. at panel edges and 12" o.c. elsewhere.
   Nails to be 10d ring shank nails. Nail to sill plate and top plates at 4" o.c. Block all edges.
   c. Balloon Frame gable end walls. Review with engineer prior to construction.
7. ROOF CONSTRUCTION
   a. Roof to be sheathed with 3/4" Nominal 24/48 rated sheathing, grade C-D, Exposure 1 nailed to rafters or trusses with 10d ring shank nails at 6" o.c. at panel
   edges and 12" o.c. elsewhere. Provide plywood clips at each rafter or truss space.
   b. Rafters to be SYP#2 or better.
   c. Provide blocking between rafters or between trusses at all valleys and ridges. Nail sheathing to blocking at 6" o.c.
   d. At hipped ends where trusses are dropped 1-9/16" for 2x4 purlins, the purlins must be attached to the top chord of the dropped trusses with Simpson H2.5 anchors.
   e. Attachment of Piggy back trusses to base trusses must be clearly shown on truss erection drawings.
   f. Metal Plate Connected Wood Trusses
      i. Design by fabricator shall be in accordance with the applicable provisions of the latest edition of the American Forest & Paper Association's (AF&PA's) *National Design Specification® (NDS®) for Wood Construction*, ANSI/TPI 1, and all applicable legal requirements. Truss Manufacturer shall furnish Truss Design Drawings and a Truss Placement Plan. See the roof framing plan and design criteria for design loads. Deflection criteria of L/360 (LL) and L/240 (total) shall be calculated with pin/roller support conditions and one end moving laterally 1" max.
      ii. If needed, trusses shall be supplied with bearing enhancing hardware to distribute support reactions to supporting wall plates such that bearing pressure does not exceed 425 psi.
      iii. The design and placement drawings shall include as a minimum:
         1. Slope, span, and spacing
         2. Location of joints
         3. Required bearing widths
         4. Design loads (top and bottom chord live and dead loads, wind uplift forces at bearing)
         5. End Reactions and directions
         6. Lumber grades, sizes, and species
         7. Truss to truss girder, truss ply to ply, and field assembly connections (manufacturer to design and supply)
         8. Deflections (horizontal and vertical)
         9. Size, connections, and anchorage of the permanent continuous lateral bracing required for axial force buckling resistance.
      iv. Lumber shall be Yellow Pine #2 or better for chords and webs. Lumber shall have moisture content of no less than 7% at time of manufacturing. Adjustment factors shall be in accordance with NDS
      v. Metal connector plates shall be manufactured by a Wood Truss Council of America ("WTCA") member plate manufacturer and shall not be less than 0.036 inches in thickness (20 gauge) and shall meet or exceed ASTM A653/A653M grade 33, and galvanized coating shall meet or exceed ASTM A924/924M, coating designation G60. Working stresses in steel are to be applied to effectiveness ratios for plates as determined by test and in accordance with ANSI/TPI 1.
      vi. Trusses shall be handled during manufacturing, delivery and by the Contractor at the job site so as not to be subjected to excessive bending. Unload trusses in a manner to minimize lateral strain.
      vii. Contractor shall be responsible for the handling, installation, and temporary bracing of the Trusses in a good workmanlike manner and in accordance with the recommendations set forth in WTCA/TPI's *Building Component Safety Information BCSI 1-03: Guide to Good Practice For Handling, Installing & Bracing of Metal Plate Connected Wood Trusses*.
         1. Bracing/Shoring plans if required by the Building Official shall be submitted by the contractor, prepared by a Professional Engineer.
      viii. Cutting and altering of Trusses is not permitted. If any Truss should become broken, damaged, or altered, written concurrence and approval by a licensed design professional is required.
      ix. Trusses shall be permanently braced in a manner consistent with good building practices and in accordance with sections in the drawings. Trusses shall furthermore be anchored or restrained to prevent out-of-plane movement so as to keep all Truss members from simultaneously buckling together in the same direction. Such permanent lateral bracing shall be accomplished by: (a) anchorage to solid end walls; (b) permanent diagonal bracing in the plane of the web members; or (c) other suitable means. Materials for temporary and permanent bracing shall be by the contractor.
      x. Full depth blocking or x-bridging is required over all exterior walls where heel height exceed 10". Nail blocking to top plates and top chord of truss.
      xi. All specified uplift connection hardware capacities shall be reviewed by the contractor using the final truss shop drawings and calculations. The uplift capacity shall exceed the uplift given on the shop drawings.

061323 HEAVY TIMBER CONSTRUCTION

a. Timber Standard: Comply with AITC 108, "Standard for Heavy Timber Construction".
b. Forest Certification: Provide wood products obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship".
c. Timbers, and connections shall withstand the effects of the structural loading from the stick framing bearing on the timbers..
   i. The Supplier shall provide details for beam-to-beam, beam-to-wall, and post-to-beam connections.
   ii. Minimum truss member sizes are shown on the drawings.
d. Material Specifications
   i. Timber Species and Grade: Douglas fir-larch or Southern Pine #1 or better and as required by design.
   ii. Timber shall comply with DOC PS 20 and with grading rules of lumber grading agencies certified by ALSC's Board of Review.
      a. Apply grade stamped that will not be exposed to view.
   iii. Timber shall have a moisture content of 19% or less at time of dressing.

e. Fabrication
   i. Dress exposed surfaces (S4S)
   ii. End Cut Sealing: Immediately after end cutting each member to final length, apply a saturation coat of end sealer to ends and other cross-cut surfaces, keeping surfaces flood coated for not less than 10 minutes.
   iii. Seal Coat: After fabricating, sanding, and end-coat sealing, apply a heavy saturation coat of penetrating sealer on surfaces of each unit.
f. Installation
   i. General: Erect structural timber true and plumb, and with uniform, close-fitting joints. Provide temporary bracing to maintain lines and levels until permanent supporting members are in place.
      1. Lift with padded slings and protect corners with wood blocking.
      2. Install timber connectors in the factory to insure a good fit. Number each connector, and the corresponding side of the wood member for re-assembly in the field. Place keyed number marks in a place that will not be exposed to view in the final installation.
   ii. Fit structural timber by cutting and restoring exposed surfaces to match specified surfacing and finishing.
      1. Predrill for fasteners using timber connectors as templates.
      2. Dress exposed surfaces as needed to remove planing and surfacing marks.
      3. Coat cross cuts with end sealer.
   iii. Cutting: Avoid cutting after fabrication. Where field fitting is unavoidable, comply with requirements for shop fabrication.
   iv. Adjusting
      1. Repair damaged surfaces and finishes after completing erection. Replace damaged structural timber if repairs are not approved by Architect.
   v. Protection
      1. Do not remove wrappings on individually wrapped members until they no longer serve a useful purpose including protection from weather, sunlight, soiling, and damage from work of other trades.
         a. Slit underside of wrapping to prevent accumulation of moisture inside the wrapping.

g. Shop Drawings
   i. Shop drawings shall include layout, connections, material specifications, and handling requirements.

Building Code
2012 International Building Code

Building Use
Business

Risk Category II

Vertical Loads

Dead Loads at Roof	
Composite Shingles	3 psf
5/8" Wood Decking, Insulation	3 psf
Framing	4 psf
Collateral	8 psf
Live Loads at Roof	
Occupancy (Reducible of Area, Slope)	20 psf
Live Loads at Floor	
Office	50 psf
Stairs	100 psf
Snow Loads	
Ground Snow Load	10 psf
Importance Factor	1.0
Rain on Snow Surcharge	5 psf
Design Snow Load (No surcharge)	7.2 psf

LATERAL LOADS

Wind Loads	
Velocity (Strength Level Speed)	115 mph
Velocity (ASD Method)	89 mph
Exposure	B
Enclosed Building	
Internal Pressure Coefficient	+/-0.18

Components and Cladding (ASD LEVELS)
Wall Interior Zones (ht, areas, pressures)
30', 10 sf, 18 psf, -19 psf
30', 100 sf, 15 psf, -17 psf

Wall Corner Zones (7'-0" from exterior corners)
30', 10 sf, 18 psf, -24 psf
30', 100 sf, 15 psf, -18 psf

Roof Components Loads (6'-0" band)
30', 10 sf, -19 psf (Zone 1), - 33 psf (Zone2),
-47 psf (Zone 3)

Seismic Loads	
Risk Category	II
Ss, Short Term Spectral Response	0.28
S1, 1 second Spectral Response	0.11
Site Class (Confirmed)	D
Response Modification Coefficient (Light Framed Walls of Wood)	6.5
Spectral Response, Sds	0.28
Spectral Response, Sd1	0.17
Design Category	C
Analysis Type	ELF

Arrowood & Arrowood, PC
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A&A PROJECT: 15-MPS-99

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CONSULTANT LOGO
arrowood + arrowood

SEALS
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 20477 ANTHONY JOHN ARROWOOD 11-25-15
SOUTH CAROLINA ARROWOOD & ARROWOOD, PC No. C03036 CERTIFICATE OF AUTHORIZATION

GREENVILLE COUNTY
DR. CARY E. STROUD CAMPER CARE CENTER
MARIETTA, S.C.

SHEET ISSUE:

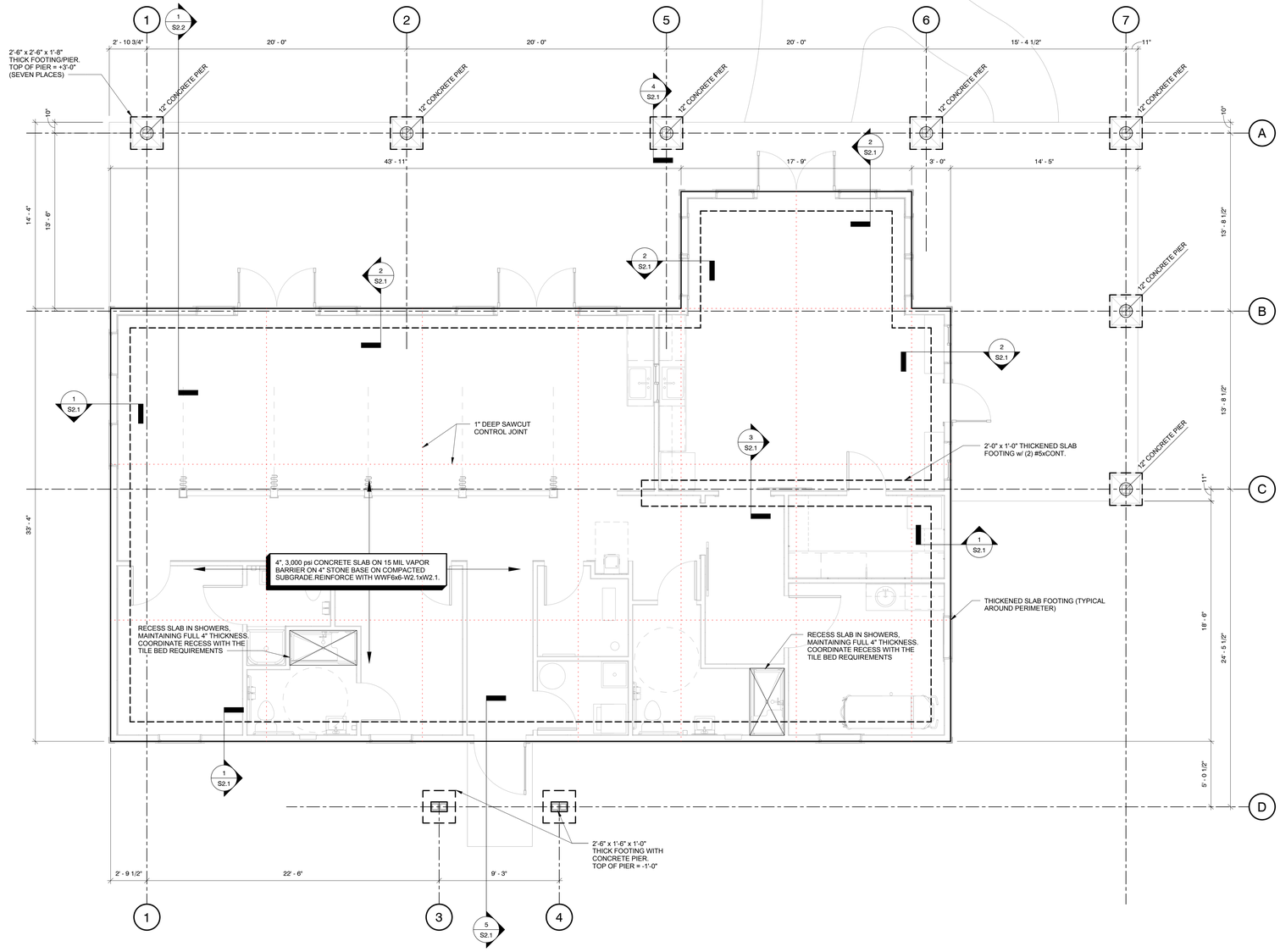
NO.	DATE	DESCRIPTION	BY
O	11/25/2105	PERMIT	AJA

PERMIT 11/25/2105

PRINCIPAL IN CHARGE:	AJA
PROJECT ARCHITECT:	AJA
DRAWN BY:	AP/WB

SHEET TITLE:
GENERAL NOTES & DESIGN CRITERIA

SHEET NO. S1.0
PROJ. NO. 015292.00



1 S1.1 FOUNDATION / SLAB PLAN

1/4" = 1'-0"

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412-B Pettigru Street
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CONSULTANT LOGO

arrowood + arrowood

SEAL

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 20477 11-25-15 AUTHENTICATION

SOUTH CAROLINA ARROWOOD & ARROWOOD, PC No. C03036 CERTIFICATE OF AUTHORITY

GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, S.C.

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

PRINCIPAL IN CHARGE: AJA
PROJECT ARCHITECT: AJA
DRAWN BY: AP/WB

SHEET TITLE:

FOUNDATION / SLAB PLAN

SHEET NO. S1.1

PROJ. NO. 015292.00

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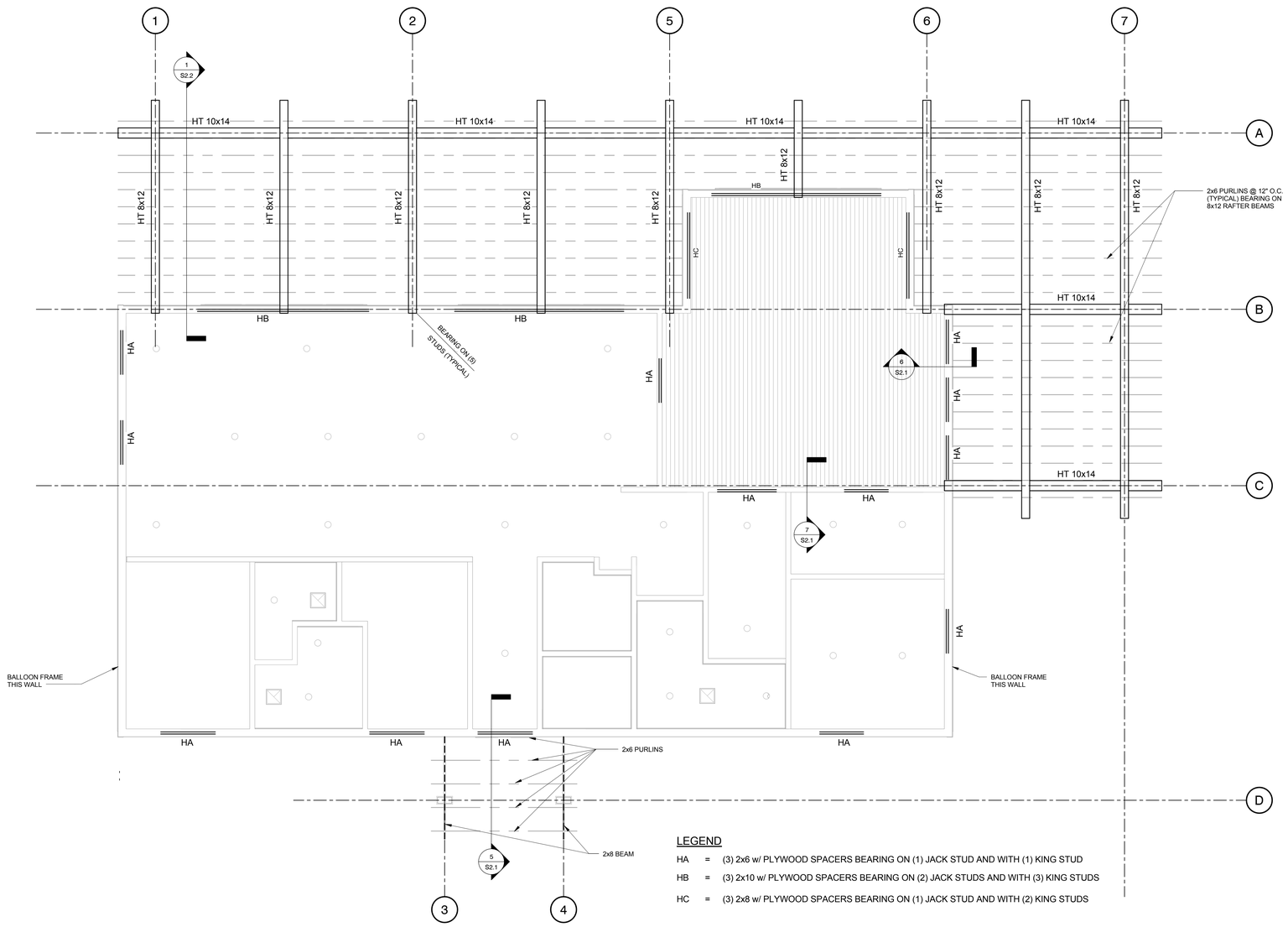

LEGEND

HA = (3) 2x6 w/ PLYWOOD SPACERS BEARING ON (1) JACK STUD AND WITH (1) KING STUD

HB = (3) 2x10 w/ PLYWOOD SPACERS BEARING ON (2) JACK STUDS AND WITH (3) KING STUDS

HC = (3) 2x8 w/ PLYWOOD SPACERS BEARING ON (1) JACK STUD AND WITH (2) KING STUDS

1 / S1.2 ROOF FRAMING PLAN (PORCHES AND HEADERS)

1/4" = 1'-0"

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 20477 11-25-15 AJA ARROWOOD & ARROWOOD, PC. No. C03036 CERTIFICATE OF AUTHORIZATION

GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, S.C.

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

PRINCIPAL IN CHARGE: AJA
PROJECT ARCHITECT: AJA
DRAWN BY: AP/WB

SHEET TITLE:

PORCH AND HEADER FRAMING PLAN

SHEET NO. S1.2

PROJ. NO. 015292.00

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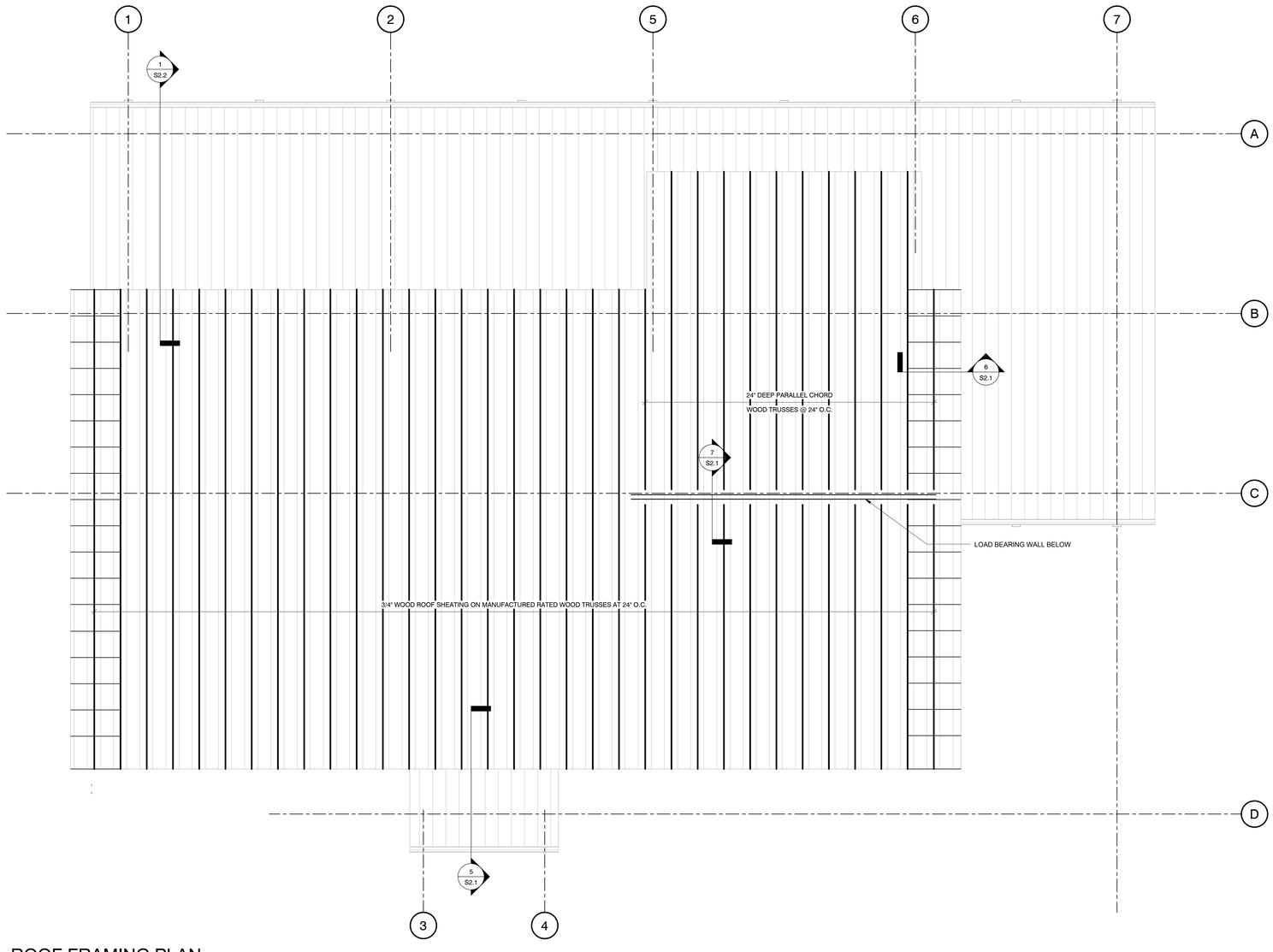

1 S1.3 ROOF FRAMING PLAN

1/4" = 1'-0"

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 20477
11-25-15
ANTHONY JOHN ARROWOOD

SOUTH CAROLINA
ARROWOOD & ARROWOOD, PC
No. C03036
CERTIFICATE OF AUTHORIZATION

GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, S.C.

SHEET ISSUE:

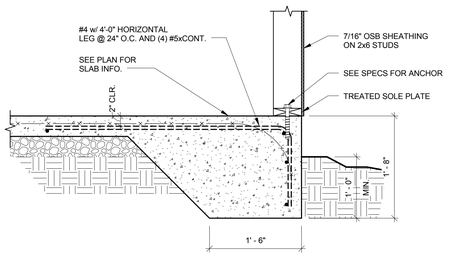
NO.	DATE	DESCRIPTION	BY

PRINCIPAL IN CHARGE: AJA
PROJECT ARCHITECT: AJA
DRAWN BY: AP/WB

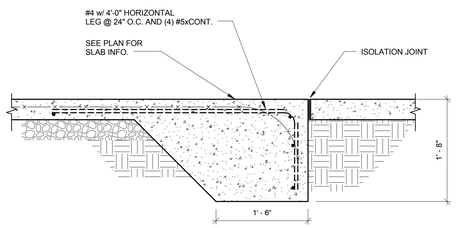
SHEET TITLE:
ROOF FRAMING PLAN

SHEET NO. S1.3

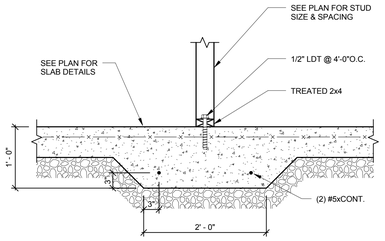
PROJ. NO. 015292.00



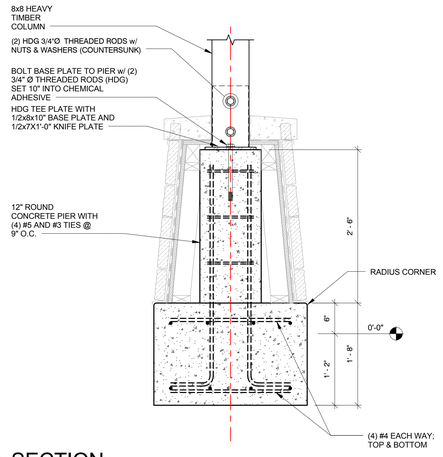
1 S2.1 THICKENED EDGE SLAB
1" = 1'-0"



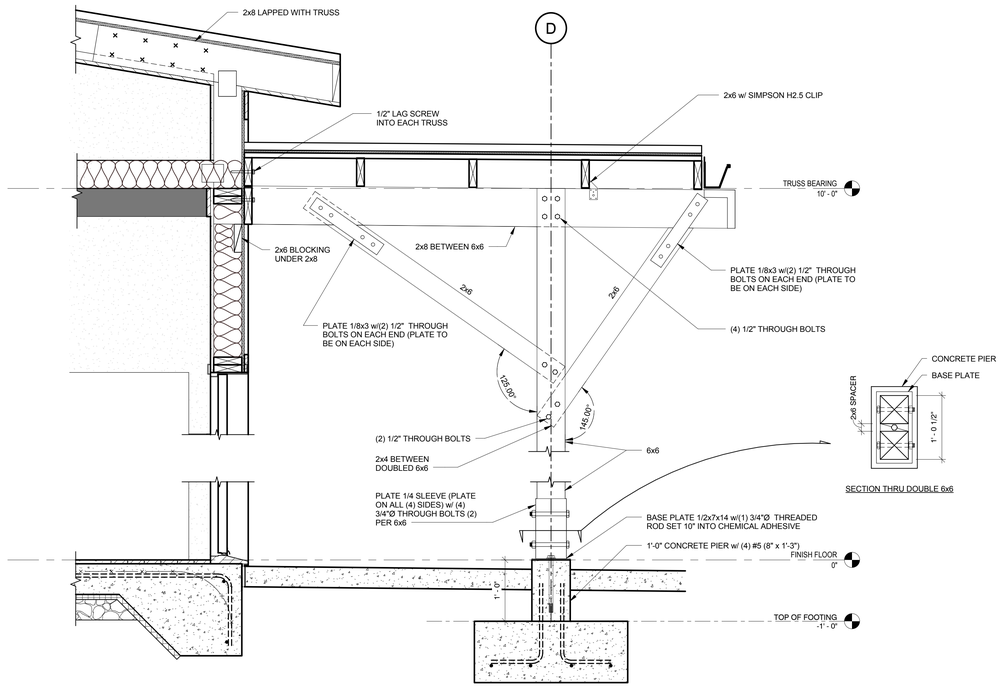
2 S2.1 THICKENED EDGE SLAB AT COVERED PORCH
1" = 1'-0"



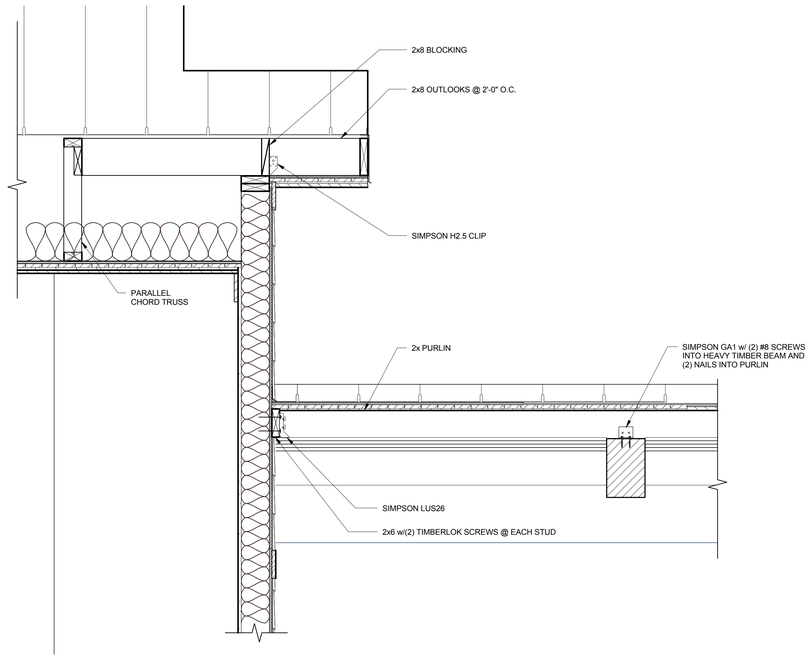
3 S2.1 THICKENED SLAB SECTION
1" = 1'-0"



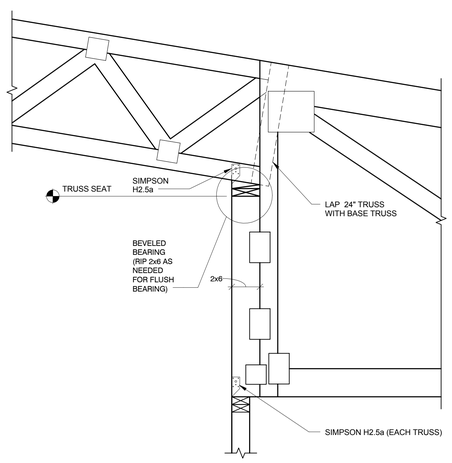
4 S2.1 SECTION
1" = 1'-0"



5 S2.1 SECTON AT CANOPY
1" = 1'-0"



6 S2.1 END WALL SECTION
1" = 1'-0"



7 S2.1 SECTION AT TRUSS SEAT
1" = 1'-0"

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SOUTH CAROLINA ARROWOOD & ARROWOOD, PC No. C03036 CERTIFICATE OF AUTHORIZATION

GREENVILLE COUNTY

DR. CARY E. STROUD CAMPER CARE CENTER

MARIETTA, S.C.

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

PRINCIPAL IN CHARGE: AJA
PROJECT ARCHITECT: AJA
DRAWN BY: AP/WB

SHEET TITLE:
SECTIONS & DETAILS

SHEET NO. S2.1

PROJ. NO. 015292.00

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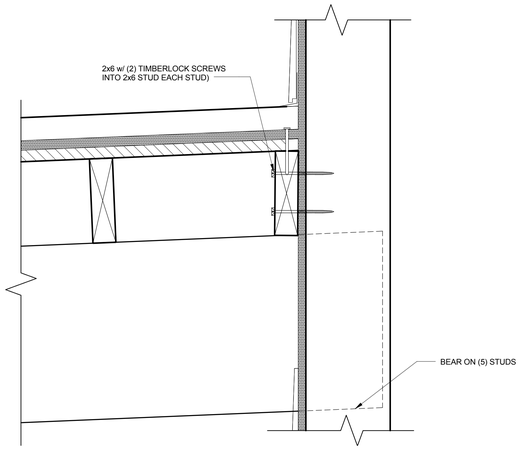
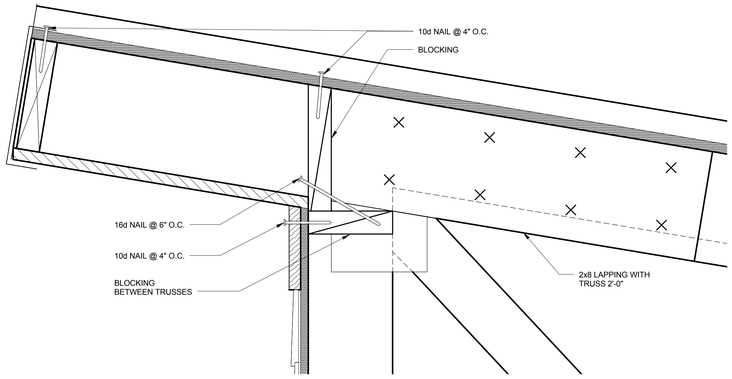
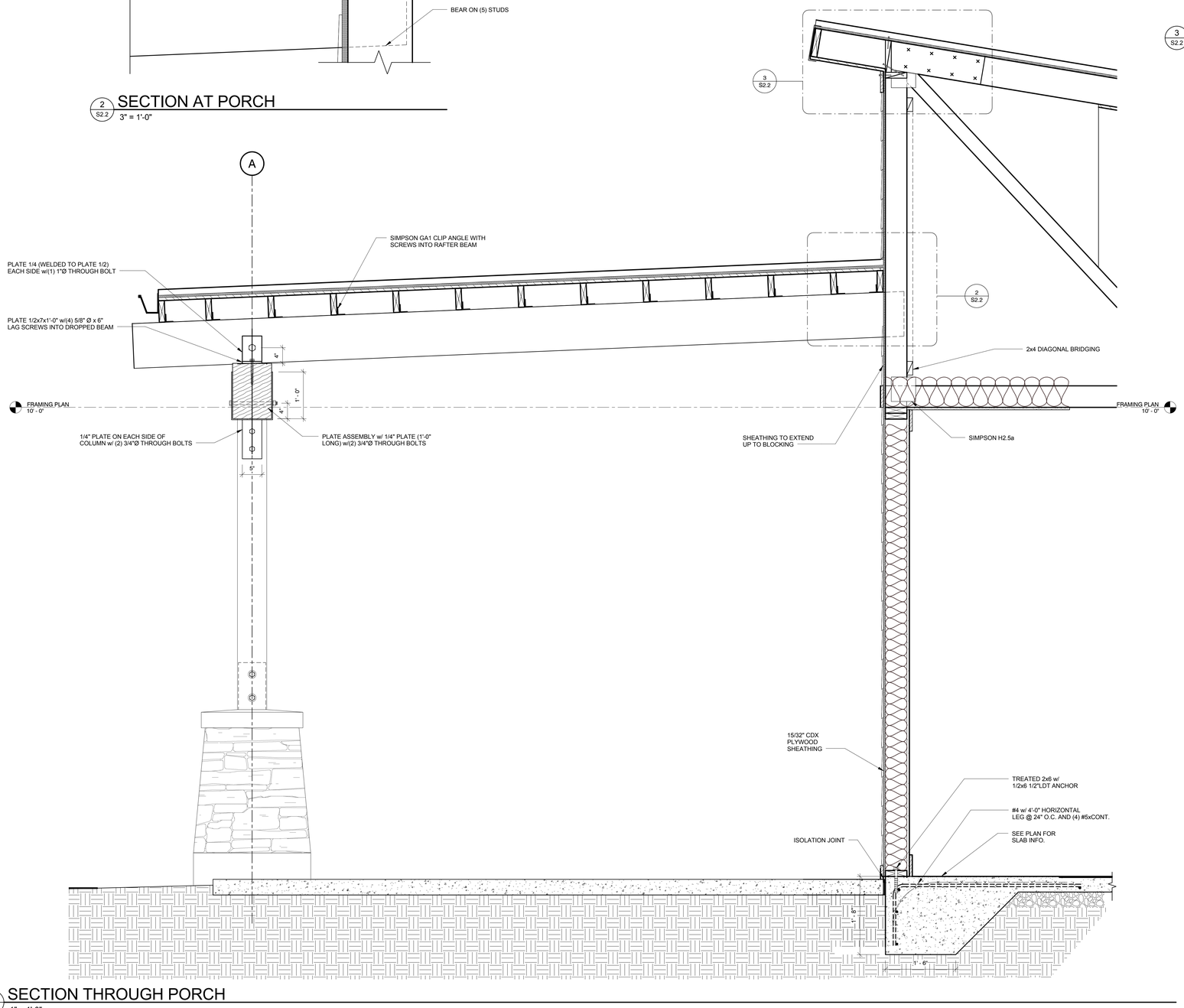


2 S2.2 SECTION AT PORCH
3" = 1'-0"



3 S2.2 SECTION AT ROOF
3" = 1'-0"



1 S2.2 SECTION THROUGH PORCH
1" = 1'-0"

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MARIETTA, S.C.

SHEET ISSUE:

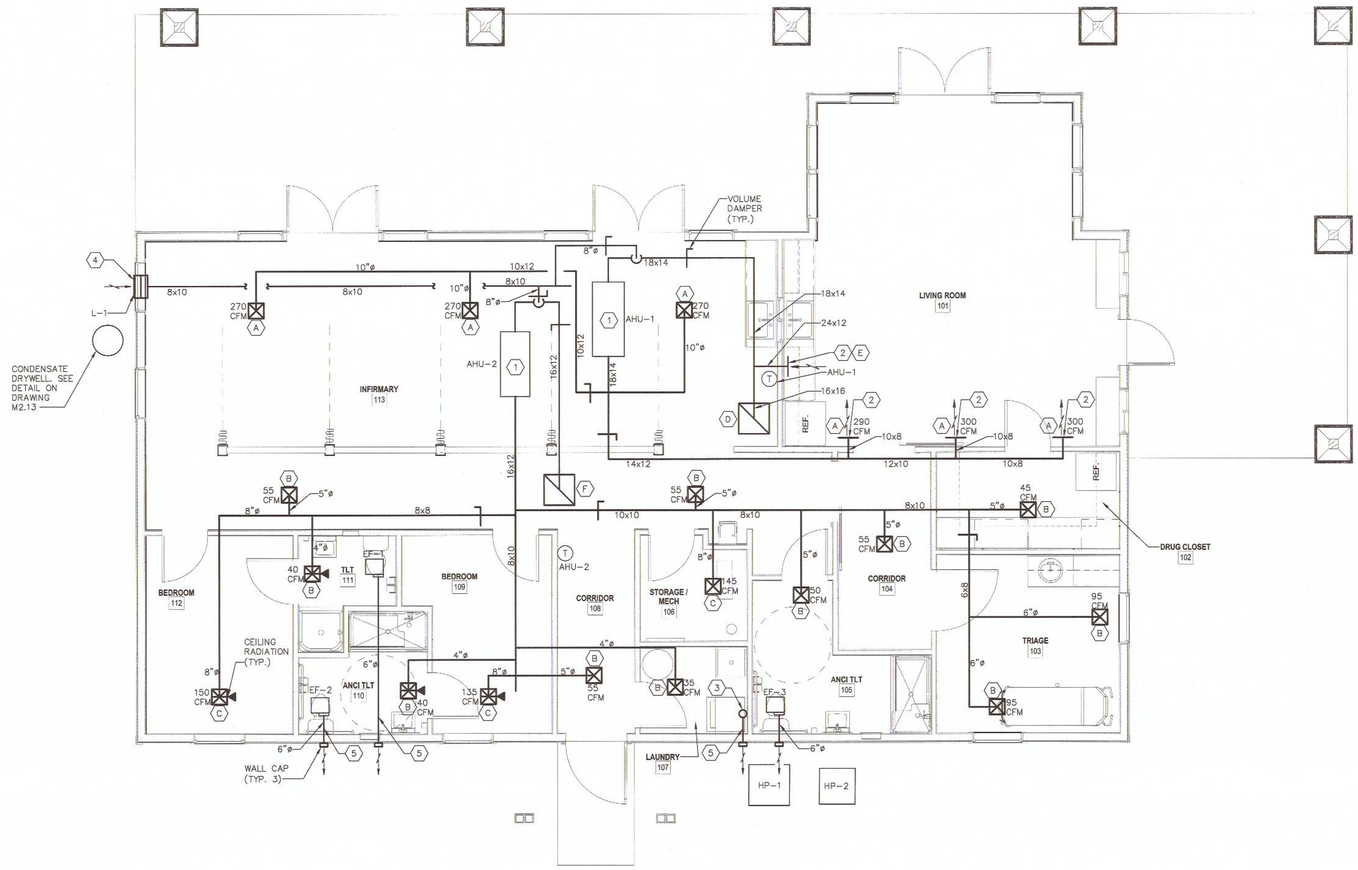
NO.	DATE	DESCRIPTION	BY

PRINCIPAL IN CHARGE: AJA
PROJECT ARCHITECT: AJA
DRAWN BY: AP

SHEET TITLE:
SECTIONS & DETAILS

SHEET NO. S2.2

PROJ. NO. 015292.00



1 HVAC PLAN
M2.11 SCALE: 1/4"=1'-0"

KEY NOTES (THIS SHEET ONLY)

1. AIR HANDLING UNIT (AHU) LOCATED IN ATTIC.
2. SUPPLY/RETURN GRILLE LOCATED ON LIVING ROOM SIDEWALL. LOCATE AS LOW AS POSSIBLE.
3. DRYER VENT THRU SIDEWALL. ROUTE PER CODE REQUIREMENTS.
4. OUTSIDE AIR INTAKE LOUVER CENTERED ABOVE WINDOW.
5. DUCTWORK TO BE NOT LESS THAN 26 GAUGE GALVANIZED STEEL SHEET.

CONDENSATE DRAINAGE NOTE:
ROUTE CONDENSATE DRAINAGE FROM AHU-1 AND AHU-2 TO CONDENSATE DRYWELL PER CODE REQUIREMENTS. SEE PLAN FOR LOCATION OF DRYWELL.

OUTSIDE AIR INTAKE NOTE:
LOCATE ALL OUTSIDE AIR INTAKES AT LEAST 10 FT. AWAY FROM EXHAUST AIR DISCHARGE.

GENERAL NOTE:
SEAL ALL PENETRATIONS THRU FIRE RATED WALLS AND CEILINGS PER CODE REQUIREMENTS.

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LEBLANC WELCH CONSULTING ENGINEERS NO.C00908
CERTIFICATE OF AUTHORIZATION
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL NO. 14869
11/24/15

CAMP COURAGE
DR. CARY E. STROUD CAMPER CARE CENTER
GREENVILLE, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
A	2015.10.23	DESIGN DEVELOPMENT	DCB
B	2015.11.25	ISSUE FOR PERMIT	DCB

ISSUE FOR PERMIT 2015.11.25

PRINCIPAL IN CHARGE: JCL
PROJECT ENGINEER: DCB
DRAWN BY: DB

SHEET TITLE:
FIRST LEVEL
HVAC PLAN

SHEET NO. M2.11
PROJ. NO. 015292.00

10/21/2015 11:05:00 AM
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SPLIT SYSTEM HEAT PUMP SCHEDULE

UNIT NO.	SUPPLY AIR CFM	OUTSIDE AIR CFM	E.S.P. IN W.G.	INDOOR FAN H.P.	INDOOR UNIT ELECTRICAL	INDOOR UNIT MCA	INDOOR UNIT MOCP	SYSTEM COOLING					SYSTEM HEATING					AHU MODEL		OUTDOOR UNIT MODEL		OUTDOOR UNIT ELECTRICAL	OUTDOOR UNIT MCA	OUTDOOR UNIT MOCP	NOMINAL TONS	SEER	EER	REMARKS
								E.D.B. °F	E.W.B. °F	COND. °F	SENSIBLE MBH	TOTAL MBH	E.D.B. °F	OUTDOOR AMBIENT	MBH	HEATER KW	STAGES	LENNOX	NO. CIRCUITS	LENNOX	QUANTITY							
AHU-1/HP-1	1700	170	0.6	1	208/1/60	46	50	80	67	95	–	49.5	65.9	11	27.0	8.0	1	CBX27UH-048	1	14HPX048	1	208/1/60	29.0	50	4.0	15	–	1,2,3
AHU-2/HP-2	1050	110	0.8	0.5	208/1/60	32	35	80	67	95	–	30.0	65.5	11	14.8	6.0	1	CBX27UH-030	1	14HPX030	1	208/1/60	17.1	25	2.5	15	–	1,2,3

REMARKS:
1. PROVIDE SINGLE POINT CONNECTION.
2. FACTORY PROGRAMMABLE THERMOSTAT WITH CLEAR LOCKING COVER.
3. FACTORY INSTALLED THERMOSTATIC EXPANSION VALVE.

NOTE:
SIZE REFRIGERENT PIPING PER MANUFACTUER'S RECOMMENDATIONS. SIZES SHALL BE BASED ON INSTALLED PIPING DISTANCES FROM CONDENSING UNIT TO AIR HANDLING UNIT. PROVIDE ALL NECESSARY ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS.

NOTE:
ROOFTOP A/C UNIT SCHEDULE IS BASED ON UNITS AS MANUFCTURED BY LENNOX. ACCEPTABLE ALTERNATE MANUFACTURERS ARE YORK, RUUD TRANE, AND CARRIER OR AS APPROVED BY OWNER.

FOR ACCEPTABLE ALTERNATE MANUFACTURERS, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

OPERATING NOTES:
1. SUPPLY AIR FANS SHALL RUN CONTINUOUSLY DURING NORMALLY OCCUPIED HOURS.

GRILLE AND DIFFUSER SCHEDULE

SYMBOL	DUTY	CFM	MFR.	MODEL NO.	DIFFUSER NECK SIZE	GRILLE FACE SIZE	DISCHARGE PATTERN	SLOT LENGTH (FT.)	REMARKS
A	SUPPLY	SEE PLAN	PRICE	520D	10X8	–	–	–	1,2
B	SUPPLY	SEE PLAN	PRICE	520D	6x6	–	–	–	1,2
C	SUPPLY	SEE PLAN	PRICE	520D	8X6	–	–	–	1,2
D	RETURN	SEE PLAN	PRICE	530	16X16	–	–	–	2
E	RETURN	SEE PLAN	PRICE	530	24X12	–	–	–	2
F	RETURN	SEE PLAN	PRICE	530	24X14	–	–	–	2

NOTES:
1. PROVIDE WITH OPPOSED BLADE DAMPER.
2. COORDINATE COLOR WITH ARCHITECT.

LOUVER SCHEDULE

MARK	SERVES	MANUFACTURER	MODEL NO.	AIRFLOW CFM	PRESS. DROP IN. W.C.	LOUVER SIZE WXH	FREE AREA SQ. FT.	COMMENTS
L-1	AHU-1/AHU-2	RUSKIN	ELF6375DX	280	0.1	18"x12"	0.49	1

COMMENTS:
1. BIRDSCREEN, BACKDRAFT DAMPER.

EXHAUST FAN SCHEDULE

MARK	LOCATION	SERVICE	MANUFACTURER	MODEL NO.	CAPACITY CFM	CAPACITY ESP	HP (WATTS)	ELECTRICAL	REMARKS	OPERATING NOTES	COMMENTS
EF-1	CEILING	EXHAUST	GREENHECK	SP-B150	120	0.25	(129)	120/1/60	1	1	–
EF-2	CEILING	EXHAUST	GREENHECK	SP-B150	120	0.25	(129)	120/1/60	1	1	–
EF-3	CEILING	EXHAUST	GREENHECK	SP-B150	120	0.25	(129)	120/1/60	1	1	–

REMARKS:
1. PROVIDE WALL CAP, BACKDRADFT DAMPER, SPEED CONTROLLER AND DISCONNECT SWITCH.

OPERATING NOTES:
1. INTERLOCK WITH LIGHTS.

VENTILATION CALCULATION

AREA	SQ. FT.	NET OCCUPIABLE AREA (SQ. FT.)	OCCUPANTS	CFM PER SQ.FT.	CFM PER OCC.	REQ'D O.A. (CFM) (OCCUPANCY)	REQ'D O.A. (CFM) (AREA)	REQ'D O.A. TOTAL -VBZ (CFM) (OCCUPANCY + AREA)	ACTUAL DESIGN O.A. (CFM)	UNITS SERVED BY
INFIRMARY 113	565	339	5	–	25	125	–	125	–	AHU-1
LIVING ROOM 101	447	268	5	0.06	5	25	16	41	–	AHU-1
								TOTAL AHU-1 - 166	TOTAL AHU-1 - 170	
BEDROOMS, CORRIDOR, LAUNDRY	670	408	5	0.06	5	25	24	49	–	AHU-2
STORAGE/DRUG CLOSET	126	80	–	0.12	–	–	10	10	–	AHU-2
TRIAGE 103	140	90	2	–	25	50	–	50	–	AHU-2
								TOTAL AHU-2 - 109	TOTAL AHU-2 - 110	

MECHANICAL CODE ANALYSIS:

PROVIDE TWO SPLIT SYSTEM HEAT PUMPS. PROVIDE THREE CEILING MOUNTED EXHAUST FANS.

PERMIT DATA:

HEATING:	
POWER BOILER, INCINERATORS &/OR FURNACES:	NEW
# OF UNITS UP TO 200,000 BTU/HR	0
# OF UNITS 200,000 BTU/HR AND UP	0
HEAT PUMP OR PACKAGED UNITS UP TO 5 TON:	2
ADDITIONAL TONS FOR ALL SYSTEMS OVER 5 TONS:	0
# OF GAS WATER HEATERS	0
# OF UNIT, SPACE, WALL, DUCT HEATERS, OR VAV UNITS	0
# OF GAS LOGS, THRU WALL UNITS, PREFAB FIREPLACE	0
REFRIGERATION – # WALK IN COOLER, FREEZERS	0
AIR CONDITIONER OR CHILLER:	
UNITS UP TO 5 TONS	0
ADDITIONAL TONS FOR ALL SYSTEMS OVER 5 TONS	0
# OF RANGE HOOD, EXHAUST SYSTEMS, DRYERS	3

PIPING:
INSTALLATION OF GAS PIPING: NO

REQUIRED OUTDOOR MECHANICAL VENTILATION AIR PER 2012 IMC: 275 CFM
TOTAL CFM OF OUTDOOR VENTILATION AIR PROVIDED: 280 CFM

MECHANICAL SPECIFICATIONS:

GENERAL: CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND MANAGEMENT NECESSARY OR REASONABLY INCIDENTAL TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS.

CODES AND ORDINANCES: ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT ACCORDANCE WITH REQUIREMENTS OF THE STANDARD MECHANICAL CODE OF IMC, NFPA, STATE AND LOCAL LAWS AND CODES, AND ALL LAWS, RULES AND REGULATIONS OF PUBLIC BODIES HAVING JURISDICTION.

INTERFERENCES: CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE AREA WHERE THE WORK IS TO BE PERFORMED. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCOMMODATING ALL INTERFERENCES WITH THE WORK, OFFSETTING, MODIFYING, AND OTHERWISE FITTING THE EQUIPMENT TO THE SPACE AVAILABLE, AND COORDINATING WITH OTHER DRAWINGS FOR CONSTRUCTION DETAILS, DIMENSIONS, INTERFERENCES, ETC.

GUARANTEE: ALL MATERIALS AND WORKMANSHIP PROVIDED SHALL BE WARRANTED AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

CLEAN-UP: ALL DEBRIS, RUBBISH, SCRAPS, ETC. SHALL BE CLEANED UP AT THE END OF EACH WORK DAY. AT THE COMPLETION OF THE WORK, ALL NEW CONSTRUCTION WORK AND MATERIALS SHALL BE CLEANED UP OF MARKINGS, DIRT, ETC. AND LEFT IN A CLEAN AND SIGHTLY CONDITION, READY FOR USE BY THE OWNER.

REFRIGERANT PIPING: REFRIGERANT PIPING SHALL BE HARD-DRAWN TYPE K SEAMLESS COPPER TUBING, ASTM B88-74. FITTINGS SHALL BE WROUGHT, ANSI B16-22-63, COPPER WITH A WORKING PRESSURE OF NOT LESS THAN 300 PSIG. REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION FORM EQUIPMENT MANUFACTURER AS TO THE CORRECTNESS OF THE LINE SIZES. INSULATE ALL SUCTION LINES AND FITTINGS WITH PRE-FORMED ARMAFLEX AP INSULATION, 1" THICK. USE ARMAFLEX 520 ADHESIVE ON ALL JOINTS. ALL INSULATION MATERIALS SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED PER ASTM E 84 & THERMAL CONDUCTIVITY OF NO GREATER THAN 0.27 (BTU*IN)/(HR*FT^2*°F) PER ASTM C. PROVIDE PIPE SLEEVES FOR REFRIGERANT AND CONDENSATE LINES PENETRATIMG EXTERIOR WALLS. SEAL VOIDS WATER-TIGHT AROUND PIPING WITH A WEATHER TIGHT PERMANENT NON-SHRINKING SEALANT. REFRIGERANT LINE SETS TO BE RUN CONTINUOUSLY BETWEEN FLOORS AND EXIT OUT OF BUILDING THROUGH EXTERIOR WALL.

CONDENSATE DRAIN PIPING: ENSURE PROPER CONDENSATE REMOVAL FROM ALL AIR HANDLING UNIT DRAINS. CONDENSATE DRAIN PIPING AND FITTING REQUIRED SHALL BE TYPE PVC. INSTALL WITHOUT ANY SAGGING TO ENSURE COMPLETE DRAINAGE. PROVIDE A P-TRAP ON CONDENSATE DRAINS AT EACH UNIT. THE CONDENSATE DRAIN SHALL BE THE SAME SIZE AS THE UNIT DRAIN CONNECTION BUT SHALL NOT BE LESS THAN ¾" DIAMETER PIPE. SLOPE CONDENSATE DRAIN PIPING MIN. ⅛" PER FOOT TOWARD DRAIN. PROVIDE MIN 1½" SECONDARY DRAIN PANS UNDER EACH AIR HANDLING UNIT. PROVIDE A FLOAT SWITCH THAT WILL SHUT-DOWN UNIT IF CONDENSATE REACHES MAXIMMUM LEVEL OF PAN.

DUCTWORK: DUCTWORK SHALL BE CONSTRUCTED OF LOCK-FORMING GALVANIZED STEEL SHEET. DUCTWORK SHALL BE CONSTRUCTED AND REINFORCED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE "HVAC DUCT CONSTRUCTION STANDARD – METAL AND FLEXIBLE" AS PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA). DUCTWORK SHALL BE CONSTRUCTED AND REINFORCED ACCORDING TO THE TABLE FOR 1" W.G. DUCT DESIGN PRESSURE. DUCT SHALL BE SUPPORTED BY STRAP HANGERS PROPERLY SECURED TO THE BUILDING STRUCTURE. ALL ELBOWS SHALL BE PROVIDED WITH APPROVED TURNING VANES.

PROVIDE MANUAL BALANCING DAMPERS FOR ALL DUCT RUN-OUTS WITH MORE THAN ONE DIFFUSER IMMEDIATELY AFTER DUCT TAKE-OFF.

MITER ELBOWS SHALL HAVE DOUBLE THICKNESS METAL TURNING VANES. FURNISH AND INSTALL SPLITTER DAMPERS, AND VOLUME DAMPERS AS REQUIRED FOR CONTROL OF AIR DISTRIBUTION AND FOR BALANCING.

DUCT INSULATION: CONCEALED SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED WITH 2" FOIL INSULATION MEETING UL-181 AND NFPA 90A SPECIFICATIONS. ALL INSULATION SHALL BE VAPOR SEALED PER MANUFACTURER'S RECOMMENDATIONS.

FLEXIBLE DUCTWORK: **MAXIMUM 6 FT.** FLEX DUCT SHALL BE ALLOWED TO CONNECT TO DIFFUSERS WHERE CONCEALED ABOVE CEILINGS. FLEXIBLE ROUND DUCT SHALL BE EQUAL TO FLEXMASTER TYPE 5, THERMAL CONDUCTANCE .23, WITH TRILAMINATE LINER BONDED TO GALVANIZED HELIX AND FIRE RETARDANT POLYETHYLENE OUTER LINER.

DUCT ROUTING: WHERE CLEARANCE ABOVE CEILING OR INTERFERENCES PREVENT DIFFUSER CONNECTIONS EXACTLY AS SHOWN ON DRAWINGS, RELOCATE DUCTS OR DIFFUSERS NOT MORE THAN 2 FEET TO FACILITATE INSTALLATION. SHOW CHANGES ON SHOP DRAWING SUBMITTALS FOR APPROVAL.

HVAC SYSTEM CONTROL WIRING SHALL BE PROVIDED BY THE HVAC CONTRACTOR AND SHALL MEET IMC AND NEC REQUIREMENTS. HVAC CONTROL SYSTEMS SHALL PROVIDE A COMPLETE AND OPERABLE SYSTEM OF TEMPERATURE CONTROL.

CONTRACTOR SHALL ARRANGE ROOFTOP A/C UNITS TO PROVIDE EFFICIENT CONNECTION OF S.A. AND R.A. DUCTS. ANY CHANGE IN SIZE, WEIGHT, LOCATION, OR ARRANGEMENT OF HVAC EQUIPMENT SHALL BE EVALUATED BY THE HVAC CONTRACTOR FOR BUILDING LOADING, STRUCTURAL INTEGRITY OF THE SUPPORT SYSTEM, DUCT CONNECTIONS, AND GAS AND ELECTRICAL SERVICES, AND HE SHALL SUBMIT REVISED DRAWINGS AND DETAILS TO ACCOMMODATE THE CHANGES.

TESTING AND BALANCING: TESTING AND BALANCING SHALL BE PERFORMED BY AN EXPERIENCED TESTING AND BALANCING FIRM. ALL TESTING AND BALANCING SHALL BE IN ACCORDANCE WITH SMACNA "HVAC TESTING, ADJUSTING AND BALANCING MANUAL; 1993 EDITION." TESTS SHALL BE MADE TO DETERMINE THAT THE COMPLETE AIR CONDITIONING SYSTEM IS OF SPECIFIED CAPACITY AND THAT ALL CONTROLS WILL OPERATE IN SEQUENCE. TEST RESULTS SHALL BE SIGNED AND CERTIFIED BY THE TESTING FIRM AND SUBMITTED TO THE OWNER. THE TESTING AND BALANCING CONTRACTOR (ALONG WITH THE CONTROLS CONTRACTOR) SHALL COME BACK DURING THE SUMMER AND MAKE SURE EVERYTHING IS FINCTIONING PROPERLY.

10/29/2015 11:05:00 AM
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SOUTH CAROLINA LEBLANC WELCH CONSULTING ENGINEERS NO.C00908 CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER NO. 14880 DAVID COLLIS BONDS
11/24/15

CAMP COURAGE
DR. CARY E. STROUD CAMPER CARE CENTER
GREENVILLE, SC

SHEET ISSUE:

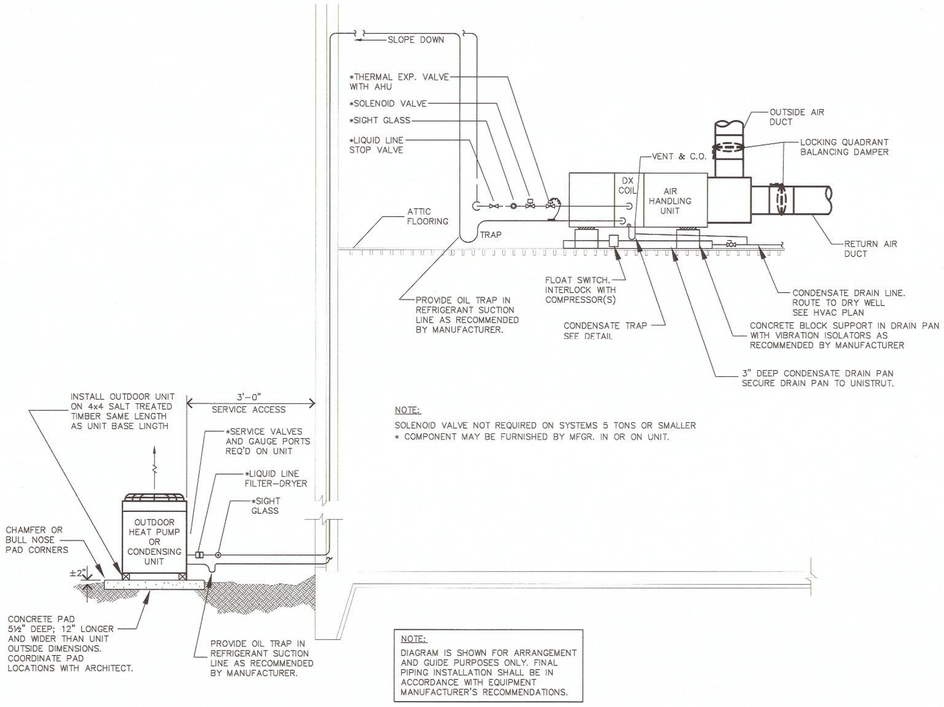
NO.	DATE	DESCRIPTION	BY
A	2015.10.23	DESIGN DEVELOPMENT	DCB
B	2015.11.25	ISSUE FOR PERMIT	DCB

ISSUE FOR PERMIT 2015.11.25

PRINCIPAL IN CHARGE: JCL
PROJECT ENGINEER: DCB
DRAWN BY: DB

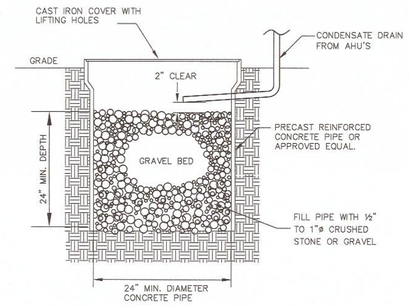
SHEET TITLE:
HVAC SCHEDULES & SPECIFICATIONS

SHEET NO. M2.12
PROJ. NO. 015292.00



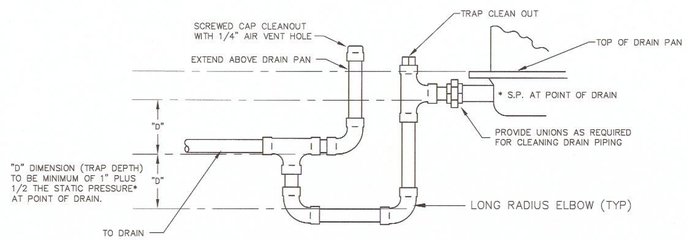
TYPICAL SPLIT SYSTEM REFRIGERANT PIPING DIAGRAM

SCALE : NONE



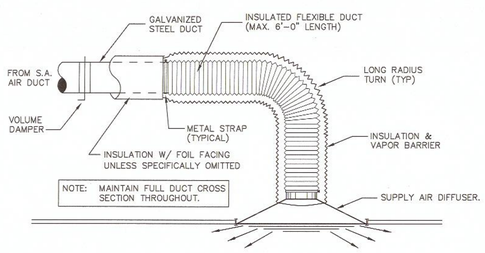
CONDENSATE DRYWELL DETAIL

SCALE: NONE



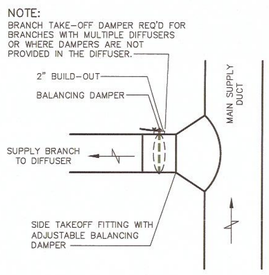
CONDENSATE DRAIN TRAP FOR DRAW-THRU COILS

SCALE: NONE



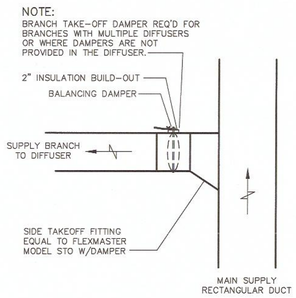
FLEXIBLE DUCT TO DIFFUSER DETAIL

SCALE: NONE



ROUND TO ROUND DIFFUSER BRANCH TAKEOFF DETAIL

SCALE: NONE



SQUARE TO ROUND DIFFUSER BRANCH TAKEOFF DETAIL

SCALE: NONE

HVAC LEGEND

- CEILING MTD SUPPLY DIFFUSER
- CEILING MTD RETURN OR EXHAUST DIFFUSER
- SIDEWALL MOUNTED SUPPLY GRILLE
- SIDEWALL MOUNTED RETURN GRILLE
- (T) THERMOSTAT
- FIRE DAMPER
- VOLUME DAMPER
- SUPPLY, RETURN, EXHAUST, OR OUTSIDE AIR DUCT
- —— C —— CONDENSATE DRAIN LINE
- AHU AIR HANDLING UNIT
- HP HEAT PUMP
- EF EXHAUST FAN
- OAH OUTSIDE AIR INTAKE HOOD
- L LOUVER

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David C. Bond

11/24/15

CAMP COURAGE

DR. CARY E. STROUD CAMPER CARE CENTER

GREENVILLE, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
A	2015.10.23	DESIGN DEVELOPMENT	DCB
B	2015.11.25	ISSUE FOR PERMIT	DCB

ISSUE FOR PERMIT 2015.11.25

PRINCIPAL IN CHARGE: JCL
PROJECT ENGINEER: DCB
DRAWN BY: DB

SHEET TITLE:
HVAC DETAILS

SHEET NO. M2.13

PROJ. NO. 015292.00

10/29/2015 11:49:09 AM
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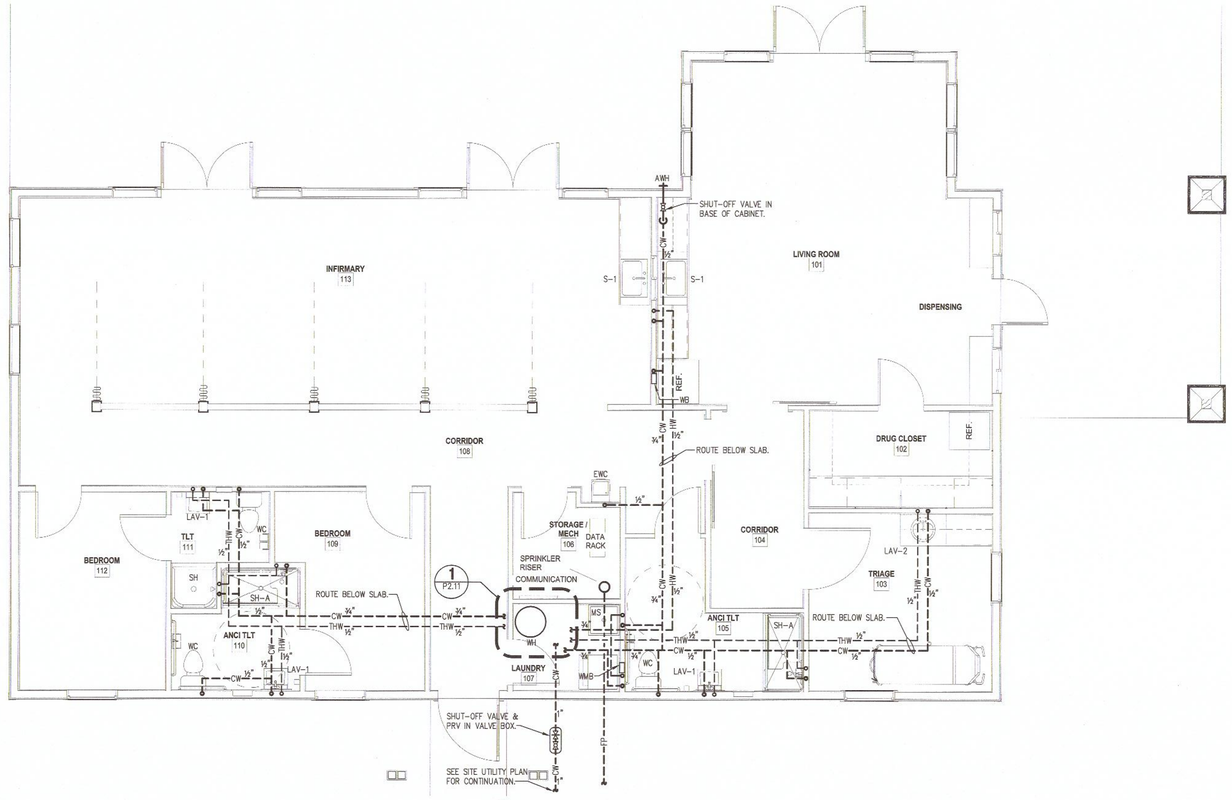
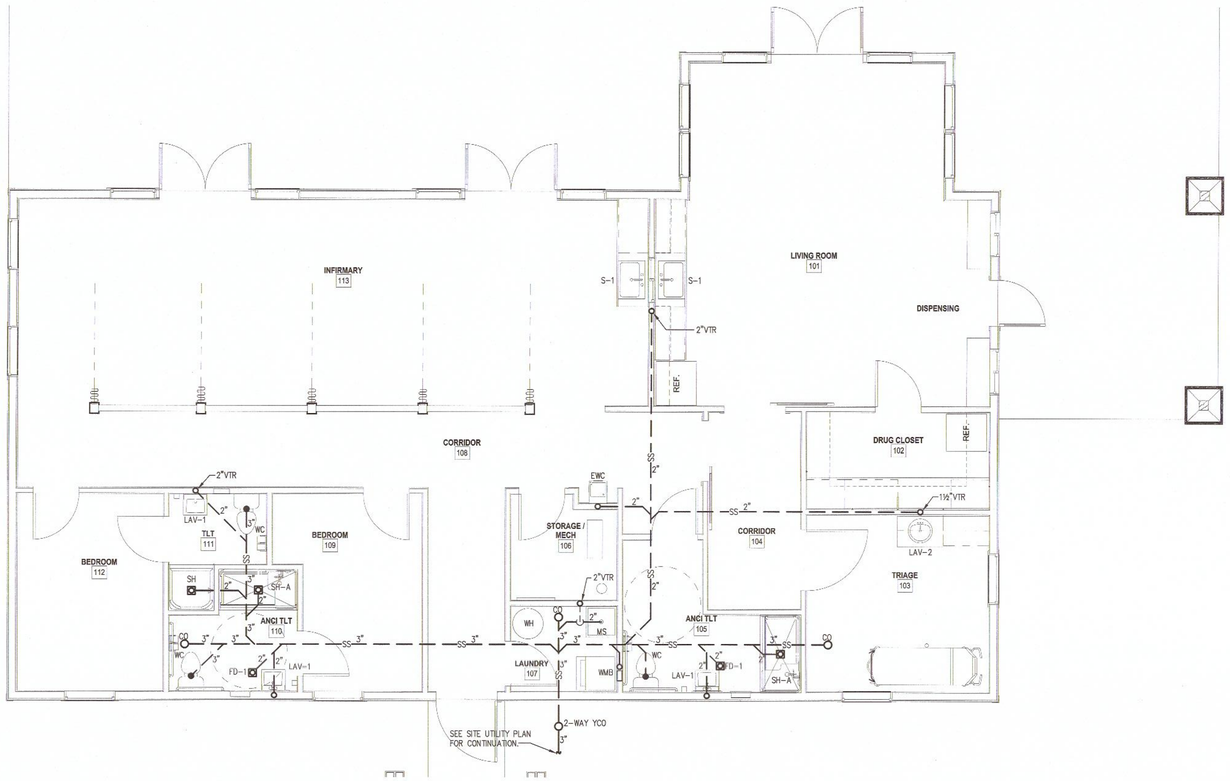


1 PLUMBING SUPPLY PLAN
P2.11 SCALE: 1/4"=1'-0"



2 PLUMBING WASTE PLAN
P2.11 SCALE: 1/4"=1'-0"

PLUMBING CODE ANALYSIS

SCOPE OF WORK:
PERMIT DATA:
OF FIXTURES: 15
(COUNT ALL THAT HAVE A SUPPLY AND A DRAIN)
SEPTIC: NEW EXISTING
SEWER: NEW EXISTING
OF LF OF DRAIN/WASTE: NA
(PERMITTING UNDERGROUND ONLY, OR REPAIRS)
OF LF STORM DRAIN LINES: NA
(INCLUDES LEADERS/DOWNSPOUTS)

PLUMBING FIXTURE DATA:
OF WATER CLOSETS: M: ___ F: ___ UNISEX: 3
OF URINALS: M: 0 F: 0 UNISEX: 0
OF LAVATORIES: M: ___ F: ___ UNISEX: 3
OF BATHTUB/SHOWERS: 3
OF DRINKING FOUNTAINS: 1
(MINIMUM OF ONE HIGH/LOW ACCESSIBLE UNIT)
OF SERVICE SINKS: 1
OF WATER HEATERS: 1
OF GREASE TRAP: 0
OF FLOOR DRAINS WITH PRIMERS: 0
OF WASHING MACHINES: 1
OF KITCHEN SINKS: 0
OF LAB SINKS: 0
OF MISCELLANEOUS: 2
TOTAL DRAINAGE FIXTURE UNITS IPC TABLE 709.1: 25
(SUM OF ALL FIXTURES)

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SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
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B	2015.11.25	ISSUE FOR PERMIT	DCB

ISSUE FOR PERMIT 2015.11.25

PRINCIPAL IN CHARGE: JCL
PROJECT ENGINEER: DCB
DRAWN BY: NSC

SHEET TITLE:
FIRST LEVEL PLUMBING PLAN

SHEET NO. P2.11
PROJ. NO. 015292.00

10/26/2015 11:05:05 AM
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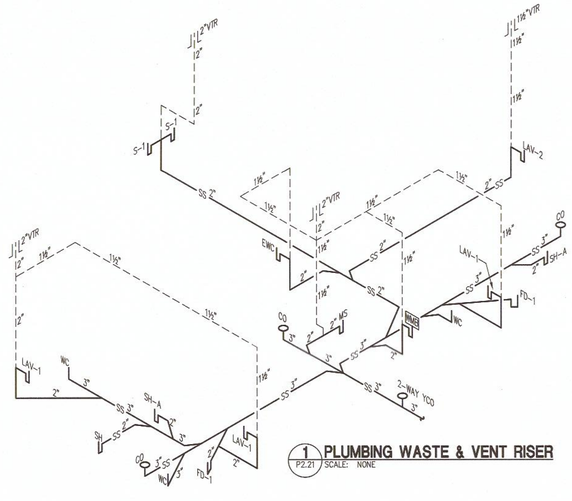
PLUMBING FIXTURE SCHEDULE

EQUIPMENT ID	MANUFACTURER	MODEL NO.	DESCRIPTION
AWH	JOSAM	71050	ANTI-FREEZE WALL HYDRANT: NON-FREEZE TYPE WITH 3/4" H.P.T. OUTLET, VACUUM/BACKFLOW PREVENTER AND PRESSURE RELIEF VALVE, LENGTH TO SUIT WALL THICKNESS MOUNTED 18" ABOVE GRADE.
CO	SIOUX CHIEF	FINISH LINE SERIES 834	FLOOR CLEANOUT: PROVIDE ACCESSORIES AS REQUIRED TO MATCH FLOOR FINISH.
EWC	ELKAY	EZSTL8C	ADA SPLIT-LEVEL WATER COOLER: FURNISH 1¼" P-TRAP & MCGUIRE STANDARD SERIES SUPPLY AND STOP WITH BRASS STEM.
FD-1	MIFAB	F1000	GENERAL FLOOR DRAIN: ADJUSTABLE ON-GRADE, ROUND PATTERN 6" STAINLESS STEEL STRAINER.
	SURE SEAL	SS SERIES	PREASSEMBLED INLINE FLOOR DRAIN TRAP SEALER. SIZE TO MATCH DRAIN OUTLET SIZE.
LAV-1 (ADA)	KOHLER	K-2005 "KINGSTON"	WALL-MOUNT LAVATORY: 21"x18", FAUCET HOLES ON 4" CENTERS, COLOR WHITE.
	T&S BRASS	B-2711-F05	LAVATORY FAUCET: SINGLE LEVER HANDLE, 0.5 GPM AERATOR.
	MCGUIRE		STANDARD SERIES LAVATORY SUPPLY KIT WITH BRASS STEMS.
	JOSAM		CONCEALED ARM LAVATORY SUPPORT SYSTEM.
	TRUEBRO	LAV GUARD 2	UNDER SINK PROTECTION: FOR ALL EXPOSED DRAIN PIPING, HOT/COLD STOPS AND SUPPLIES, INSULATION SHALL HAVE INTERNAL, E-Z TEAR-TO-FIT TRIM, E-Z GRIP FASTENERS.
LAV-2 (ADA)	KOHLER	K-2196-4 "PENNINGTON"	COUNTERTOP LAVATORY: SELF-RIMMING, FAUCET HOLES ON 4" CENTERS, COLOR WHITE.
	T&S BRASS	B-2711-F05	LAVATORY FAUCET: SINGLE LEVER HANDLE, 0.5 GPM AERATOR.
	MCGUIRE		STANDARD SERIES LAVATORY SUPPLY KIT WITH BRASS STEMS.
	TRUEBRO	LAV GUARD 2	UNDER SINK PROTECTION: FOR ALL EXPOSED DRAIN PIPING, HOT/COLD STOPS AND SUPPLIES, INSULATION SHALL HAVE INTERNAL, E-Z TEAR-TO-FIT TRIM, E-Z GRIP FASTENERS.
MS	FLORESTONE	MSR-2424	MOP BASIN: INCLUDE MR-370 HOSE & CLAMP; MR-372 MOP HANGER; MR-373 STAINLESS STEEL RIM GUARD; AND MR-377 WALLGUARD PANELS.
	T & S BRASS	B-0665-BSTP	MOP SINK FAUCET: WITH VACUUM BREAKER, BUILT-IN STOPS, LEVER HANDLES, HOSE OUTLET, AND BUCKET HOOK WITH BRACE.
PRV	WATTS	25AUB-Z3	PRESSURE REDUCING VALVE. PROVIDE SIZE PER MANUFACTURER'S SIZING GUIDE.
S-1	ELKAY	LR3122	SINGLE BOWL TOP MOUNT GRIP-RIM BAR SINK: 31x22 18-GAUGE 304 STAINLESS STEEL, TWO HOLE FAUCET PUNCHING, UNDERCOATING.
	T&S BRASS	B-0326	SINK FAUCET: DECK MOUNT, 4" CENTERS, RIGID GOOSENECK SPOUT, LEVER HANDLES.
	MCGUIRE		CRUMB CUP STRAINER: STAINLESS STEEL WITH REMOVABLE BASKET AND 1½"x4" TAILPIECE.
	MCGUIRE		STANDARD SERIES STOPS WITH BRASS STEMS, 1½" P-TRAP.
SH	AQUATIC	1363CNT	36"x36"x78" GELCOAT SHOWER MODULE: WITH BRASS DRAIN, 6" SKIRT HEIGHT, FACTORY INSTALLED GRAB BARS, CURTAIN ROD, BUILT-IN SOAP SHELVES, SLIP RESISTANT BOTTOM.
SHV	SYMMONS	C-96-1-X	SHOWER PRESSURE-BALANCING MIXING VALVE: WITH INTEGRAL SERVICE STOPS, ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, 2.5 GPM SHOWER HEAD WITH BRASS BALL JOINT ADJUSTABLE SPRAY. PROVIDE REVERSE CORE OPTION AS NEEDED FOR BACK TO BACK INSTALLATIONS.
SH-A (ADA)	AQUATIC	1623BFSTD	60"x30"x75" GELCOAT ADA SHOWER MODULE: WITH BRASS DRAIN, BARRIER-FREE DESIGN, L-SHAPED FOLD-UP SEAT, POWDER-COATED WHITE GRAB BARS, CURTAIN ROD, SOAP DISH, SLIP RESISTANT BOTTOM. COORDINATE LEFT OR RIGHT FIXTURE WALL WITH ARCHITECTURAL PLANS.
SHV-A (ADA)	SYMMONS	C-96-500-B30-V-X	SHOWER PRESSURE-BALANCING MIXING VALVE: WITH LEVER HANDLE, INTEGRAL SERVICE STOPS, ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, LEVERTROL DIVERTER WITH INTEGRAL VOLUME CONTROL, CAST BRASS ADJUSTABLE SPRAY SHOWER HEAD WITH ARM AND FLANGE. WALL/HAND SHOWER WITH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE. 30" SLIDE BAR FOR HAND SHOWER MOUNTING. PROVIDE REVERSE CORE OPTION AS NEEDED FOR BACK TO BACK INSTALLATIONS.
TMV	LEONARD	270-LF	THERMOSTATIC MIXING VALVE: 10 PSI LOSS AT 5.5 GPM. 0.25 GPM MINIMUM FLOW. SET TEMPERED WATER AT 115°F. MOUNT ABOVE CEILING.
WB	SIOUX CHIEF	OX BOX SERIES 696-1010	WATER SUPPLY WALL BOX WITH MINI-RESTER WATER HAMMER ARRESTER.
WC (ADA)	KOHLER	K-3979 "HIGHLINE"	WATER CLOSET: 1.6 GPF, UNIVERSAL HEIGHT, FLOOR MOUNTED, ELONGATED BOWL, TANK & FITTINGS, WHITE VITREOUS CHINA.
	BEMIS	1955SSCT	OPEN FRONT SEAT WITH CHECK HINGE AND STAINLESS STEEL POSTS.
	MCGUIRE		STANDARD SERIES CLOSET SUPPLY KIT WITH BRASS STEM.
WCO	JOSAM	58600	WALL CLEANOUT WITH COVER PLATE, SCREW AND THREADED BRONZE PLATE.
WH	A.O. SMITH	DEN-80	ELECTRIC WATER HEATER: 80 GALLON TANK, 6500 WATT ELEMENT, 208V/1ø/60. FURNISH WITH WATTS VACUUM RELIEF VALVE ON COLD WATER RISER, SAFETY DRAIN PAN AND DRAIN LINE.
	AMTROL	"THERM-X-TROL" ST-12	EXPANSION TANK. 4.4 GALLONS TOTAL VOLUME.
WMB	SIOUX CHIEF	OX BOX SERIES 696-2313	WASHING MACHINE WALL BOX WITH MINI-RESTER WATER HAMMER ARRESTERS. PROVIDE COLD WATER, HOT WATER, AND WASTE CONNECTION TO BOX.
YCO	JOSAM	58900	YARD CLEANOUT.

NOTE: ALTERNATE EQUAL MANUFACTURERS ARE ACCEPTABLE.

PLUMBING ROUGH-IN SCHEDULE

EQUIPMENT ID	SERVICE	FIXTURE	CW	THW	HW	WASTE	VENT	COMMENTS
AWH	EXTERIOR	WALL HYDRANT	1/2"		–	–	–	
CO		FLOOR CLEANOUT				VARIES		INSTALL FLUSH WITH FINISHED FLOOR.
EWC	GENERAL	WATER COOLER	1/2"			1 1/4"	1 1/4"	
LAV-1	RESTROOM	ADA LAVATORY	1/2"	1/2"		1 1/4"	1 1/4"	
LAV-2	RESTROOM	ADA LAVATORY	1/2"	1/2"		1 1/4"	1 1/4"	
MS	JANITOR	JANITOR SINK	1/2"		1/2"	2"	1 1/2"	
S-1	GENERAL	PANTRY SINK	1/2"		1/2"	1 1/2"	1 1/2"	
SH	TLT 111	SHOWER	1/2"	1/2"		2"	1 1/4"	
SH-A	TLT 105, 110	ADA SHOWER	1/2"	1/2"		2"	1 1/4"	
WB	GENERAL	WATER SUPPLY BOX	1/2"					
WC	RESTROOMS	ADA WATER CLOSET	1/2"			3"	1 1/2"	
WH	MECH	WATER HEATER	3/4"		3/4"	–	–	
WMB	LAUNDRY	WALL BOX	1/2"		1/2"	2"	1 1/2"	



1 P2.21 PLUMBING WASTE & VENT RISER
SCALE: NONE

PLUMBING SPECIFICATIONS:

GENERAL:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND MANAGEMENT NECESSARY OR REASONABLY INCIDENTAL TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS.

CODES AND ORDINANCES:

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT ACCORDANCE WITH REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER, NFPA CODES, STATE AND LOCAL LAWS AND CODES, AND ALL LAWS, RULES AND REGULATIONS OF PUBLIC BODIES HAVING JURISDICTION.

INTERFERENCES:

PRIOR TO RUNNING ANY PIPING THE PLUMBING CONTRACTOR SHALL VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS IN THE FIELD. PLUMBING DESIGN IS SCHEMATIC IN NATURE, REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND FOR EXACT LOCATIONS OF FIXTURES/EQUIPMENT. CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE AREA WHERE THE WORK IS TO BE PERFORMED. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCOMMODATING ALL INTERFERENCES WITH THE WORK, OFFSETTING, MODIFYING, AND OTHERWISE FITTING THE NEW EQUIPMENT TO THE SPACE AVAILABLE

GUARANTEE:

ALL MATERIALS AND WORKMANSHIP PROVIDED SHALL BE WARRANTED AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

CLEAN-UP:

ALL DEBRIS, RUBBISH, SCRAPS, ETC. SHALL BE CLEANED UP AT THE END OF EACH WORK DAY. AT THE COMPLETION OF THE WORK, ALL NEW CONSTRUCTION WORK AND MATERIALS SHALL BE CLEANED UP OF MARKINGS, DIRT, ETC. AND LEFT IN A CLEAN AND SIGHTLY CONDITION, READY FOR USE BY THE OWNER.

PIPING MATERIALS:

POTABLE WATER:
COPPER PIPE: SHALL BE ASTM B 88 HARD DRAWN TEMPER COPPER, TYPE L OR K. FITTINGS SHALL BE ANSI B 16.22, WROUGHT COPPER, SOLDER JOINT OR PRESS-CONNECT FITTINGS WITH EPDM SEALING ELEMENT AND SMART CONNECT (SC) FEATURE. FOR SOLDER JOINTS, JOINTS SHALL BE MADE USING NON-CORROSIVE FLUX AND SOLDER COMPOUND MEETING NSF REQUIREMENTS FOR USE ON POTABLE WATER PIPING. PIPE ENDS SHALL BE CUT SQUARE AND CLEANED TO A BRIGHT METAL FINISH BEFORE SOLDERING. FOR UNDERGROUND APPLICATIONS, ASTM B 88 SOFT ANNEALED TEMPER COPPER, TYPE L OR K IS ACCEPTABLE.

PIPE INSULATION:
ALL PRESSURE TESTING SHALL BE COMPLETED BEFORE PIPING CAN BE INSULATED. ALL COLD AND HOT WATER PIPING ABOVE AND BELOW THE FLOOR SLABS, ENCLOSED IN WALLS, AND ROUTED ABOVE CEILING SHALL BE INSULATED. COLD WATER SHALL BE 1/2" THICK, HOT WATER AND CIRCULATED HOT WATER SHALL BE 1" THICK ARMAFLEX INSULATION AS MANUFACTURED BY ARMACELL LLC. ALL JOINTS AND SEAMS SHALL BE COMPLETELY SEALED WITH THE MANUFACTURER'S RECOMMENDED ADHESIVE TO PREVENT HEAT TRANSFER AND CONDENSATION. FLAME SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50.

ALL CAST IRON PIPE AND FITTINGS:

HUB AND SPIGOT: SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 74. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND LISTED BY NSF INTERNATIONAL.

HUBLESS: SHALL BE MANUFACTURED FROM GRAY CAST IRON AND SHALL CONFORM TO ASTM A 888, AND CISPI STANDARD 301. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND LISTED BY NSF INTERNATIONAL.

SANITARY SEWER WASTE AND VENT ABOVE GROUND:

HUB AND SPIGOT CAST IRON: JOINTS SHALL BE MADE USING A COMPRESSION GASKET MANUFACTURED FROM AN ELASTOMER MEETING THE REQUIREMENTS OF ASTM C 564.

HUBLESS CAST IRON: JOINTS SHALL BE MADE USING STANDARD DUTY, SHIELDED, STAINLESS-STEEL COUPLINGS CONFORMING TO CISPI-310 AND BE MARKED NSF; WITH STAINLESS-STEEL CORRUGATED SHIELD OF NOT LESS THAN .010" THICKNESS, STAINLESS-STEEL BANDS HAVING 4 SEALING CLAMPS FOR PIPE SIZES 1-1/2" THRU 4" AND 6 SEALING CLAMPS FOR PIPE SIZES 5" THRU 10" INSTALLED WITH A PRE-SET TORQUE WRENCH CALIBRATED AT 80 INCH POUNDS, AND ASTM C-564, RUBBER SLEEVE.

SCHEDULE 40 PVC DRAIN, WASTE AND VENT (DWV) PIPE AND FITTINGS: ASTM D-2665 WITH SOLVENT CEMENT JOINTS INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. (PVC SHALL NOT BE USED IN PLENUM SPACES WITHOUT APPROPRIATE PLENUM WRAP.)

SANITARY SEWER WASTE AND VENT BELOW GROUND:

HUB AND SPIGOT CAST IRON: JOINTS SHALL BE MADE USING A COMPRESSION GASKET MANUFACTURED FROM AN ELASTOMER MEETING THE REQUIREMENTS OF ASTM C 564.

HUBLESS CAST IRON: JOINTS SHALL BE HEAVY DUTY CONFORMING TO ASTM C-1540, WITH HEAVY DUTY TYPE 304 STAINLESS STEEL SHIELDED COUPLINGS WITH CORRUGATED STAINLESS STEEL SHIELD OF NOT LESS THAN .016" THICKNESS, STAINLESS STEEL BANDS HAVING 4 SEALING CLAMPS FOR PIPE SIZES 1-1/2" THRU 4" AND 6 SEALING CLAMPS FOR PIPE SIZES 5" THRU 10" INSTALLED WITH A PRE-SET TORQUE WRENCH CALIBRATED AT 80 INCH POUNDS, AND ASTM C-564, RUBBER SLEEVE.

SCHEDULE 40 PVC DRAIN, WASTE AND VENT (DWV) PIPE AND FITTINGS, ASTM D-2665 WITH SOLVENT CEMENT JOINTS INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D 2321 AND ASTM F 1668.

PIPE PAINTING:

ALL UN-INSULATED STEEL PIPING SHALL BE THOROUGHLY CLEANED, PRIMED AND PAINTED. PIPE CLEANING SOLVENT SHALL BE A NON-OILY SOLVENT EQUAL TO STOODARD SOLVENT OR HI-FLASH COAL TAR NAPHTHA. PRIME COATING MATERIAL SHALL BE ALKYD ZINC CHROMATE. FINISH MATERIAL SHALL BE ALUMINUM ALKYD PAINT. SURFACE PREPARATION AND PAINT APPLICATION SHALL BE IN STRICT ACCORDANCE WITH PAINTING MANUFACTURER'S RECOMMENDATIONS.

PIPE GRADING:

ALL SANITARY DRAIN PIPING SHALL BE RUN AT A UNIFORM SLOPE OF APPROXIMATELY 1/4" PER FOOT FOR 3" AND SMALLER AND 1/8" PER FOOT FOR 4" AND LARGER INSIDE THE BUILDING. INVERTS SHALL BE CHECKED AT ALL STARTING POINTS AND POINTS LEAVING THE BUILDING PRIOR TO STARTING WORK.

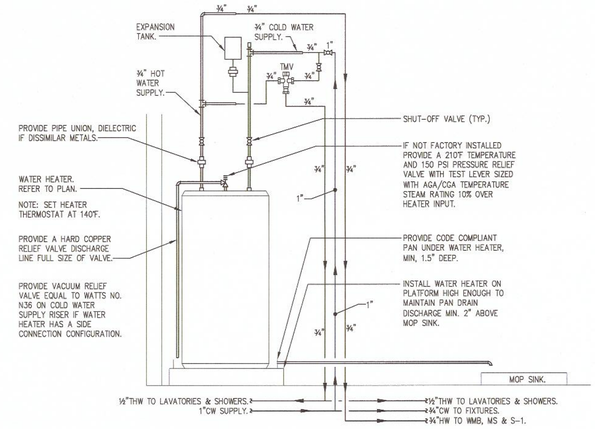
PIPE TESTING:

POTABLE WATER: ALL WATER PIPING SHALL BE TESTED BEFORE COVERING. PIPING SYSTEM SHALL BE SUBJECTED TO A HYDROSTATIC TEST AT 150 PSI AND SHALL REMAIN TIGHT FOR A PERIOD OF AT LEAST TWO (2) HOURS. TESTS SHALL COMPLY TO AWWA STANDARD C-60-77, SECTION 4.1.

SANITARY SEWER: SANITARY SEWER PIPING SHALL BE TESTED BEFORE COVERING. ALL OPENINGS, EXCEPT HIGHEST VENT SHALL BE PLUGGED AND THE SYSTEM FILLED WITH WATER TO 10'-0" ABOVE HIGHEST FIXTURE CONNECTED. SYSTEM SHALL STAND WITHOUT LEAK OR LOSS OF WATER FOR A PERIOD OF NOT LESS THAN FOUR (4) HOURS.

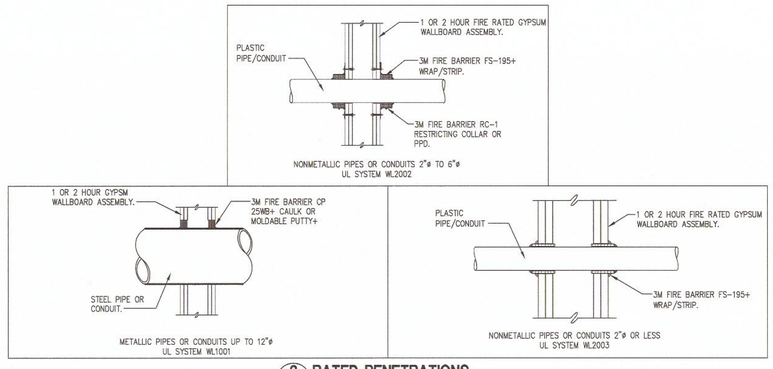
DISINFECTION & STERILIZATION:

THE COMPLETE WATER SUPPLY PIPING SYSTEM SHALL BE PURGED AND DISINFECTED, BEGINNING AT THE METER CONNECTION, IN ACCORDANCE WITH THE APPLICABLE PARAGRAPHS OF AWWA C651 OR C652, "STANDARD PROCEDURE FOR DISINFECTION OF WATER LINES" OR SECTION 610 IN THE 2012 NORTH CAROLINA PLUMBING CODE WHICHEVER IS MORE STRINGENT. THE SYSTEM SHALL BE COMPLETELY FLUSHED OUT WITH CLEAN, POTABLE WATER FOLLOWING PURGING AND DISINFECTION. THE REGIONAL HEALTH DEPARTMENT OR WATER COMPANY SHALL BE NOTIFIED WHEN THE SYSTEM IS TO BE DISINFECTED. THE TESTS SHALL BE OPEN TO INSPECTION FOR ALL AGENCIES TO WITNESS. LAB TEST SAMPLES SHALL BE TAKEN AND A CERTIFICATE OF APPROVAL OBTAINED BEFORE THE SYSTEM CAN BE PLACED IN SERVICE.



2 P2.21 WATER HEATER (WH) & TMV DETAIL
SCALE: NONE

PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS.



3 P2.21 RATED PENETRATIONS
SCALE: NONE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AWH	ANTI-FREEZE WALL HYDRANT
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
CD	CONDENSATE DRAIN
CI	CAST IRON
CO	FLOOR CLEANOUT
CW	DOMESTIC COLD WATER
DN	DOWN
ED	EQUIPMENT DRAIN
EL.	ELEVATION
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
HB	HOSE BIBB
HD	HUB DRAIN
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
I.E.	INVERT ELEVATION
NG	NATURAL GAS
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
PRV	PRESSURE REDUCING VALVE
SS	SANITARY SEWER
SSV	SANITARY SEWER VENT
THW	TEMPERED HOT WATER
THWR	TEMPERED HOT WATER RETURN
TYP	TYPICAL
UG	UNDERGROUND
VAC	VACUUM
VTR	VENT THRU ROOF
WCO	WALL CLEAN OUT
WHA	WATER HAMMER ARRESTER
YCO	YARD CLEAN OUT

SYMBOLS

SHUT-OFF/GATE VALVE
SHUT-OFF/BALL VALVE
CHECK VALVE
BACKFLOW PREVENTER
HOSE BIBB/WALL HYDRANT
WATER HAMMER ARRESTER
FLOOR DRAIN
SANITARY FLOOR SINK
HUB DRAIN
TIE POINT
CLEANOUT PLUG
FLOOR CLEAN OUT
WALL CLEAN OUT
PIPE DOWN
PIPE UP
PIPE UP OR DROP
PLUG VALVE
PRESSURE REGULATOR
BRANCH-TOP CONNECTION
BRANCH-BOTTOM CONNECTION
CAP ON END OF PIPE
ELBOW
TEE
UNION
SANITARY FITTING

PLUMBING LEGEND

—— CW ——	COLD WATER
— — CW — —	COLD WATER BURIED
—— HW ——	140°F HOT WATER
—— THW ——	110°F TEMPERED HOT WATER
—— SS ——	SANITARY SEWER
— — SS — —	SANITARY SEWER BURIED OR BELOW FLOOR
— — — — —	SANITARY SEWER VENT

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11/24/15

CAMP COURAGE

DR. CARY E. STROUD CAMPER CARE CENTER

GREENVILLE, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
A	2015.10.23	DESIGN DEVELOPMENT	DCB
B	2015.11.25	ISSUE FOR PERMIT	DCB

ISSUE FOR PERMIT 2015.11.25

PRINCIPAL IN CHARGE: JCL
PROJECT ENGINEER: DCB
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SHEET TITLE:
PLUMBING SCHEDULES, DETAILS, & SPECIFICATIONS

SHEET NO. P2.21

PROJ. NO. 015292.00

5/31/2016 3:15:53 PM \\server1\users$\tpoole\Documents\15147 ELECTRICAL DRAWINGS R15_tpoole.rvt
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SYMBOL	DESCRIPTION
A-1,3	HOME RUN TO LIGHTING/SERVICE PANEL. HASH MARKS, WHEN SHOWN, INDICATE NUMBERS OF CONDUCTORS. "/" INDICATES HOT WIRE, "N" INDICATES NEUTRAL CONDUCTOR, "P" INDICATES GROUND CONDUCTOR. HOME RUN NOTE INDICATES PANEL NAME AND CIRCUIT NAME OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE. ANY HOME RUN OR CONDUIT WITHOUT HASH MARKS IS TO CONTAIN 3 CONDUCTORS; 1 HOT, 1 NEUTRAL, AND 1 EQUIPMENT GROUND, EACH HOT CIRCUIT SHALL BE PAIRED WITH A SEPARATE NEUTRAL CONDUCTOR. SHARING OF NEUTRAL CONDUCTORS BETWEEN CIRCUITS IS NOT ALLOWED.
	EXPOSED CONDUIT
	CONDUIT RUN IN SLAB OR UNDERGROUND.
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS, UNLESS NOTED OTHERWISE.
	CONDUIT JUNCTION IN CONDULET OR JUNCTION BOX.
	FLEXIBLE CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
J	JUNCTION BOX STEM INDICATES WALL MOUNTED
	LIGHTING OR SERVICE PANEL, SURFACE MOUNTED.(208V)
EF	EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR FAN SPECIFICATIONS.
WH	WATER HEATER.
30/20/3P/3R	SAFETY DISCONNECT SWITCH. "30" INDICATES AMP RATING, "20" INDICATES FUSE SIZES, "3P" INDICATES NUMBER OF POLES, ENCLOSURE TO BE NEMA 1 UNLESS NOTED OTHERWISE (3R, 4X, ETC.) SQUARE D H300 SERIES HEAVY DUTY SAFETY SWITCH
PE	PHOTOELECTRIC CELL, SPEC GRADE, TO BE MOUNTED ON ROOF, FACING NORTH, TORK MODEL 2101 OR EQUAL.
	WIRING DEVICES
	NOTE: ALL WIRING DEVICES TO BE IVORY, WITH #302 STAINLESS STEEL COVERPLATE (FLUSH MOUNTED) UNLESS NOTED OTHERWISE ON THE DRAWING OR SPECIFICATIONS.
	SWITCH SYMBOLS
S_M	MANUAL MOTOR STARTER
S	SINGLE POLE LIGHTING SWITCH 120-277 VOLT, 20 AMP, SPEC GRADE. LETTER ("a") DESIGNATES WHICH FIXTURES ARE CONTROLLED FROM WHICH SWITCHES WHEN MULTIPLE SWITCHES ARE USED ON ONE CIRCUIT
S_3	SAME AS "S" ABOVE EXCEPT "3" IN SUBSCRIPT DENOTES 3-WAY SWITCH.
S_D	DIMMER SWITCH WITH SLIDE CONTROL
S_4	SAME AS "S" ABOVE EXCEPT "4" IN SUBSCRIPT DENOTES 4-WAY SWITCH.
S_{OS}	PASSIVE INFRARED WALL SWITCH/OCCUPANCY SENSOR - WATTSTOPPER # PW-301
	UNI-DIRECTIONAL DUAL TECHNOLOGY CEILING/WALL OCCUPANCY SENSOR - WATTSTOPPER # DT-200
D	OMNI-DIRECTIONAL PASSIVE INFRARED CEILING OCCUPANCY SENSOR - WATTSTOPPER # CI-300
	STRAIGHT BLADE DEVICE SYMBOLS
	20A, 125V, 2P, 3W, NEMA 5-20R, DUPLEX RECEPTACLE. HUBBELL 5362-I OR EQUAL. STANDARD POWER. "WP" DENOTES WEATHERPROOF COVER PLATE. "GFI" DENOTES GFCI TYPE.
	SAME AS " " ABOVE EXCEPT MOUNTED IN FLOOR BOX.
	SAME AS " " ABOVE EXCEPT BOTTOM OF OUTLET MOUNTED ABOVE COUNTER HEIGHT
	QUADRAPLEX - TWO DUPLEX OUTLETS MOUNTED IN A TWO GANG BOX WITH TWO GANG COVER PLATE
	FIRE ALARM, COMMUNICATIONS AND CONTROLS
	COMBINATION DATA/TELEPHONE OUTLET WITH 1" CONDUIT TO CABLE TRAY, WITH PULL WIRE. JACKS, CABLE AND BOX COVER BY SYSTEM INSTALLER. "W" INDICATES WALL PHONE OUTLET, 54" A.F.F.
	COMBINATION DATA/TELEPHONE OUTLET LOCATED IN FLOOR.
T	CABLE TV OUTLET WITH 3/4"C TO CEILING SPACE WITH PULLWIRE. TELEVISION CONNECTION, PROVIDE CHIEF # PAC525, 16x9 WALL ENCLOSURE (OR EQUAL). PROVIDE (1) 2" CONDUIT TO ABOVE CEILING AND (1) 2" CONDUIT TO BELOW FLOOR. COORDINATE EXACT BOX LOCATION WITH ARCHITECT TO BE CONCEALED BEHIND T.V.
	TELEPHONE BOARD, ROUTE NO. 6 AWG CU. GROUND TO SERVICE GROUND
FACP	FIRE ALARM CONTROL PANEL
ANN	REMOTE ANNUNCIATOR PANEL
S	AREA SMOKE DETECTOR WITH SOUNDER BASE.
	FIRE ALARM SYSTEM STROBE UNIT ONLY
	FIRE ALARM SYSTEM HORN/STROBE UNIT
F	MANUAL FIRE ALARM PULL STATION
	LIGHTING SYMBOLS:
OR	SWITCHED FIXTURE WITH EMERGENCY LIGHTED BATTERY BACKUP. ROUTE `HOT' SENSING CIRCUIT TO BATTERY
	PENDANT LINEAR DIRECT/INDIRECT.
	4' STRIP FIXTURE
	UNDER CABINET LIGHT
	WALL MOUNTED FIXTURE
	SURFACE CEILING MOUNTED OR RECESSED DOWNLIGHT
	CEILING FAN WITH LIGHT
	EXTERIOR WALL SCONCE
	POLE LIGHT
	EXIT FIXTURE WITH INTEGRAL BATTERIES - ARROW INDICATES ILLUMINATED DIRECTIONAL ARROWS, SHADED SECTION INDICATES FACE WHICH IS ILLUMINATED. STEM INDICATES WALL MOUNTED. ALL EXIT LIGHTS SHALL BE MOUNTED TO THE STRUCTURE.
	COMBINATION EMERGENCY LIGHT AND EXIT FIXTURE.

GENERAL LIGHTING NOTES:

1. MANUFACTURERS & NUMBERS ARE LISTED TO ESTABLISH QUALITY ONLY AND NOT TO LIMIT COMPETITION. PRIOR TO BIDDING, SUBSTITUTIONS ARE ALLOWED SUBJECT TO SUBMITTAL DATA, PHOTOMETRICS & ENGINEERS APPROVAL AS REQUIRED BY SPECIFICATIONS.
2. ALL FIXTURES TO BE U.L. LABELED. ALL EXTERIOR FIXTURES SHALL HAVE U.L. WET LABEL OR DAMP LABEL AS REQUIRED BY LOCATION. CONTRACTOR SHALL VERIFY BEFORE SUBMITTING FIXTURE.
3. PROVIDE ALL MOUNTING ACCESSORIES, BAR HANGARS & HARDWARE REQUIRED.
4. EMERGENCY BATTERIES SHALL PROVIDE A MINIMUM OF 1100 LUMEN OUTPUT. BATTERIES SHALL CONTAIN INTEGRAL SENSING CIRCUIT TO ALLOW FIXTURE TO BE SWITCHED WITH AREA FIXTURES FOR NORMAL OPERATION AND ENERGIZE LED'S UPON LOSS OF POWER CIRCUIT, REGARDLESS OF SWITCH POSITION. MANUFACTURER SHALL BE BODINE OR APPROVED EQUAL.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MOUNTING HEIGHT	LAMP	WATTAGE	VOLTAGE
AL	ASYMMETRIC LED WALL MOUNT INDIRECT 14" FIXTURE	COOPER # WL-IN-C-B03-AI-40K-UNV-K-RC-D10	10'-6" AFF	NOMINAL 6000 LUMEN LED PANEL 4000K	70 VA	UNIVERSAL
BL	CONCRETE 11" ROUND OUTDOOR BOLLARD, WET LISTED.	VISIONAIRE LIGHTING # EDS-1B-HZG-20LC-7-5K-UNV-AB-BK-MD	SEE MODEL	COATED PMH	21 VA	UNIVERSAL
CLF	CEILING FAN WITH INTEGRATED DOWNLIGHT, DARK WOOD BLADES, BRONZE FINISH	KICHLER # 300114OZ OR APPROVED EQUAL	SEE MODEL	3-GE ENERGY SMART LED 13W LAMP	70 VA	120V
EM	WALL MOUNTED SPECIFICATION GRADE TWIN-HEAD EMERGENCY LIGHT WITH BATTERY BACKUP	BARRON # LED-90-BL	8'-0" AFF	LED	10 VA	UNIVERSAL
EX	UNIVERSAL MOUNTED EXIT SIGN WITH RED LETTERS ON WHITE HOUSING. DIFFUSER LENS, SPECIFICATION GRADE DIE CAST ALUMINUM HOUSING. EMERGENCY BATTERY BACKUP.	LITHONIA # LE-S-W-X-R-EL N EMERGILITE # WWPDN-X-R LIGHTALARMS # X-XDN-W-RW		RED LED BY MFR	5 VA	UNIVERSAL
EXM	UNIVERSAL MOUNTED EXIT SIGN COMBO WITH RED LETTERS ON WHITE HOUSING. DIFFUSER LENS, WITH TWIN LED EMERGENCY HEADS.	LITHONIA # LHQM-LED-R EMERGILITE # ELXN400-R-2LED LIGHTALARMS # UQLXN500-R-2LED		RED LED/LED HEADS BY MFR	5 VA	UNIVERSAL
ILA	4', LED CHANNEL STRIP LIGHT, STEEL HOUSING, FROSTED ACRYLIC LENS, WHITE FINISH, PAF, 0-10V DIMMING DRIVER	LITHONIA # ZL1D-L48-5000LM-FST-MVOLT-35K-80CRI-WH LSI # SDL-4-LED-HO-WW-UE COLUMBIA # LCL4-35-ML-EDU-PAF	SURFACE MOUNT	NOMINAL 5000 LUMEN LED PANEL 3500K	48 VA	UNIVERSAL
ILAE	SAME AS 'IA' EXCEPT WITH EMERGENCY BATTERY BACKUP	LITHONIA # ZL1D-L48-5000LM-FST-MVOLT-35K-80CRI-E7W-WH LSI # SDL-4-LED-HO-WW-UE-EM COLUMBIA # LCL4-35-ML-EDU-PAF-ELL14	SURFACE MOUNT	NOMINAL 5000 LUMEN LED PANEL 3500K	48 VA	UNIVERSAL
PA	LED AREA/ROADWAY LIGHT, POLE MOUNTED WITH ALUMINUM BODY, TYPE 3 ROADWAY OPTICS AND BRONZE FINISH, POLE WITH RAISED ROUND CONCRETE BASE.	COOPER # GLEON-AE-03-LED-E1-T3R-BZ-EA-7060-7100-MS/DIM-L40 COOPER RSS POLE OR EQUAL	20'	64 LED PANEL/ 60K	157 VA	UNIVERSAL
PLA	PENDANT LINEAR DIRECT/INDIRECT, ADJUSTABLE CABLE	ALERA # LCV-4-45-ML-PERF-CM-48-ED-U-MW OR APPROVED EQUAL	8' - 6"	NOMINAL 4300 LUMEN LED PANEL, 3500K	43 VA	UNIVERSAL
PLAE	SAME AS 'PLA' EXCEPT WITH EMERGENCY BATTERY BACKUP.	ALERA # LCV-4-45-ML-PERF-CM-48-ED-U-MW-ELL10 OR APPROVED EQUAL	8' - 6"	NOMINAL 4300 LUMEN LED PANEL, 3500K	43 VA	UNIVERSAL
PLB	10" PENDANT LED CYLINDER, MATTE BLACK FINISH, CLEAR REFLECTOR	PRESCOLITE # MC10ED-P-6L-35K-8-FL35-26-BL OR APPROVED EQUAL	RECESSED	NOMINAL 6000 LUMEN LED PANEL, 3500K	67 VA	UNIVERSAL
RB	6" DIA. RECESSED LED CAN LIGHT WITH CLEAR APERTURE	CONTECH # RA6LIC-535K-12D2-CST6322L2-CLR	RECESSED	NOMINAL 2000 LUMEN LED PANEL 3500K	29 VA	UNIVERSAL
RS	6" DIA. RECESSED LED CAN LIGHT WITH COVER, WET LISTED	CONTECH # RA6LIC-535K-12D2-CTR6327L2-CLR	RECESSED	NOMINAL 2000 LUMEN LED PANEL 3500K	29 VA	UNIVERSAL
UC	FLEXIBLE LED RIBBON UNDER-CABINET LIGHT WITH 18 LEDs AND 4.4 WATTS PER FOOT, MOUNTED IN .8" WIDE ALUMINUM CHANNEL WITH FROSTED LENS. RIBBON AND CHANNEL TO BE 3' IN LENGTH. .	ACOLYTE # RB244.435 WITH CHANNEL # CHAS11F AND CLIP # CHMNTAS1 JESCO # DL-FLEX-UP-ULTRA-35K/CH6/FL6/CH-CLIP TIVOLI # TPL-HO-4.4-I-35-3' 24+ADUL-300-3-4-24-D CHANNEL # TPL-I-MCHAN-8 AND FROSTED TUBE # TPL-I-TUBE-C/F-8	MOUNT UNDER CABINETS	54 LED RIBBON 3500K	14 VA	24V VIA 277V XFMR
WLAE	4' WALL MOUNTED BATHROOM FIXTURE, 1 LAMP UP / 1 LAMP DOWN, WHITE, PAF	WILLIAMS #WMAUD-4-LEDPH30/835U/ PH30/835D-AF-UNV OR APPROVED EQUAL	7' - 6"	NOMINAL 3000 LUMEN LED UP/DOWN 3500K	74 VA	UNIVERSAL
WP	WALL MOUNTED MINI-SCONCE, CUTOFF, MEDIUM THROW, DIE CAST ALUMINUM HOUSING AND DOOR FRAME, TEMPERED GLASS GASKETED LENS, SPECULAR EXTRUDED POLISHED ANODIZED SEALED REFLECTOR, WET LOCATION.	LITHONIA # WSQLED-1-10A700/40K-SR3-MVOLT-DBLXD	8'-0" AFG	NOMINAL 2000 LUMEN LED PANEL 4000K	24 VA	UNIVERSAL
WPE	WALL MOUNTED MINI-SCONCE, CUTOFF, MEDIUM THROW, DIE CAST ALUMINUM HOUSING AND DOOR FRAME, TEMPERED GLASS GASKETED LENS, SPECULAR EXTRUDED POLISHED ANODIZED SEALED REFLECTOR, WET LOCATION WITH REMOTE MOUNTED EMERGENCY BACKUP COMPLETE WITH REQUIRED INTERCONNECTING WIRING, TEST SWITCH MOUNTING TRAY AND INDICATOR LIGHT.	LITHONIA # WSQLED-1-10A700/40K-SR3-MVOLT-ELCW-DBLXD	8'-0" AFG	NOMINAL 2000 LUMEN LED PANEL 4000K	24 VA	UNIVERSAL

ELECTRICAL GENERAL NOTES:

1. INSPECT SITE PRIOR TO SUBMITTING BID. DRAWINGS ARE INTENDED TO COVER THE REQUIRED ELECTRICAL SYSTEMS. DRAWINGS MAY NOT SHOW COMPLETE OR ACCURATE DETAILS OF THE BUILDING OR SYSTEM IN EVERY RESPECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY ADDITIONAL INFORMATION AS REQUIRED.
2. CONFORM TO THE NATIONAL ELECTRICAL CODE (2011), IBC (2012), IECC (2009), APPLICABLE NEMA, ANSI AND IEEE PUBLICATIONS, U.L. AND ADA STANDARDS AND OSHA REQUIREMENTS. COMPLY WITH LOCAL, COUNTY, STATE AND NATIONAL CODES HAVING JURISDICTION.
3. FURNISH AND INSTALL ALL MATERIALS IN A NEAT AND WORKMANLIKE FASHION. ALL MATERIALS SHALL BE NEW, WITH FIRST QUALITY AND UL LABEL.
4. VERIFY ALL DIMENSIONS AND CLEARANCES PRIOR TO INSTALLATION OF EQUIPMENT AND RACEWAYS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK WITH THAT OF ALL OTHER TRADES AS REQUIRED.
5. CONDUIT SHALL BE EMT FOR BRANCH CIRCUIT WIRING AS ALLOWED BY NEC, EXCEPT THAT SET SCREW OR CRIMP FITTINGS ARE NOT ALLOWED. WHERE EXPOSED TO PHYSICAL DAMAGE CONDUITS SHALL BE RIGID GALVANIZED STEEL. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUCTORS SHALL BE TYPE THHN/THWN, STRANDED 600V COPPER BUILDING WIRE. MINIMUM SIZE SHALL BE #12 AWG COPPER UNLESS NOTED. UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 WITH TRANSITION TO RIGID GALVANIZED STEEL FOR EXPOSED CONDUITS.
6. PROVIDE GROUNDING FOR ALL EQUIPMENT IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. GROUND SERVICE TO BUILDING STEEL, DRIVEN GROUND ROD AND COLD WATER PIPE.
7. ALL ENCLOSURES SHALL BE OF THE NEMA TYPE WHICH IS SUITABLE FOR THE APPLICATION.
8. ALL WORK SHALL HAVE PROPER LABELING AND NAMEPLATES. ALL CIRCUITS SHALL BE LABELED AT PANELS AND BOXES AS INDICATED. ALL PANELS AND DISCONNECTS ARE TO BE PERMANENTLY MARKED WITH NAME OR EQUIPMENT SERVED. ALL PANELS ARE TO BE PROVIDED WITH TYPEWRITTEN PANEL SCHEDULES.
9. ALL BREAKERS ON CIRCUITS SUPPLYING HVAC EQUIPMENT SHALL BE TYPE HACR BREAKERS.
10. PROVIDE TELEPHONE ENTRY CONDUIT AND CONNECTION BOARD AS REQUIRED. STUB CONDUIT INTO SPACE AND EXTEND BEYOND PAVEMENT. COORDINATE WITH TELEPHONE SERVICE PROVIDER AND PAY ALL CHARGES. SEAL ALL TELEPHONE SERVICE CONDUIT AND AROUND CABLES TO PREVENT WATER ENTRY AROUND CONDUIT OR THRU CONDUIT.
11. COORDINATE WITH ELECTRICAL UTILITY AS REQUIRED FOR SERVICE ENTRY. TRANSFORMTER AND METER ARE EXISTING. PAY ALL REQUIRED FEES OR CHARGES FOR SERVICES SHOWN.
12. THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS BEFORE PLACING IN OPERATION. RESTORE FINISHED SURFACES IF DAMAGED AND DELIVER THE ENTIRE INSTALLATION IN AN APPROVED CONDITION. INSTRUCT THE OWNERS' PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS. FURNISH TO THE OWNER THREE SETS OF OPERATION AND MAINTENANCE MANUALS FOR EACH SYSTEM.
13. GUARANTEE THE WORK INSTALLED FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE. DEFECTS WHICH APPEAR AS A RESULT OF NORMAL USAGE SHALL BE REMEDIED BY THE CONTRACTOR TO THE COMPLETE SATISFACTION OF THE OWNER WITHOUT COST TO THE OWNER.
14. CONTRACTOR SHALL KEEP CURRENT A SET OF PLANS FOR THE DURATION OF CONSTRUCTION WITH ALL CHANGES TO WORK NEATLY AND ACCURATELY MARKED IN RED AND SHALL TURN OVER TO OWNER AT COMPLETION OF PROJECT.
15. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS OF 2012 IBC AND SHALL BE SUBJECT TO SPECIAL INSPECTION REQUIREMENTS, CHAPTER 17 OF 2012 IBC AS IT RELATES TO ELECTRICAL EQUIPMENT.
16. FLOORBOXES INSTALLED IN CONTACT WITH SLAB ON GRADE SHALL BE CAST TYPE. STAMPED STEEL BOXES ARE ACCEPTABLE ONLY IN ELEVATED SLABS. COORDINATE ALL OPENINGS IN SLAB WITH STRUCTURAL ENGINEER BEFORE OPENING.
17. ALL PANELBOARDS SHALL BE FURNISHED WITH COPPER BUS BARS AND A COPPER GROUNDING BUS BAR.

ABBREVIATIONS:

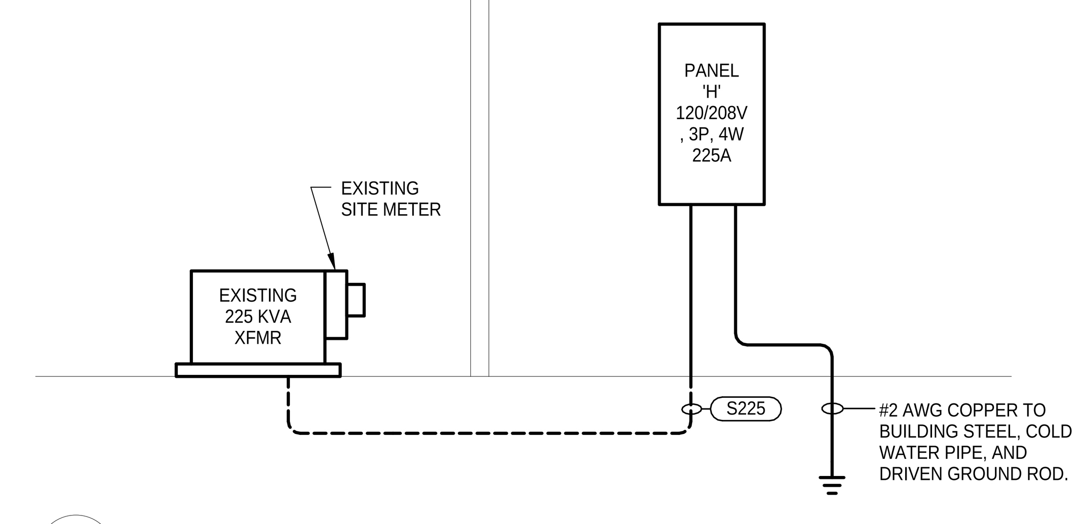
AFF	ABOVE FINISHED FLOOR	FU	FUSE	RECPT	RECEPTACLE (R.)
AFG	ABOVE FINISHED GRADE	GFI	GROUND FAULT INTERRUPTER DEVICE	REQD	REQUIRED
ACH	ABOVE COUNTER HEIGHT	LTG	LIGHTING (L.)	TYP	TYPICAL
AL	ALUMINUM	MLO	MAIN LUGS ONLY	UV	UNIT VENTILATOR
BKR	BREAKER	MCB	MAIN CIRCUIT BREAKER	UH	UNIT HEATER
CU	COPPER	MFR	MANUFACTURER	UGND	UNDERGROUND
CKT	CIRCUIT	MDP	MAIN DISTRIBUTION PANEL	W/	WITH
D	DEDICATED OUTLET	MSB	MAIN SWITCHBOARD	WH	WATER HEATER
DWG	DRAWING	NTS	NOT TO SCALE	WP	WEATHER PROOF
EC	ELECTRICAL CONTRACTOR	PH	PHASE	XFMR	TRANSFORMER
EMT	ELECTRICAL METALLIC TUBING	PNL	PANEL		
EWC	ELECTRIC WATER COOLER	PVC	POLYVINYL CHLORIDE CONDUIT		

CABLE/CONDUIT SCHEDULE

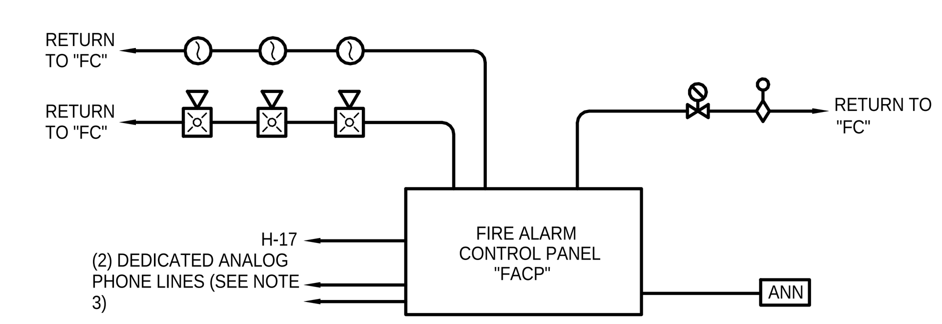
TAG	WIRE AND CONDUIT
S225	4 #4/0; 2 1/2"C

NOTE:

1. BUILDING TO BE METERED AT EXISTING SITE METER (COORDINATE WITH BLUE RIDGE ELECTRIC).



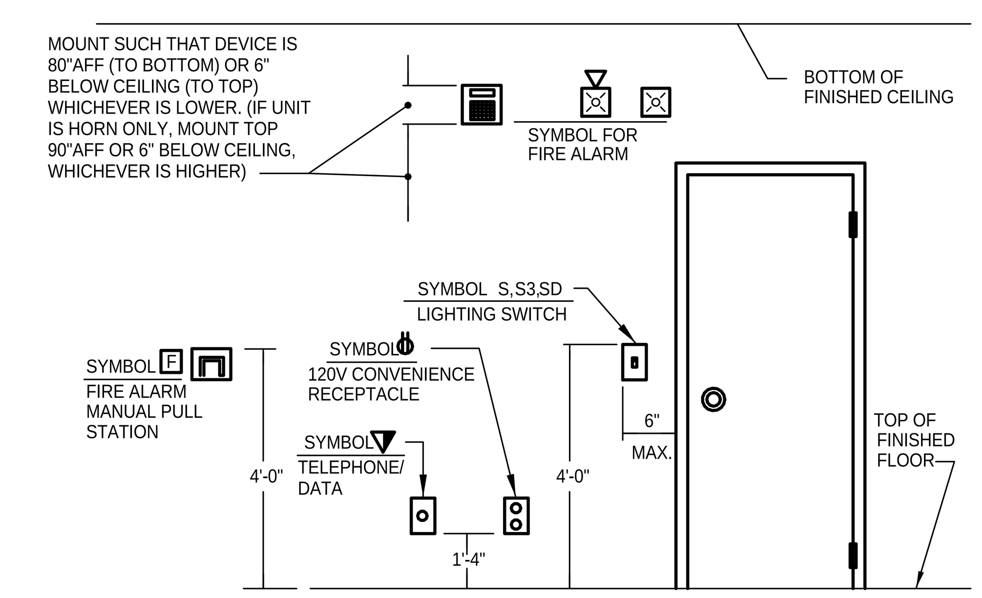
4 E0.01 ELECTRICAL RISER DIAGRAM
NOT TO SCALE



NOTES;

1. ALL WIRING SHALL BE IN CONDUIT. ALL CONDUIT SHALL BE 3/4" MIN. WITH WIRING AS REQUIRED BY MANUFACTURER. PAINT ALL JUNCTION BOXES, COVERS AND MARK CONDUIT EVERY 10' WITH RED PAINT.
2. SEE 1/E1.01 FOR QUANTITIES AND LOCATIONS OF DEVICES.
3. COORDINATE WITH OWNER TO PROVIDE.

3 E0.01 FIRE ALARM RISER DIAGRAM
NOT TO SCALE



NOTES:

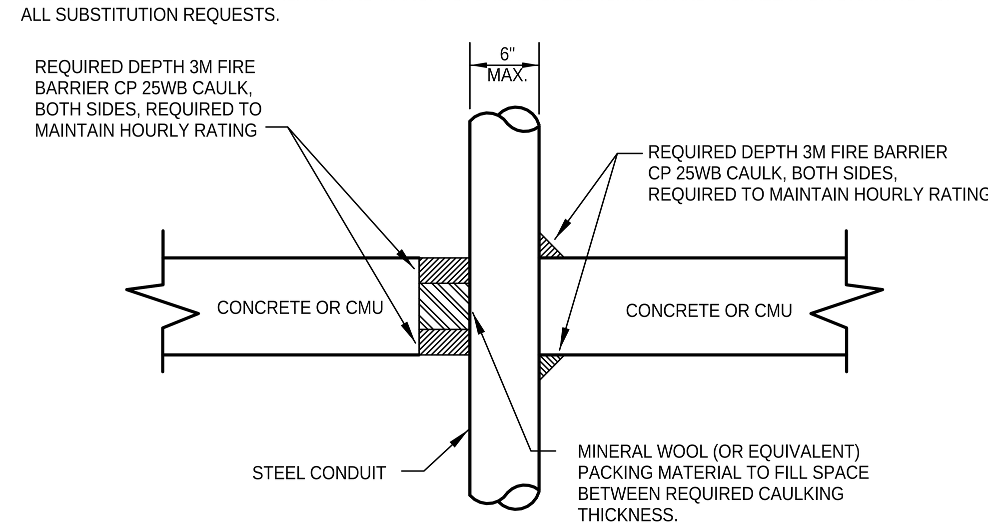
1. DEVICE BOXES MOUNTED IN THE SAME WALL BUT IN SEPARATE ROOMS OR SPACES SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY.

1 E0.01 TYPICAL DEVICE MOUNTING HEIGHT
NOT TO SCALE

PANEL	H	CABINET	SURFACE	TYPE	SQUARE D NQ
VOLTAGE	120/208 Wye PHASE 3 WIRES 4	FEEDER	BOTTOM	MAINS	225 A MCB

DEVICE AMPS TRIP	POLES	NOTES	BRANCH CIRCUIT DESIGNATION	No.	PHASE LOAD (VOLT-AMPS) A	A	B	B	C	C	No.	BRANCH CIRCUIT DESIGNATION	NOTES	POLES	DEVICE AMPS TRIP
20 A	1		L.-INFIRMARY 113	1	425	540					2	R.-INFIRMARY		1	20 A
20 A	1		L.-CORRIDOR	3			459	720			4	R.-INFIRMARY BEDS		1	20 A
20 A	1		L.-BEDROOMS109,112,TLTS	5					482	1500	6	R.-COFFEE INFIRMARY		1	20 A
20 A	1		L.-STO. 106,LAUND. 107, TLT 105	7	429	1500					8	R.-HOT WATER POT		1	20 A
20 A	1		L.-LIVING ROOM 101	9			505	900			10	R.-SW BEDROOM AND BATH		1	20 A
20 A	1		L.- EXTERIOR	11					344	720	12	R.-S BEDROOM AND BATH		1	20 A
40 A	2		WH	13	3000	180					14	R.-STORAGE		1	20 A
				15			3000	360			16	R.-TELEPHONE BOARD		1	20 A
20 A	1		FACP	17					300	360	18	R.-TELEPHONE BOARD		1	20 A
20 A	1		R. - DRINKING FOUNTAIN	19	500	2750					20	R.-DRYER		2	35 A
20 A	1		R. - DRINKING FOUNTAIN	21			500	2750			22				
20 A	1		SPARE	23					0	180	24	R.-WASHER		1	20 A
20 A	1		SPARE	25	0	1260					26	R.-SE BEDROOM AND BATH		1	20 A
50 A	2		AHU-1	27			4784	840			28	R.-DRUG CLOSET REF.		1	20 A
				29					4784	1260	30	R.-DRUG CLOSET AND LIVING RM		1	20 A
35 A	2		AHU-2	31	3328	1500					32	R.-COFFEE		1	20 A
				33			3328	1500			34	R.-MICROWAVE		1	20 A
50 A	2		HP-1	35					3016	1500	36	R.-TOASTER		1	20 A
				37	3016	840					38	R.-REFRIGERATOR		1	20 A
25 A	2		HP-2	39			1779	900			40	R.-PORCH		1	20 A
				41					1779	180	42	P.-MEZZANINE		1	20 A
RATING 22K AIC					19.3 kVA		22.3 kVA		16.4 kVA			PANELBOARD LOAD TOTAL			57.7 kVA

PROVIDE FIRESTOPPING THRU ALL RATED (1 HOUR AND ABOVE) WALLS. FIRESTOPPING SHALL BE 3M CP 25WB CAULK OR FIREDAM 150 CAULK OR EQUAL. FIRESTOPPING SHALL BE AS REQUIRED TO MAINTAIN A U.L. SYSTEM CLOSURE. PROVIDE U.L. NO. AND MANUFACTURER'S SPECIFICATION AND INSTALLATION DRAWING FOR ALL SUBSTITUTION REQUESTS.



2 E0.01 TYPICAL CONDUIT SLEEVE DETAIL
NOT TO SCALE

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SOUTH CAROLINA PROFESSIONAL ENGINEER DONALD J. BURDETTE No. 9330 6/1/16

GREENVILLE COUNTY
DR. CARY E. STROUD CAMPER CARE CENTER
MARIETTA, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
A	2015.10.23	DESIGN DEVELOPMENT	DJB
B	2015.11.25	ISSUE FOR PERMIT	DJB
C	2016.6.1	BID SET	DJB

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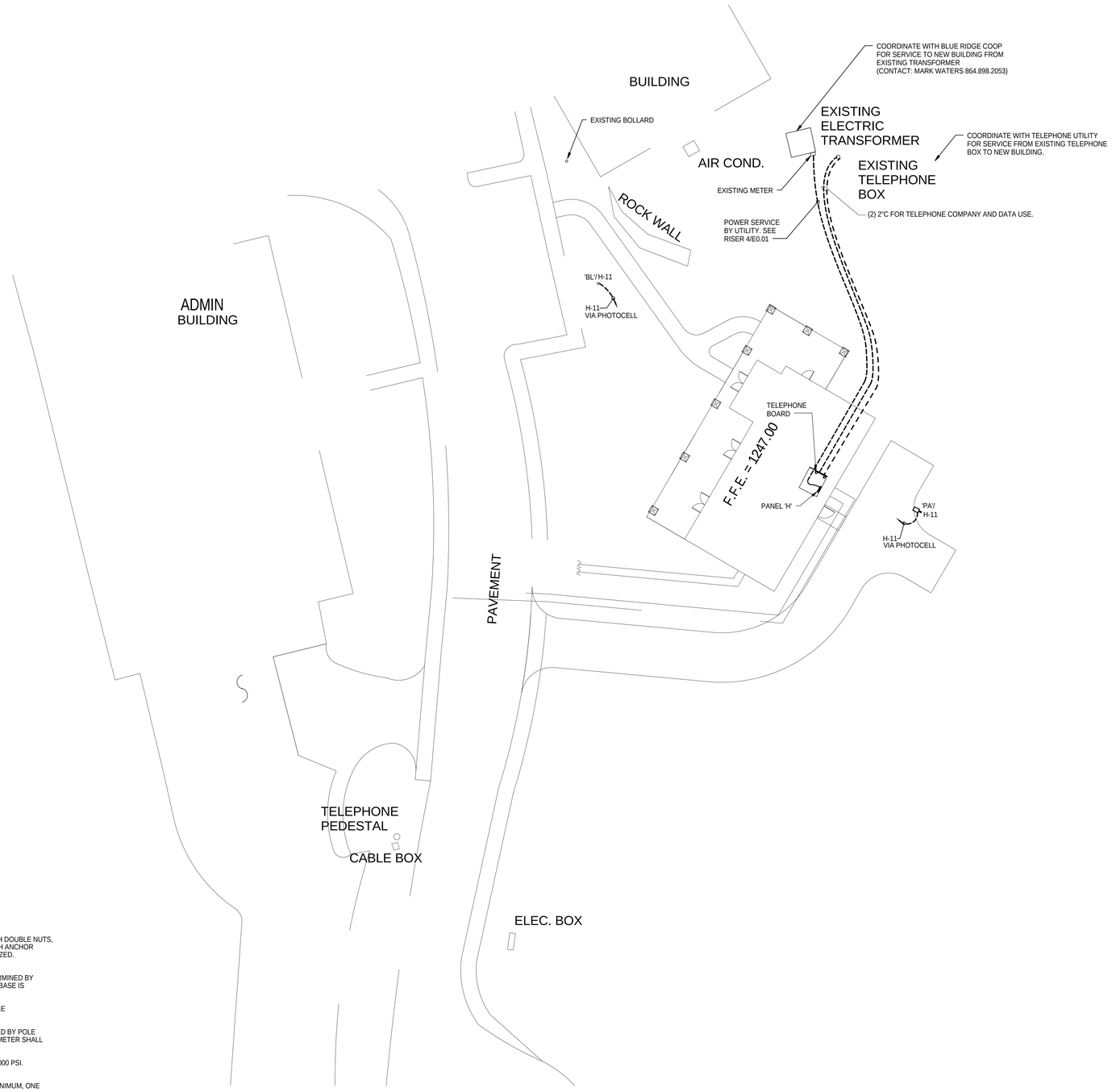
PRINCIPAL IN CHARGE: DJB
PROJECT ARCHITECT: KNC
DRAWN BY: TMP/LJK

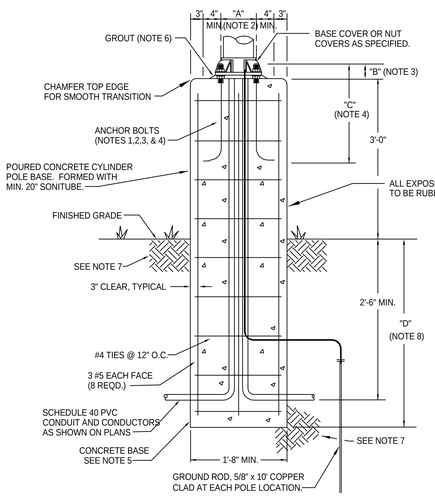
SHEET TITLE:
ELECTRICAL LEGEND AND SCHEDULES

SHEET NO. PROJ. NO. 015292.00

E0.01



1 E0.02 ELECTRICAL SITE PLAN
1/16" = 1'-0"



NOTES

1. POLE SHALL BE PROVIDED WITH MINIMUM OF FOUR ANCHOR BOLTS WITH DOUBLE NUTS, DOUBLE FLAT WASHERS, AND ONE LOCK WASHER SIZED TO MATCH EACH ANCHOR BOLT. ALL NUTS, WASHERS, AND BOLTS SHALL BE HOT DIPPED GALVANIZED.
2. ANCHOR BOLT GAGE, DIMENSION "A", SHALL BE AS REQUIRED BY POLE MANUFACTURER. EXACT LOCATION OF ANCHOR BOLTS SHALL BE DETERMINED BY CONTRACTOR AFTER POLES ARE PURCHASED AND BEFORE CONCRETE BASE IS CONSTRUCTED.
3. BOLT PROJECTION, DIMENSION "B", SHALL BE AS RECOMMENDED BY POLE MANUFACTURER AND SHALL NOT BE LESS THAN 3".
4. ANCHOR BOLT EMBEDMENT, DIMENSION "C", SHALL BE AS RECOMMENDED BY POLE MANUFACTURER AND SHALL NOT BE LESS THAN 12". ANCHOR BOLT DIAMETER SHALL NOT BE LESS THAN 3/4".
5. CONCRETE BASE SHALL BE OF MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. REINFORCING BARS SHALL BE DEFORMED STEEL, GRADE 60.
6. GROUT SHALL BE PRE-BAG MIX NON-SHRINK, NON-METALLIC, 5000 PSI MINIMUM, ONE TO TWO INCHES THICK.
7. SOIL AROUND FOUNDATION BASE SHALL BE NON-ORGANIC GRANULAR SOIL COMPACTED TO 95% STANDARD PROCTOR (ASTM D-698). TOP 4 TO 6 INCHES MAY BE TOP SOIL OR PAVEMENT.
8. FOUNDATION EMBEDMENT DEPTH, DIMENSION "D", SHALL BE 15 PERCENT OF POLE HEIGHT ABOVE GRADE, MINIMUM OF 3'-0".
9. BURIED CONCRETE BASE SHALL BE USED ONLY WHEN POLE IS PROTECTED ON SITE BY BARRIERS OR BY VIRTUE OF LOCATION.

2 E0.02 PEDESTAL CONCRETE BASE FOR METAL POLE
NOT TO SCALE

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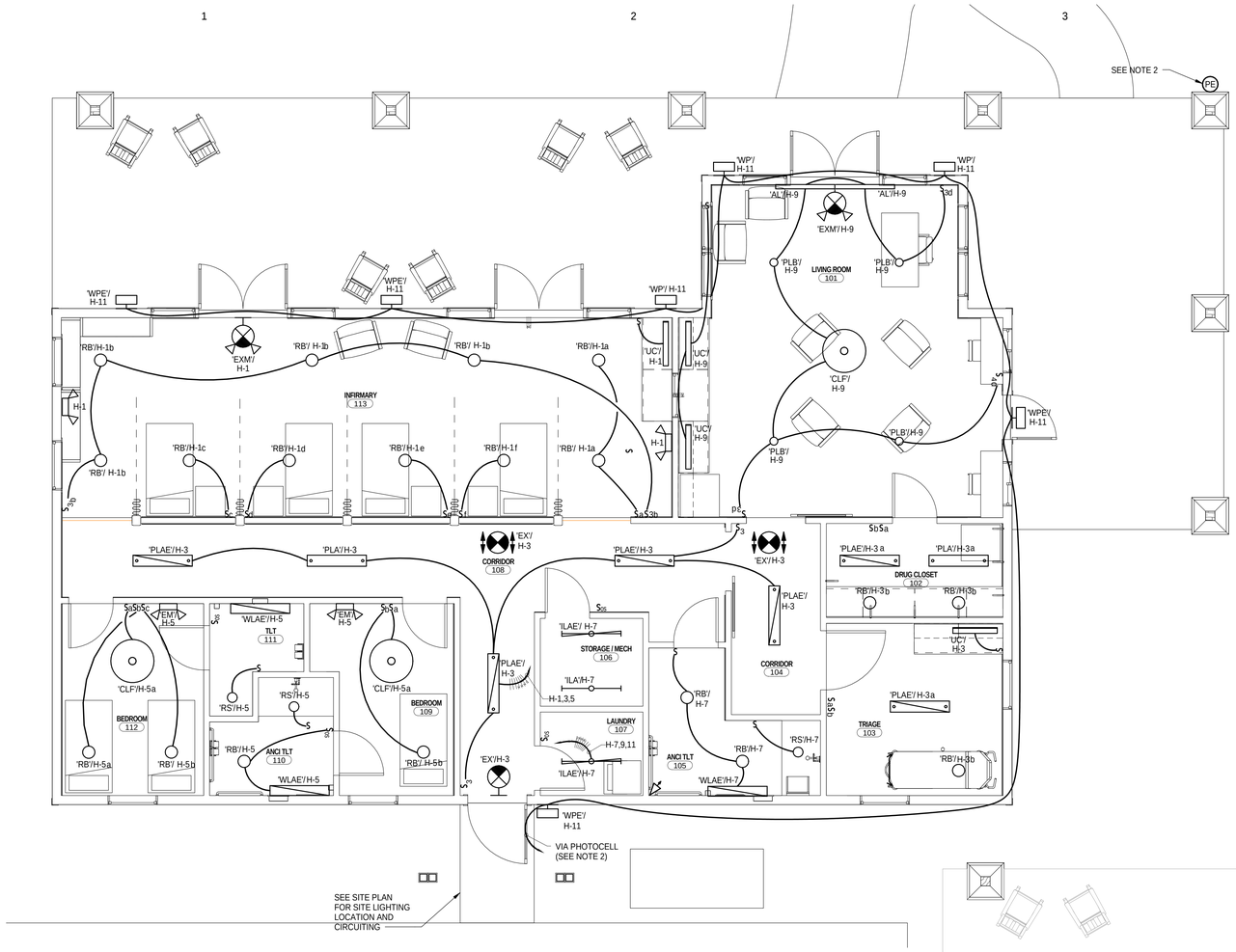
PROJECT ARCHITECT: KNC
DRAWN BY: TMP/LJK

SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NO. E0.02

PROJ. NO. 015292.00

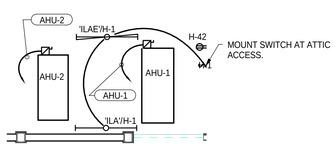


2 E1.01 ELECTRICAL LIGHTING PLAN
1/4" = 1'-0"

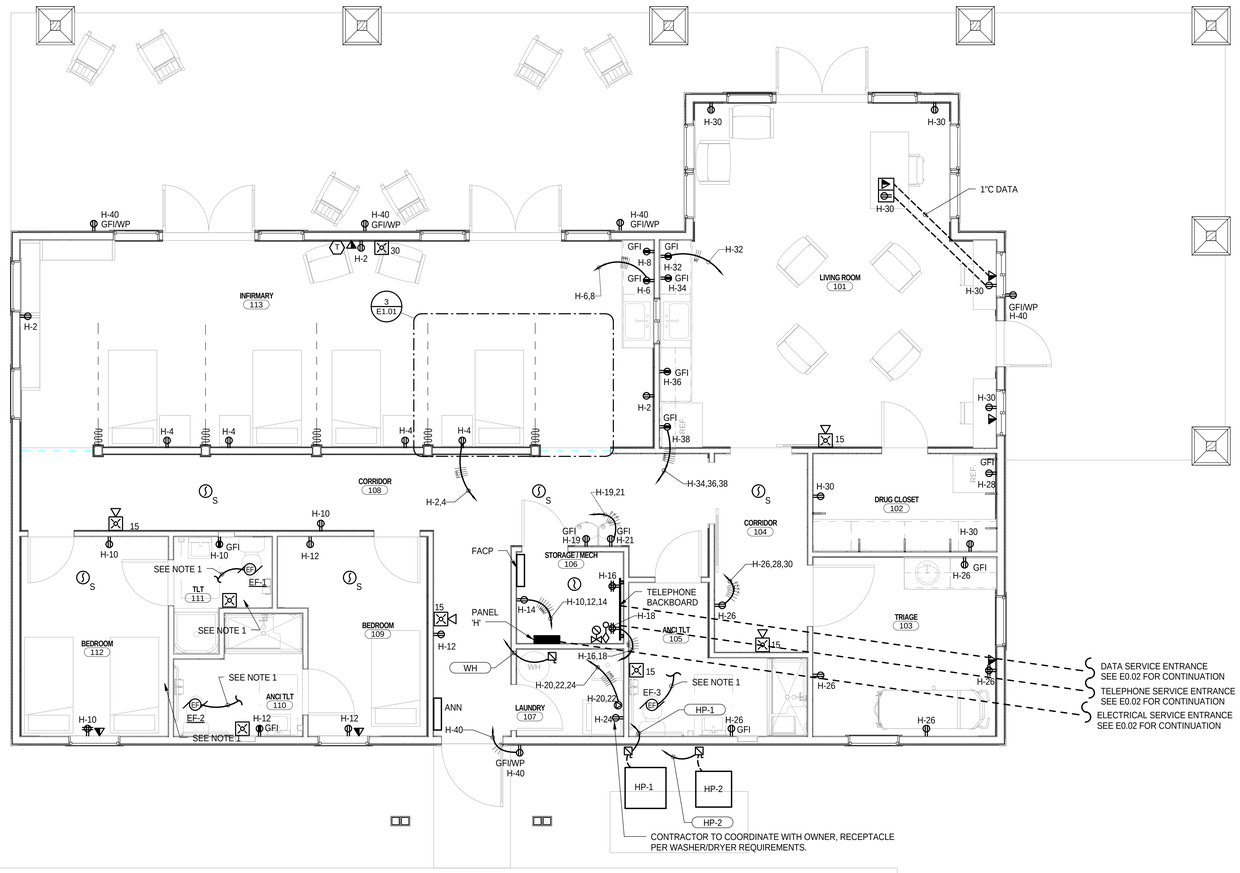
EQUIPMENT SCHEDULE MEZZANINE					
EQUIPMENT TAG	ELECTRICAL DATA	PANEL	CIRCUIT NUMBER	WIRE/CONDUIT	DISCONNECT
AHU-1	208 V/2-9568 VA	H	27,29	1 #8, 1 #10G; 3/4" C	60/FU/2P
AHU-2	208 V/2-6656 VA	H	31,33	1 #8, 1 #10G; 3/4" C	60/FU/2P
HP-1	208 V/2-6032 VA	H	35,37	1 #8, 1 #10G; 3/4" C	60/FU/2P/ NEMA 3R
HP-2	208 V/2-3557 VA	H	39,41	1 #10, 1 #10G; 3/4" C	30/FU/2P/ NEMA 3R
WH	208 V/2-6000 VA	H	13,15	1 #8, 1 #10G; 3/4" C	60/NF/2P

NOTES:

1. FANS TO BE SWITCHED WITH LIGHTS.
2. EXTERIOR LIGHTING CIRCUIT SHALL BE ROUTED THROUGH PHOTOCELL.
3. SEE ARCHITECTURAL RCP FOR EXACT FIXTURE LOCATIONS AND LAYOUT.



3 E1.01 MECHANICAL EQUIPMENT MEZZANINE PLAN
1/4" = 1'-0"



1 E1.01 ELECTRICAL POWER PLAN
1/4" = 1'-0"

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PROJECT ARCHITECT: KNC
DRAWN BY: TMP/LJK

SHEET TITLE:

ELECTRICAL LIGHTING AND POWER PLANS

SHEET NO. E1.01

PROJ. NO. 015292.00

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