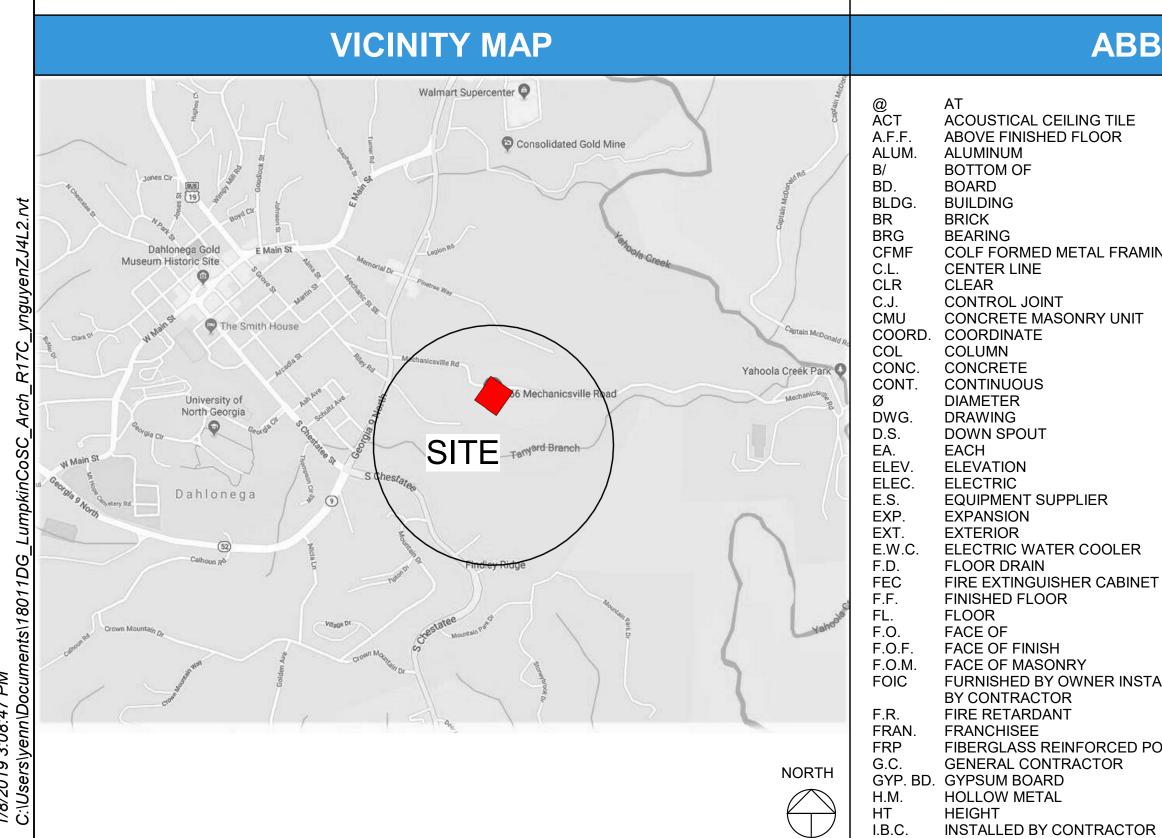




	PROJECT DIRE	CTORY	DRAV	WING INDEX		
CLIENT:	LUMPKIN COUNTY SENIOR CENTER	LINDA KIRKPATRICK	SHEET NO	. SHEET NAME	SHEET N	IO. SHEET NAME
OLILIVI.	266 MECHANICSVILLE RD. DAHLONEGA, GA 30533	TEL: 706-864-2358 linda.kirkpatrick@lumpkincounty.gov	01 COVER CS-1.01	COVER SHEET	S-2.02 S-3.01	ROOF FRAMING PLAN FOUNDATION DETAILS
ARCHITECT:	JERICHO DESIGN GROUP 3333 PRESTON RIDGE ROAD SUITE 380 ALPHARETTA, GA 30005	JENNIFER FRANKLIN TEL: 770-597-4944 jfranklin@jericho-design.com	02 LIFE SAFETY LS-1.01 03 GENERAL G-1.01	LIFE SAFETY PHASING & ADA REGULATORY & PARTITIONS	S-4.01 S-5.01 S-6.01 S-6.02	MASONRY DETAILS STEEL FRAMING DETAILS WOOD FRAMING DETAILS TRUSS PROFILES
CIVIL:	CORNERSTONE SITE CONSULTANTS 2985 GORDY PARKWAY SUITE 119 MARIETTA, GA 30066	ANDREW HALLORAN TEL: 770-490-9182 andrew@cornerstonesite.com	04 CIVIL C-000 C-001 C-030 C-100	SITE COVER SHEET SURVEY SITE DEMOLITION PLAN SITE PLAN	07 DEMOLITI D-1.01 07a ARCHITE A-1.01 A-2.01	DEMOLITION PLAN
STRUCTURAL:	SHEAR STRUCTURAL 931 MONROE DR. SUITE A102-491 ATLANTA, GA 30308	KAREN JENKINS TEL: 404-735-3712 kjenkins@shearstructural.com	C-110 C-130 C-300 C-500	GRADING, DRAINAGE & UTILITY PLAN EROSION AND SEDIMENT CONTROL PLAN STORM PROFILES CONSTRUCTION DETAILS	A-4.01 A-5.01 A-6.01 A-6.51	EXTERIOR ELEVATIONS BUILDING SECTIONS & SECTION DETAILS FINISH PLAN & SCHEDULES INTERIOR ELEVATIONS & DETAILS
MECHANICAL ELECTRICAL & PLUMBING:	PROFICIENT ENGINEERING 6991 PEACHTREE INDUSTRIAL BLVD BUILDING 700 PEACHTREE CORNERS, GA 30092	HEYOUNG LEE TEL: 404-330-9798 EXT.102 hlee@peiatl.com	C-510 C-511 C-512 C-513 C-520	ESPC DETAILS ESPC DETAILS ESPC DETAILS ESPC DETAILS GA D.O.T. DETAILS	08 PLUMBING P-0.01 P-1.01 P-1.02 09 MECHANIG	GENERAL BASEMENT PLAN FLOOR PLAN
			C-520 C-521 05 STRUCTURA S-0.01 S-0.02 S-1.01 S-2.01	GA D.O.T. DETAILS	M-0.01 M-1.01 10 ELECTRIC E-0.01 E-0.02 E-1.01	GENERAL FLOOR PLAN

HEIGHT



ACOUSTICAL CEILING TILE LANDLORD MANUFACTURER MATERIAL **BOTTOM OF** MAXIMUM MECHANICAL BUILDING MINIMUM MTL. METAL BEARING NON-COMBUSTIBLE NOT IN CONTRACT CENTER LINE N.T.E. NOT TO EXCEED CLEAR N.T.S. NOT TO SCALE **CONTROL JOINT** OVERFLOW DRAIN CONCRETE MASONRY UNIT OPPOSITE COORD. COORDINATE PLASTIC LAMINATE COLUMN PLYWD. PLYWOOD CONCRETE CONTINUOUS PRESSURE TREATED O.C. ON CENTER R.D. **ROOF DRAIN** S.B.O. SUPPLIED BY OWNER EACH SCHED. SCHEDULE **ELEVATION** SIM. SIMILAR **ELECTRIC** STL. STEEL EQUIPMENT SUPPLIER STRUCT. STRUCTURAL **EXPANSION** TOP OF **EXTERIOR** TONGUE AND GROOVE E.W.C. ELECTRIC WATER COOLER TYP. TYPICAL FLOOR DRAIN U.N.O. UNLESS NOTED OTHERWISE VERT. VERTICAL FIRE EXTINGUISHER CABINET FINISHED FLOOR VINYL WALL COVERING FLOOR FACE OF FACE OF FINISH WD. WOOD W.W.F. WELDED WIRE FABRIC FACE OF MASONRY FURNISHED BY OWNER INSTALLED BY CONTRACTOR FIRE RETARDANT FRANCHISEE FIBERGLASS REINFORCED POLYESTER GENERAL CONTRACTOR

ABBREVIATIONS

BATT INSULATION **SECTION MARK** EARTH 'SIM' - SIMILAR 'OH' - OPPOSITE HAND GRANULAR **ENLARGED** PLAN / DETAIL CONCRETE DOOR REFERENCE NUMBER SEE SHEET A-600 **ROOM NAME & NUMBER** STEEL, IRON COLUMN AND GRID NUMBER MORTAR NET SEE SHEET A-601 SOLID GROUT WOOD DIMENSIONAL

SHEATHING

RIGID INSULATION

PLASTER, GYPSUM WALLBOARD

SYMBOLS

AND LOCAL BUILDING CODE REQUIREMENTS PER INDUSTRY STANDARDS. ALL REQUIRED PERMITS AND FEES ASSOCIATED ARE TO BE THE RESPONSIBILITY OF THE CONTRACTOR NECESSARY FOR START AND COMPLETION OF THE PROJECT. COPIES OF INSPECTIONS AND PERMITS SHALL BE FURNISHED TO OWNER AT REQUEST AND/OR AT PROJECT CLOSEOUT. 6. CONTRACTOR TO TAKE PRECAUTIONS IN PROTECTING THE WORK DURING CONSTRUCTION. ANY DAMAGE TO BE RESTORED TO ORIGINAL CONSTRUCTION BY THE CONTRACTOR. PATCH AND REPAIR ALL ITEMS DAMAGED OR ALTERED DURING CONSTRUCTION BY THE CONTRACTOR. ALL PATCHES SHALL BLEND WITH ADJACENT MATERIAL, COLOR, FINISH, AND TEXTURE. ALL EXISTING WORK FURNISHINGS, EQUIPMENT OR MATERIAL TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. 7. REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED IN WRITING TO THE ARCHITECT FOR CONSIDERATION ONLY IF IMPACT TO SCHEDULE, COST CHANGE OR QUALITY OF PRODUCT. ACCEPTANCE BY ARCHITECT DOES NOT IDENTIFY PRODUCT TO BE OF BETTER QUALITY THAN SPECIFIED PRODUCT. 8. SEAL ALL EXTERIOR PENETRATIONS AND VOIDS ON EXTERIOR BUILDING

1. THESE DRAWINGS ARE THE PROPERTY OF JERICHO DESIGN GROUP, LLC

AND SHALL NOT BE REPRODUCED OR COPIED (PHYSICALLY AND/OR DIGITALLY)

IN PART OF WHOLE. THEY ARE TO BE USED FOR THIS PROJECT ONLY AND ARE

MUTUALLY EXPLANATORY. THEY SHALL BE ACCEPTED/USED AS A WHOLE; NOT

SEPARATELY. SHOULD ANY ITEMS BE OMITTED FROM THE DRAWINGS AND BE

HEREIN SPECIFIED, OR VICE VERSA, IT SHALL BE EXECUTED THE SAME AS IF

LIMITED TO ERRORS, OMISSIONS, INCONSISTENCIES, DISCREPANCIES, AND

5. WORK PERFORMED SHALL BE IN ACCORDANCE TO ALL FEDERAL, STATE

CONFLICTS WITH THE DRAWINGS/SPECIFICATIONS OR AS RELATED TO FIELD

3. THE CONTRACTOR IS TO NOTIFY ARCHITECT OF ANY DISCREPANCIES

AFTER FULL REVIEW OF CONTRACT DOCUMENTS TO INCLUDE BUT NOT

CONDITIONS. CONTRACTOR TO CONTACT ARCHITECT IMMEDIATELY TO

2. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO AGREE AND BE

SHOWN AND COMBINED IN BOTH. IT IS THE RESPONSIBILITY OF THE

CONTRACTOR TO SUPPLY ENTIRE SET TO EACH SUBCONTRACTOR.

4. DO NOT SCALE THE DRAWINGS UNDER ANY CONDITION.

NOT TO BE USED ON ANY OTHER PROJECT.

DISCUSS A RESOLUTION.

9. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN FIELD CONDTITION/S AND CONTRACT DOCUMENTS PRIOR TO ANY CONSTRUCTION ACTIVITY IN AREA OF CONCERN.

10. THE LOCATION OF THE EXISTING UTILITIES & STRUCTURES SHOWN HEREIN ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE & ACTUAL LOCATIONS OF ALL, SHOWN OR NOT SHOWN. ANY DAMAGES RESULTING BY CONTRACTORS' ACTIVITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. 11. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING & SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD.

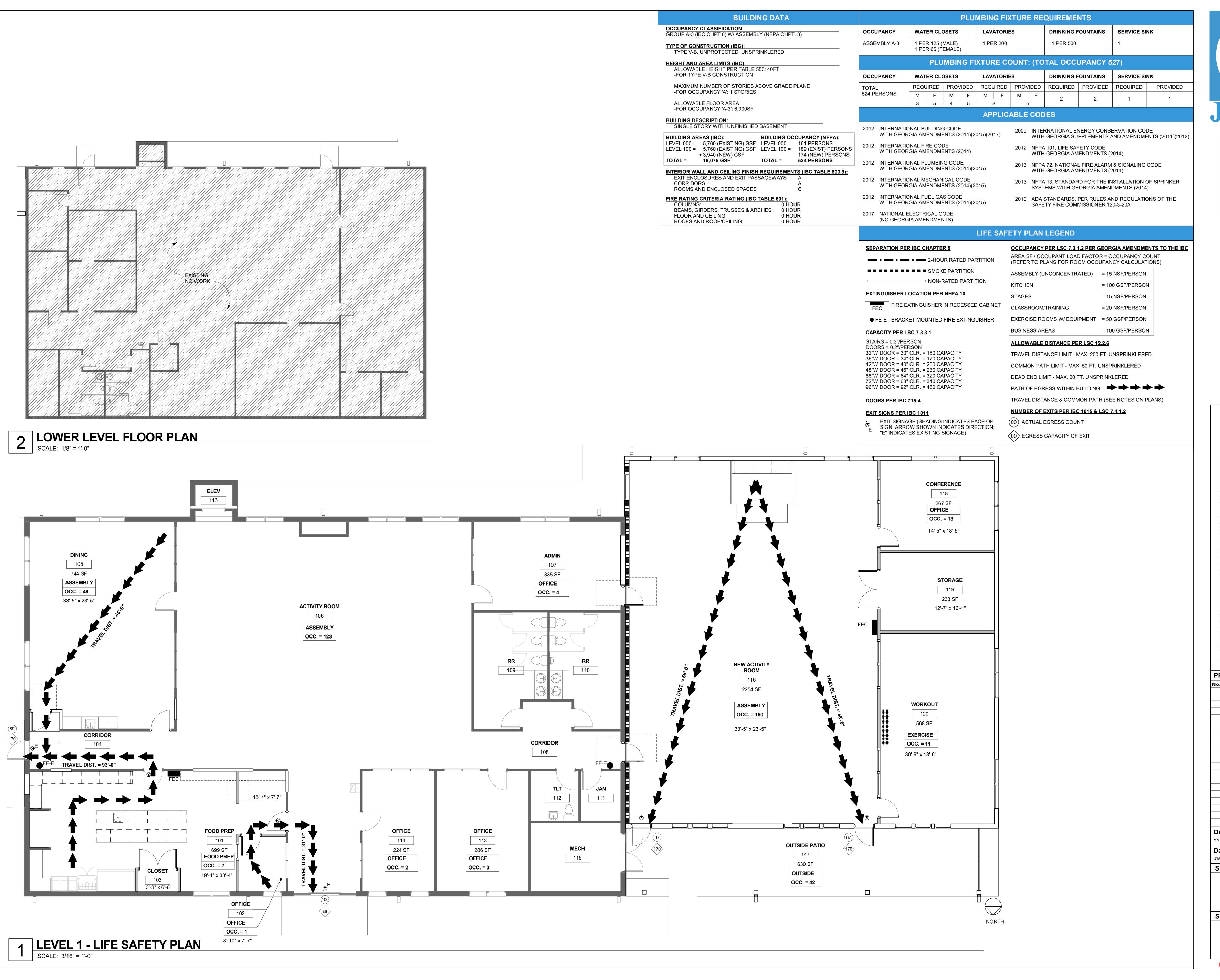
12. PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS INCLUDING SCREWS, NAILS & OTHER FASTENING DEVICES TO AVOID GALVANIC 13. PROVIDE EXPANSION AND CONTROL JOINTS IN ALL WORK AS PER PRODUCT MANUFACTURER'S STANDARDS, OR SPECIFICATIONS, UNLESS

GENERAL NOTES

NOTED OTHERWISE. 14. ALL DIMENSIONS ARE WITNESSED TO THE OUSIDE FACE OF MASONRY, FACE OF STUD, CENTER OF COLUMN, TOP OF STRUCTURAL CONCERETE SLAB OR ROUGH WINDOW OPENING UNLESS NOTED OTHERWISE. 15. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON INDIVIDUAL SHEETS SHALL BE APPLIED TO RELATED DRAWINGS AND DETAILS. 16. INTERIOR PARTITION MOVEMENT CONTROL - VERTICAL CONTROL JOINTS

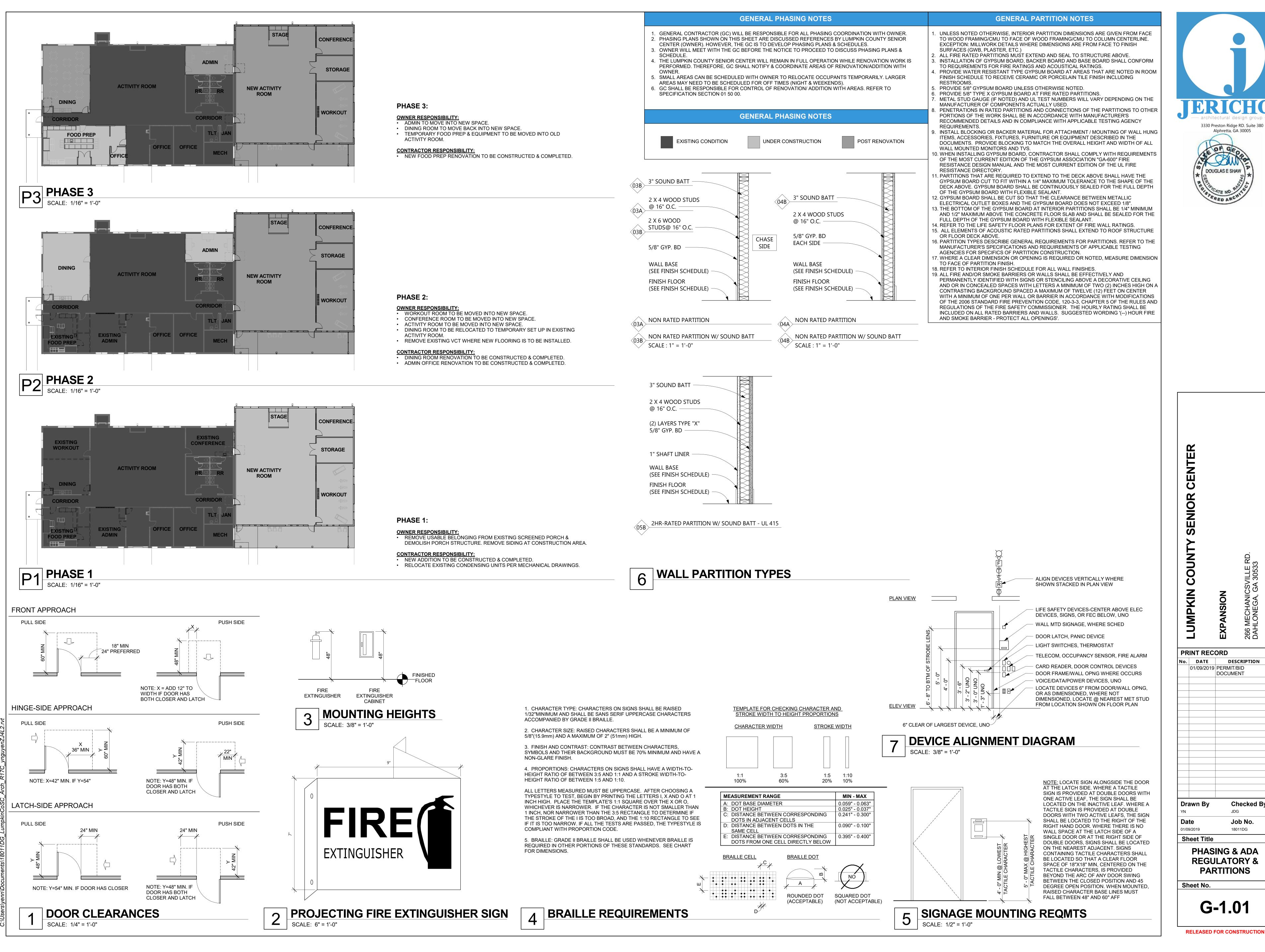
FOR ANY WALL LENGTH ARE TO OCCUR AT NOT MORE THAN 30'-0" O.C. IN THE HORIZONTAL DIRECTION, UNLESS NOTED OTHERWISE. 17. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PARTS OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION.

PRINT RECORD **DESCRIPTION** 01/09/2019 PERMIT/BID DOCUMENT Checked By Drawn By Job No. Sheet Title **COVER SHEET** Sheet No.





PRINT RECORD DESCRIPTION No. DATE 01/09/2019 PERMIT/BID DOCUMENT **Checked By Drawn By** Job No. Sheet Title **LIFE SAFETY** Sheet No. LS-1.01 RELEASED FOR CONSTRUCTION



- architectural design group -3330 Preston Ridge RD. Suite 380 Alphretta, GA 30005

DOUGLAS E SHAW

DESCRIPTION

Checked By

Job No.

18011DG

DOCUMENT

REGULATORY & PARTITIONS

SEE LEGEND ON EXISTING CONDITIONS PLAN FOR FURTHER DETAILS.

SANITARY SEWER LABEL

SEE PROFILE SHEET FOR DETAILS

ABBREVIATIONS

FT -FOOT/FEET
G -GAS
GM -GAS METER
GV -GAS VALVE
HDPE -HIGH DENSITY
POLYETHYLENE
HGL -HYDRAULIC GRADE LINE
HP -HIGH POINT

IN -INCH ID -INSIDE DIAMETER

INV —INVERT

JT —JOINT

LF —LINEAR FOOT/FEET

MISC -MISCELLANEOUS MON -MONUMENT

MSL -MEAN SEA LEVEL NTS -NOT TO SCALE NO. -NUMBER

MH -MANHOLE

MAX -MAXIMUM

MIN -MINIMUM

LOD -LIMITS OF DISTURBANCE

OD -OUTSIDE DIAMETER PL -PROPERTY LINE

PVC-POLYVINYL CHROLIDE R-RADIUS

RCP-REINFORCED CONCRETE

REV-REVISED OR REVISION ROW-RIGHT OF WAY

SD-STORM DRAIN

SW-SIDEWALK T-TELEPHONE

FENCING

TC-TOP OF CURB
U-UNDERGROUND
W-WATER

WM-WATER METER

WV-WATER VALVE

SS-SANITARY SEWER

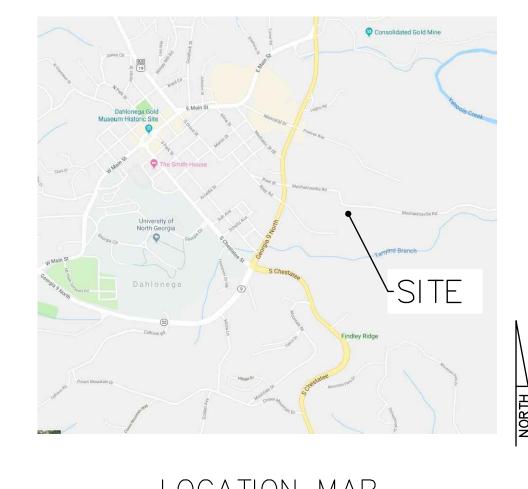
TPF-TREE PROTECTION

PROP-PROPOSED PVMT-PAVEMENT

SITE CLEARING & SITE DEMOLITION NOTES

CONDITION OR BETTER IF DAMAGED AT NO ADDITIONAL COST TO THE OWNER.

- . ALL NECESSARY PERMITS FOR CLEARING & DEMOLITION SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BEGINNING WORK.
- 2. CONTRACTOR SHALL CLEARLY MARK AND MAINTAIN PROPERTY CORNER MONUMENTATION AND BENCHMARKS AND WILL BE RESPONSIBLE FOR THE COST OF REPLACING THEM IF DISTURBED OR DESTROYED.
- 3. THE CONTRACTOR SHALL HAVE THE LIMITS OF CLEARING AND DEMOLITION AND ALL BUFFERS STAKED WITH FLAGGING STRUNG BETWEEN ANGLE POINTS TO ENSURE THE PROPER LOCATION OF THE TREE SAVE FENCE AND PROPOSED IMPROVEMENTS PRIOR TO CLEARING AND DEMOLITION.
- -. PRIOR TO CLEARING AND DEMOLITION, THE CONTRACTOR SHALL OBTAIN WRITTEN VERIFCATION FROM ALL UTILITY COMPANIES THAT ALL UTILITIES HAVE BEEN REMOVED. IF UTILITES HAVE NOT BEEN REMOVED BUT HAVE BEEN ABANDONED, THE VERIFICATION LETTER SHALL STATE THAT THEIR FACILITIES LEFT ONSITE HAVE BEEN ISOLATED FROM THEIR SOURCE AND MAY BE REMOVED BY THE CONTRACTOR. IF UTILITIES ARE TO REMAIN AND HAVE BEEN LEFT ACTIVE, THE CONTRACTOR SHALL CAREFULLY PROTECT THEM AND IS RESPONSIBLE FOR RESTORING THEM TO THEIR PREVIOUS
- 5. CONTRACTOR SHALL PROTECT ALL ADJACENT LANDS FROM DAMAGE DURING CLEARING & DEMOLITION WORK. ANY OFF—SITE AREAS DISTURBED SHALL BE RETURNED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 5. NO CLEARING OR DEMOLITION MATERIALS SHALL BE DISPOSED OF ON-SITE ALL DEBRIS SHALL BE HAULED OFF-SITE TO DISPOSAL AREAS APPROVED BY THE STATE OF GEORGIA FOR THE HANDLING OF CLEARING & DEMOLITION MATERIALS.
- '. ALL VEGETATION (UNLESS OTHERWISE NOTED), ROOT SYSTEMS, TOPSOIL, REFUSE, OTHER DELETERIOUS MATERIAL, EXISTING PAVEMENTS, CURBS, ORGANICS AND UNSUITABLE BEARING SOILS SHALL BE STRIPPED FROM THE SURFACE WITHIN THE CONSTRUCTION LIMITS AND DISPOSED OF OFFSITE TO A DISPOSAL AREA APPROVED BY THE STATE OF GEORGIA FOR THE HANDLING OF CLEARING & DEMOLITION MATERIALS.
- 8. CLEAN TOP SOIL MAY BE STOCKPILED IN AN AREA APPROVED BY THE ARCHITECT AND REUSED LATER IN THE TOP 4" OF LANDSCAPED AREAS ONLY. EXCESS TOPSOIL SHALL BE DISPOSED OF OFFSITE.
- 9. ALL STRUCTURES NOT IDENTIFIED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION. ANY STRUCTURES THAT ARE TO REMAIN THAT ARE DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 10. CONSTRUCTION ENTRANCE, SILT FENCE AND ANY OTHER REQUIRED EROSION CONTROL DEVICE SHALL BE IN PLACE PRIOR TO CLEARING & DEMOLITION OPERATIONS.
- 11. DISCONNECT AND SEAL OFF ABANDONED UTILITIES AND UTILITIES TO BE REMOVED PRIOR TO START OF DEMOLITION. UTILITIES SHALL BE DISCONNECTED BELOW EXISTING GRADE OR OUTSIDE OF CONTRACT LIMITS BY THE APPLICABLE UTILITY OWNER. ALL COSTS FOR THIS WORK SHALL BE BORNE BY THE CONTRACTOR.
- 12. ALL STRUCTURES TO BE DEMOLISHED SHALL BE COMPLETELY REMOVED ABOVE AND BELOW GRADE. ABANDONED SERVICE LINES TO THE STRUCTURES SHALL ALSO BE REMOVED.
- 13. CONTRACTOR TO PROVIDE ALL NECESSARY BARRICADES. SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL MEASURES AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC THROUGHOUT CLEARING, DEMOLITION AND CONSTRUCTION IN COMPLIANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" CURRENT EDITION, THE GEORGIA D.O.T. SPECIFICATIONS SECTION 150 AND ANY RULES AND REGULATIONS OF THE LOCAL AUTHORITY HAVING JURISDICTION OVER THIS PROJECT.
- 14. THE EXISTING TREES SHOWN ON THESE PLANS MAY ONLY BE THE MINIMAL AMOUNT SURVEYED AS REQUIRED FOR PERMITTING. THE SITE MAY HAVE ADDITIONAL TREES BEYOND THAT WHICH IS SHOWN. THE CONTRACTOR SHALL VISIT THE SITE BEFORE MAKING HIS BID TO INVESTIGATE THE AMOUNT OF EXISTING TREES THAT WILL NEED TO BE REMOVED WITHIN THE LIMITS OF CLEARING.



LOCATION MAP NOT TO SCALE

REFERENCES

BOUNDARY, TOPOGRAPHIC, TREE AND UTILITY SURVEY INFORMATION BASED ON A SURVEY FOR LUMPKIN COUNTY SENIOR CENTER EXPANSION, DATED 09-10-2018 AND PREPARED BY DAVIS ENGINEERING & SURVEYING

2. THE FLOOD INSURANCE RATE MAP INDICATES AS PER OFFICIAL F.I.A. MAPS 13223 C 0137C, DATED SEPTEMBER 29, 2006 THE SITE IS IN OUTSIDE OF THE 100 YEAR FLOOD PLAIN.

ALL CONSTRUCTION TO BE IN CONFORMANCE WITH APPLICABLE CITY OF DAHLONEGA AND LUMPKIN COUNTY STANDARDS & SPECIFICATIONS

PROJECT DATA

OWNER / DEVELOPER: LUMPKIN COUNTY

99 COURTHOUSE HILL, SUITE H DAHLONEGA, GA 30533

ARCHITECT: JERICHO DESIGN GROUP 3330 PRESTON RIDGE RD STE. 380

ALPHARETTA, GEORGIA 30005 CIVIL SITE ENGINEER:

CORNERSTONE SITE

PH: 770-490-9182

CONSULTANTS, LLC 2985 GORDY PKWY, SUITE 119 MARIETTA, GA 30066 ANDREW M. HALLORAN, P.E.,

SITE ADDRESS: 266 MECHANICSVILLE ROAD DAHLONEGA, GA 30533 LL 997&998, 12TH DISTRICT

SITE AREA: ____ ACRES

DISTURBED SITE AREA: 0.4 ACRES LUMPKIN COUNTY SENIOR CENTER EXISTING SITE USE:

PROPOSED PROJECT: BUILDING ADDITION

SITE ZONING: NONE

IMPERVIOUS AREA:

4,500 SF INCREASE (SINCE < 5,000 SF, EXEMPT FROM STORMWATER MANAGEMENT)

SEE DETAIL SHEETS FOR CONSTRUCTION DETAILS

EXISTING INFORMATION MAY NOT BE SHOWN ON ALL DRAWINGS IN ORDER TO BETTER ILLUSTRATE THE PROPOSED CONSTRUCTION INFORMATION. PLEASE REFER TO THE EXISTING CONDITIONS PLANS AS NECESSARY WHEN REVIEWING THE DRAWINGS.

www.Georgia811.com

5 BUSINESS DAYS PRIOR TO CONSTRUCTION CONTACT GEORGIA 811 UTILITY PROTECTION CENTER

UTILITY DISCLAIMER

ALL KNOWN UTILITIES HAVE BEEN SHOWN BASED ON THE BEST INFORMATION AVAILABLE TO THE OWNER. ALL KNOWN UTILITIES HAVE BEEN SHOWN SCHEMATICALLY ON THE PLANS AND MAY NOT BE SHOWN ACCURATELY HORIZONTALLY OR VERTICALLY. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH UTILITY COMPANIES TO HAVE THEM RELOCATED EITHER VERTICALLY OR HORIZONTALLY WHEN NECESSARY FOR PROPOSED CONSTRUCTION OR ADAPTED FOR PROPOSED CONNECTIONS. CONTRACTOR SHALL CALL THE UTILITIES PROTECTION CENTER (UPC) AT LEAST 72 HOURS (THREE BUSINESS DAYS) PRIOR TO CONSTRUCTION.

SEE SHEET C-000 FOR GENERAL NOTES AND DRAWING LEGEND

CIVIL SHEET INDEX

PAGE SHEET NUMBER NUMBER SHEET TITLE

C - 001

C-110 GRADING, DRAINAGE & UTILITY PLAN

C-300 STORM SEWER PROFILE

C-511 ESPC DETAILS C-512 ESPC DETAILS

C-520 GA D.O.T. DETAILS

C-521 GA D.O.T. DETAILS





CORNERSTONE SITE CONSULTANTS

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AMH Date Job No. 10/29/2018 17001DG

Sheet Title

SITE COVER SHEET

Sheet No. **C-000**

C-000 CIVIL COVER SHEET & GENERAL NOTES

C-030 SITE DEMOLITION PLAN

C-100 SITE PLAN

C-130 EROSION & SEDIMENT CONTROL PLAN

C-500 CONSTRUCTION DETAILS C-510 ESPC DETAILS

C-513 ESPC DETAILS

ESMT -LASEMENT
EP -EDGE OF PAVEMENT
ELEV -ELEVATION
ESPC -EROSION, SEDIMENT &
POLLUTION CONTROL
EXIST -EXISTING
FC -FACE OF CURB
FH -FIRE HYDRANT

ESMT

ABAND -ABANDON

APPROX - APPROXIMATE

PPROX - APPROXIMATE
BC -BACK OF CURB
BLDG -BUILDING
BMP -BEST MANAGEMENT PRACTICES
BRG -BEARING
CB -CATCH BASIN
CC -CENTER TO CENTER
C & G -CURB & GUTTER
CONC -CONCRETE

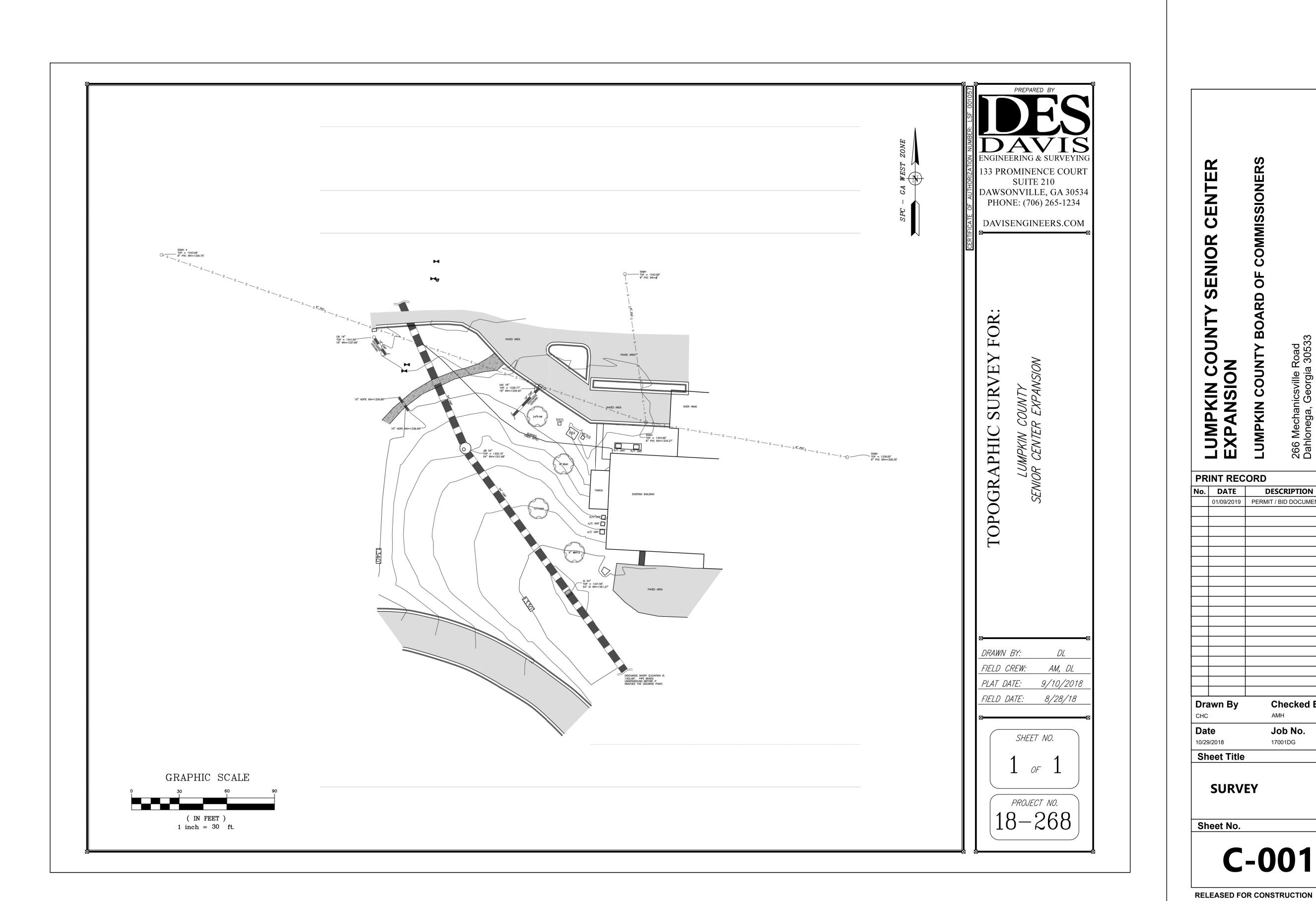
-CONCRETE -CORRUGATED METAL PIPE

FFE -FINISHED FLOOR ELEVATION

DI -DROP INLET
DIP -DUCTILE IRON PIPE
DIA -DIAMETER

-EASEMENT





CENTER SENIOR LUMPKIN COUNTY & EXPANSION

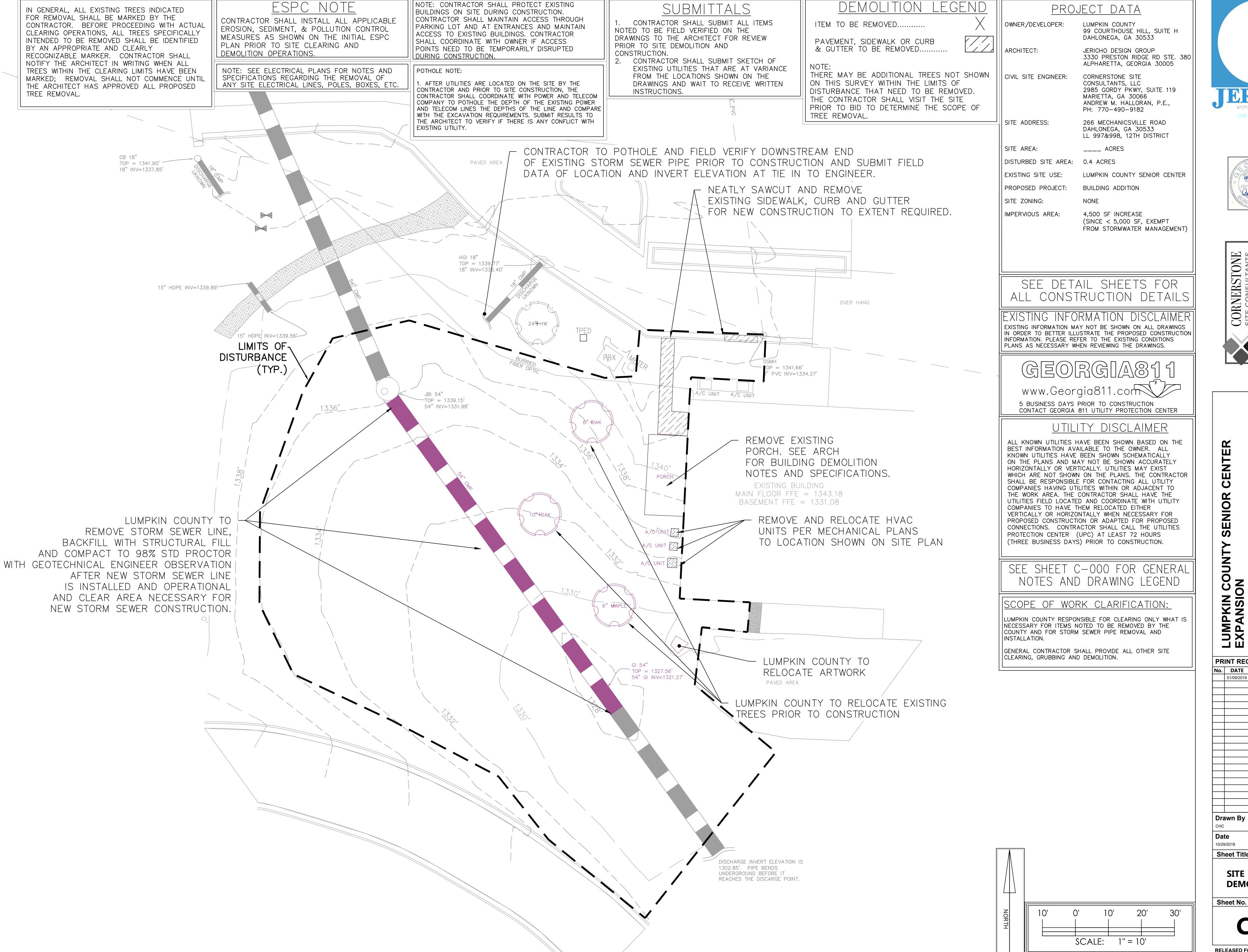
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Date 10/29/2018 Sheet Title

SURVEY

Sheet No. C-001







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C SENIOR LUMPKIN COUNEXPANSION

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Job No. 10/29/2018

Sheet Title

SITE **DEMOLITION PLAN**

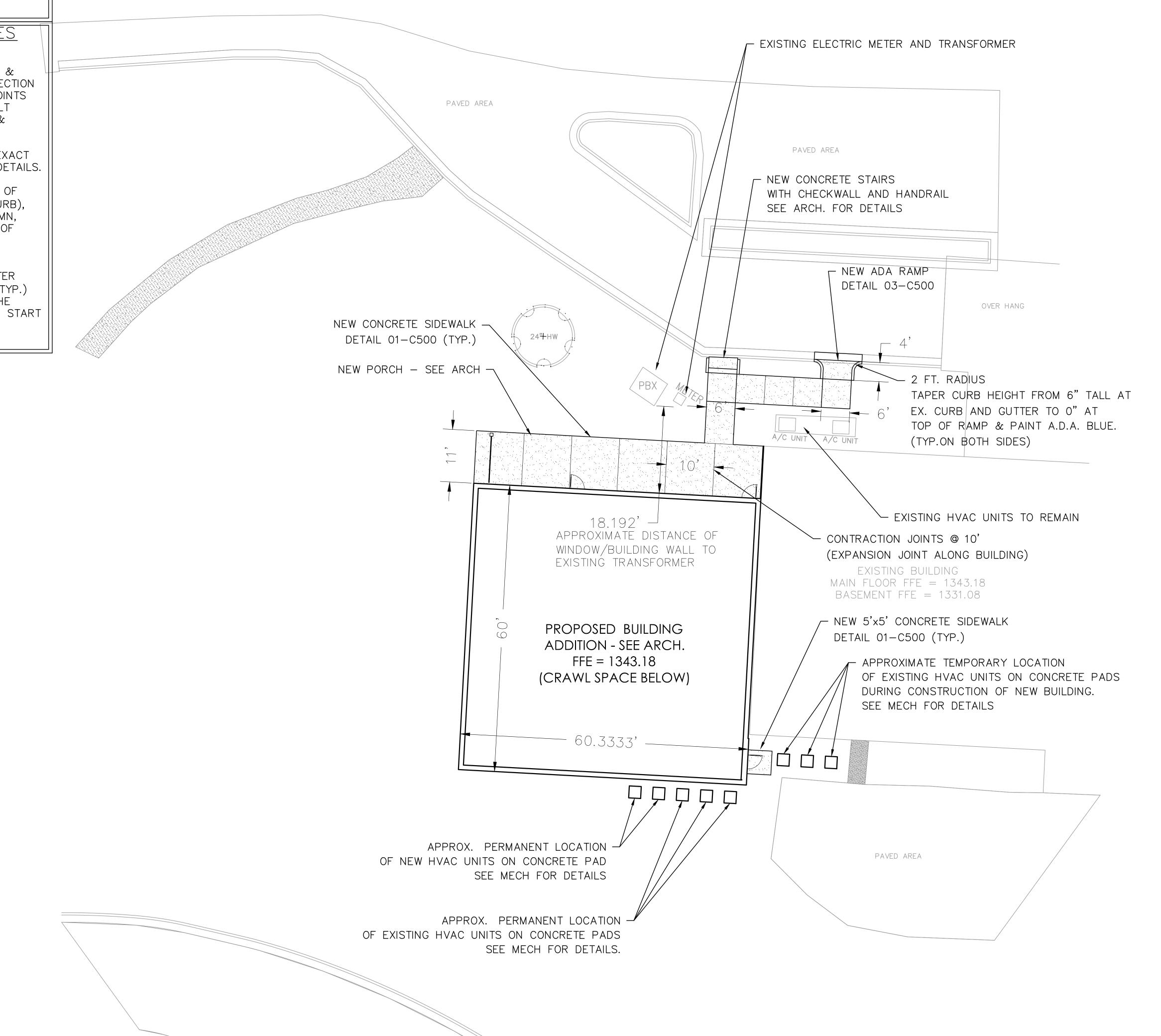
C-030

PAVEMENT LEGEND

CONCRETE SIDEWALK

SITE PLAN GENERAL NOTES

- CONTRACTOR SHALL MATCH ALL NEW PAVEMENT, SIDEWALK, AND/OR CURB & GUTTER WITH EXISTING AT ALL CONNECTION POINTS. PROIVDE SEALANT AT ALL JOINTS BETWEEN EX. AND PROPOSED ASPHALT PAVEMENTS TO PROVIDE A SMOOTH & SEAMLESS TRANSITION.
- 2. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING & COLUMN DIMENSIONS & DETAILS.
- ALL DIMENSIONS ARE TO THE FACE OF CURB, EDGE OF PAVEMENT (IF NO CURB), FACE OF BUILDING, CENTER OF COLUMN, CENTER OF STRUCTURE, CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.
- 4. PATCH AND REPAIR ALL EXISTING CONCRETE SIDEWALK, CURB & GUTTER DAMAGED DURING CONSTRUCTION. (TYP.) CONTRACTOR SHOULD DOCUMENT THE EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION AND SUBMIT DOCUMENTATION TO ARCHITECT



PROJECT DATA

OWNER/DEVELOPER:

LUMPKIN COUNTY 99 COURTHOUSE HILL, SUITE H

DAHLONEGA, GA 30533

ARCHITECT:

JERICHO DESIGN GROUP 3330 PRESTON RIDGE RD STE. 380

CIVIL SITE ENGINEER:

ALPHARETTA, GEORGIA 30005 CORNERSTONE SITE

CONSULTANTS, LLC

BUILDING ADDITION

2985 GORDY PKWY, SUITE 119 MARIETTA, GA 30066 ANDREW M. HALLORAN, P.E., PH: 770-490-9182

SITE ADDRESS: 266 MECHANICSVILLE ROAD DAHLONEGA, GA 30533

LL 997&998, 12TH DISTRICT

SITE AREA: ____ ACRES

DISTURBED SITE AREA: 0.4 ACRES

EXISTING SITE USE: LUMPKIN COUNTY SENIOR CENTER

SITE ZONING: NONE

PROPOSED PROJECT:

IMPERVIOUS AREA:

4,500 SF INCREASE (SINCE < 5,000 SF, EXEMPT

FROM STORMWATER MANAGEMENT)

SEE DETAIL SHEETS FOR ALL CONSTRUCTION DETAILS

XISTING INFORMATION DISCLAIMER IN ORDER TO BETTER ILLUSTRATE THE PROPOSED CONSTRUCTION INFORMATION. PLEASE REFER TO THE EXISTING CONDITIONS PLANS AS NECESSARY WHEN REVIEWING THE DRAWINGS.

GEORGIA811

www.Georgia811.com 5 BUSINESS DAYS PRIOR TO CONSTRUCTION

CONTACT GEORGIA 811 UTILITY PROTECTION CENTER

UTILITY DISCLAIMER

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SEE SHEET C-000 FOR GENERAL NOTES AND DRAWING LEGEND

SCOPE OF WORK CLARIFICATION:

GENERAL CONTRACTOR SHALL PROVIDE IMPROVEMENTS SHOWN







CENTER SENIOR LUMPKIN COUNTY EXPANSION

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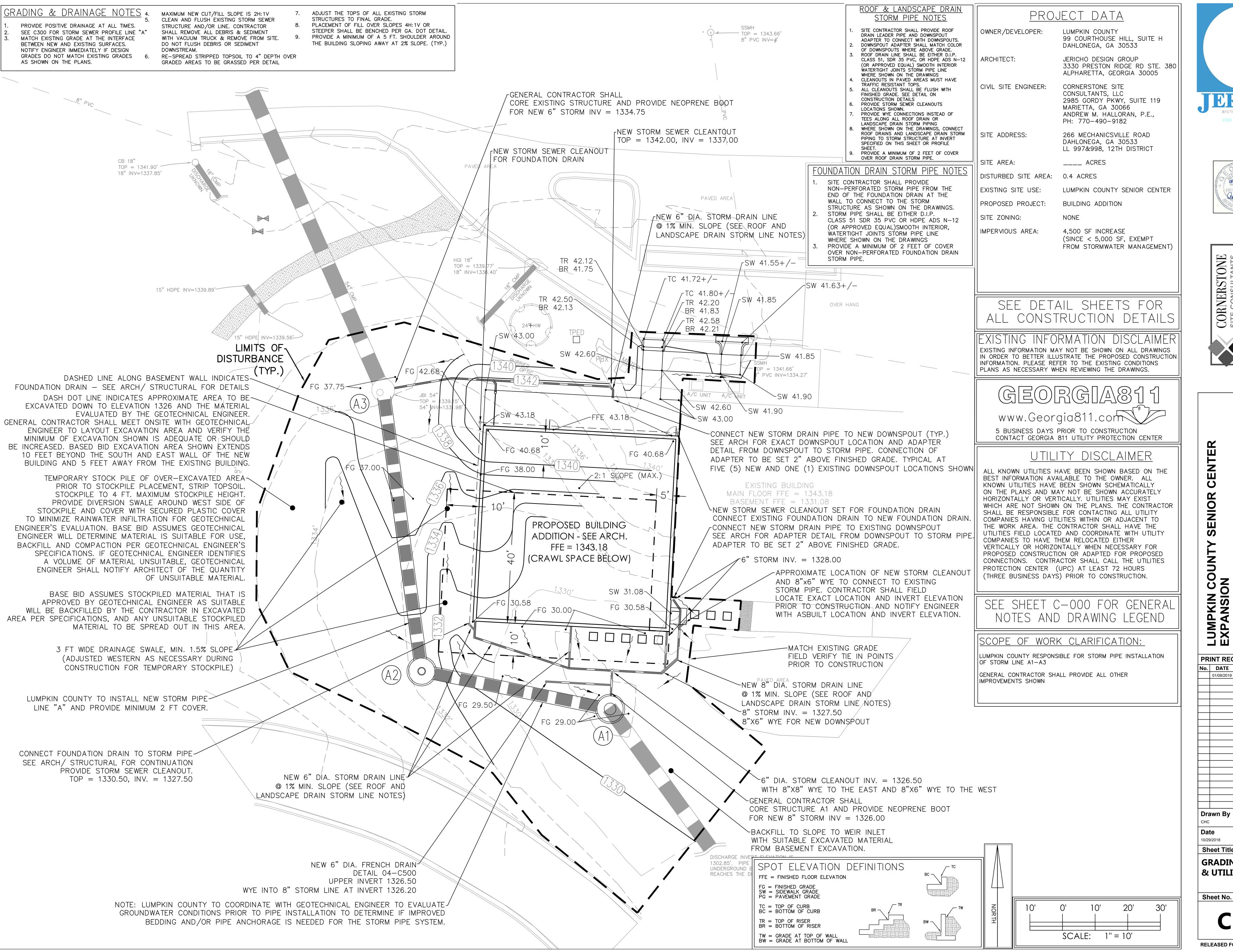
Sheet Title **SITE PLAN**

Sheet No.

C-100

RELEASED FOR CONSTRUCTION

SCALE: 1" = 10'





CORNERSTONE SITE CONSULTANTS

CENTER SENIOR V COUNTY ION

LUMPKIN EXPANSIC **PRINT RECORD**

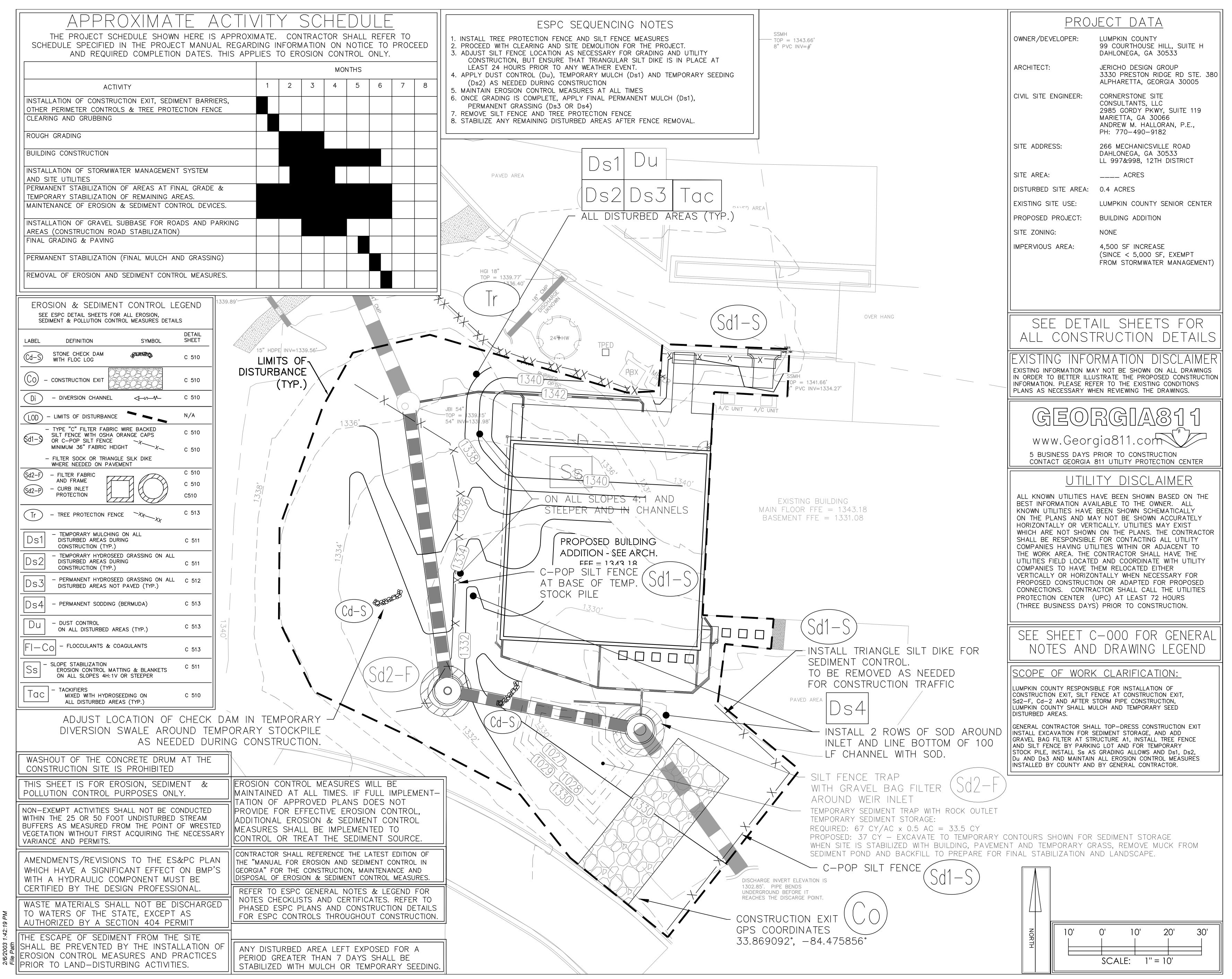
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Drawn By Checked By Date Job No. 10/29/2018

Sheet Title

GRADING, DRAINAGE & UTILITY PLAN

C-110



JERICEO
architectural design group

3330 Preston Ridge RD. Suite 380
Alphretta, GA 30005



CORNERSTONE
SITE CONSULTANTS
ordy Parkway, Suite 119
a, Georgia 30066

2985 Gordy Parkway, Si Marietta, Georgia 30066

SOUNTY SENIOR CENTER N NTY BOARD OF COMMISSIONERS

LUMPKIN CO LUMPKIN CO

No. DATE DESCRIPTION

01/09/2019 PERMIT / BID DOCUMENTS

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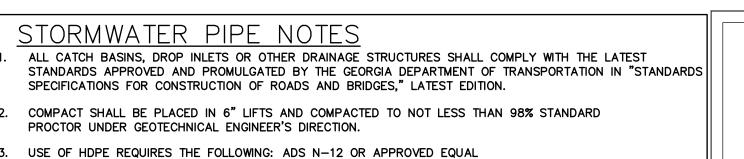
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10/29/2018 17 Sheet Title

Sheet No.

EROSION AND SEDIMENT CONTROL PLAN

C-130



 GRANULAR BACKFILL TO TOP OF THE PIPE WATERTIGHT BELL AND SPIGOT GASKETED JOINTS MUST BE PROVIDED
 36-INCH DIAMETER OR GREATER MUST BE INSPECTED AND CERTIFIED BY A GEOTECHNICAL ENGINEER OR A MANUFACTURERS REPRESENTATIVE DUAL WALL SMOOTHBORE PIPE ONLY.

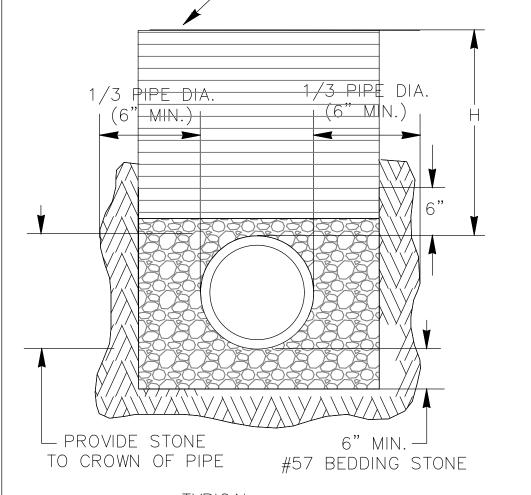
PIPE LENGTHS ARE SCALED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. CONTRACTOR SHALL VERIFY PIPE LENGTH PRIOR TO ORDER PIPE AND PRIOR TO CONSTRUCTION.

. SEE BEDDING DETAILS ON THIS SHEET

6. PLUG ALL PICK HOLES IN PRECAST STRUCTURES WITH NON-SHRINK GROUT

MORTAR INVERTS IN BASE OF STRUCTURES.

VERIFICATION REQUIRED WHERE PROPOSED STORM AND SANITARY SEWERS EITHER CONNECT TO OR CROSS EXISTING UTILITIES, THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION SIZE AND INVERT ELEVATIONS OF ALL EXISTING STORM SEWER, SANITARY SEWER AND OTHER EXISTING UTILITIES PRIOR TO ORDERING PIPE AND PRIOR TO CONSTRUCTION AND SHALL SUBMIT TO THE CIVIL ENGINEER FOR REVIEW TO ENSURE THERE ARE NO CONFLICTS WITH THE PROPOSED DESIGN.



FILL MATERIAL MEETING PROJECT PROJECT SPECIFICATIONS. ETC. COMPACTED AT TO PROJECT SPECIFICATIONS IN MAXIMUM 6" LAYERS.

MINIMUM COVER SHALL BE 12" FROM TOP OF PIPE TO

TOP OF FILL OR SUBGRADE

SPECIFICATIONS AND COMPACTED TO SELECT BACKFILL FREE OF CLUMPS, ROCK,

FINE GRANULAR MATERIAL UNIFORMLY COMPACTED TO PROJECT SPECIFICATIONS.

BOTTOM OF PAVEMENT BASE AT ITS CLOSEST POINT. HDPE STORM PIPE BEDDING DETAIL NOT TO SCALE

PROJECT DATA

OWNER/DEVELOPER: LUMPKIN COUNTY

99 COURTHOUSE HILL, SUITE H DAHLONEGA, GA 30533

ARCHITECT: JERICHO DESIGN GROUP 3330 PRESTON RIDGE RD STE. 380 ALPHARETTA, GEORGIA 30005

CIVIL SITE ENGINEER: CORNERSTONE SITE

CONSULTANTS, LLC 2985 GORDY PKWY, SUITE 119 MARIETTA, GA 30066 ANDREW M. HALLORAN, P.E., PH: 770-490-9182

SITE ADDRESS: 266 MECHANICSVILLE ROAD DAHLONEGA, GA 30533

LL 997&998, 12TH DISTRICT

____ ACRES SITE AREA:

DISTURBED SITE AREA: 0.4 ACRES

EXISTING SITE USE: LUMPKIN COUNTY SENIOR CENTER

PROPOSED PROJECT: BUILDING ADDITION

SITE ZONING: NONE

IMPERVIOUS AREA:

4,500 SF INCREASE (SINCE < 5,000 SF, EXEMPT

FROM STORMWATER MANAGEMENT)

ALL CONSTRUCTION DETAILS

GEORGIA811

CONTACT GEORGIA 811 UTILITY PROTECTION CENTER

ALL KNOWN UTILITIES HAVE BEEN SHOWN BASED ON THE

SEE SHEET C-000 FOR GENERAL

SEE DETAIL SHEETS FOR

XISTING INFORMATION DISCLAIMER EXISTING INFORMATION MAY NOT BE SHOWN ON ALL DRAWINGS IN ORDER TO BETTER ILLUSTRATE THE PROPOSED CONSTRUCTION INFORMATION. PLEASE REFER TO THE EXISTING CONDITIONS PLANS AS NECESSARY WHEN REVIEWING THE DRAWINGS.

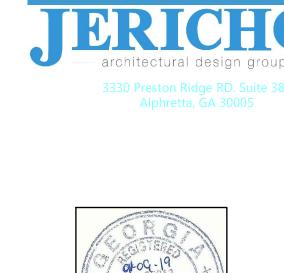
www.Georgia811.com

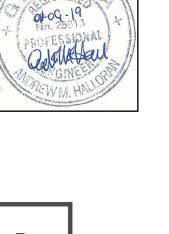
5 BUSINESS DAYS PRIOR TO CONSTRUCTION

UTILITY DISCLAIMER

BEST INFORMATION AVAILABLE TO THE OWNER. ALL KNOWN UTILITIES HAVE BEEN SHOWN SCHEMATICALLY ON THE PLANS AND MAY NOT BE SHOWN ACCURATELY HORIZONTALLY OR VERTICALLY. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES HAVING UTILITIES WITHIN OR ADJACENT TO THE WORK AREA. THE CONTRACTOR SHALL HAVE THE UTILITIES FIELD LOCATED AND COORDINATE WITH UTILITY COMPANIES TO HAVE THEM RELOCATED EITHER VERTICALLY OR HORIZONTALLY WHEN NECESSARY FOR PROPOSED CONSTRUCTION OR ADAPTED FOR PROPOSED CONNECTIONS. CONTRACTOR SHALL CALL THE UTILITIES PROTECTION CENTER (UPC) AT LEAST 72 HOURS (THREE BUSINESS DAYS) PRIOR TO CONSTRUCTION.

NOTES AND DRAWING LEGEND





CORNERSTONE SITE CONSULTANTS

NTER C NIOR SE LUMPKIN COUNTY EXPANSION

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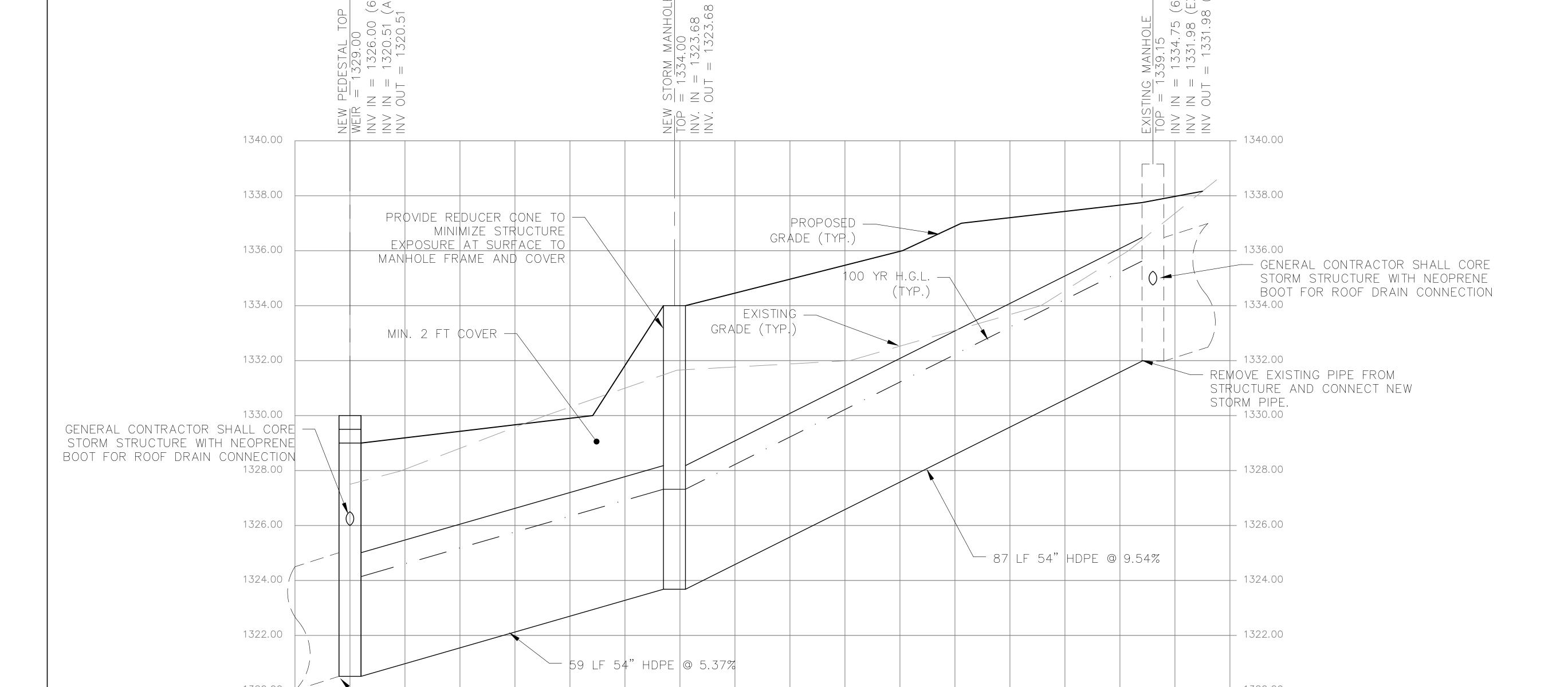
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STORM PROFILES

Sheet No.

C-300

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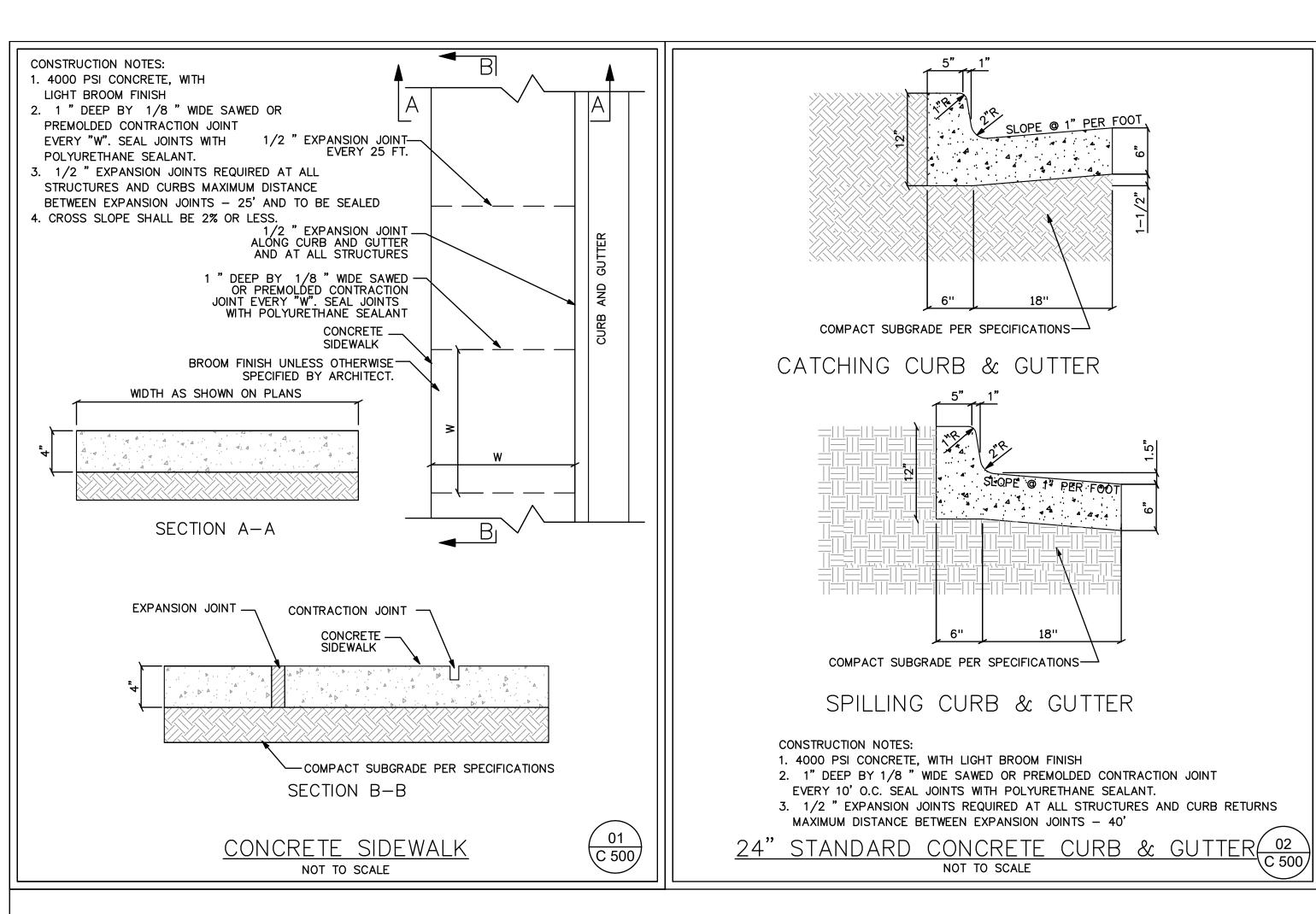
SCOPE OF WORK CLARIFICATION:

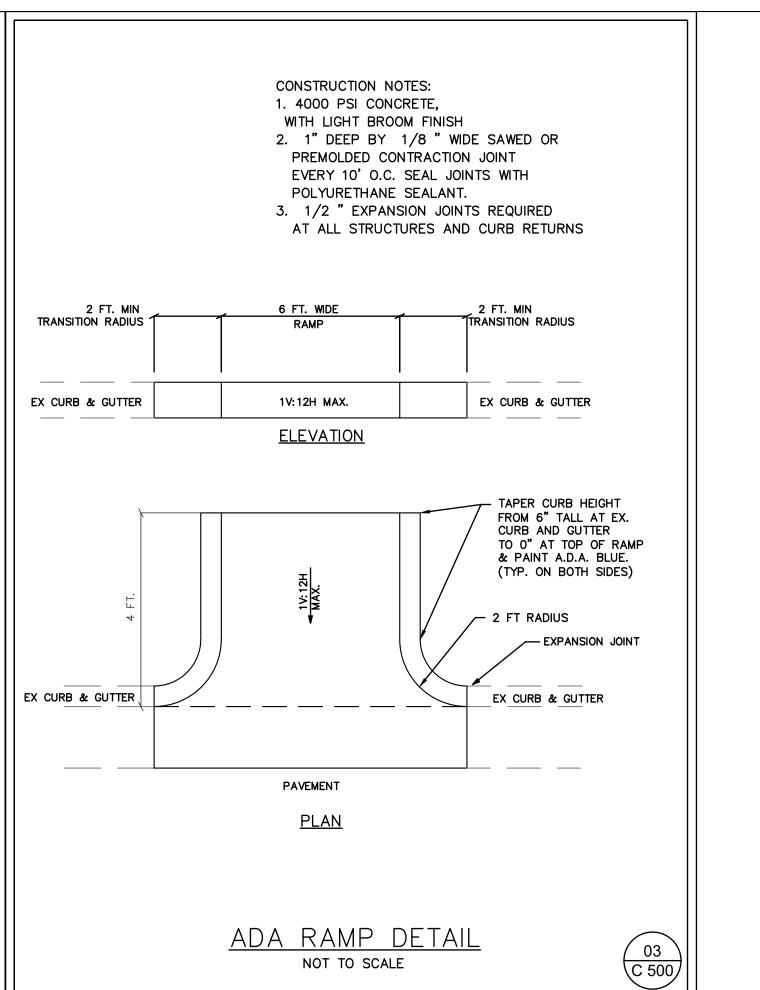
LUMPKIN COUNTY SHALL INSTALL STORM SEWER LINE A1-A3

0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30 1+39 1+50 1+60

PROFILE SCALE: 1" = 10' H, 1" = 2' V

- CONNECT EXISTING STORM PIPE TO NEW WEIR INLET STRUCTURE











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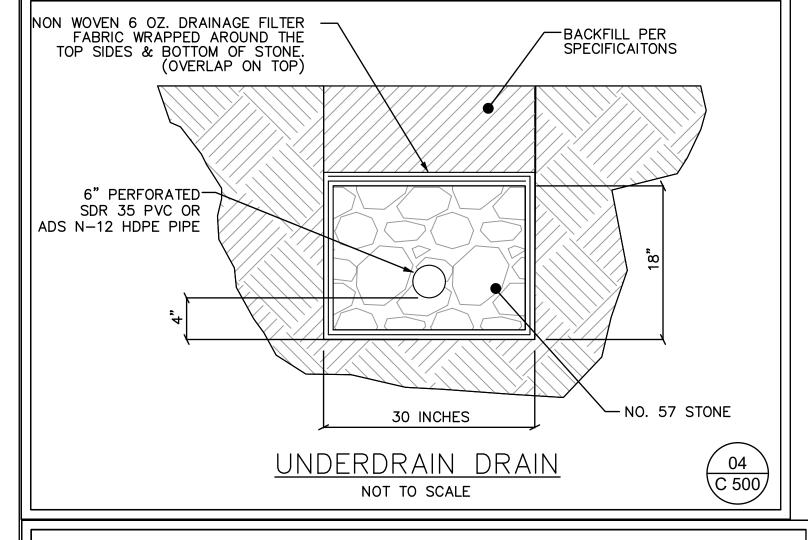
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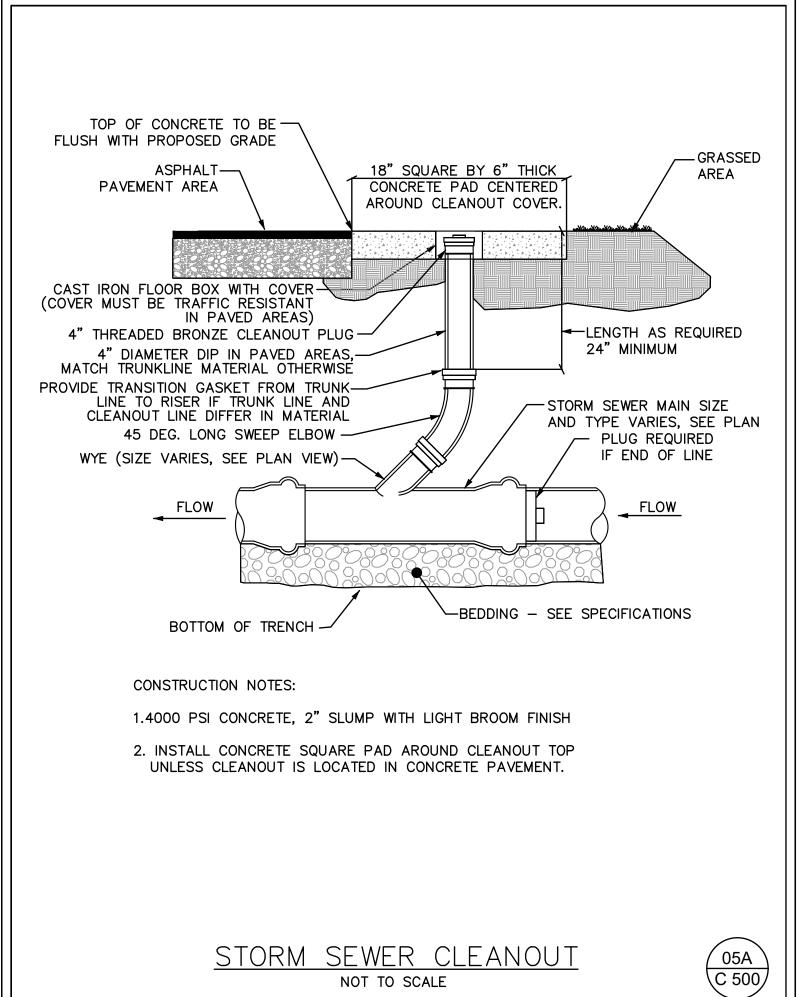
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CONSTRUCTION **DETAILS**

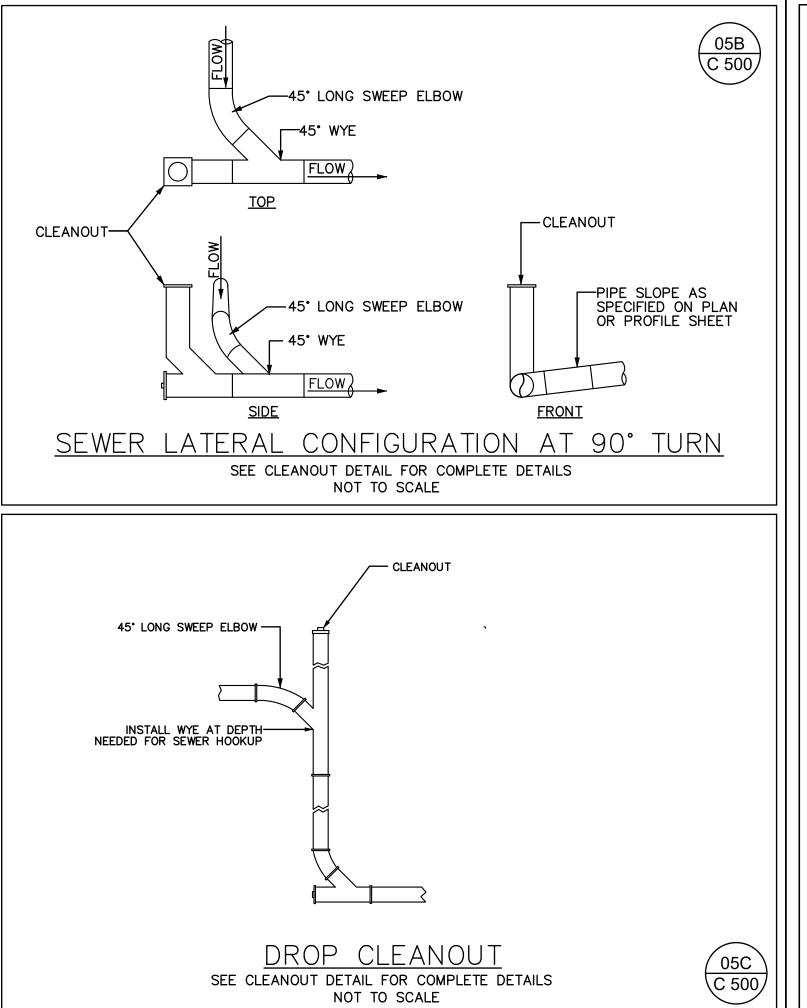
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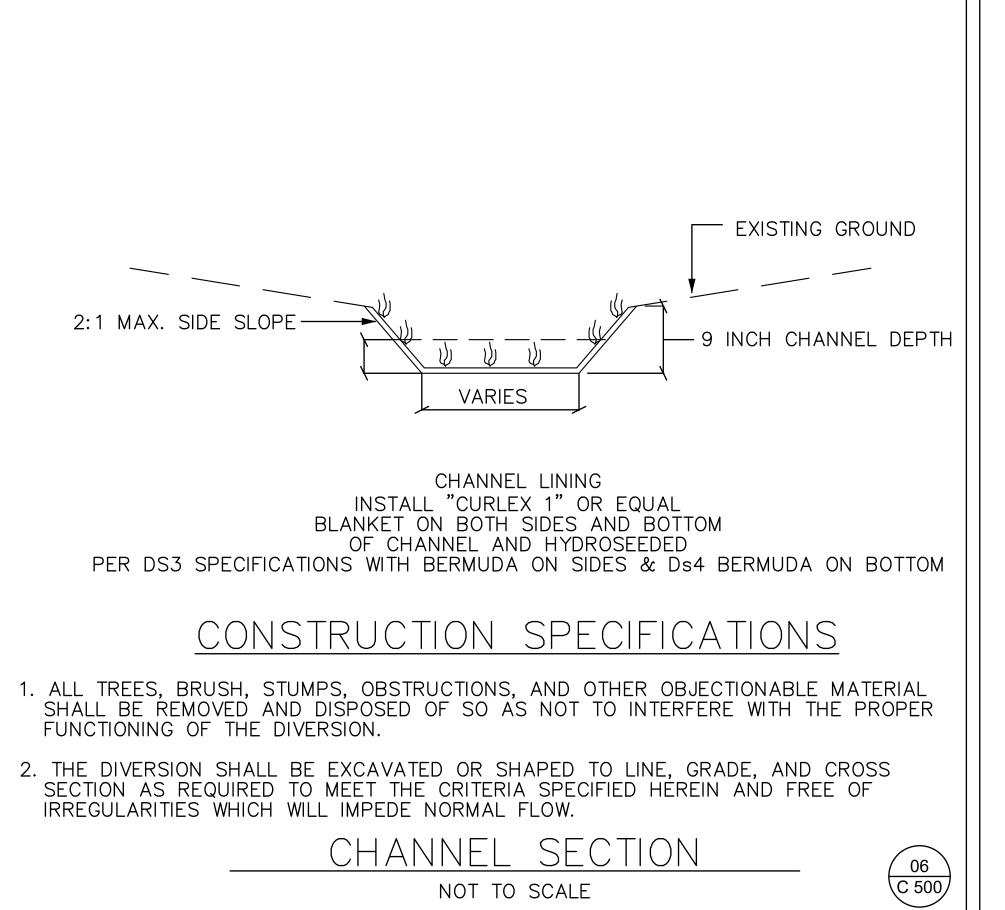
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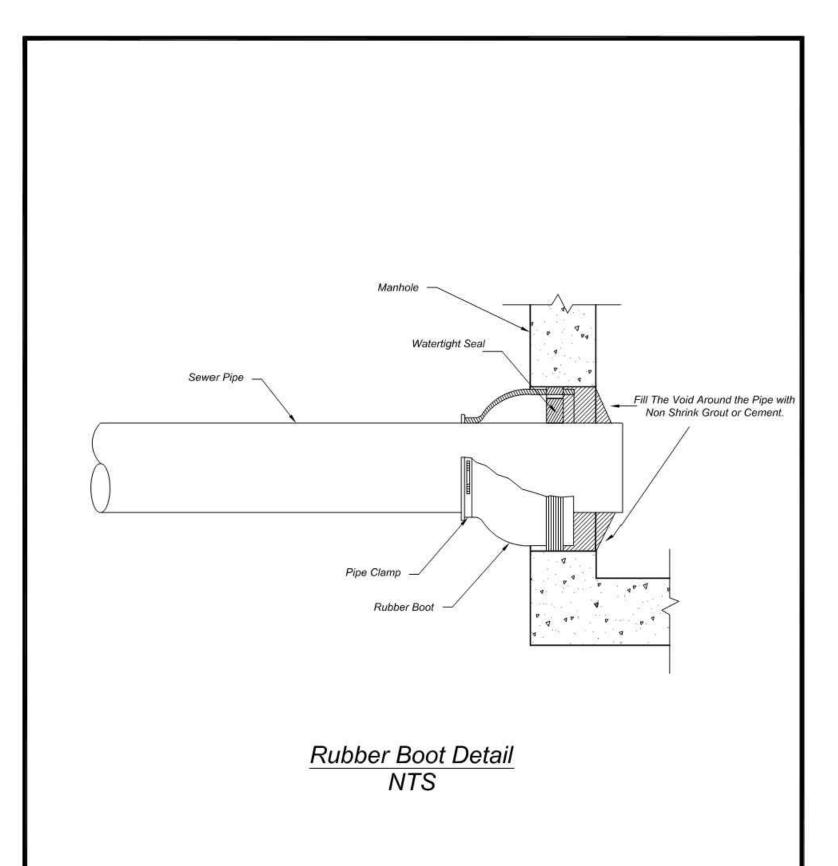


NOT TO SCALE

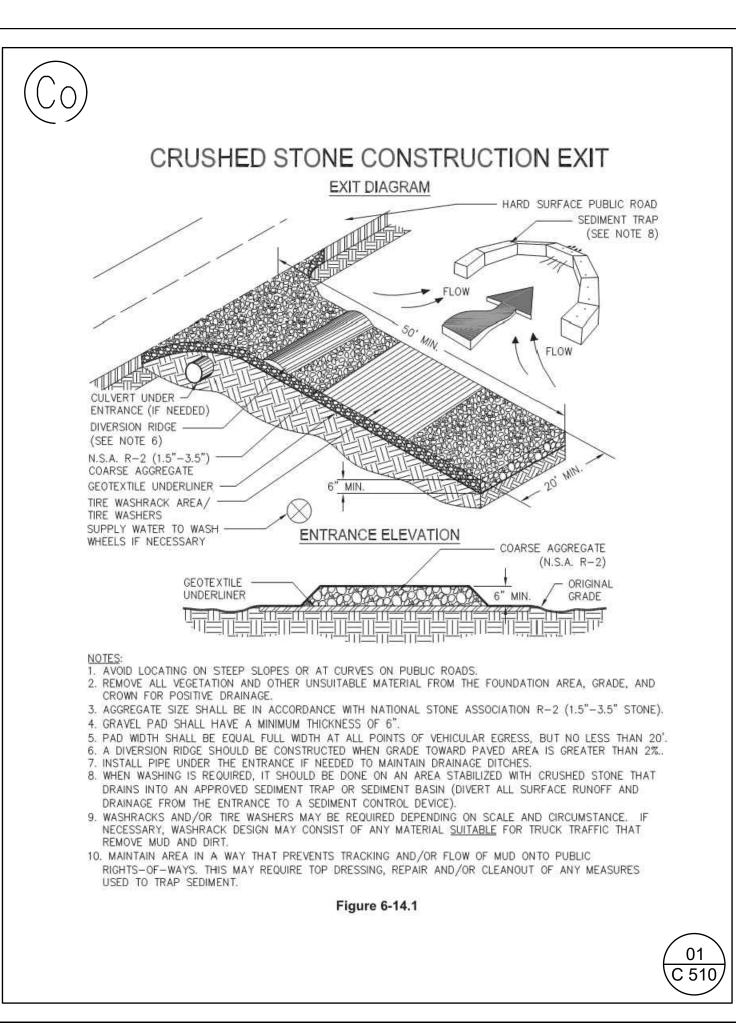


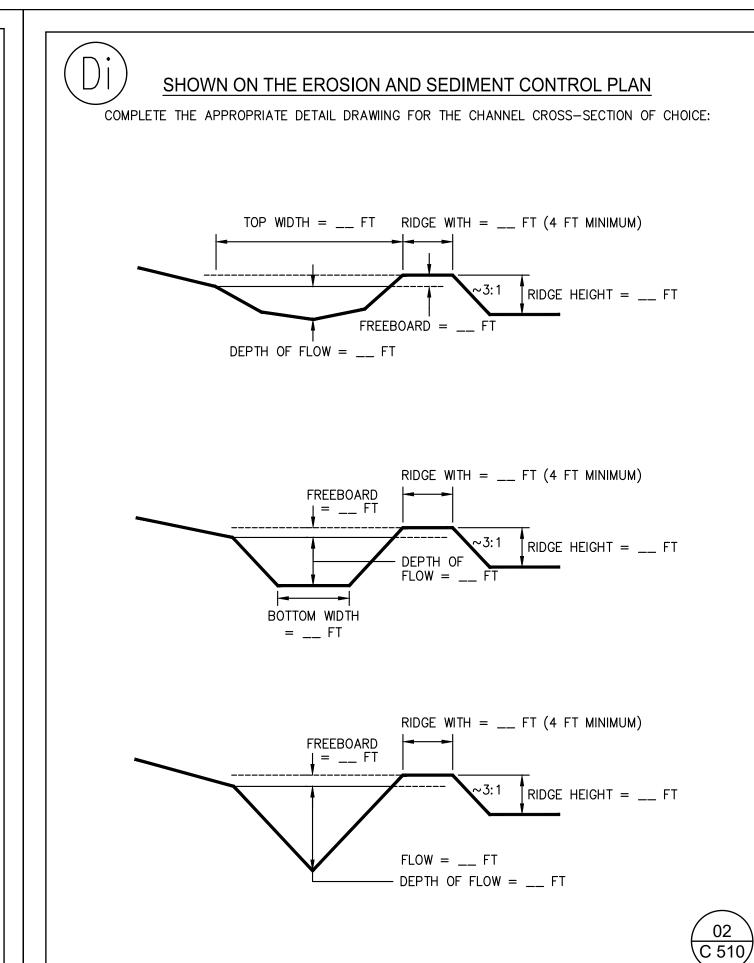


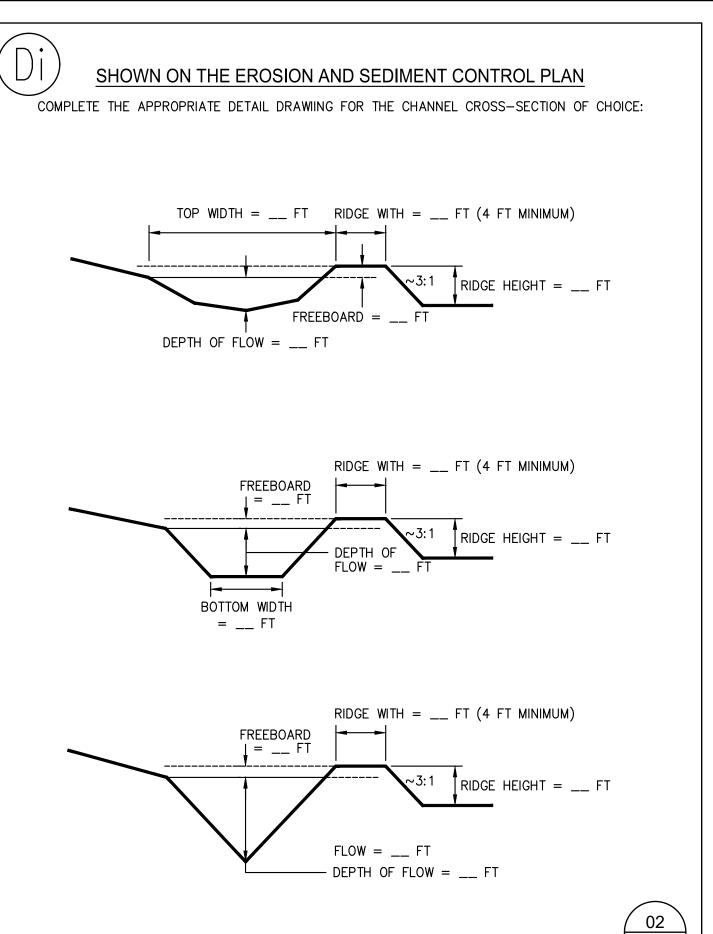
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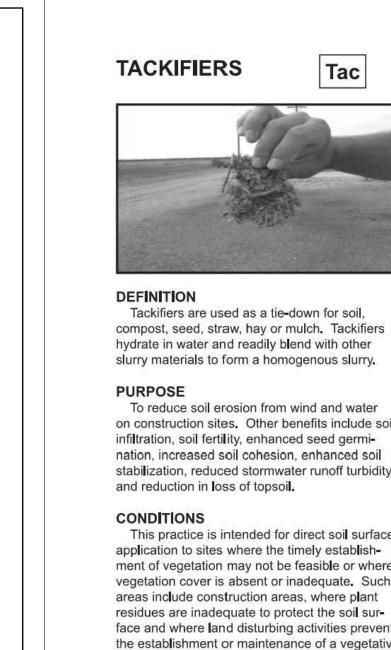












To reduce soil erosion from wind and water on construction sites. Other benefits include soil infiltration, soil fertility, enhanced seed germination, increased soil cohesion, enhanced soil stabilization, reduced stormwater runoff turbidity

This practice is intended for direct soil surface application to sites where the timely establishment of vegetation may not be feasible or where vegetation cover is absent or inadequate. Such areas include construction areas, where plant residues are inadequate to protect the soil surface and where land disturbing activities prevent the establishment or maintenance of a vegetative

CRITERIA Type I Tackifiers: Tac-1 Synthetic Polymers

 Application rates shall conform to manufacturer's guidelines for application. Only anionic forms of PAM shall be used. Anionic PAMs shall be no more than 0.05% acrylamide monomer by weight, as

GSWCC (Amended - 2013)

Shall not reduce infiltration rates.

established by the Food and Drug

Contain no growth or germination

Shall not reduce infiltration rates.

Such as guar gum, polysaccharides, and

manufacturer's guidelines for application.

·Not harmful to plants, animals and aquatic

Contain no growth or germination inhibiting

Application rates shall conform to

Derived from natural plant sources.

·Shall not reduce infiltration rates.

Synthetic/Organic Blends

Application rates shall conform to

acrylamide monomer by weight.

natural plant sources.

manufacturer's guidelines for application.

Only anionic forms of PAM shall be used

Organic material must be derived from

·Not harmful to plants, animals and aquatic

Contain no growth or germination inhibiting

(3A) (C 510)

in the blend, and shall be no more than 0.05%

inhibiting materials.

Type II Tackifiers: Organic Polymers

starches

materials.

Type III Tackifiers:

tion Agency.

Administration and the Environmental Protect-

Not harmful to plants, animals and aquatic

Type IV Tackifiers: Tac-4 Organic Tackifiers with Synthetic Fibers

 Application rates shall conform to manufacturer's guidelines for application.

 Organic material must be derived from natural plant sources.

Not harmful to plants, animals and aquatic

 Contain no growth or germination inhibiting Shall not reduce infiltration rates.

Synthetic fibers shall be of nylon or polyester

Type V Tackifiers: Synthetic/Organic Blends

with Synthetic Fibers

 Application rates shall conform to manufacturer's guidelines for application.

 Only anionic forms of PAM shall be used in the blend, and shall be no more than 0.05% acrylamide monomer by weight.

 Organic material must be derived from natural plant sources. Not harmful to plants, animals and aquatic

 Contain no growth or germination inhibiting materials.

Shall not reduce infiltration rate.

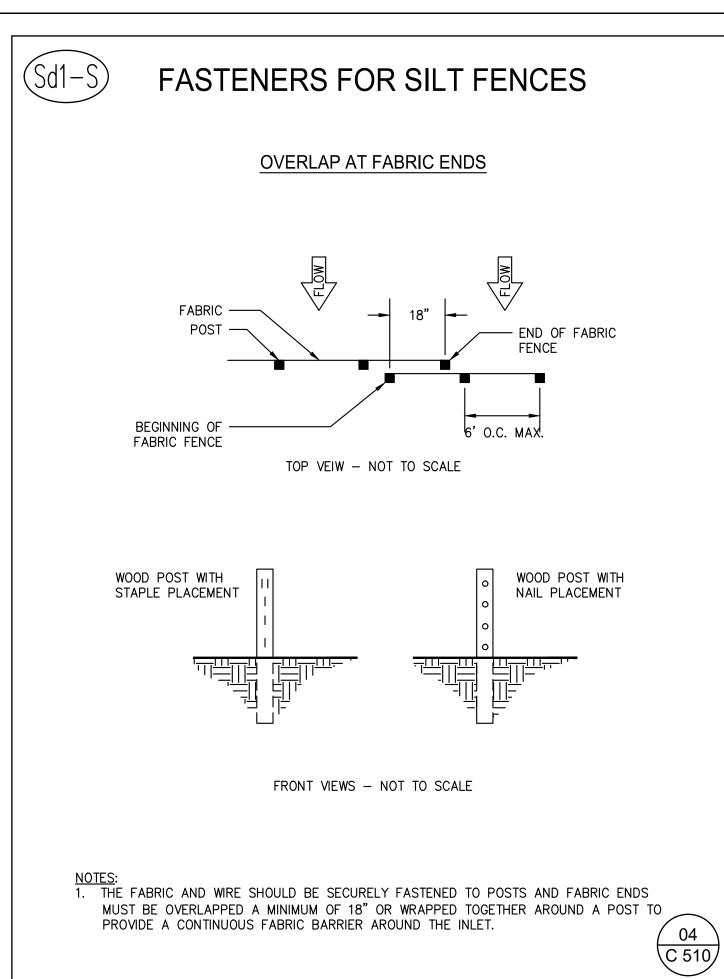
Synthetic fibers shall be of nylon or polyester

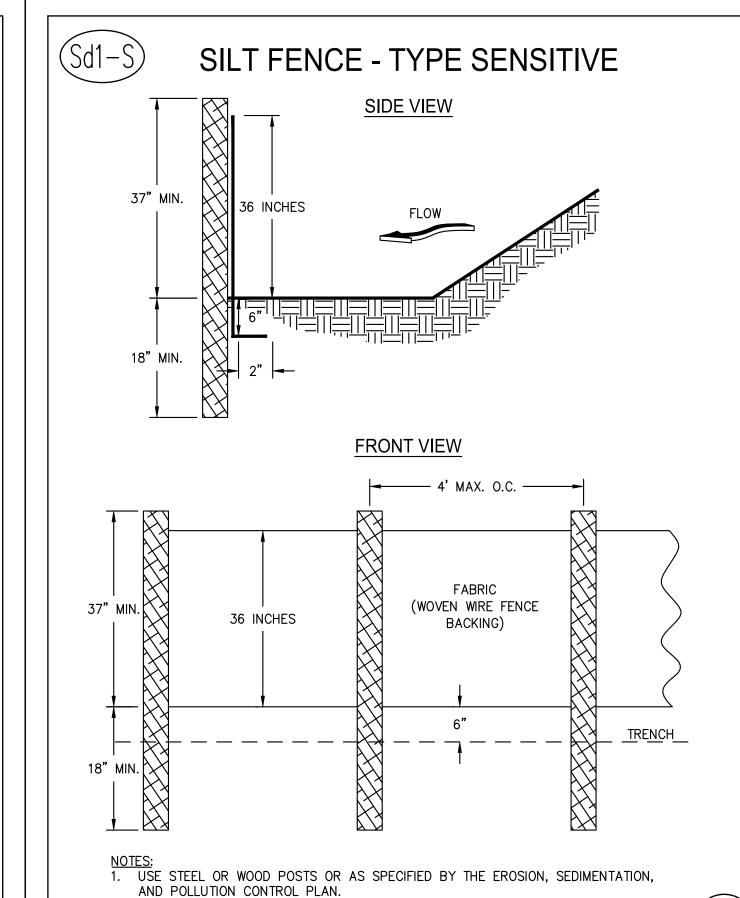
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MAINTENANCE rain event. Periodic inspections and required

Tackified areas should be checked after every maintenance must be provided per manufacturer's recommendations.

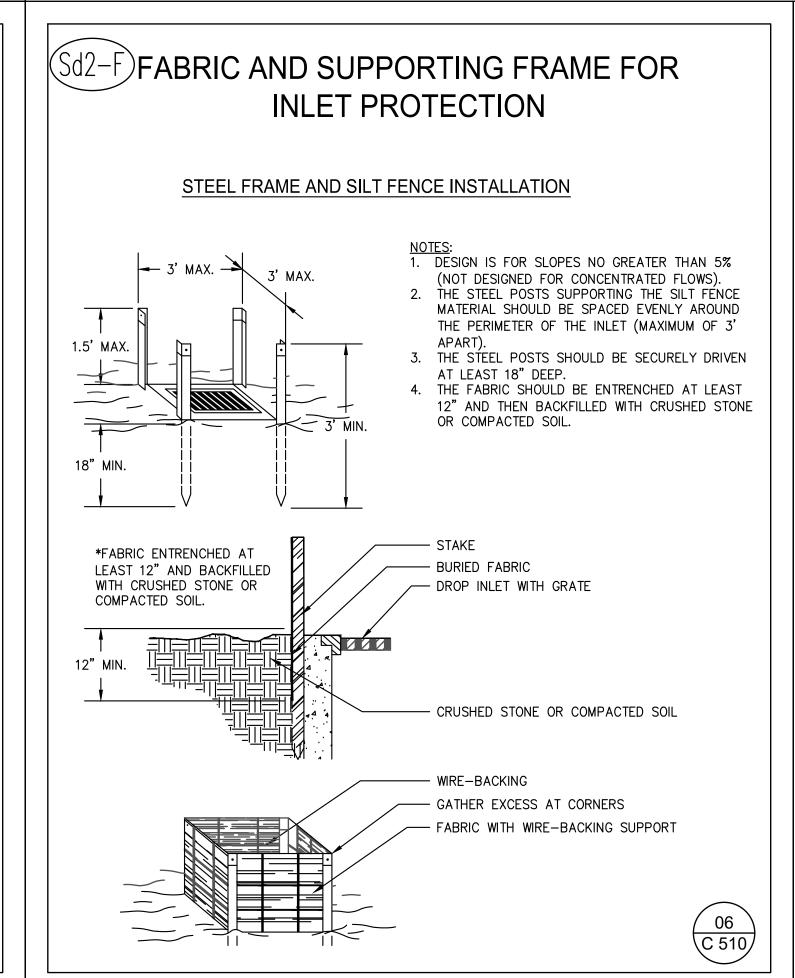
GSWCC (Amended - 2013)

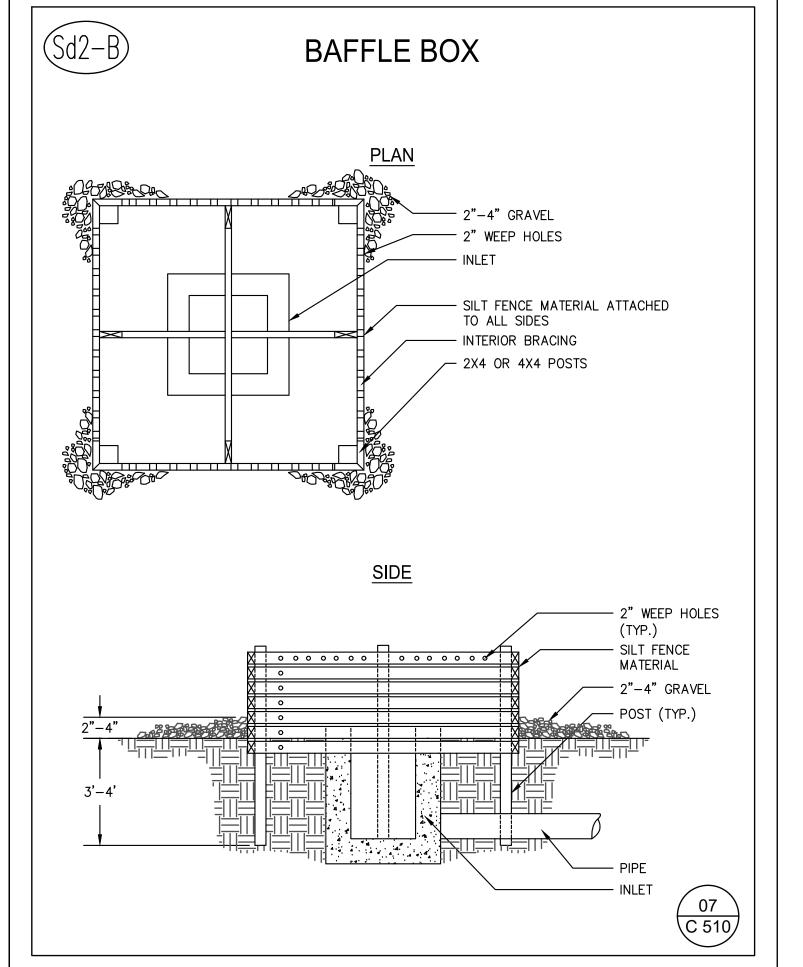


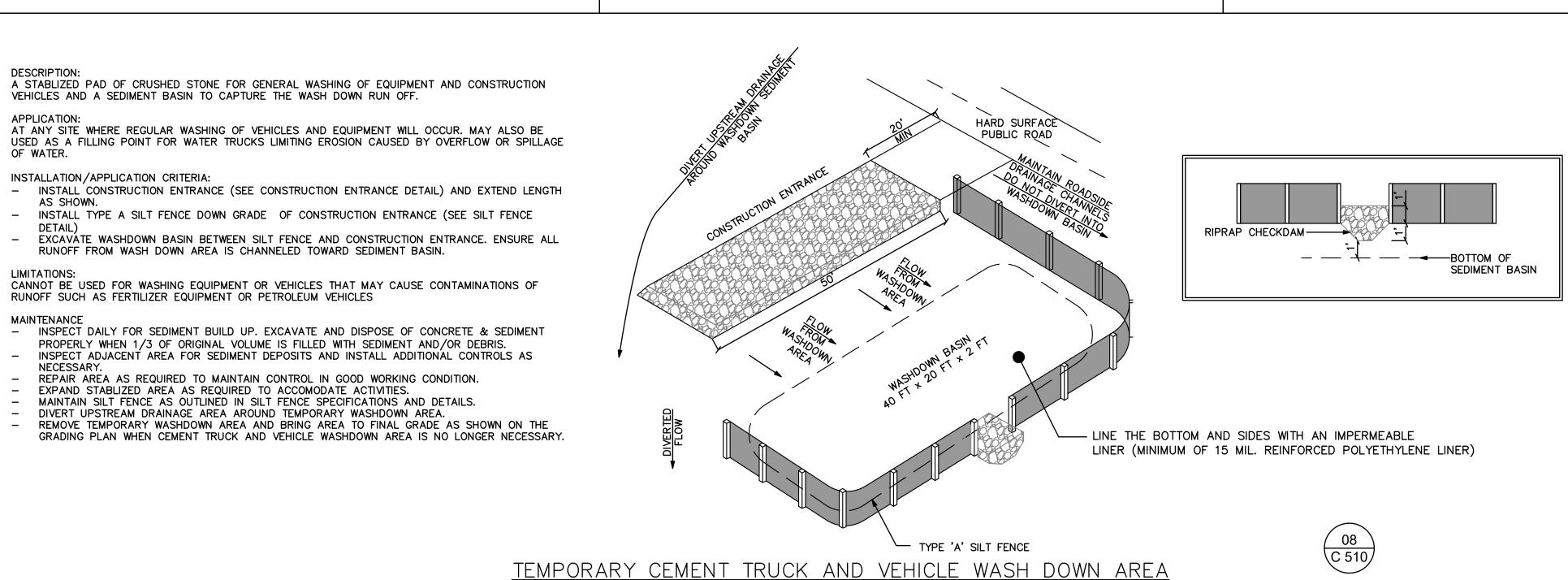


2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION

3. SECURE OSHA ORANGE SAFETY CAPS TO THE TOP OF POSTS







NOT TO SCALE

CONTROL PLAN.



CORNERSTONE SITE CONSULTANTS

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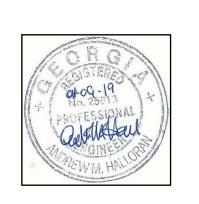
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10/29/2018 Sheet Title

ESPC DETAILS

Sheet No.



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Sheet Title

ESPC DETAILS

Sheet No. C-511

Disturbed Area Stabilization (With Mulching Only) Ds1



DEFINITION Applying plant residues or other suitable

materials, produced on the site if possible, to the

soil surface. To reduce runoff and erosion

To conserve moisture

To modify soil temperature

COMPLIANCE

To control undesirable vegetation

To increase biological activity in the soil

REQUIREMENT FOR REGULATORY

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six

Maintenance shall be required to maintain

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to Ds2 -Dis-GSWCC (Amended - 2013)

turbed Area Stabilization (With Temporary Seeding), Ds3 - Disturbed Area Stabilization (With Permanent Seeding), and Ds4 - Disturbed Area Stabilization (With Sodding).

SPECIFICATIONS Mulching Without Seeding

This standard applies to graded or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

 Grade to permit the use of equipment for applying and anchoring mulch. Install needed erosion control measures as required such as dikes, diversions, berms,

terraces and sediment barriers.

Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials Select one of the following materials and apply at the depth indicated:

 Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.

2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.

3. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and re-used.

Applying Mulch When mulch is used without seeding, mulch shall be applied to provide full coverage of the

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.

(1A) (C 511)

6-79

2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.

Apply polyethylene film on exposed areas.

Anchoring Mulch 1. Straw or hay mulch can be pressed into

the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

Straw or hay mulch spread with special blower-type equipment may be anchored. Tackifers, binders and hydraulic mulch with tackifier specifically desgined for tacking straw can be substituted for emulsified asphalt. Please refer to specification Tac-Tackifers. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's speci-

2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.

3. Polyethylene film shall be anchor trenched at the top as well as incrementally as necessary.

Slope Stabilization A protective covering used to prevent erosion

and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

To provide a cover layer that stabilizes the soil and acts as a rain drop impact dissipater while providing a microclimate which protects young vegetation and promotes its establishment. If using slope stabilization to reinforce channels, please refer to specification, Ch- Channel

Slope stabilization can be applied to flat areas or slopes where the erosion hazard is high and slope protection is needed during the establishment of vegetation.

PERFORMANCE EVALUATION For a product or practice to be approved as slope stabilization, that product or practice must have a documented C- factor of 0.080, as specified by GSWCC. For complete test procedures and approved products list please visit www.gaswcc.georgia.gov.

PLANNING CONSIDERATIONS Care must be taken to choose the type of slope stabilization product which is most appropriate for the specific needs of a project. Two general types of slope stabilization products are discussed within this specification.

Rolled Erosion Control Products (RECP) A natural fiber blanket with single or double photodegradable or biodegradable nets.

Hydraulic Erosion Control Products (HECP) HECP shall utilize straw, cotton, wood or other natural based fibers held together by a soil binding agent which works to stabilize soil particles. Paper mulch should not be used for erosion

Rolled Erosion Control Products (RECPs) and Hydraulic Erosion Control Products (HECPs):

Installation and stapling of RECPs and

application rates for the HECPs shall

Slope (H:V)

natural or biodegradable.

Materials - RECP

Ss

conform to manufacturer's guidelines for application •Products shall have a maximum C-factor (ASTM D6459) for the following slope grade:

C-Factor (max.) i.Photodegradable Blankets that consist of 70% straw and 30% 3:1 or greater coconut with a top and bottom side photodegrad-Materials - HECP able net. The top net should have ultraviolet ad-Hydraulic erosion control products shall be prepackaged from the manufacturer. Field mixthe mesh shall be openings of 0.65" X 0.65". The ing of performance enhancing additives will not blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness be allowed. Fiberous components should be all

Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012.

Blankets shall be nontoxic to vegetation, seed, or wildlife. Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012. At minimum, the plastic or biodegradable netting shall be stitched to the fibrous matrix to maximize strength and provide for ease

(2C) (C 514)

of handling. RECPs are categorized as follows:

a. Short-Term (functional longevity 12 mo.) . Photodegradable Straw blankets with a top and bottom side

GSWCC (Amended - 2013)

photo degradable net. The maximum size of the

mesh shall be openings of $\frac{1}{2}$ " X $\frac{1}{2}$ ". The blanket

top and bottom side photodegradable net. Each net should have ultraviolet additives to delay

(functional longevity 36 mo.)

i. Photodegradable

should be sewn together on 1.5" centers with

square yard.

ii. Biodegradable

b. Extended-Term

0.6 lbs per square yard.

ii.Biodegradable

(functional longevity 24 mo.)

degradable thread. Minimum thickness should be

Straw blanket with a top and bottom side bio-

degradable jute net. The top side net shall con-

sist of machine direction strands that are twisted

together and then interwoven with cross direction

The approximate size of the mesh shall be open-

ings of 0.5" X 1.0". The blanket should be sewn

together on 1.5" centers with degradable thread.

mum density should be 0.5 lbs per square yard.

should be 0.35" and minimum density should be

Blankets that consist of 70% straw and 30%

coconut with a top and bottom side biodegrad-

gether and then interwoven with cross direction

strands (leno weave). The bottom net may be

leno weave or otherwise to meet requirements.

ings of 0.5" X 1.0". The blanket should be sewn

Minimum thickness should be 0.25" and mini-

together on 1.5" centers with degradable thread.

mum density should be 0.65 lbs per square yard.

Blankets that consist of 100% coconut with a

The approximate size of the mesh shall be open-

able jute net. The top side net shall consist of

machine direction strands that are twisted to-

Minimum thickness should be 0.25" and mini-

strands (leno weave). The bottom net may be

leno weave or otherwise to meet requirements.

0.35" and minimum density should be 0.5 lbs per

breakdown. The maximum size of the mesh shall be openings of 0.65" X 0.65". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.3" and minimum density should be 0.5 lbs per square yard.

iii. Biodegradable Blankets that consist of 100% coconut with a top and bottom side biodegradable jute net. The top side net shall consist of machine direction strands that are twisted together and then interwoven with cross direction strands (leno weave). The bottom net may be leno weave or otherwise to meet requirements. The approximate size of the mesh shall be openings of 0.5" X 1.0". The blanket should be sewn together on 1.5" centers with degradable thread. Minimum thickness should be 0.25" and minimum density should be 0.5 lbs per square yard.

It is the intention of this section to allow interchangeable use of RECPs and HECPs for erosion protection on slopes. The project engineer ditives to delay breakdown. The maximum size of should select the type of erosion control product

that best fits the need of the particular site.

Site Preparation After the site has been shaped and graded to the approved design, prepare a friable seedbed relatively free from clods and rocks more than one inch in diameter, and any foreign material that will prevent contact of the soil stabilization mat with the soil surface. Surface must be smooth to ensure proper contact of blankets or matting to the soil surface. If necessary, redirect any runoff from the ditch or slope during installa-

MAINTENANCE All erosion control blankets and matting

should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become perma-

nently stabilized.

GSWCC (Amended - 2013)

A. STAKE MAT INTO SLOT. STEP 3: TUCK MAT LAP INTO SLOT B. USE 1" X 3" PRESSURE TREATED BOARD TO SPACE MAT AGAINST . BACKFILL AND COMPACT. A. BACKFILL AND PROGRESS UPSTREAM
B. PULL OUT TEMPORARY STAKES WHEN A. REVERSE MAT ROLL DIRECTION TO STREAM OVER REFILLED TERMINAL
. STAKE MAT DOWN TO ANCHOR OVERLAY CHECK LOT.
B. STAKE MAT TO ANCHOR TERMINAL. NO LONGER NEEDED FOR TENSIONING. B. TERMINAL. C. PROGRESS UPSTREAM WITH ROLL. PICTORAL VIEW OF TRANSVERSE SLOT SEQUENTIAL ROLL RUN OUT IN

TYPICAL INSTALLATION GUIDELINES FOR ROLLED

EROSION CONTROL PRODUCTS (RECP)

BLANKET AND MATTING CROSS-SECTIONS

STEP 2: WORK UPSTREAM ACROSS

CHECK SLOT AND LAP BACK 15".

TRANSVERSE CHECK SLOT

(2B) (C 514)

UPSTREAM TERMINAL

STEP 1: CUT TERMINAL SLOT.

STEP 2: SNUG MAT INTO SLOT.

Ss

START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.

FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL A PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.

WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.

USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE

USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE

LINING AT THE ROLL ENDS.

HE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THI

DOWNSTREAM TERMINAL

Disturbed Area Stabilization (With Temporary Seeding)

DEFINITION The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

•To reduce runoff and sediment damage of down stream resources To protect the soil surface from erosion

 To improve wildlife habitat To improve aesthetics To improve tilth, infiltration and aeration as

well as organic matter for permanent plantings REQUIREMENT FOR REGULATORY

COMPLIANCE Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to

specification Ds1-Disturbed Area Stabilization

(With Temporary Seeding).

GSWCC (Amended - 2013)

Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established. Note: Some species of temporary vegetation are not appropriate for companion crop plantings because of their potential to out-compete the desired species (e.g. annual ryegrass). Contact NRCS or the local SWCD for more information.

SPECIFICATIONS Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can

be stabilized by hand-seeded vegetation or if hy-

draulic seeding equipment is to be used. Seedbed Preparation When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is

sealed by rainfall. When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

not required if the soil material is loose and not

Lime and Fertilizer Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, culti-packer-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short

term protection. Refer to Ds1 - Disturbed Area

Stabilization (With Mulching Only).

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when

GSWCC (Amended - 2013)

GSWCC (Amended - 2013)

(1B) (C 511)

Ds2

4 lbs 2 lbs





₹ a o



₹ 4 0

₹ a o

2C C 511

Ds2

2B C 511

remaining required application rate.

 $\begin{pmatrix} 2A \\ C 511 \end{pmatrix}$

(2E) (C 511)

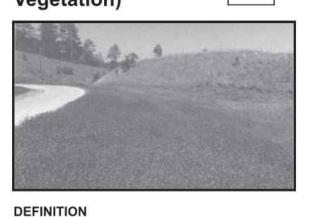
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Date Job No. 10/29/2018 17001DG **Sheet Title**

ESPC DETAILS

Disturbed Area Stabilization (With Permanent Vegetation)



The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

PURPOSE

- To protect the soil surface from erosion To reduce damage from sediment and
- runoff to down-stream areas To improve wildlife habitat and visual
- resources To improve aesthetics

REQUIREMENT FOR REGULATORY COMPLIANCE

This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. Final Stabilization means that all soil disturbing activities at the site have been completed, and that for unpaved areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA EPD for waste disposal, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.

tion establishment enhancement, and erosion

rial from the following and apply as indicated:

control effectiveness. Select the mulching mate-

Dry straw or dry hay of good quality and free

2. Wood cellulose mulch or wood pulp fiber

of weed seeds can be used. Dry straw shall

be applied at the rate of 2 tons per acre. Dry

hay shall be applied at a rate of 2 1/2 tons

shall be used with hydraulic seeding. It shall

be applied at the rate of 500 pounds per acre.

Dry straw or dry hay shall be applied (at the

rate indicated above) after hydraulic seeding.

wood pulp fiber, which includes a tackifier,

shall be used with hydraulic seeding on slopes

seed shall be applied at a rate of three tons

thickness of 3 inches for bedding purposes.

Other suitable materials in sufficient quantity

may be used where ornamentals or other

ground covers are planted. This is not ap-

When using temporary erosion control blan-

kets or block sod, mulch is not required.

Bituminous treated roving may be applied on

planted areas, slopes, in ditches or dry water-

ways to prevent erosion. Bituminous treated

roving shall be applied within 24 hours after

an area has been planted. Application rates

and materials must meet Georgia Depart-

ment of Transportation specifications.

contain germination or growth inhibiting factors.

They shall be evenly dispersed when agitated in

water. The fibers shall contain a dye to allow visual

metering and aid in uniform application during

Straw or hay mulch will be spread uniformly

within 24 hours after seeding and/or plant-

Wood cellulose and wood pulp fibers shall not

One thousand pounds of wood cellulose or

4. Sericea Lespedeza hay containing mature

5. Pine straw or pine bark shall be applied at a

propriate for seeded areas.

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per acre.

3/4:1 or steeper.

per acre.

seeding.

Applying Mulch

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Permanent vegetation shall consist of, planted trees, shrubs, perennial vines; or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

CONDITIONS Permanent perennial vegetation is used to provide a protective cover for exposed areas

possible.

including cuts, fills, dams, and other denuded PLANNING CONSIDERATIONS

When mixed plantings are done during mar-

No-till planting is effective when planting is

ginal planting periods, companion crops shall

done following a summer or winter annual

cover crop. Sericea lespedeza planted no-till

into stands of rye is an excellent procedure.

especially effective in controlling erosion

adjacent to concrete flumes and other struc-

tures. Refer to Specification Ds4-Disturbed

Area Stabilization (With Sodding).

or when summer plantings are done.

Low maintenance plants, as well as natives,

should be used to ensure long-lasting ero-

Mowing should not be performed during the

quail nesting season (May to September).

8. Wildlife plantings should be included in

ing. The mulch may be spread by blower-type

of the soil surface.

Anchoring Mulch

spreading equipment, other spreading equipment

or by hand. Mulch shall be applied to cover 75%

Wood cellulose or wood fiber mulch shall be ap-

Anchor straw or hay mulch immediately after

Hay and straw mulch shall be pressed

into the soil immediately after the mulch is

spread. A special "packer disk" or disk har-

row with the disks set straight may be used.

The disks may be smooth or serrated and

should be 20 inches or more in diameter and

8 to 12 inches apart. The edges of the disks

shall be dull enough to press the mulch into

the ground without cutting it, leaving much

of it in an erect position. Mulch shall not be

2. Synthetic tackifiers, binders or hydraulic

mulch specifically designed to tack straw.

shall be applied in conjunction with or im-

mediately after the mulch is spread. Syn-

thetic tackifiers shall be mixed and applied

according to manufacturer's specifications.

All tackifiers, binders or hydraulic mulch

specifically designed to tack straw should be

Winter plantings to stabilize the mulch. They

shall be applied at a rate of one-quarter to

than one inch by one inch may be needed

to anchor straw or hay mulch on unstable

soils and concentrated flow areas. These

materials shall be installed and anchored

according to manufacturer's specifications.

Mulch is used as a bedding material to con-

serve moisture and control weeds in nurseries.

ornamental beds, around shrubs, and on bare

4. Plastic mesh or netting with mesh no larger

3. Rye or wheat can be included with Fall and

verified nontoxic through EPA 2021.0 testing.

plowed into the soil.

Refer to Tackifiers-Tac

one-half bushel per acre.

application by one of the following methods:

plied uniformly with hydraulic seeding equipment.

critical area plantings.

Irrigation should be used when the soil is dry

4. Block sod provides immediate cover. It is

1. Use conventional planting methods where

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(1D) (C 512)

Grasses, Legumes, Vines and Temporary Cover

Sweetgum.

chardgrass (for mountains), Browntop Millet (for temporary cover), and Native grapes. Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate le-

after a few years. CONSTRUCTION SPECIFICATIONS

sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.

<u>Material</u>

Grain straw

Grass Hay

Pine needles

Wood waste

cause runoff...

4" to 6"

4" to 6"

3" to 5"

4" to 6"

Irrigation will be applied at a rate that will not

Topdressing will be applied on all temporary

and permanent (perennial) species planted alone

or in mixtures with other species. Recommended

rates of application are listed in Table 6-5.1.

fertilizer rates are listed in Table 6-5.1.

Lime Maintenance Application

requirements. if desired.

Use and Management

November and March.

tablishment.

Second Year and Maintenance Fertilization

Second year fertilizer rates and maintenance

Apply one ton of agricultural lime every 4 to

6 years or as indicated by soil tests. Soil tests

can be conducted to determine more accurate

Mow Sericea Lespedeza only after frost to

ensure that the seeds are mature. Mow between

Bermudagrass, Bahiagrass and Tall Fescue may

be mowed as desired. Maintain at least 6 inches

of top growth under any use and management.

Moderate use of top growth is beneficial after es-

Exclude traffic until the plants are well estab-

Wildlife Plantings Commercially available plants beneficial to wildlife species include the following:

Mast Bearing Trees Beech, Black Cherry, Blackgum, Chestnut,

Chinkapin, Hackberry, Hickory, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and

All trees that produce nuts or fruits are favored by many game species. Hickory provides nuts used mainly by squirrels and bear. Shrubs and Small Trees

Bayberry, Bicolor Lespedeza, Crabapple, Dogwood, Huckleberry or Native Blueberry, Mountain Laurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for lespedeza which produces seeds used by quail and songbirds.

Bahiagrass, Bermudagrass, Grass-Legume mixtures, Partridge Pea, Annual Lespedeza, Or-

gumes such as vetches, clovers, and lespedezas may be mixed with grass, but they may die out

Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be

Concentrations of water that will cause excessive

soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

> Lime and Fertilizer Rates and Analysis Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting

> > a 100-mesh sieve.

the specifications of the Georgia Department of Agriculture. Lime spread by conventional equipment shall be 'ground limestone." Ground limestone is calcitic or dolomitic limestone ground so that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh

sieve and not less than 25 percent will pass through

permanent perennial vegetation, additional lime

is not required. Agricultural lime shall be within

Fast-acting lime spread by hydraulic seeding equipment should be "finely ground limestone" spanning from the 180 micron size to the 5 micron size. Finely ground limestone is calcitic or dolomitic limestone ground so that 95 percent of the material will pass through a 100-mesh sieve.

It is desirable to use dolomitic limestone in the Sand Hills, Southern Coastal Plain and Atlantic Coast Flatwoods MLRAs. (See Figure 6-4.1)

Agricultural lime is generally not required where only trees are planted. Initial fertilization, nitrogen, topdressing, and

maintenance fertilizer requirements for each species or combination of species are listed in Table Lime and Fertilizer Application When hydraulic seeding equipment is used,

the initial fertilizer shall be mixed with seed,

innoculant (if needed), and wood cellulose or

wood pulp fiber mulch and applied in a slurry. The innoculant, if needed, shall be mixed with the seed prior to being placed into the hydraulic seeder. The slurry mixture will be agitated during application to keep the ingredients thoroughly mixed. The mixture will be spread uniformly over the area within one hour after being placed in the

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hydroseeder.

Finely ground limestone can be applied in the mulch slurry or in combination with the top dressing. When conventional planting is to be done, lime and fertilizer shall be applied uniformly in one of

the following ways: 1. Apply before land preparation so that it will be mixed with the soil during seedbed prepara-

2. Mix with the soil used to fill the holes, distribute in furrows.

Broadcast after steep surfaces are scarified, pitted or trenched. 4. A fertilizer pellet shall be placed at root depth

in the closing hole beside each pine tree seedling. Plant Selection

Refer to Tables 6-4.1, 6-5.2, 6-5.3 and 6-5.4 for approved species. Species not listed shall be approved by the State Resource Conservationist of the Natural Resources Conservation Service before they are used.

Plants shall be selected on the basis of species characteristics, site and soil conditions, planned use and maintenance of the area; time of year of planting, method of planting; and the needs and desires of the land user.

Some perennial species are easily established and can be planted alone. Examples of these are Common Bermuda, Tall Fescue, and Weeping Lovegrass.

Other perennials, such as Bahia Grass and Sericea Lespedeza, are slow to become established and should be planted with another perennial species. The additional species will provide quick cover and ample soil protection until the target perennial species become established. For example, Common seeding combinations are 1) Weeping Lovegrass with Sericea Lespedeza (scarified) and 2) Tall Fescue with Sericea Lespedeza (unscarified).

Plant selection may also include annual companion crops. Annual companion crops should be used only when the perennial species are not planted during their optimum planting period. A common GSWCC (Amended - 2013)

YEAR

TYPE OF SPECIES

mixture is Brown Top Millet with Common Bermuda in mid-summer. Care should be taken in selecting companion crop species and seeding rates because annual crops will compete with perennial species for water, nutrients, and growing space. A high seeding rate of the companion crop may prevent the establishment of perennial species.

Ryegrass shall not be used in any seeding mixtures containing perennial species due to its ability to out-compete desired species chosen for permanent perennial cover.

Seed Quality The term "pure live seed" is used to express the quality of seed and is not shown on the label. Pure live seed, PLS, is expressed as a percentage of the seeds that are pure and will germinate. Information on percent germination and purity can be found on seed tags. PLS is determined by multiplying the percent of pure seed with the percent of germination; i.e.,

(PLS = % germination x % purity)

Common Bermuda seed 70% germination, 80% purity PLS = 70% germination x 80% purity

Where pine seedlings are to be planted, The percent of PLS helps you determine the

bulk seeding rate is: 10 lbs. PLS/acre = 17.9 lbs/acre

You would need to plant 17.9 lbs/acre to provide 10 lbs/acre of pure live seed.

amount of seed you need. If the seeding rate is 10

pounds PLS and the bulk seed is 56 % PLS, the

Seedbed Preparation Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used (but is strongly recommended for any seeding process, when possible). When conventional seeding is to be used, seedbed

preparation will be done as follows: Broadcast plantings

1. Tillage, at a minimum, shall adequately

loosen the soil to a depth of 4 to 6 inches; the same day inoculated. No inoculated seed shall alleviate compaction; incorporate lime and remain in the hydroseeder longer than one hour. Hydraulic Seeding

plants; and allow for the anchoring of straw Mix the seed (innoculated if needed), fertilizer, or hay mulch if a disk is to be used. and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the 2. Tillage may be done with any suitable area to be treated. Apply within one hour after equipment.

the mixture is made. Conventional Seeding

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use On slopes too steep for the safe operation a culti-packer-seeder, drill, rotary seeder, other of tillage equipment, the soil surface shall mechanical seeder, or hand seeding to distribute be pitted or trenched across the slope with the seed uniformly over the area to be treated. appropriate hand tools to provide two places Cover the seed lightly with 1/8 to 1/4 inch of soil 6 to 8 inches apart in which seed may lodge for small seed and 1/2 to 1 inch for large seed and germinate. Hydraulic seeding may also when using a cultipacker or other suitable equip-

No-Till Seeding

No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots.

Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface.

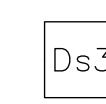
Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% to 100% soil cover. When selecting a mulch, design professionals should consider the mulch's functional longevity, vegeta-

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fertilizer; smooth and firm the soil; allow for

the proper placement of seed, sprigs, or

3. Tillage should be done on the contour where

1. Where individual plants are to be set, the

2. For nursery stock plants, holes shall be

opening furrows, or dibble planting.

soil shall be prepared by excavating holes,

large enough to accommodate roots without

subsoil under the row 36 inches deep on the

Subsoiling should be done when the soil is

contour four to six months prior to planting.

dry, preferably in August or September.

All legume seed shall be inoculated with ap-

propriate nitrogen-fixing bacteria. The innoculant

shall be a pure culture prepared specifically for

the seed species and used within the dates on

A mixing medium recommended by the manu-

facturer shall be used to bond the innoculant to

the seed. For conventional seeding, use twice

the amount of innoculant recommended by the

manufacturer. For hydraulic seeding, four times

the amount of innoculant recommended by the

All inoculated seed shall be protected from the

sun and high temperatures and shall be planted

be used.

Individual Plants

nnoculants

the container.

manufacturer shall be used.

RATE

1500 lbs./ac.

800 lbs./ac.

1500 lbs./ac.

400 lbs./ac.

1000 lbs./ac.

400 lbs./ac.

TOP DRESSING

50-100 lbs./ac. 2/6/

50-100 lbs./ac. 2/

30 lbs./ac.

50 lbs./ac./6/



Table 6-5.1. Fertilizer Requirements

EQUIVALENT

RATE 50-100 lbs./ac. 1/2/ 1. Cool season 6-12-12 1500 lbs./ac. 6-12-12 1000 lbs./ac. grasses 10-10-10 Maintenance 400 lbs./ac. 1500 lbs./ac. 0-50 lbs./ac. 1/ Cool season grasses and Second 0-10-10 1000 lbs./ac. 0-10-10 Maintenance 400 lbs./ac. legumes 1300 lbs./ac. 3/ Ground covers 10-10-10 Second 1300 lbs./ac. 3/ 10-10-10 Maintenance 1100 lbs./ac. Pine seedlings 20-10-5 one 21-gram pellet per seedling placed in the closing hole Shrub Lespedeza 700 lbs./ac. 0-10-10 700 lbs./ac. 4/ Maintenance 10-10-10 500 lbs./ac. 30 lbs./ac. 5/ Temporary cover crops seeded alone

6-12-12

10-10-10

0-10-10

0-10-10

6/ Apply when plants grow to a height of 2 to 4 inches.

Second

Second

Maintenance

Maintenance

1/ Apply in spring following seeding.

2/ Apply in split applications when high rates are used. 3/ Apply in 3 split applications.

4/ Apply when plants are pruned.

5/ Apply to grass species only.

Warm season

grasses

Warm season

legumes

grasses and

lished. Because of the quail nesting season, mowing should not take place between May and

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RESPREAD EXISTING TOPSOIL TO A MIN. 2 INCHES UP TO 4 INCHES IF AVAILABLE. - SUBGRADE PREPARE SOIL FOR 6-42 HYDROSEEDING

Bedding Material

areas on lawns.

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TO PROVIDE 90% DENSITY

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6-93

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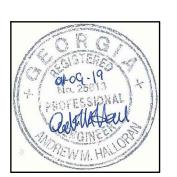
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6-92

- HYDROSEEDED GRASS

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Sheet No.



C S

RESPREAD EXISTING

MIN. 2 INCHES UP

1E C 513

TOPSOIL TO A

TO 4 INCHES IF

AVAILABLE.

PREPARE SOIL FOR

HYDROSEEDING

01/09/2019 PERMIT / BID DOCUMENT

Date Job No.

10/29/2018 Sheet Title

CORNERSTONE

MP PA

PRINT RECORD

No. DATE DESCRIPTION

Drawn By Checked By

17001DG

ESPC DETAILS

Sheet No.

RELEASED FOR CONSTRUCTION

DISTURBED AREA STABILIZATION (WITH SODDING)



DEFINITION A permanent vegetative cover using sods on highly erodible or critically eroded lands.

- Establish immediate ground cover.
- Reduce runoff and erosion. ·Improve aesthetics and land value.
- Reduce dust and sediments.
- Stabilize waterways, critical areas.
- · Filter sediments, nutrients and bugs.
- Reduce downstream complaints. Reduce likelihood of legal action.
- Reduce likelihood of work stoppage due to legal action.

Increase "good neighbor" benefits.

grass swales, and waterways with intermittent PLANNING CONSIDERATIONS

This application is appropriate for areas which

require immediate vegetative covers, drop inlets,

Sodding can initially be more costly than

seeding, but the advantages justify the increased

initial costs:

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CONDITIONS

 Immediate erosion control, green surface, and quick use.

2. Reduced failure as compared to seed as well as the lack of weeds.

3. Can be established nearly year-round.

- Sodding is preferable to seed in waterways and swales because of the immediate protection of the channel after application. Sodding must be staked
- in concentrated flow areas (See Figure 6-6.1). Consider using sod framed around drop inlets to reduce sediments and maintaining the grade.
- CONSTRUCTION SPECIFICATIONS
- Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.

Soil Preparation

Topsoil properly applied will help guarantee a stand. Don't use topsoil recently treated with herbicides or soil sterilants. or installed according to Table 6-6.2. See

6-103

Mix fertilizer into soil surface. Fertilize based on soil tests or Table 6-6.1.

Table 6-6.1. Fertilizer Requirements for Soil Surface Application			
Fertilizer Type	Fertilizer Rate (lbs/acre)	Fertilizer Rate (lbs/sq ft)	Season
10-10-10	1000	.025	Fall

Agricultural lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.

Lay sod with tight joints and in straight lines.

Don't overlap joints. Stagger joints and do not stretch sod (See Figure 6-6.2) On slopes steeper than 3:1, sod should be anchored with pins or other approved methods. Installed sod should be rolled or tamped to provide

good contact between sod and soil.

Irrigate sod and soil to a depth of 4" immediately after installation.

Sod should not be cut or spread in extremely wet or dry weather. Irrigation should be used to supplement rainfall for a minimum of 2-3 weeks.

MATERIALS

hours of digging.

- Sod selected should be certified. Sod grown in the general area of the project is desirable. Sod should be machine cut and contain 3/4" (+ or -1/4") of soil, not including shoots or
- Sod should be cut to the desired size within + or -5%. Torn or uneven pads should be
- Sod should be cut and installed within 36
- Avoid planting when subject to frost heave or hot weather, if irrigation is not available. 5. The sod type should be shown on the plans

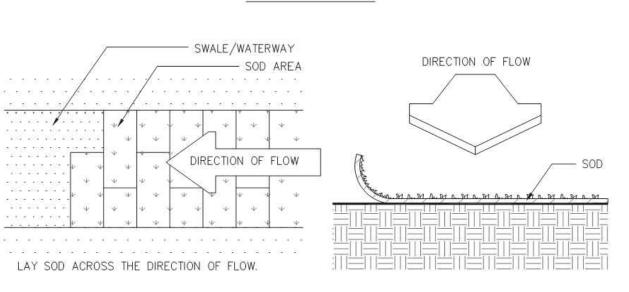
Figure 6-4.1 for your Resource Area. MAINTENANCE Re-sod areas where an adequate stand of

sod is not obtained. New sod should be mowed sparingly. Grass height should not be cut less than 2"-3" or as specified (See Figure 6-6.2). Apply one ton of agricultural lime as indicated by soil test or every 4-6 years. Fertilize grasses in accordance with soil tests or Table 6-6.3.

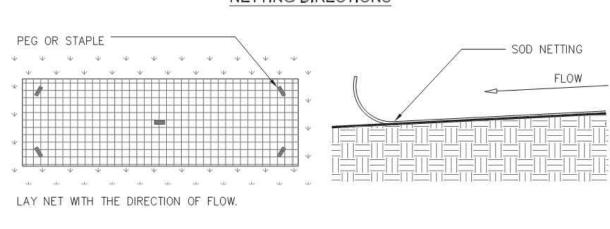
Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L,P,C P,C P,C P,C	warm weather
Bahiagrass	Pensacola	P,C	warm weather
Centipede	·=	P,C	warm weather
St. Augustine	Common Bitterblue Raleigh	С	warm weather
Zoysia	Emerald Myer	P,C	warm weather
Tall Fescue	Kentucky	M-L.P	cool

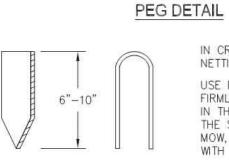
Table 6-6.3 Fertilizer Requirements for Sod					
Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitroger Top Dressing Rate (lbs./acre)	
cool	first	6-12-12	1500	50-100	
season	second	6-12-12	1000	-	
grasses	maintenance	10-10-10	400	30	
warm	first	6-12-12	1500	50-100	
season	second	6-12-12	800	50-100	
grasses	maintenance	10-10-10	400	30	

SODDED WATERWAYS SOD DIRECTIONS



NETTING DIRECTIONS





Source: Va. DSWC

Ditch checks with attached FI-Co Bags or

·Addition of granular FI-Co directly into a

·Erosion control blankets and turf reinforce-

ment mats that have been inoculated with a

"Pump and Treat" systems that use mechani-

cal mixing with a chemical treatment of a

Application rates shall conform to manufactur-

er's guidelines for application. Maintenance shall

above when turbidity levels are no longer met or

the FI-Co is used up. Bricks, blocks, socks,logs

and bags shall be maintained when sediment

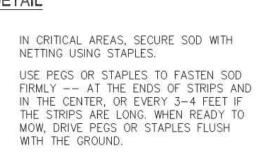
sediment accumulates on the products.

consist of reapplying FI-Co via one of means

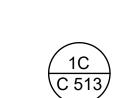
Operation and Maintenance

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Source: Va, DSWC





TREE PROTECTION







AT A 2"-3" CUTTING HEIGHT.

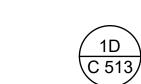
LEAVES (UP TO 1/2" THICK).

ROOT ZONE: SOIL AND ROOTS.

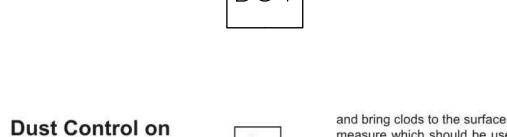
- SHOULD BE 1/2"-3/4" THICK WITH

DENSE ROOT MAT FOR STRENGTH.

THATCH: GRASS CLIPPINGS AND DEAD



1A C 513



Disturbed Areas

DEFINITION Controlling surface and air movement of dust

on construction sites, roads, and demolition sites. **PURPOSE** To prevent surface and air movement of dust

from exposed soil surfaces. To reduce the presence of airborne substances which may be harmful or injurious to human health, welfare, or safety,

or to animals or plant life. This practice is applicable to areas subject to

surface and air movement of dust where on and off-site damage may occur without treatment. **METHOD AND MATERIALS**

A. Temporary Methods

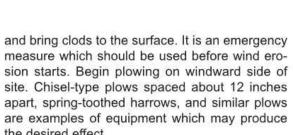
Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification Tac - Tackifiers. Resins such as Curasol or Terratack should be used according to manufacturer's recommenda-

Vegetative Cover. See specification Ds2 -Disturbed Area Stabilization (With Temporary

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers.

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Tillage. This practice is designed to roughen



Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences,

ourlap fences, crate walls, bales of hay and similar

material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

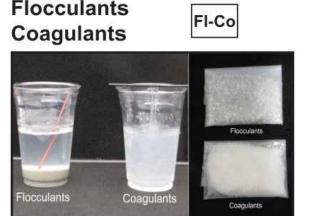
Tp - Topsoiling.

Stone. Cover surface with crushed stone or coarse gravel. See specification Cr-Construction Road Stabilization.

> Coagulation and Flocculation occur in successive order. Firstly the forces stabilizing suspended particles are neutralized allowing particles to meet (coagulate) and secondly, to form larger,

drop to the bottom of the container (vessel),

PURPOSE To settle suspended sediment, heavy metals and hydrocarbons (TSS) in runoff water from



DEFINITION Flocculants and Coagulants (FI-Co) are formulated to assist in the solids/liquid separation of suspended particles in solution. Such particles are characteristically very small and the suspended stability of such particles (colloidal complex) is due to both their small size and to the electrical charge between particles. Conditioning a solution to promote the removal of suspended particles requires chemical coagulation and/or

flocculation. A coagulant is required to help give body to the water. Coagulants neutralize the repulsive electrical charges (typically negative) surrounding particles allowing them to "stick together" creating clumps or flocs that form a small to mid-size particles (sometimes called a pin-floc). Once the pin-floc has formed, a second chemical called a flocculent is required to make even larger particles. Flocculants facilitate the agglomeration or aggregation of the coagulated particles to form larger floccules and acts as a net where it gathers up the smaller coagulated particles making a larger particle. This larger particle will slowly

GSWCC (Amended - 2013)

construction sites for water clarification.

entrapped in other BMPs. and storm drainages which feed into pre-con-

Federal and Local Laws laws governing Flocculants/Coagulants.

CRITERIA

forming a sludge.

GSWCC (Amended - 2013)

C 513

ity will usually require the addition of flocculants, polymers, polyacrylamides (PAM), chitosan and other chemicals that cause soil particles to bind together, become heavy and settle to the bottom of a sediment trap, sediment basin or become surface waters of the state. It is intended for application within construction storm water ditches

does not contain the text of the federal or local

Application rates shall conform to manufac-

forms of FI-Co shall be used. Following are examples of FI-Co applications within construction storm water ditches or drainageways which feed into sediment basins or

•FI-Co Bags or Socs that are installed directly

·Granulated FI-Co treated rock ditch checks.

wattles, or compost logs inoculated or used in conjunction with FI-Co).



"SNOW" FENCE PLAN

SOD MAINTENANCE AND INSTALLATION

SOD LAYOUT AND PREPARATION

DIRECTIONS FOR INITIAL MAINTENANCE

Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD

Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD

Figure 6-6.2

Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

AY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS

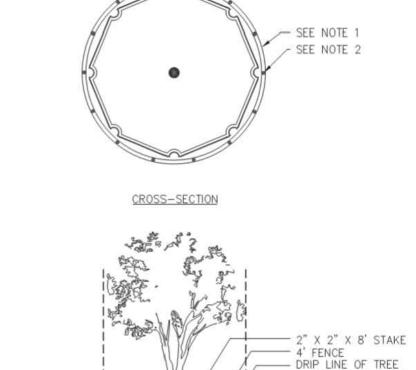
TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES

AND DO NOT OVERLAP. A SHARPENED MASON'S

ENDS AND TRIMMING PIECES.

TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE

BUTTING: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.



- INSTALL TREE PROTECTION FENCE PRIOR TO CONSTRUCTION. 2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET
- 3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS. 4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED 5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

Figure 6-38.1

ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).

 $\left(\begin{array}{c} 2 \\ \hline C 513 \end{array}\right)$

6-279

(LIMIT OF CLEARING)

site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

B. Permanent Methods Permanent Vegetation. See specification Ds3 -Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See specification

heavier flocs (flocculants).

CONDITIONS

Water clarification and the removal of turbid-This practice is not intended for application to

structed ponds or basins or other BMPs. FI-Co applications shall comply with all federal, local laws, rules or regulations governing FI-Co. The operator is responsible for securing applicable required permits, if needed. This standard

Planning Considerations

Since settling of flocculated soil particles requires very slow moving (still) water, chemical additives should never be introduced into an outfall BMP where water leaves the property or enters state waters. In all cases where chemical additives are used to reduce turbidity, it is essential to include a sediment basin or sediment trap unless using a "pump and treat" treatment

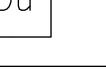
turer's guidelines for application. Only anionic

in a ditch, pipe or culvert. •FI-Co treated ditch checks (i.e. fiber rolls,

6-110

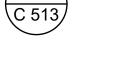
GSWCC (Amended - 2013)

MIN. 4'









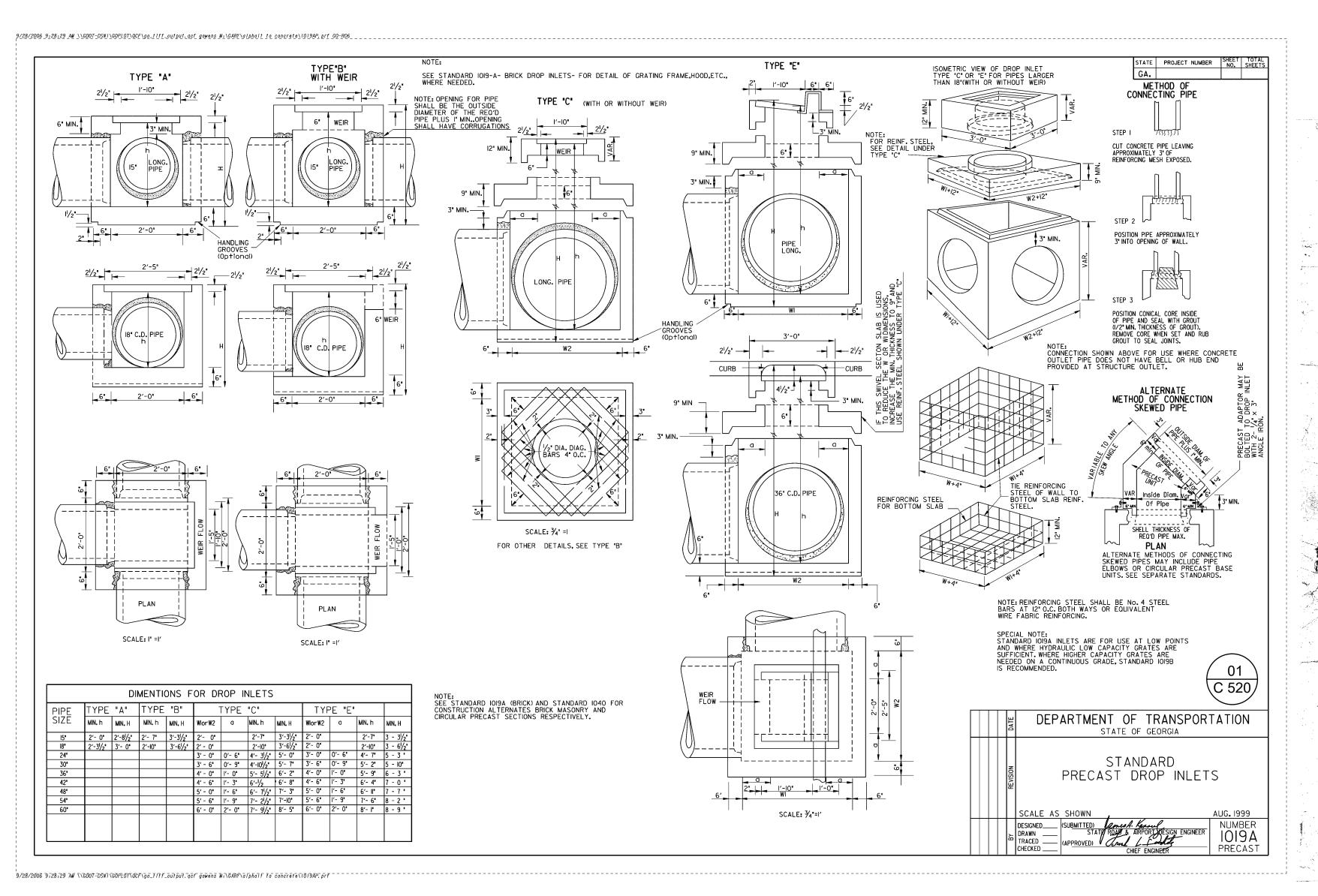
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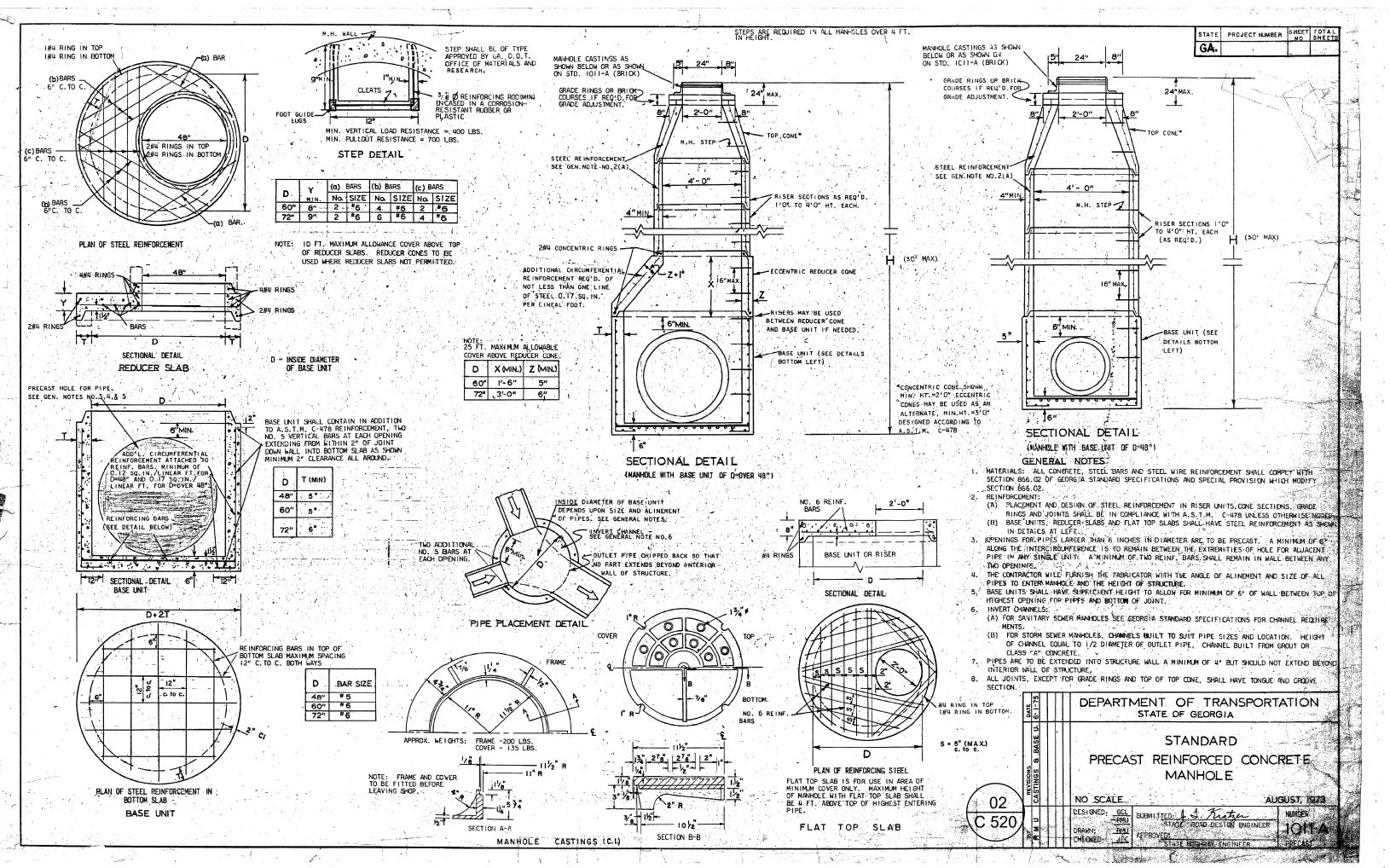


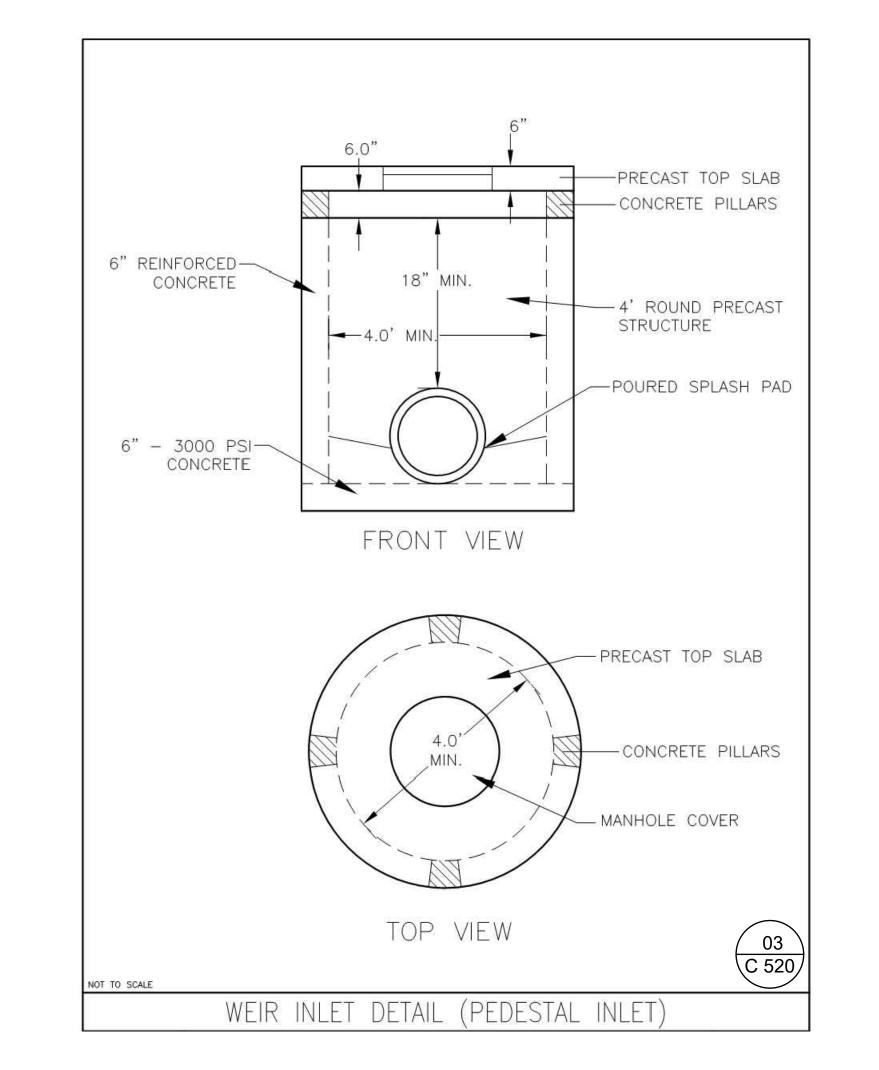


















EXPANSION LIMPKIN COUNTY SENIOR CENTE

PRINT RECORD

No.	DATE	DESCRIPTION
	01/09/2019	PERMIT / BID DOCUMENT
Dra	awn By	Checked By

 CHC
 AMH

 Date
 Job No.

 10/29/2018
 17001DG

 Sheet Title

GA D.O.T. DETAILS

Sheet No.

C-520





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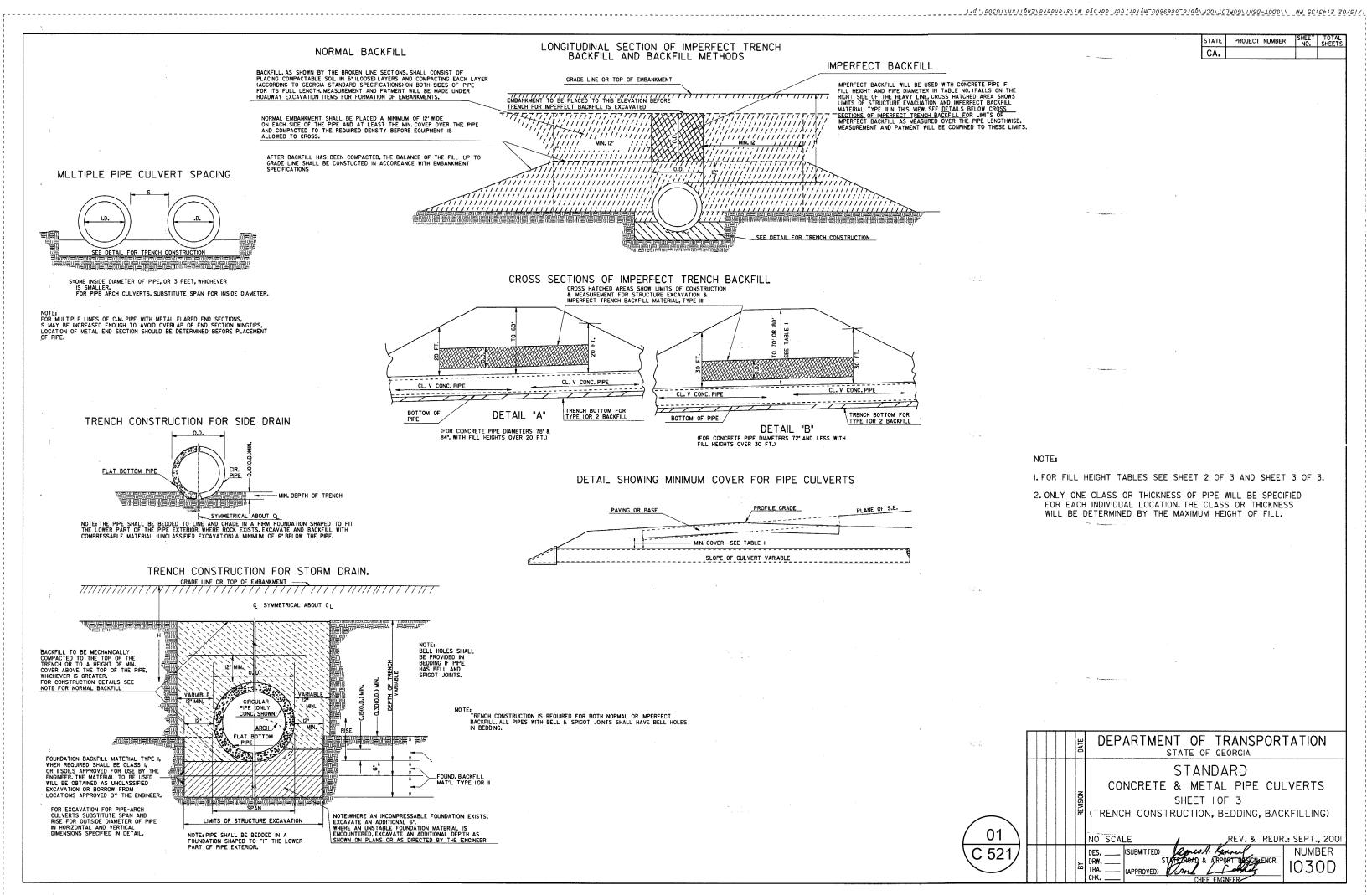
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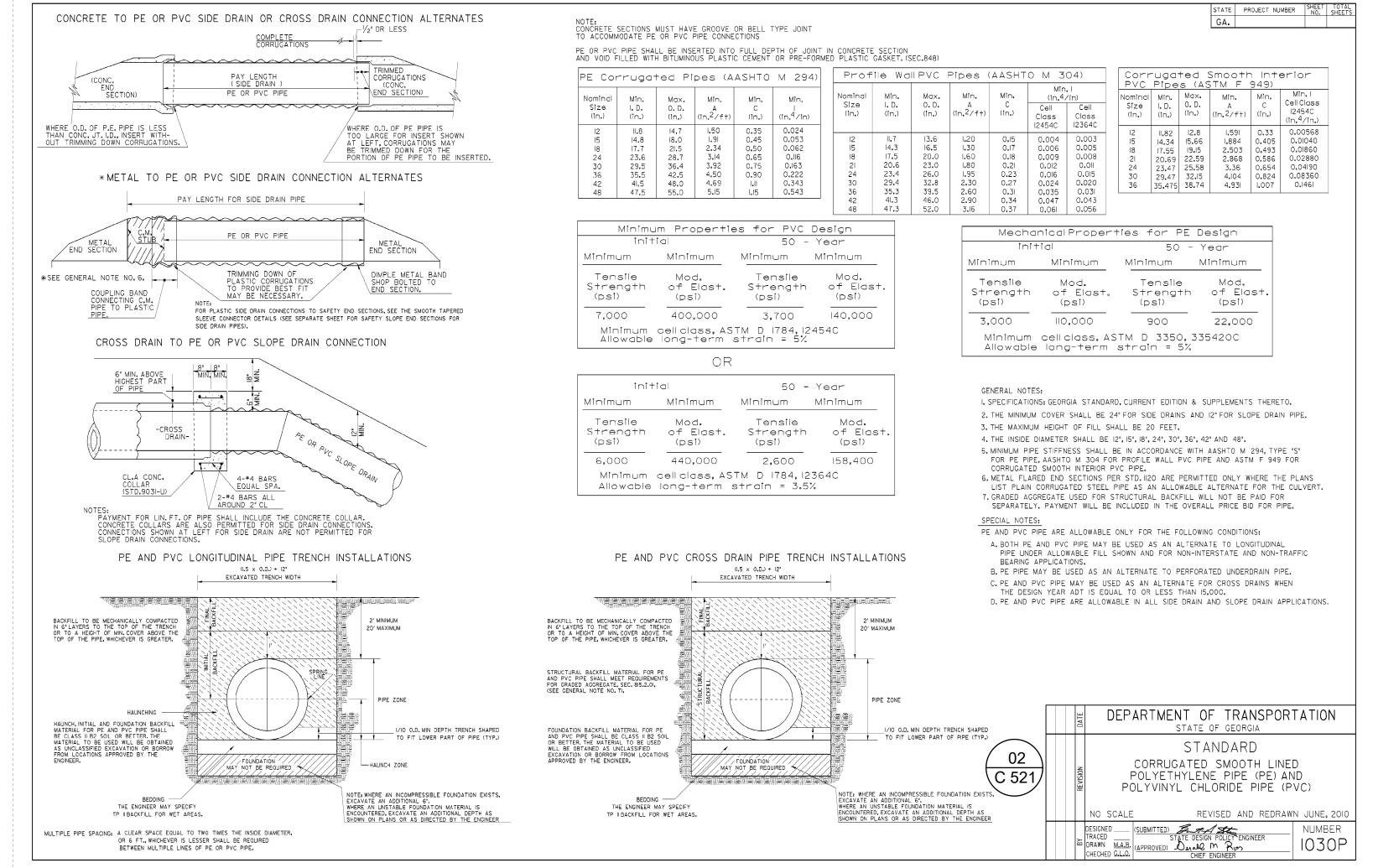
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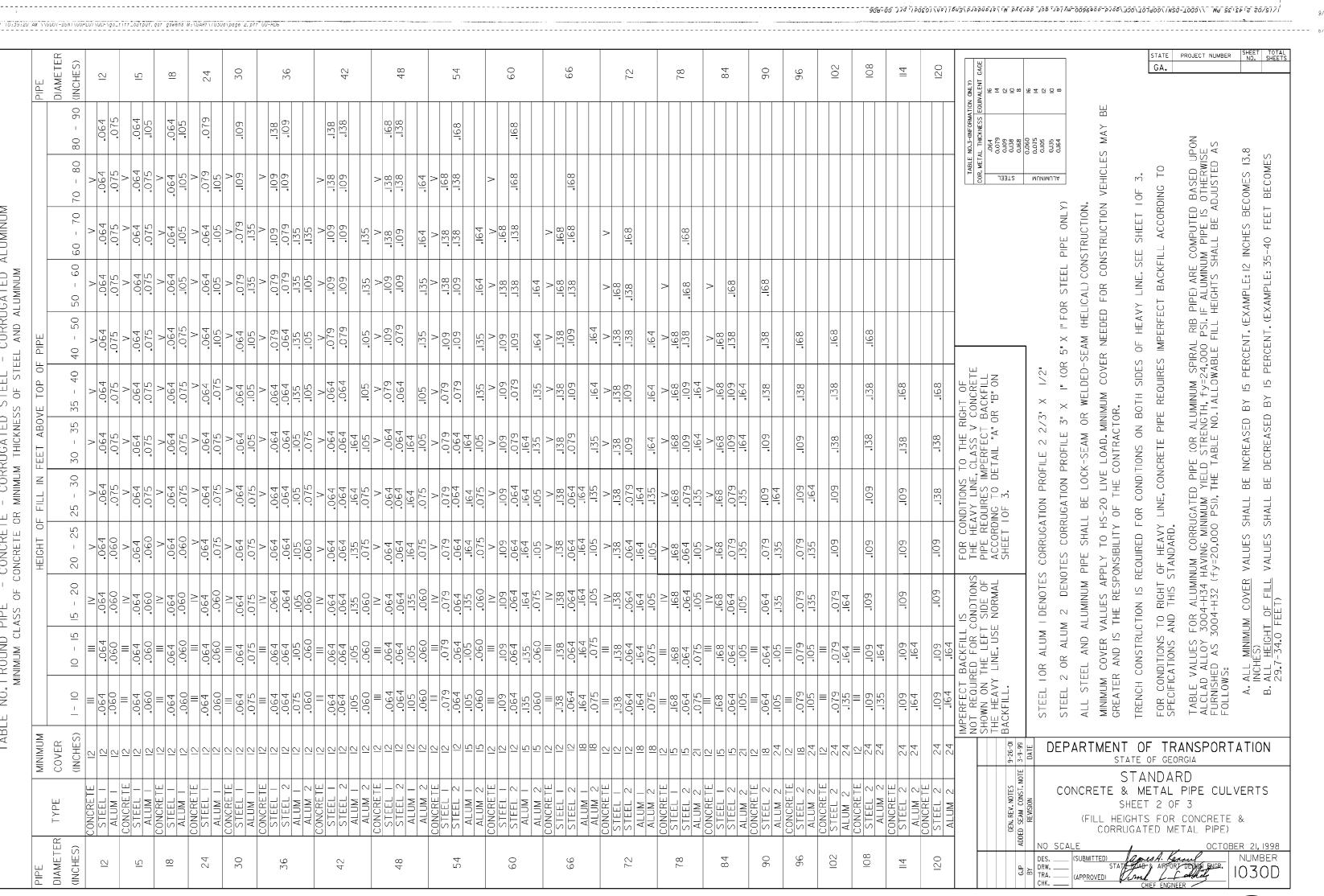
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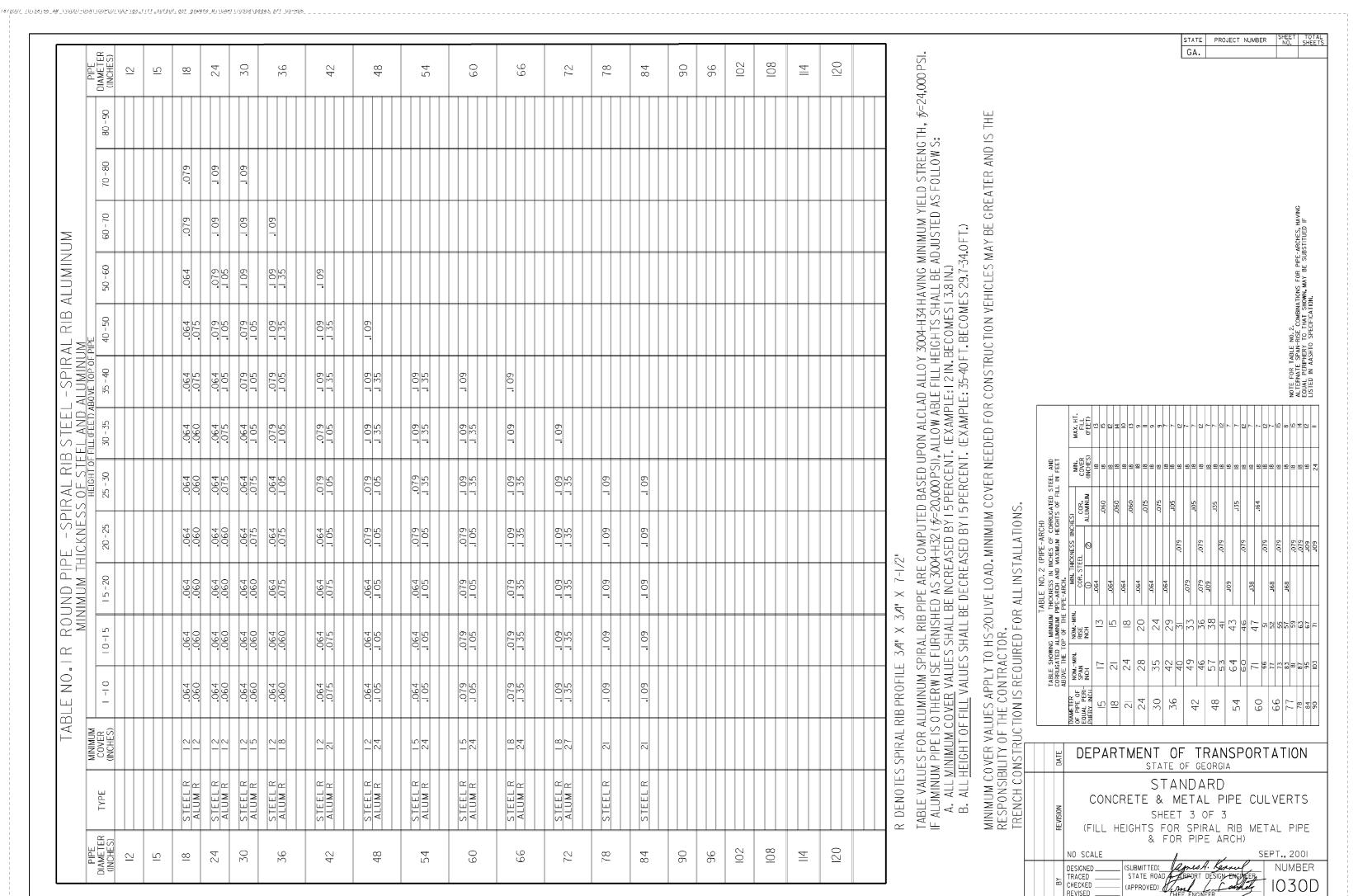
C-521

RELEASED FOR CONSTRUCTION









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<u>GENERAL</u>

- NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, DESIGN PROFESSIONAL, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
- . CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
- REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
- CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
- 5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
- 6. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.
- CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS. OPENING SIZES AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- . CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.
- 10. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
- 11. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
- 12. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
- 13. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
- CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
- 15. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE TYPICAL DETAILS UNLESS THOSE LOCATIONS ARE SPECIFICALLY DETAILED OTHERWISE.
- 16. STRUCTURAL DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR THE DESIGN OF CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN 6. BACKFILL PLACED AGAINST EXTERIOR OR RETAINING WALLS SHALL NOT EXCEED 120 PCF WEIGHT. THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

17. SUBMITTALS

- 17.1 SUBMITTALS BY THE CONTRACTOR ARE NOT A PART OF THE CONTRACT DOCUMENTS. PRIOR TO THE INITIAL SUBMITTAL, CONTRACTOR SHALL SUBMIT TO THE DESIGN PROFESSIONAL A SCHEDULE OF SUBMITTED INFORMATION.
- 17.2 SUBMITTALS SHALL BE ACCOMPANIED BY A TRANSMITTAL LETTER WITH THE FOLLOWING
- PROJECT NAME CONTRACTOR'S NAME
- DATE SUBMITTED
- DESCRIPTION OF ITEMS SUBMITTED. IDENTIFY WORK AND PRODUCT BY SPECIFICATION SECTION NUMBER OF DRAWINGS AND OTHER PERTINENT DATA.
- 17.3 CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION ON THE SUBMITTAL TO ANY DEVIATION FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL STAMP AND SIGN EACH SHEET OF SHOP DRAWINGS AND PRODUCT DATA, AND SIGN OR INITIAL EACH SAMPLE TO CERTIFY COMPLIANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS. SUBMITTALS RECEIVED WITHOUT THE CONTRACTOR'S STAMP OF REVIEW WILL BE RETURNED TO THE CONTRACTOR FOR REVIEW AND RESUBMITTAL.
- 17.4 WORK REQUIRING SHOP DRAWINGS, WHETHER CALLED FOR BY THE CONTRACT DOCUMENTS OR REQUESTED BY THE CONTRACTOR, SHALL NOT COMMENCE UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE DESIGN PROFESSIONAL. WORK MAY COMMENCE IF THE CONTRACTOR VERIFIES THE ACCURACY OF THE DESIGN PROFESSIONAL'S CORRECTIONS AND NOTATIONS AND COMPLIES WITH THEM WITHOUT EXCEPTION AND WITHOUT REQUESTING CHANGE IN CONTRACT SUM OR CONTRACT TIME AT COPY OF THE MARKED STRUCTURAL SHOP DRAWINGS 13. ALL FOOTINGS AND TURN DOWN SLAB EDGES SHALL PENETRATE TO A MINIMUM DEPTH OF 24" BELOW WITH THE DESIGN ROFESSIONAL'S REVIEW STAMP IS TO BE MAINTAINED AT THE JOB SITE.

CODE/DESIGN CRITERIA

- 1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
- INTERNATIONAL BUILDING CODE, 2012 EDITION WITH GEORGIA AMENDMENTS. 2. GRAVITY LOADS

10 PSF

5 PSF

5 PSF

5 PSF

2.1 UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

 STORAGE 125 PSF

2.2 UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

 GROUND SNOW LOAD, Pg 10 PSF

PONDING AND DRIFT EFFECTS HAVE BEEN INCLUDED IN THE DESIGN.

2.3 DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT)

 ROOFING INSULATION MISCELLANEOUS CEILING/MEP

MISCELLANEOUS

CEILING/MEP

3. WIND LOADS:

- ULTIMATE DESIGN WIND SPEED, V_{ULT} = 115 MPH NOMINAL DESIGN WIND SPEED, V_{ASD} = 90 MPH
- RISK CATEGORY: II EXPOSURE C
- INTERNAL PRESSURE COEFFICIENT = -/+0.18

SEE COMPONENT AND CLADDING DESIGN WIND PRESSURE DIAGRAM ON S-0.02.

4. EARTHQUAKE LOADS:

- RISK CATEGORY: II SEISMIC IMPORTANCE FACTOR: I = 1.0
- SHORT PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, S_S = 0.251 1 SECOND PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, S1 = 0.102 SITE CLASS D
- SHORT PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, SDs = 0.268 1 SECOND PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.163
- SEISMIC DESIGN CATEGORY: 0 BASIC SEISMIC-FORCE RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE AND
- MASONRY SHEAR WALLS AND LIGHT-FRAMED WOOD SHEAR WALLS DESIGN BASE SHEAR: 34 KIPS SEISMIC RESPONSE COEFFICIENT, Cs = 0.134
- RESPONSE MODIFICATION FACTOR, R = 2 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- UNLESS NOTED OTHERWISE CALCULATED INDIVIDUAL MEMBER DEFLECTIONS (IN INCHES) DO NOT EXCEED THE FOLLOWING:

	DE
ROOF MEMBERS:	L/36
FLOOR MEMBERS:	L/36

AD LOAD L/360

<u>LIVE LOAD</u> DEAD + LIVE LOAD L/240

- WHERE, L = SPAN LENGTH (IN INCHES) BETWEEN SUPPORTS, (FOR CANTILEVERS, L IS TWICE THE LENGTH OF THE CANTILEVER.) NOTE THAT THE TOTAL MAXIMUM CALCULATED FLOOR SYSTEM DEFECTION WILL BE THE SUM OF THE DEFLECTIONS OF THE SUPPORTED ELEMENTS IN A BAY.
- EXCEED L/600 FOR DESIGN LOADS APPLIED AFTER THE INSTALLATION OF THE MASONRY.

6. SPECIAL INSPECTIONS

- 6.1 THE STRUCTURAL TESTING/INSPECTION AGENCY, SEE SPECIFICATION SECTION 014525, WILL PERFORM SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE. MATERIALS AND WORK TO BE INSPECTED INCLUDE CONCRETE AND MASONRY CONSTRUCTION. SEE SPECIFICATION SECTION 014525 FOR A COMPLETE LIST OF WORK REQUIRING SPECIAL
- 6.2 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE ARE REQUIRED FOR STRUCTURAL COMPONENTS AND ASSEMBLIES WHICH ARE NOT FABRICATED AT THE CONSTRUCTION JOB SITE INCLUDING BUT NOT LIMITED TO WOOD ROOF TRUSSES AND MASONRY.
- 6.3 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE MAY BE WAIVED FOR ITEMS WHICH ARE PRODUCED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON 4. PROVIDE HORIZONTAL JOINT REINFORCEMENT WITH NO. 9 GAGE LONGITUDINAL WIRES AT 16" C/C REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND BY PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE WHICH STATES THAT THE FABRICATION WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
- 6.4 THE PROJECT OWNER WILL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE DURING CONSTRUCTION OF 6. PROVIDE DOVETAIL ANCHORS AT 16" C/C, UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT THE PROJECT. DOCUMENTATION THAT SUMMARIZES THE QUALIFICATION AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO 7. SUBMIT WRITTEN CONSTRUCTION PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION. THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- 6.5 APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION REPORTS TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE AND TO THE DESIGN PROFESSIONAL WHICH SECTION 032000. INDICATE THAT THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. A FINAL REPORT WHICH DOCUMENTS THE RESULTS OF THE SPECIAL INSPECTIONS PERFORMED INCLUDING CORRECTION OF ANY DISCREPANCIES IDENTIFIED WOOD DURING INSPECTION SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY CHIEF COMMERCIAL BUILDING INSPECTOR PRIOR TO CONSTRUCTION.
- 7. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

<u>FOUNDATION</u>

- 1. FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY NOVA, REPORT NUMBER 002-20186185, DATED AUGUST 7, 2018. DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT TO THOSE ASSUMED FOR DESIGN.
- ALL FOUNDATIONS SHALL BE INSTALLED UNDER THE GUIDANCE OF A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER IN THE PROJECT STATE. THE GEOTECHNICAL ENGINEER SHALL GIVE CONSIDERATION TO THE TYPE OF BUILDING AND FOUNDATION LOADS INVOLVED AS WELL AS THE REQUIREMENTS OF THESE DOCUMENTS. DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT TO THOSE ASSUMED FOR DESIGN.
- 3. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM.
- 14. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE 4. INDIVIDUAL SPREAD FOOTINGS AND CONTINUOUS FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 2000 PSF.
 - 4.1 NO FOOTINGS SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW BOTTOM OF FOOTING AND REPLACE WITH STRUCTURAL FILL.
 - 5. FOUNDATION WALLS ARE DESIGNED FOR LATERAL PRESSURES DUE TO THE FOLLOWING EQUIVALENT FLUID DENSITIES:
 - WALLS SUPPORTED AT TOP (AT-REST CONDITION):
 - WALLS FREE TO DISPLACE AT TOP (ACTIVE CONDITION): 40 PCF
 - PROOF ROLL BUILDING AREAS WITH TWO COMPLETE COVERAGES OF A LOADED DUMP-TRUCK OR SCRAPER. REPLACE SOFT AREAS WITH COMPACTED STRUCTURAL FILL AS REQUIRED BY THE
 - UNDERCUT APPROXIMATELY TWO-THIRDS OF THE BUILDING AREA BY 5 FEET, INCLUDING AN AREA EXTENDING 10 FEET OUTSIDE THE BUILDING FOOTPRINT, AND REPLACE WITH COMPACTED STRUCTURAL FILL AS REQUIRED BY THE SPECIFICATIONS. AREA OF EXCAVATION SHOULD BE FIVE FEET FROM THE EXISTING BUILDING TO PROTECT FROM UNDERMINING OR DISTURBING THE EXISTING BUILDING'S FOUNDATIONS.
 - 9. STRUCTURAL FILL SHALL CONTAIN NO ORGANIC MATERIAL AND BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. STRUCTURAL FILL UNDER SLABS AND WITHIN 10'-0" OF THE BUILDING FOOTPRINT SHALL BE PLACED IN MAXIMUM 8-INCH LIFTS AND COMPACTED TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. THE TOP 12" SUB-BASE UNDER SLABS ON GRADE SHALL BE COMPACTED TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY. ALL BACKFILL, COMPACTION AND PROOF ROLLING OPERATIONS SHALL BE OBSERVED BY AN INDEPENDENT TESTING LABORATORY. STRUCTURAL FILL SOIL DENSITY
 - 10. SLABS-ON-GRADE SHALL BE PLACED ON A 6" GRANULAR BASE, COMPACTED TO 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698, AND COVERED WITH A 10 MIL 8. PROVIDE DOUBLE TOP PLATE LAPPED AT CORNERS AND AT SPLICES (4' SPLICE). SUPPORT ENDS OF CONTINUOUSLY SEALED VAPOR BARRIER. THE BASE FOR SLABS-ON-GRADE SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO EACH PLACEMENT OF CONCRETE.
 - 11. BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR OR RETAINING WALLS UNTIL THE WALLS HAVE ACHIEVED THEIR DESIGN STRENGTH AND THEIR LATERAL SUPPORT ELEMENTS ARE INSTALLED.
 - PROVIDE ADEQUATE DRAINAGE AT BASEMENT AND RETAINING WALLS (SEE ARCHITECTURAL). 12. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.
 - FINISHED GRADE.

REINFORCEMENT

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 AND HAVE MINIMUM SIDE AND END LAPS OF 8". 3. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT.

WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND

- DETAILS IS NOT ACCEPTABLE. 4. SPLICES SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY
- . PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR
- COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
- 6. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:
- 6.1 CONCRETE REINFORCEMENT COVER
- EXPOSED TO EARTH OR WEATHER: UNFORMED CAST AGAINST EARTH 3" CLEAR FORMED #6 AND LARGER 2" CLEAR
- 1-1/2" CLEAR FORMED #5 AND SMALLER
- NOT EXPOSED TO EARTH OR WEATHER: WALLS
- 1" CLEAR 3/4" CLEAR
- 6.2 MASONRY REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS NOTED
- 7. REINFORCING STEEL DESIGNATED CONTINUOUS SHALL BE LAPPED AS FOLLOWS:
 - CONCRETE REINFORCEMENT: CLASS B TENSION LAP
- MASONRY REINFORCEMENT: 48 BAR DIAMETERS 8. ADHESIVE FOR REINFORCING DOWELS IN EXISTING CONCRETE SHALL CONFORM TO ASTM C881-02. TYPE IV. GRADE 3. CLASS A. B. & C EXCEPT GEL TIMES AND EPOXY CONTENT. ADHESIVE SHALL CONSIST OF A TWO COMPONENT ADHESIVE SYSTEM CONTAINED IN SIDE BY SIDE PACKAGING CONNECTEED TO A MIXING NOZZLE WHICH THOROUGHLY MIXES THE COMPONENTS AS IT IS INJECTED INTO THE HOLE. ADHESIVE SHALL HAVE PASSED ICC EVALUATION SERVICES, INC (ICC-ES) ACCEPTANCE CRITERIA 308 FOR LONG TERM CREEP. REINFORCING INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 308 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS, UNLESS NOTED
- OTHERWISE. ALL DOWELS AND TERMINATING BARS SHALL HAVE A STANDARD 90 DEGREE HOOK.
- 10. ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS.

- 1. CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
- 2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH: 2.1 NORMAL WEIGHT STRUCTURAL CONCRETE:

3000 PSI

4000 PSI

4500 PSI

- FOOTINGS SLABS-ON-GRADE FOUNDATION WALLS
- THE CALCULATED DEFLECTION FOR INDIVIDUAL MEMBERS SUPPORTING MASONRY DO NOT CROSSING UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DOCUMENTS, ALL PIPES AND DUCTS SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE STRUCTURAL DOCUMENTS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
 - . REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
 - 5. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL

CONCRETE MASONRY

- 1. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF CONCRETE MASONRY SHALL BE F'M = 1500 PSI.
- 2. MORTAR SHALL COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY AND SHALL BE OF THE FOLLOWING TYPE:
 - TYPE M WALLS BELOW GRADE BEARING WALLS TYPE M OR S
- CONCRETE MASONRY UNITS SHALL BE GROUTED WITH 2500 PSI COARSE GROUT AS SHOWN IN THE STRUCTURAL DOCUMENTS. GROUT FOR REINFORCED AND NONREINFORCED MASONRY SHALL CONFORM TO ASTM C476.
- VERTICALLY, UNLESS NOTED OTHERWISE. PROVIDE SPECIAL ACCESSORIES FOR CORNERS, INTERSECTIONS, ETC.
- PROVIDE CONTROL JOINTS IN ALL CONCRETE MASONRY WALLS AT LOCATIONS APPROVED BY THE DESIGN PROFESSIONAL AT A MAXIMUM SPACING OF 3 TIMES THE WALL HEIGHT OR 40'-0", WHICHEVER
- CONCRETE SURFACES.
- 8. MINIMUM VERTICAL WALL REINFORCEMENT SHALL BE #5@32" C/C, UNLESS NOTED OTHERWISE.

1. WOOD FRAMING SHALL BE SOUTHERN PINE, NO. 2 K.D. (15% MAX. MOISTURE CONTENT) OR

EQUIVALENT. MINIMUM ALLOWABLE BENDING STRESS SHALL BE PER 2012 NDS.

9. SUBMIT SHOP DRAWINGS FOR MASONRY REINFORCEMENT IN ACCORDANCE WITH SPECIFICATION

- 2. PARALLAM PARALLEL STRAND LUMBER (PSL) SHALL HAVE A MINIMUM ALLOWABLE BENDING STRESS
- OF 2,900 PSI AND A MODULUS OF ELASTICITY OF 2,000,000 PSI. 3. WOOD TRUSSES SHALL BE CAPABLE OF SUPPORTING THE SUPERIMPOSED LOADS AS GIVEN IN THE CONTRACT DOCUMENTS.
- DESIGN OF WOOD TRUSSES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, AND SUPPORT REACTIONS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO TRUSS CONFIGURATION, AND THE CONTRACTOR'S INTERPRETATION OF DESIGN LOADS AND DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF THE TRUSSES OR TRUSS CONNECTIONS NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS.
- 4.1 ALL HARDWARE REQUIRED FOR CONNECTIONS BETWEEN PRE-ENGINEERED TRUSSES SHALL BE DESIGNED BY AND SPECIFIED BY THE TRUSS DESIGN ENGINEER.
- 4.2 ALL PRE-ENGINEERED METAL PLATE CONNECTED WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE'S "HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91" AND "BUILDING COMPONENT SAFETY INFORMATION BOOKLET, BCSA 1-03" AND RELATED SHEETS.
- 4.3 ALL PRE-ENGINEERED TRUSS SHOP DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE DURING THE TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THEY HAVE BEEN REVIEWED BY THE PROJECT DESIGN PROFESSIONAL OF RECORD.
- 4.4 TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND THE DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES PUBLISHED BY THE TRUSS JOIST INSTITUTE, LATEST EDITION FOR THE FOLLOWING LOADS. CONNECTIONS BETWEEN TRUSSES SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS ENGINEER. TRUSSES SHALL HAVE A MINIMUM NOMINAL BEARING LENGTH OF 4 INCHES (3 1/2" ACTUAL) CONCENTRATED MECHANICAL/ELECTRICAL LOADS: SEE PLANS BOTTOM CHORD OF
- TRUSSED SHALL BE A MINIMUM OF 2"x6" NOMINAL LUMBER. 4.5 TRUSS LOADING (IN ADDITION TO SELF WEIGHT). SEE TRUSS DIAGRAMS FOR ADDITIONAL

INI OKWATION.		
TOP CHORD:	DEAD LOAD: 20 PSF	<u>LIVE LOAD:</u> 20 PSF
BOTTOM CHORD:	10 PSF	-

LAPS DIRECTLY OVER A VERTICAL LOAD BEARING STUD.

PROVIDE ONE LAYER ON EACH SIDE OF WALL.

- ERECTION AND TEMPORARY BRACING OF PREFABRICATED WOOD TRUSSES SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE TRUSS MANUFACTURER AND THE TRUSS
- PLATE INSTITUTE'S "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS". 6. CONNECTIONS FOR STRUCTURAL TIMBER SHALL BE GALVANIZED STRONG-TIE CONNECTORS BY THE
- SIMPSON COMPANY OR APPROVED EQUAL. 7. WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE PRESSURE-
- TREATED SOUTHERN PINE. USE GALVANIZED NAILS IN PRESSURE-TREATED WOOD.
- ROOF AND WALL SHEATHING SHALL BE PROVIDED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION (APA). THE MINIMUM THICKNESSES WHICH FOLLOW SHALL BE INCREASED AS REQUIRED TO SATISFY ARCHITECTURAL REQUIREMENTS.
- 9.1 PLYWOOD DIAPHRAGMS SHALL BE EITHER STRUCTURAL I OR II SOUTHERN PINE PLYWOOD WITH THICKNESS AS NOTED IN THE STRUCTURAL DOCUMENTS. PLYWOOD SHALL CONFORM TO THE
- REQUIREMENTS OF THE BUILDING CODE. 9.2 ROOF SHEATHING SHALL BE APA RATED SHEATHING. EXPOSURE 1, 48"x96", 3/4" 32/16 PLYWOOD. SHEATHING SHALL BE TONGUE AND GROOVE OR BE INSTALLED WITH PANEL CLIPS IN ACCORDANCE WITH APA RECOMMENDATIONS. WHERE ALLOWABLE SPANS ARE EXCEEDED AT ROOF SLOPE TRANSITIONS, PROVIDE SPECIALLY DESIGNED SUPPLEMENTAL MEMBERS AS REQUIRED. SHEATHING SHALL BE INSTALLED WITH THE LONG EDGE ACROSS A MINIMUM OF THREE SUPPORTING MEMBERS. SUPPORT AND STAGGER EDGES OF SHEATHING PARALLEL TO SUPPORTING MEMBER. PROVIDE CONTINUOUS BLOCKING AT PERIMETER OF EACH DIAPHRAGM PLANE (INCLUDING ROOF SLOPE TRANSITIONS) AND AROUND OPENINGS. FASTEN SHEATHING WITH 8d NAILS AT 6" OC AT SUPPORTED EDGES UNO AND AT 12" OC AT INTERMEDIATE SUPPORTS. AN 1/8" GAP SHALL BE LEFT BETWEEN ADJACENT PANELS. PROTECT EDGES AGAINST EXPOSURE TO WEATHER OR USE EXTERIOR GRADE SHEATHING. COVER SHEATHING AS SOON AS POSSIBLE WITH
- PRIOR TO ROOFING INSTALLATION. 9.3 WALL SHEATHING SHALL BE APA RATED SHEATHING, EXPOSURE 1, 48"x96", 5/8" 32/16 PLYWOOD SHEATHING WITH CONTINUOUSLY SUPPORTED EDGES. AN 1/8" GAP SHALL BE LEFT BETWEEN ADJACENT PANELS. PROVIDE ONE LAYER ON ONE SIDE OF WALL UNLESS INDICATED ON PLAN TO

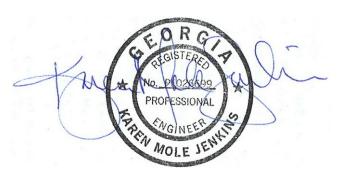
ROOFING FELT OR SHINGLE UNDERLAYMENT FOR PROTECTION AGAINST EXCESSIVE MOISTURE

- 9.4 FASTEN SHEATHING WITH 8d NAILS @ 6" OC AT PANEL EDGES AND @ 12" OC AT INTERMEDIATE SUPPORTS. SEE SCHEDULE FOR SHEAR WALL SHEATHING FASTENERS.
- 9.5 FLOOR SHEATHING SHALL BE APA RATED STURD-I-FLOOR, EXPOSURE I, 48"x96", 3/4" THICK TONGUE AND GROOVE PLYWOOD. FASTEN ALL PANELS WITH 8d NAILS @, 6" OC AT PANELS EDGE SUPPORTS AND 12" OC AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANELS SHALL BE APA GLUED TO SUPPORTS AND AT TONGUE AND GROOVE JOINTS WITH ADHESIVE CONFORMING TO PERFORMANCE SPECIFICATION APA AFG-01. AN 1/8" GAP SHALL BE LEFT BETWEEN ADJACENT PANELS AND THE END JOINTS SHALL BE SUPPORTED AND STAGGERED. SHEATHING SHALL BE INSTALLED WITH THE LONG EDGE ACROSS A MINIMUM OF THREE SUPPORTING MEMBERS. PROVIDE
- 10. FASTENING SCHEDULE SHALL BE IN ACCORDANCE WITH TABLE 2304.9.1 IN THE INTERNATIONAL

CONTINUOUS BLOCKING AT PERIMETER OF THE DIAPHRAGM PLANE AND AROUND OPENINGS.

BUILDING CODE, 2012 EDITION, UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION DOCUMENTS. 11. PROVIDE WOOD BLOCKING AT 8'-0" OC MAX AT JOISTS AND 4'-0" O.C. AT WALL STUDS.





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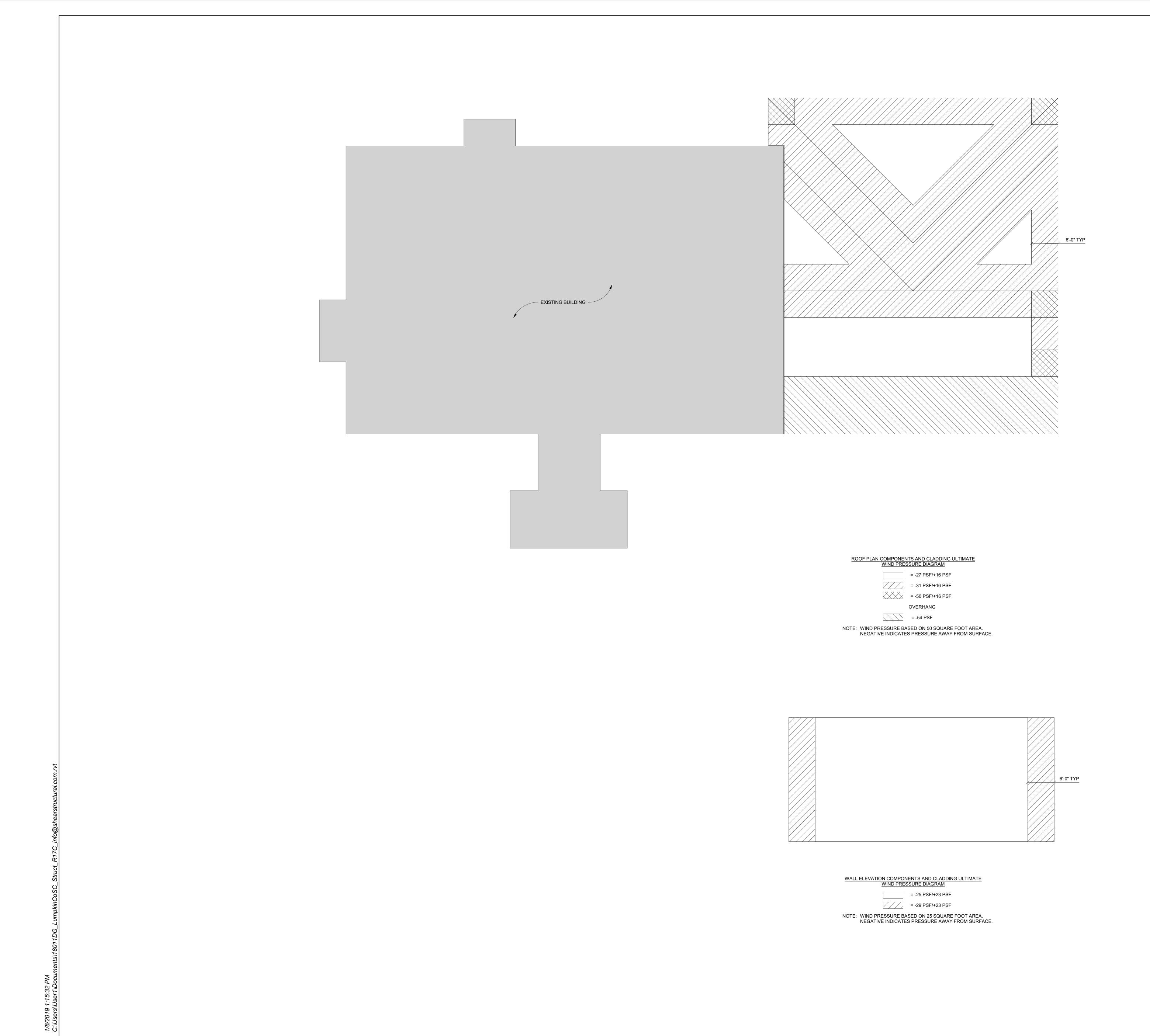
GENERAL NOTES

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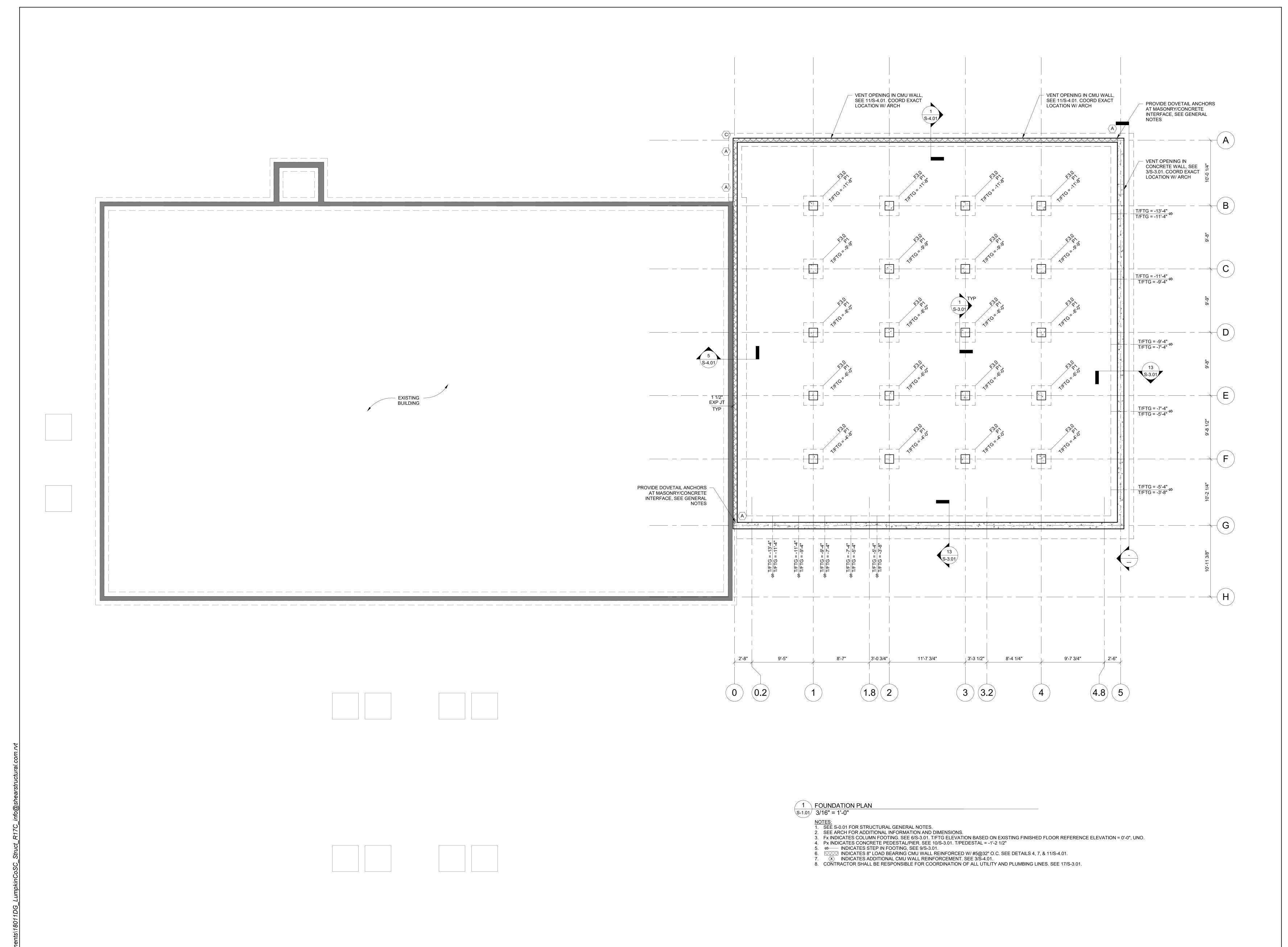
COMPONENTS &

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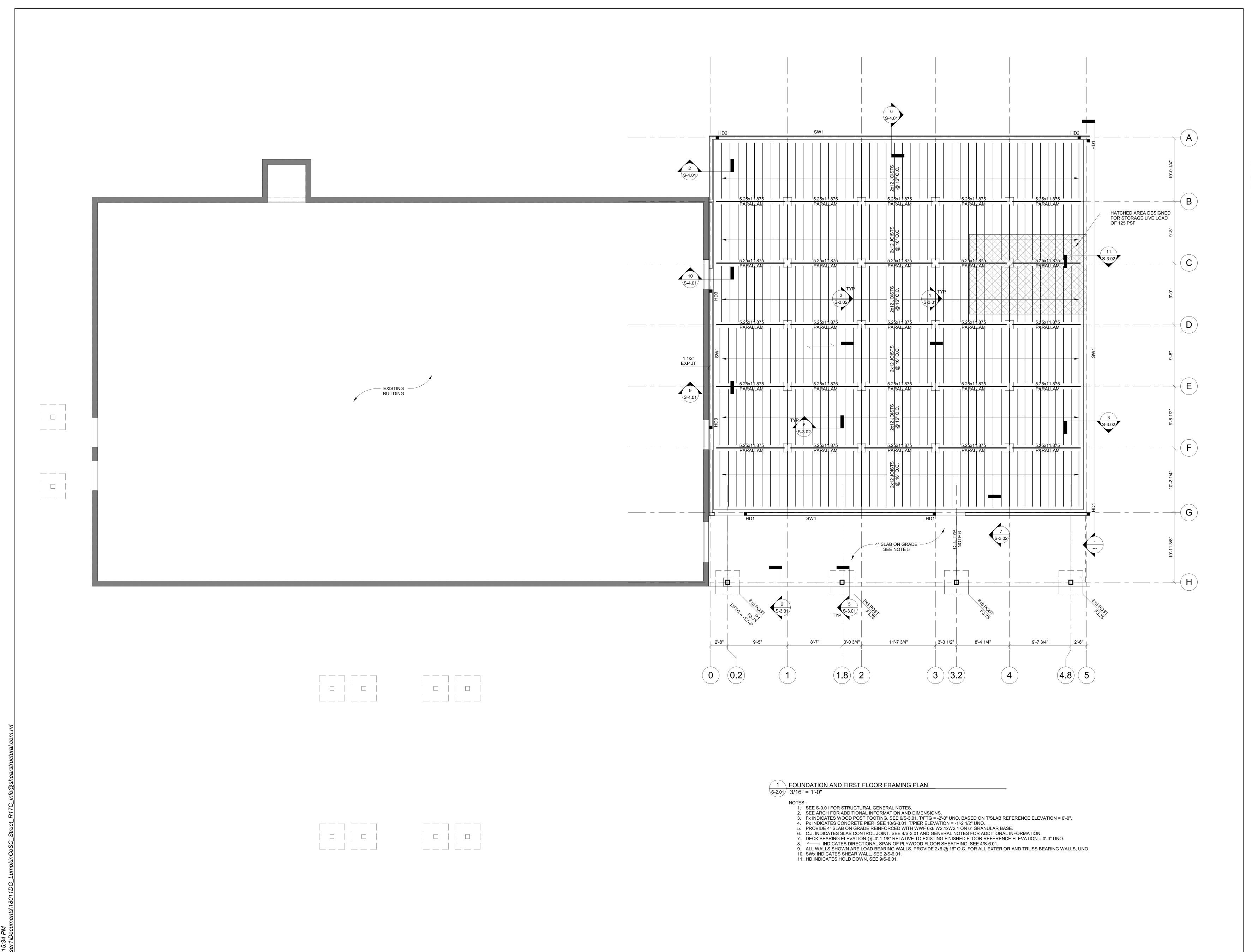
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FOUNDATION PLAN

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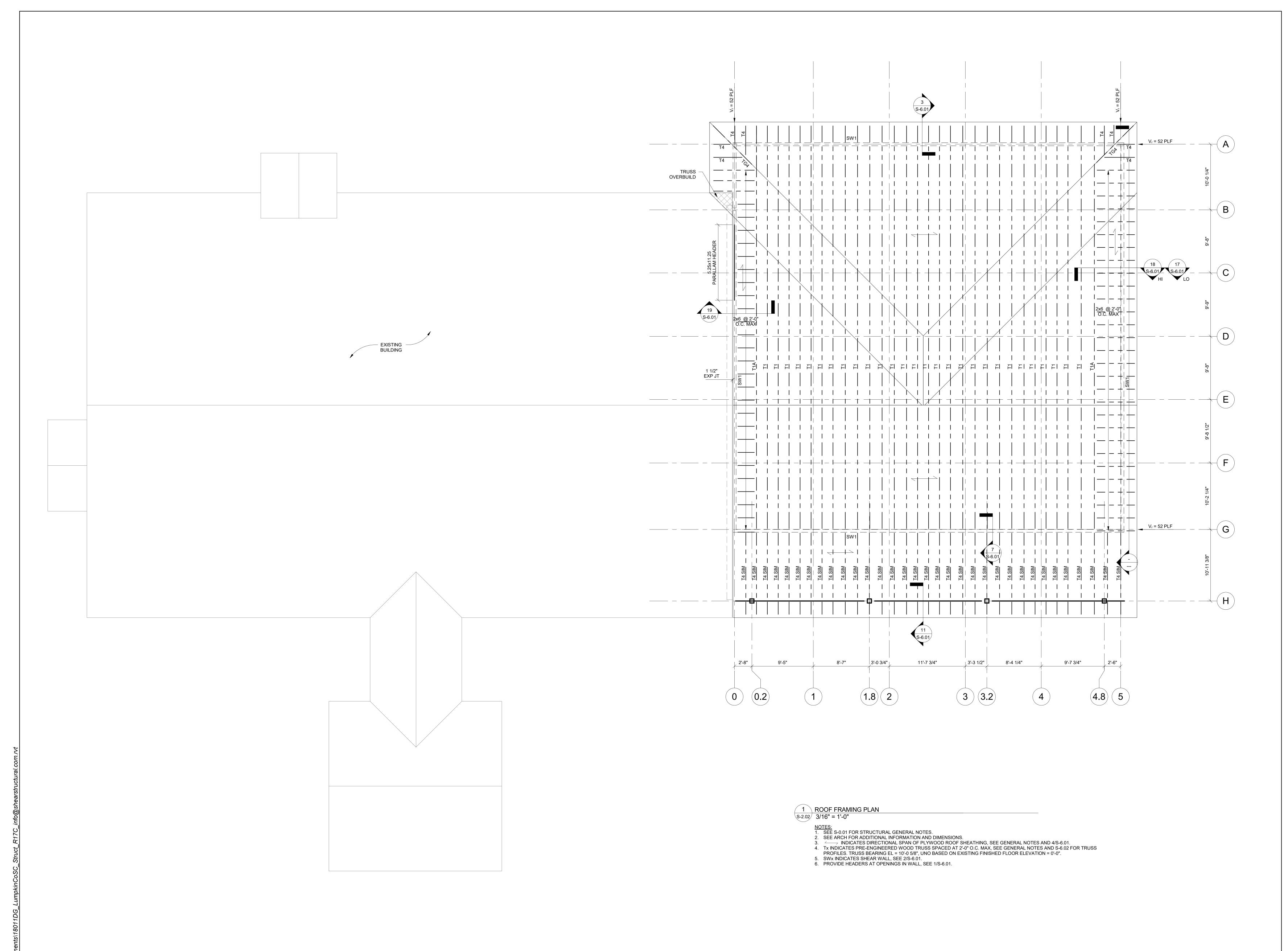
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FIRST FLOOR FRAMING PLAN

Sheet No.

S-2.01







STRUCTURAL

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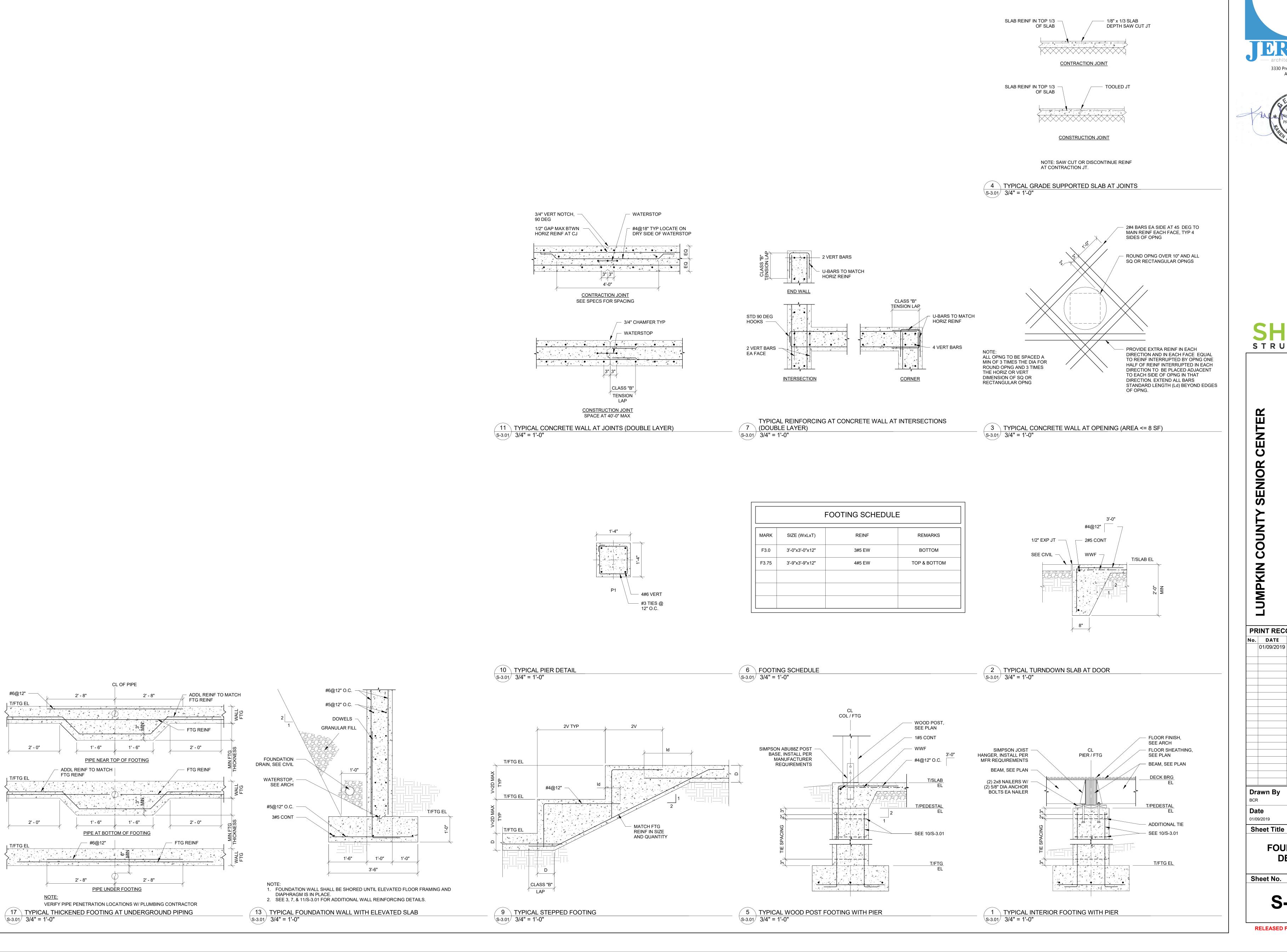
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ROOF FRAMING

Sheet Title

PLAN

Sheet No.









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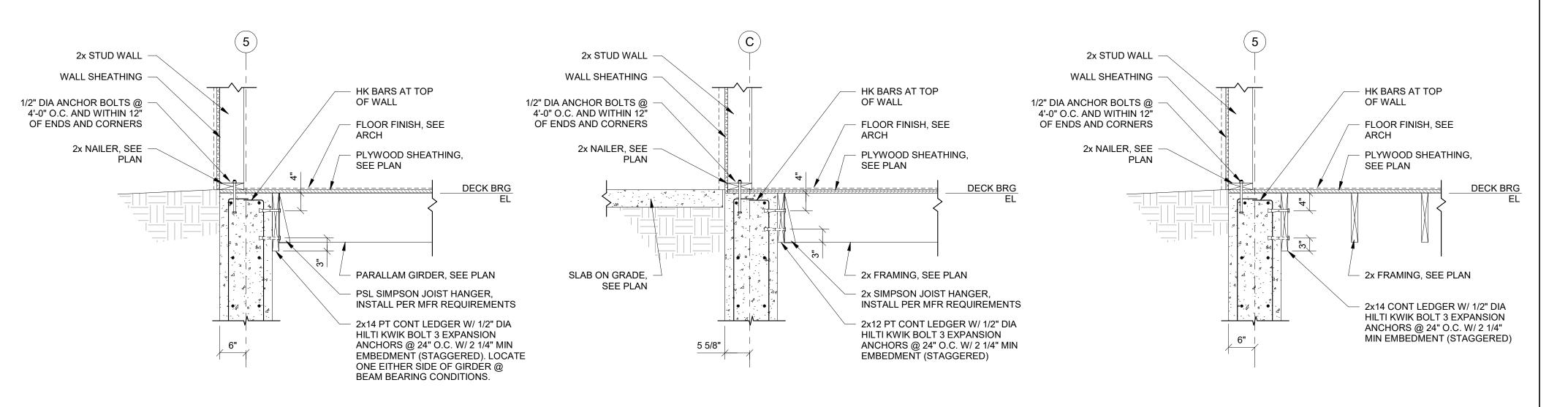
FOUNDATION DETAILS

Sheet No.

S-3.01







FLOOR FINISH, SEE

PLYWOOD SHEATHING, SEE PLAN

2x FRAMING, SEE PLAN

TYPICAL SECTION THRU DECK BEARING AT CONCRETE WALL PERPENDICULAR

S-3.02 3/4" = 1'-0"

11 TYPICAL SECTION THRU BEAM BEARING AT CONCRETE WALL s-3.02 3/4" = 1'-0"

FLOOR FINISH,SEE ARCH SIMPSON JOIST — HANGER, INSTALL PER - PLYWOOD SHEATHING, CL PIER / FTG SEE PLAN MFR REQUIREMENTS - BEAM, SEE PLAN BEAM, SEE PLAN -

TYPICAL SECTION THRU DECK BEARING AT CONCRETE WALL -

3 PARALLEL s-3.02 3/4" = 1'-0"

6 TYPICAL SECTION THRU FLOOR FRAMING - PARALLEL 8-3.02 3/4" = 1'-0"

2 TYPICAL SECTION THRU FLOOR FRAMING - PERPENDICULAR s-3.02 3/4" = 1'-0"

STRUCTURAL

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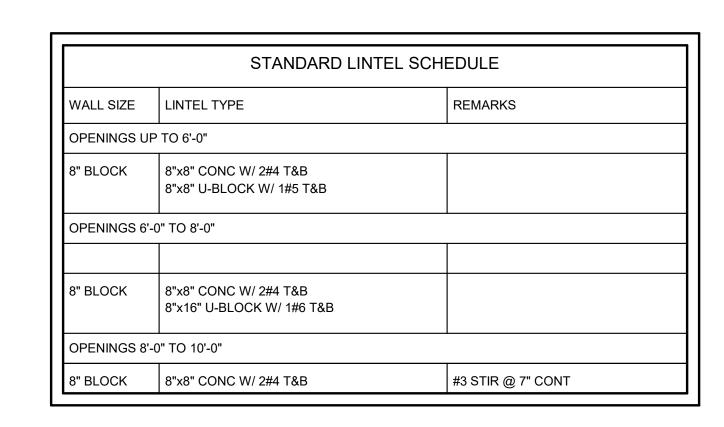
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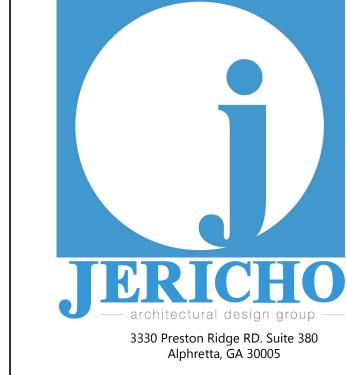
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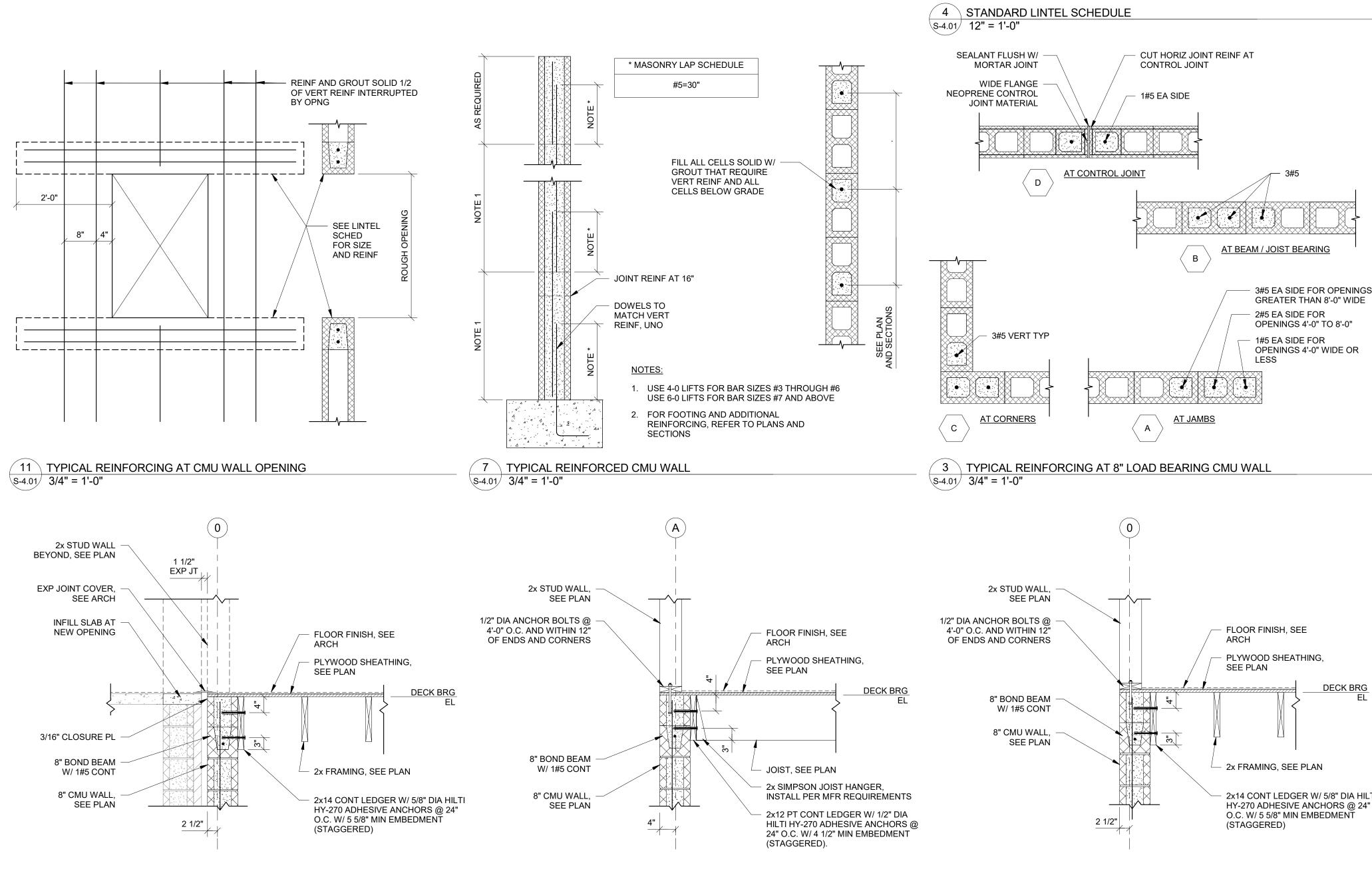
DETAILS Sheet No.







STRUCTURAL

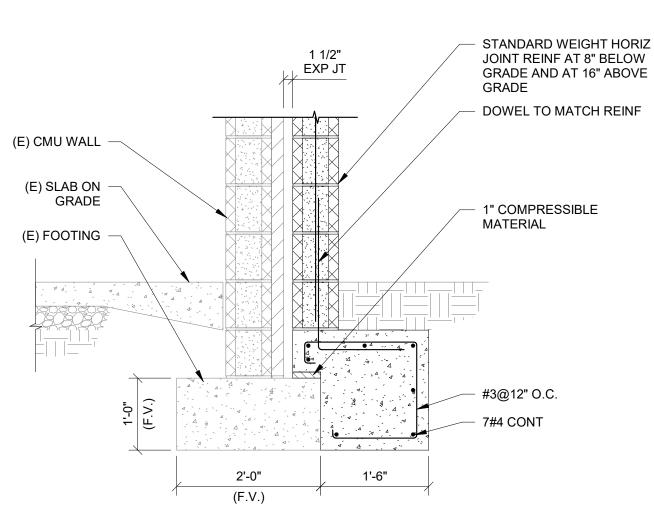


 2x14 CONT LEDGER W/ 5/8" DIA HILTI HY-270 ADHESIVE ANCHORS @ 24" PRINT RECORD No. DATE 01/09/2019 PERMIT/BID 2 SECTION THRU DECK BEARING AT CMU WALL - PARALLEL s-4.01 3/4" = 1'-0" - STANDARD WEIGHT HORIZ JOINT REINF AT 8" BELOW GRADE AND AT 16" ABOVE CMU WALL -DOWEL TO MATCH -VERT WALL REINF ALTERNATE HOOKS

2x STUD WALL BEYOND, SEE PLAN EXP JOINT COVER, SEE ARCH INFILL SLAB AT **NEW OPENING** FLOOR FINISH, SEE PLYWOOD SHEATHING, SEE PLAN DECK BRG 3/16" CLOSURE PL 8" BOND BEAM W/ 1#5 CONT PARALLAM GIRDER, SEE PLAN PSL SIMPSON JOIST HANGER,
 INSTALL PER MFR REQUIREMENTS 8" CMU WALL, SEE PLAN 2x14 PT CONT LEDGER W/ 5/8" DIA 2 1/2" HILTI HY-270 ADHESIVE ANCHORS @ 24" O.C. W/ 5 5/8" MIN EMBEDMENT (STAGGERED). LOCATE ONE EITHER SIDE OF GIRDER @ BEAM BEARING CONDITIONS (MIN 8" GAGE).

10 SECTION THRU DECK BEARING AT EXPANSION JOINT - PARALLEL S-4.01 3/4" = 1'-0"

9 SECTION THRU BEAM BEARING AT CMU WALL 3/4" = 1'-0"



6 SECTION THRU DECK BEARING AT CMU WALL - PERPENDICULAR

s-4.01 3/4" = 1'-0"

5 TYPICAL EXTERIOR 8" CMU WALL FOOTING AT EXPANSION JOINT S-4.01 3/4" = 1'-0"

1 TYPICAL EXTERIOR 8" CMU WALL FOOTING S-4.01 3/4" = 1'-0"

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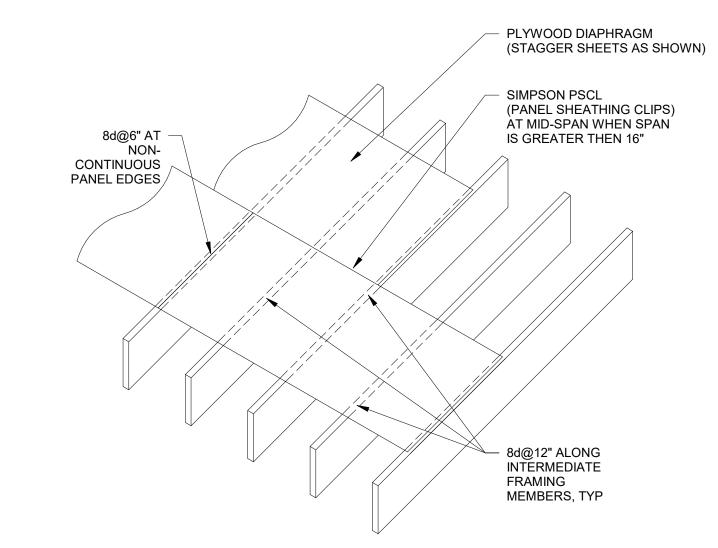
MASONRY DETAILS

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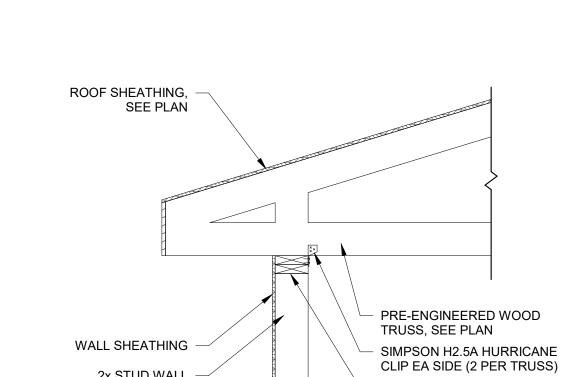
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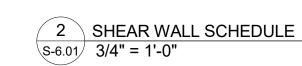




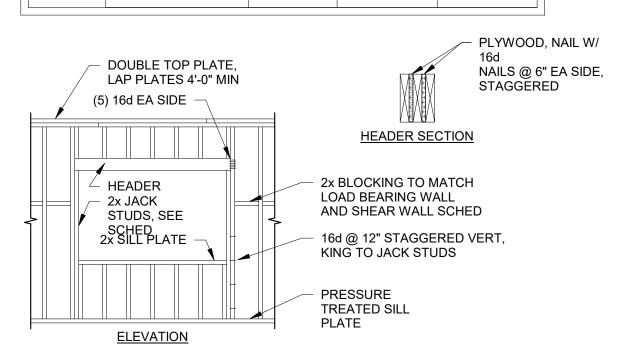
	SHEAR \	WALL SCHEDULE	
MARK	SHEATHING	ATTACHMENT	STUD QTY AT WALL ENDS (NOTE 1)
SW1	ONE SIDE 5/8" APA RATED SHEATHING	8d NAIL @ 6" AT PANEL EDGE AND 12" AT INTERMEDIATE SUPPORTS	(2) 2x6

1. SEE 5/S-6.01 & 9/S-6.01 FOR ADDITIONAL INFORMATION.

3 TRUSS BEARING SECTION AT EDGE OF ROOF AT STUD WALL S-6.01 3/4" = 1'-0"



HEADER SCHEDULE				
LEVEL	OPENING SIZE	HEADER SIZE	# OF KING STUDS	# OF JACK STUDS
GROUND TO ROOF	LESS THAN 4'-0"	(3) 2x6	1	1
	4'-0" - 6'-0"	(3) 2x10	2	2
	6'-0" - 9'-0"	3.5x9.25 PARALLAM	2	2
	GREATER THAN 9'-0"	SEE PLAN	SEE PLAN	SEE PLAN



1 TYPICAL LOAD BEARING WALL HEADER SECTION AND SCHEDULE S-6.01 3/4" = 1'-0"

SIMPSON JOIST HANGER SIMPSON STRAP PLATE 2x6 OUTRIGGER @ 24" ROOF SHEATHING, CONTINUOUS OVER SEE PLAN STUD WALL - SOLID 2x6 BLOCKING @ 4'-0" O.C. 2 MAX WOOD X-BRACING @ 4'-0" O.C. (TYP) — WOOD ROOF TRUSSES W/ 2x6 TOP CHORD, SEE PLAN

SIMPSON JOIST HANGER

SIMPSON STRAP PLATE

ROOF SHEATHING, SEE PLAN

- SOLID 2x6 BLOCKING

WOOD X-BRACING @ 4'-0" O.C. (TYP)

WOOD ROOF TRUSSES

W/ 2x6 TOP CHORD, SEE PLAN

WOOD X-BRACING @ 4'-0" O.C. (TYP)

WOOD ROOF TRUSSES

W/ 2x6 TOP CHORD,

SOLID 2x6 BLOCKING@ 4'-0" O.C.

SEE PLAN

@ 4'-0" O.C.

CUT EXISTING -SHEATHING BACK TO

FACE OF (E) WALL.

PROVIDE CONT 2x -

2x SOLID BLOCKING -BTWN OUTRIGGERS

DOUBLE 2x TOP

SIMPSON H2.5A -

WALL SHEATHING -

2x SOLID BLOCKING BTWN OUTRIGGERS

SIMPSON H2.5A HURRICANE CLIP EA OUTRIGGER

WALL SHEATHING

2x SOLID BLOCKING BETWEEN WALL STUDS

(2) 2x SOLID BLOCKING BETWEEN WALL STUDS

WALL SHEATHING

2x STUD WALL

2x STUD WALL

DOUBLE 2x TOP

PLATE

19 EDGE OF ROOF AT GABLE END AT EXPANSION JOINT S-6.01 3/4" = 1'-0"

18 EDGE OF ROOF AT GABLE END S-6.01 3/4" = 1'-0"

17 STUD WALL BRACING AT GABLE END S-6.01 3/4" = 1'-0"

2x STUD WALL -

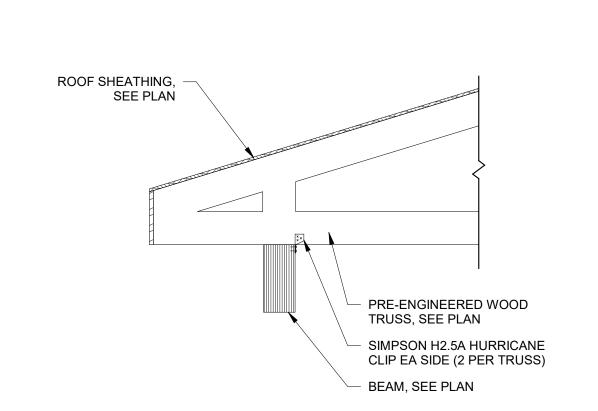
2x6 OUTRIGGER @ 24" CONTINUOUS OVER STUD WALL

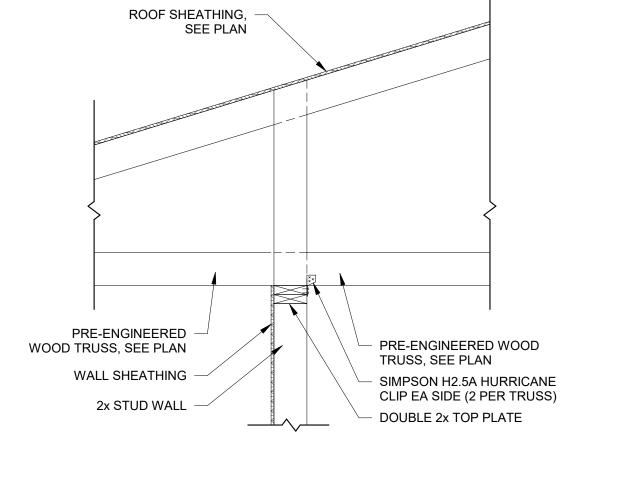
OUTRIGGER

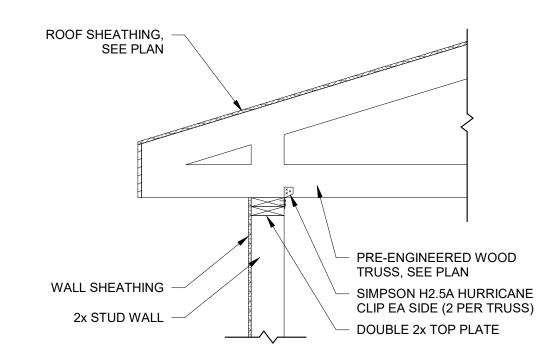
HURRICANE CLIP EA

PLATE

RIM BOARD







11 TRUSS BEARING SECTION AT WOOD BEAM 3/4" = 1'-0"

7 TRUSS BEARING SECTION AT PORCH FRAMING S-6.01 3/4" = 1'-0"

E ANCHOR	
aa.=./a	

SHEAR WALL SHEATHING,
 SEE SHEAR WALL SCHED
 AND SHEAR WALL LAYOUT

SHEAR ANCHORS PLACED BETWEEN SHEAR WALL

CONCRETE OR CMU
 FOUNDATION WALL

WALL STUD

HOLD DOWN SCHEDULE				
MARK	TYPE	THRU BOLT DIAMETER	STUD QUANTITY	BASE ANCHOR
HD1	HD3B	(2) 5/8"	(2) 2x6	SIMPSON SB5/8x24
HD2	HD3B	(2) 5/8"	(2) 2x6	SIMPSON SSTB24
HD3	HD5B	(2) 3/4"	(2) 2x6	SIMPSON SSTB28

ATTACH SHEATHING TO WALL STUDS/BLOCKING AS INDICATED ON SHEAR WALL SCHED	
PROVIDE CONT BLOCKING AT PANEL EDGES, TYP	
SHEAR WALL SHEATHING, SEE SHEAR WALL SCHED	
PROVIDE (2) STUDS AT PANEL JOINTS, TYP	

NOTE:	
2x WALL STUDS ARE	
NOT SHOWN, SEE PLA	١N

	SHEAR WALL HOLD DOWN DETAIL AND SCHEDULE
.01/	3/4" = 1'-0"

SHEAR WALL STUDS, SEE -SHEAR WALL SCHED

HOLD DOWN BOLTS, SEE SHEAR WALL SCHED, INSTALL THE NUT ON THE

OPPOSITE SIDE OF THE HOLD DOWN AS SHOWN

SIMPSON HOLD DOWNS, -SEE HOLD DOWN SCHED

ANCHOR BOLT, SEE -HOLD DOWN SCHED

5 TYPICAL SHEAR WALL LAYOUT 3/4" = 1'-0"

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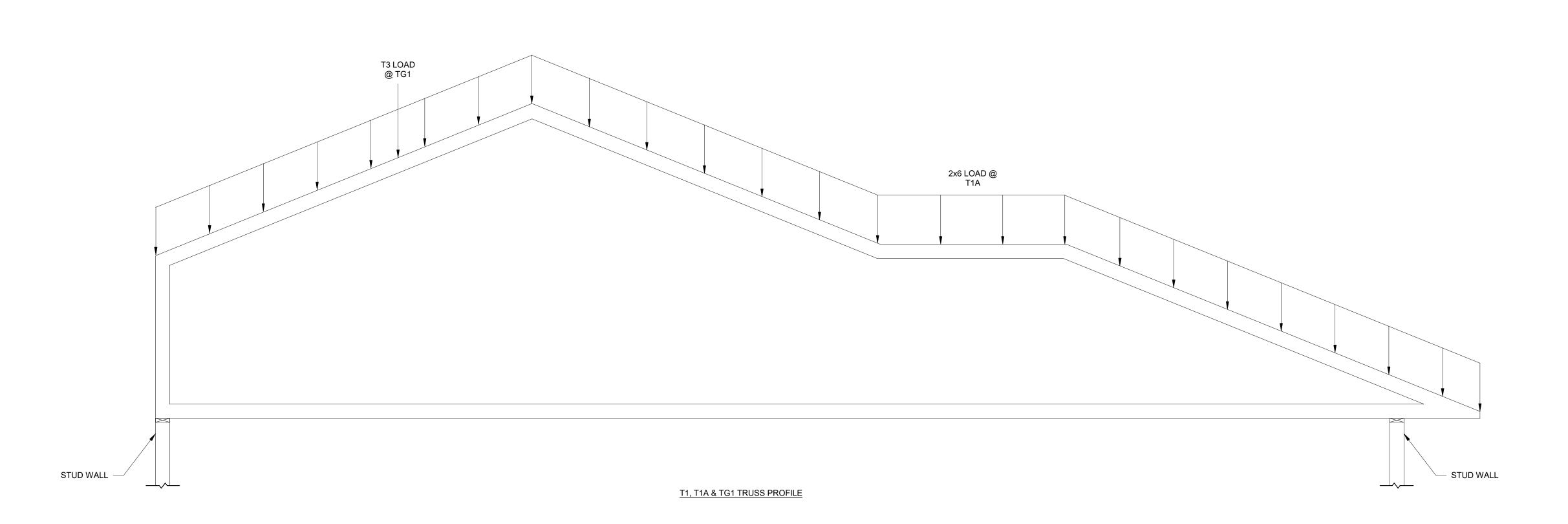
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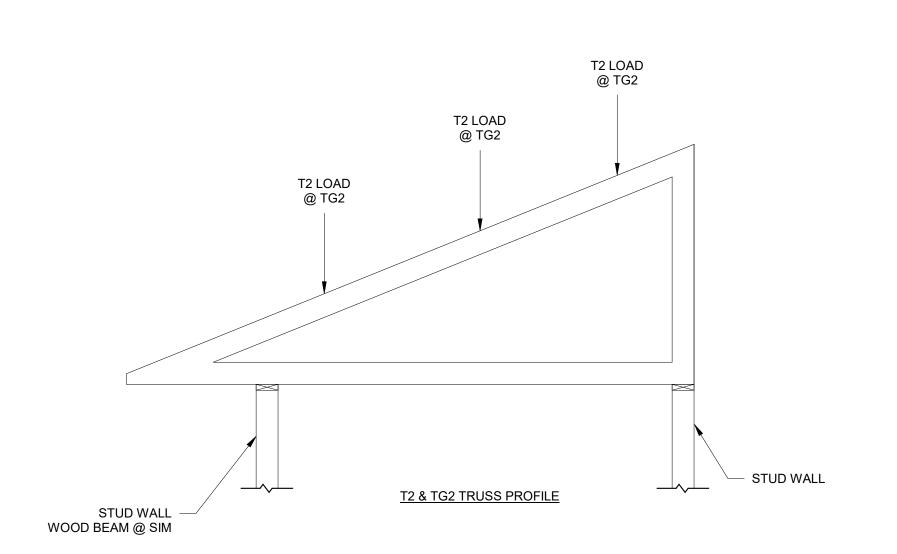
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WOOD FRAMING DETAILS

Sheet No.

S-6.01











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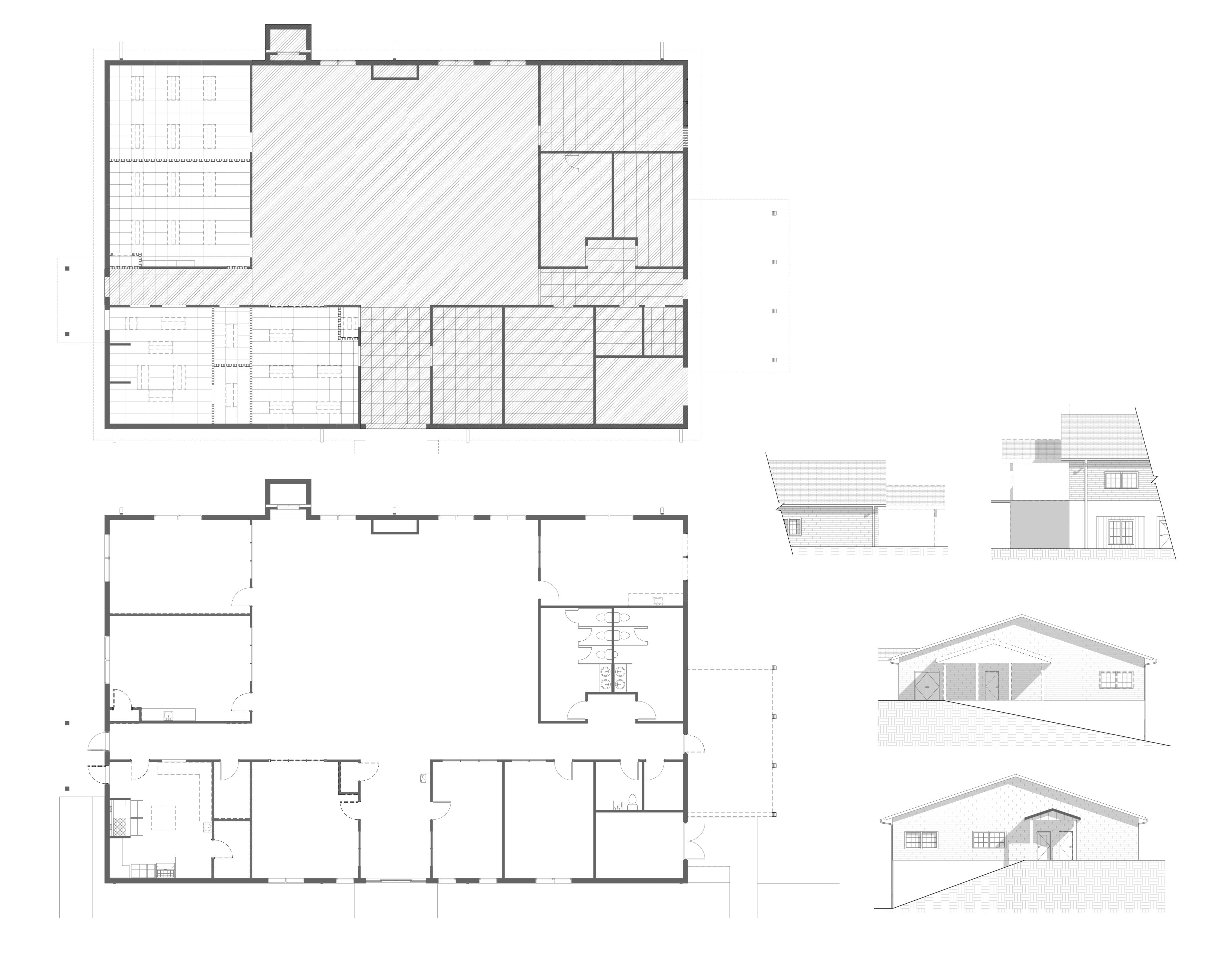
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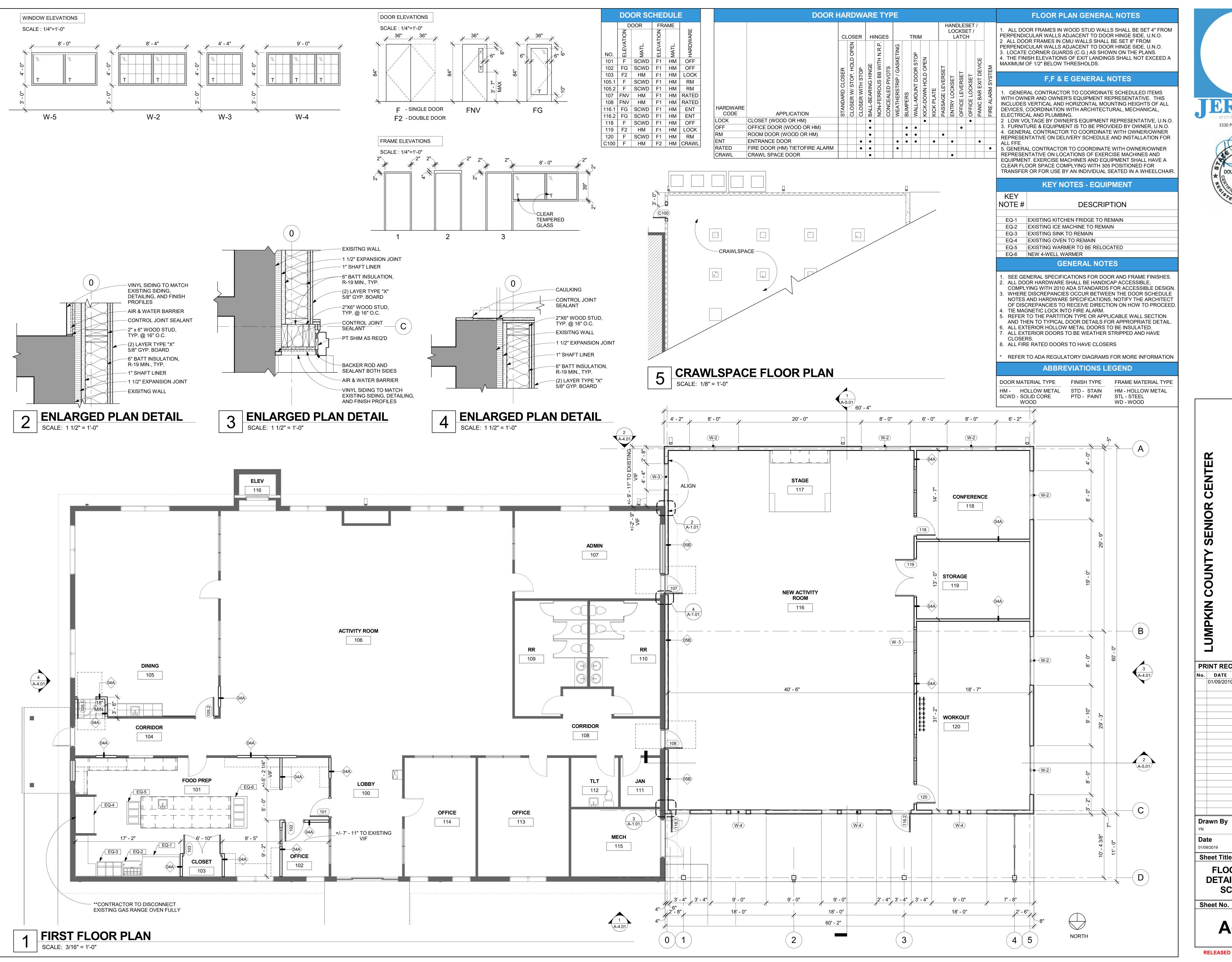
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Sheet No.

S-6.02

TRUSS PROFILES







DOUGLAS E SHAW

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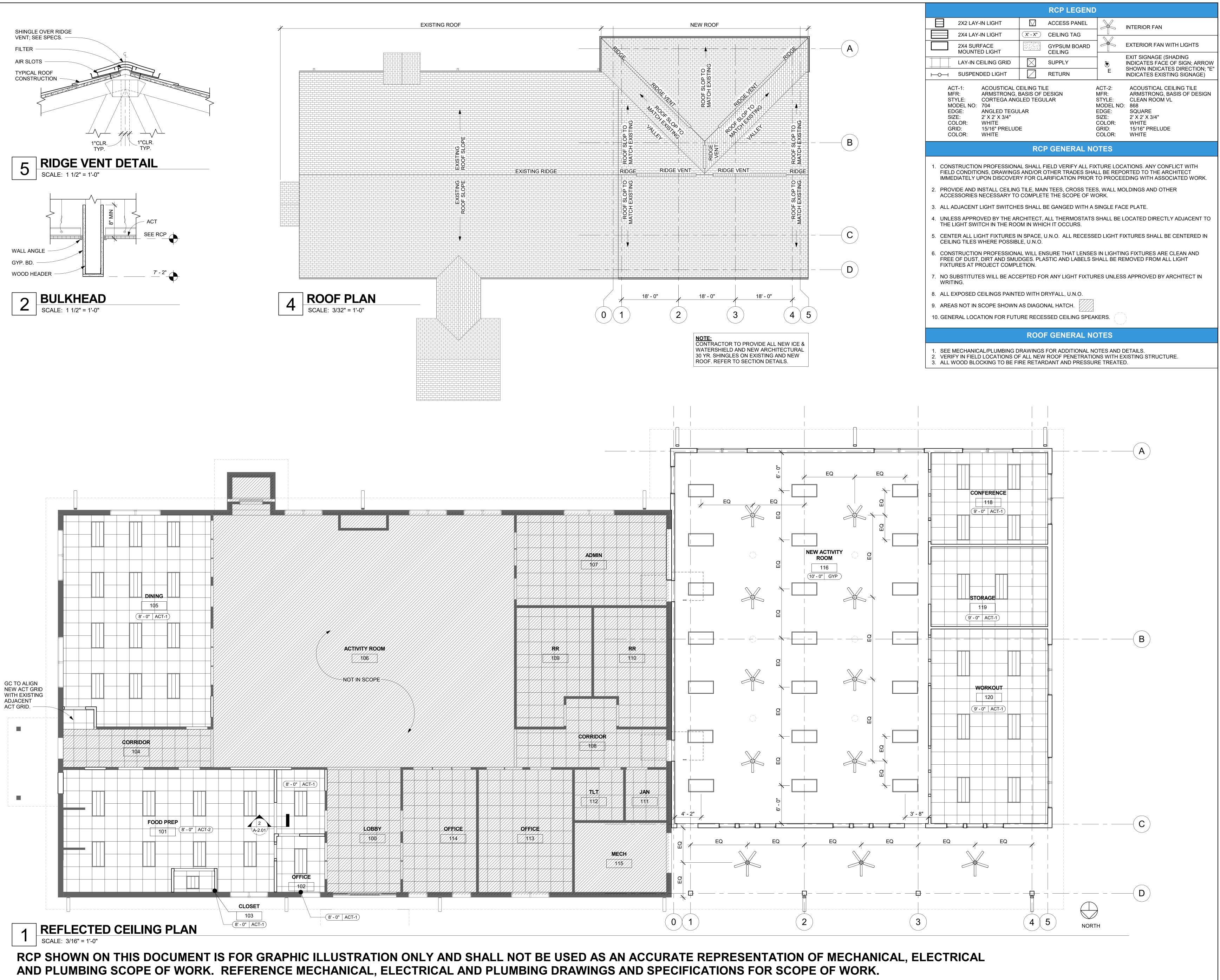
A-1.01

RELEASED FOR CONSTRUCTION

FLOOR PLANS,

DETAILS, & DOOR

SCHEDULE



JERICHO

architectural design group

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Alphretta, GA 30005

DOUGLAS E SHAW

A DOUGLAS E SH

LUMPKIN COUNTY SENIOR CENTER

EXPANSION

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DATE DESCRIPTION

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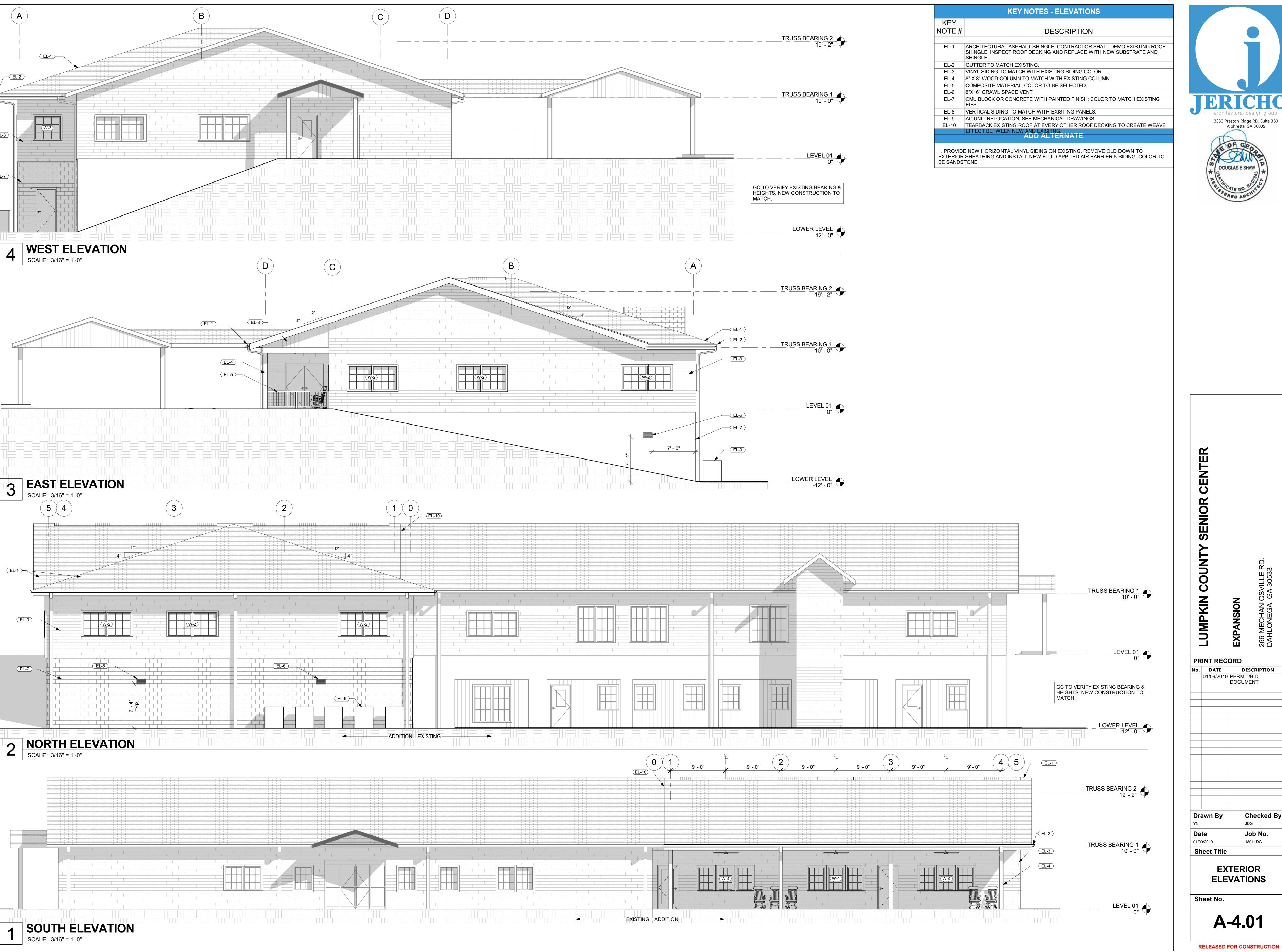
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01/09/2019
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RCP, ROOF PLAN, & DETAILS

Sheet No.

A-2.01



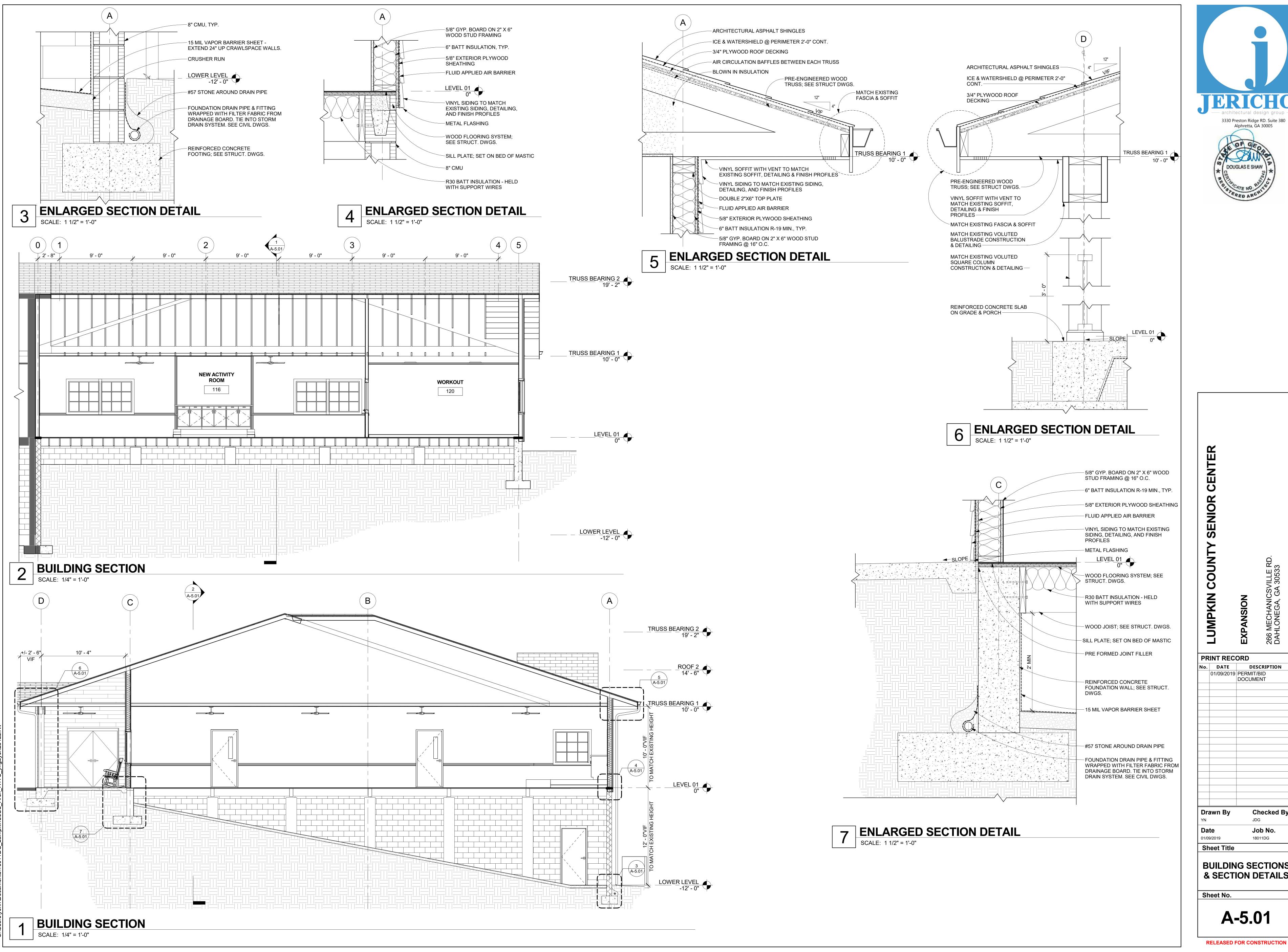
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ELEVATIONS

A-4.01





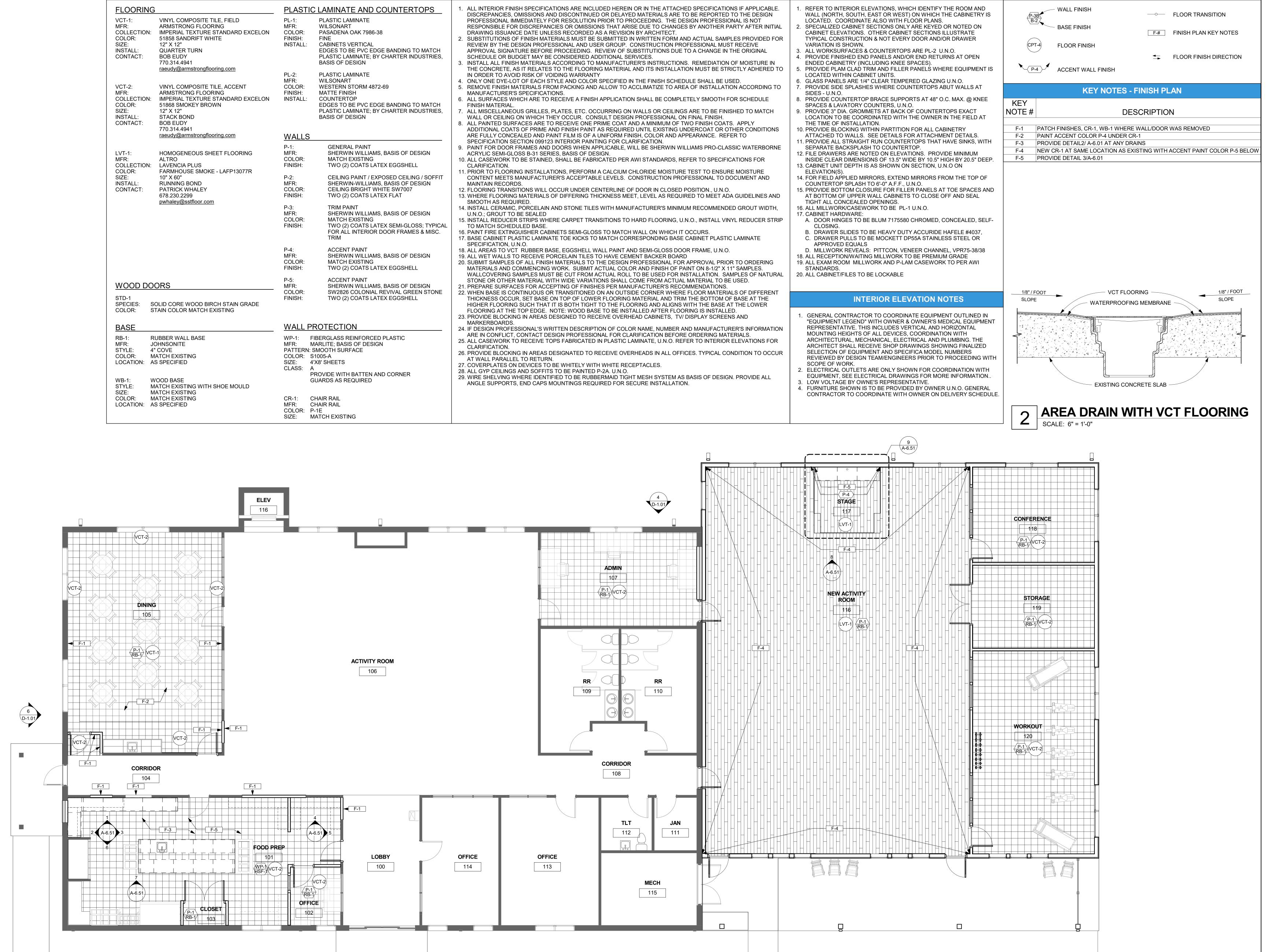
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BUILDING SECTIONS & SECTION DETAILS

Sheet No.

A-5.01



FINISH PLAN GENERAL NOTES

MILLWORK GENERAL NOTES

FINISH LEGEND

FIRST FLOOR PLAN

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

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FINISH SYMBOL LEGEND

DOUGLAS E SHAW

A MARIANTE NO RECEIVED ARCHITECT

COUNTY SENIOR CENTER

LUMPKIN COUNTY SENIOR CENTER

AND AND AND COUNTY SENIOR CENTER

AND COUNTY SENIOR CENTER

BY ON COUNTY SENIOR CENTER

See MECHANICSVILLE RD.

DAHLONEGA, GA 30533

Date
Job No.
01/09/2019
18011DG

Sheet Title

FINISH PLAN &

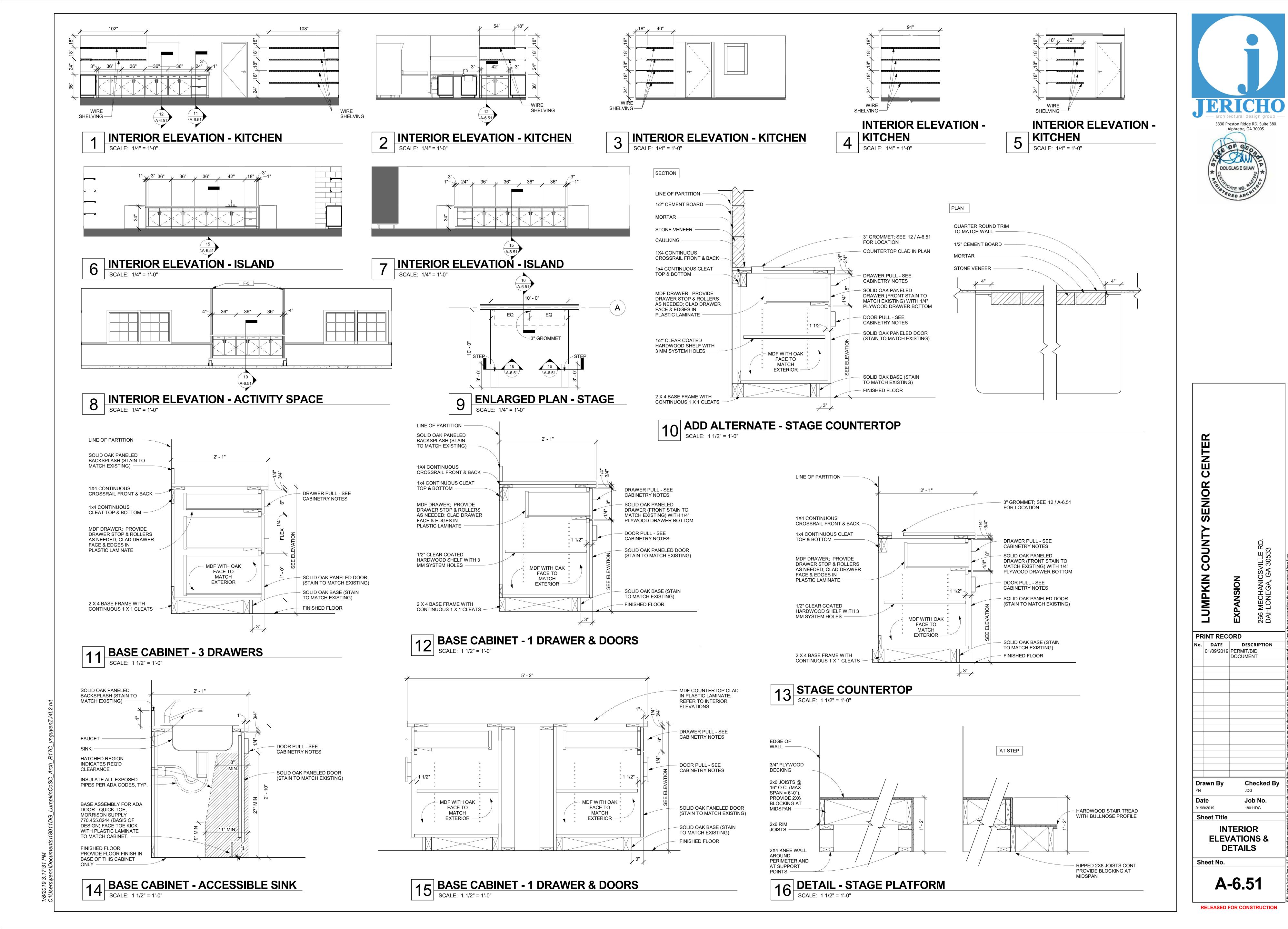
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SCHEDULES

Sheet No.

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A-6.01





	COLD WATER PIPE	
	HOT WATER PIPE	
—— FW ———	FILTERED WATER PIPE	
—— F ———	FIRE SPRINKLER PIPE	
G	NATURAL GAS PIPE	
s	SANITARY PIPE	
—— GW ———	GREASE WASTE PIPE	
ST	STORM PIPE	
—EST——	EMERGENCY STORM PIPE	
	VENT PIPE	
— e—	PIPE UP / PIPE DOWN	
⊕ †	PIPE TEE FROM TOP / TEE FROM BOTTOM	
<u> </u>	PIPE CAP / PIPE CONTINUATION	
ю́— Т У—	BALL VALVE / CHECK VALVE	

EMERICENOT GROTINI THE		00111	CONTINUON	Ğ	
	VENT PIPE		CW	COLD WATER	PRV
PIPE UP / PIPE DOWN			DN	DOWN	RP
PIPE TEE FROM TOP / TEE FROM BOTTOM			ET	EXPANSION TANK	S/SAN
PIPE CAP / PIPE CONTINUATION			EWC	ELECTRIC WATER COOLER	SH
BALL VALVE / CHECK VALVE			ex.	EXISTING	SK
	MIXING VALVE / PRESSURE REDUCING VALVE		FCO	FLOOR CLEANOUT	ST
	BACKFLOW PREVENTER ASSEMBLY		FD	FLOOR DRAIN	TP
	WALL HYDRANT / HOSE BIBB		FHB	FREEZEPROOF HOSE BIBB	TYP

HOSE BIBB

HUB DRAIN

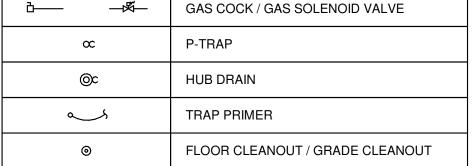
HOT WATER

HOT WATER RETURN

ABBREVIATIONS

MMMM		BACKFLOW PREVENTER ASSEMBLY	
}		WALL HYDRANT / HOSE BIBB	
		FLOOR DRAIN / FLOOR SINK	
		WATER HAMMER ARRESTOR	
`—— ——————————————————————————————————		GAS COCK / GAS SOLENOID VALVE	
œ		P-TRAP	

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PIPE CLEANOUT / WALL CLEANOUT

AAV	AAV AIR ADMITTANCE VALVE		ICE MACHINE BOX
A/C ABOVE CEILING		ΙΕ	INVERT ELEVATION
A/F	ABOVE FLOOR	L / LAV	LAVATORY
AFF,AFG	ABOVE FINISHED FLOOR/GRADE	МВН	1000 BTU/HR
B/F	BELOW FLOOR	MS	MOP SINK
BFP	BACKFLOW PREVENTER	MV	MIXING VALVE
B/G	BELOW GRADE	O/H	OVERHEAD
CD	CONDENSATE DRAIN	OW	OIL WASTE
CONT	CONTINUATION	G	NATURAL GAS
CW	COLD WATER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	RP	RECIRCULATION PUMP
ET	EXPANSION TANK	S/SAN	SANITARY
EWC	ELECTRIC WATER COOLER	SH	SHOWER
ex.	EXISTING	SK	SINK
FCO	FLOOR CLEANOUT	ST	STORM
FD	FLOOR DRAIN	TP	TRAP PRIMER
FHB	FREEZEPROOF HOSE BIBB	TYP	TYPICAL
FS	FLOOR SINK	UR	URINAL
FWH	FREEZEPROOF WALL HYDRANT	V	VENT

Γ	CONTINUATION	G	NATURAL GAS	CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR EQUIPMENT
	COLD WATER	PRV	PRESSURE REDUCING VALVE	INSTALLATION PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED SUCH THAT THEY ARE EASILY ACCESSIBLE AND SERVICABLE. THIS EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: PLUMBING
	DOWN	RP	RECIRCULATION PUMP	FIXTURES, WATER HEATERS, EXPANSION TANKS, PUMPS, BACKFLOW PREVENTERS, VALVES, MIXING VALVES, THERMOMETERS, GAUGES, TRAP PRIMERS AND CLEANOUTS.
	EXPANSION TANK	S/SAN	SANITARY	THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE FULL SET OF CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL &
	ELECTRIC WATER COOLER	SH	SHOWER	ELECTRICAL DRAWINGS (AS APPLICABLE) TO ENSURE ALL PLUMBING WORK IS COORDINATED WITH PHYSICAL CONDITIONS AND ALL OTHER TRADES.
	EXISTING	SK	SINK	THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL DRAWINGS TO ENSURE THERE IS ADEQUATE WALL THICKNESS SUCH THAT ALL PIPING, FIXTURE
	FLOOR CLEANOUT	ST	STORM	CARRIERS, WALL CLEANOUTS, WALL BOXES, WALL HYDRANTS AND ACCESS PANELS WILL FIT IN THE WALL SPACE. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF WALL
	FLOOR DRAIN	TP	TRAP PRIMER	SPACE IS INADEQUATE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL OBTAIN EXACT WALL, FIXTURE, AND LAYOUT DIMENSIONS
	FREEZEPROOF HOSE BIBB	TYP	TYPICAL	FROM THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROUGH-IN AND INSTALLATION DRAWINGS FOR ALL PLUMBING FIXTURES,
	FLOOR SINK	UR	URINAL	KITCHEN EQUIPMENT AND OWNER FURNISHED EQUIPMENT (AS APPLICABLE), AND SHALL COORDINATE THE PLUMBING INSTALLATION PRIOR TO COMMENCING THE

WATER COLUMN

WALL CLEANOUT

WATER HAMMER ARRESTER

WASHING MACHINE BOX

GCO VENT THROUGH ROOF GRADE CLEANOUT GREASE INTERCEPTOR WATER CLOSET

WCO

WMB

COMPLETE AND OPERATIONAL CONDITIONS WHICH ARE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THESE DRAWINGS ARE DIAGRAMMATIC AND DO NOT REFLECT ALL POSSIBLE PHYSICAL CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND EXACT LOCATIONS OF EQUIPMENT AND FIXTURES. PROVIDE NECESSARY PIPING

PLUMBING SPECIFICATIONS

SPECIFICATIONS AND RECOMMENDATIONS.

DOCUMENTS WILL NOT BE CONSIDERED.

GENERAL
ALL WORK SHALL COMPLY WITH ALL STATE, CITY AND LOCAL CODES, RULES AND REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND INSPECTIONS ASSOCIATED WITH THIS WORK, AND SHALL PAY ALL COSTS AND FEES

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOGNIZED

STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS,

PRACTICE IN THE FIELD CONCERNED. MANUFACTURED ITEMS SHALL BE INSTALLED IN

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID.

CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE

SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT

COORDINATE THE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ISSUING SUBMITTALS OR PURCHASING EQUIPMENT.

WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL

ESCUTCHEONS, WATER HAMMER ARRESTORS, VACUUM BREAKERS, RELIEF VALVES, PIPE INSULATION, AND EQUIPMENT SPECIALTY DEVICES AS REQUIRED TO FACILITATE

NECESSARY VALVES, CONNECTIONS, TRAPS, ACCESS PANELS, UNIONS,

AND CONNECTION TO SITE UTILITIES (AS APPLICABLE).

UNLESS NOTED OTHERWISE, ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT. 2" SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT.

OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE, WORK OF OTHER TRADES,

DOMESTIC WATER PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

ALL DOMESTIC WATER PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. CONDENSATE PIPING SUBJECT TO FREEZING WITHIN WALK-IN FREEZERS SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION.

PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE REQUIREMENTS OF THE COUNTY HEALTH DEPARTMENT AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION REGARDING CROSS CONNECTION CONTROL OR OBTAINING A FOOD SERVICE PERMIT (AS APPLICABLE). REPORT ANY OBSERVED DISCREPANCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK.

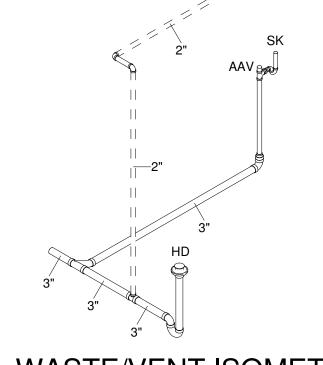
CONTRACTOR SHALL CONFIRM PLUMBING FIXTURE FINISHES WITH THE ARCHITECTURAL SCHEDULES & DETAILS (AS APPLICABLE).

USE OF THIS EQUIPMENT.

FURNISH SHOP DRAWINGS FOR MANUFACTURED PRODUCTS. ALL ITEMS SHALL BE CLEARLY MARKED TO MATCH EQUIPMENT MARKS ON THE PLUMBING DRAWINGS. ALL OPTIONS MUST BE CLEARLY MARKED ON THE SUBMITTAL SHEET. A MODEL NUMBER LISTING ON A COVER SHEET IS NOT AN ACCEPTABLE SUBSTITUTE FOR MARKING THE ACTUAL SUBMITTAL SHEET. ELECTRICAL DATA FOR POWERED EQUIPMENT MUST BE INDICATED ON THE SUBMITTAL SHEET FOR THAT ITEM.

ALL ITEMS MUST BE SUBMITTED IN ONE PACKAGE AT THE SAME TIME, IN ELECTRONIC PDF FORMAT. SEPARATE SUBMITTALS FOR FIXTURES AND EQUIPMENT IS NOT ACCEPTABLE.

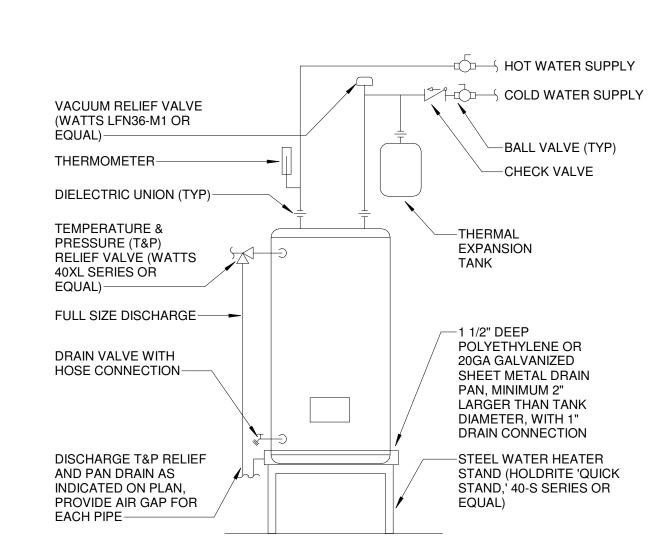
SUBMITTAL REVIEW IS CONSIDERED A GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND/OR ALTERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN SUBSTITUTED EQUIPMENT IS INSTALLED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION OR ADDITIONAL COST BROUGHT ON BY THE



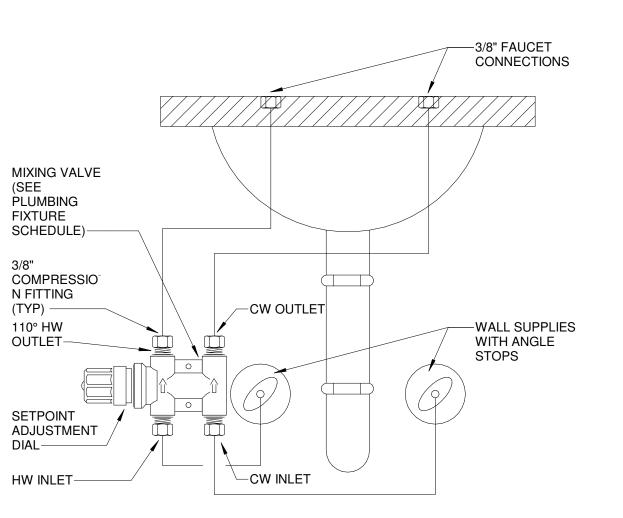
4 WASTE/VENT ISOMETRIC

PLUMBING FIXTURE SCHEDULE

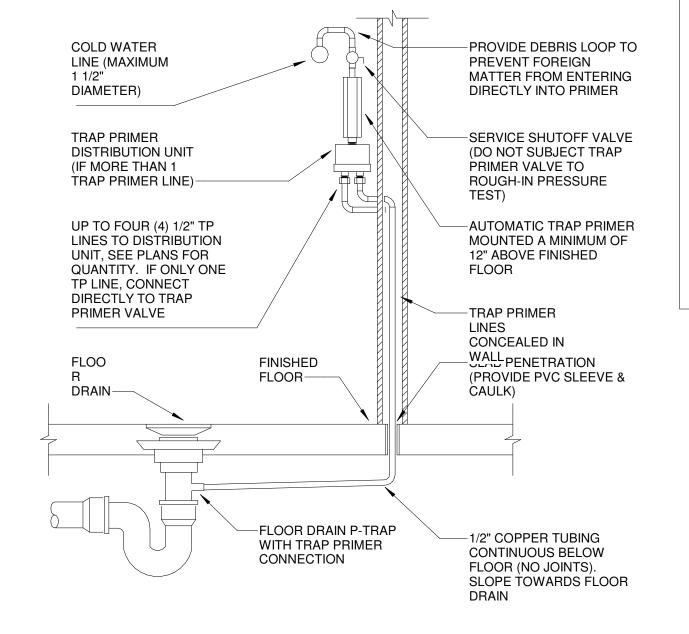
					WATER	RUNOUT	WATER	CONN.			
MARK	DESCRIPTION	WASTE RUNOUT	WASTE CONN.	VENT	cw	HW	CW	HW	SPECIFICATION		
MV-1	MIXING VALVE (POINT OF USE)				1/2"	1/2"	3/8"	3/8"	POINT-OF-USE THERMOSTATIC MIXING VALVE (WATTS LFMMV-M1) WITH TEMPERATURE ADJUSTMENT KNOB. LEAD FREE. ASSE STANDARD 1070.		
TP-A	AUTOMATIC TRAP PRIMER				1/2"		1/2"		AUTOMATIC TRAP PRIMER (P.P.P. MODEL P2-500). FOR TWO LINES, PROVIDE DISTRIBUTION UNIT DU-4/DU-U. FOR THREE OR FOUR LINES, PROVIDE MODEL P1-500 AND DU-4/DU-U. ASSE STANDARD 1018.		
AAV-1	AIR ADMITTANCE VALVE			see plan					STUDOR "MINI VENT", MODEL #20301 OR "MAXI VENT", MODEL #20302, IN ACCORDANCE WITH SIZE INDICATED ON PLANS.		



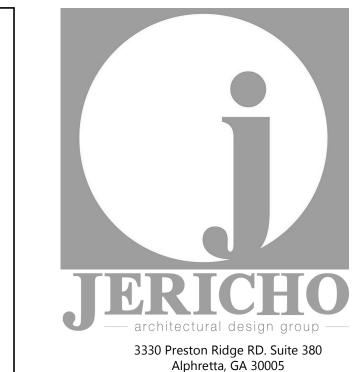
3 STAND MOUNTED ELECTRIC WATER HEATER P-0.01 N.T.S.



POINT OF USE MIXING VALVE
P-0.01 N.T.S.



AUTOMATIC TRAP PRIMER







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4 1/2" CW & 1/2" HW UP 5 3/4" CW & 3/4" HW UP 6 3" S A/C & CONNECT TO EXISTING SANITARY PIPING IN BUILDING. FIELD VERIFY EXACT LOCATION, DEPTH AND DIRECTION OF FLOW PRIOR TO COMMENCING WORK. 7 3/4" CW A/C & CONNECT TO EXISTING WATER PIPING, FIELD VERIFY SIZE AND EXACT LOCATION. 8 3/4" CW & 3/4" HW A/C & CONNECT TO EXISTING CW & HW LINES SERVING EXISTING KITCHEN EQUIPMENT, FIELD VERIFY EXACT SIZE & LOCATION. 9 EXISTING CONDENSATION LINES TO BE RELOCATED & CAPPED AT EXISTING EXTERIOR LOCATION. 10 EXISTING PLUMBING FIXTURES IN THIS AREA TO REMAIN

KEYNOTES

3 3" S UP TO DRAIN ABOVE

1 2" S UP 2 2" V UP — architectural design group — 3330 Preston Ridge RD. Suite 380 Alphretta, GA 30005





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BASEMENT PLAN

Sheet No.

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

KEYNOTES

STAGE

117

- 1 EXISTING PLUMBING FIXTURES IN THIS AREA TO REMAIN 2 DEMO EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING. CAP UNUSED PIPING BELOW FLOOR, IN WALL, OR ABOVE CEILING AS
- 3 RELOCATE EXISTING WATER HEATER TO THIS LOCATION. CONTRACTOR SHALL VERIFY HEATER & ACCESSORIES ARE IN PROPER WORKING ORDER. REPORT ANY DEFICIENCIES TO ARCHITECT/OWNER. CONTRACTOR SHALL ENSURE CURRENT INSTALLATION IS IN ACCORDANCE WITH WATER HEATER DETAIL ON THESE DRAWINGS.
- 4 2" V DN 5 DISCHARGE WATER HEATER PAN DRAIN TO HUB DRAIN WITH AIR GAP. ROUTE 1/2" CW TO TRAP PRIMER 'TP-A' WITH 1/2" TP LINE TO HUB DRAIN
- 6 2" V UP TO AIR ADMITTANCE VALVE 'AAV-1', FIELD COORDINATE EXACT LOCATION WITH EQUIPMENT TO BE INSTALLED
- 7 1/2" CW & 1/2" HW DN 8 3/4" CW & 3/4" HW DN

CONFERENCE 118

STORAGE

119

- 9 1/2" CW & 1/2" 140°HW TO FIXTURE, PROVIDE MIXING VALVE 'MV-1' TO TEMPER HW TO 110°
- 10 3/4" CW & 3/4" 140°HW TO WATER HEATER INSTALLATION, SEE DETAIL
- (11) 2" V A/C & CONNECT TO EXISTING VENT PIPING. FIELD VERIFY EXACT LOCATION PRIOR TO COMMENCING WORK. PROVIDE NEW VENT THROUGH ROOF AS NECESSARY.
- 12 DISCONNECT EXISTING GAS RANGE. CAP UNUSED PIPING BELOW FLOOR, IN WALL, OR ABOVE CEILING AS APPLICABLE.









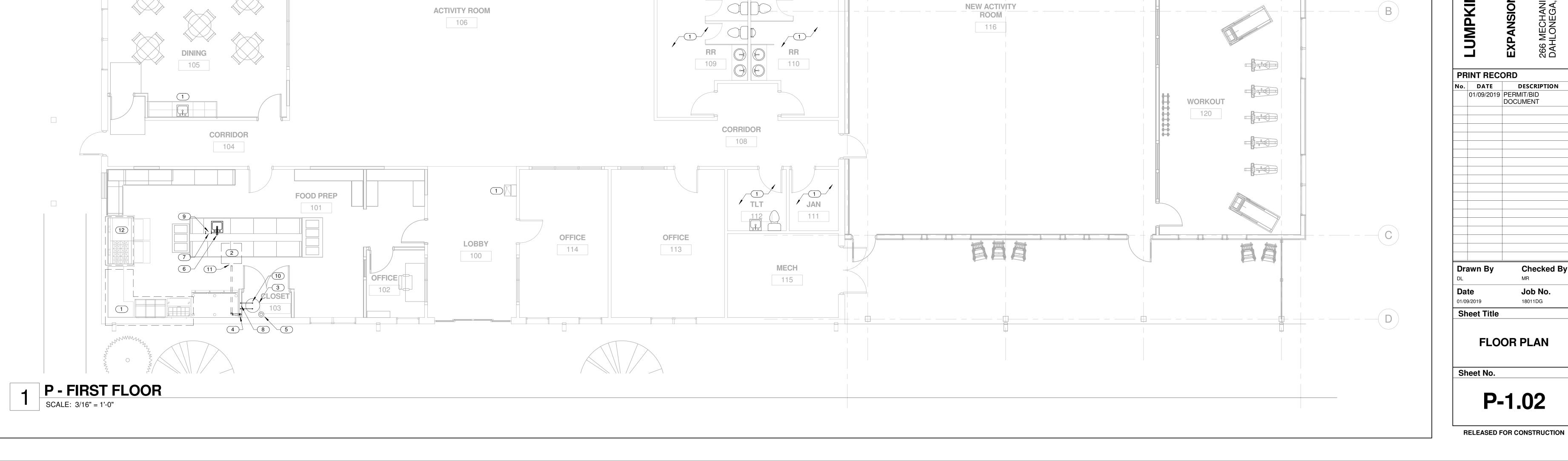
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FLOOR PLAN

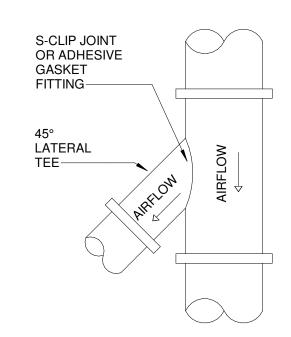
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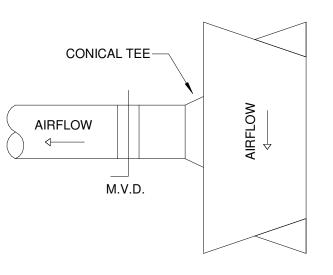


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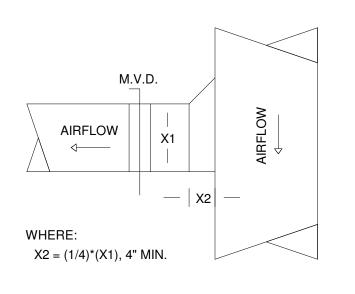
ACTIVITY ROOM
106



ROUND - ROUND

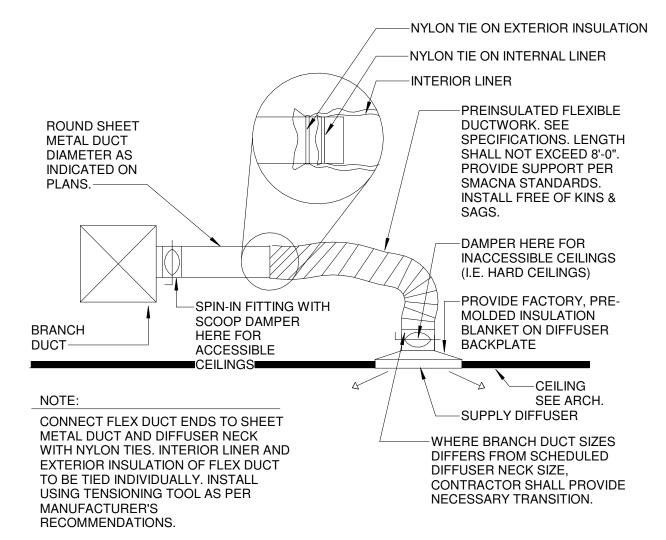


RECTANGULAR - ROUND

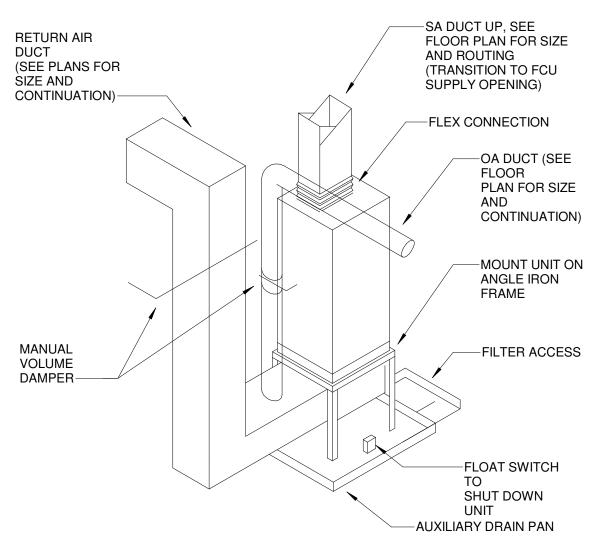


RECTANGULAR - RECTANGULAR





DIFFUSER TAKE-OFF
M-0.01 N.T.S.

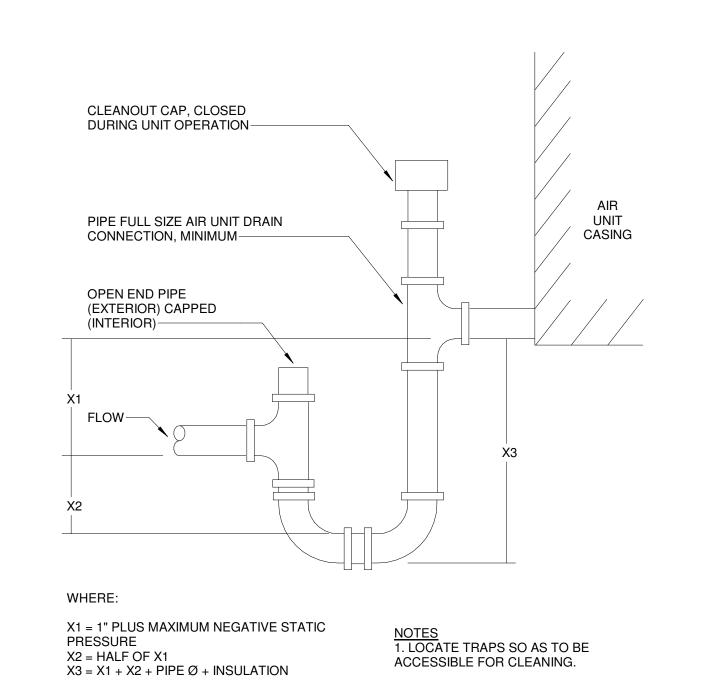


NOTE:
ROUTE PRIMARY CONDENSATE TO HUB DRAIN, SEE PLMB. DWGS.

VERTICAL FAN COIL UNIT WITH DUCTED RETURN N.T.S.



SYMBOLS	DESCRIPTION
X1 _X2	DIFFUSER, GRILLE, REGISTER OR LOUVER TAG X1 = TYPE, X2 = CFM
	POSITIVE PRESSURE (AIR GOES OUT) DIFFUSER OR REGISTER, 4- WAY
	AIR PATTERN (UNLESS OTHERWISE NOTED) NEGATIVE PRESSURE (AIR GOES IN) GRILLE
>	POSITIVE PRESSURE AIRFLOW (TYP. SUPPLY)
-√ -	NEGATIVE PRESSURE AIRFLOW (TYP. RETURN/EXHAUST)
1111111	FLEXIBLE DUCT
Γ	MANUAL VOLUME DAMPER (MVD)
FD	VERTICAL (TYP. WALL) FIRE DAMPER
FSD	VERTICAL (TYP. WALL) COMBINATION FIRE/SMOKE DAMPER
FD	HORIZONTAL (TYP. FLOOR/CEILING) FIRE DAMPER
FSD	HORIZONTAL (TYP. FLOOR/CEILING) COMBINATION FIRE/SMOKE DAMPER
T	THERMOSTAT
H	HUMIDISTAT
	INTERNALLY LINED DUCT
	DUCT UP
	DUCT UP
	DUCT DN
	SUPPLY DUCT
UNIT i	EQUIPMENT TYPE EQUIPMENT NUMBER. WHERE A LETTER IS USED, THERE ARE MULTIPLE INSTANCES.



4 CONDENSATE TRAP

M-0.01 N.T.S.







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LOUVERS

SYMBOL	MODEL/	SERVES	SIZE	MIN FREE AREA	CFM	MAX PRESS. DROP	OPERATOR	INTERLOCK	FRAME		RE	MARI	KS	
	SERIES		WxH (IN)	(SQ FT)		(IN WC)				1	2	3	4	5
WL-1	ESD-635	FCU-1,2 OUTSIDE AIR	24x18	1.1	565	0.05	N/A	N/A	ALUMINUM	Х	Х	Х	Х	

NOTES (APPLY TO ALL):

A. FINAL COLOR SELECTION SHALL BE MADE BY ARCHITECT AT TIME OF SHOP DRAWING APPROVAL. PROVIDE COLOR/FINISH CHARTS AS PART OF SUBMITTAL. B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY UNITED ENERTECH, ARROW, RUSKIN.

5 5 5

4

REMARKS (APPLY AS SCHEDULED):

1. BIRD SCREEN

2. BAKED ON ENAMEL FINISH. 3. GRAVITY BACKDRAFT DAMPER.

4. INSULATED PLENUM, MINIMUM 24" DEEP, FULL SIZE OF LOUVER CONNECTION.

DIFFUSER, GRILLE AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA AT MAX CFM	MODEL
RC1212	EGGCRATE GRILLE	12x12	12x12	25	TITUS 50F
RC2424	EGGCRATE GRILLE			25	TITUS 50F
SC1206	DOUBLE DEFLECTION SUPPLY	14x8	12x6	25	TITUS 300FS
SCL06	LOUVERED FACE SUPPLY	24x24	6Ø	25	TITUS TMS
SCL08	LOUVERED FACE SUPPLY	24x24	8Ø	25	TITUS TMS
SCP06	PLAQUE SUPPLY	24x24	6Ø	25	TITUS OMNI
A AIR DEVICE (LE	DIFFUSERS REGISTERS AND GRILLES) COLO	R SELECTION SE	IALL BE MADE BY	ARCHITECT CONTR	ACTOR SHALL SURMIT

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION. B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING

SPLIT DIRECT EXPANSION (DX) EQUIPMENT

				INDOOL	R UNIT					OUTDOOR U	INIT			COME	BINED COO	LING CAPA	CITIES							
		TOTAL				AUXILIARY		BASIS			BASIS	NOMINAL				COOLIN	G				RE	EMARK	S	
MARK	SERVES	S.A	O.A	E.S.P.	MOTOR	HEATER	WEIGHT	OF	MIN.	WEIGHT	OF	TONNAGE	TOTAL	SENS	LAT	Ent. Tdb	Ent. Twb	Lvg. Tdb	Lvg. Twb					
		(CFM)	(CFM)	(IN WG)	(hp)	(kW @ 208v)	(LBS)	DESIGN	SEER	(LBS)	DESIGN	(TONS)	(MBH)	(MBH)	(MBH)	(°F)	(°F)	(°F)	(°F)	1 2	3 4	4 5	6	7 8
FCU-1 / CU-1	ACTIVITY	1,990	200	0.50	3/4	11.3	201.0	FX4DNB061	14.5	197.0	24ACC460	5.0	58.4	43.3	15.1	76.9	65.1	56.0	55.0	x x	x x	x x	х	x x
FCU-2 / CU-2	CONFERENCE / WORKOUT	1,600	365	0.50	1/2	11.3	182.0	FY5BNF0428	14.5	182.0	24ACC448	4.0	49.7	37.0	12.7	79.3	66.5	57.0	56.0	x x	x x	х	х	х

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.

B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/-10% OF SCHEDULED CAPACITIES.

C. BASIS OF DESIGN: CARRIER. REFER TO SPECIFICATIONS.

ACCEPTABLE ALTERNATES: JCI/YORK, TRANE, DAIKIN/MCQUAY, LENNOX

D. ALL EVAPORATORS AND COOLING COILS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO

SHUTDOWN THE UNIT OPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN.

E. AS AN ALTERNATIVE TO THE AUXILIARY CONDENSATE DRAIN PAN, AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER MAY BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE OR THE

EQUIPMENT SUPPLIED DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.

REMARKS (APPLY AS SCHEDULED):

1. PROGRAMMABLE THERMOSTAT. 2. LOW AMBIENT PACKAGE.

3. DISPOSABLE FILTER.

4. ANTI-SHORT CYCLE TIMER. 5. INDOOR FAN DELAY KIT.

6. DISCONNECT SWITCH PROVIDED BY THE ELECTRICAL SUBCONTRACTOR AT BOTH THE INDOOR AND OUTDOOR UNIT.

REFER TO THE ELECTRICAL DOCUMENTS.

7. MOUNT OUTDOOR CONDENSING UNIT ON CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM 4" THICK AND SHALL

EXTEND 6" BEYOND UNIT ON ALL SIDES.

8. PROVIDE AIR PURIFICATION BAR EQUAL TO GPS-IMOD AT THE FULL WIDTH OF THE COOLING COIL. MOUNT THE BAR AT THE TOP OF THE COIL

AFTER THE FILTER AND POWER IT FROM THE 24 VOLT CONTROL CIRCUIT.

6991 Peachtree Industrial Blvd Building 700 Norcross, Georgia 30092 404.330.9798

3330 Preston Ridge RD. Suite 380 Alphretta, GA 30005

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FLOOR PLAN

Sheet No.

Sheet Title

M-1.01

RELEASED FOR CONSTRUCTION

GENERAL NOTES A. EACH SUPPLY DIFFUSER/REGISTER RUNOUT SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OF DETAIL FOR

ADDITIONAL INFORMATION. B. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.

HVAC EXISTING TO REMAIN UNLESS NOTED OTHERWISE. SERVICE AND RESTORE EXISTING ALL HVAC EQUIPMENT (SPLIT SYSTEMS, FANS, ETC) TO GOOD WORKING ORDER. D. RELOCATION OF EXISTING CONDENSING UNITS SHALL OCCUR DURING UNOCCUPIED HOURS. COORDINATE WITH BUILDING OWNERSHIP PRIOR

TO COMMENCING. E. TRAP AND ROUTE 1" INSULATED CONDENSATE LINES FROM EACH FAN COIL UNIT TO SPLASH BLOCK ON GRADE.

PROVIDE NEW THERMOSTATS WITH CLEAR COVER LOCK BOX.

G. FIRST FLOOR DUCTWORK ROUTED THROUGH PRE ENGINEERED ROOF TRUSSES. COORDINATE DUCTWORK WITH TRUSS MANUFACTURER

PRIOR TO ORDERING, FABRICATING, OR INSTALLING DUCTWORK.

KEYNOTES

1 TIE NEW SUPPLY AIR BRANCH DUCT INTO NEAREST EXISTING SUPPLY AIR TRUNK DUCT.

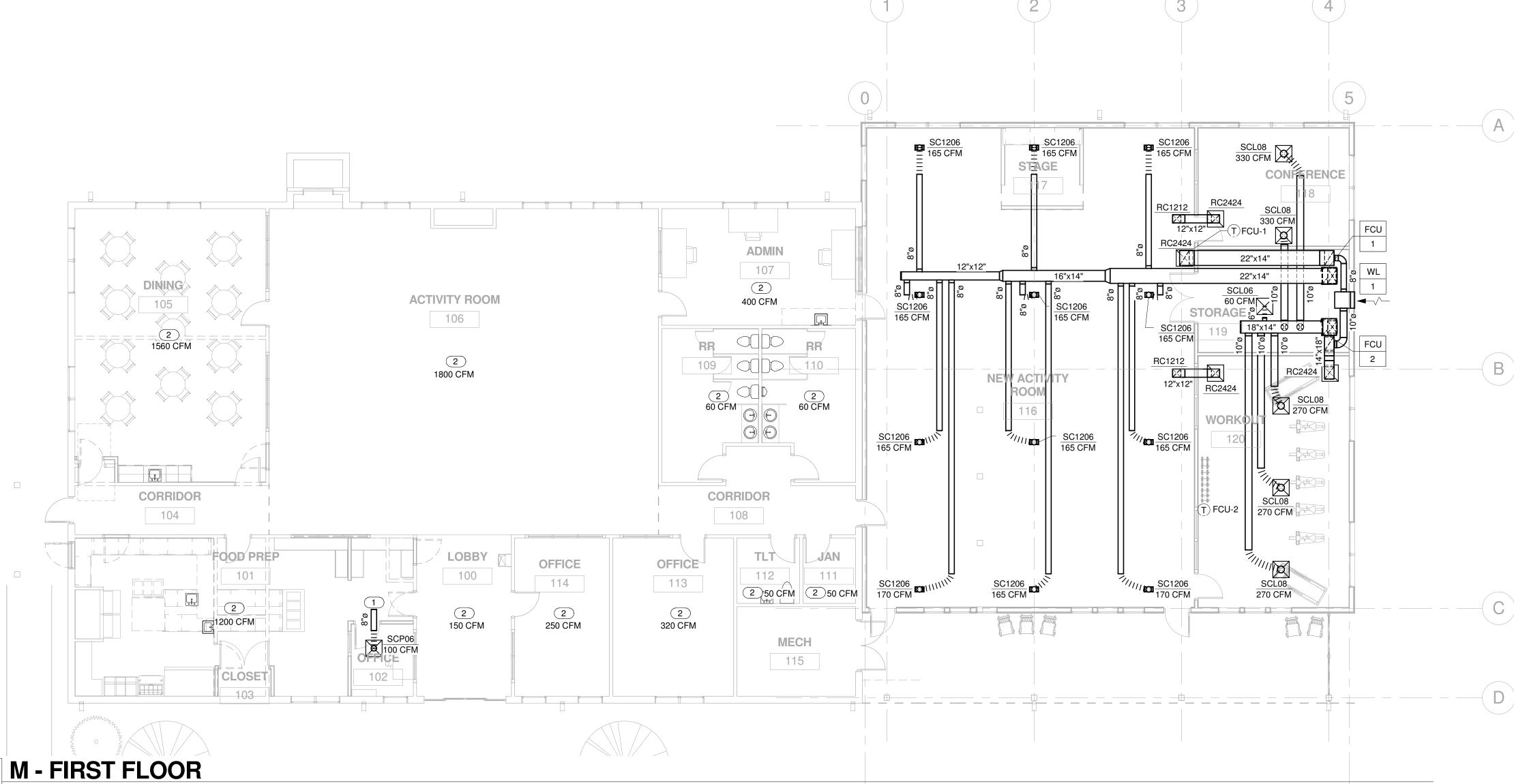
EXISTING DIFFUSERS IN THIS AREA TO REMAIN. CLEAN TO PROVIDE LIKE NEW APPEARANCE. BALANCE EXISTING DIFFUSERS IN THIS AREA TO TOTAL CFM AS INDICATED.

3 EXISTING OUTDOOR CONDENSING UNITS/ HEAT PUMPS TO BE RELOCATED TO THIS FINAL LOCATION AS SHOWN.

4 EXISTING OUTDOOR CONDENSING UNIT/HEAT PUMP LOCATIONS.

5 EXISTING OUTDOOR CONDENSING UNIT/HEAT PUMP TO BE TEMPORARILY RELOCATED TO LOCATION SHOWN UNTIL SITE WORK IS COMPLETE TO WHERE IT CAN BE RELOCATED TO THE FINAL LOCATION.

2 M - BASEMENT
SCALE: 1/16" = 1'-0"



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



ELECTRICAL GENERAL NOTES

FIXTURE PLACEMENT AND DIMENSIONS.

THE DESIGN OF THIS SET OF DOCUMENT IS BASED ON NEC 2017.

ELECTRICAL CONTRACTOR SHALL REFER TO ALL OTHER DESIGN DRAWINGS PRIOR TO BID AND RETAIN FULL UNDERSTANDING OF THE SCOPE OF WORK.

FIXTURE TYPE INDICATED BY UPPER CASE CHARACTERS, SWITCHING AND GROUPING DESIGNATED BY LOWER CASE LETTER AND CIRCUIT BY NUMBER (WHERE APPLICABLE). REFER TO THE ARCHITECTURAL/INTERIORS REFLECTED CEILING PLANS FOR EXACT

REFER TO THE ARCHITECTURAL/INTERIORS DOCUMENTS FOR ACTUAL DEVICE LOCATIONS AND DIMENSIONS.

COORDINATE THE INSTALLATION OF ALL CEILING MOUNTED DEVICES (FIRE ALARM SYSTEM DEVICES AND SPEAKERS, SOUND SYSTEM SPEAKER, ETC.) TO BE SYMMETRICAL ABOUT LIGHT FIXTURES AND SPRINKLER HEADS. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. TYPICAL.

ALL MOUNTING OF EQUIPMENT IS AS SHOWN UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT THE COLOR/FINISHES OF ALL ELECTRICAL DEVICES, OUTLETS, COVERPLATES AND TRIM.

REFER TO MECHANICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS AND ITIES OPERATION SHALL INCLUDE DUAL CONTACT BASE WITH LOCAL EQUIPMENT

SHUTDOWN AND FIRE ALARM SIGNAL INITIATION. WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.

REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION AND REQUIREMENTS

OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS, WHICH REQUIRE

ELECTRICAL SERVICE. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.

WALL SWITCHES CONTROLLING CIRCUITS OF OPPOSITE PHASES SHALL NOT BE INSTALLED IN COMMON BOX UNLESS PERMANENT BARRIER IS PROVIDED.

ALL HOME RUNS SHALL RUN PARALLEL TO STRUCTURE AS MUCH AS POSSIBLE WHERE CEILING IS EXPOSED.

ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE LOCATION OF SAME OCCURS WITHIN FOUR (4) INCHES OF PANEL POINT ON BAR JOISTS.

COORDINATE LOCATION OF ALL FLOOR MOUNTED MECHANICAL AND PLUMBING EQUIPMENT IN ORDER TO VERIFY POWER & CONTROL RACEWAY CONCEALED IN SLABS TERMINATED AT PROPER LOCATION.

DISCONNECT SWITCHES, MOTOR STARTERS AND OTHER ELECTRICAL EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILINGS, AND REQUIRING ACCESS FOR MAINTENANCE, SHALL BE INSTALLED WITH BOTTOM OF DEVICE ONE (1) FOOT ABOVE CEILING TO PROVIDE READY ACCESSIBILITY.

MECHANICAL, PLUMBING, FIRE PROTECTION AND OTHER EQUIPMENT ARE SHOWN ON FLOOR PLAN IN APPROXIMATE LOCATION. COORDINATE WITH M, P, FP AND CONTRACT DRAWINGS/SUBMITTALS FOR EXACT LOCATION OF EQUIPMENT.

GENERAL DIAGRAMATIC RACEWAY INTERCONNECTIONS OF EQUIPMENT, FIXTURES AND DEVICES ARE INDICATED ON FLOOR AND REFLECTED CEILING PLANS, REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ELEVATION CHANGES AND RACEWAY ROUTES.

RACEWAY FOR EXTERIOR LIGHTING MAY BE INDICATED OUTSIDE OF BUILDING FOOTPRINT FOR CLARITY. ROUTE ALL EXTERIOR LIGHTING RACEWAY WITHIN BUILDING STRUCTURE. POWER AND COMMUNICATIONS/DATA CONDUITS CAN CROSS AT 90°, BUT WHERE PARALLEL,

TELEVISION AND RADIO ANTENNAS CABLES SHALL HAVE SURGE PROTECTION. GROUND ALL

PROVIDE SURGE PROTECTION FOR ELECTRICAL AND TELEPHONE SERVICES.

PROVIDE TVSS FOR FIRE ALARM CONTROL PANEL.

SHALL BE A MINIMUM OF 8" APART.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH MECHANICAL AND PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS FOR ANY SUPPLEMENTAL POWER REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONTROL CIRCUITS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ALL EQUIPMENT TO ITS INTENDED OPERATIONAL STATUS.

EACH PENETRATION OF A FIRE RESISTANT RATED ASSYMBLY BY A PIPE. TUBE WIRE OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTME 814 OR E199.

ELECTRIC RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24-INCHES APART.

LIGHT SWITCHES AND ELECTRICAL OUTLETS, LOCATED IN ROOMS ACCESSIBLE TO THE DISABLED SHALL BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES ABOVE THE FINISHED FLOOR SURFACE. IF THE REACH OR THE CONTROL IS OVER AN OBSTRUCTION, THE MINIMUM HEIGHT SHALL BE REACHED TO 44 INCHES FOR A FORWARD APPROACH OR 46 INCHES FOR A SIDE APPROACH.

REFER TO LOW VOLTAGE CONSULTANT'S DRAWINGS FOR VOICE, DATA AND CATV OUTLET REQUIREMENTS. REFER TO LV CONSULTANT'S DRAWINGS FOR ANY ADDITIONAL INFORMATION.

ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF

SUPPORT ALL VERTICAL RACEWAY PER NEC TABLE 300.19(A).

MAKE ELECTRICAL CONNECTIONS TO ELECTRIC WATER COOLERS FROM GFCI PROTECTED OUTLET IN WALL BEHIND COOLER HOUSING. THE OUTLET AND CORD SHALL NOT BE VISIBLE FROM PUBLIC VIEW.

COORDINATE WITH CUTSHEETS OF ALL EQUIPMENT TO BE INSTALLED AND PROVIDE ADDITIONAL CIRCUITS FOR CONTROLS IF REQUIRED BY MANUFACTURER.

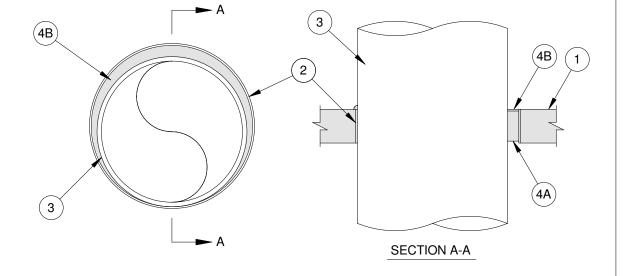
FINAL COLOR, FINISH AND OTHER AESTHETIC PORTIONS OF ALL DEVICES SHALL BE COORDINATED WITH ARCHITECT OR OWNER'S REPRESENTATIVE. THIS SET OF DRAWINGS DOES NOT SUPERCEDE ARCHITECTURAL OR INTERIOR DOCUMENTS.

ALL EXPOSED HORIZONTAL RUNS OF CONDUITS SHALL BE EITHER PARALLEL OR PERPENDICULAR TO EXTERIOR WALLS.

PLENUM.

PROVIDE PLENUM RATED CABLES IF THE CABLES ARE EXPOSED AND ROUTED THROUGH

1& 2 HOUR CONCRETE WALL UL# AJ-1226 PENETRATION DETAIL NO SCALE



1. FLOOR OR WALL ASSEMBLY — MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX DIAM OF OPENING IS 32 IN.

2. METALLIC SLEEVE — (OPTIONAL) NOM 32 IN. DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES OR EXTENDING A MAX OF 3 IN. ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL.

2A. SHEET METAL SLEEVE — (OPTIONAL) MAX 6 IN. DIAM, MIN 26 GA GALV STEEL PROVIDED WITH A 26 GA GALV STEEL SQUARE FLANGE SPOT WELDED TO THE SLEEVE AT APPROX MID-HEIGHT, OR FLUSH WITH BOTTOM OF SLEEVE IN FLOORS. AND SIZED TO BE A MIN OF 2 IN. LARGER THAN THE SLEEVE DIAM. THE SLEEVE IS TO BE CAST IN PLACE AND MAY EXTEND A MAX OF 4 IN. BELOW THE BOTTOM OF THE DECK AND A MAX OF 1 IN. ABOVE THE TOP SURFACE OF THE CONCRETE

2B. SHEET METAL SLEEVE — (OPTIONAL) - MAX 12 IN. DIAM, MIN 24 GA GALV STEEL PROVIDED WITH A 24 GA GALV STEEL SQUARE FLANGE SPOT WELDED TO THE SLEEVE AT APPROX MID-HEIGHT, OR FLUSH WITH BOTTOM OF SLEEVE IN FLOORS, AND SIZED TO BE A MIN OF 2 IN. LARGER THAN THE SLEEVE DIAM. THE SLEEVE IS TO BE CAST IN PLACE AND MAY EXTEND A MAX OF 4 IN. BELOW THE BOTTOM OF THE DECK AND A MAX OF 1 IN. ABOVE THE TOP SURFACE OF THE CONCRETE

3. THROUGH-PENETRANT — ONE METALLIC PIPE, TUBE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PENETRANT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-7/8 IN. PENETRANT MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PENETRANTS MAY BE USED:

A. STEEL PIPE — NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL B. IRON PIPE — NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE. C. COPPER PIPE — NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER

D. COPPER TUBING — NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER E. CONDUIT — NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT. F. CONDUIT — NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING

4. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE

A. PACKING MATERIAL — MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR SLEEVE OR FROM BOTH SURFACES OF WALL OR SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. B. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 1/4 IN. THICKNESS OF FILL

MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR SLEEVE OR WITH BOTH SURFACES OF WALL OR SLEEVE. AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PENETRANT AND CONCRETE OR SLEEVE, A MIN 1/4 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE OR SLEEVE/ PIPE PENETRANT INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL.

1 & 2 HOUR GYB WALL/CEILING PENETRATION DETAIL

UL# WL-1175 NO SCALE

SECTION A-A

1. WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE

FOLLOWING CONSTRUCTION FEATURES: A. A. STUDS - WALL FRAMING SHALL CONSIST OF EITHER WOOD STUDS OR CHANNEL SHAPED STEEL STUDS. WOOD STUDS TO CONSIST OF 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE, FABRICATED FROM MIN 25 MSG GALVANIZED STEEL, SPACED MAX 24 IN.

B. B. WALLBOARD, GYPSUM - 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, NUMBER OF LAYERS AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 13 IN. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF

METALLIC PIPES, CONDUITS OR TUBING MAY BE USED: A. STEEL PIPE - NOM 8 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. B. IRON PIPE - NOM 8 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

C. CONDUIT - NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. 3. PIPE COVERING - NOM 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) FIBERGLASS PIPE COVERING WITH AN ALL-SERVICE JACKET. PIPE COVERING MATERIAL TO BE MIN 9 IN. LONG AND INSTALLED ON PENETRANT TO EXTEND 2 IN. BEYOND BOTH SIDES OF WALL SURFACE. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP (SSL) TAPE. THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 3/8 IN. SEE PIPE AND EQUIPMENT COVERING-MATERIALS (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE

A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED. 4. FILL, VOID OR CAVITY MATERIAL - SEALANT - IN 1 HR ASSEMBLIES, MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS FLUSH WITH BOTH SURFACES OF WALL. IN 2 HR ASSEMBLIES, MIN 1-1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS FLUSH WITH BOTH SURFACES OF WALL. FOR BOTH 1 AND 2 HR ASSEMBLIES, AT POINT CONTACT LOCATION BETWEEN INSULATION AND GYPSUM, A MIN 1/2 IN. BEAD OF FILL MATERIAL SHALL BE

APPLIED ON BOTH SIDES OF WALL.

COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE

UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND



3330 Preston Ridge RD. Suite 380 Alphretta, GA 30005

ENGINEERING 6991 Peachtree Industrial Blvd Building 700 Norcross, Georgia 30092 404.330.9798

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No. DATE DESCRIPTION 01/09/2019 PERMIT/BID DOCUMENT

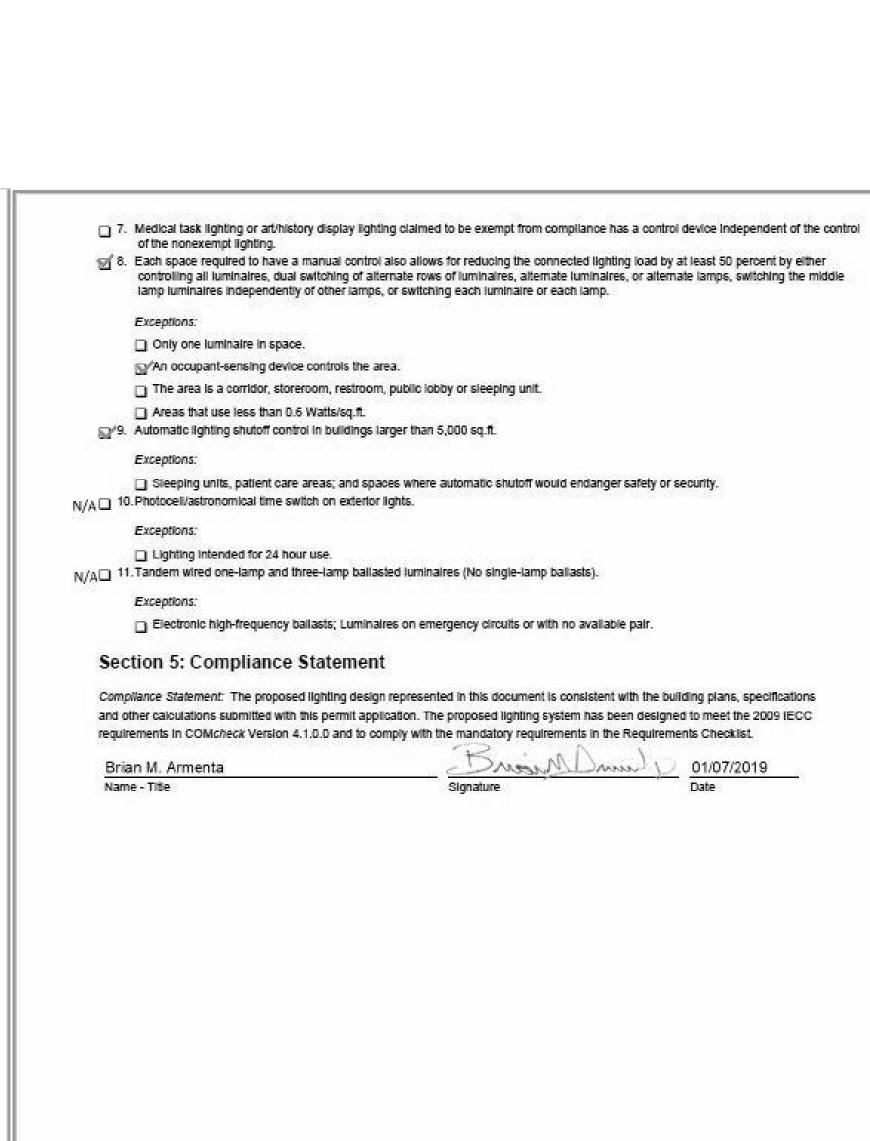
Drawn By Checked By

Job No. 18011DG

GENERAL

Sheet Title

Sheet No.



COMcheck Software Version 4.1.0.0

Owner/Agent:

Section 1: Project Information

Project Title: LUMPKIN COUNTY SENIOR CENTER

Section 2: Interior Lighting and Power Calculation

Area Category

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast

Allowed Watts Proposed Watts Complies 2200

Daylight zones have individual lighting controls independent from that of the general area lighting.

Areas designated as security or emergency areas that must be continuously illuminated.

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Lighting in stairways or corridors that are elements of the means of egress.

YES

Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to

Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device. ☐ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a

Section 3: Interior Lighting Fixture Schedule

Energy Code: 2009 IECC

266 MECHANICSVILLE RD.

No Room Specified (Gymnasium)

No Room Specified (Gymnasium 6492 sq.ft.)

LED: A: 2x4 LED RECESSED TROFFER: Other:

Section 4: Requirements Checklist

Controls, Switching, and Wiring:

Exceptions:

Interior Lighting PASSES: Design 69% better than code.

separate switch for general area lighting.

5. Master switch at entry to hotel/motel guest room.

6. Individual dwelling units separately metered.

Project Title: LUMPKIN COUNTY SENIOR CENTER

4. Independent controls for each space (switch/occupancy sensor).

1. Total proposed watts must be less than or equal to total allowed watts.

DAHLONEGA, GA 30533

Project Type: Addition

Construction Site:

Interior Lighting Compliance
Certificate

Designer/Contractor:

Allowed Watts Watts / ft2 (B x C)

1.1 7141 Total Allowed Watts = 7141

B C D E

Fixture Fixtures Watt.

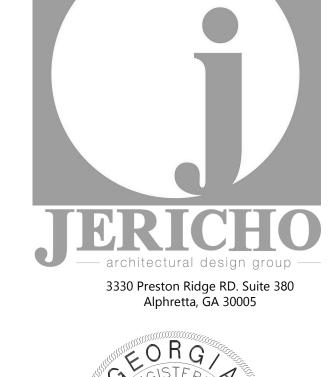
Lamps/ # of Fixture (C X D)

1 55 40 2200 Total Proposed Watts = 2200

Report date: 01/07/19

Page 1 of 2

Floor Area







PRINT RECORD

No.	DATE	DESCRIPTION						
	01/09/2019	PERMIT/BID						
		DOCUMENT						

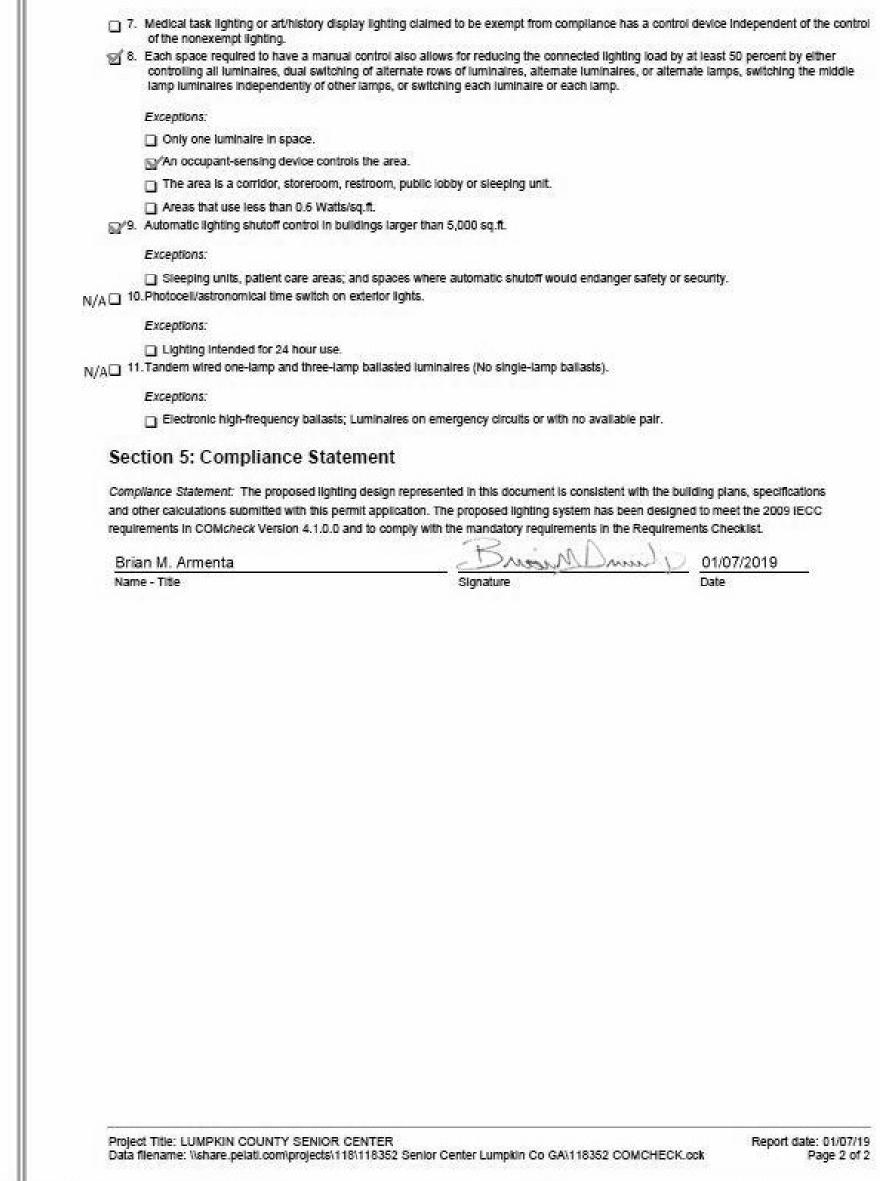
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SCHEDULES AND ONE-LINE DIAGRAM

Sheet No.

E-0.02

RELEASED FOR CONSTRUCTION



Page 2 of 2

GENE	RAL SC	HEDULE				
CALLOUT	SYMBOL	VOLTS	KVA	CIRCUIT	WIRE CALLOUT	DISCONNECT DESCRIPTION
CU-1		208/120V 2P 3W	5.72	LB-32,34	3/4"C,2#8,#8N,#10G	60A/2P/NEMA 3R
CU-2		208/120V 2P 3W	4.35	LB-36,38	3/4"C,2#8,#8N,#10G	60A/2P/NEMA 3R
FCU-1		208/120V 2P 3W	15.87	LB-29,31	1-1/4"C,2#2,#2N,#8G	100A/2P/NEMA 1
FCU-2		208V 3P 4W	17.18	LB-33,35,37	1"C,3#6,#6N,#10G	60A/3P/NEMA 1

21.5

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MODEL	VOLTS
		(1) 40W LED	2x4 LED RECESSED TROFFER	LITHONIA 2GTL-4-40L-EZ1	120V 1P 2W
		(1) 35W LED	CEILING FAN	TO BE DETERMINED	120V 1P 2W

KEYNOTES

ROOM

NOTE

MOUNTING SURFACE

FED FROM EX EQUIP

KVA CIRCUIT DESCRIPTION

RECEPTACLE

RECEPTACLE

RECEPTACLE

0.5 LIGHTING

0.1 LIGHTING

0.0 SPACE

0.0 SPACE

0.0 SPACE

0.0 SPACE

0.0 SPACE

0.0 SPACE

15.9 FCU-1

17.2 FCU-2

0.0 SPACE

LARGEST MOTOR 17.2

OTHER MOTORS 25.9

RECEPTACLES 4.1

SPACE

Panel

CKT CKT

BKR

1 20/1

3 20/1

5 20/1

7 20/1

9 20/1

11 20/1

13 20/1

15 20/1

17 20/1

19 20/1

21 20/1

23 20/1

25 20/1

27 20/1

29 80/2

33 | 50/3

39 20/2

31 | |

35 | |

41 |

0.2

0.0

ONE-LINE DIAGRAM

EXISTING DISTRIBUTION EQUIPMENT

2-1/2"C, 3#4/0, #4/0N, #4G

BUS: 225 A

MAIN: MLO

AIC: 22,000

NEW PANEL LB

208Y/120V 3P 4W

DEMAND: 53.7 KVA

1) CONTRACTOR SHALL CONFIRM IN FIELD ADDITIONAL LOAD SHOWN ON NEW PANEL CAN BE ACCOMMODATED TO EXISTING DISTRIBUTION SYSTEM AND WILL NOT OVERLOAD EXISTING ELECTRICAL SYSTEM. CONTRACTOR SHALL CONFIRM THIS IS ALLOWED WITH THE PLAN REVIEWER PRIOR TO CONNECTING TO EXISTING SYSTEM. PROVIDE 200A/3P BREAKER AT EXISTING DISTRIBUTION SYSTEM WITH #4 /0 PHASE

VOLTS 208Y/120V 3P 4W

CKT CKT LOAD

1.1

c 6 20/1 0.7 RECEPTACLE

a 8 20/1 0.8 LIGHTING

b 10 20/1 0.3 LIGHTING

c 12 20/1 0.0 SPACE

a 14 20/1 0.0 SPACE

b 16 20/1 0.0 SPACE

b 22 20/1 0.0 SPACE

c 24 20/1 0.0 SPACE

a 26 20/1 0.0 SPACE

b 28 20/1 0.0 SPACE

c 30 20/1 0.0 SPACE

a 32 40/2 5.7 CU-1

c 36 35/2 4.3 CU-2

b 40 20/2 0.0 SPACE

NONCOIN/DIVERSE 0.0

TOTAL KVA 49.0

BALANCED THREE PHASE AMPS 149.0

BUS AMPS 225

NEUTRAL 100%

a 2 20/1

b 4 20/1

c 18 20/1

a 20 20/1

b 34 | |

a 38 | |

(125%) HEATING

25.9 (100%) NONCONTINUOUS 0.0

4.1 (50%>10) KITCHEN EQUIP 0.0

PHASE BALANCE PERCENT: PHASE A 130% PHASE B 62.8% PHASE C 107%

AIC 22,000

BKR KVA CIRCUIT DESCRIPTION

0.9 RECEPTACLE

0.0 SPACE

0.0 SPACE

RECEPTACLE

MAIN BKR MLO

LUGS STANDARD

AND NEUTRAL WIRES AND #4 GROUND WIRES IN 2-1/2"C.

FIRE ALARM NOTES

FIRE ALARM DEVICES ON PLAN ARE SHOWN FOR PURPOSE OF REFERENCE ONLY. FIRE ALARM CONTRACTOR SHALL PRODUCE SHOP DRAWINGS DETAILING LOCATIONS, INTERCONNECTION OF DEVICES AND METHODS, BATTERY CALCULATION AND ETC. TO BE SUBMITTED FOR DEPMIT DEVICES.

FIRE ALARM SHOP DRAWINGS SHALL BE PREPARED BY MINIMUM NICET LEVEL III OR IV CERTIFIED PERSONNEL, DEPENDING ON LOCAL JURISDICTION REQUIREMENTS.

CONTRACTOR SHALL COORDINATE WITH EXISTING FIRE ALARM SYSTEM IN OPERATION. ALL NEW FIRE ALARM NOTIFICATION AND ANNUNCIATION DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM CONTROL

GENERAL NOTES

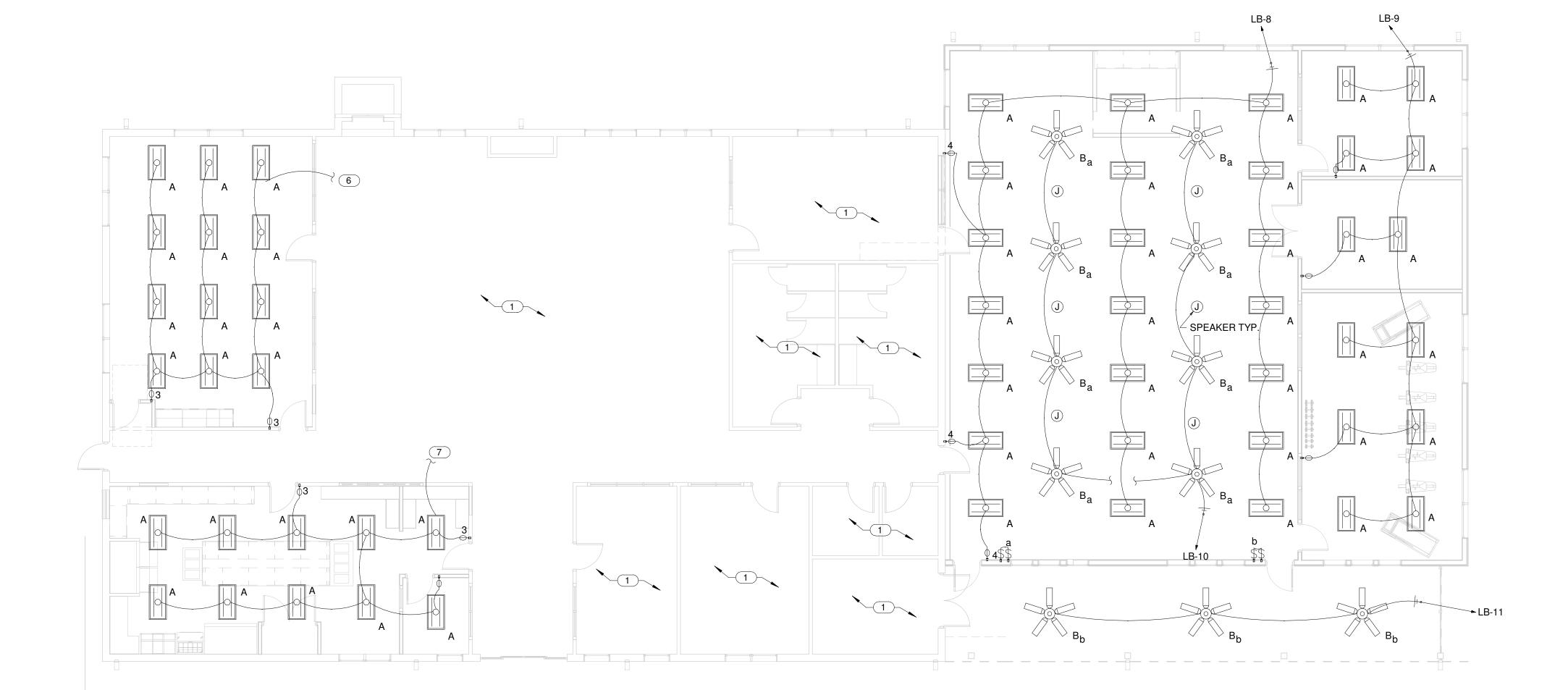
REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

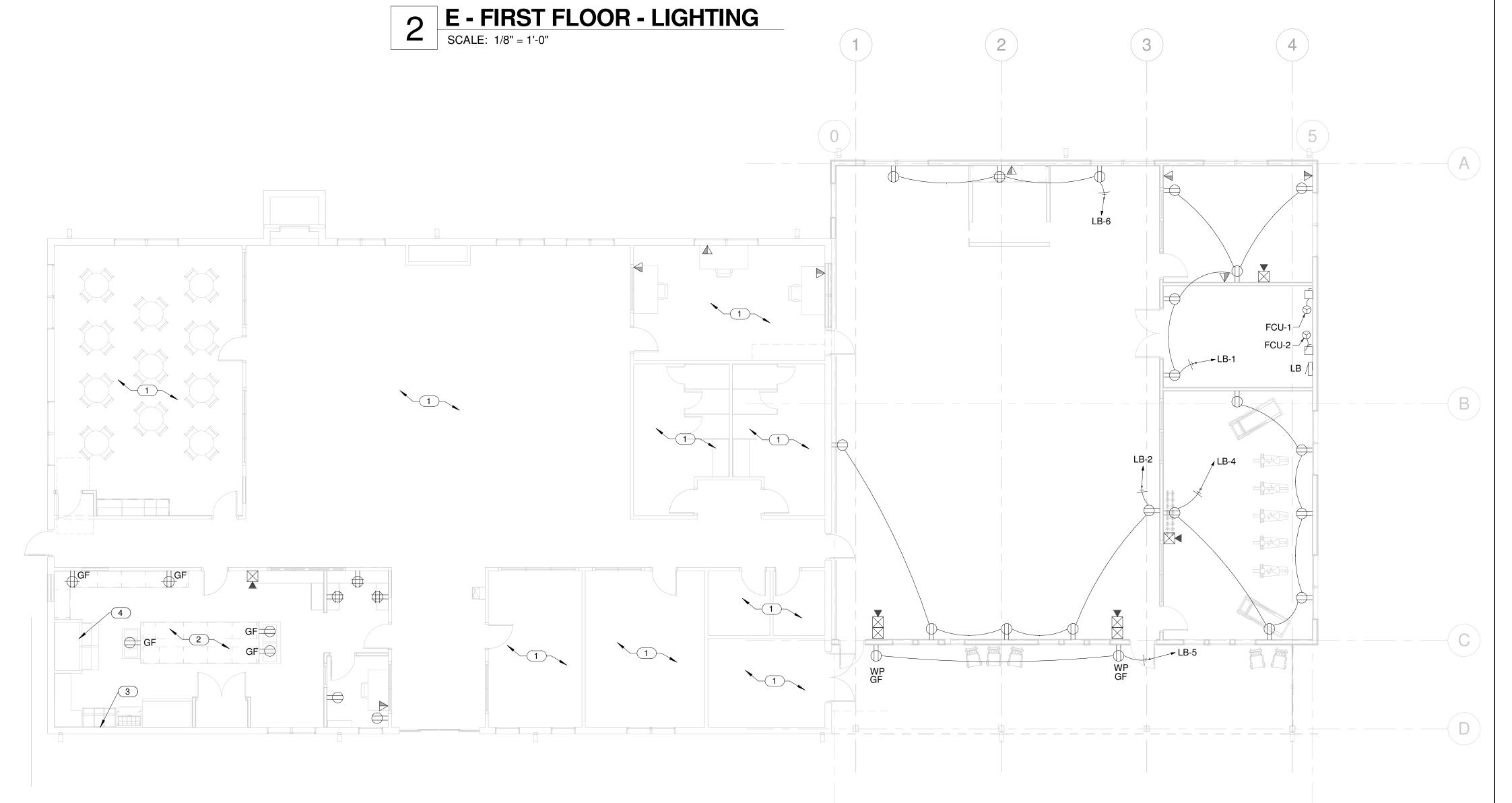
ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE

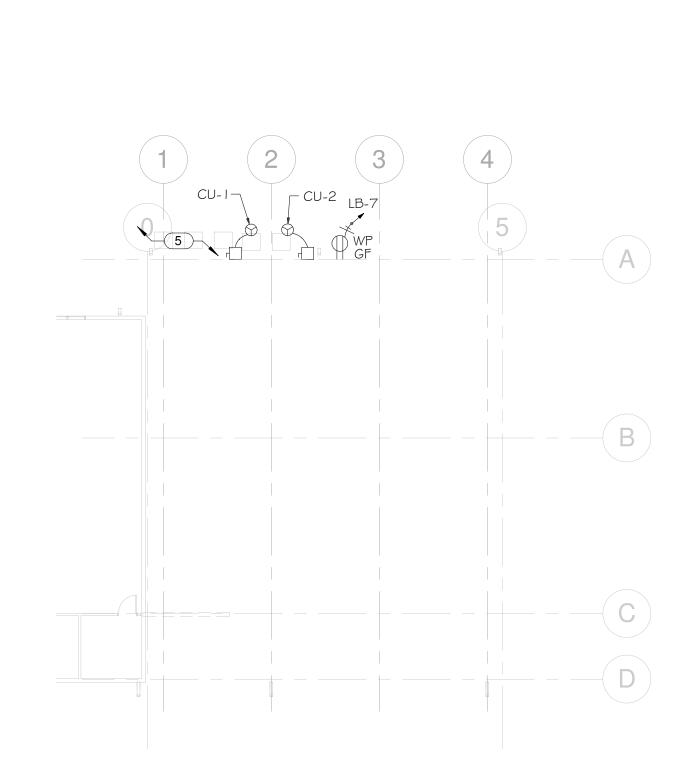
PROVIDE UNSWITCHED HOT LEG OF CIRCUIT TO EMERGENCY LIGHTING AND EXIT SIGNS.

KEYNOTES

- EXISTING ELECTRICAL EQUIPMENT IN THIS AREA TO REMAIN
- 2 EXISITNG CIRCUITS IN AREA ARE TO BE REUSED. COORDINATE LOCATION AND STATUS OF EXISTING CONDITIONS AND EXTEND CIRCUITS AS NECESSARY IN FIELD.
- 3 EXISTING RECEPTACLES TO REMAIN ON EXISTING WALLS.
- 4 EXISTING KITCHEN EXHAUST HOOD IS TO BE DISCONNECTED.
- 5 EXISTING HVAC OUTDOOR UNITS ARE TO BE RELOCATED TO THIS AREA. HVAC OUTDOOR UNITS ARE TO MAINTAIN CIRCUITING. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
- 6 LIGHTING FIXTURES IN AREA WILL BE ONE TO ONE REPLACEMENT. NEW FIXTURES WILL BE LOWER WATTAGE AND MORE EFFECIENT THAN EXISTING. LIGHTING FIXTURES TO MAINTAIN CIRCUITING TO EXISTING LIGHTING CIRCUIT IN AREA.
- 7 LIGHTING FIXTURE LOCATIONS IN AREA TO BE COORDINATED WITH ARCHITECTURAL RCP. NEW FIXTURES WILL BE LOWER WATTAGE AND MORE EFFECIENT THAN EXISTING. LIGHTING FIXTURES TO BE CIRCUITED TO EXISITNG LIGHTING CIRCUIT IN AREA.







3 E - BASEMENT - POWER

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

1 E - FIRST FLOOR - POWER







PKIN COUNTY SENIOR CENTEI

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