AZALEA REGIONAL LIBRARY SYSTEM

O'KELLY MEMORIAL LIBRARY

LOGANVILLE, GEORGIA

Issue Date/ Description: 2024.06.28 CONSTRUCTION DOCS PRICING
MPS Project No: 023432
Agency Review ID:

FOR REFERENCE ONLY

OWNER

AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVE
MADISON, GA 30650

STACY BROWN
SBROWN@AZALEALIBRARIES.ORG

ARCHITECT

McMILLAN PAZDAN SMITH ARCHITECTURE
434 MARIETTA ST NE STE 105
ATLANTA, GA 30313
(678) 251-4602

AMANDA GASCON
AGASCON@MCMILLANPAZDANSMITH.COM

CIVIL & LANDSCAPE

FORESITE GROUP, LLC
3740 DAVINCI CT STE 100
PEACHTREE CORNERS, GA 30092
(770) 368-1399

JONATHAN BULLARD
JBULLARD@FG-INC.NET

STRUCTURAL

WALLACE DESIGN COLLECTIVE
1455 LINCOLN PARKWAY E STE 260
ATLANTA, GA 30346
(404) 303-8317

KEVIN SMITH
KEVIN.SMITH@WALLACE.DESIGN

MEP+FP

GTP CONSULTING ENGINEERS
4197 PLEASANT HILL RD
DULUTH, GA 30096

CRAIG GOLDSTEIN
CGOLDSTEIN@GTP-ENG.COM

LOW VOLTAGE

TLC ENGINEERING SOLUTIONS
4360 CHAMBLEE DUNWOODY RD STE 210
ATLANTA, GA 30341

TAW NORTH
TAW.NORTH@TLC-ENG.COM

SITE MAP

VICINITY MAP

DRAWING LIST

SHEET NO	SHEET NAME
ARCHITECTURAL	
A821	HEAD, JAMB, SILL DETAILS
GENERAL	
G001	COVER SHEET
G100	CODE SUMMARY
G110	LIFE SAFETY PLAN
CIVIL	
G-1	COVER
C	SURVEY
C-0	DEMOLITION PLAN
C-1	SITE & PAVING PLAN
C-1.1	STAKING PLAN
C-2	GRADING & DRAINAGE PLAN
C-2.2	STORM DRAIN PROFILES
C-2.3	STORM DRAIN PROFILES
C-2.4	DRAINAGE DETAILS
C-2.5	DRAINAGE DETAILS
C-2.6	DRAINAGE DETAILS
C-2.7	DRAINAGE DETAILS
C-2.8	DRAINAGE DETAILS
C-3.2	SANITARY SEWER PROFILES
C-3	UTILITIES PLAN
C-3.3	UTILITY DETAILS
C-3.4	UTILITY DETAILS
C-4.1	EROSION, SEDIMETATION, & POLLUTION CONTROL COVER
C-4.2	EROSION, SEDIMETATION, & POLLUTION CONTROL NOTES
C-4.3	EROSION, SEDIMETATION, & POLLUTION CONTROL NOTES
C-4.4	INTERMEDIATE EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
C-4.5	FINAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
C-4.6	EROSION, SEDIMETATION, & POLLUTION CONTROL DETAILS
C-4.7	EROSION, SEDIMETATION, & POLLUTION CONTROL DETAILS
C-4.8	EROSION, SEDIMETATION, & POLLUTION CONTROL DETAILS
C-5	PAVING DETAILS
C-6	CONSTRUCTION DETAILS
C-6.1	CONSTRUCTION DETAILS
C-6.2	CONSTRUCTION DETAILS
LANDSCAPE	
L-1	LANDSCAPE PLAN
L-2	LANDSCAPE DETAILS
STRUCTURAL	
S001	DESIGN PARAMETERS AND GENERAL NOTES
S002	GENERAL NOTES
S110	FOUNDATION AND SLAB PLAN
S120	LOW ROOF FRAMING PLAN
S121	HIGH ROOF FRAMING PLAN
S301	FOUNDATION SECTIONS AND DETAILS
S302	GRADE SUPPORTED SLAB DETAILS
S401	COLUMN AND COLUMN BASEPLATE DETAILS
S402	BRACE FRAME ELEVATIONS AND DETAILS
S501	STEEL FRAMING SECTIONS AND DETAILS
S502	STEEL FRAMING SECTIONS AND DETAILS
S503	STEEL FRAMING SECTIONS AND DETAILS
S901	ALTERNATE
ARCHITECTURAL	
A001	ABBREVIATION, SYMBOLS AND LEGENDS
A003	WALL AND ROOF ASSEMBLIES
A010	ARCHITECTURAL SITE PLAN
A100	EDGE OF SLAB PLAN
A110	ANNOTATION PLAN
A111	DIMENSION PLAN

SHEET NO	SHEET NAME
A120	ROOF PLAN
A210	REFLECTED CEILING PLAN
A211	ENLARGED REFLECTED CEILING PLAN & DETAILS
A300	BUILDING ELEVATIONS
A320	BUILDING SECTIONS
A321	BUILDING SECTIONS
A330	WALL SECTIONS
A331	WALL SECTIONS
A332	WALL SECTIONS
A333	WALL SECTIONS
A340	SECTION DETAILS
A341	SECTION DETAILS
A360	PLAN DETAILS
A420	ENLARGED RESTROOM PLANS & ELEVATIONS
A421	ENLARGED RESTROOM PLANS & ELEVATIONS
A510	INTERIOR ELEVATIONS
A511	INTERIOR ELEVATIONS
A620	MILLWORK
A621	MILLWORK DETAILS
A800	DOOR SCHEDULE FRAMES & TYPES
A810	EXTERIOR ALUMINUM FRAMES
A811	INTERIOR ALUMINUM FRAMES
A820	HEAD, JAMB, SILL DETAILS
A910	ALTERNATE
INTERIORS	
ID100	FLOOR FINISH PLAN
ID110	WALL FINISH PLAN
ID120	FF&E PLAN
ID130	FF&E COORDINATION PLAN
ID600	WALL FINISH DETAILS
ID800	FINISH SCHEDULES / LEGENDS
PLUMBING	
P001	SCHEDULES, LEGENDS, & NOTES - PLUMBING
P002	DETAILS - PLUMBING
P110	OVERALL FLOOR PLAN - PLUMBING
P310	ROOF PLAN - PLUMBING
MECHANICAL	
M001	GENERAL NOTES - MECHANICAL
M002	LEGENDS & ABBREVIATIONS - MECHANICAL
M003	DETAILS - MECHANICAL
M004	SCHEDULES - MECHANICAL
M005	SCHEDULES - MECHANICAL
M110	FLOOR PLAN - MECHANICAL
M120	ROOF PLAN - MECHANICAL
ELECTRICAL	
E001	GENERAL NOTES - ELECTRICAL
E002	ELECTRICAL ONE-LINE & SCHEDULES
E003	ELECTRICAL SCHEDULES
E004	ELECTRICAL DETAILS
E005	ELECTRICAL DETAILS
E110	OVERALL FLOOR PLAN - ELECTRICAL - POWER
E111	ROOF PLAN - POWER & SYSTEMS
E210	REFLECTED CEILING PLAN - ELECTRICAL
ESP-01	SITE PLAN - ELECTRICAL
TECHNOLOGY	
T001	TECHNOLOGY SYMBOLS, LEGEND, NOTES & INDEX
T101	TECHNOLOGY LEVEL 01 FLOOR PLAN
T401	ENLARGED PLANS
T701	TECHNOLOGY DETAILS
T731	SECURITY DETAILS

ALTERNATES

1. **MEETING ROOM OPERABLE PARTITION**
   BASE BID: INSTALL WALL SA6 BETWEEN MEETING ROOM AND PROGRAM ROOM.

   ALTERNATE: INSTALL OPERABLE PARTITION, REQUIRED STRUCTURE, AND CEEILING SOUND BAFFLES AS INDICATED ON DRAWINGS; REF SHEET A910, S901, AND CONTROLS ON E110.

2. **WEST SIDE CANOPY**
   BASE BID: OMIT PREMANUFACTURED CANOPY AT WEST SIDE OF BUILDING

   ALTERNATE: INSTALL PREMANUFACTURED CANOPY ALONG WEST SIDE OF THE BUILDING AS DRAWN.

3. **CLERESTORY WINDOWS**
   BASE BID: OMIT CLERESTORY WINDOWS SF6 AND SF9 FROM SCOPE; INSTALL METAL PANEL FINISH TO MATCH ADJACENT CONSTRUCTION.

   ALTERNATE: PROVIDE AND INSTALL CLERESTORY WINDOWS SF8 AND SF9 AS DRAWN.

4. **CHILDREN'S PORCH FLOORING**
   BASE BID: INSTALL SLAB ON GRADE AS INDICATED IN CIVIL DRAWINGS; NO ADDITIONAL FINISH TO BE PROVIDED.

   ALTERNATE: ARCHITECT AND CIVIL ENGINEER TO COORDINATE SLAB HEIGHT TO ACCOMMODATE RUBBER FLOORING INSTALLATION AT CHILDREN'S PORCH AREA; REFERENCE ID800 FOR PRODUCT INFORMATION.

EXHIBIT "C"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

AZALEA REGIONAL LIBRARY SYSTEM

O'KELLY MEMORIAL LIBRARY

LOGANVILLE, GEORGIA

ISSUE DATE: 2024.06.28
PHASE: CONSTRUCTION DOCUMENTS

SHEET ISSUE:

NO.	DATE	DESCRIPTION
A	2024.01.17	SCHEMATIC DESIGN
B	2024.04.10	DESIGN DEVELOPMENT
C	2024.06.28	CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE: DRM
PROJECT ARCHITECT: AMG
DRAWN BY: AMG

SHEET TITLE:
COVER SHEET

SHEET NO. G001
PROJ. NO. 023432

BUILDING CODE SUMMARY

PROJECT INFORMATION:

Name of Project:	O'KELLY MEMORIAL LIBRARY		
Address:	TBD	Zip Code:	30052
Proposed Use	LIBRARY		
Owner/Authorized Agent:	AZALEA REGIONAL LIBRARY SYSTEM	Phone:	(706) 342-4974

Owned By: ■ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ■ City: LOGANVILLE ☐ County: ☐ State

PROJECT SUMMARY:

Building Description:
NEW LIBRARY BUILDING TO REPLACE THE EXISTING O'KELLY MEMORIAL LIBRARY.

LEAD DESIGN PROFESSIONAL: AMANDA GASCON, AIA

DISCIPLINE	FIRM	NAME	LICENSE#	TELEPHONE#
Architectural	McMillan Pazdan Smith	DAVID MOORE	-	(864) 242-2033
Civil	Foresite Group	JOSH CARNES	PE042709	(770) 368-1399
Landscape	Foresite Group	JONATHAN BULLARD	LA001696	(770) 368-1399
Electrical	GTP Consulting Engineers	TIMOTHY J WEISER	PE040641	(678) 579-5582
Fire Alarm	GTP Consulting Engineers	TIMOTHY J WEISER	PE040641	(678) 579-5582
Plumbing	GTP Consulting Engineers	CRAIG GOLDSTEIN	PE033182	(770) 622-0270
Mechanical	GTP Consulting Engineers	CRAIG GOLDSTEIN	PE033182	(770) 622-0270
Structural	Wallace Design Collective	KURT D SWENSSON	PE024792	(404) 303-8317
Low Voltage	TLC Engineering Solutions	TAW NORTH	-	-

TYPE OF WORK BEING PERFORMED:

IBC 2018 BUILDING CODE: ■ New Building ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

RISK CATEGORY (Table 1604.5) Current: ☐ I ☐ II ☐ III ☐ IV
Proposed: ☐ I ☐ II ■ III ☐ IV

BASIC BUILDING INFORMATION

Construction Type: (Check All That Apply) ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B* ■ II-B ☐ III-B ☐ V-B
Sprinklers: ☐ No ☐ Partial ■ Yes ■ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ■ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☐ No ■ Yes Flood Hazard Area: ■ No ☐ Yes
Special Inspections Required: ☐ No ■ Yes Contact the local inspection jurisdiction for additional procedures and requirements

GROSS BUILDING AREA: 10,833 SF

ALLOWABLE AREA

Primary Occupancy Classification: Select one
Assembly ☐ A-1 ☐ A-2 ■ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition: ☐ 1 ☐ 2
☐ I-2 Condition: ☐ 1 ☐ 2
☐ I-3 Condition: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Institutional ☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-Piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Secondary Occupancy Classification:
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition: ☐ 1 ☐ 2
☐ I-2 Condition: ☐ 1 ☐ 2
☐ I-3 Condition: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Institutional ☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-2 Low ☐ High-Piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Incidental Uses (Check All That Apply)
☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input
☐ Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
☐ Refrigerant machinery room
☐ Hydrogen fuel gas rooms, not classified as Group H
☐ Incinerator rooms
☐ Paint shops, not classified as Group H, located in occupancies other than Group F
☐ In Group E occupancies, laboratories and vocational shops not classified as Group H
☐ In Group I-2 occupancies, laboratories not classified as Group H
☐ In ambulatory care facilities, laboratories not classified as Group H
☐ Laundry rooms over 100 square feet
☐ In Group I-2, laundry rooms over 100 square feet
☐ Group I-3 cells and Group I-2 patient rooms equipped with padded surfaces
☐ In Group I-2, physical plant maintenance shops
☐ In ambulatory care facilities or Group I-2 occupancies, waste and linen collection rooms with containers that have an aggregate volume of 10 cubic feet or greater
☐ In other than ambulatory care facilities and Group I-2 occupancies, waste and linen collection rooms over 100 square feet
☐ In ambulatory care facilities or Group I-2 occupancies, storage rooms greater than 100 square feet
☐ Stationary storage battery systems having an energy capacity great than the threshold quantity specified in Table 1206.2 of the international Fire Code.
☐ Electrical installations and transformers

Special Uses: ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427 ☐ 428

Special Provisions: ☐ 510.2 ☐ 510.3 ☐ 510.4 ☐ 510.5 ☐ 510.6 ☐ 510.7 ☐ 510.8 ☐ 510.9

Mixed Occupancy: ■ No ☐ Yes Separation: - Exception:
■ Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
☐ Separated Use (508.4) - See below for area calculations
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

STORY NO. -	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	LIBRARY	10,833 SF	38,000 SF	N/A	38,000 SF
TOTAL		10,833 SF	38,000 SF	N/A	38,000 SF

1 Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = N/A (F)
b. Total Building Perimeter = N/A (P)
c. Ratio (F/P) = N/A (F/P)
d. W = Minimum width of public way = N/A (W)
e. Percent of frontage increase I=+ 100 [F/P - 0.25] x W/30 = N/A (%)
2 Unlimited area applicable under conditions of Sections 507.
3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
4 The maximum area of open parking garages must comply with Table 406.5.4.
5 Frontage increase is based on the unsprinklered area value in Table 506.2
6 Frontage increase not calculated for this project.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3) [2]	75'-0"	22'-1"	504.3
Building Height in Stories (Table 504.4) [3]	3	1	504.4

1 Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4
2 The maximum height of air traffic control towers must comply with Table 412.3.1.
3 The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D (HR.)	RATING PROVIDED (IBC REDUCTION) EXISTING	RATING PROVIDED (IBC REDUCTION) NEW	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY EXISTING	DESIGN # FOR RATED ASSEMBLY NEW	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural frame, Including columns, girders, trusses		-	-	0	-	-		-	-
Bearing walls									
Exterior									
North	X > 30	-	-	0	-	-	-	-	-
East	X > 30	-	-	0	-	-	-	-	-
West	X > 30	-	-	0	-	-	-	-	-
South	X > 30	-	-	0	-	-	-	-	-
Interior		-	-	0	-	-	-	-	-
Nonbearing Walls and Partitions									
Exterior									
North	X > 30	-	-	0	-	-	-	-	-
East	X > 30	-	-	0	-	-	-	-	-
West	X > 30	-	-	0	-	-	-	-	-
South	X > 30	-	-	0	-	-	-	-	-
Interior walls and partitions		-	-	0	-	-	-	-	-
Floor construction Including supporting beams and joists		-	-	0	-	-	-	-	-
Floor Ceiling Assembly		-	-	0	-	-	-	-	-
Columns Supporting Floors		-	-	0	-	-	-	-	-
Roof construction Including supporting beams and joists		-	-	0	-	-	-	-	-
Roof Ceiling Assembly		-	-	0	-	-	-	-	-
Columns Supporting Roof		-	-	0	-	-	-	-	-
Shafts Enclosures - Exit		-	-	0	-	-	-	-	-
Shafts Enclosures- Other		-	-	0	-	-	-	-	-
Corridor Separation		-	-	0	-	-	-	-	-
Occupancy/Fire Barrier Separation		-	-	0	-	-	-	-	-
Party/Fire Wall Separation		-	-	0	-	-	-	-	-
Smoke Barrier Separation		-	-	0	-	-	-	-	-
Smoke Partition		-	-	0	-	-	-	-	-
Tenant/Dwelling Unit Sleeping Unit Separation		-	-	0	-	-	-	-	-
Incidental Use Separation		-	-	N/A	-	-	-	-	-

*Indicate section permitting reduction:

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE FROM PROPERTY LINES (FEET)	DEGREE OF OPENING PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
PLAN NORTH WALL = + 30' - 0"	UP/S	NO LIMIT	-
PLAN SOUTH WALL = + 30' - 0"	UP/S	NO LIMIT	-
PLAN WEST WALL = + 30' - 0"	UP/S	NO LIMIT	-
PLAN EAST WALL = + 30' - 0"	UP/S	NO LIMIT	-

LIFE SAFETY SYSTEM REQUIREMENTS*:

Emergency Lighting: ☐ No ■ Yes
Exit Signs: ☐ No ■ Yes
Fire Alarm: ☐ No ■ Yes
Smoke Detection Systems: ☐ No ■ Yes ☐ Partial: _____
Carbon Monoxide Detection ■ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # G110

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Occupancy use of each area as it relates to occupant load calculation (Table 1004.5)
☐ Occupant loads for each area
☐ Exit sign locations (1013)
☐ Exit access travel distances (1017)
☐ Common path of travel distances (Table 1006.2.1 & Table 1006.3.2)
☐ Dead end lengths (1020.4)
☐ Clear exit widths for each exit door
☐ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☐ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.8)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above
-

BUILDING OCCUPANT LOAD

AREA NAME	AREA SF	SF PER OCCUPANT	OCCUPANT LOAD
ASSEMBLY			
BOOK SALE	167 SF	15	12
TEEN	119 SF	15	8
MEETING ROOM	951 SF	15	64
PROGRAM ROOM	604 SF	15	41
BUSINESS			
STAFF WORKROOM	1,031 SF	150	7
CLASSROOM			
GROUP STUDY	96 SF	20	5
GROUP STUDY	94 SF	20	5
GROUP STUDY	94 SF	20	5
READING ROOM			
HERITAGE ROOM	118 SF	50	3
LIBRARY SEATING	1,327 SF	50	27
LIBRARY SEATING - CHILDREN	1,861 SF	50	38
STACK AREA			
LIBRARY STACKS	1,287 SF	100	13
STORAGE			
SHIPPING AND RECEIVING	348 SF	300	2
JANITOR	63 SF	300	1
MEETING STORAGE	173 SF	300	1
UTILITIES			
RISER ROOM	70 SF	300	1
MECHANICAL	93 SF	300	1
ELECTRICAL	70 SF	300	1
			235

SPECIAL APPROVALS

SPECIAL APPROVAL: (Local Jurisdiction, Department of Insurance, OSC, DPI, DFS, ICC, etc., describe below)
N/A

PLUMBING FIXTURE REQUIREMENTS (2018 IPC SECTION 403)

OCCUPANCY USE GROUP AND/OR SPACE DESIGNATION	WATER CLOSET MALE (118)	WATER CLOSET FEMALE (118)	LAVATORIES MALE (118)	LAVATORIES FEMALE (118)	FAMILY TLT	DRINKING FOUNTAINS	OTHER
A-3 LIBRARY 235 OCCUPANTS	1 PER 125 = 1	1 PER 65 = 2	1 PER 200 = 1			1 PER 500 = 1	1 SERVICE SINK
	PROVIDED		PROVIDED		PROVIDED	PROVIDED	PROVIDED
	4	4	2	2	1	1	1

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs. annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ■ Yes, (The remainder of this section is not applicable)
Exempt Building: ■ No ☐ Yes, (Provide code or statutory reference): _____
Climate Zone: ■ 3A ☐ 4A ☐ 5A
Method of Compliance: Energy Code ☐ Performance ■ Prescriptive
ASHRAE 90.1 ☐ Performance ■ Prescriptive

THERMAL ENVELOPE: (Prescriptive method only)

Roof/Ceiling Assembly (RF-1)
Description of assembly: TPO ON RIGID INSUL ON ACOUSTIC MTL DECK
U-Value of total assembly: .032
R-Value of insulation: MIN R-30
Skylights in each assembly: N/A
U-Value of skylight: N/A
Total square footage of skylights in each assembly: N/A

(RF-2)
Description of assembly: TPO ON RIGID INSUL ON MTL DECK
U-Value of total assembly: .032
R-Value of insulation: MIN R-30
Skylights in each assembly: N/A
U-Value of skylight: N/A
Total square footage of skylights in each assembly: N/A

Exterior Walls
Description of assembly: 6" STEEL-FRAMED, 16" OC
U-Value of total assembly: TBD
R-Value of insulation: 19 CAVITY INSUL; 12 CONT INSUL
Openings (windows/doors with glazing)
U-Value of assembly: .24
Solar Heat Gain Coefficient: .22
Projection factor: 0
Door R-Values: R-1.6 STOREFRONT R-2.6 HOLLOW METAL

Floors slab on grade
Description of assembly: 4" CONCRETE SLAB ON GRADE
U-Value of total assembly: N/A
R-Value of insulation: N/A
Horizontal/Vertical requirement: N/A
Slab heated: 0

BUILDING CODE -
2018 ICC INTERNATIONAL BUILDING CODE
2018 ICC INTERNATIONAL FIRE CODE
2018 ICC INTERNATIONAL FUEL GAS CODE
2018 ICC INTERNATIONAL MECHANICAL CODE
2018 ICC INTERNATIONAL PLUMBING CODE
2017 ANSI A117.1 ACCESSABILITY GUIDELINES
2017 NFPA 70 NATIONAL ELECTRIC CODE
2015 IECC CONSERVATION CODE WITH GA STATE SUPPLEMENTS
2009 ASHRAE STANDARD 90

Seismic Category - D

mcmillan pazdan smith ARCHITECTURE
CONSULTANT LOGO
SEALS

AZALEA REGIONAL LIBRARY SYSTEM

O'KELLY MEMORIAL LIBRARY
LOGANVILLE, GEORGIA

ISSUE DATE: 2024.06.28
PHASE: CONSTRUCTION DOCUMENTS

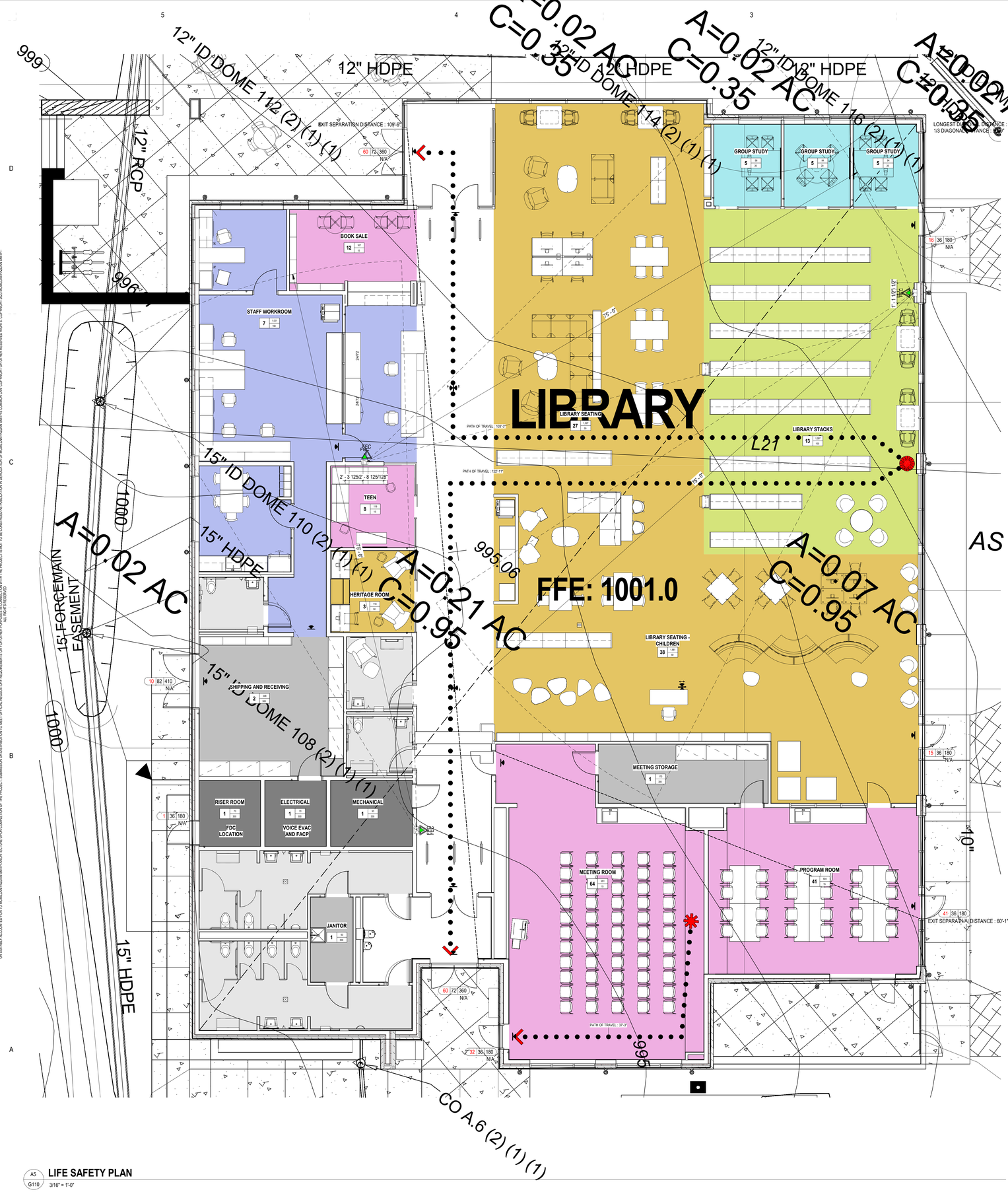
SHEET ISSUE:

NO.	DATE	DESCRIPTION
A	2024.01.17	SCHEMATIC DESIGN
B	2024.04.10	DESIGN DEVELOPMENT
C	2024.06.28	CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE: DRM
PROJECT ARCHITECT: AMG
DRAWN BY: AMG

SHEET TITLE:
CODE SUMMARY

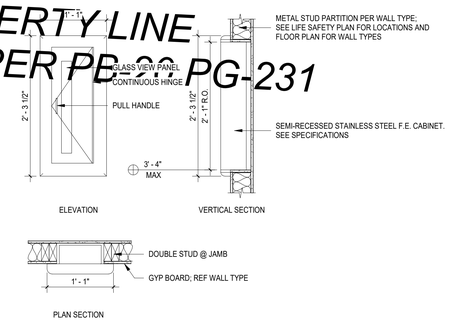
SHEET NO. G100
PROJ. NO. 023432



A5 G110 **LIFE SAFETY PLAN**
3/16" = 1'-0"

PROPERTY LINE
AS SHOWN PER PB 26 PG-231

TYP. FIRE EXTINGUISHER CABINET



OCCUPANCY LEGEND

- ASSEMBLY
- BUSINESS
- CIRCULATION
- CLASSROOM
- READING ROOM
- RESTROOM
- STACK AREA
- STORAGE
- UTILITIES

LIFE SAFETY LEGEND

000 00 000
- DOOR EGRESS TAG
- MAX. OCCUPANT CAPACITY OF EXIT
- WIDTH OF EXIT
- POTENTIALLY EXITING OCCUPANTS

PEOPLE PER EXIT x EGRESS PER OCCUPANT (IN.) = EGRESS WIDTH (IN.)

- COMMON PATH OF TRAVEL
- TRAVEL PATH
- EGRESS SIGNAGE
- FEC — FIRE EXTINGUISHER CABINET - SEMI-RECESSED

FIRE RATING AND FIRE PROOFING NOTES :

1. FIRE CAULK PARTITION TIGHT TO FLOOR AND DECK. FILL VOID AT DECK WITH COMPRESSIBLE FIRE SEAL.
2. MAINTAIN ALL FIRE RATED ASSEMBLIES. PENETRATIONS AND SEALING METHODS TO BE UL RATED. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS.
3. MAX TRAVEL DISTANCE TO A FIRE EXTINGUISHER IS 75'. (MAINTAIN WALL RATING AT EXTINGUISHER CABINETS).
4. PROVIDE NFPA APPROVED KNOX BOX (COORDINATE AN APPROVED LOCATION WITH THE FIRE MARSHAL).

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

AZALEA REGIONAL LIBRARY SYSTEM

O'KELLY MEMORIAL LIBRARY

LOGANVILLE, GEORGIA

ISSUE DATE:	2024.06.28
PHASE:	CONSTRUCTION DOCUMENTS

SHEET ISSUE:

NO.	DATE	DESCRIPTION
B	2024.04.10	DESIGN DEVELOPMENT
C	2024.06.28	CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE:	DRM
PROJECT ARCHITECT:	AMG
DRAWN BY:	KW

SHEET TITLE:

LIFE SAFETY PLAN

SHEET NO. G110

PROJ. NO. 023432

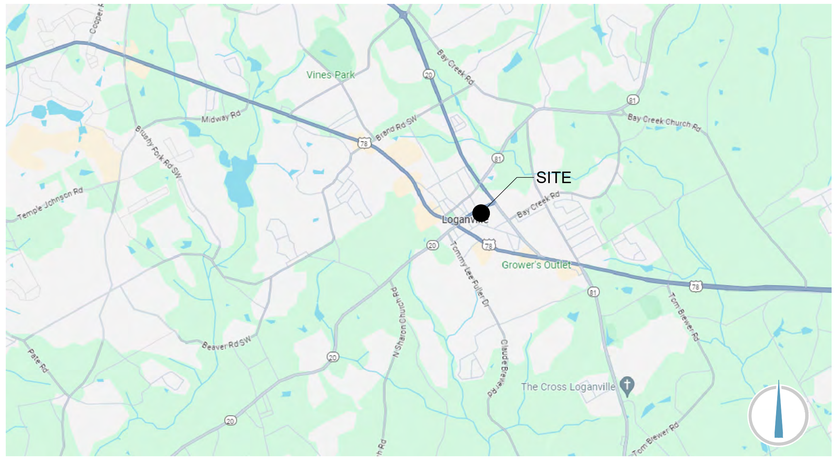
SITE DEVELOPMENT PLANS FOR:

O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS

210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4, PARCEL #: LG050055, LG050057
ZONED: CBD (COMMERCIAL BUSINESS DISTRICT),
MSO (MAIN STREET OVERLAY DISTRICT) , PERMIT #

Sheet List Table

G-1	COVER
V-1	SURVEY
C-0	DEMOLITION PLAN
C-1	SITE & PAVING PLAN
C-1.1	STAKING PLAN
C-2	GRADING & DRAINAGE PLAN
C-2.2	STORM DRAINAGE PROFILES
C-2.3	STORM DRAINAGE PROFILES
C-2.4	DRAINAGE DETAILS
C-2.5	DRAINAGE DETAILS
C-2.6	DRAINAGE DETAILS
C-2.7	DRAINAGE DETAILS
C-2.8	DRAINAGE DETAILS
C-3	UTILITIES PLAN
C-3.2	SANITARY SEWER PROFILES
C-3.3	UTILITY DETAILS
C-3.4	UTILITY DETAILS
C-4	EROSION, SEDIMENTATION, & POLLUTION CONTROL COVER
C-4.1	EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES
C-4.2	EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES
C-4.3	INITIAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
C-4.4	INTERMEDIATE EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
C-4.5	FINAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
C-4.6	EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS
C-4.7	EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS
C-4.8	EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS
C-5	PAVING DETAILS
C-6	CONSTRUCTION DETAILS
C-6.1	CONSTRUCTION DETAILS
C-6.2	CONSTRUCTION DETAILS
L-1	LANDSCAPE PLAN
L-2	LANDSCAPE DETAILS



VICINITY MAP
NOT TO SCALE

SITE DISTURBED AREA = 1.97 AC

PROJECT SUMMARY:
PROJECT INCLUDES A PROPOSED LIBRARY BUILDING, PARKING LOT, SIDEWALKS, GRAVEL SEATING AREAS, LIGHTING, PROPOSED UTILITIES, AND LANDSCAPING.

PROJECT DIRECTORY

OWNER
CITY OF LOGANVILLE
PO BOX 39
LOGANVIILLE, GA. 30052

CONTACT:

DEVELOPER
AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA. 30650
706-342-4974
CONTACT: STACY BROWN

CIVIL ENGINEER/LANDSCAPE ARCHITECT
FORESITE GROUP, LLC.
3740 DAVINCI CT. SUITE 100
PEACHTREE CORNERS, GA 30092
770-368-1399
CONTACT: JONATHAN BULLARD

ARCHITECT
MCMILLAN PAZDAN SMITH ARCHITECTURE
1200 PEACHTREE ST NE SUITE 750,
ATLANTA, GA 30309
678-251-4602
CONTACT: AMANDA GASCON, AIA, NCARB

SURVEYOR
PROFESSIONAL LAND SURVEYORS, LLC.
317 GRASSDALE ROAD
CARTERSVILLE, GA 30120
770-334-8186
CONTACT: MITCH LOWERY, LS

LOCAL ISSUING AUTHORITY
LOGANVILLE PLANNING & DEVELOPMENT
4303 LAWRENCEVILLE RD,
LOGANVILLE, GA 30052
770-466-2633
CONTACT: TIM PRATER

GEOTECHNICAL ENGINEER
NOVA
1859 BEAVER RIDGE CIRCLE, SUITE B
NORCROSS, GA 30071
770-696-1414
CONTACT: RANDALL L. BAGWELL

UTILITY PROVIDERS

WATER SERVICE & SANITARY SEWER SERVICE PROVIDER
CITY OF LOGANVILLE
4895 HWY. 81 NORTH,
LOGANVILLE, GA 30052
(770) 446-0911
CONTACT:

POWER PROVIDER
GEORGIA POWER

770-550-7219
CONTACT: MIKE CLARK

GAS SERVICE PROVIDER
CITY OF LAWRENCEVILLE
435 W PIKE STREET
LAWRENCEVILLE, GA 30046
770-560-5530
CONTACT: ----

TELEPHONE SERVICE PROVIDER
AT&T

305-409-1542
CONTACT:

PREPARED BY:

FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

24 HR CONTACT:
STACY BROWN
706-342-4974

ISSUED:
JULY 12, 2024
2184.001

CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY UPON COMPLETION OF INITIAL EROSION BMP'S AS SHOWN ON EROSION SHEETS IN ORDER FOR ENGINEER TO SCHEDULE THE INITIAL 7 DAY EROSION CONTROL INSPECTION. THE CONTRACTOR SHALL VERIFY THAT ALL EXISTING INITIAL BMP'S ARE INSTALLED PROPERLY. ALL COMPENSATION FOR DESIGN ENGINEER'S REINSPECTION TO VERIFY THAT THE INITIAL BMP'S ARE PROPERLY INSTALLED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CERTIFICATION STATEMENT:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF THE BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001. ADDITIONALLY, I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."

SIGNATURE OF ENGINEER	DATE
0000077160	2027-8-28
CERTIFICATION #	EXPIRATION

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

SIGNATURE OF PRIMARY PERMITEE	DATE

AS USED HEREIN, THE WORD *CERTIFY* SHALL MEAN AN EXPRESSION OF THE CONSULTANT'S PROFESSIONAL OPINION TO THE BEST OF ITS INFORMATION, KNOWLEDGE, AND BELIEF, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE BY THE CONSULTANT.

ANTICIPATED ACTIVITY SCHEDULE
BEGIN CONSTRUCTION: 11/01/2024
END CONSTRUCTION: 11/01/2025

	ACTIVITY	2.0 MTH	4.0 MTH	6.0 MTH	8.0 MTH	10.0 MTH	12.0 MTH
1	INSTALL SEDIMENT CONTROLS						
2	DEMOLITION						
3	CLEARING, GRUBBING, & GRADING						
4	GRASS TEMP.						
5	BUILDING CONSTRUCTION						
6	MAINTAIN EROSION CONTROL						
7	PAVING						
8	FINAL LANDSCAPING						
9	DISPOSITION OF TEMP. SEDIMENT CONTROLS						

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

ENGINEER:
FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:
AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974
CONTACT: STACY BROWN

PROJECT:
O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS
210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #:LG050055, LG050057, PERMIT #

SEAL:

GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN

TITLE: COVER

SHEET NUMBER: G-1

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001

SURVEY NOTES

1) PROPERTY SHOWN HEREON WAS SURVEYED DECEMBER 14, 2023.

2) THE FIELD DATA UPON WHICH THIS PLAT IS BASED HAS A CLOSURE OF 1' IN 39,642' WITH AN ANGULAR ERROR OF 3.21 SECONDS PER ANGLE POINT AND WAS ADJUSTED USING THE LEAST SQUARES METHOD.

3) A SOKKIA IX TOTAL STATION, CARLSON BRX7 GPS RECEIVER, AND CARLSON SURVEYOR+ DATA COLLECTOR WERE USED FOR FIELD SURVEY MEASUREMENTS.

4) THIS PLAT HAS A COMBINED MAP CLOSURE OF 1' IN 117,351'.

5) SAID DESCRIBED PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION X ON FLOOD INSURANCE RATE MAP NO. 13297C0085E, WITH A DATE OF IDENTIFICATION OF DECEMBER 8, 2016 FOR COMMUNITY NUMBER 130326, IN WALTON COUNTY, STATE OF GEORGIA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

6) CONTROL AND BEARING BASIS FOR THIS SURVEY WERE ESTABLISHED USING A CARLSON BRX7 GPS RECEIVER UTILIZING OPUS-S FOR POST PROCESSING. THE RELATIVE POSITIONAL ACCURACY, AS CALCULATED ACCORDING TO THE FEDERAL GEOGRAPHIC DATA COMMITTEE PART 3: NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, IS .03 FEET HORIZONTAL AND .05 FEET VERTICAL AT THE 95% CONFIDENCE LEVEL.

7) UTILITIES SHOWN PER MARKINGS PLACED BY UTILITY-MARKING, L.L.C.. UTILITIES OTHER THAN THOSE SHOWN HEREON MAY EXIST. PROFESSIONAL LAND SURVEYORS MAKES NO GUARANTEE AS TO THE EXISTENCE OR NON-EXISTENCE OF SAID UTILITIES.

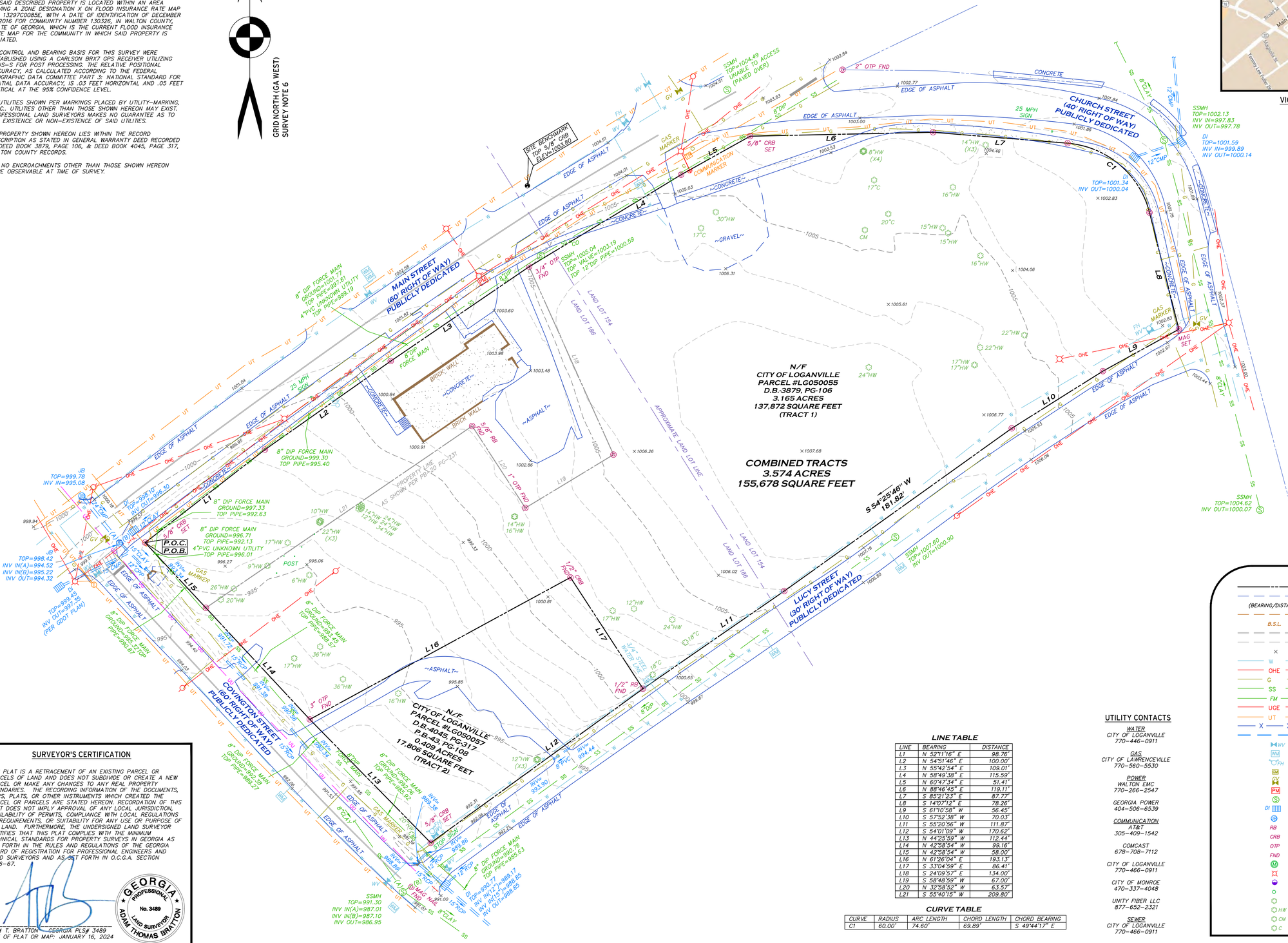
9) PROPERTY SHOWN HEREON LIES WITHIN THE RECORD DESCRIPTION AS STATED IN GENERAL WARRANTY DEED RECORDED IN DEED BOOK 3879, PAGE 106, & DEED BOOK 4045, PAGE 317, WALTON COUNTY RECORDS.

10) NO ENCROACHMENTS OTHER THAN THOSE SHOWN HEREON WERE OBSERVABLE AT TIME OF SURVEY.

GRAPHIC SCALE
30' 0 30' 60'
1 Inch = 30 Feet

GRID NORTH (GA WEST)
SURVEY NOTE 6

VICINITY MAP



LINE TABLE

LINE	BEARING	DISTANCE
L1	N 52°11'16" E	98.76'
L2	N 54°51'46" E	100.00'
L3	N 55°42'54" E	109.01'
L4	N 58°49'38" E	115.59'
L5	N 60°47'14" E	51.41'
L6	N 88°46'45" E	119.11'
L7	S 85°21'23" E	87.77'
L8	S 14°07'12" E	78.26'
L9	S 61°10'59" W	56.45'
L10	S 57°52'38" W	70.03'
L11	S 55°20'56" W	111.87'
L12	S 54°01'09" W	170.62'
L13	N 44°25'59" W	112.44'
L14	N 42°58'54" W	99.16'
L15	N 42°58'54" W	58.00'
L16	N 61°26'04" E	193.13'
L17	S 33°04'59" E	86.41'
L18	S 24°09'57" E	134.00'
L19	S 58°48'59" W	67.00'
L20	N 32°58'52" W	63.57'
L21	S 55°40'15" W	209.80'

CURVE TABLE

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	60.00'	74.60'	69.89'	S 49°44'17" E

SURVEYOR'S CERTIFICATION

THIS PLAT IS A RETRACEMENT OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT SUBDIVIDE OR CREATE A NEW PARCEL OR MAKE ANY CHANGES TO ANY REAL PROPERTY BOUNDARIES. THE RECORDING INFORMATION OF THE DOCUMENTS, MAPS, PLATS, OR OTHER INSTRUMENTS WHICH CREATED THE PARCEL OR PARCELS ARE STATED HEREON. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION. AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. FURTHERMORE, THE UNDERSIGNED LAND SURVEYOR CERTIFIES THAT THIS PLAT COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN THE RULES AND REGULATIONS OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND AS SET FORTH IN O.C.G.A. SECTION 15-6-67.

GEORGIA PROFESSIONAL No. 3489 LAND SURVEYOR ADAM THOMAS BRATTON

ADAM T. BRATTON GEORGIA PLS# 3489
DATE OF PLAT OR MAP: JANUARY 16, 2024

UTILITY CONTACTS

WATER
CITY OF LOGANVILLE
770-446-0911

GAS
CITY OF LAWRENCEVILLE
770-560-5530

POWER
WALTON EMC
770-266-2547

GEORGIA POWER
404-506-6539

COMMUNICATION
AT&T
305-409-1542

COMCAST
678-708-7112

CITY OF LOGANVILLE
770-466-0911

CITY OF MONROE
470-337-4048

UNITY FIBER LLC
877-652-2321

SEWER
CITY OF LOGANVILLE
770-466-0911

LEGEND

- PROPERTY LINE
- OVERHANG/AWNING
- (BEARING/DISTANCE) RECORD CALLS
- B.S.L. BUILDING SETBACK LINE
- INDEX CONTOUR
- MINOR CONTOUR
- SPOT ELEVATION
- W WATER LINE
- OHE OVERHEAD UTILITY LINE
- G GAS LINE
- SS SANITARY SEWER LINE
- FM SANITARY SEWER FORCE MAIN
- UGE UNDERGROUND ELECTRIC LINE
- UT UNDERGROUND TELEPHONE LINE
- X X FENCE LINE
- STORM DRAIN PIPE
- WV WATER VALVE
- WM WATER METER
- FH FIRE HYDRANT
- GM GAS METER
- GV GAS VALVE
- PM POWER METER
- SANITARY SEWER MANHOLE
- DI DROP INLET
- JB JUNCTION BOX
- RB REBAR
- CRB CAPPED REBAR
- OTP OPEN TOP PIPE
- FND FOUND
- MW MONITORING WELL
- LIGHT POLE
- SIGN POST
- SIGN
- TREE
- HW HARDOOD
- CM CREPE MYRTLE
- C CEDAR

PROFESSIONAL
LAND SURVEYORS, LLC
317 GRASSDALE ROAD
CARTERSVILLE, GA 30120
770-334-8186
WWW.PLS.US
INFO@PLS.US
GEORGIA C.O.A.: LSF001380

PREPARED FOR:
O'KELLY MEMORIAL LIBRARY BOARD OF TRUSTEES AND
AZALEA REGIONAL LIBRARY SYSTEM

BOUNDARY & TOPOGRAPHIC SURVEY OF:
PARCEL #'S LG050055 & LG050057
LOGANVILLE, GA 30052
(CITY OF LOGANVILLE)

COUNTY: WALTON
STATE: GEORGIA
DISTRICT: 4
LAND LOTS: 154 & 186

REVISIONS

DATE:	DESCRIPTION
03/05/2024	-ADD SEWER FORCE MAIN

PROFESSIONAL LAND SURVEYORS

DATE: JANUARY 16, 2024
JOB #: 234599
SCALE: 1"=30'
DRAWN BY: H. FISHER

GENERAL NOTES:

1) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEMOLITION PERMIT FROM CITY OF LOGANVILLE, GA PRIOR TO DEMOLITION OF THE SITE.

2) ALL INITIAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY WORK INCLUDING DEMOLITION.

3) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR.

4) REMOVE SHRUBS AND TREES AS NOTED. GRUB OUT ROOTS AND STUMPS AND LEGALLY DISPOSE OF DEBRIS.

5) CONTRACTOR SHALL BE FAMILIAR WITH AND FOLLOW ALL RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT BY NOVA DATED JUNE 21, 2024 DURING DEMOLITION AND SITE CONSTRUCTION.

DEMOLITION NOTES:

1) ALL NEW WORK SHOWN IN THESE SHEETS SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL BUILDING AND UTILITY INSTALLATION CODES.

2) ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH GDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES EXCEPT IN CASES WHERE THE CITY OF LOGANVILLE, GA JURISDICTION, THE CITY STANDARD SPECIFICATIONS ARE MORE STRINGENT.

3) THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND TO NOTIFY THE OWNER IN CASE OF DISCREPANCIES THAT AFFECT THE CONSTRUCTION PROJECT.

4) THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH UTILITY COMPANIES IN THE PROCESS OF LOCATION AND RELOCATION OF AND TIE-IN TO PUBLIC UTILITIES.

5) CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO ANY ADJACENT STRUCTURES OR PROPERTY, OR ANY EXISTING STRUCTURES WITHIN LIMITS OF CONSTRUCTION THAT ARE DESIGNATED ON THE PLANS TO REMAIN, AND SHALL REPAIR OR REPLACE SUCH DAMAGED PROPERTY TO THE PROPERTY OWNER'S SATISFACTION AT NO COST TO THE OWNER.

6) THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER.

7) CONTRACTOR IS RESPONSIBLE FOR CONTACTING CITY OF LOGANVILLE, GA AND ALL EXISTING UTILITY PROVIDERS BEFORE REMOVING ANYALL UTILITIES FROM THEIR EXISTING LOCATION ON THE SITE. THE CONTRACTOR SHALL PERFORM ALL UTILITY DEMOLITION OR RELOCATION ACTIVITIES IN ACCORDANCE WITH THE EXISTING UTILITIES SPECIFICATIONS, MATERIALS, AND REQUIREMENTS.

8) THE CONTRACTOR SHALL SEQUENCE THE WORK AND PROVIDE TEMPORARY MEASURES AS NECESSARY TO MAINTAIN ACCESS TO THE SITE THROUGH ALL ENTRANCES AT ALL TIMES DURING CONSTRUCTION. TEMPORARY PROVISIONS MAY INCLUDE, BUT ARE NOT LIMITED TO: BARRICADES, FLASHING LIGHTS, FLAGMAN, TEMPORARY PAVEMENT, AND DIRECTIONAL SIGNAGE AS NECESSARY TO ACCOMPLISH THE WORK.

9) CONTRACTOR SHALL CONSIDER COORDINATION ASPECTS OF CRANES AND CONSTRUCTION EQUIPMENT OPERATIONS DURING DEMOLITION ACTIVITY.

10) CONTRACTOR EQUIPMENT SHALL NOT BE PARKED IN COUNTY, CITY OR STATE RIGHT-OF-WAY, AND MUST BE STORED WITHIN THE SITE.

11) COORDINATE WITH CITY OF LOGANVILLE, GA AS REQUIRED DURING ALL DEMOLITION AND NEW CONSTRUCTION ACTIVITIES.

12) APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CITY OF LOGANVILLE, GA OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.

13) ALL BUFFERS AND SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

14) THE CONTRACTOR SHALL DISPOSE OF ANY HAZARDOUS MATERIALS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.

15) ALL ITEMS DESIGNATED FOR REMOVAL SHALL BE LEGALLY DISPOSED OF, OFF SITE.

16) CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION.

17) CONTRACTOR TO POT HOLE EXISTING WATER LINE, UNDERGROUND ELECTRICAL LINES, GAS LINE, UNDERGROUND TELEPHONE, FIBER OPTIC, AND ANY OTHER UTILITY LINES WITHIN THE RIGHT OF WAY DURING DEMOLITION ACTIVITIES AND COORDINATE FIELD LOCATIONS AND DEPTHS OF THESE UTILITIES WITH ENGINEER FOR PROPOSED UTILITY CROSSINGS AND PROPOSED PAVEMENT OVER EXISTING LINES.

EROSION CONTROL NOTES

(SEE ALSO EROSION CONTROL PLAN)

1) EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO ANY CLEARING OR EARTHWORK OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ALL DISTURBED AREAS.

2) THE CONTRACTOR SHALL PROVIDE DUST CONTROL AND SHALL PROTECT ADJACENT PAVEMENTS FROM SOIL ACCUMULATION DURING CONSTRUCTION.

3) ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY THE ENGINEER OR OTHER INSPECTORS AS DETERMINED BY FIELD CONDITIONS.

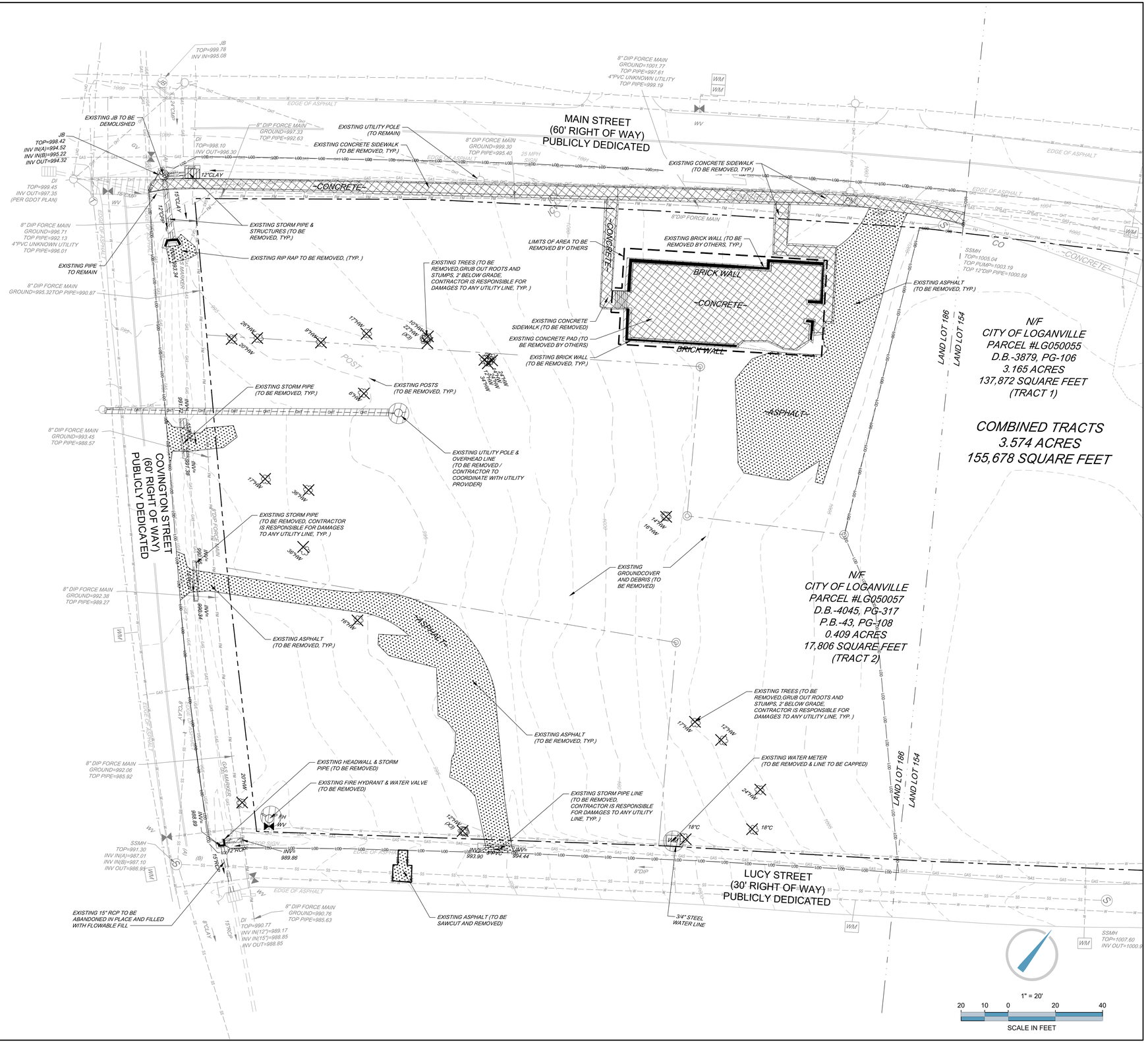
LEGEND

	UTILITIES, FENCE, AND/OR WALL TO BE REMOVED. SEE NOTE FOR DETAIL.
	BUILDING/CONCRETE TO BE REMOVED
	ASPHALT, GRAVEL, AND/OR CURB & GUTTER TO BE REMOVED
	TREES AND BRUSH TO BE REMOVED
	EXISTING FENCE
	PROPERTY LINE
LOD LOD LOD	LIMITS OF DISTURBANCE
	TREE PROTECTION FENCE
	EXISTING TREE TO BE REMOVED

EXISTING SITE DATA

TOTAL SITE AREA =	1.85 AC.
EXISTING PERVIOUS AREA =	1.63 AC.
EXISTING IMPERVIOUS AREA =	0.22 AC.

GEORGIA811 Utilities Protection Center, Inc.
Know what's **below.** **Call** before you dig.



ENGINEER:

FORESITE group

Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:

AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974

CONTACT: STACY BROWN

PROJECT:

O'KELLY MEMORIAL LIBRARY

CONSTRUCTION DOCUMENTS

210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057, PERMIT #

SEAL:

GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	1" = 20'
TITLE:	

DEMOLITION PLAN

SHEET NUMBER:

C-0

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001

GENERAL NOTES:

1) ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED PARKING LOT ARE SHOWN AT THE FACE OF CURB. ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED BUILDING LOCATION ARE GIVEN AT THE OUTSIDE FACE OF THE BUILDING CORNERS. ALL CURB RADII ARE GIVEN AT THE FACE OF CURB.

2) CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS IN THE FIELD AND THE SURVEY SHOWN ON THE PLANS BEFORE PROCEEDING WITH ANY NEW CONSTRUCTION.

3) CONTRACTOR IS RESPONSIBLE FOR CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURB AND GUTTER, SIDEWALKS, WALLS, AND UTILITIES.

SITE NOTES:

1) TRACT IS ZONED: CBD (COMMERCIAL BUSINESS DISTRICT), MSO (MAIN STREET OVERLAY DISTRICT),

2) SEE ARCHITECTURAL PLANS FOR BUILDING FLOOR PLAN DIMENSIONS, DOOR LOCATIONS, SITE LIGHTING PLAN, AND OTHER ARCHITECTURAL DETAILS.

3) NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED ON THE SITE.

4) HIGH INTENSITY LIGHTING FACILITIES SHALL BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM THE PUBLIC VIEW AND DOES NOT INTERFERE WITH TRAFFIC. (SEE PHOTOMETRICS PLAN IN ARCH. PLANS).

5) ALL BUFFERS, TREE SAVE AREAS, AND UNDISTURBED AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

6) CONTRACTOR EQUIPMENT SHALL NOT BE PARKED IN COUNTY, CITY OR STATE RIGHT-OF-WAY, AND MUST BE STORED WITHIN THE SITE.

7) ALL PAVEMENT MARKING WITHIN CITY OF LOGANVILLE, GA RIGHT-OF-WAY SHALL BE THERMOPLASTIC AND ACCORDING TO GDOT SPECIFICATIONS.

8) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE OWNER, HOWEVER A CONTRACTOR/DEVELOPER CAN DO PERMITTING WITH AGENT AUTHORIZATION.

9) ALL EROSION, SEDIMENT CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY GRADING.

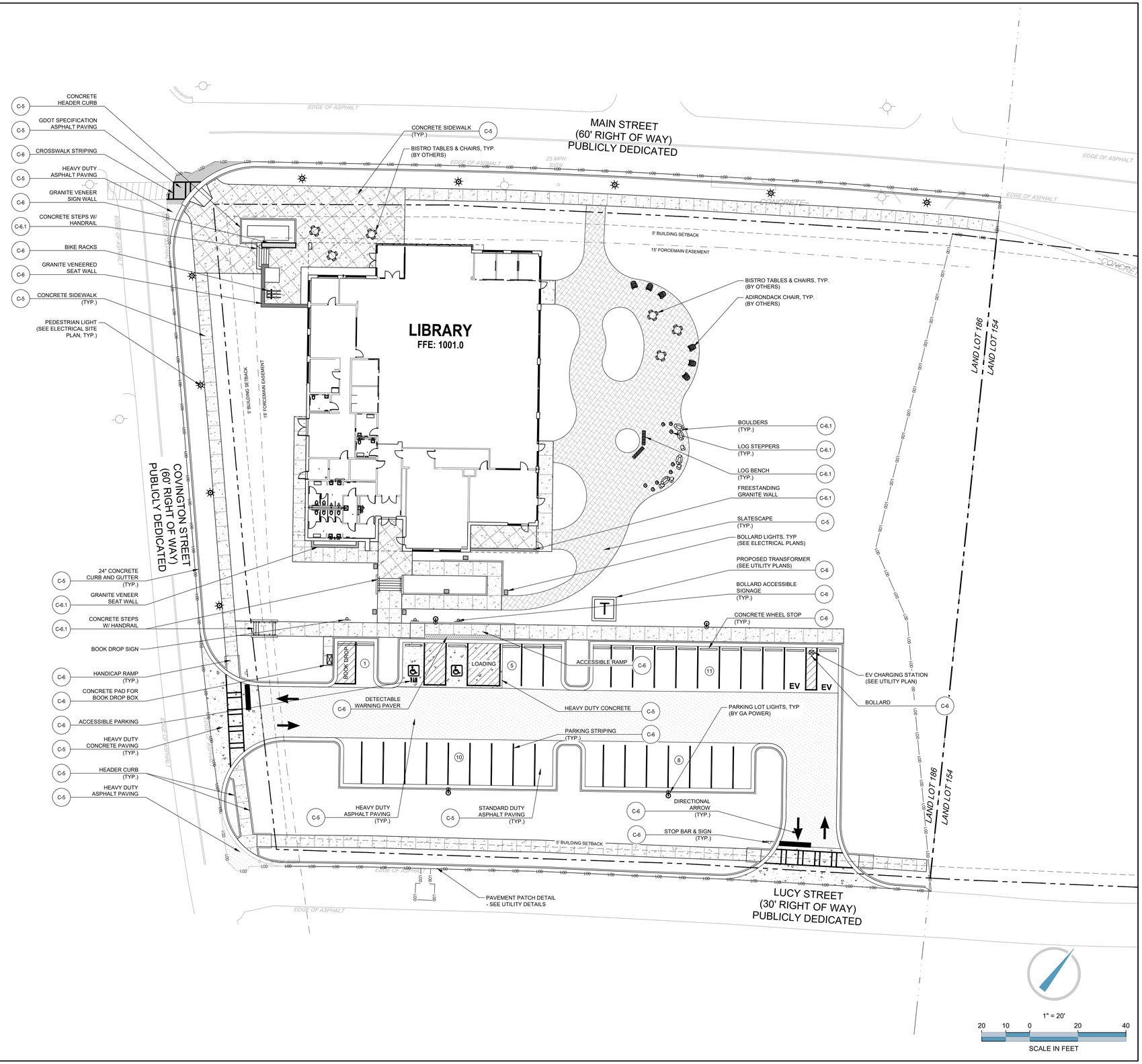
10) MAXIMUM CUT OR FILL SLOPE=2H:IV

11) 24 HOUR CONTACT: STACY BROWN, 706-342-4974

12) CONTRACTOR SHALL COORDINATE WITH THE CITY/COUNTY JURISDICTION, WATER AND SEWER JURISDICTION, AND DEPARTMENT OF TRANSPORTATION INSPECTORS REGARDING ALL CERTIFICATE OF OCCUPANCY REQUIREMENTS AND COORDINATE WITH THE ENGINEER APPROXIMATELY 8 WEEKS PRIOR TO ANTICIPATED CERTIFICATE OF OCCUPANCY DATE REGARDING ANY ITEMS REQUIRING APPROVAL OR CERTIFICATIONS BY THE ENGINEER.

LEGEND

- SLATESCAPE
- STANDARD DUTY ASPHALT PAVING
- HEAVY DUTY ASPHALT PAVING
- DOT SPECIFICATION ASPHALT PAVING
- CONCRETE SIDEWALK PAVING
- HEAVY DUTY CONCRETE PAVING
- PROPERTY LINE
- (#) PARKING COUNT
- TRAFFIC SIGN
- THERMOPLASTIC PAINTED TRAFFIC ARROWS



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PROJECT:
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LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057

SEAL:
GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	1" = 20'
TITLE:	

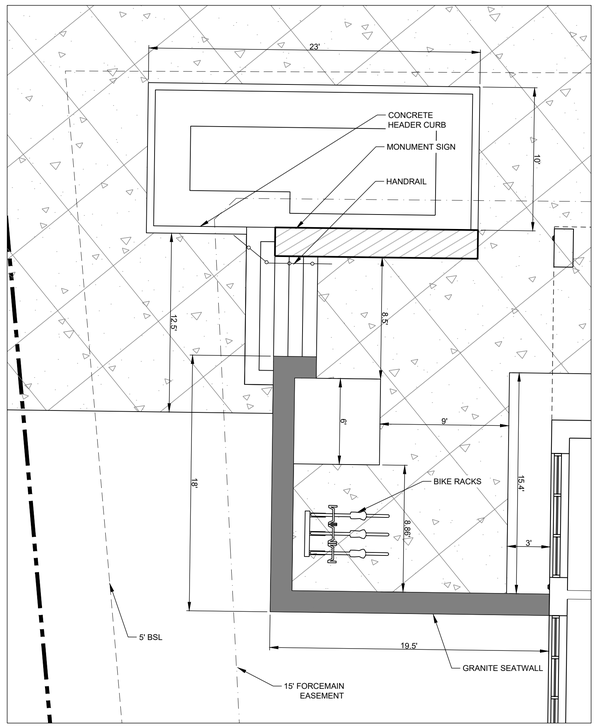
SITE & PAVING PLAN

SHEET NUMBER:
C-1

COMMENTS: NOT RELEASED FOR CONSTRUCTION

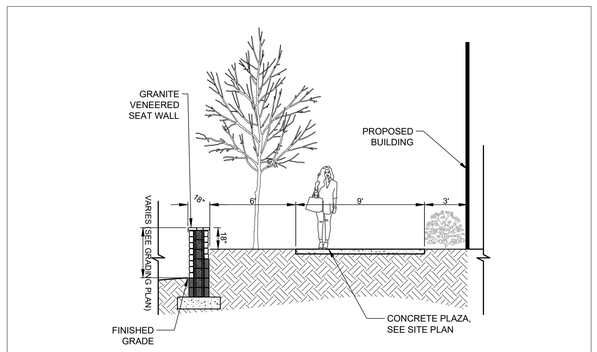
JOB/FILE NUMBER: 2184.001

P:\2184.001 MPS - O'KELLY MEMORIAL LIBRARY (LOGANVILLE, GA)\DWG\C-1 SITE & PAVING PLAN.DWG Printed on: 7/31/2024 5:49:12 PM By:GINA.ZHENG Sheet Scale:1" = 1'



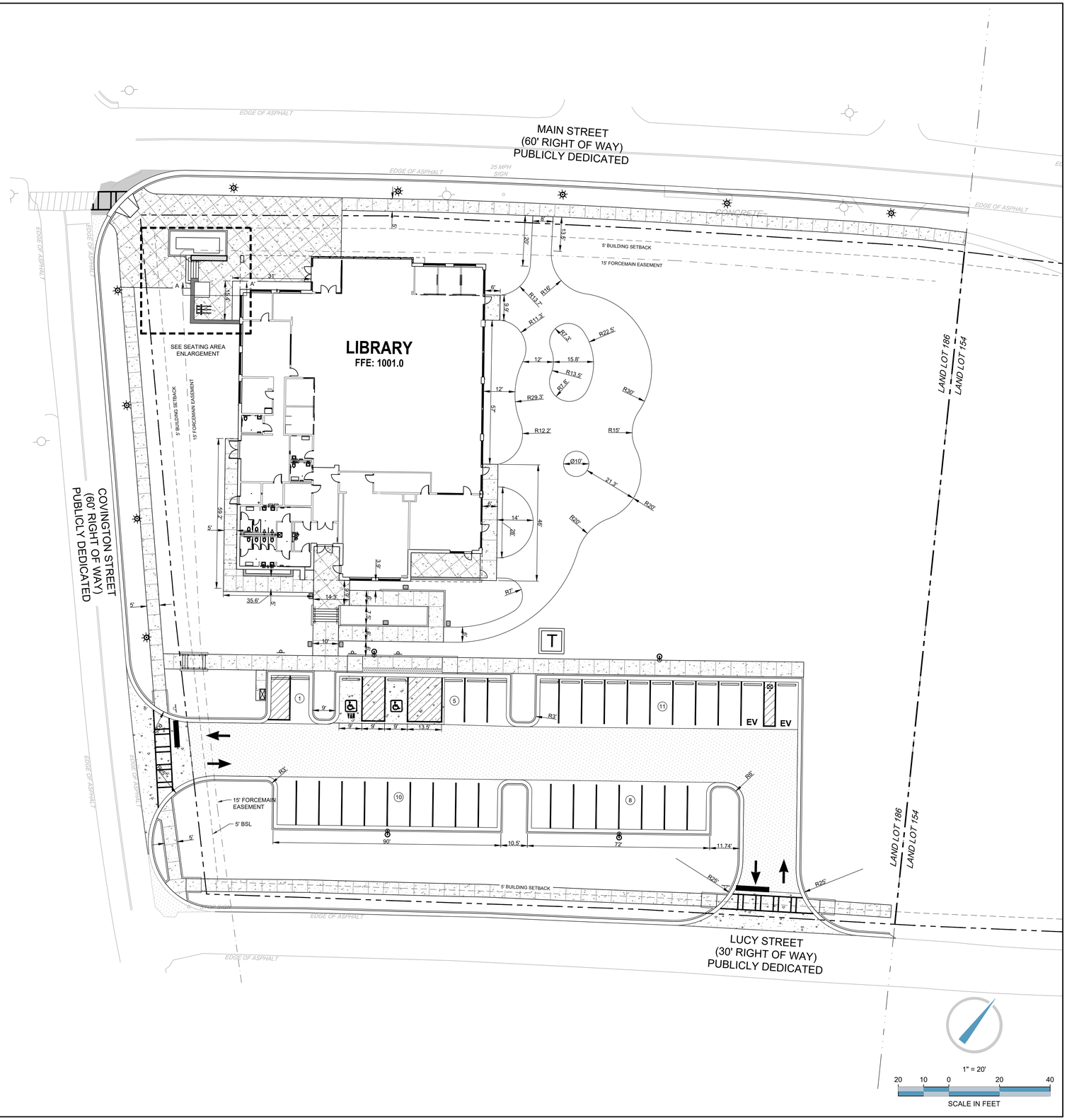
1 SEATING AREA ENLARGEMENT
1"=5'

1" = 5'
5 2.5 0 5 10
SCALE IN FEET



2 PLAZA SECTION A - A'
1"=5'

1" = 5'
5 2.5 0 5 10
SCALE IN FEET



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LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057

SEAL:
GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000071160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
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B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	1" = 20'
TITLE:	

STAKING PLAN

SHEET NUMBER:
C-1.1

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
2184.001

P:\2184.001 MPS - O'KELLY MEMORIAL LIBRARY - LOGANVILLE, GA\WORKING\1 SITE & PAVING PLANS\ Plotted on: 7/31/2024 5:48:14 PM By: CHIA ZHENG Sheet Scale: 1" = 1'

GENERAL NOTES:

1) ALL SPOT ELEVATIONS SHOWN ARE AT THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

2) ALL PROPOSED SIDEWALKS SHALL BE BUILT WITH A 1.5% CROSS-SLOPE AWAY FROM THE BUILDING.

3) ALL HEAD WALL SECTIONS SHALL BE CONSTRUCTED TO BE FLUSH WITH THE EXISTING DITCH BANK AND PROPOSED EMBANKMENT SLOPES.

4) THE SOURCE OF THE TOPOGRAPHIC AND ELEVATION DATA IS FROM THE TOPOGRAPHIC SURVEY PROVIDED BY PROFESSIONAL LAND SURVEYORS, LLC. DATED 3/5/2024.

SITE NOTES:

1) THE CONTRACTOR SHALL CLEAN OUT ACCUMULATED SILT IN STORM WATER CONVEYANCE CHANNELS AND PIPES AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.

2) COORDINATE WITH CITY OF LOGANVILLE, GA INSPECTIONS DURING CONSTRUCTION.

3) NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED.

4) CONSTRUCT EROSION CONTROL BARRIERS PER CITY OF LOGANVILLE, GA INSPECTOR AND MAINTAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.

5) THE CONTRACTOR SHALL RE-ESTABLISH ALL RIGHT OF WAY AREA WHICH IS DAMAGED OR DISTURBED TO ORIGINAL CONDITIONS OR BETTER DURING AUTHORIZED WORK. ALL WORK IN CITY OF LOGANVILLE, GA RIGHT OF WAY SHALL COMPLY WITH GDOT SPECIFICATIONS.

6) ALL CURBED LANDSCAPE ISLANDS SHALL BE FILLED TO TOP OF CURB WITH TOPSOIL AND SEEDED.

7) MAXIMUM CUT OR FILL SLOPES IS 2H:1V

8) TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING ACTIVITIES.

9) ALL PLASTIC STORM PIPE SHOWN ON THIS PLAN SHALL BE WRAPPED WITH LOCATION WIRE AND TAPE.

10) ALL CMP STORM PIPE SHALL BE TYPE 2 ALUMINIZED. ALL HDPE SHALL BE AASHTO TYPE "S" AND SHALL BE INSTALLED IN ACCORDANCE TO ASTM D2321 OR AASHTO SECTION 30 STANDARD PRACTICES AND AS RECOMMENDED BY THE MANUFACTURER. ALL RCP STORM PIPE SHALL BE CLASS III.

11) IN ALL AREAS OF FILL OR OTHERWISE DISTURBANCE OF EXISTING CONDITIONS, UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL FULLY AND COMPLETELY REMOVE AND LEGALLY DISPOSE OFF-SITE, ALL PLANT MATERIALS INCLUDING BUT NOT LIMITED TO ROOT SYSTEMS, CONCRETE, REINFORCED CONCRETE, ASPHALT DEBRIS, UNDERBRUSH, TOPSOIL, AND OTHER DELETERIOUS MATERIAL. THE SUBGRADE TO REMAIN SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY FOLLOWING FULL REMOVAL OF THESE MATERIALS.

12) REFER TO SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION REPORTS AS PROVIDED BY OWNER FOR RECOMMENDATIONS ASSOCIATED WITH: GENERAL SITE PREPARATION, BUILDING PAD PREPARATION, SUBGRADE PREP, AREAS TO RECEIVE FILL, AREAS TO BE OVEREXCAVATED, PAVEMENT SECTIONS, FILL, SLOPES AND EXCAVATION. THE CONTRACTOR SHALL HAVE THIS REPORT ON THE JOB SITE FOR REFERENCE AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE EARTHWORK OPERATIONS AND CONSTRUCTION PHASE MONITORING TO ENSURE THAT ALL COMPACTION IS COMPLETED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL PROVIDE TESTING REPORTS TO THE OWNER REGARDING COMPACTION TESTING PER THE TESTING PROTOCOL IN THE GEOTECHNICAL REPORT.

13) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES. **24 HR. CONTACT: STACY BROWN 706-342-4974**

14) NO PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER PANEL 13297C0085E DATED 2016-12-08

15) DETENTION FACILITIES AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

16) EXTREME CAUTION SHALL BE USED WHEN WORKING WITHIN THE VICINITY OF THE EXISTING OVERHEAD POWER LINES. CONTRACTORS SHALL NOTIFY/COORDINATE WITH GEORGIA POWER PRIOR TO CONSTRUCTION.

17) STORM WATER MANAGEMENT SHALL BE IN ACCORDANCE WITH COUNTY, STATE, AND OTHER APPROPRIATE ORDINANCES AND REGULATIONS IN EFFECT AT TIME OF CONSTRUCTION PLAN APPROVAL.

18) IN HEAVY DUTY PAVEMENT AREAS G.A.B. SHALL EXTEND UNDER THE GUTTER TO PROVIDE ADDITIONAL STABILITY FOR TRUCK TRAVEL.

19) CONTRACTOR SHALL INSTALL DOWNSTREAM STORM PIPE CONNECTION IN THE RIGHT-OF-WAY PRIOR TO INSTALLATION OF ON-SITE STORM PIPING AND/OR STORM WATER DETENTION FACILITY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE PLANS BY POT HOLING THE LINES. THE CONTRACTOR SHALL HAVE THE LINES SURVEYED, INCLUDING HORIZONTAL AND VERTICAL LOCATION, AND THE SURVEYED POINTS SENT TO THE PROJECT ENGINEER TO DETERMINE IF ANY UTILITY CONFLICTS WILL AFFECT THE CURRENT STORM DRAINAGE DESIGN.

LEGEND

XXXX	EXISTING CONTOURS
XXXX	PROPOSED CONTOURS
	EXISTING STORM PIPE
	PROPOSED STORM PIPE
XXXX.XX	EXISTING SPOT ELEVATION
XXXX.XX	PROPOSED SPOT ELEVATION
XXXX.XX TW XXXX.XX BW	PROPOSED SPOT ELEVATION FOR TOP OF WALL / BOTTOM OF WALL AT FINISHED SURFACE GRADE (SEE STRUCTURAL FOR FOOTING ELEVATIONS)

STORMWATER STRUCTURES LEGEND

TYPE	DESCRIPTION	STANDARD/ DETAIL	RIM EL. REFERENCE
DB GRATE	DRAIN BASIN WITH CAST IRO N PEDESTRIAN GRATE	DRAIN BASIN GRATE W/FLAT GRATE LOCKING ASSEMBLY	TOP OF STRUCTURE
DB DOME	DRAIN BASIN WITH CAST IRON DOME GRATE	DRAIN BASIN DOME W/DOMED GRATE LOCKING ASSEMBLY	BOTTOM OF DOME COVER
ID GRATE	INLINE DRAIN WITH CAST IRON PEDESTRIAN GRATE	INLINE DRAIN GRATE W/FLAT GRATE LOCKING ASSEMBLY	TOP OF STRUCTURE
ID DOME	INLINE DRAIN WITH CAST IRON DOME GRATE	INLINE DRAIN DOME W/DOMED GRATE LOCKING ASSEMBLY	BOTTOM OF DOME COVER
TD	TRENCH DRAIN	DURATRENCH 6" PRECAST TRENCH DRAIN W/DUCTILE IRON GRATE	TOP OF GRATE
JB	JUNCTION BOX/PRECAST MANHOLE	GDOT STD 1011AP	TOP ACCESS COVER
HW	WINGED HEADWALL	GDOT STD 1001-B	N/A
PI	PEDESTAL INLET (WEIR)	SEE DETAIL SHEET C-2.9	THROAT OF STRUCTURE
DI	DROP INLET (GRATE)	GDOT STD 1019A TYPE "A"	GRATE AT FINISHED GRADE
OCS	OUTLET CONTROL STRUCTURE	SEE DETAIL SHEET C-2.4	SEE DETAIL SHT. C-2.4

PIPE MATERIALS LEGEND*

TYPE	DESCRIPTION	STANDARD
RCP	REINFORCED CONCRETE PIPE	GDOT STD 1030D
HDPE	HIGH DENSITY POLYTEHYLENE PIPE	GDOT STD 1030P

*GAUGING BASED ON GDOT STD. 1030 (SEE DETAILS)
ALTERNATIVE MATERIALS ALLOWED BASED ON ALTERNATIVE MATERIALS IN GENERAL NOTES..
** RIM ELEVATIONS ARE APPROXIMATE AND USUALLY LOCATED NEAR THE CENTER OF THE STRUCTURE (I.E. IF CENTER OF STRUCTURE IS ON A GRATE IT WILL BE APPROX. GRATE ELEVATION, AND IF ON TOP OF A WINGED CATCH BASIN, WILL BE THE TOP OF THE CATCH BASIN). ALL GRATES/THROATS ARE TO BE CONSTRUCTED TO BE FLUSH WITH AND MATCH FINAL GRADES AND HORIZONTAL ALIGNMENTS OF ALL CURBS AND PAVEMENTS IN ACCORDANCE WITH DRAINAGE DETAILS.

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CONTACT: STACY BROWN

PROJECT:

O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS

210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #:LG050055; LG050057

SEAL:

GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JAC
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	1" = 20'
TITLE:	

GRADING & DRAINAGE PLAN

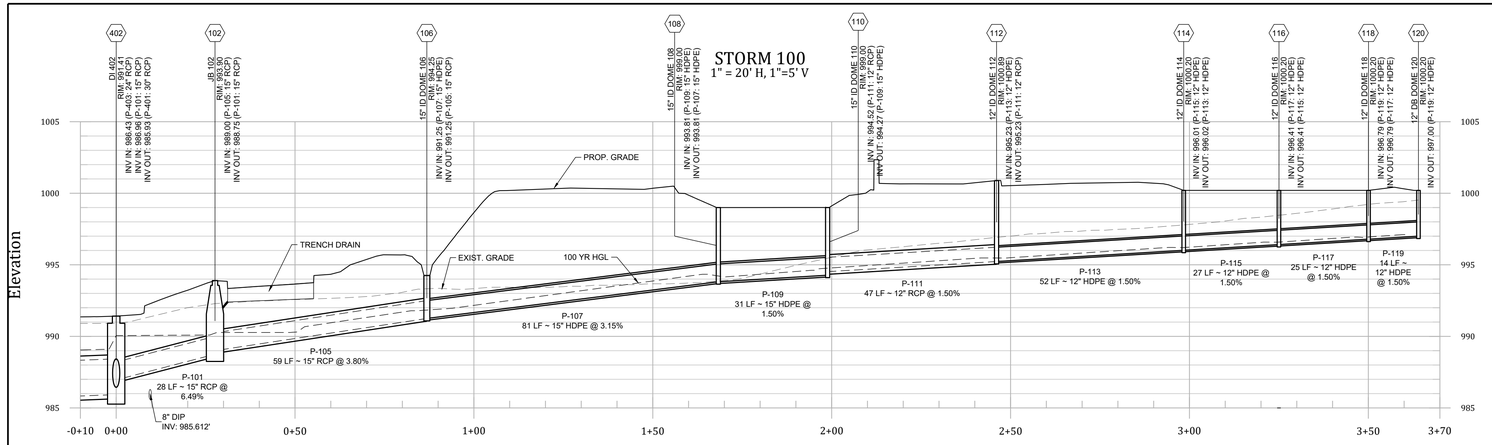
SHEET NUMBER:

C-2

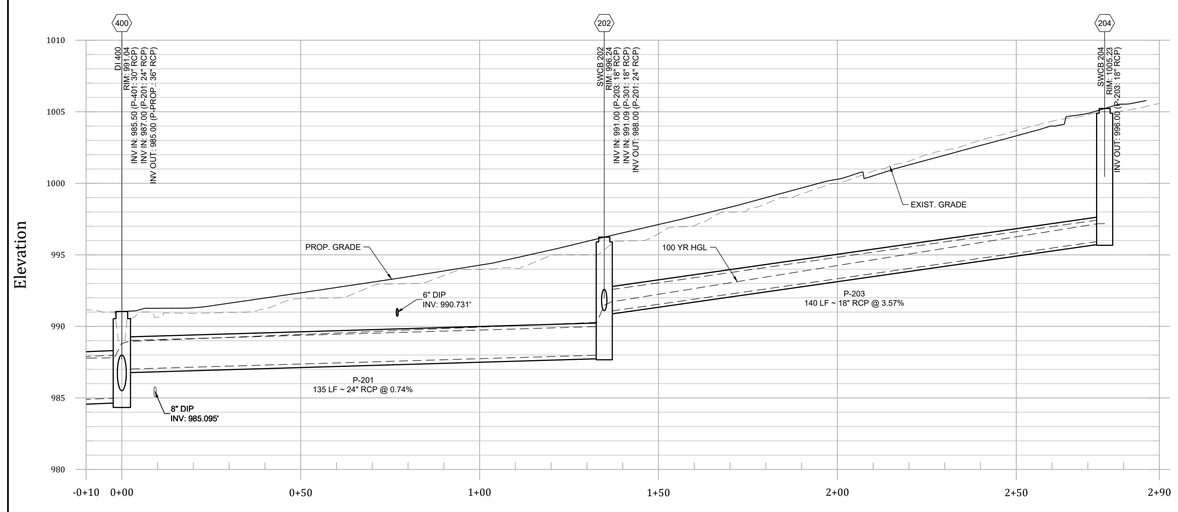
COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001

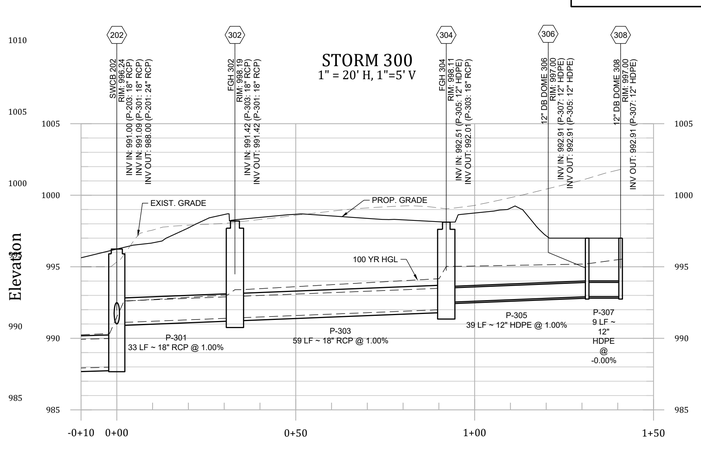
STORM 100
1" = 20' H, 1"=5' V



STORM 200
1" = 20' H, 1"=5' V



STORM 300
1" = 20' H, 1"=5' V



STORMWATER STRUCTURES LEGEND

TYPE	DESCRIPTION	STANDARD/ DETAIL	RIM EL. REFERENCE
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DB DOME	DRAIN BASIN WITH CAST IRON DOME GRATE	DRAIN BASIN DOME W/DOMED GRATE LOCKING ASSEMBLY	BOTTOM OF DOME COVER
ID GRATE	INLINE DRAIN WITH CAST IRON PEDESTRIAN GRATE	INLINE DRAIN GRATE W/FLAT GRATE LOCKING ASSEMBLY	TOP OF STRUCTURE
ID DOME	INLINE DRAIN WITH CAST IRON DOME GRATE	INLINE DRAIN DOME W/DOMED GRATE LOCKING ASSEMBLY	BOTTOM OF DOME COVER
TD	TRENCH DRAIN	DURATRENCH 6" PRECAST TRENCH DRAIN W/DUCTILE IRON GRATE	TOP OF GRATE
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PIPE MATERIALS LEGEND*

TYPE	DESCRIPTION	STANDARD
RCP	REINFORCED CONCRETE PIPE	GDOT STD 1030D
HDPE	HIGH DENSITY POLYTEHYLENE PIPE	GDOT STD 1030P

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GENERAL NOTES:

1) PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

2) EXISTING UTILITY DEPTHS ARE APPROXIMATED BASED ON 4 FT COVER FROM THE EXISTING GROUND SURFACE. PROPOSED UTILITY DEPTHS ARE BASED ON 4 FT OF COVER FROM THE PROPOSED GROUND SURFACE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY DEPTHS AT CROSSING AND CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE ENCOUNTERED.

3) CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS OF UTILITIES IN RIGHT OF WAY TO AVOID CONFLICTS. CONTACT ENGINEER IMMEDIATELY IF FIELD ELEVATIONS DIFFER FROM THE DESIGN DRAWINGS.

4) MAINTAIN MINIMUM 2' OF COVER OVER METAL AND PLASTIC PIPES DURING CONSTRUCTION ACTIVITIES.

1" = 5'
5 2.5 0 5 10
VERTICAL: SCALE IN FEET

1" = 20'
20 10 0 20 40
HORIZONTAL: SCALE IN FEET

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PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

STORM DRAINAGE PROFILES

SHEET NUMBER:
C-2.2

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
2184.001

100-YR PIPE CHART

LineNo.	InletID	LineID	Grnd/RimElev Up	Grnd/RimElev Dn	InvertUp	InvertDn	LineSlope	LineSize	DrainageArea	RunoffCoeff	Tc	n-valuePipe	VelAve	FlowRate	HGLUp	HGLDn
			(ft)	(ft)	(ft)	(ft)	(%)	(in)	(ac)	(C)	(min)		(ft/s)	(cfs)	(ft)	(ft)
1	400	PROP	991.04	-	985.00	984.79	0.98	36	0.21	0.65	16	0.013	6.46	45.28	987.86	987.79
2	402	401	991.43	991.33	985.96	985.50	1.01	30	0.07	0.65	15.9	0.013	6.22	30.54	989.1	988.85
3	102	101	993.36	991.43	988.75	986.96	6.36	18	0.13	0.95	15.7	0.013	2.7	4.65	990.1	990.06
4	104	103	993.84	993.36	989.09	988.75	1.51	18	0.13	0.95	15.5	0.013	2	3.25	990.28	990.27
5	106	105	994.25	993.84	991.25	990.34	2.8	15	0.03	0.4	15.3	0.013	5.3	1.85	991.79	990.68
6	108	107	999.00	994.25	993.81	991.25	3.14	15	0.15	0.95	14.7	0.013	3.58	1.81	994.34 j	991.79
7	110	109	999.00	999.00	994.27	993.81	1.51	15	0.07	0.86	14.2	0.013	2.23	0.8	994.62 j	994.34
8	112	111	1000.89	999.00	995.23	994.52	1.5	12	0.03	0.75	13	0.013	2.92	0.38	995.49	994.72
9	114	113	1000.20	1000.89	996.02	995.23	1.51	12	0.02	0.35	10.8	0.013	1.79	0.23	996.22 j	995.49
10	116	115	1000.20	1000.20	996.41	996.01	1.5	12	0.02	0.35	9.4	0.013	1.78	0.19	996.59 j	996.22
11	118	117	1000.20	1000.20	996.79	996.41	1.52	12	0.02	0.35	7.3	0.013	1.66	0.14	996.94 j	996.59
12	120	119	1000.20	1000.20	997.00	996.79	1.51	12	0.02	0.35	5	0.013	1.33	0.08	997.12 j	996.94
13	404	403	993.81	991.43	987.28	986.46	1.5	24	0.1	0.65	5.9	0.013	9.86	30.96	991.09	990.06
14	406	405	995.64	993.81	989.19	987.28	2	24	0.16	0.75	5.7	0.013	9.68	30.42	993.57	991.84
15	408	407	998.13	995.64	993.20	989.19	5	24	-	-	-	0.013	9.31	29.24	995.64	994.3
16	410	409	998.35	998.13	993.42	993.34	0.95	24	-	-	-	0.013	9.09	28.56	995.98	995.84
17	412	411	999.63	998.35	994.29	993.94	1.02	18	0.19	0.95	5.4	0.013	7.43	13.13	997.8	997.26
18	414	413	1001.62	999.63	996.00	994.28	1	18	1.06	0.95	5	0.013	6.5	11.48	1000.28	998.23
19	202	201	996.24	991.33	988.00	987.00	0.74	24	0.08	0.65	5.4	0.013	7.16	22.48	990.33	989
20	204	203	1005.23	996.24	996.00	991.00	3.57	18	0.94	0.95	5	0.013	8.94	10.18	997.23	991.76
21	302	301	998.19	996.24	991.42	991.09	1	18	0.03	0.95	5.2	0.013	6.87	12.15	993.03	992.59
22	304	303	998.11	998.19	992.01	991.42	1	18	0.41	0.95	5.1	0.013	6.76	11.95	994.16	993.4
23	306	305	997.00	998.11	993.00	992.51	1.01	12	0.7	0.95	5	0.013	9.65	7.58	996.91	995.02

Notes: j-Line contains hyd. jump

10-YEAR GUTTER SPREAD

LineNo.	LineID	LineID	QCaptured	QBypass	GutterDepth	GutterSpread
			(cfs)	(cfs)	(ft)	(ft)
1	PROP	400	2	0	0.19	21.03
2	401	402	0.18	0.18	0.06	8.1
3	101	102	1.12	0.29	0.14	4.01
4	103	104	1.12	0.29	0.14	4.01
5	105	106	0.09	0	0.02	4.49
6	107	108	1.11	0	0.13	14.97
7	109	110	0.47	0	0.07	9.3
8	111	112	0.18	0	0.04	6.08
9	113	114	0.05	0	0.02	3.87
10	115	116	0.05	0	0.02	3.87
11	117	118	0.05	0	0.02	3.87
12	119	120	0.05	0	0.02	3.87
13	403	404	1.61	0	0.18	5.91
14	405	406	0.53	1.1	0.06	1.24
15	407	408	....	....	....	....
16	409	410	....	....	....	....
17	411	412	1.41	0	0.2	6.95
18	413	414	1.63	0	0.15	7.33
19	201	202	2.58	0.75	0.2	6.83
20	203	204	4.03	2.93	0.25	9.71
21	301	302	0.22	0	0.02	1.12
22	303	304	3.04	0	0.29	11.52
23	305	306	2.6	0	0.69	12
24	307	308	2.6	0	0.69	12

STORMWATER STRUCTURES LEGEND

TYPE	DESCRIPTION	STANDARD/ DETAIL	RIM EL. REFERENCE
DB GRATE	DRAIN BASIN WITH CAST IRO N PEDESTRIAN GRATE	DRAIN BASIN GRATE W/FLAT GRATE LOCKING ASSEMBLY	TOP OF STRUCTURE
DB DOME	DRAIN BASIN WITH CAST IRON DOME GRATE	DRAIN BASIN DOME W/DOMED GRATE LOCKING ASSEMBLY	BOTTOM OF DOME COVER
ID GRATE	INLINE DRAIN WITH CAST IRON PEDESTRIAN GRATE	INLINE DRAIN GRATE W/FLAT GRATE LOCKING ASSEMBLY	TOP OF STRUCTURE
ID DOME	INLINE DRAIN WITH CAST IRON DOME GRATE	INLINE DRAIN DOME W/DOMED GRATE LOCKING ASSEMBLY	BOTTOM OF DOME COVER
TD	TRENCH DRAIN	DURATRENCH 6" PRECAST TRENCH DRAIN W/DUCTILE IRON GRATE	TOP OF GRATE
JB	JUNCTION BOX/PRECAST MANHOLE	GDOT STD 1011AP	TOP ACCESS COVER
HW	WINGED HEADWALL	GDOT STD 1001-B	N/A
PI	PEDESTAL INLET (WEIR)	SEE DETAIL SHEET C-2.9	THROAT OF STRUCTURE
DI	DROP INLET (GRATE)	GDOT STD 1019A TYPE "A"	GRATE AT FINISHED GRADE
OCS	OUTLET CONTROL STRUCTURE	SEE DETAIL SHEET C-2.4	SEE DETAIL SHT. C-2.4

PIPE MATERIALS LEGEND*

TYPE	DESCRIPTION	STANDARD
RCP	REINFORCED CONCRETE PIPE	GDOT STD 1030D
HDPE	HIGH DENSITY POLYTEHYLENE PIPE	GDOT STD 1030P

*GAUGING BASED ON GDOT STD. 1030 (SEE DETAILS)
ALTERNATIVE MATERIALS ALLOWED BASED ON ALTERNATIVE MATERIALS IN GENERAL NOTES..
** RIM ELEVATIONS ARE APPROXIMATE AND USUALLY LOCATED NEAR THE CENTER OF THE STRUCTURE (I.E. IF CENTER OF STRUCTURE IS ON A GRATE IT WILL BE APPROX. GRATE ELEVATION, AND IF ON TOP OF A WINGED CATCH BASIN, WILL BE THE TOP OF THE CATCH BASIN). ALL GRATES/THROATS ARE TO BE CONSTRUCTED TO BE FLUSH WITH AND MATCH FINAL GRADES AND HORIZONTAL ALIGNMENTS OF ALL CURBS AND PAVEMENTS IN ACCORDANCE WITH DRAINAGE DETAILS.

GENERAL NOTES:

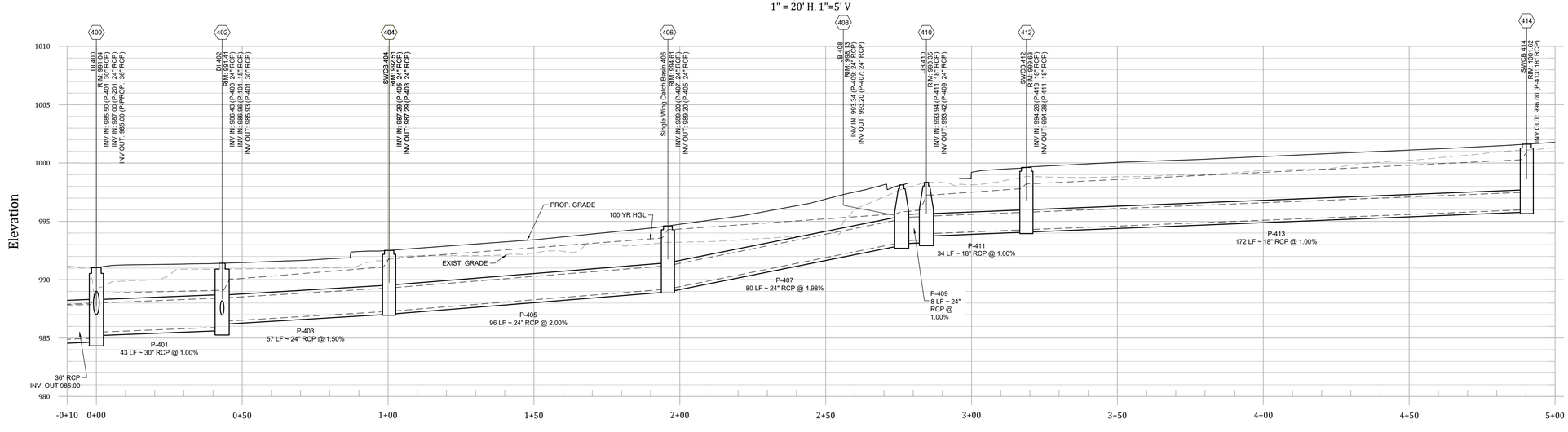
1) PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

2) EXISTING UTILITY DEPTHS ARE APPROXIMATED BASED ON 4 FT COVER FROM THE EXISTING GROUND SURFACE. PROPOSED UTILITY DEPTHS ARE BASED ON 4 FT OF COVER FROM THE PROPOSED GROUND SURFACE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY DEPTHS AT CROSSING AND CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE ENCOUNTERED.

3) CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS OF UTILITIES IN RIGHT OF WAY TO AVOID CONFLICTS. CONTACT ENGINEER IMMEDIATELY IF FIELD ELEVATIONS DIFFER FROM THE DESIGN DRAWINGS.

4) MAINTAIN MINIMUM 2' OF COVER OVER METAL AND PLASTIC PIPES DURING CONSTRUCTION ACTIVITIES.

STORM 400
1" = 20' H, 1"=5' V



1" = 5'
5 2.5 0 5 10
VERTICAL: SCALE IN FEET

1" = 20'
20 10 0 20 40
HORIZONTAL: SCALE IN FEET

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Know what's below. Call before you dig.

ENGINEER:
FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:
AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974
CONTACT: STACY BROWN

PROJECT:
O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS
210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057, PERMIT #

SEAL:
GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

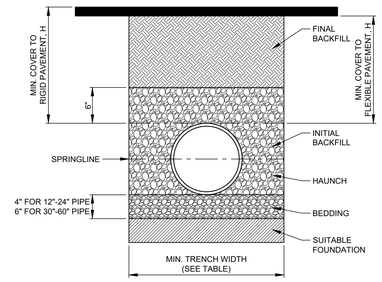
PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

STORM DRAINAGE PROFILES

SHEET NUMBER: C-2.3

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001



NOTES:
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

MINIMUM RECOMMENDED COVER BASED ON VECHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS

PIPE DIAM.	COOPER E-80**
UP TO 24"	24"
30"-36"	36"
42"-60"	48"

** COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE.
*** E-80 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2306 PIPE.

C-2.4 HDPE BEDDING, TRENCHING, AND BACKFILL
NOT TO SCALE

THE SELECTION OF STANDARD INSTALLATION:
SELECTION SHOULD BE BASED ON AN EVALUATION OF THE QUALITY OF CONSTRUCTION AND INSPECTION ANTICIPATED. A TYPE 1 STANDARD INSTALLATION REQUIRES THE HIGHEST CONSTRUCTION QUALITY AND DEGREE OF INSPECTION. REQUIRED CONSTRUCTION QUALITY IS REDUCED FOR A TYPE 2 STANDARD INSTALLATION, AND REDUCED FURTHER FOR A TYPE 3 STANDARD INSTALLATION. A TYPE 4 STANDARD INSTALLATION REQUIRES VIRTUALLY NO CONSTRUCTION OR QUALITY INSPECTION. CONSEQUENTLY, A TYPE 4 STANDARD INSTALLATION WILL REQUIRE A HIGHER STRENGTH PIPE, AND A TYPE I STANDARD INSTALLATION WILL REQUIRE A LOWER STRENGTH PIPE FOR THE SAME DEPTH OF INSTALLATION.

STANDARD INSTALLATIONS SOIL AND MINIMUM COMPACTION REQUIREMENTS

INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH AND OUTER BEDDING	LOWER SIDE
TYPE 1	O.D./24 MIN., NOT LESS THAN 75 MM (3"). IF ROCK FOUNDATION, O.D./12 MIN., NOT LESS THAN 150 MM (6").	95% CATEGORY I	90% CATEGORY I, 95% CATEGORY II, OR 100% CATEGORY III
TYPE 2	O.D./24 MIN., NOT LESS THAN 75 MM (3"). IF ROCK FOUNDATION, O.D./12 MIN., NOT LESS THAN 150 MM (6").	90% CATEGORY I, OR 95% CATEGORY II	85% CATEGORY I, 90% CATEGORY II, OR 95% CATEGORY III
TYPE 3	O.D./24 MIN., NOT LESS THAN 75 MM (3"). IF ROCK FOUNDATION, O.D./12 MIN., NOT LESS THAN 150 MM (6").	85% CATEGORY I, 90% CATEGORY II, OR 95% CATEGORY III	85% CATEGORY I, 90% CATEGORY II, OR 95% CATEGORY III
TYPE 4	NO BEDDING REQUIRED, EXCEPT IF ROCK FOUNDATION, USE O.D./12 MIN., NOT LESS THAN 150 MM (6").	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, THEN USE 85%	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, THEN USE 85%

NOTES:
1. COMPACTION AND SOIL SYMBOLS - I.E. "95% CATEGORY I"- REFERS TO CATEGORY I SOIL MATERIAL WITH MINIMUM STANDARD PROCTOR COMPACTION OF 95%. SEE TABLE FOR EQUIVALENT MODIFIED PROCTOR VALUES.
2. SOIL IN THE OUTER BEDDING, HAUNCH, AND LOWER SIDE ZONES, EXCEPT UNDER THE MIDDLE 1/3 OF THE PIPE, SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS THE MAJORITY OF SOIL IN THE OVERFILL ZONE.
3. FOR TRENCHES, TOP ELEVATION SHALL BE NO LOWER THAN 0.1 H BELOW FINISHED GRADE OR, FOR ROADWAYS, ITS TOP SHALL BE NO LOWER THAN AN ELEVATION OF 1 FOOT BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL.
4. FOR TRENCHES, WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
5. FOR TRENCH WALLS THAT ARE WITHIN 10 DEGREES OF VERTICAL, THE COMPACTION OR FIRMNESS OF THE SOIL IN THE TRENCH WALLS AND LOWER SIDE ZONE NEED NOT BE CONSIDERED.
6. FOR TRENCH WALLS WITH GREATER THAN 10 DEGREE SLOPES THAT CONSIST OF EMBANKMENT, THE LOWER SIDE SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS SPECIFIED FOR THE SOIL IN THE BACKFILL ZONE.
7. SUBTRENCHES
   7.1. A SUBTRENCH IS DEFINED AS A TRENCH WITH ITS TOP BELOW FINISHED GRADE BY MORE THAN 0.1 H OR, FOR ROADWAYS, ITS TOP IS AT AN ELEVATION LOWER THAN 1FT. BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL.
   7.2. THE MINIMUM WIDTH OF A SUBTRENCH SHALL BE 1.33 OUTSIDE Ø OR WIDER IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
   7.3. FOR SUBTRENCHES WITH WALLS OF NATURAL SOIL, ANY PORTION OF THE LOWER SIDE ZONE IN THE SUBTRENCH WALL SHALL BE AT LEAST AS FIRM AS AN EQUIVALENT SOIL PLACED TO THE COMPACTION REQUIREMENTS SPECIFIED FOR THE LOWER SIDE ZONE AND AS FIRM AS THE MAJORITY OF SOIL IN THE OVERFILL ZONE, OR SHALL BE REMOVED AND REPLACED WITH SOIL COMPACTED TO THE SPECIFIED LEVEL.

EQUIVALENT USCS AND AASHTO SOIL CLASSIFICATIONS FOR SIDD SOIL DESIGNATIONS

	REPRESENTATIVE SOIL TYPES		PERCENT COMPACTION	
SIDD SOIL	USCS,	STANDARD AASHTO	STANDARD PROCTOR	MODIFIED PROCTOR
GRAVELLY SAND (CATEGORY I)	SW, SP, GW, GP	A1, A3	100 95 90 85 80 61	95 90 85 80 75 59
SANDY SILT (CATEGORY II)	GM, SM, ML, ALSO GC, SC WITH LESS THAN 20% PASSING #200 SIEVE	A2, A4	100 95 90 85 80 49	95 90 85 80 75 46
SILTY CLAY (CATEGORY III)	CL, MH, GC, SC	A5, A6	100 95 90 85 80 45	90 85 80 75 70 40

C-2.4 RCP BEDDING, TRENCHING, AND BACKFILL
NOT TO SCALE

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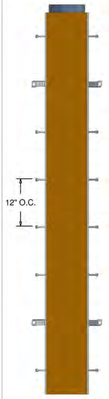
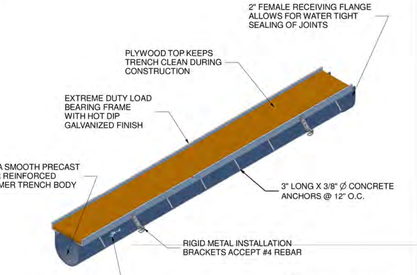
DTPFa-EXG15TEA **8" PRECAST TRENCH DRAIN** R1



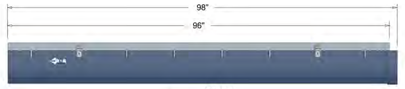
TOP VIEW



ISOMETRIC VIEW

NOTE:
ALL TRENCHES ARE FACTORY ASSEMBLED AND READY FOR SITE INSTALLATION

END VIEW



SIDE VIEW

TRENCH MATERIAL	FIBER REINFORCED POLYMER
FRAME MATERIAL	STEEL PER ASTM A-36
FRAME COATING	HOT DIP GALVANIZE
ANCHOR STUDS	3" X 3/8" Ø
INSTALL DEVICE	RIGID STAMPED METAL FOR #4 BARS
LOAD RATING	EXTREME DUTY
SLOPE	~~0.5% TYP.~~ (CUSTOM SLOPE AVAILABLE)

1.0%

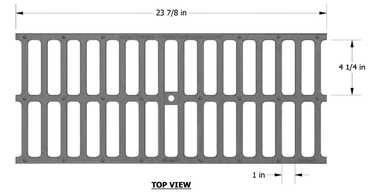
STANDARD TOLERANCES
0 = +/-0.25
0.0 = +/-0.25
0.00 = +/- 0.13

Dura Trench
574c Industrial Way N.
Dallas, GA 30132
PH: 770-505-6575
www.trenchdrain.net

10B24DI **10" SLOTTED IRON GRATE** R2

ISOMETRIC VIEW

SIDE VIEW



TOP VIEW

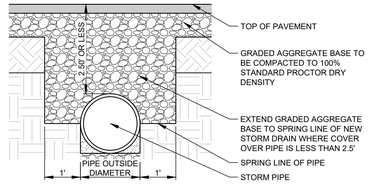
END VIEW

MATERIAL	DUCTILE IRON 65-45-12
COATING	BLACK E-COATING
LOCKING	BOLT AND TOGGLE
LOAD RATING	DIN CLASS E
ADA / HEEL GUARD	NO

STANDARD TOLERANCES
0 = +/-0.25
0.0 = +/-0.25
0.00 = +/- 0.13

Dura Trench manufactured by Ride'nour
574c Industrial Way N.
Dallas, GA 30132
PH: 770-505-6575
www.trenchdrain.net

C-2 TRENCH DRAIN & GRATE
NOT TO SCALE



C-2.4 STORM PIPE MINIMUM COVER
NOT TO SCALE

ENGINEER:
FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:
AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974
CONTACT: STACY BROWN

PROJECT:
O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS
210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057, PERMIT #

SEAL:
GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

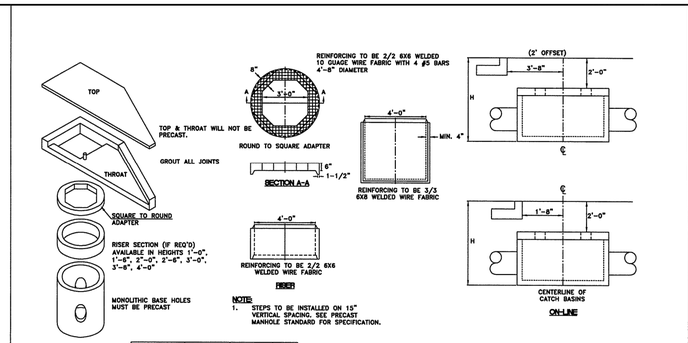
PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

DRAINAGE DETAILS

SHEET NUMBER: C-2.4

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001



NOTE:
1. STEPS TO BE INSTALLED ON 15" VERTICAL SPACING. SEE PRECAST MANHOLE STANDARD FOR SPECIFICATION.

BASE HEIGHT	METAL PIPE	CONC PIPE	H(MIN)
4' DIA – 2'-6"	18"	12"	5'-0"
3'-0"	24"	18"	5'-8"
3'-6"	30"	24"	6'-0"
4'-0"		30"	6'-6"

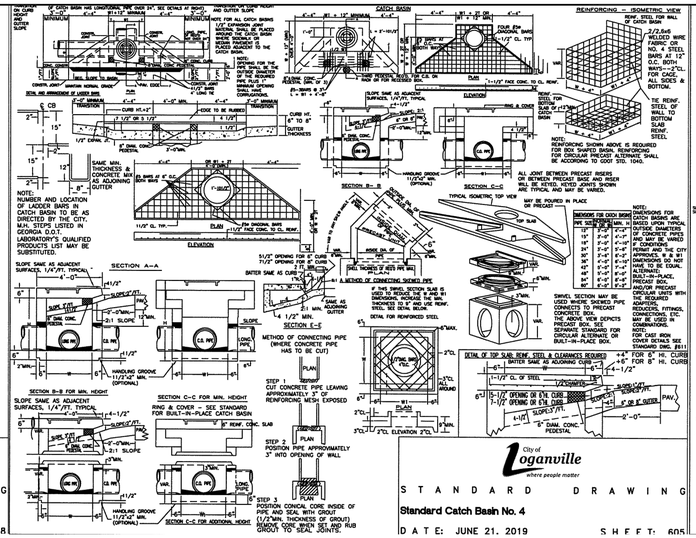
NOTES:
1. CATCH BASIN TO BE INSTALLED WITH PIPE OPENING AS SPECIFIED.
2. CONCRETE: MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI.

City of Loganville — where people matter

STANDARD DRAWING

Standard Precast Round Catch Basin

DATE: JUNE 21, 2019 SHEET: 608

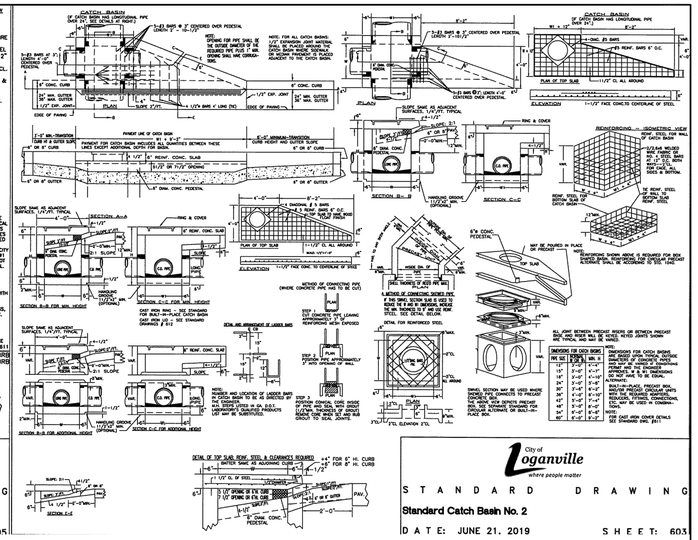


City of Loganville — where people matter

STANDARD DRAWING

Standard Catch Basin No. 4

DATE: JUNE 21, 2019 SHEET: 605



City of Loganville — where people matter

STANDARD DRAWING

Standard Catch Basin No. 2

DATE: JUNE 21, 2019 SHEET: 603

ENGINEER:

FORESITE group

Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:

AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974

CONTACT: STACY BROWN

PROJECT:

O'KELLY MEMORIAL LIBRARY

CONSTRUCTION DOCUMENTS

210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057, PERMIT #

SEAL:

GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

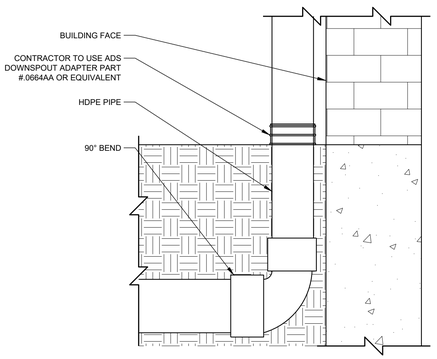
DRAINAGE DETAILS

SHEET NUMBER:

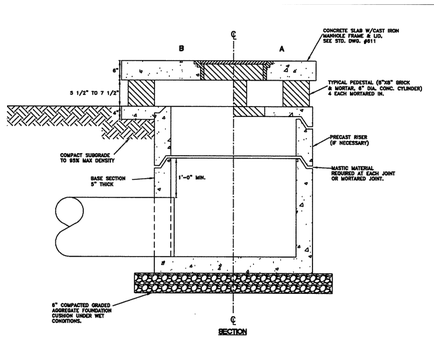
C-2.5

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001



C-2.5 DOWNSPOUT CONNECTION
NOT TO SCALE



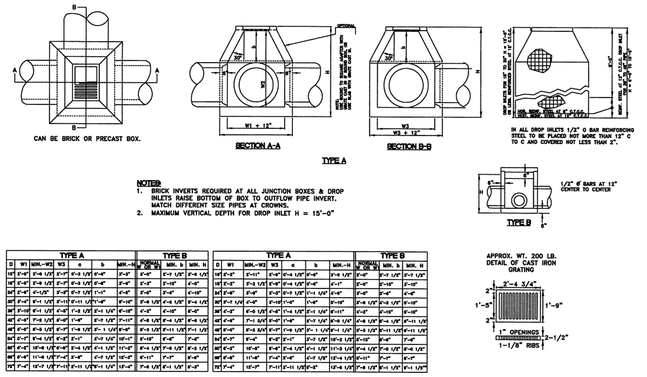
NOTES:
1. SUBGRADE TO BE COMPACTED TO 95% MAX. DRY DENSITY PER STANDARD PROCTOR.
2. PLACE REINFORCEMENT STEEL TO ALLOW A MIN. OF 1 1/2" COVER, EXCEPT WHERE NOTED.
3. REINFORCEMENT STEEL TO BE GRADE 60 AND TO CONSIST OF NO. 4 @ 8" O.C. E.W.
4. CONCRETE: MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI.
5. WHEN 60" @ 72" BASE SECTIONS ARE REQUIRED, USE AN ADAPTER SECTION IN CONJUNCTION WITH THE STANDARD CONE.
6. CONCRETE TOP COVER THICKNESS: 8" – VEHICULAR TRAFFIC AREAS.

City of Loganville — where people matter

STANDARD DRAWING

Standard Precast Round Drop Inlet

DATE: JUNE 21, 2019 SHEET: 610



NOTES:
1. BRICK INVERTS REQUIRED AT ALL JUNCTION BOXES & DROP INLETS RAISE BOTTOM OF BOX TO OUTFLOW PIPE INVERT. MATCH DIFFERENT SIZE PIPES AT CROWNS.
2. MAXIMUM VERTICAL DEPTH FOR DROP INLET H = 15'-0"

TYPE A						TYPE B	
D	W1	MIN.–W2	W3	a	b	MIN.–H	NORMAL (W_OR_W)	MIN. h	MIN. H
15"	2'-6"	3'-0"	3'-0 1/2"	1'-6"		2'-9"	2'-6"	1'-1 1/2"	2'-9 1/2"
18"	2'-6"	3'-0"	3'-0 1/2"	1'-6"		2'-9"	2'-6"	1'-1 1/2"	2'-9 1/2"
24"	3'-0"	3'-6"	3'-6 1/2"	1'-6"		3'-3"	3'-0"	1'-4 1/2"	3'-3"
30"	3'-6"	4'-0"	4'-0 1/2"	1'-6"		3'-9"	3'-6"	1'-7 1/2"	3'-9"
36"	4'-0"	4'-6"	4'-6 1/2"	1'-6"		4'-3"	4'-0"	1'-10 1/2"	4'-3"
42"	4'-6"	5'-0"	5'-0 1/2"	1'-6"		4'-9"	4'-6"	2'-1 1/2"	4'-9"
48"	5'-0"	5'-6"	5'-6 1/2"	1'-6"		5'-3"	5'-0"	2'-4 1/2"	5'-3"
54"	5'-6"	6'-0"	6'-0 1/2"	1'-6"		5'-9"	5'-6"	2'-7 1/2"	5'-9"
60"	6'-0"	6'-6"	6'-6 1/2"	1'-6"		6'-3"	6'-0"	2'-10 1/2"	6'-3"
66"	6'-6"	7'-0"	7'-0 1/2"	2'-0"	1'-6"	6'-9"	6'-6"	3'-1 1/2"	6'-9"
72"	7'-0"	7'-6"	7'-6 1/2"	2'-0"	1'-6"	7'-3"	7'-0"	3'-4 1/2"	7'-3"
78"	7'-6"	8'-0"	8'-0"	2'-0"	1'-6"	7'-9"	7'-6"	3'-7 1/2"	7'-9"
84"	8'-0"	8'-6"	8'-6 1/2"	2'-0"	1'-6"	8'-3"	8'-0"	3'-10 1/2"	8'-3"
90"	8'-6"	9'-0"	9'-0 1/2"	2'-0"	1'-6"	8'-9"	8'-6"	4'-1 1/2"	8'-9"
96"	9'-0"	9'-6"	9'-6 1/2"	2'-0"	1'-6"	9'-3"	9'-0"	4'-4 1/2"	9'-3"
102"	9'-6"	10'-0"	10'-0 1/2"	2'-0"	1'-6"	9'-9"	9'-6"	4'-7 1/2"	9'-9"
108"	10'-0"	10'-6"	10'-6 1/2"	2'-0"	1'-6"	10'-3"	10'-0"	4'-10 1/2"	10'-3"
114"	10'-6"	11'-0"	11'-0 1/2"	2'-0"	1'-6"	10'-9"	10'-6"	5'-1 1/2"	10'-9"
120"	11'-0"	11'-6"	11'-6 1/2"	2'-0"	1'-6"	11'-3"	11'-0"	5'-4 1/2"	11'-3"

CONCRETE DI

TYPE A						TYPE B	
D	W1	MIN.–W2	W3	a	b	MIN.–H	NORMAL (W_OR_W)	MIN. h	MIN. H
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18"	2'-11"	3'-6"	3'-6 1/2"	2'-6"	2'-0"	3'-3"	3'-0"	1'-5"	3'-3"
24"	3'-6"	4'-0"	4'-0 1/2"	2'-6"	2'-0"	3'-9"	3'-6"	1'-8"	3'-9"
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42"	5'-0"	5'-6"	5'-6 1/2"	2'-6"	2'-0"	5'-3"	5'-0"	2'-5"	5'-3"
48"	5'-6"	6'-0"	6'-0 1/2"	2'-6"	2'-0"	5'-9"	5'-6"	2'-8"	5'-9"
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66"	7'-0"	7'-6"	7'-6 1/2"	2'-6"	2'-0"	7'-3"	7'-0"	3'-5"	7'-3"
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102"	10'-0"	10'-6"	10'-6 1/2"	2'-6"	2'-0"	10'-3"	10'-0"	4'-11"	10'-3"
108"	10'-6"	11'-0"	11'-0 1/2"	2'-6"	2'-0"	10'-9"	10'-6"	5'-2"	10'-9"
114"	11'-0"	11'-6"	11'-6 1/2"	2'-6"	2'-0"	11'-3"	11'-0"	5'-5"	11'-3"
120"	11'-6"	12'-0"	12'-0 1/2"	2'-6"	2'-0"	11'-9"	11'-6"	5'-8"	11'-9"

BRICK DI

APPROX. WT. 200 LB.
DETAIL OF CAST IRON GRATING

City of Loganville — where people matter

STANDARD DRAWING

Standard Drop Inlet

DATE: JUNE 21, 2019 SHEET: 609

BIORETENTION NOTES:

CONSTRUCT BIORETENTION BASINS IN ACCORDANCE WITH THESE CONSTRUCTION DRAWINGS AFTER FINAL GRADE AND STABILIZATION OF THE AREA UPSTREAM OF EACH BIORETENTION BASIN ARE ACHIEVED. IF THIS IS NOT FEASIBLE, STORMWATER FLOW SHALL BE DIVERTED AROUND THE BIORETENTION BASIN AREA. THE NATIVE SUBGRADE SOILS MUST BE PROTECTED TO A GRADE OF 24 INCHES ABOVE THE BOTTOM OF THE EXCAVATED AREA FROM EROSION AND SEDIMENTATION - WATER MUST BE DIVERTED AROUND THE BASIN AREA. REFER TO THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLANS FOR ANTICIPATED PROTECTION AND DIVERSION FOR PROPOSED BMPs. TREE FENCING SHOULD BE PLACED AROUND THE BASIN AREA TO PREVENT EXCESSIVE VEHICULAR TRAVEL/COMPACTION AND EROSION/SEDIMENTATION WHEN THE ELEVATION IS AT OR BELOW THE FINAL GRADE OF THE FINISHED BIORETENTION BASIN. DO NOT EXCAVATE THE BASIN UNTIL TIME OF BASIN CONSTRUCTION. ONCE THE BIORETENTION BASIN SECTION HAS BEEN CONSTRUCTED, VEGETATION SHALL BE PLANTED WITHIN THE BIORETENTION BASIN PER THE DETAILS SHOWN IN THE PLANS. CONTRACTOR SHALL MAINTAIN THE BIORETENTION BASIN AFTER CONSTRUCTION FOR A MINIMUM OF 6 MONTHS. AT THE END OF THE 6 MONTH PERIOD, ENGINEER SHALL INSPECT THE BIORETENTION BASIN IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE MANUAL AND CONTRACTOR TO MAKE ANY REPAIRS NECESSARY. IF IT APPEARS THE BASIN HAS STANDING WATER, FURTHER SOIL TESTING MAY BE PERFORMED AT THE COST OF THE CONTRACTOR, AND RECOMMENDATIONS WILL BE MADE BY ENGINEER TO REPAIR THE BIORETENTION BASIN.

1. **EXCAVATION**
   SOIL MIX AND OTHER MATERIALS SHALL BE APPROVED IMMEDIATLEY PRIOR TO EXCAVATION. EXCAVATION SHALL BE LIMITED TO THE WIDTH AND LENGTH OF THE BIORETENTION BASIN PER THE DETAILS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. AVOID PLACING EXCAVATED MATERIAL NEAR THE TRENCH SO AS NOT TO JEOPARDIZE THE STABILITY OF THE TRENCH SIDEWALLS. THE BOTTOM OF THE EXCAVATED TRENCH SHOULD BE FLAT ACROSS ITS WIDTH AND LENGTH, SHALL NOT BE LOADED IN A WAY THAT CAUSES SOIL COMPACTION, AND SHOULD BE SCARIFIED PRIOR TO PLACEMENT OF SPECIFIED MATERIALS. THE SIDES OF THE TRENCH SHALL BE TRIMMED OF ALL LARGE ROOTS. THE SIDEWALLS SHOULD BE UNIFORM WITH NO VOIDS AND SCARIFIED PRIOR TO PLACEMENT OF MATERIALS FOR SPECIFIED ENGINEERED DRAINAGE LAYERS. TRENCH SIDEWALLS SHALL BE LINED WITH THE SPECIFIED FILTER FABRIC. IMMEDIATELY UPON COMPLETION OF EXCAVATION, ONE INFILTRATION TEST PER 2000 SQUARE FEET (WITH A MINIMUM OF 2 TESTS) SHALL BE PERFORMED AT EVENLY SPACED INTERVALS IF THE BIORETENTION BASIN IS DESIGNED FOR INFILTRATION. IF INFILTRATION RESULTS INDICATE AVERAGE INFILTRATION OF LESS THAN 0.5 INCHES PER HOUR, THE ENGINEER SHOULD BE CONSULTED FOR ADJUSTMENT TO THE UNDERDRAIN SYSTEM. IF THE SYSTEM DOES NOT HAVE AN UNDERDRAIN, THE ENGINEER SHOULD BE CONSULTED FOR SUBGRADE PREP RECOMMENDATIONS. IF UNFORSEEN CONDITIONS SUCH AS GROUNDWATER OR ROCK ARE ENCOUNTERED, THE ENGINEER SHOULD BE NOTIFIED IN WRITING IMMEDIATELY UPON DISCOVERY.

2. **UNDERDRAIN SYSTEM/AGGREGATE LAYER**
   INSTALL UNDERDRAIN SYSTEM(S) USING PERFORATED POLYETHYLENE OR PERFORATED PVC PIPE AT THE LOCATIONS AND DEPTH PER DETAILS SHOWN IN THE PLANS FOR CONVEYANCE OF STORMWATER THAT HAS FILTERED THROUGH THE MEDIA. PERFORATIONS SHALL BE 3/8-INCH DIAMETER AND SPACED 6-INCHES ON CENTER WITH FOUR ROWS RUNNING LONGITUDINALLY WHILE THE PIPE IS PLACED AT A MINIMUM SLOPE OF 0.5%. A REMOVABLE END CAP CONNECTED TO THE UNDERDRAIN SYSTEM SHALL BE INSTALLED PER THE DETAILS SHOWN IN THE PLANS. IF INFILTRATION IS FEASIBLE, THE END CAP SHALL BE CLOSED EXCEPT FOR EMERGENCY DRAINAGE OR MAINTENANCE PURPOSES. THE UNDERDRAIN PIPE SHALL BE SURROUNDED BY AN AGGREGATE LAYER AS DEFINED IN THE DETAILS AND A 2-3-INCH FILTER BLANKET OF GDOT STD. SIZE NO. 8 OR NO. 89 AGGREGATE SHALL BE USED TO SEGREGATE THE AGGREGATE LAYER FROM THE ENGINEERED SOIL MIX. AGGREGATES USED IN UNDERDRAIN SYSTEMS SHALL BE DOUBLE WASHED AND FREE OF FINES AND ORGANIC MATERIALS. CLEANOUTS SHALL BE PROVIDED AT THE END OF EACH UNDERDRAIN BRANCH AND PLACED AT A MAXIMUM SPACING OF 100 LINEAR FEET. CLEANOUTS SHALL EXTEND TO AN ELEVATION SUCH THAT THEY ARE ACCESSIBLE ONCE THE TRENCH IS BACKFILLED WITH THE SPECIFIED MEDIA AND SHALL HAVE A LOCKING SCREW TOP LID, TO DISCOURAGE VANDALISM AND TAMPERING.
3. **ENGINEERED SOIL MIX**
   INSTALL THE ENGINEERED SOIL MIX SPECIFIED ABOVE FOR THE 24-INCH-MINIMUM-THICKNESS ENGINEERED SOIL MIX AND NONWOVEN FILTER FABRIC PER THE DETAILS SHOWN IN THE PLANS. THE ENGINEERED SOIL MIX SHALL BE PLACED IN A MAXIMUM OF 12-INCH LIFTS AND SHALL BE PROTECTED FROM CONTAMINATION BY FOREIGN MATTER DURING INSTALLATION. IF THE ENGINEERED SOIL MIX BECOMES CONTAMINATED OR THE FILTER FABRIC IS DAMAGED, REMOVE CONTAMINATED OR DAMAGED MATERIALS AND REPLACE THEM AT NO ADDITIONAL COST TO THE OWNER. AVOID USING HEAVY EQUIPMENT ON THE BASIN AREA DURING INSTALLATION TO MAINTAIN HYDRAULIC CONDUCTIVITY OF THE ENGINEERED SOIL MIX AND TO PREVENT DAMAGE TO THE UNDERDRAINS.
4. **MULCH LAYER**
   THE MULCH LAYER OF THE BIORETENTION BASIN SHALL BE A MINIMUM THICKNESS OF 3 INCHES AND SHALL CONSIST OF DOUBLE SHREDDED HARDWOOD MULCH RESISTANT TO FLOATING (GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATION SECTION 893.2.09.A.4). THE MULCH LAYER SHOULD BE WELL AGED (STOCKPILED OR STORED FOR AT LEAST SIX MONTHS), UNIFORM IN COLOR, AND FREE OF OTHER MATERIALS, SUCH AS WEED SEEDS, SOIL, ROOTS, ETC. GRASS CLIPPINGS OR PINE STRAW SHALL NOT BE USED AS MULCH MATERIAL.
5. **PLANTINGS**
   PLANT SPECIES USED IN BIORETENTION BASINS SHALL BE INSTALLED PER THE DETAILS SHOWN IN THE PLANS AND MEET THE REQUIREMENTS OUTLINED IN GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATION SECTION 702 OR AS OTHERWISE NOTED IN THESE CONSTRUCTION DRAWINGS. PLANTS SHALL BE SELECTED ON THE BASIS OF A SPECIFIED HYDRIC TOLERANCE ZONE AND SHALL BE CAPABLE OF SURVIVING BOTH WET AND DRY CONDITIONS. ALL PLANTS USED SHALL BE WELL GROWN AND HEALTHY AND FREE FROM DISEASE AND INFESTATION BY INVASIVE SPECIES. TREES SHALL NOT BE PLANTED IN BIORETENTION BASINS BELOW THE ELEVATION OF THE OVERFLOW DRAIN.
6. **PRETREATMENT**
   INSTALL RIPRAP FOREBAYS, FILTER STRIPS, LEVEL SPREADERS AND OTHER PRETREATMENT DEVICES PER THE DETAILS AND AT THE LOCATIONS SPECIFIED IN THE PLANS. RIPRAP SHALL BE GDOT STD. TYPE 3 UNLESS OTHERWISE NOTED. ALL FILTER FABRIC PLACED UNDER RIP-RAP SHALL BE WOVEN TO MEET THE REQUIREMENTS OF GDOT SPECIFICATIONS SECTION 881.2.05.
7. **SIGNAGE**
   INSTALL SIGNAGE PER THE DETAILS AND LOCATIONS SPECIFIED IN THE PLANS.

ENGINEERED SOIL MIX NOTES

1. USE AN ENGINEERED SOIL MIX THAT MEETS THE REQUIREMENTS ABOVE. DO NOT USE A MIXTURE THAT CONTAINS ANY DELETERIOUS SUBSTANCES. OBTAIN MATERIALS FROM SOURCE APPROVED BY THE ENGINEER. ENSURE THAT AGGREGATE RETAINED ON THE No. 10 SIEVE IS OF HARD, DURABLE PARTICLES.
2. REMOVE PARTICLES WITH A DIAMETER OF GREATER THAN 2 IN. BEFORE PLACING THE ENGINEERED SOIL MIX. REMOVE PARTICLES WITH SCREENS OR BY HAND IF FEW OVERSIZED PIECES EXIST. OTHERWISE CRUSH THE OVERSIZED PIECES TO LESS THAN 2 IN. AND USE THEM IN PROPORTIONS SHOWN IN THE GRADATION ON THE MIX DESIGN TABLE.
3. ALL COMPONENTS SHALL BE FREE OF HEAVY METALS, PATHOGENS, PESTICIDES, AND HERBICIDES.

SOIL MIX TESTING AND ACCEPTANCE

THE CONTRACTOR IS REQUIRED TO SUBMIT A MINIMUM OF THREE (3) CUBIC-FOOT-SIZED RANDOM SOIL SAMPLES PER 150 TONS OF MATERIAL PER EACH SOURCE TO THE GEOTECHNICAL ENGINEER 10 WORKING DAYS BEFORE PLACEMENT FOR TESTING TO ENSURE ACCEPTABILITY FOR USE AS DIRECTED BY THE PROJECT ENGINEER. THE FOLLOWING TESTS WILL BE PERFORMED:

- GRADATION - ASTM D6913
- DENSITY AND WEIGHT SPECIFICATIONS - ASTM D7263
- LIQUID LIMIT AND PLASTICITY INDEX - ASTM D4318
- PERMEABILITY (FALLING HEAD) - ASTM D5084

THE TEST RESULTS MUST DEMONSTRATE THE SOIL MIX MEETS THE ACCEPTABLE VALUES SPECIFIED FOR THE ENGINEERED SOIL MIX ABOVE. IF TEST RESULTS SHOW PARAMETERS DO NOT MEET THE ACCEPTABLE VALUES SPECIFIED ABOVE, THE SOIL MUST BE AMENDED AND RETESTED. ACCEPTANCE BY THE ENGINEER MUST BE GRANTED PRIOR TO PLACEMENT.

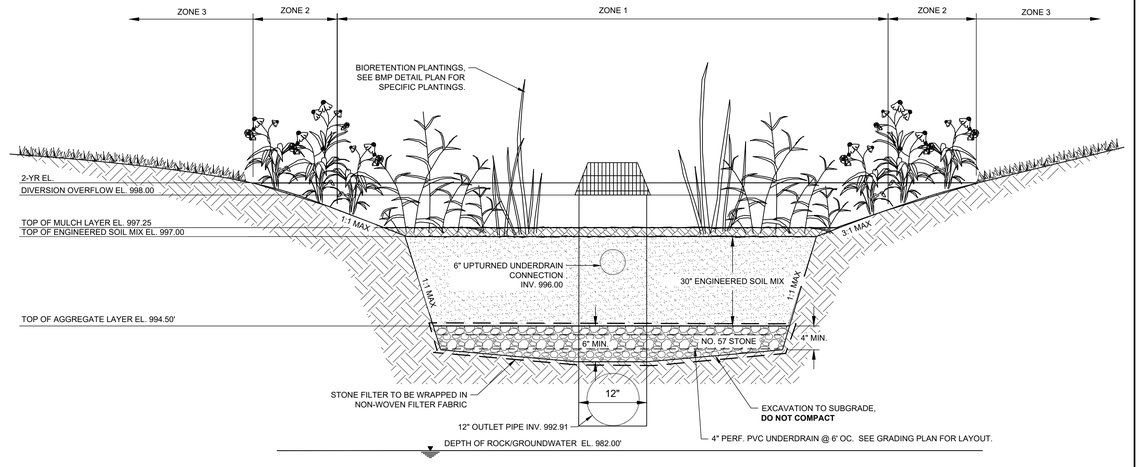
ENGINEERED SOIL MIX	
MATERIAL	%BY DRY WEIGHT
COMPOSTED ORGANIC MATTER	5-10%
INORGANIC TOPSOIL	90-95%
INORGANIC TOPSOIL PROPERTIES	
SIEVE SIZE	PERCENT PASSING BY WEIGHT
PASSING 2 IN.	100
PASSING No. 4	98-100
PASSING No. 8	95-100
PASSING No. 10	86-100
PASSING No. 16	70-100
PASSING No. 30	40-75
PASSING No. 50	10-35
PASSING No. 100	2-15
PASSING No. 200	0-10
CLAY SIZE	0-6
FOR MATERIAL PASSING NO. 10 SIEVE:	
PROPERTY	VALUE
LIQUID LIMIT (LL)	≤25
PLASTICITY INDEX (PI)	≤10
VOLUME CHANGE, MAX. PERCENT	12
MAX. DRY DENSITY, LB/CF	105
PERMEABILITY (IN/HR)	1-6
* BY STANDARD PROCTOR	

SUGGESTED CONSTRUCTION SEQUENCING

1. **IT IS IMPERATIVE THAT THE INSTALLED BMP IS NOT SUBJECTED TO CONSTRUCTION SEDIMENT. SMALL AMOUNTS OF SILT MAY RESULT IN SIGNIFICANT REPAIR OR REPLACEMENT OF THE BMP.**
2. INSTALL APPROPRIATE TEMPORARY EROSION CONTROL DEVICES TO PREVENT SEDIMENT FROM LEAVING OR ENTERING THE PRACTICE DURING CONSTRUCTION.
3. ALL DOWN-GRADIENT PERIMETER SEDIMENT CONTROL BMP'S MUST BE IN PLACE BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITY BEGINS.
4. PERFORM CONTINUOUS INSPECTIONS OF EROSION CONTROL PRACTICES, ESPECIALLY AFTER EACH RAINFALL EVENT.
5. INSTALL ALL UTILITIES (WATER, SANITARY SEWER, ELECTRIC, NATURAL GAS, PHONE, FIBER OPTIC, ETC) PRIOR TO SETTING FINAL GRADE OF BIORETENTION DEVICE.
6. ROUGH GRADE THE SITE. IF BIORETENTION AREAS ARE BEING USED AS TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION, LEAVE A MINIMUM OF 1 FEET OF COVER OVER THE PRACTICE TO PROTECT THE UNDERLYING SOILS FROM CLOGGING.
7. COMPLETE, STABILIZE, AND VEGETATE ALL OTHER SITE IMPROVEMENTS.
8. CONSTRUCT AND VEGETATE BIORETENTION DEVICE FOLLOWING STABILIZATION OF CONTRIBUTING DRAINAGE AREA. ENSURE THAT CRITICAL ELEVATIONS, SUCH AS TOP OF MEDIA, TOP OF MULCH, AND INVERT OF OVERFLOW SWALE ARE CORRECT.
9. REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER THE CONTRIBUTING DRAINAGE AREA IS ADEQUATELY VEGETATED.
10. IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE BMP DURING OR IMMEDIATELY FOLLOWING EXCAVATION, THIS MATERIAL SHALL BE REMOVED FROM THE PRACTICE PRIOR TO CONTINUING CONSTRUCTION.

PLANTING ZONE NOTES:

1. ACCEPTABLE SPECIES FOR BIORETENTION ARE DESIGNATED AS ZONE 1, 2, OR 3. REFER TO THE GEORGIA STORMWATER MANAGEMENT MANUAL FOR ACCEPTABLE SPECIES WITHIN EACH OF THE PLANTING ZONES.
2. ZONE 1 IS ANTICIPATED TO BE FREQUENTLY FLOODED.
3. ZONE 2 IS ANTICIPATED TO BE SUBJECT TO EXCESSIVELY WET SOILS AND OCCASIONALLY FLOODED
4. ZONE 3 IS ANTICIPATED TO BE RELATIVELY DRY SOILS AND OCCASIONALLY FLOODED FOR A BRIEF PERIOD OF TIME. MOST UPLAND PLANT SPECIES ARE TOLERANT OF ZONE 3 CONDITIONS.



BIORETENTION 1 SECTION
NOT TO SCALE

ENGINEER:
FORESITE group
Foresite Group, LLC
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Suite 100
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DRAINAGE DETAILS

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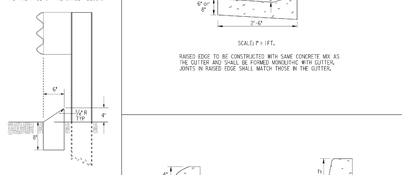
JOB/FILE NUMBER: 2184.001

RAISED EDGE WITH CONCRETE GUTTER



SCALE: 1" = 1FT.

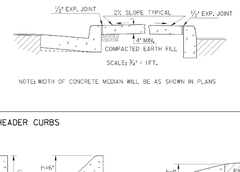
RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

TYPE 8

TYPE 8 CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4022.

CONCRETE MEDIAN (Between Curbs)

NOTE: CURB TYPES SHOWN ARE TYPICAL. OTHER TYPES MAY BE SPECIFIED.



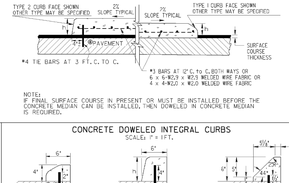
SCALE: ¾" = 1FT.

NOTE: WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

NOTE:
IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (CONSTRUCTION DETAIL A-3 AND A-4) WILL BE REQUIRED.

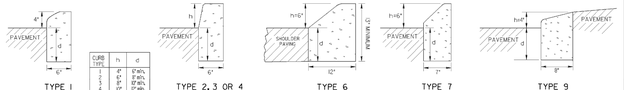
CONCRETE MEDIANS (Integral)

SCALE: 1" = 1FT.



NOTE:
FINISHAL SURFACE COURSE IN PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

CONCRETE HEADER CURBS



CURB TYPE	h	d
1	6"	6"MIN.
2	8"	6"MIN.
3	8"	8"MIN.
4	12"	6"MIN.
6	6"	6"MIN.
7	12"	8"MIN.
9	8"	8"MIN.

THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.

SCALE: ½" = 1FT.

CONCRETE DOWELED INTEGRAL CURBS

SCALE: 1" = 1FT.

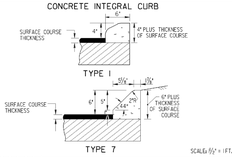
NOTES:
1. CONCRETE CURB CAN BE INSTALLED AFTER INITIAL SET AS LONG AS TIE BARS ARE DRILLED INTO UNDERLAYING CONCRETE PAVEMENT.
2. CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVEMENT.
3. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
4. ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENT. HOWEVER, TIE BARS MUST BE INSTALLED OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDIAN AT 20 FT. SPACING.

MINIMUM TIE BARS LENGTHS
(FOR CONC. DOWELED CURBS OR CONC. MEDIANS)

CURB TYPE	P.C.C. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 OR 4	8"	12"
7	8"	8"

NOTE:
TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAIN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT, (AASHTO M-31)

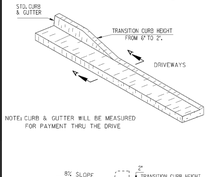
CONCRETE INTEGRAL CURB



SCALE: ½" = 1FT.

DETAILS OF RECESSED CURB FOR DRIVEWAYS

NO SCALE



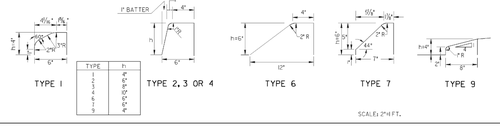
NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

CONCRETE CURB & GUTTER

* ** AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OR BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

CURB FACE DESIGN



TYPE	h
1	6"
2	6"
3	8"
4	12"
6	6"
7	12"
9	8"

SCALE: 2" = 1FT.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

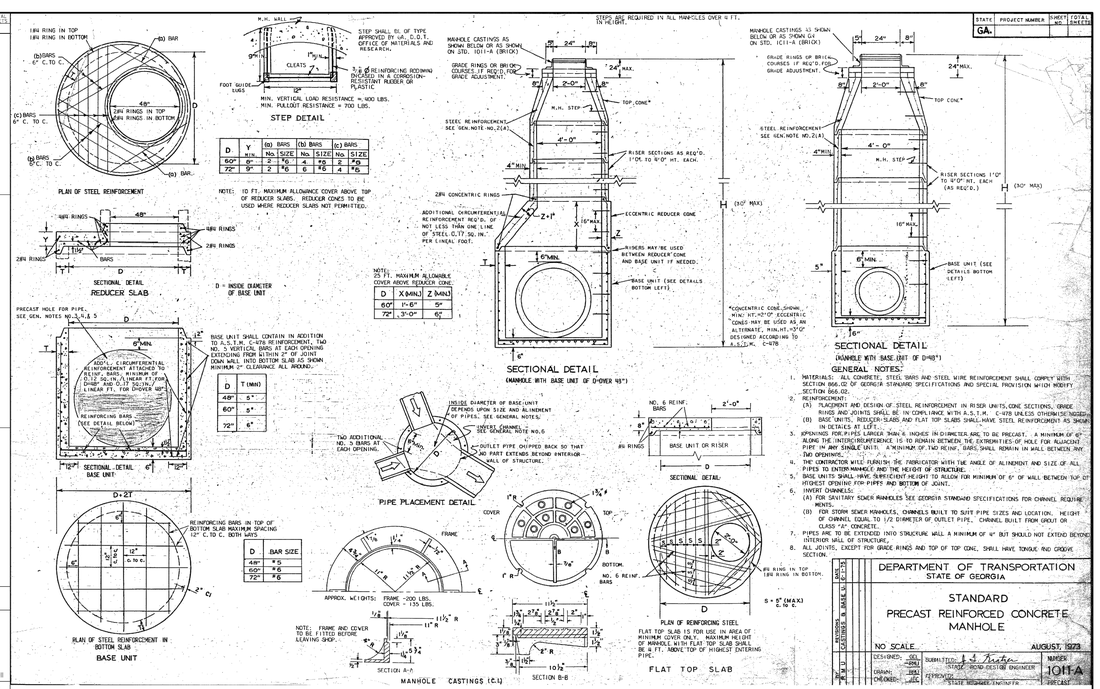
STANDARD
CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

SCALE: AS SHOWN — REVISED AND REDRAWN OCT. 2018

NO.	REVISIONS	BY	DATE
10	REVISED TYPE 9 CURB		3-02
9	REVISED TYPE 9 CURB		2-01
8	ADDED TYPE 9 CURB		1-99
7	ADDED GENERAL NOTE 3		9-5-96
6	REVISION NOT AVAILABLE		1-21-94
5	REVISED		1-21-94

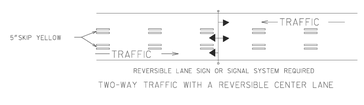
DES. SUBMITTED: [signature] STATE DESIGN ENGINEER
DRN. TRA. CHK. APPROVED: [signature] CHIEF ENGINEER

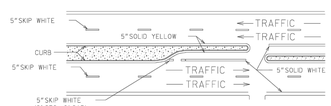
NUMBER 9032B

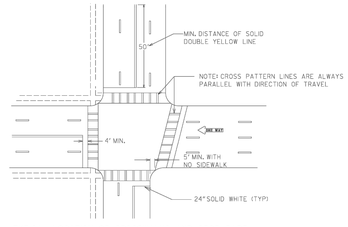


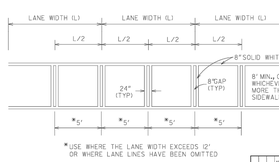
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

RAISED EDGE WITH CONCRETE GUTTER









GENERAL NOTES:
1. SPACING BETWEEEN DOUBLE LINES SHALL BE EQUAL TO THE LINE WIDTH.
2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.
3. CONTRAST MARKINGS FOR SKIP STRIPING SHALL BE AS SHOWN IN DETAIL T-IIB.

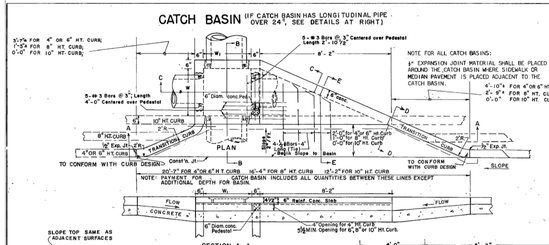
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
PAVEMENT MARKING PLACEMENT
NON-LIMITED ACCESS ROADWAY

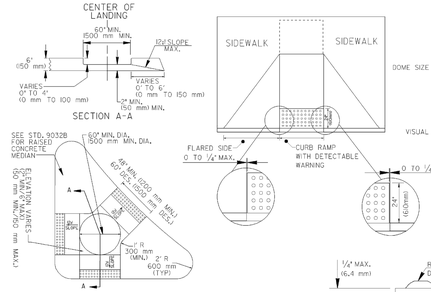
NO SCALE — JANUARY 2000

NUMBER T-IIA

CATCH BASIN (IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT)


1½"/9" FOR 4" OR 6" HT. CURB; 2"-0" FOR 8" HT. CURB; 2'-0" FOR 10" HT. CURB
5-Ø 3 Bars @ 3", Length 4'-0" Centered over Pedestal
6" Diam. conc. Pedestal
6" HT CURB
8" HT CURB
10" HT CURB
EXPANSION JOINT
TRANSITION CURB
4" Slope to Basin
PLAN
NOTE FOR ALL CATCH BASINS:
½" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN.
4'-10" FOR 6" HT CURB
2'-9" FOR 8" HT CURB
0'-0" FOR 10" HT CURB
TO CONFORM WITH CURB DESIGN
Const'n. Jt.
20'-3" FOR 6" OR 8" HT CURB
15'-3" FOR 10" HT CURB
NOTE: PAYMENT FOR ADDITIONAL DEPTH FOR BASIN, CATCH BASIN INCLUDES ALL QUANTITIES BETWEEN THESE LINES EXCEPT
6" Diam. conc. Pedestal
Opening for 6" HT Curb
Opening for 8" HT Curb
Opening for 10" HT Curb
FLOW
CONCRETE
4'-0" Reinf. Conc. Slab
SECTION A-A
SLOPE TOP SAME AS ADJACENT SURFACES
RING & COVER
Slope 2:1
Long. Pipe
C. D. PIPE
CO PIPE
LONGIT. PIPE
Handling Groove (OPTIONAL)
SECTION B-B FOR MIN. HEIGHT
SECTION C-C FOR MIN. HEIGHT
ORIENT. ±45°
SECTION B-B FOR ADDITIONAL HEIGHT
SECTION C-C FOR ADDITIONAL HEIGHT
SEC. D-D FOR BUILT-IN-PLACE
4'-0" Diagonal @ 5 Bars
@ 5 Reinf. Bars 6" O.C.
The Slab To Have Wood Float Finish
PLAN OF TOP SLAB
ELEVATION
1½" Face conc. To ¢ of Steel
DETAIL AND ARRANGEMENT OF LADDER BARS
NOTE: AN ALTERNATE TYPE STEP APPROVED BY THE LABORATORY MAY BE SUBSTITUTED.
¢ of Catch Basin
15"
6"
8"
SCALE: 1" = 1'-0"
NOTE: NUMBER AND LOCATION OF LADDER BARS IN CATCH BASIN TO BE AS DIRECTED BY THE ENGINEER.
ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS.
METHOD OF CONNECTING PIPE
(WHERE CONCRETE PIPE HAS TO BE CUT)
PLAN
STEP I
CUT CONCRETE PIPE LEAVING APPROXIMATELY 3" OF REINFORCING MESH EXPOSED.
STEP II
POSITION PIPE APPROXIMATELY 3" INTO OPENING OF WALL.
STEP III
POSITION CONCRETE CORE INSIDE OF PIPE AND SEAL WITH GROUT (1½" MIN. THICKNESS OF GROUT) REMOVE CORE WHEN SET AND RUB GROUT TO SEAL JOINTS.
NO SCALE
Inside Diam. of Pipe
Steel Thickness of Reinf. Pipe Min.
PLAN
(SEE SEPARATE STANDARDS FOR ALTERNATE) METHOD OF CONNECTING SKEWED PIPE
IF THIS SWIVEL SECTION SLAB IS USED TO REDUCE THE W AND W1 DIMENSIONS, HEREOF THE MIN. THICKNESS TO 9" AND USE REINF. STEEL. SEE DETAIL BELOW.
DETAIL FOR REINFORCED STEEL
9" Slab Min.
2" Clr.
5" Min.
2" All Around
PLAN
ELEVATION
SECTION A-B
SECTION B-B
SECTION C-C
SCALE: ½" = 1'
REINFORCING-ISOMETRIC VIEW
Reinf. Steel For Wall of Catch Basin
2/2, 8 x 6 WELDED WIRE FABRIC OR NO. 4 BARS AT 12" OC. BOTH WAYS - 3" CL. FOR ALL BOXES @ BOTTOM.
Reinf. Steel For Bottom Slab of Catch Basin
1/2 Reinf. Steel of Wall to Bottom Slab Reinf. Steel
12"Min.
NO SCALE
NOTE: REINFORCING SHOWN ABOVE IS REQUIRED FOR BOX SHAPED BASIN. REINFORCING FOR CIRCULAR PRECAST ALTERNATE SHALL BE ACCORDING TO STD. 1060.
TYPICAL ISOMETRIC VIEW
May Be Poured in Place or Precast
TOP SLAB
6" Diam. Conc. Pedestal
Vary.
BOTTOM SLAB
ALL JOINTS BETWEEN PRECAST RISERS OR BASE AND RISER WILL BE SEWED, KEYED JOINTS SHOWN ARE TYPICAL AND MAY BE
NOTE: DIMENSIONS FOR CATCH BASINS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES AND MAY BE VARIED IF CONDITIONS WARRANT AND IF APPROVED BY THE ENGINEER. W & W1 DIMENSIONS DO NOT HAVE TO BE EQUAL.
ALTERNATE BUILT-IN-PLACE, PRECAST BOX WITH PRECAST CIRCULAR LIDS WITH THE REQUIRED JOINTERS. REDUCERS, FITTINGS, OPENINGS, ETC. MAY ALSO BE USED IN COMBINATION.
NOTE: FOR RING & COVER DETAILS AND OTHER DETAILS NOT SHOWN, SEE STANDARD 1033F FOR BUILT-IN-PLACE CATCH BASIN.
DIMENSIONS FOR CATCH BASINS

PIPE SIZE	W OR W1 NOMINAL	W OR W1 MIN.
12"	3'-0"	6'-1"
15"	3'-0"	6'-7"
18"	3'-0"	9'-10"
24"	3'-0"	9'-10"
30"	3'-6"	6'-2"
36"	4'-0"	6'-10"
42"	5'-0"	7'-10"
48"	5'-0"	8'-0"
54"	6'-0"	8'-6"
60"	6'-0"	9'-2"



SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRAIN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm TO 180mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUSH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.9INCH (8mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMENTER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRACT SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.

MATERIALS:

NEW CONSTRUCTION
THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON DPL 87.

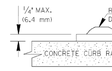
RETROFIT OF EXISTING RAMPS
SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

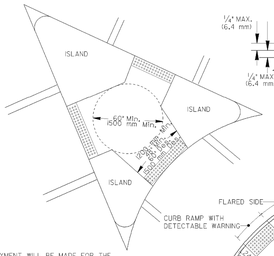
INSTALLATION:
BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

GENERAL NOTES:
RETROFIT SURFACED APPLIED MATERIALS ONLY:
1. CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
2. CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BELEVELED WITH A SLOPE NOT STEEPER THAN 2:1.

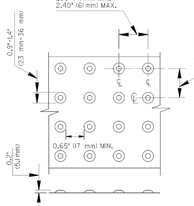


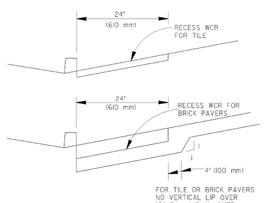


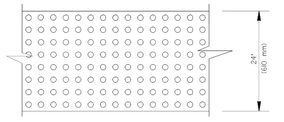
NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL, THE COST OF THE DETECTABLE WARNINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.

DETAIL FOR DETECTABLE WARNING AT CUT-THRU CONCRETE ISLAND







STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NO.	BY	DATE	DESCRIPTION
9.0	BT	6/2/25	ADD RETROFIT DETAIL
8.0	BT	4/2/25	ADD GA MUTCD DETAIL AND NOTES
7.0	BT	3/4/25	REVISE TRUNCATED DOMES
6.0	BT	2/4/25	REVISE LEVEL
5.0	BT	1/4/25	REVISE
4.0	BT	12/4/24	REVISE
3.0	BT	11/4/24	REVISE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL

DETECTABLE WARNING SURFACE, TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS

NO SCALE — MARCH 12, 2002

NUMBER A4

ENGINEER:

FORESITE group

Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:

AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974

CONTACT: STACY BROWN

PROJECT:

O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS

210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057, PERMIT #

SEAL:

GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

DRAINAGE DETAILS

SHEET NUMBER:

C-2.8

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001

UTILITY NOTES:

1) GEORGIA POWER WILL PROVIDE UNDERGROUND ELECTRICAL SERVICE FROM THE EXISTING SERVICE POLE TO THE TRANSFORMER PAD. CONTRACTOR MUST PROVIDE TWO (2) 6" PVC (SCH 80) CONDUITS AND A PULL STRING FROM THE EXISTING ELECTRICAL SERVICE POLE TO THE PROPOSED TRANSFORMER LOCATION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLING THREE (3) 4" PVC CONDUITS AND SECONDARY WIRING FROM THE TRANSFORMER PAD TO THE PROPOSED BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE POWER SERVICE INSTALLATION AND SHALL COORDINATE WITH THE POWER COMPANY FOR FINAL UNDERGROUND CONDUIT LOCATIONS.

2) CITY OF LAWRENCEVILLE WILL PERFORM THE GAS SERVICE CONNECTION, INSTALL THE CONDUIT, AND SET THE METER FOR THE BUILDING. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SERVICE FROM THE METER INTO THE PROPOSED BUILDING. CONTRACTOR MUST COORDINATE WITH THE ATLANTA GAS LIGHT COMPANY.

3) CITY OF LOGANVILLE WILL FURNISH THE DOMESTIC WATER METER AND ALL EQUIPMENT NEEDED TO TAP THE EXISTING WATER LINE. THE CONTRACTOR MUST PROVIDE AND INSTALL THE METER BOX, DOUBLE CHECK BACKFLOW PREVENTER AND ENCLOSURE, AND THE WATER SERVICE LINE FROM THE WATER METER TO THE BUILDING.

4) CITY OF LOGANVILLE WILL FURNISH THE IRRIGATION METER AND ALL EQUIPMENT NEEDED TO TAP THE EXISTING WATER LINE. THE CONTRACTOR MUST PROVIDE AND INSTALL THE METER BOX, DOUBLE CHECK BACKFLOW PREVENTER AND ENCLOSURE, AND THE IRRIGATION LINES TO THE AREAS SPECIFIED ON THIS SHEET AND ON SHEET I-1.

5) COORDINATE AS REQUIRED WITH CITY OF LOGANVILLE, GA INSPECTIONS DURING CONSTRUCTION FOR REQUIRED INSPECTIONS.

6) THIS SITE INDICATES POTABLE WATER SERVICE AND SANITARY SEWER LATERALS. THIS WORK TO BE INSTALLED BY A LICENSED PLUMBER IF STATE LAW REQUIRES. ALL WORK MUST BE INSPECTED CITY OF LOGANVILLE, GA CODES AND INSPECTION DEPARTMENT.

7) ALL ON-SITE PVC PIPE SHALL HAVE CLASS B BEDDING.

8) ALL CONDUIT, PIPE, AND CHASE PIPE SHALL BE WRAPPED WITH THE APPROPRIATE LOCATION WIRE AND TAPE.

9) NO PRESSURE REDUCING VALVES ARE TO BE INSTALLED ON FIRE LINES. ALL FIRE LINES ARE TO BE INSPECTED BY CITY OF LOGANVILLE, GA FIRE SERVICE PRIOR TO COVERING.

10) NOTIFY WATER AND SEWER INSPECTOR PRIOR TO START OF CONSTRUCTION.

11) THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS INCLUDING ALL RIM ELEVATIONS, INVERT ELEVATIONS, PIPE SIZES, AND PIPE MATERIAL FOR ALL PUBLIC MAINS TO THE ENGINEER AS SOON AS INSTALLATION IS COMPLETE.

12) OWNER SHALL BE RESPONSIBLE FOR ANY REPAIR OR REPLACEMENT OF ANY IMPROVEMENTS WITHIN THE SANITARY SEWER, WATER, DRAINAGE EASEMENT(S) DUE TO MAINTENANCE OF SEWER, WATER, STORM DRAIN OF CITY OF LOGANVILLE, GA.

13) CONTRACTOR SHALL INSTALL THE DOWNSTREAM SANITARY SEWER CONNECTION IN THE RIGHT-OF-WAY PRIOR TO THE INSTALLATION OF THE ON-SITE SERVICE LATERALS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE PLANS BY POT HOLING THE LINES. THE CONTRACTOR SHALL HAVE THE LINES SURVEYED, INCLUDING HORIZONTAL AND VERTICAL LOCATION, AND THE SURVEYED POINTS SENT TO THE PROJECT ENGINEER TO DETERMINE IF ANY UTILITY CONFLICTS WILL AFFECT THE CURRENT SANITARY SEWER DESIGN.

14) PVC WATER LINES LESS THAN 3" SHALL BE ASTM D 2241, SDR 21 WITH INTEGRALLY MOLDED BELL ENDS, ASTM D 2672. PVC WATER LINES 3" AND LARGER SHALL BE AWWA C900, RATED DR 18 (CLASS 150) WITH INTEGRALLY MOLDED BELL ENDS, ASTM D3139. DIP WATER LINES SHALL BE AWWA C151, THICKNESS CLASS 50.

15) PVC SANITARY SEWER LINES SHALL BE ASTM D 3034, RATED SDR 35 WITH INTEGRALLY MOLDED BELL ENDS, ASTM D 3034, TABLE 2, WITH FACTORY SUPPLIED ELASTOMERIC GASKETS AND LUBRICANT. DIP SANITARY SEWER LINES SHALL BE ASTM A746, CLASS 50 WITH AWWA C111, RUBBER GASKET JOINT DEVICES.

16) DEMOLISHED UTILITIES NOT DEPICTED ON THIS SHEET. REFER TO THE DEMOLITION PLAN.

LEGEND

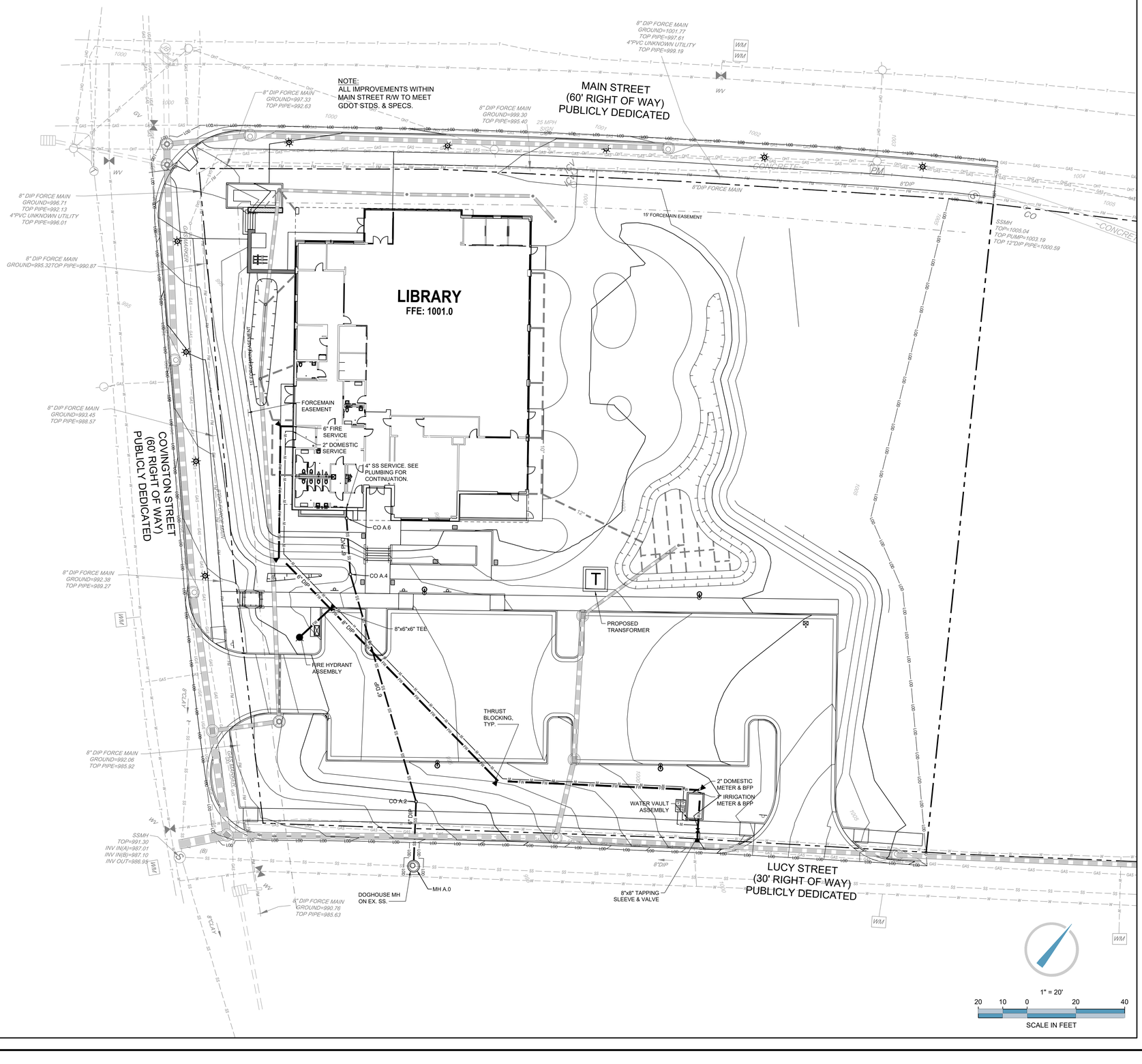
X X X	EXISTING FENCE LINE
	PROPERTY LINE
CATV CATV	EXISTING CABLE TELEVISION LINE
FOC FOC FOC	EXISTING FIBER OPTIC LINE
OHP OHP OHP	EXISTING OVERHEAD POWER LINE
UGE UGE	EXISTING UNDERGROUND POWER LINE
UGT UGT	EXISTING UNDERGROUND TELEPHONE LINE
GAS GAS GAS	EXISTING GAS LINE
SS SS SS	EXISTING SANITARY SEWER LINE
W W W	EXISTING WATER LINE
	EXISTING STORM LINE
CATV CATV	PROPOSED CABLE TELEVISION LINE
FOC FOC FOC	PROPOSED FIBER OPTIC LINE
OHP OHP OHP	PROPOSED OVERHEAD POWER LINE
UGE UGE	PROPOSED UNDERGROUND POWER LINE
UGT UGT	PROPOSED UNDERGROUND TELEPHONE LINE
GAS GAS GAS	PROPOSED GAS LINE
SS SS SS	PROPOSED SANITARY SEWER LINE
W W W	PROPOSED WATER LINE
FW FW FW	PROPOSED FIRE WATER LINE
	PROPOSED STORM LINE

FIRE WATER FLOW TEST

TEST 1: EXISTING HYDRANTS (2)

DATE OF FLOW TEST:	MARCH 28, 2024
STATIC PRESSURE:	60 PSI
RESIDUAL PRESSURE:	48 PSI
RECORDED FLOW @ LUCY ST. & COVINGTON ST.	1190 GPM WITH 48 PSI RESIDUAL PRESSURE.
RECORDED FLOW @ LUCY ST. & CHURCH ST.	1050 GPM WITH 48 PSI RESIDUAL PRESSURE.
SIZE OF WATER MAIN AT PROJECT CONNECTION POINT:	8" INCHES

CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION



ENGINEER:

FORESITE group

Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:

AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974

CONTACT: STACY BROWN

PROJECT:

O'KELLY MEMORIAL LIBRARY

CONSTRUCTION DOCUMENTS

210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #:LG050055, LG050057, PERMIT #

SEAL:

GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	1" = 20'
TITLE:	

UTILITIES PLAN

SHEET NUMBER:

C-3

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

P:\2184.001 MPS - O'KELLY MEMORIAL LIBRARY - LOGANVILLE GA\PDOC\3 SITE\FES PLAN.DWG
Plotted on: 10/1/2024 5:09:21 PM By:JOHN JAENICKE Sheet Scale = 1" = 1'

GENERAL NOTES:

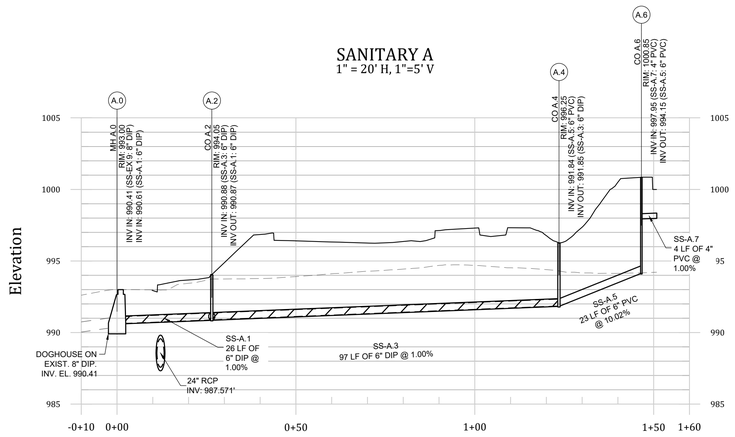
1) PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

2) EXISTING UTILITY DEPTHS ARE APPROXIMATED BASED ON 4 FT COVER FROM THE EXISTING GROUND SURFACE. PROPOSED UTILITY DEPTHS ARE BASED ON 4 FT OF COVER FROM THE PROPOSED GROUND SURFACE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY DEPTHS AT CROSSING AND CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE ENCOUNTERED.

3) CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS OF UTILITIES IN RIGHT OF WAY TO AVOID CONFLICTS. CONTACT ENGINEER IMMEDIATELY IF FIELD ELEVATIONS DIFFER FROM THE DESIGN DRAWINGS.

4) MAINTAIN MINIMUM 2' OF COVER OVER METAL AND PLASTIC PIPES DURING CONSTRUCTION ACTIVITIES.

SANITARY A
1" = 20' H, 1"=5' V



ENGINEER:

FORESITE group

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o | 770.368.1399
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CONTACT: STACY BROWN

PROJECT:

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CONSTRUCTION DOCUMENTS

210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057, PERMIT #

SEAL:

GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JAC
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

SANITARY SEWER PROFILES

SHEET NUMBER:

C-3.2

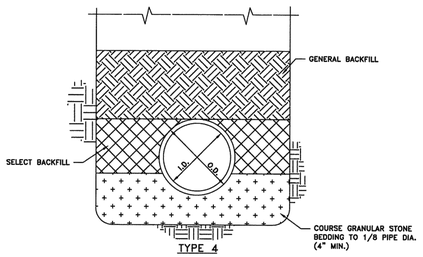
COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001

1" = 5'
5 2.5 0 5 10
VERTICAL: SCALE IN FEET

1" = 20'
20 10 0 20 40
HORIZONTAL: SCALE IN FEET

GEORGIA811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.



TYPE 4

PIPE BEDDED IN COURSE GRANULAR STONE TO DEPTH OF 1/8 PIPE DIA. (4" MIN.) WITH BACKFILL COMPACTED PER SPECIFICATION

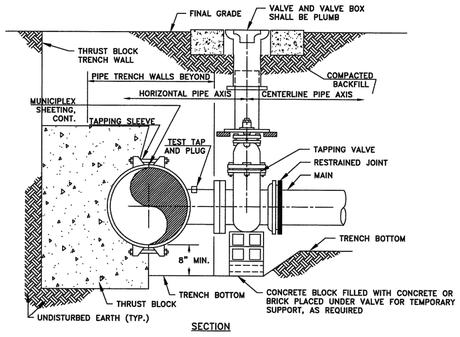
DUCTILE IRON PIPE BEDDING

City of Loganville where people matter

STANDARD DRAWING

Ductile Iron Pipe Bedding

DATE: JUNE 21, 2019 SHEET: 1114



SECTION

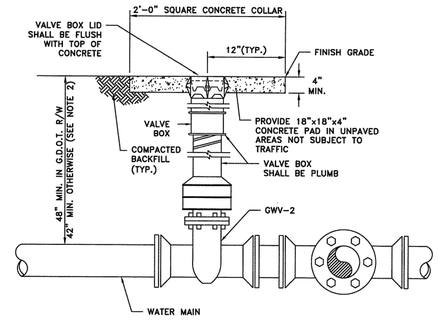
NOTES:
1. TEMPORARILY SUPPORT TAPPING SLEEVE AND VALVE PRIOR TO HYDROSTATIC TESTING AND UPON ACCEPTANCE OF TEST WHEN CONCRETE MAY BE INSTALLED AS SHOWN.
2. REFER TO TYPICAL HORIZONTAL THRUST BLOCK DRAWING FOR ADDITIONAL DETAILS.
3. REFER TO TYPICAL VALVE BOX INSTALLATION DRAWING FOR ADDITIONAL DETAILS.

City of Loganville where people matter

STANDARD DRAWING

Typical Tapping Sleeve and Valve Installation

DATE: JUNE 21, 2019 SHEET: 1120



TYPICAL GATE VALVE INSTALLATION

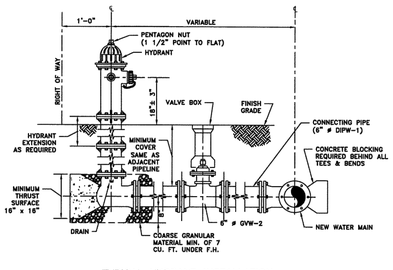
NOTES:
1. SLIP-TYPE VALVE BOXES ONLY (NO EXCEPTIONS).
2. WHERE DEPTH OF COVER IS MORE THAN 5 FEET, CONTRACTOR SHALL PROVIDE SUITABLE, PERMANENTLY INSTALLED VALVE STEM EXTENSION AND GUIDE AT NO EXTRA COST TO THE CITY OF LOGANVILLE.
3. USE 6" SDR 35 PVC PIPE FOR DEEP EXTENSIONS
4. CONTRACTOR MUST PROVIDE CLEARANCE BETWEEN VALVE AND VALVE BOX.
5. VALVE OPERATING NUT TO BE PLACED INSIDE AND ABOVE BOTTOM OF VALVE BOX

City of Loganville where people matter

STANDARD DRAWING

Typical Gate Valve and Valve Box Installation

DATE: JUNE 21, 2019 SHEET: 1108



TYPICAL HYDRANT INSTALLATION

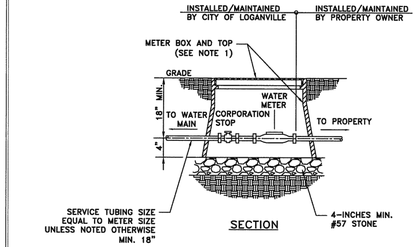
NOTES:
1. HYDRANT LUGS AND TIE RODS MAY BE USED IN LIEU OF CONCRETE REACTION BRACING AT CONTRACTOR'S OPTION.
2. PAINT HYDRANT IN ACCORDANCE W/AWWA C502 COLOR TO BE APPROVED BY OWNER.
3. EXACT LOCATION OF HYDRANTS TO BE DETERMINED IN FIELD BY ENGINEER & CITY.

City of Loganville where people matter

STANDARD DRAWING

Typical Hydrant Installation

DATE: JUNE 21, 2019 SHEET: 1117



WATER METER BOX

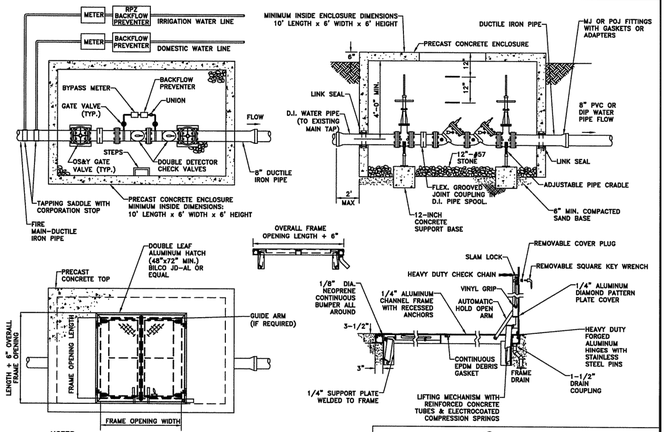
NOTE:
1. INSTALLATION OF METER BOX BY CITY OF LOGANVILLE WATER DEPARTMENT.
2. METER BOX TO BE LOCATED IN THE LAST BACK FOOT OF RIGHT OF WAY
3. CURB STOP MUST MATCH METER, 3/4" CURB STOP FOR 3/4" METER; 1" CURB STOP FOR 1" METER.
4. CENTER WATER METER IN METER BOX.
5. WATER METER BOX LID TO BE INSTALLED IS TO BE COMPATIBLE WITH AUTOMATIC METER READING (AMR) EQUIPMENT.

City of Loganville where people matter

STANDARD DRAWING

Water Meter Box

DATE: JUNE 21, 2019 SHEET: 1107



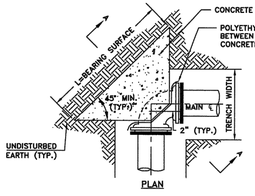
NOTES:
1. FOR BACKFLOW PREVENTION DEVICE, PROVIDE 8" INTERNALLY LOADED DOUBLE CHECK ASSEMBLY COMPLETE WITH OS&Y GATE VALVES AND BRONZE BODY BALL VALVE TEST COCKS FITTED WITH BRONZE PLUGS AND CONFORMING WITH AWWA C510 AND ASSE STD. 1048.
2. PROVIDE CONCRETE SUPPORTS FOR PIPE & ASSEMBLY TO ELIMINATE ANY STRAIN ON ALL PIPE JOINTS PER MFG. RECOMMENDATIONS.
3. THE CITY OF LOGANVILLE INSTALLS BACKFLOW PREVENTION DEVICES FOR RESIDENTIAL PROPERTIES ONLY.

City of Loganville where people matter

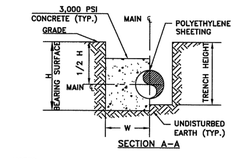
STANDARD DRAWING

Fire Main and Water Vault Details

DATE: JUNE 21, 2019 SHEET: 1116



PLAN



SECTION A-A

BEND	SIZE	DIMENSION (FT.) H	L	W	CONC. VOL. (CY)	THRUST (LBS.)
11-1/4	4"	1.00	1.00	1.67	0.05	887
	6"	1.00	1.00	1.67	0.05	1,577
	8"	1.00	1.50	1.67	0.07	2,814
	10"	1.25	1.75	1.67	0.11	4,309
	12"	1.87	2.00	1.67	0.17	6,150
	16"	2.00	2.75	1.67	0.28	10,761
22-1/2	4"	1.00	1.00	1.67	0.05	1,765
	6"	1.33	1.50	1.67	0.10	3,647
	8"	1.67	2.00	1.67	0.15	6,275
	10"	2.00	2.50	1.67	0.22	9,439
	12"	2.50	2.75	1.67	0.37	13,349
	16"	3.00	4.00	1.67	0.59	23,195
45°	4"	1.00	1.75	1.67	0.07	3,462
	6"	1.67	2.33	1.67	0.16	7,155
	8"	2.50	2.50	1.67	0.26	12,308
	10"	2.67	3.50	1.67	0.37	18,516
	12"	3.33	4.00	1.67	0.64	26,185
	16"	4.00	5.75	1.67	1.29	45,499
90°	4"	1.67	2.00	1.67	0.14	6,398
	6"	2.25	3.00	1.67	0.27	13,220
	8"	3.25	3.50	1.67	0.46	22,743
	10"	3.33	5.25	1.67	0.81	34,213
	12"	3.87	6.67	1.67	1.51	48,383
	16"	4.50	9.50	1.67	3.76	84,070
TEE & PLUG	4"	1.33	1.75	1.67	0.12	4,524
	6"	2.00	2.50	1.67	0.24	9,348
	8"	2.33	3.50	1.67	0.38	16,082
	10"	2.67	4.67	1.67	0.54	24,192
	12"	3.00	5.75	1.67	0.86	34,212
	16"	4.00	7.50	1.67	1.85	59,447

NOTE: SIZES IN TABLE DENOTE NOMINAL PIPE SIZE IN INCHES

NOTES:
1. SOIL PREPARATION SHALL BE APPROVED BY CITY OF LOGANVILLE WATER DEPARTMENT PRIOR TO POURING CONCRETE.
2. REFER TO TYPICAL HORIZONTAL THRUST RESTRAINT DRAWING 1125 FOR ADDITIONAL DETAILS.

DESIGN CRITERIA:
1. THRUST RESTRAINT DIMENSIONS ARE BASED ON PRESSURE CLASS DUCTILE IRON PIPE WITH BITUMASTIC EXTERIOR COATING, MINIMUM SOIL BEARING PRESSURE OF 2,000 PSF, A COHESIVE GRANULAR SOIL, TEST PRESSURE OF 250 PSI, WITH A SAFETY FACTOR OF 1.0.

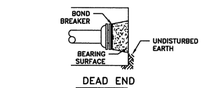
City of Loganville where people matter

STANDARD DRAWING

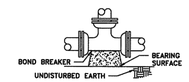
Typical Horizontal Thrust Block

DATE: JUNE 21, 2019 SHEET: 1124

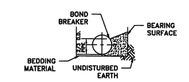
22 1/2°, 45° AND 90° BENDS



DEAD END



TEE



TYPICAL CROSS SECTION

CONCRETE THRUST RESTRAINT

MINIMUM BEARING SURFACE AREA (SQ. FT.)				
PIPE SIZE	BENDS 22.5°	45°	90°	TEE OR DEAD END
4"	1.00	1.00	2.00	1.50
6"	1.25	2.25	4.75	3.00
8"	2.00	4.00	8.20	5.25
12"	4.25	8.25	18.75	11.00
16"	6.50	12.50	23.00	16.50
20"	10.00	19.50	35.50	25.00

NOTES:
1. BEARING SURFACES IN CHART ARE MINIMUM REQUIRED AREAS BASED ON THE FOLLOWING:
   A. SOIL BEARING CAPACITY = 3000 PSF
   B. INTERNAL PIPE PRESURE = 150 PSI + WATERHAMMER OF 120 PSI FOR 4"- 8" SIZE, 110 PSI FOR 12" SIZE, AND 70 PSI FOR 16" AND 20" SIZES.
2. ACTUAL SOIL AND INSTALLATION CONDITIONS VARY AND MAY REQUIRE ADDITIONAL ANCHORAGE. IT IS THE CONTRACTORS RESPONSIBILITY TO RECOGNIZE SUCH VARIANCES AND ADDITIONAL REQUIREMENTS AND TO PROVIDE APPROPRIATE ADDITIONAL ANCHORAGE.
3. PROVIDE CONCRETE REACTION OR THRUST BACKING OF A MIX NOT LEANER THAN 1 CEMENT, 2 - 1/2 SAND, 5 STONE, HAVING COMPRESSIVE STRENGTH OF NOT LESS THAN 2,000 PSI. PLACE BACKING BETWEEN SOLID GROUND AND THE FITTING TO BE ANCHORED. LOCATE THE BACKING SO THAT THE PIPE AND THE FITTING JOINT WILL BE ACCESSIBLE FOR REPAIRS. MECHANICAL JOINT RETAINER GLANDS OF ADEQUATE STRENGTH TO PREVENT MOVEMENT OR OTHER SUITABLE MEANS MAY BE USED INSTEAD OF CONCRETE BACKING.

City of Loganville where people matter

STANDARD DRAWING

Concrete Thrust Restraint

DATE: JUNE 21, 2019 SHEET: 1123

ENGINEER:

FORESITE group

Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:

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CONTACT: STACY BROWN

PROJECT:

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PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

UTILITY DETAILS

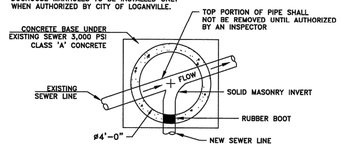
SHEET NUMBER:

C-3.3

COMMENTS: NOT RELEASED FOR CONSTRUCTION

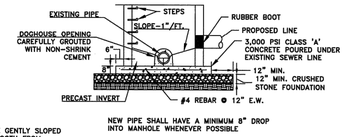
JOB/FILE NUMBER: 2184.001

NOTE:
DOGHOUSE MANHOLES TO BE INSTALLED ONLY WHEN AUTHORIZED BY CITY OF LOGANVILLE.



PROVIDE PRECAST MANHOLE RISER COMPLETE WITH UP-SIDE DOWN U-SHAPED OPENING TO SUIT EXISTING LINES.

CORED AND BOOTED OPENING TO SUIT PROPOSED PIPELINES.



NEW PIPE SHALL HAVE A MINIMUM 8" DROP INTO MANHOLE WHENEVER POSSIBLE

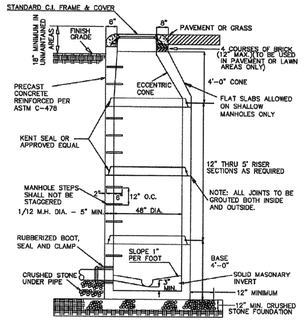
NOTE:
TABLES ARE TO BE GENTLY SLOPED AND TROWELED SMOOTH FROM MANHOLE WALL TO INVERT WALL HEIGHT AND CONSTRUCTED OF SOLID MASONRY.

City of Loganville where people matter

STANDARD DRAWING

Manhole Placed on Existing Line (Doghouse)

DATE: JUNE 21, 2019 SHEET: 1003



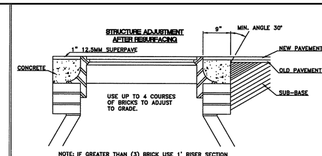
NOTES:
1. TABLES ARE TO BE GENTLY SLOPED AND TROWELED SMOOTH FROM M.H. WALL TO INVERT WALL AND CONSTRUCTED OF SOLID MASONARY.
2. BASES LARGER THAN 48" (INCH) MUST USE TRANSITION SLAB AND 48" (INCH) RISER SECTIONS.
3. CONES WITH CAST IN PLACE FRAMES ARE REQUIRED ON OUTFALL SEWERS IN UNMAINTAINED AREAS.
4. BOLT DOWN RING & COVER REQUIRED OUTSIDE OF PAVEMENT.
5. ALL MANHOLES RECEIVING A FORCE MAIN DISCHARGE SHALL BE POLYMER CONCRETE MANHOLES AS MANUFACTURED BY US COMPOSITE PIPE, INC. OR CITY OF LOGANVILLE APPROVED EQUAL.

City of Loganville where people matter

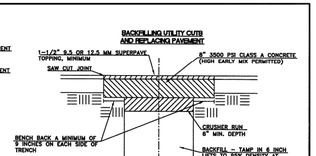
STANDARD DRAWING

Sanitary Sewer Manhole

DATE: JUNE 21, 2019 SHEET: 1001



NOTES:
1. STRUCTURES WILL NOT BE ADJUSTED FOR A PERIOD OF AT LEAST 24 HOURS AFTER RESURFACING IS COMPLETED IN THAT AREA.
2. ASPHALT WILL BE SAW CUT SO AS TO MAKE A SMOOTH, EVEN EDGE.
3. STRUCTURE COVER WILL BE ADJUSTED TO FIT FLUSH WITH STREET SURFACE.
4. CONCRETE: MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI, UNLESS NOTED OTHERWISE.
5. CONCRETE WILL BE USED TO BACKFILL THE ENTIRE WORKING AREA.
6. PERFORM CONCRETE FINISHING WITH A TROWEL OR FLOAT.
7. SANITARY SEWER MANHOLES MUST BE VENTED IMMEDIATELY AFTER BEING PAVED OVER, THEREFORE WHEN MORE THAN ONE LIFT OF ASPHALT IS TO BE PLACED THE CONTRACTOR MUST ADJUST STRUCTURE PRIOR TO PAVING.



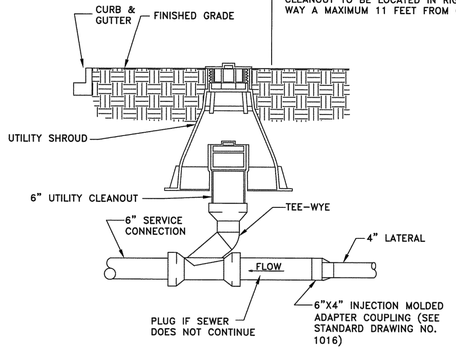
NOTES:
1. ALL LATERAL STREET CUTS MUST BE COVERED WITH STEEL PLATES OF SUFFICIENT THICKNESS TO SPAN THE CUT WITHOUT NOTICEABLE DEFLECTION. PLATES TO REMAIN IN PLACE UNTIL THE CONCRETE BASE HAS GAINED SUFFICIENT STRENGTH TO WITHSTAND TRAFFIC LOADS (24 HOUR MINIMUM).
2. ON LONGITUDINAL CUTS EXCEEDING 50 FEET IN LENGTH AND AT THE DIRECTION OF THE CITY, CONCRETE IN THE TRENCH WILL BE BROUGHT FLUSH WITH THE EXISTING PAVEMENT AND THE ENTIRE WIDTH OF THE ROADWAY RESURFACED WITH A MINIMUM OF 1-1/2" OF 12.5MM SUPERPAVE ASPHALT SURFACE COURSE.
3. SEE TABLE 6B UNDER SECTION 6.10 OF THE CITY OF LOGANVILLE DEVELOPMENT REGULATIONS FOR DETERMINATION OF THE PAVEMENT SURFACE TYPE.

City of Loganville where people matter

STANDARD DRAWING

Utility Street Cuts and Structure Adjustment

DATE: JUNE 21, 2019 SHEET: 502



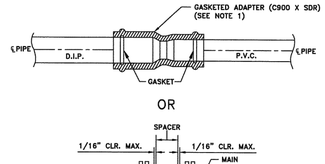
NOTE: PLEASE REFER TO STANDARD DRAWING NO. 1024 FOR UTILITY SHROUD SPECIFICATIONS

City of Loganville where people matter

STANDARD DRAWING

Sewer Service Cleanout

DATE: JUNE 21, 2019 SHEET: 1014



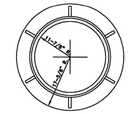
TRANSITION JOINT NOTES:
ONE OF THE FOLLOWING TRANSITION METHODS SHALL BE UTILIZED WHEN TRANSITIONING FROM DUCTILE IRON TO PVC PIPE:
1. GASKETED ADAPTER SHALL BE TYPE C900 X SDR (Harco OR EQUAL), AND MEET THE FOLLOWING STANDARDS:
   MATERIAL: ASTM 1784
   JOINTS: ASTM D3212
   GASKETS: ASTM F477
   FITTINGS: ASTM D3034 AND F1336
2. SOLID SLEEVE ADAPTER SHALL BE STEEL AND PROPERLY COATED BEFORE BACKFILL.

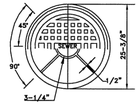
City of Loganville where people matter

STANDARD DRAWING

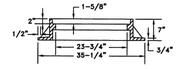
Transition Collar

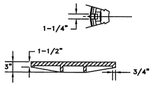
DATE: JUNE 21, 2019 SHEET: 1013





NOTE:
1. EAST JORDAN IRON WORKS V-1357 OR INTERCHANGEABLE.



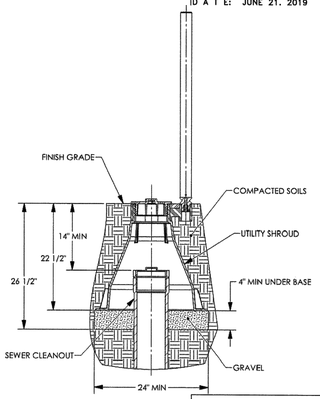


City of Loganville where people matter

STANDARD DRAWING

Traffic Frame and Cover

DATE: JUNE 21, 2019 SHEET: 1008

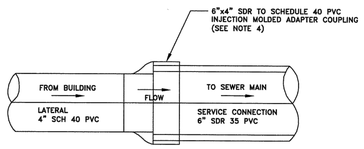


City of Loganville where people matter

STANDARD DRAWING

Utility Shroud For Sewer Cleanout Assembly

DATE: JUNE 21, 2019 SHEET: 1024



NOTES:
1. CONCRETE GROUT WILL NOT BE PERMITTED.
2. BELL MUST BE REMOVED FROM 6" SERVICE CONNECTION.
3. DAMAGED END OF 6" SERVICE CONNECTION PIPE SHALL BE CUT STRAIGHT.
4. EACH INSTALLATION MUST UTILIZE INJECTION MOLDED 6"x4" SDR TO SCH 40 ADAPTER COUPLING (Multi Fittings OR EQUAL).

City of Loganville where people matter

STANDARD DRAWING

4" Lateral to 6" Service Connection Installation

DATE: JUNE 21, 2019 SHEET: 1016

ENGINEER:

FORESITE group

Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:

AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974

CONTACT: STACY BROWN

PROJECT:

O'KELLY MEMORIAL LIBRARY

CONSTRUCTION DOCUMENTS

210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057, PERMIT #

SEAL:

GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN

TITLE:

UTILITY DETAILS

SHEET NUMBER:

C-3.4

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
2184.001

EROSION, SEDIMENTATION ,AND POLLUTION CONTROL PLANS (ESPCP) FOR:

O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS

IN ACCORDANCE WITH GEORGIA NPDES PERMIT GAR #100001
210 MAIN STREET
LOGANVILLE, GA. 30052

ESPCP SHEET INDEX

C-4	EROSION, SEDIMENTATION, & POLLUTION CONTROL COVER
C-4.1	EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES
C-4.2	EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES
C-4.21	EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES
C-4.3	INITIAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
C-4.4	INTERMEDIATE EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
C-4.5	FINAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN
C-4.6	EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS
C-4.7	EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS
C-4.8	EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS

SITE DISTURBED AREA = 1.97 AC

SITE DETAILS:

1) EXISTING SITE IS GRASSED WITH INTERMITTENT TREES. PROJECT INCLUDES LIBRARY WITH ASSOCIATED PARKING AND INFRASTRUCTURE. STORMWATER DETENTION TO BE PROVIDED OFFSITE IN REGIONAL DETENTION FACILITY.
2) TOTAL SITE AREA = 80656 ACRES; DISTURBED AREA = 1.97 ACRES
3) CURVE NUMBER, EXISTING CONDITION = 64
4) CURVE NUMBER, DEVELOPED CONDITION = 83
5) THERE ARE NO KNOWN STATE WATERS PRESENT ON SITE. THERE ARE NO KNOWN STATE WATERS WITHIN 200 FEET OF THE SITE. APPROXIMATE LOCATION OF OFF-SITE WATERS AND RECEIVING WATER ARE SHOWN ON THE LOCATION MAP (THIS SHEET). NO BUFFER VARIANCES ARE ANTICIPATED OR REQUESTED.
6) THERE ARE NOT KNOWN WETLANDS ON THE SITE. ALL WETLANDS DELINEATED ARE SHOWN IN THIS PLAN.
7) NO PORTION OF THE SUBJECT PROPERTY LIES WITHIN A 100 YEAR FLOOD HAZARD AREA PER FIRM MAP NUMBER 13297C0085E DATED 2016-12-08

A COPY OF THIS APPROVED PLAN MUST BE RETAINED ON-SITE OR AT A READILY ACCESSIBLE LOCATION

THIS PLAN SHALL BE AMENDED WHEN A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE HAS A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT (INCLUDING SpB, Sd2, Sd3, Sd4, Rt, Ss, Rd, AND OTHER MEASURES IN CONCENTRATED FLOW AREAS). SUCH AMENDMENTS MUST BE CERTIFIED BY THE ENGINEER.

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

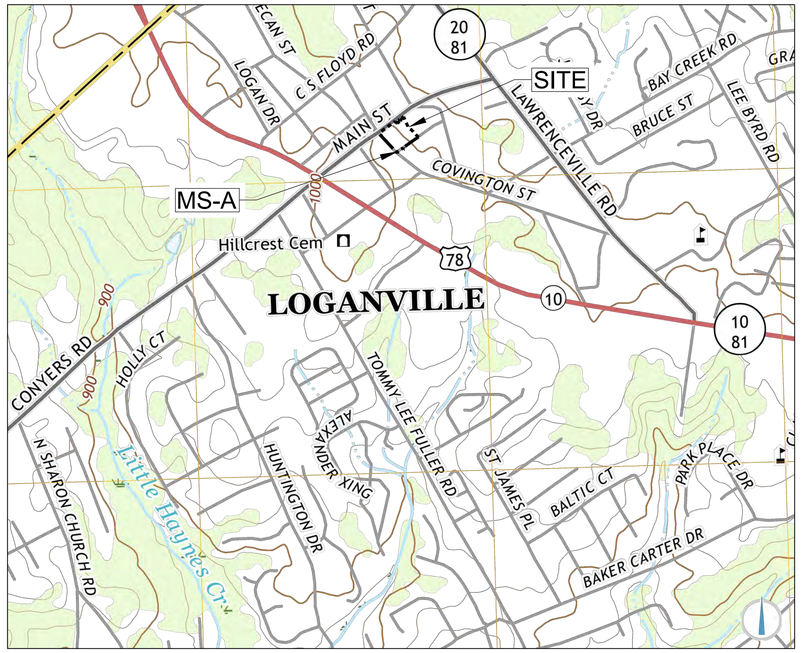
CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY UPON START OF CONSTRUCTION IN ORDER FOR ENGINEER TO SCHEDULE THE INITIAL 7 DAY EROSION CONTROL INSPECTION. THE CONTRACTOR SHALL VERIFY THAT ALL EXISTING INITIAL BMP'S ARE INSTALLED PROPERLY. ALL COMPENSATION FOR DESIGN ENGINEER'S REINSPECTION TO VERIFY THAT THE INITIAL BMP'S ARE PROPERLY INSTALLED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PREPARED BY:

FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

24 HR CONTACT:
STACY BROWN
706-342-4974

ISSUED:
JULY 12, 2024
2184.001



VICINITY MAP, SCALE: 1" = 800'

SAMPLING LOCATION SCHEDULE

MONITORING SITE	TYPE OF SITE (SEE KEY)	TOTAL BASIN AREA		ON-SITE BASIN AREA	RECOMMENDED FOR MONITORING	RECEIVING WATER NAME	IMPAIRED? ***	NTU LIMIT FROM PERMIT **	COLD WATER?
		ACRES	SQ. MI.	ACRES					
MS-A	OF	204.6	0.32	1.97	YES	TRIBUTARY TO LITTLE HAYNES CREEK	NO	75	NO

** O.C.G.A. Sec. 12-7-6 STATES "A discharge of STORMWATER runoff from disturbed areas where best management practices have not been properly designed, installed, and maintained shall constitute a separate violation of any land-disturbing permit issued by a local issuing authority or of any state general permit issued by the division pursuant to subsection (f) of Code Section 12-5-30 for each day on which such discharge results in the turbidity of receiving waters being increased by more than 25 nephelometric turbidity units for waters supporting warm water fisheries or by more than ten nephelometric turbidity units for waters classified as trout waters.

*** Impaired indicates the site discharges into, or is within one mile upstream of and within the same watershed, as a portion of an impaired stream segment for the criteria voildated "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macrovertebrate Community), within Category 4a, 4b, or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff) on the latest published impaired streams list maintained by the Georgia Environmental Protection Division.

KEY:

OF: OUTFALL

ANTICIPATED ACTIVITY SCHEDULE
BEGIN CONSTRUCTION: 11/01/2024
END CONSTRUCTION: 11/01/2025

	ACTIVITY	2.0 MTH	4.0 MTH	6.0 MTH	8.0 MTH	10.0 MTH	12.0 MTH
1	INSTALL SEDIMENT CONTROLS						
2	DEMOLITION						
3	CLEARING, GRUBBING, & GRADING						
4	GRASS TEMP.						
5	BUILDING CONSTRUCTION						
6	MAINTAIN EROSION CONTROL						
7	PAVING						
8	FINAL LANDSCAPING						
9	DISPOSITION OF TEMP. SEDIMENT CONTROLS						

DESIGN PROFESSIONAL CERTIFICATION

I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION" AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF THE BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

SIGNATURE OF ENGINEER — DATE
0000077160 — 2027-8-28
CERTIFICATION # — EXPIRATION

OWNER CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

SIGNATURE OF OWNER — DATE

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

ENGINEER:
FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:
AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974
CONTACT: STACY BROWN

PROJECT:
O'KELLY MEMORIAL LIBRARY
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210 MAIN STREET
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LL 154, 186; DISTRICT 4
PARCEL #:LG050055, LG050057, PERMIT #

SEAL:
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REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

EROSION, SEDIMENTATION, & POLLUTION CONTROL COVER

SHEET NUMBER: C-4

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001

GENERAL EROSION CONTROL NOTES:

1) THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.

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

3) ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

4) A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.

5) THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND BEST MANAGEMENT PRACTICES, WHETHER TEMPORARY OR PERMANENT.

6) EROSION CONTROL DEVICES THAT ARE INSTALLED AS DIRECTED BY AN INSPECTOR BUT NOT SHOWN ON THE APPROVED PLAN ARE THE RESPONSIBILITY OF THE CONTRACTOR.

7) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING TIMING, DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES. 24 HR CONTACT: **STACY BROWN 706-342-4974.**

8) ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING AS SLOPES ARE CONSTRUCTED.

9) THE CONTRACTOR SHALL STOCKPILE AND REUSE TOPSOIL TO DRESS FINAL GRADES. CONFIRM THE STOCKPILE LOCATION WITH THE OWNER PRIOR TO COMMENCEMENT OF CONSTRUCTION. SEE GRADING AND DRAINAGE PLANS FOR NOTES REGARDING EXCESS TOPSOIL AND OTHER UNCLASSIFIED FILL/EXCAVATION.

10) THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANING OUT OF ANY ACCUMULATED SILT IN THE STORM DRAINAGE PIPES AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.

11) CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES UNTIL THE ENTIRE PROJECT HAS UNDERGONE FINAL STABILIZATION AND ALL CONSTRUCTION HAS BEEN COMPLETED.

12) RED LINE COMMENTS ON WORKING SETS OF PLANS SHOULD BE MAINTAINED ON SITE FOR ANY CHANGES MADE TO EROSION CONTROL PLAN. COMMENTS SHOULD INCLUDE DATE AND JUSTIFICATION FOR CHANGES.

13) OFF SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. DUST CONTROL MEASURES MAY CONSIST OF APPLICATION OF MULCHES, VEGETATIVE COVER, SPRAY-ON ADHESIVES, CALCIUM CHLORIDE; THE USE OF IRRIGATION; AND/OR THE CONSTRUCTION OF BARRIERS TO PROTECT FROM WIND OR SCREEN AIRBORNE PARTICULATES.

14) IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT PAD DOES NOT SUFFICIENTLY REMOVE MUD FROM VEHICLE TIRES, THE TIRES SHOULD BE WASHED BEFORE LEAVING THE PROJECT SITE. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON THE CONSTRUCTION PAD OR OTHER AREA STABILIZED WITH CRUSHED STONE. ALL RUNOFF FROM WASHING AREAS BUST BE DIRECTED TO A SEDIMENT TRAP OR SEDIMENT BASIN INCLUDED IN THESE PLANS.

STREAMS AND WETLANDS

1) NO CONSTRUCTION ACTIVITY SHALL BE CONDUCTED WITHIN THE BANKS OF STREAMS OR WITHIN A WETLAND AREA EXCEPT UPON RECEIPT OF AUTHORIZATION FOR SUCH ACTIVITY FROM THE U.S. ARMY CORPS OF ENGINEERS.

2) EXCEPT AS PROVIDED IN NO. 4 BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED; PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS "TROUT STREAMS" WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A RULE PROVIDING FOR A GENERAL VARIANCE PROMULGATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH TO EPD AND THE LOCAL ISSUING AUTHORITY OF THE LOCATION AND EXTENT OF THE PIPING AND PRESCRIBED METHODOLOGY FOR MINIMIZING THE IMPACT OF SUCH PIPING SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO ACTIVITIES LISTED IN 2.a THROUGH 2.h PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS IMPLEMENTED.

4) EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO NO. 2 AND 3, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. DURING COVERAGE UNDER THE NPDES PERMIT, A BUFFER CANNOT BE THINNED OR TRIMMED OF VEGETATION AND A PROTECTIVE VEGETATIVE COVER MUST REMAIN TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY MUST BE LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

POST-CONSTRUCTION STORMWATER BMP'S (PART IV.D.3.b)

1) ONSITE BIORETENTION WILL REDUCE STORMWATER POLLUTION VIA INFILTRATION. DETENTION WILL BE PROVIDED VIA A REGIONAL DETENTION POND.

2) STORMWATER WILL OUTFALL TO THE MUNICIPAL STORM SEWER AND TO A REGIONAL DETENTION POND.

GEORGIA811 Utilities Protection Center, Inc.

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

BMP MAINTENANCE (PART IV.D.5)

1) THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION UPON DISCOVERY OF ANY DEFICIENCIES IN EROSION CONTROL BEST MANAGEMENT PRACTICES, WHETHER OR NOT IT IS INCLUDED IN AN INSPECTION REPORT.

2) ALL STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES MUST BE CLEANED OUT OR RECONSTRUCTED WHEN SEDIMENT VOLUMES EXCEED 1/3 OF THE STORAGE CAPACITY OF THE MEASURE. .

3) ALL SILT FENCE STORAGE SHALL BE CLEANED OUT OR RECONSTRUCTED WHEN SEDIMENT VOLUMES EXCEED 1/2 OF THE HEIGHT OF THE SILT FENCE.

4) SEDIMENT CLEANED OUT FROM STORAGE DEVICES AND SILT FENCE SHOULD BE SPREAD IN UPLAND AREAS, MIXED WITH TOPSOIL, AND MULCHED OR SEEDED IMMEDIATELY. DO NOT SPOIL IN AREAS WHERE STRUCTURAL FILLS ARE REQUIRED (SUCH AS PAVEMENT, BUILDING FOOTPRINTS, ETC.)

5) WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

6) WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

7) REAPPLICATION OF VEGETATIVE BMPS MAY BE REQUIRED TO ACHIEVE FULL COVERAGE. REFER TO VEGETATIVE BMP NOTES AND DETAILS FOR INSTALLATION AND MAINTENANCE OF VEGETATIVE BMP'S.

INSPECTIONS (PART IV.D.4)

1) IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE SURE THAT INSPECTIONS ARE BEING PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS PERMIT NOTED BELOW.

2) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

3) MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

4) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE ; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D .4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

5) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

6) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

SAMPLING REQUIREMENTS (PART IV.D.6):

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

SAMPLE TYPE:

1) ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-8-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

A) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
B) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
C) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
D) MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
E) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E OF THE NPDES PERMIT.

SAMPLING POINTS:

1) FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES.

A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
F) THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
G) PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, 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 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 AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).
H) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS 111.D.3. OR 111.D.4 ., WHICHEVER IS APPLICABLE.

SAMPLING FREQUENCY:

1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

3) SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
B) IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
C) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
D) WHERE SAMPLING PURSUANT TO (a), (b) OR (c) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (a), (b) OR (c) ABOVE; AND
E) EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (b) . THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (b) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (c) ABOVE.

** NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

REPORTING (PART V.E)

1) THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART 11.C. OF THE PERMIT BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THE PERMIT. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE PERMIT.

2) ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

A) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
B) THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
C) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
D) THE DATE(S) ANALYSES WERE PERFORMED;
E) THE TIME(S) ANALYSES WERE INITIATED;
F) THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
G) REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
H) THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS;
I) RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU," AND
J) CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3) ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

RETENTION OF RECORDS (PART IV.F):

1) THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

A) A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
B) A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
C) THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
D) A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
E) A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
F) A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
G) DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(1)(C) OF THIS PERMIT.

2) COPIES OF ALL NOI'S, NOT'S, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

RISK REDUCTION/POLLUTION CONTROL (PART IV.D.3.c)

GENERAL

1) WASTE MATERIALS SHALL NOT BE DISCHARGED TO THE WATERS OF THE STATE, EXCEPT AS AU T HORIZED BY A SECTION 404 PERMIT.
2) AN EFFORT SHALL BE MADE TO MAINTAIN THE MINIMUM AMOUNT OF MATERIAL NEEDED TO COMPLETE THE JOB ONSITE.
3) ALL

CONSTRUCTION SEQUENCE (PART IV.D.1)

THE FOLLOWING SEQUENCE OF ACTIVITIES ARE TO BE IMPLEMENTED IN THE ORDER SHOWN, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, REVISIONS, RECOMMENDATIONS FROM THE PRE-CONSTRUCTION CONFERENCE, OR OTHER REASON JUSTIFIES A DEVIATION FROM THIS SCHEDULE. IF A DEVIATION IS UNDERTAKEN OR ANTICIPATED, THE LOCAL JURISDICTION SHALL BE NOTIFIED AND THE CHANGE OF SEQUENCE RECORDED IN THE DAILY LOG.

PHASE-I: CLEARING, GRADING, DEMOLITION, AND INSTALLATION OF INITIAL BMP'S

1) OBTAIN AND POST A COPY OF THE LAND DISTURBANCE PERMIT ON THE SITE. A COPY OF THE FILED NOTICE OF INTENT (NOI) AND DELIVERY RETURN RECEIPT SHOULD BE STORED WITH THE APPROVED CONSTRUCTION PLANS ON-SITE, ALONG WITH SETTING UP STORAGE FOR THE DAILY SAMPLING LOG AND FILING FOR REPORTS REQUIRED BY THE NPDES PERMIT. LAND DISTURBANCE CANNOT COMMENCE LESS THAN 14 DAYS FROM THE DATE ON THE DELIVERY RECEIPT.

2) SET UP A PRE-CONSTRUCTION CONFERENCE ON-SITE WITH THE OWNER, CONTRACTOR, DESIGN TEAM MEMBERS AS NEEDED, AND LOCAL ISSUING AUTHORITY TO REVIEW CONSTRUCTION REQUIREMENTS.

3) COORDINATE THE DISCONNECTION AND REMOVAL OF ANY EXISTING UTILITIES ON-SITE TO BE REMOVED OR ABANDONED. FIELD CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BY POTHOLING.

4) STAKE LIMITS OF DISTURBED AREA AND TREE PROTECTION AREAS.

5) INSTALL TREE SAVE FENCING TO DELINEATE BUFFER AND TREE SAVE AREAS AS SHOWN ON THE PLAN.

6) CONSTRUCT THE CONSTRUCTION ENTRANCE(S) AT THE PROPOSED LOCATION(S) SHOWN ON THE PLANS. (TEMPORARY STREET ACCESS PERMITS MAY BE REQUIRED.)

7) INSTALL ALL PERIMETER SILT BARRIERS AS SHOWN ON THE PHASE-I PLAN SHEETS.

8) CLEAR AND GRUB ROUTES TO THE MINIMUM EXTENT NEEDED TO CONSTRUCT STRUCTURAL BEST MANAGEMENT PRACTICES IN CONCENTRATED FLOW AREAS SHOWN ON THE INITIAL PHASE PLAN. THIS INCLUDES EXCAVATED SEDIMENT TRAPS, SEDIMENT BASINS, ROCK DAMS,SILT GATES, AND DIVERSIONS.

9) INSTALL STRUCTURAL BMP'S IN CONCENTRATED FLOW AREAS WITH MINIMAL DISTURBANCE TO ADJACENT AREAS.

10) INSTALL SKIMMER DEVICES ON STRUCTURAL BMP'S AS SHOWN ON THE INITIAL PHASE PLANS.

11) COMMENCE CLEARING, GRUBBING, AND DEMOLITION OPERATIONS. CONSTRUCT ALL REMAINING BMP'S SHOWN ON THE PHASE-I PLANS CONCURRENT WITH CLEARING AND GRUBBING OPERATIONS.

12) COMMENCE DEMOLITION ACTIVITY CONCURRENT WITH CLEARING AND GRUBBING ACTIVITY. CONSTRUCTION DEBRIS SHOULD BE SORTED FROM VEGETATIVE DEBRIS FOR PROPER DISPOSAL.

13) APPLY TEMPORARY VEGETATION (Ds1/Ds2) IN ACCORDANCE WITH PLANS AND NOTES FOR CLEARED AREAS.

PHASE-II: GRADING AND UTILITY CONSTRUCTION

1) CONSTRUCT ALL STRUCTURAL BMP'S SHOWN ON THE PHASE-II PLAN WHERE COMPLETION OF GRADING AND UTILITY CONSTRUCTION IS NOT NECESSARY FOR INSTALLATION.

2) COMMENCE ROUGH GRADING ON-SITE. INSTALL STRUCTURAL AND VEGETATIVE BMP'S AS SHOWN ON THE PHASE-II PLAN AS EACH AREA IS COMPLETED. FOR LARGE FILLS AND MAJOR EARTH MOVING ACTIVITIES THAT CHANGE CONVEYANCE OF STORMWATER RUNOFF, THE INSTALLATION OF DIVERSIONS, DOWN DRAINS, AND STRUCTURES ON THE PLANS SHOULD BE CONSTRUCTED TO MAINTAIN THE PROTECTION OF SLOPES AND ROUTING OF WATER TO THE PHASE-II STRUCTURAL STORAGE LOCATIONS. THIS MAY INCLUDE PHASED INSTALLATION OF DOWN DRAINS WITH DIVERSIONS ALONG THE FACE OF LARGE FILL AREAS.

3) INSTALL PERMANENT STORMWATER MANAGEMENT AREAS AS SHOWN. WHERE PERMANENT STORMWATER MANAGEMENT AREAS HAVE WATER QUALITY COMPONENTS, INSTALL SKIMMER OR RETROFITTING DEVICES AS SHOWN ON THE PLAN AND DO NOT CONSTRUCT WATER QUALITY DEVICES UNTIL FINAL STABILIZATION HAS TAKEN PLACE. WHERE INFILTRATION IS A PART OF A STORMWATER MANAGEMENT COMPONENT, MAINTAIN THE BOTTOM OF THE INFILTRATION AREA A MINIMUM OF SIX INCHES ABOVE FINAL GRADE, TO BE EXCAVATED ONCE FINAL STABILIZATION OF THE SITE IS COMPLETE.

4) CONSTRUCT TEMPORARY AND PERMANENT DRAINAGE STRUCTURES AS NECESSARY FOR CONVEYANCE DURING GRADING ACTIVITIES. INSTALL STORM OUTLET PROTECTION CONCURRENT WITH CONSTRUCTION OF ANY DRAINAGE OUTFALL.

5) AS FINAL GRADE OF SLOPES ARE ACHIEVED, TRACK OR BENCH AS SHOWN ON THE PLANS. INSTALL SLOPE STABILIZATION REQUIRED IN THE PLANS CONCURRENT WITH THE ESTABLISHMENT OF FINAL GRADE OF SLOPES AND CONVEYANCE CHANNELS.

6) INSTALL INLET SEDIMENT TRAPS CONCURRENT WITH THE CONSTRUCTION OF STORM DRAIN STRUCTURES. PROTECT INLETS WHERE EXCAVATION HAS NOT BEEN BACKFILLED AND INLET PROTECTION ESTABLISHED BY DIVERTING TO COMPLETED INLET SEDIMENT TRAPS.

7) SPREAD FERTILIZER AND GRASS SEED/SODDING ALONG WITH RECOMMENDED MULCHING (IF SEEDED) AS SOON AS FINAL GRADE IS ACHIEVED IN ACCORDANCE WITH THE PHASE-III PLAN SHEETS AND ANY APPLICABLE LANDSCAPE PLAN.

8) COMMENCE FINAL GRADING OF ALL ROADS, PARKING LOTS, AND BUILDING PADS.

9) EXCAVATE AND BACKFILL UTILITY CONSTRUCTION IN SECTIONS TO MINIMIZE OPEN EXCAVATION. WHERE UTILITIES ARE AT FINAL GRADE, PLACE PERMANENT SEEDING IN ACCORDANCE WITH PHASE-III PLANS.

PHASE-III - FINAL CONSTRUCTION, LANDSCAPING, AND PERMANENT STABILIZATION

1) AS SOON AS CONCRETE BUILDING PADS ARE POURED, ALL AREAS AROUND THE PADS AND STREET/PARKING AREAS ARE TO BE TEMPORARILY VEGETATED.

2) CONSTRUCT BUILDING PAD AND FOUNDATIONS.

3) CONSTRUCT ALL LEVEL SPREADERS AND MAINTAIN STORM OUTLET PROTECTION AT PIPE OUTLETS AS SHOWN ON THE PLANS.

4) PLACE GRADED AGGREGATE BASE FOR ROADS AND DRIVES. MODIFY ALL CURB INLET SEDIMENT TRAPS AS NEEDED, BOTH FOR DIVERSION OF WATER INTO THE RAISED THROATS AND FOR THE INLET. (Sd2-P MAY BE INSTALLED ON THE GUTTER IN MOST CASES).

5) INSTALL CURBING AND SIDEWALKS. DURING THIS PHASE, CURBING MAY ACT AS A RUNOFF DIVERSION. THE CONTRACTOR MUST MAINTAIN CONVEYANCE AS SHOWN IN THE PLANS, WHICH MAY REQUIRE CONSTRUCTING A SEGMENT OF CURB AT A LATER DATE TO MAINTAIN PROPER CONVEYANCE OF STORMWATER.

6) AFTER A CURING TIME OF NO LESS THAN SEVEN DAYS, BACKFILL CURBS AND SMOOTH SHOULDER GRADES. PLACE FINAL LANDSCAPING/STABILIZATION ON SHOULDERS AS SOON AS SEASON AND CONSTRUCTION ACTIVITY ALLOWS. IF FINAL STABILIZATION WILL NOT BE IMMEDIATE, PLACE TEMPORARY SEEDING OR MULCH ON THE SHOULDERS.

7) PAVE ALL STREETS AND PARKING AREAS. SEDIMENT INLET TRAP PROTECTION MAY REQUIRE MODIFICATION TO MATCH PHASE-III PLAN.

8) ALL SEDIMENT PONDS AND PERIMETER SILT FENCE IS TO BE MAINTAINED FOR THE DURATION OF BUILDING AND SITE CONSTRUCTION. AT COMPLETION OF BUILDING/SITE INFRASTRUCTURE CONSTRUCTION, ALL AREAS ARE TO BE PERMANENTLY VEGETATED.

9) UPON FINAL STABILIZATION TO STORMWATER MANAGEMENT AREAS, INSTALLATION OF WATER QUALITY AND/OR INFILTRATION MEASURES SHALL BE COMPLETED, IMMEDIATELY UPON COMPLETION, AS-BUILT SURVEYS OF THESE SHOULD BE COMPLETED AND PROVIDED TO THE ENGINEER FOR REVIEW. NOTE THAT IMPROPERLY CONSTRUCTED STORMWATER MANAGEMENT AREAS MAY RESULT IN ADDITIONAL LAND DISTURBANCE. CORRECTIVE ACTION, IF REQUIRED, SHOULD BE TAKEN BEFORE A NOTICE OF TERMINATION IS FILED.

10) UPON FINAL STABILIZATION OF 100% OF THE CONTRIBUTING ON-SITE DRAINAGE AREAS, REMOVE THE RESPECTIVE TEMPORARY STRUCTURAL BMP'S USE PERMANENT VEGETATIVE BMP'S AND LANDSCAPING SHOWN ON THE PHASE-III AND LANDSCAPE PLAN TO STABILIZE DISTURBED AREAS FROM STRUCTURAL BMP'S AS THEY ARE REMOVED.

NOTICE OF TERMINATION (NOT)

1) THE PRIMARY PERMITTEE IS TO SUBMIT A NOTICE OF TERMINATION ONCE THE FOUR FOLLOWING CRITERIA ARE MET:

A) THE ENTIRE STANDALONE DEVELOPMENT HAS UNDERGONE FINAL STABILIZATION;
B) ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THE NPDES PERMIT HAVE CEASED; AND
C) THE SITE IS IN COMPLIANCE WITH THIS PERMIT AND ALL TEMPORARY BMP'S HAVE BEEN REMOVED.

2) IF THE PRIMARY PERMITTEE HAS ELECTED TO SUBMIT NOI'S FOR SEPARATE PHASES OF THE STANDALONE DEVELOPMENT, THE PHASE OR PHASES OF THE STANDALONE DEVELOPMENT ON THE NOT MUST CORRESPOND TO THE PHASE OR PHASES IN THE NOI.

GEORGIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
Cd	CHECK DAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Cd-S	CHECK DAM STONE CHECK DAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Cd-Hb	CHECK DAM STRAW-BALE CHECK DAMS			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Cd-Fs	CHECK DAM COMPOST FILTER SOCK			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION		Ch	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Ch-1	CHANNEL STABILIZATION CATEGORY 1 (0-5 FT/S) VEGETATED LINING		Ch-1	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Ch-2	CHANNEL STABILIZATION CATEGORY 2 (2-10 FT/S) RIP RAP LINING		Ch-2	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Ch-3	CHANNEL STABILIZATION CATEGORY 3 (> 10 FT/S) CONCRETE LINING		Ch-3	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT		Co	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION		Cr	A travel way constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Cw	CONCRETE WASHOUT AREA			Area for collecting, retaining, and recycling the washwater and solids from washing down mixed truck chutes and pump truck hoppers at construction sites.
Dc	STREAM DIVERSION CHANNEL		Dc	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Dc-A	STREAM DIVERSION CHANNEL (0-2.5 FT/S) GEOTEXTILE, POLYETHYLENE FILM, OR SOD		Dc-A	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Dc-B	STREAM DIVERSION CHANNEL (0-2.5 FT/S) GEOTEXTILE ALONE		Dc-B	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Dc-C	STREAM DIVERSION CHANNEL (0-2.5 FT/S) CLASS I RIPRAP AND GEOTEXTILE		Dc-C	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWN DRAIN STRUCTURE		Dn1	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWN DRAIN STRUCTURE		Dn2	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING		Fr	A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABIONS		Ga	Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		Gr	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER		Lv	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM		Rd	A permanent or temporary stone filter dam installed across small streams or drainage ways.
Re	RETAINING WALL		Re	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETROFITTING		Rt	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE WITH STONE FILTER		Rt-P	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Rt-B	RETROFITTING SLOTTED BOARD DAM WITH STONE OR FILTER FABRIC		Rt-B	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Rt-Sg	RETROFITTING SILT CONTROL GATE		Rt-Sg	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER		Sd1	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd1-NS	SEDIMENT BARRIER TYPE NS: NONSENSITIVE AREAS		Sd1-NS	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd1-S	SEDIMENT BARRIER TYPE S: SENSITIVE AREAS		Sd1-S	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd1-Fs	SEDIMENT BARRIER TYPE S: SENSITIVE AREAS COMPOST FILTER SOCK		Sd1-Fs	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER (TIMBER CLEARING ONLY)		Sd1-BB	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-E	INLET SEDIMENT TRAP EXCAVATED INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-F	INLET SEDIMENT TRAP FILTER FABRIC WITH SUPPORTING FRAME			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-B	INLET SEDIMENT TRAP BAFFLE BOX			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-Bg	INLET SEDIMENT TRAP BLOCK AND GRAVEL DROP INLET PROTECTION			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-G	INLET SEDIMENT TRAP GRAVEL DROP INLET PROTECTION			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-S	INLET SEDIMENT TRAP SOD INLET PROTECTION			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd2-P	INLET SEDIMENT TRAP CURB INLET PROTECTION			A curb inlet filter shall be installed on inlets receiving runoff from disturbed areas using "pigs-in-a-blanket" with a gap to allow for overflow and prevent hazardous ponding in the roadway.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN		Sd3	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP		Sd4	A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sd4-A	TEMPORARY SEDIMENT TRAP OVERFLOW		Sd4-A	A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sd4-B	TEMPORARY SEDIMENT TRAP COMBINATION STRAW BALE AND SILT FENCE OUTLET		Sd4-B	A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sd4-C	TEMPORARY SEDIMENT TRAP ROCK OUTLET		Sd4-C	A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER		Sk	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
SpB	SEEP BERM		SpB	Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.
Sr	TEMPORARY STREAM CROSSING		Sr	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
Sr-B	TEMPORARY STREAM CROSSING BRIDGE CROSSING		Sr-B	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
Sr-C	TEMPORARY STREAM CROSSING CULVERT CROSSING		Sr-C	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORM DRAIN OUTLET PROTECTION		St	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING		Su	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN		Tc	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tc-F	TURBIDITY CURTAIN FLOATING TURBIDITY CURTAINS		Tc-F	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tc-S	TURBIDITY CURTAIN STAKED TURBIDITY CURTAINS		Tc-S	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING		Tp	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL		Wt	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION		Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seeding on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)		Ds4	A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Cc	FLOCCULANTS AND COAGULANTS		Fl-Cc	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAM BANK STABILIZATION		Sb	The use of readily available native plant materials to maintain and enhance steam banks, or to prevent, or restore and repair small stream bank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.
Tac-1	TACKIFIERS TYPE I: SYNTHETIC POLYMERS		Tac-1	Substance used to anchor straw or hay mulch by causing the organic material to bind together.
Tac-2	TACKIFIERS TYPE II: ORGANIC POLYMERS		Tac-2	Substance used to anchor straw or hay mulch by causing the organic material to bind together.
Tac-3	TACKIFIERS TYPE III: SYNTHETIC/ORGANIC BLENDS		Tac-3	Substance used to anchor straw or hay mulch by causing the organic material to bind together.
Tac-4	TACKIFIERS TYPE IV: ORGANIC TACKIFIERS WITH SYNTHETIC FIBERS		Tac-4	Substance used to anchor straw or hay mulch by causing the organic material to bind together.
Tac-5	TACKIFIERS TYPE V: SYNTHETIC/ORGANIC BLENDS WITH SYNTHETIC FIBERS		Tac-5	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

LEGEND

CODE	PRACTICE	DETAIL	SYMBOL	DESCRIPTION
N/A	BASIN DELINEATION	N/A		
N/A	LIMITS OF DISTURBANCE	N/A	LOD	
N/A	SOIL DELINEATION	N/A		

SOIL TYPE

AxB2	APPLING COARSE SANDY LOAM, 2 TO 6 PERCENT SLOPES, ERODED

SEE SHEET SERIES C-4 FOR EROSION AND SEDIMENTATION CONTROL PLANS

ENGINEER:
FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:
AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974
CONTACT: STACY BROWN

PROJECT:
O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS
210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057, PERMIT #

SEAL:
GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES

SHEET NUMBER: C-4.2

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD:_____Dekalb County

Project Name: O'Kelley Library **Address: 210 Main Street, Loganville, GA**

Local Issuing Authority: City of Loganville **Date on Plans: 08/09/2024**

Name & Email of person filling out checklist: Josh Carnes____jcarnes@fg-inc.net

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
C-4.21	Y	1	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
C-4	Y	2	Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
N/A	N/A	3	Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. * (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)
C-4	Y	4	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
C-4	Y	5	Provide the name, address, email address, and phone number of primary permittee.
C-4	Y	6	Note total and disturbed acreages of the project or phase under construction.
C-4.3 - C-4.5	Y	7	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
C-4	Y	8	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
C-4	Y	9	Descripton of the nature of construction activity and existng site conditions.
C-4	Y	10	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
C-4	Y	11	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residental areas, wetlands, marshlands, etc. which may be affected.
C-4	Y	12	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on **Part IV page 19** of the permit.
C-4	Y	13	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on **Part IV page 19** of the permit. *
C-4	Y	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with **Part IV.A.5 page 25** of the permit. *
C-4.1	Y	15	Clearly note the statement that "Non-exempt activites shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
C-4	Y	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
C-4	Y	17	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
C-4.1	Y	18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
C-4.1	Y	19	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
C-4.1	Y	20	Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
C-4.1	Y	21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
N/A	N/A	22	Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
N/A	N/A	23	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
C-4.3 - C-4.5	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
C-4.3 - C-4.5	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
C-4.1	Y	26	Descripton of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
C-4.1	Y	27	Description of practices to provide cover for building materials and building products on site. *
C-4.1	Y	28	Descripton of the practices that will be used to reduce the pollutants in storm water discharges. *
C-4	Y	29	Descripton and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
C-4.1	Y	30	Provide complete requirements of Inspections and record keeping by the primary permittee. *
C-4.1	Y	31	Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
C-4.1	Y	32	Provide complete details for Retention of Records as per Part IV.F. of the permit. *
C-4.1	Y	33	Descripton of analytical methods to be used to collect and analyze the samples from each location. *
C-4	Y	34	Appendix B rationale for NTU values at all outfall sampling points where applicable. *
C-4.3 - C-4.5	Y	35	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
C-4.3 - C-4.5	Y	36	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
C-4.3 - C-4.5	Y	37	Grsphic scale and North arrow.
C-4.3 - C-4.5	Y	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Map Scale	Ground Slope	Contour Intervals, ft
1 inch = 100ft or larger scale	Flat 0 - 2%	0.5 or 1
	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

N/A	N/A	39	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventonal BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.
N/A	N/A	40	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
N/A	N/A	41	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
N/A	N/A	42	Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
C-4.3 - C-4.5	Y	43	Delineation and acreage of contributing drainage basins on the project site.
N/A	N/A	44	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *
C-4	Y	45	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
N/A	N/A	46	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
C-4.3 - C-4.5	Y	47	Soil series for the project site and their delineation.
C-4.3 - C-4.5	Y	48	The limits of disturbance for each phase of construction.
C-4.3 - C-4.5	Y	49	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justificaton explaining this decision must be included in the Plan.
C-4.3 - C-4.5	Y	50	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
C-4.6 - C-4.7	Y	51	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
C-4.7	Y	52	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2024

ENGINEER:

FORESITE group

Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:

AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974

CONTACT: STACY BROWN

PROJECT:

O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS

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LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057, PERMIT #

SEAL:

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PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

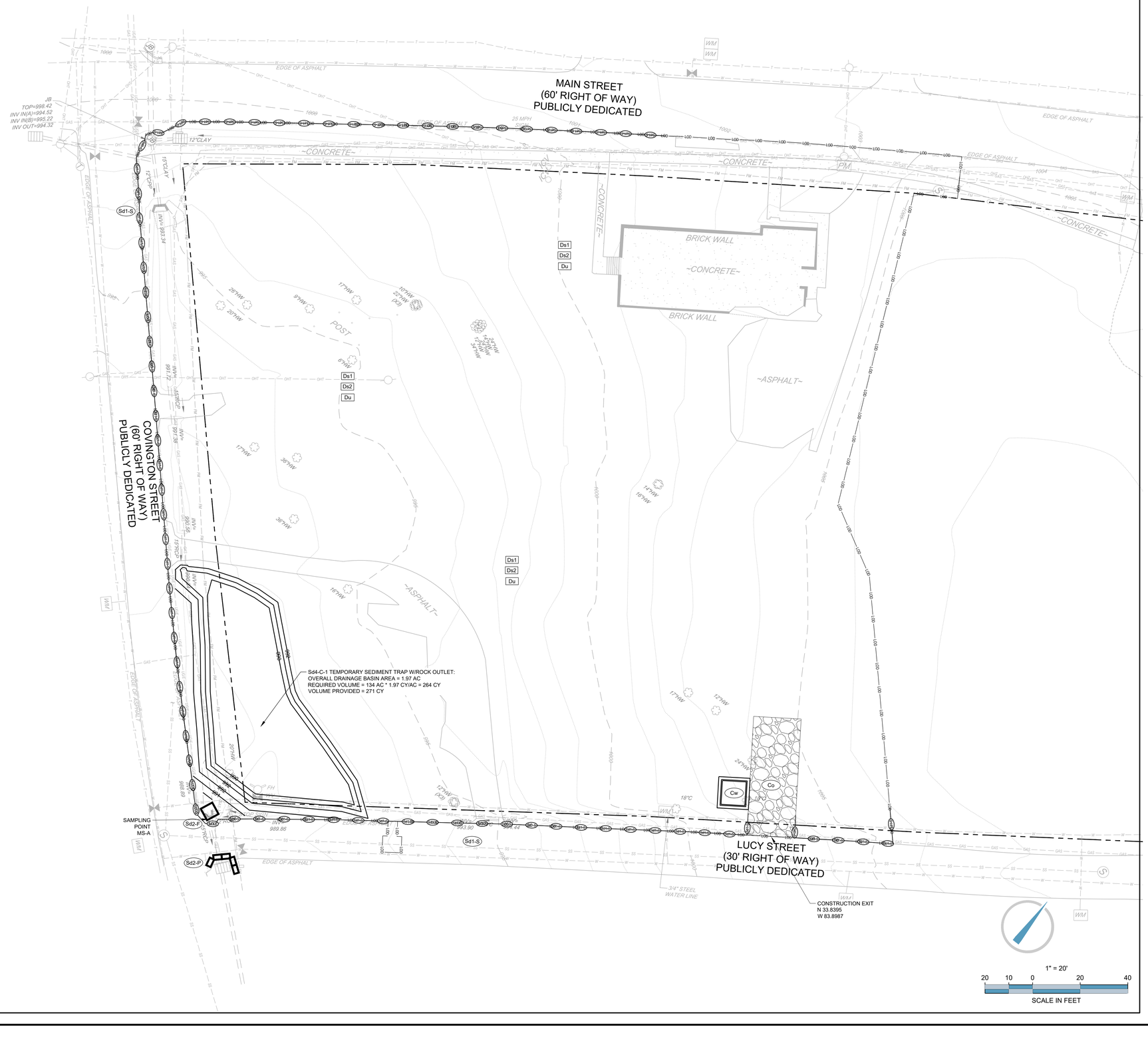
EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES

SHEET NUMBER:

C-4.21

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
2184.001



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EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
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B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	1" = 20'

TITLE:

INITIAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

SHEET NUMBER:

C-4.3

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001

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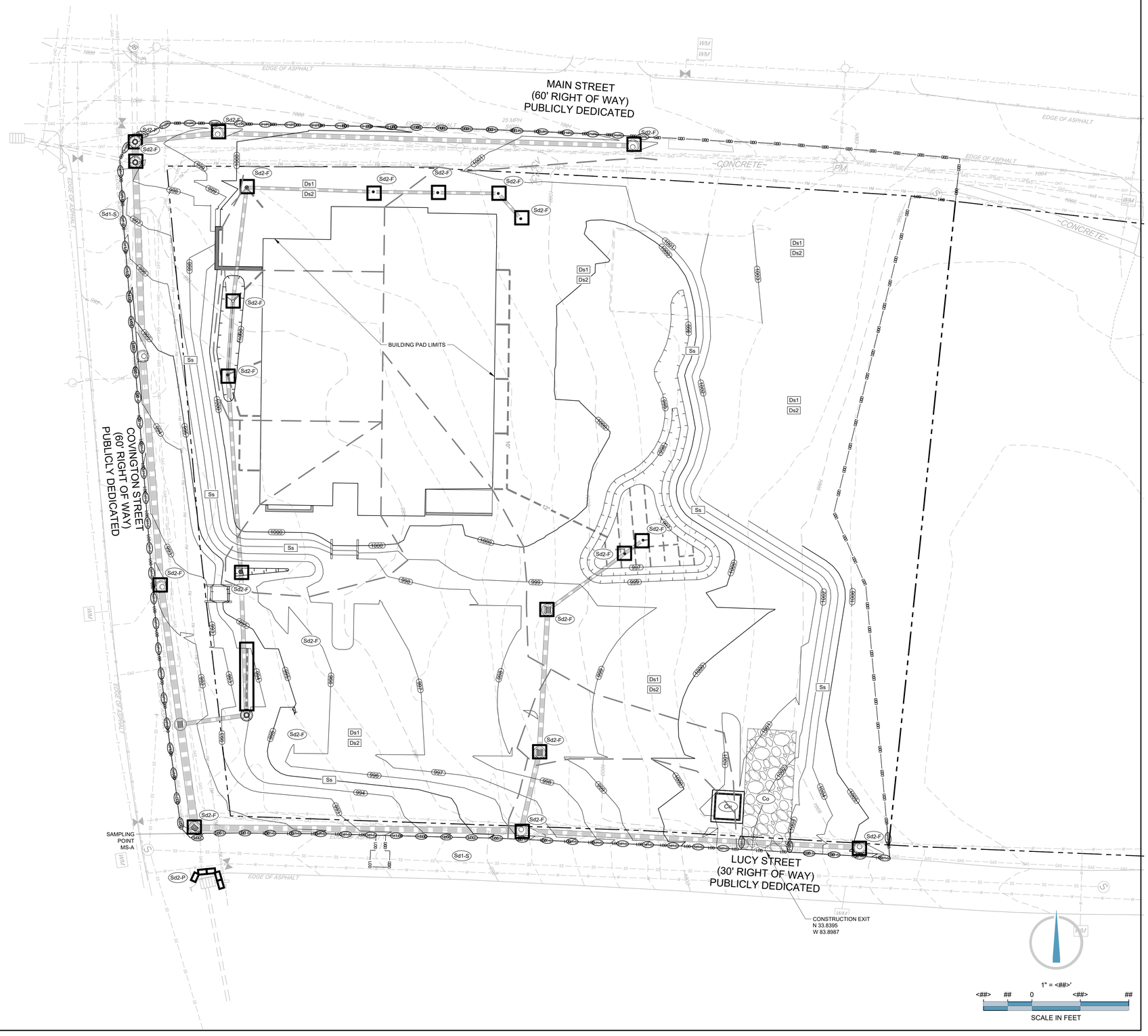

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3740 Davinci Ct.
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Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

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AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974
CONTACT: STACY BROWN

PROJECT:
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PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
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B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

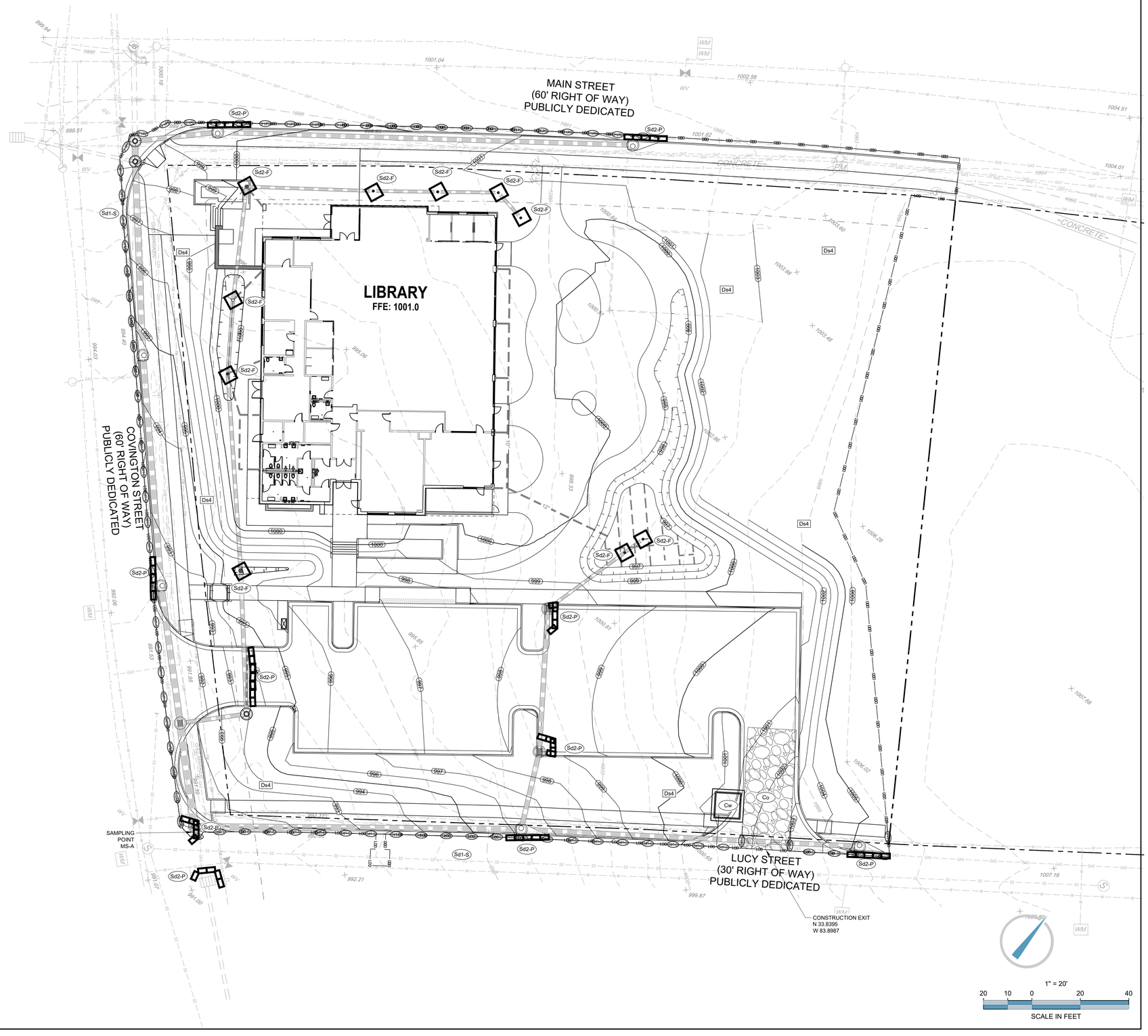
PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	1" = <##>'
TITLE:	

INTERMEDIATE EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

SHEET NUMBER:
C-4.4

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
2184.001



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3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:

AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974

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PROJECT:

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REVISIONS	DATE
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B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	1" = 20'

TITLE:

FINAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

SHEET NUMBER:

C-4.5

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001

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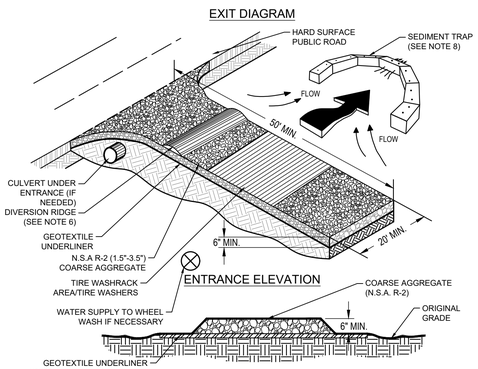
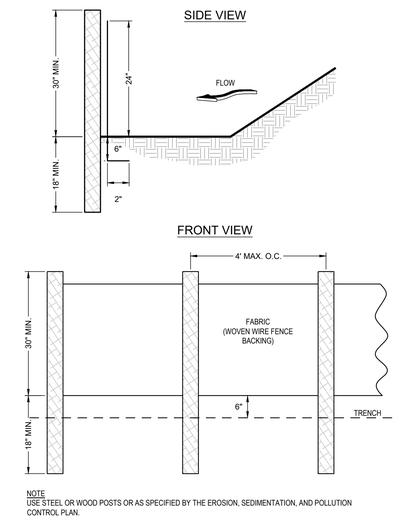


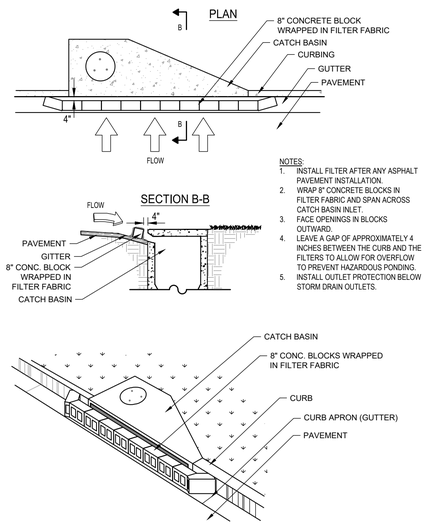
NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%..
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Co CRUSHED STONE CONSTRUCTION EXIT
NOT TO SCALE



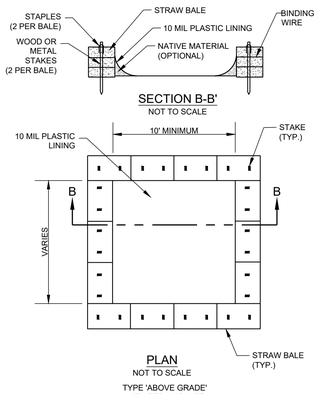
NOTE
USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

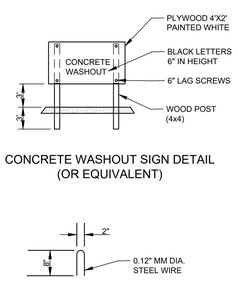
Sd1-S SILT FENCE -TYPE SENSITIVE
NOT TO SCALE



NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

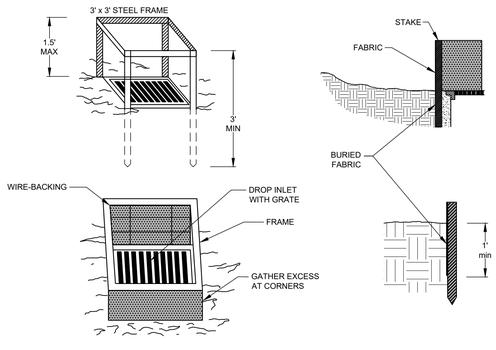
Sd2-P CURB INLET FILTER "PIGS IN BLANKET"
NOT TO SCALE





NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN (SEE FIG. 4-15) SHALL BE INSTALLED WITHIN 10' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

Cw CONCRETE WASHOUT
NOT TO SCALE



NOTES:
1. FOR STAKES, USE STEEL WITH A MINIMUM LENGTH OF 3 FEET.
2. SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART, AND SECURELY DRIVE THEM INTO THE GROUND, MINIMUM OF 18 INCHES DEEP.
3. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2 X 4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT A MAXIMUM OF 1.5 FEET ABOVE THE DROP INLET CREST.
4. PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN A TRENCH AND BACKFILL THE TRENCH WITH CRUSHED STONE OF COMPACTED SOIL.
5. FASTEN FABRIC SECURELY TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
6. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.

Sd2-F INLET SEDIMENT TRAP - FILTER FABRIC WITH SUPPORTING FRAME
NOT TO SCALE

ENGINEER:
FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:
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1121 EAST AVENUE
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PROJECT MANAGER:	JMB
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DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS

SHEET NUMBER:
C-4.6

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
2184.001

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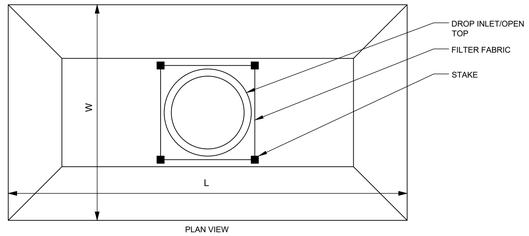
Sd2-Excavated Inlet Sediment Trap Calculations

Structure ID		100	106	108	110	112	114	202	302	304
Drainage Area (1 ac. max.)	(acres)	0.69	0.1	0.05	0.05	0.05	0.05	0.1	0.08	0.94
Volume Required (67 c.y./ac.)	(c.y.)	46.2	6.7	3.4	3.4	3.4	3.4	6.7	5.4	63.0
Volume Required	(cu. ft.)	1248	181	90	90	90	90	181	145	1700
Excavated Depth	(ft.)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Circular										
Required Excav. Diameter (ft.)		29				10	10		10	34
Semi-Circular or Quarter-Circular										
Rectangular										
Length (ft.)			12	16	16			15		
Width (ft.)			8	3	3			7		
Volume Provided	(cu. ft.)	1321		96	96	157	157	210	157	1816



Sd2-E EXCAVATED INLET SEDIMENT TRAP
NOT TO SCALE

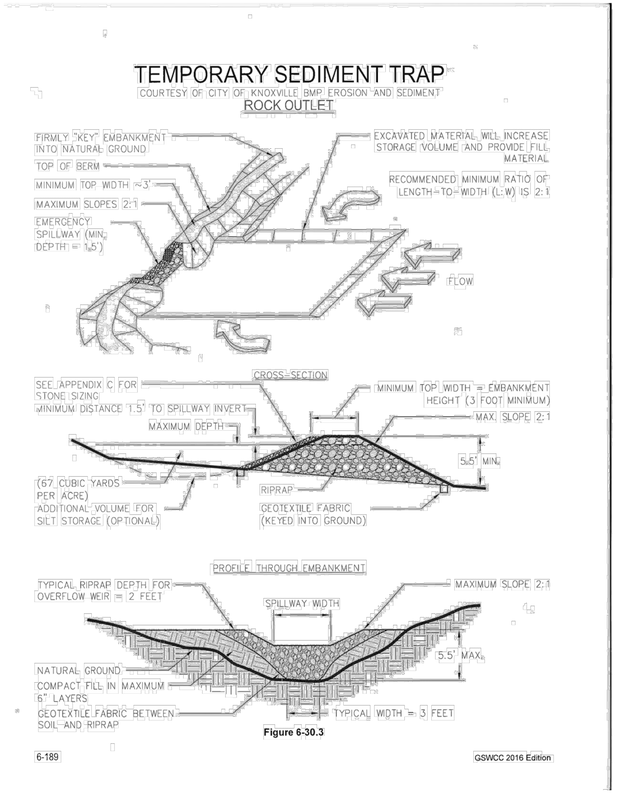


Figure 6-30.3

6-189 GSWCC 2016 Edition

Sd4-C EXCAVATED INLET SEDIMENT TRAP (ROCK OUTLET)
NOT TO SCALE

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Suite 100
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JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN

TITLE:
EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS

SHEET NUMBER:
C-4.7

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
2184.001

Ds1 MULCHING FOR TEMPORARY STABILIZATION WITHOUT VEGETATION

WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

SITE PREPARATION

1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS.
3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCH MATERIALS AND APPLICATION RATES	
MATERIAL	RATE
STRAW OR HAY	2-4" DEEP
WOOD WASTE, CHIPS, SAW DUST, OR BARK	2-3" DEEP (ABOUT 6-9 TONS/ACRE)
MATTING OR NETTING	ACCORDING TO MANUFACTURER RECOMMENDATIONS
POLYETHYLENE FILM	CAN BE LAID OVER SENSITIVE AREAS AND STOCKPILES, MUST BE SECURED.

APPLICATION

1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, ADD 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT.

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.
2. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-S OR SS-1. THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIFERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION TB - TACKIFERS AND BINDERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
3. 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.
4. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

GRADING AND SHAPING

1. EXCESSIVE WATER RUNOFF SHALL BE REDUCED BY PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, AND OTHERS
2. NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION

1. WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.
2. 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.

LIME AND FERTILIZER

1. SOIL TESTS MUST BE PERFORMED DETERMINE THE REQUIRED AMOUNTS OF FERTILIZER, LIME, AND OTHER AMENDMENTS. SOIL TESTS SHOULD INCLUDE RECOMMENDATIONS FOR APPLICATION RATES.
2. 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.
3. ALL GRADED AREAS REQUIRE LIME APPLICATION UNLESS SOIL TEST INDICATE OTHERWISE.
4. BIOSTIMULANTS SHOULD ALSO BE CONSIDERED WHEN THERE IS LESS THAN 3% ORGANIC MATTER IN THE SOIL.
5. FERTILIZER SHOULD BE APPLIED BEFORE SEEDBED 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 REMAINING REQUIRED APPLICATION RATE.
6. FOR LOW FERTILITY SOILS, AGRICULTURAL LIME & FERTILIZER REQUIRED UNLESS SOIL TESTS SHOW IT IS NOT REQUIRED AND THAT SOILS ARE REASONABLY FERTILE. FOR LOW FERTILITY SOILS, APPLY 10-10-10 FERTILIZER AT 500-700 LB/ACRE. APPLY AGRICULTURAL LIME AT 1 TON PER ACRE.

SEEDING

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, CULTIPACKER-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.

MULCHING

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 (Ds1).

IRRIGATION

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 NEEDED.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)					
SPECIES		SEEDING RATE PER 1,000 S.F.	SEEDING RATE PER ACRE*	PLANTING DATES	
				MTNS./ LIMESTONE	PIEDMONT	COASTAL
BARLEY	(ALONE) (IN MIXTURE)	3.3 LBS. 0.6 LBS.	3 bu. 1/2 bu.	9/1-10/31	9/15-11/15	10/1-12/31
RYE	(ALONE) (IN MIXTURE)	3.9 LBS. 0.6 LBS.	3 bu. 1/2 bu.	8/15-10/31	9/15-11/30	10/1-12/31
ANNUAL RYEGRASS	ALONE	0.9 LBS.	40 LBS.	8/15-11/15	9/1-12/15	9/15-12/31
ANNUAL LESPEDEZA	(ALONE) (IN MIXTURE)	0.9 LBS. 0.2 LBS.	40 LBS. 10 LBS.	3/1-3/31	3/1-3/31	2/1-2/28
WEEPING LOVEGRASS	(ALONE) (IN MIXTURE)	0.1 LBS. 0.05 LBS.	4 LBS. 2 LBS.	4/1-5/31	4/1-5/31	3/1-5/31
SUDANGRASS		1.4 LBS.	60 LBS.	5/1-7/31	5/1-7/31	4/1-7/31
BROWN TOP MILLET	(ALONE) (IN MIXTURE)	0.9 LBS. 0.2 LBS.	40 LBS. 10 LBS.	4/15-6/15	4/15-6/60	4/15-6/30
WHEAT	(ALONE) (IN MIXTURE)	4.1 LBS. 0.7 LBS.	3 bu. 1/2 bu.	9/15-11/30	10/1-12-15	10/15-12/31

1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES.
2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.
3. SEE "THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA, SIXTH EDITION" FOR MAJOR LAND RESOURCE AREAS.
4. SEEDING RATES ARE BASED ON PURE LIVE SEED. (PLS)

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

NOTE THAT IN THE CASE OF DISCREPANCIES BETWEEN ANY OF THE INFORMATION BELOW AND THE INFORMATION CONTAINED IN TREE REPLACEMENT AND LANDSCAPE PLANS & DETAILS, THE LATTER SHALL BE USED.

GRADING AND SHAPING

1. GRADING AND SHAPING MAY NOT BE WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.
2. WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION.
3. 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

1. AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. ALL GRADED AREAS REQUIRE LIME APPLICATION UNLESS SOIL TEST INDICATE OTHERWISE. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
2. AGRICULTURAL LIME IS GENERALLY NOT REQUIRED WHERE ONLY TREES AND SOME LANDSCAPING IS PLANTED, REFER TO TREE PROTECTION AND LANDSCAPE PLANS FOR LIME REQUIREMENTS IN AREAS OF TREES AND SHRUBS.
3. REFER TO THE TABLE ON THIS SHEET OR TABLE 6-5.1 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GA, SIXTH EDITION, FOR FERTILIZER REQUIREMENTS BY PLANTING SPECIES.

LIME AND FERTILIZER APPLICATION

1. WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INNOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FI BER 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 HYDROSEEDER.
2. FINELY GROUND LIMESTONE CAN BE APPLIED IN THE MULCH SLURRY OR IN COMBINATION WITH THE TOP DRESSING.
3. WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS:
   a. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
   b. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS.
   c. BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR TRENCHED.
   d. A FERTILIZER PELLET SHALL BE PLACED AT ROOT DEPTH IN THE CLOSING HOLE BESIDE EACH PINE TREE SEEDLING.

PLANT SELECTION

1. PLANT AND LANDSCAPE SPECIES TO BE AS INDICATED ON THE TREE REPLACEMENT PLAN AND LANDSCAPE PLANS. IN THE EVENT NO SUCH PLAN HAS BEEN PREPARED, AND SPECIES IS NOT CALLED OUT SPECIFICALLY ON THE PERMANENT VEGETATION PLAN, SPECIES ARE TO BE SELECTED BASED ON THE TABLES SHOWN ON THIS SHEET OR FROM TABLES 6-4.1, 6-5.2, 6-5.3, OR 6.5-4 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA, SIXTH EDITION, AND APPROVED IN WRITING BY THE OWNER.

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.

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; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FI RM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.
2. TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
3. TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE.
4. ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

1. ALL INDIVIDUAL PLANTINGS SHOULD BE PERFORMED IN ACCORDANCE WITH LANDSCAPE OR TREE REPLACEMENT PLANS.

INOCULANTS

1. ALL LEGUME SEED SHALL BE INOCULATED WITH APPROPRIATE NITROGEN-FIXING BACTERIA. THE INOCULANT SHALL BE A PURE CULTURE PREPARED SPECIFICALLY FOR THE SEED SPECIES AND USED WITHIN THE DATES ON THE CONTAINER.
2. A MIXING MEDIUM RECOMMENDED BY THE MANUFACTURER SHALL BE USED TO BOND THE INOCULANT TO THE SEED. FOR CONVENTIONAL SEEDING, USE TWICE THE AMOUNT OF INOCULANT RECOMMENDED BY THE MANUFACTURER. FOR HYDRAULIC SEEDING, FOUR TIMES THE AMOUNT OF INOCULANT RECOMMENDED BY THE MANUFACTURER SHALL BE USED.
3. ALL INOCULATED SEED SHALL BE PROTECTED FROM THE SUN AND HIGH TEMPERATURES AND SHALL BE PLANTED THE SAME DAY INOCULATED. NO INOCULATED SEED SHALL REMAIN IN THE HYDROSEEDER LONGER THAN ONE HOUR.

PLANTING

HYDRAULIC SEEDING

MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.

CONVENTIONAL SEEDING

SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.

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.

MULCHING

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% TO 100% SOIL COVER. PERMANENT MULCH COVER SELECTION WHERE VEGETATION IS NOT APPLIED SHOULD BE PLACED AS INDICATED ON TREE REPLACEMENT AND/OR LANDSCAPING PLANS, OR AT THE DIRECTION OR APPROVAL OF THE OWNER. MULCH SELECTION FOR TEMPORARY COVER OF PERMANENT VEGETATION SHALL BE BASED ON SELECTION GUIDELINES IN THE "MULCH REQUIREMENTS FOR PERMANENT STABILIZATION" TABLE ON THIS SHEET.

WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FI BERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING. APPLYING MULCH

STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:

1. ***HAY AND STRAW MULCH*** SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW 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 PLOWED INTO THE SOIL.
2. ***SYNTHETIC TACKIFIERS. BINDERS OR HYDRAULIC MULCH*** SPECIFICALLY DESIGNED TO TACK STRAW, SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ALL TACKIFIERS, BINDERS OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO TACK STRAW SHOULD BE VERIFIED NONTOXIC THROUGH EPA 2021.0 TESTING. REFER TO **TACKIFIERS-TAC**.
3. ***RYE OR WHEAT*** CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE-HALF BUSHEL PER ACRE.
4. ***PLASTIC MESH OR NETTING*** WITH MESH NO LARGER 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.

BEDDING MATERIAL

MULCH SHALL BE APPLIED TO ORNAMENTAL BEDS, AROUND SHRUBS, AND ON BARE AREAS ON LAWNS. WHEN BEDDING MATERIALS ARE NOT SPECIFIED ON THE LANDSCAPE AND/OR TREE REPLACEMENT PLANS, THE CONTRACTOR SHALL SELECT AND SEEK PRIOR APPROVAL OF THE OWNER TO PLACE BEDDING MATERIAL SHOWN IN THE "MULCH REQUIREMENTS FOR PERMANENT STABILIZATION" TABLE ON THIS SHEET.

IRRIGATION

WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION.

TOPDRESSING

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 ON THIS. SHEET AND IN TABLE 6-5.1. OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA, SIXTH EDITION.

PLANTING AND FERTILIZER SCHEDULE FOR PERMANENT GRASSING											
SPECIES	PURE LIVE SEED (PLS) PER 1,000 S.F.	RATE PER ACRE	PLANTING DATES			YEARS TO APPLY FERTILIZER	FERTILIZER ANALYSIS			FERTILIZER RATE (lb/Ac)	N TOP DRESSING RATE
			MTNS./ LIMESTONE	PIEDMONT	COASTAL		N	P	K		
WEEPING LOVEGRASS AND VIRGATA OR SERICEA LESPEDEZA	0.1 LBS.	4 LBS.	3/15 - 6/15	3/1 - 6/15	2/1 - 6/15	FIRST	6	12	12	1500	50
	1.4 LBS.	40 LBS.	3/15 - 6/15	3/1 - 6/15	2/15 - 6/1	SECOND	0	10	10	1000	-
SERICEA LESPEDEZA SEEDBEARING HAY WITH OVERSEEDED WEEPING LOVEGRASS	138 LBS.	3 TONS	10/1 - 3/1	10/1 - 3/1	10/15 - 2/1	FIRST	6	12	12	1500	50
	0.05 LBS.	2 LBS.	3/1 - 6/15	3/1 - 6/15	2/1 - 6/15	SECOND	0	10	10	1000	-
HULLED COMMON BERMUDAGRASS AND SERICEA LESPEDEZA	0.2 LBS.	10 LBS.	N/A	2/15 - 7/1	2/15 - 6/15	FIRST	6	12	12	1500	50
	1.4 LBS.	60 LBS.	N/A	3/1 - 6/15	2/15 - 6/15	SECOND	0	10	10	1000	-
UNHULLED COMMON BERMUDAGRASS AND VIRGATA OR SERICEA LESPEDEZA SEED HAY	0.2 LBS.	10 LBS.	N/A	11/1 - 2/1		FIRST	6	12	12	1500	50
	1.4 LBS.	40 LBS.	N/A	3/1 - 6/15		SECOND	0	10	10	1000	-
	140 LBS.	3 TONS	N/A	10/1 - 3/1	10/15 - 2/1						
TALL FESCUEGRASS CLEAN COMBINE RUN VIRGATA OR SERICEA LESPEDEZA	0.7 LBS	30LBS	8/1 - 11/1	8/15 - 11/1	2/15 - 6/1	FIRST	6	12	12	1500	50(1)
	1.4 LBS.	40 LBS.	3/1 - 4/15 (3/15 - 5/1 FOR LESPEDEZA)	3/1 - 6/15		SECOND	0	10	10	1000	-
TALL FESCUEGRASS (ALONE) *FESTUCA ARUNDINACEA*	1.1 LBS	50LBS	3/1-5/1, 8/15-11/1	9/1-11/1	N/A	FIRST	6	12	12	1500	0-50(1),(2)
						SECOND	6	12	12	1000	
COMMON BERMUDA, HULLED ALONE *CYNODON DACTYLON*	0.2 LBS.	10 LBS.	N/A	4/1-4/31	3/15-5/31	FIRST	6	12	12	1500	50-100
						SECOND	6	12	12	800	50-100
COMMON BERMUDA, UNHULLED *CYNODON DACTYLON (PLANT WITH WINTER ANNUALS)*	0.2 LBS.	10 LBS.	N/A	10/1-3/1	11/1-2/1	FIRST	6	12	12	1500	50-100
						SECOND	6	12	12	800	50-100

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
6 - APPLY WHEN PLANTS GROW TO A HEIGHT OF 2-4 INCHES.

MULCH REQUIREMENTS FOR PERMANENT STABILIZATION		
MATERIAL	RATE	WHERE TO USE
DRY STRAW	2 TONS/ACRE	TEMPORARY COVER IN SEEDED AREAS
DRY HAY	2-1/2 TONS/ACRE	
WOOD CELLULOSE MULCH OR WOOD PULP FIBER	500 LB/ACRE	HYDRAULIC APPLICATIONS (REQUIRES STRAW OR HAY APPLICATION NOTED ABOVE FOLLOWING HYDRAULIC SEEDING)
WOOD CELLULOSE OR WOOD PULP FIBER W/ TACKIFIER	1,000 LB/ACRE	USE FOR HYDRAULIC SEEDING ON SLOPES 3/4:1 AND GREATER
SERICEA LESPEDEZA HAY (CONTAINING MATURE SEED)	3 TONS/ACRE	USE ON AREAS WHERE SERICEA LESPEDEZA IS MAY BE ESTABLISHED
GRAIN STRAW	4" TO 6"	FOR AREAS WHERE ORNAMENTALS OR GROUND COVERS ARE PLANTED AND NO LANDSCAPE/TREE REPLACEMENT PLANS HAVE BEEN PREPARED THAT SPECIFY OTHERWISE. REQUIRES ADVANCE APPROVAL OF OWNER. NOT APPROPRIATE FOR GRASS SEEDING APPLICATIONS.
GRASS HAY	4" TO 6"	
PINE NEEDLES	3" TO 5"	
CHIPPED WOOD MULCH	4" TO 6"	
PINE BARK	4" TO 6"	

Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)

SOIL PREPARATION

1. BRING SOIL SURFACE TO FI NAL 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.
2. TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE A STAND. DON'T USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILANTS.

LIME AND FERTILIZER RATES

1. FERTILIZE AT RATES SHOWN IN THE "FERTILIZER RATES FOR SOD" TABLE ON THIS SHEET.
2. AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS IF AVAILABLE OR AT A RATE OF 1 TO 2 TONS PER ACRE.

INSTALLATION

1. LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD.
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.
3. 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.
4. SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF DIGGING.
5. AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER, IF IRRIGATION IS NOT AVAILABLE.
6. THE SOD TYPE SHOULD BE BASED ON THE LANDSCAPE PLANS, OR IN THE CASE LANDSCAPE PLANS ARE NOT INCLUDED, AT THE DIRECTION OF THE OWNER.

FERTILIZER REQUIREMENTS FOR SOD					
SPECIES *VARIETY*	RESOURCE AREAS	MAINT. YEAR	FERTILIZER (N-P-K)	RATE (LB/AC)	NITROGEN TOP DRESSING (LB/AC)
BERMUDA GRASS *COMMON*	M-L, P, C	FIRST	6-12-12	1500	50-100
		SECOND	6-12-12	800	50-100
BAHAIA GRASS *PENSACOLA*	P, C	FIRST	6-12-12	1500	50-100
		SECOND	6-12-12	800	50-100
CENTIPEDE	P, C	FIRST	6-12-12	1500	50-100
		SECOND	6-12-12	800	50-100
ST AUGUSTINE *COMMON*	P, C	FIRST	6-12-12	1500	50-100
		SECOND	6-12-12	800	50-100
ZOYSIA *EMERALD, MYER*	P, C	FIRST	6-12-12	1500	50-100
		SECOND	6-12-12	800	50-100
TALL FESCUE *KENTUCKY*	M-L, P	FIRST	6-12-12	1500	50-100
		SECOND	6-12-12	1000	-

M-L: MOUNTAIN-LIMESTONE; P: PIEDMONT, C: COASTAL

SEE "THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA, SIXTH EDITION FOR MAJOR LAND RESOURCE AREAS.

Ss SLOPE STABILIZATION

ALL SLOPE STABILIZATION PRODUCTS MUST HAVE A DOCUMENTED "C" FACTOR OF 0.080 PER ASTM D6459 AND BE ON THE GASWCC APPROVED PRODUCTS LIST (APL).

ROLLED EROSION CONTROL PRODUCT (RECP) CLASSIFICATIONS:

- SHORT TERM - FUNCTIONAL LONGEVITY OF 12 MONTHS
- EXTENDED TERM - FUNCTIONAL LONGEVITY OF 24 MONTHS
- LONG TERM - FUNCTIONAL LONGEVITY OF 36 MONTHS

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", SIXTH EDITION, FOR MORE DETAILED INFORMATION ON SPECIFIC LONGEVITY CRITERIA.

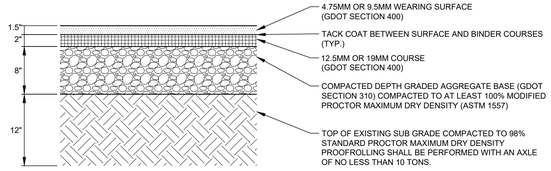
THE APPROVED PRODUCTS LIST AND TEST METHODS FOR APPROVED MATERIALS ARE AVAILABLE AT THE GEORGIA SOIL AND WATER CONSERVATION WEBSITE (HTTP://WWW.GASWCC.GEORGIA.GOV.)

SITE PREPARATION

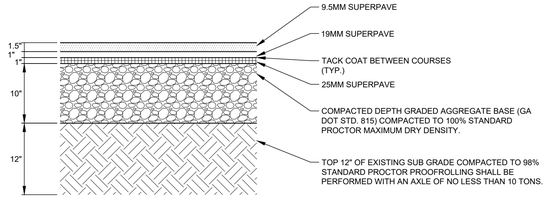
AFTER THE SITE HAS BEEN SHAPED AND GRADED TO DESIGN, PREPARE A FRIABLE SEEDBED RELATIVELY FREE FROM CLODS AND ROCKS MORE THAN ONE INCH IN DIAMETER, AND ANY FOREIGN MATERIAL THAT WILL PREVENT CONTACT OF THE SOIL STABILIZATION MAT WITH THE SOIL SURFACE. SURFACE MUST BE SMOOTH TO ENSURE PROPER CONTACT OF BLANKETS OR MATTING TO THE SOIL SURFACE. IF NECESSARY, REDIRECT ANY RUNOFF FROM THE DITCH OR SLOPE DURING INSTALLATION.

MAINTENANCE

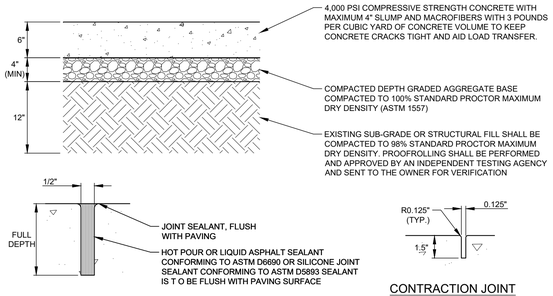
ALL EROSION CONTROL BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMME



C-5 HEAVY DUTY ASPHALT PAVING
NOT TO SCALE

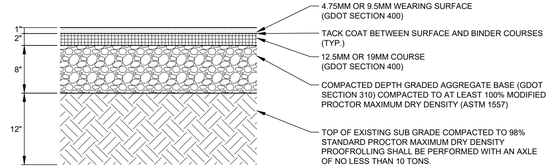


C-5 GDOT SPECIFICATION ASPHALT PAVING
NOT TO SCALE



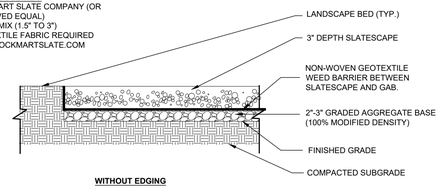
NOTE:
1. DETAIL REFLECTS HEAVY DUTY CONCRETE PAVING RECOMMENDATION BY PROJECT GEOTECHNICAL ENGINEER.
2. A TACK COAT SHALL BE APPLIED BETWEEN THE H/D SECTION AND THE ON-SITE ASPHALT SECTION.
3. **UNLESS OTHERWISE NOTED ON PLANS, CONTRACTION JOINTS TO BE 10'-0" O.C. MAX AND ISOLATION JOINTS TO SEPARATE PAVEMENT FROM CURB, CHANGE OF DIRECTION, OTHER WALK, UTILITY APPURTENANCE, COLD JOINTS OR FACE OF STRUCTURE.** THE JOINTS SHALL EXTEND TO A DEPTH 1/4 OF THE SLAB THICKNESS. IF SAW CUTTING THE JOINTS IS TO BE EMPLOYED, THE JOINTS SHOULD BE CUT WHILE THE CONCRETE IS STILL "GREEN" AND AS SOON AFTER PLACEMENT AS THE EQUIPMENT CAN BE MOVED ONTO THE PAVEMENT WITHOUT DISTURBING THE CONCRETE FINISH.

C-5 HEAVY DUTY CONCRETE PAVING
NOT TO SCALE



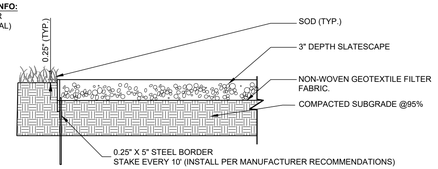
C-5 STANDARD DUTY ASPHALT PAVING
NOT TO SCALE

SLATESCAPE PRODUCT INFO:
SUPPLIER: ROCKMART SLATE COMPANY (OR APPROVED EQUAL)
SIZE: JUMBO MIX (1.5" TO 3")
NOTES: GEOTEXTILE FABRIC REQUIRED
CONTACT: WWW.ROCKMARTSLATE.COM



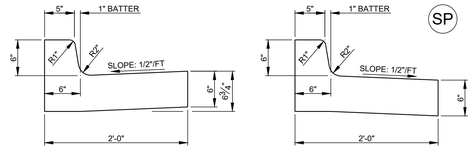
WITHOUT EDGING

METAL EDGING PRODUCT INFO:
SUPPLIER: PERMALOCK (OR APPROVED EQUAL)
SIZE: 0.25" THICK X 5"
NOTES: MILL FINISH
CONTACT: 1-800-356-9660



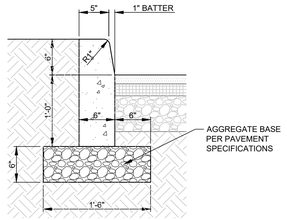
WITH EDGING

C-5 SLATESCAPE PATH
NOT TO SCALE
SEE C-1 FOR LAYOUT



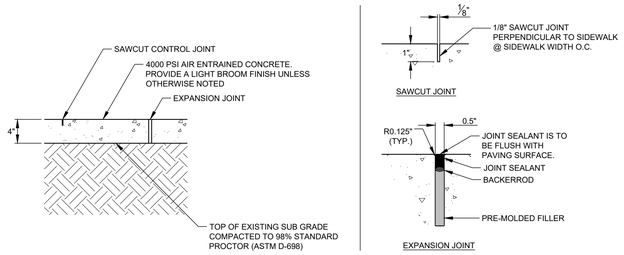
NOTE:
1. 1/2" PRE FORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND RADIUS POINTS.
2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'
3. MAXIMUM DISTANCE DUMMY JOINTS = 10.0'
4. CONCRETE STRENGTH = 3000 P.S.I., SLOPE = 2" MAX. FINISH SHALL BE SMOOTHED AND EVENED WITH WOODEN FLOAT.

C-5 24" CONCRETE CURB AND GUTTER
NOT TO SCALE



NOTE:
1. 1/2" PRE FORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND RADIUS POINTS.
2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'
3. MAXIMUM DISTANCE DUMMY JOINTS = 10.0'
4. CONCRETE STRENGTH = 3000 P.S.I., FINISH SHALL BE SMOOTHED AND EVENED WITH WOODEN FLOAT.

C-5 CONCRETE HEADER CURB
NOT TO SCALE



NOTE:
1. UNLESS OTHERWISE INDICATED, PREFORMED EXPANSION JOINTS TO BE 40'-0" O.C. MAX. OR AT BACK OF CURB, CHANGE OF DIRECTION, OTHER WALK UTILITY APPURTENANCE, OR FACE OF STRUCTURE.
2. UNLESS OTHERWISE INDICATED, CONTROL JOINTS AT 5'-0' O.C.
3. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.5% (1:67).

C-5 CONCRETE SIDEWALK
NOT TO SCALE

GEORGIA811 Utilities Protection Center, Inc.
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ENGINEER:
FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:
AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974
CONTACT: STACY BROWN

PROJECT:
O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS
210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #:LG050055, LG050057, PERMIT #

SEAL:
GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

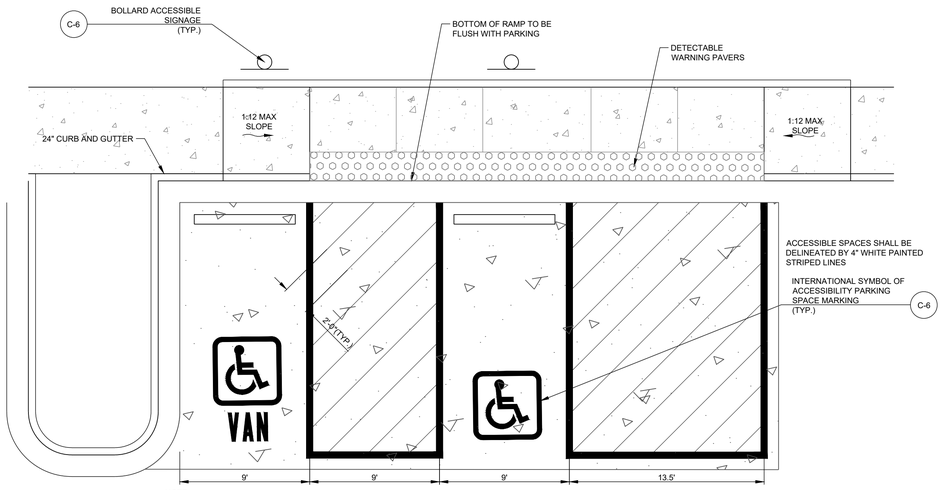
PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

PAVING DETAILS

SHEET NUMBER:
C-5

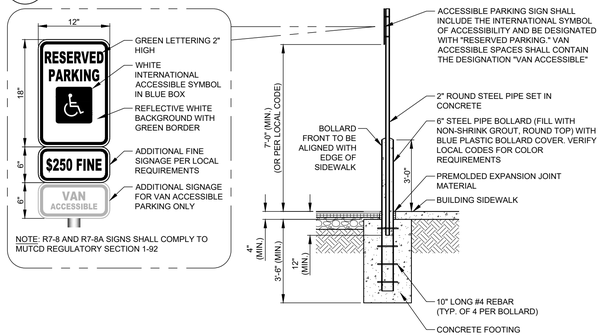
COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
2184.001



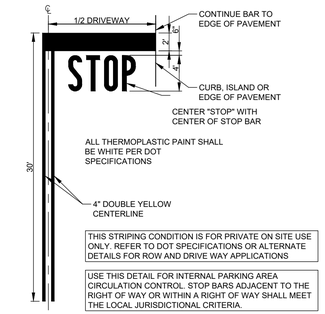
NOTE:
SEE GRADING PLAN FOR ELEVATIONS. ACCESSIBLE SPACES AND LOADING AREAS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION

C-6 ACCESSIBLE PARKING
NOT TO SCALE

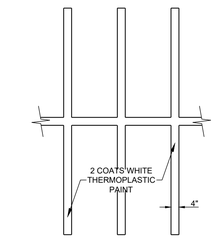


NOTE: R7-8 AND R7-8A SIGNS SHALL COMPLY TO MUTCD REGULATORY SECTION 1-92

C-6 BOLLARD ACCESSIBLE SIGNAGE
NOT TO SCALE

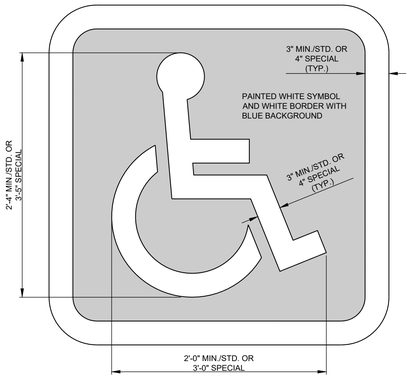


C-6 STOP BAR AND LABEL STRIPING
NOT TO SCALE

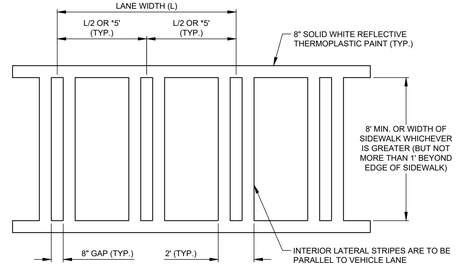


NOTE: SEE SITE PLAN FOR PARKING DIMENSIONS & LAYOUT

C-6 PAVEMENT STRIPING
NOT TO SCALE



C-6 INTERNATIONAL SYMBOL OF ACCESSIBILITY PARKING SPACE MARKING
NOT TO SCALE



* USE WHERE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED

C-6 CROSSWALK STRIPING
NOT TO SCALE

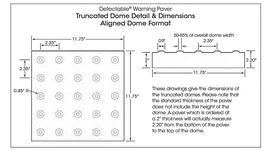
HANOVER® DETECTABLE WARNING® PAVER
Nominal 12" x 12"
11¾" x 11¾" x 2"

Persons with visual impairments depend upon environmental cues of potential hazards — ambient sounds and physical elements that can be sensed by a cane or feature changes underfoot. Pre-existing conditions can also require the use of a detectable warning surface such as the Detectable Warning® Pave the Difference textured walking surface can help to warn pedestrians of an impending hazard on the route ahead.

Stocked Sizes	Stocked Colors
11¾" x 11¾" x 2" 297mm x 297mm x 57mm	Red 15 Charcoal Yellow (M1 07 7)

A nominal 24" x 24" Detectable Warning is also available and stocked in Red 15 and Charcoal.

Please Note: Other sizes and colors are available upon request when quantities permit. Contact a Hanover® Representative for more information.

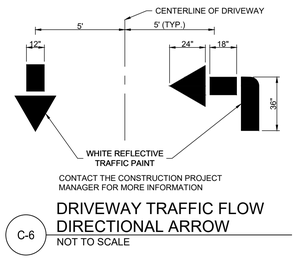


HANOVER® Architectural Products
Hanover, PA 17331-0250
717-637-0500 fax 717-637-7181
www.hanoverpavers.com

2.5.20

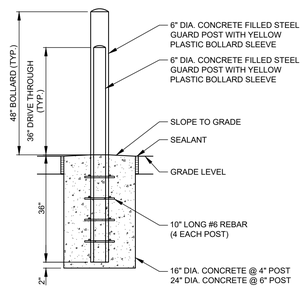
PRODUCT INFO:
MANUFACTURER: HANOVER ARCHITECTURAL PRODUCTS
MODEL: DETECTABLE WARNING PAVER NOMINAL 12" X 12"
FINISH: RED
WWW.HANOVERPAVERS.COM
+1-800-426-4242

C-6 DETECTABLE WARNING PAVER
NOT TO SCALE

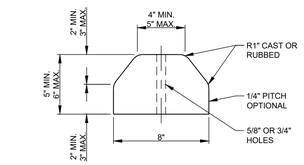


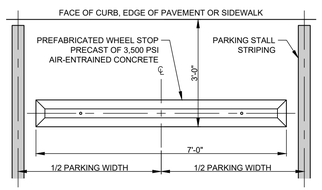
CONTACT THE CONSTRUCTION PROJECT MANAGER FOR MORE INFORMATION

C-6 DRIVEWAY TRAFFIC FLOW DIRECTIONAL ARROW
NOT TO SCALE

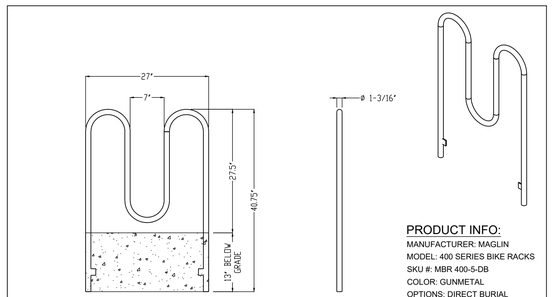


C-6 BOLLARD
NOT TO SCALE





C-6 CONCRETE WHEEL STOP
NOT TO SCALE



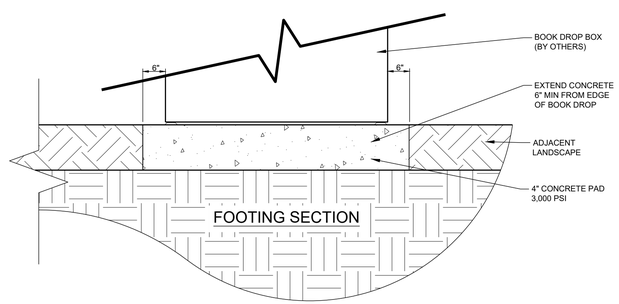
PRODUCT INFO:
MANUFACTURER: MAGLIN
MODEL: 400 SERIES BIKE RACKS
SKU #: MBR 400-5-DB
COLOR: GUNMETAL
OPTIONS: DIRECT BURIAL
WWW.MAGLIN.COM
+1-800-716-5506

MAGLIN
MAGLIN SITE FURNITURE
VAN DYKE ROAD
LEWISBERRY, PA 17339
FAX: 877-268-9393

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAGLIN SITE FURNITURE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAGLIN SITE FURNITURE IS PROHIBITED.

TITLE: 5'LVE RACK, 400, 5-BIKES, DIRECT BURIAL
DRAWN BY: MBR400-5-DB
SCALE: 1:10
WEIGHT: 511 LBS
QUANTITY: 1 EA
DATE: 2019-11-19
SIZE: B
DWG NO: 001

C-6 BIKE RACK
NOT TO SCALE



C-6 CONCRETE PAD FOR BOOK DROP BOX
NOT TO SCALE

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FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:
AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974
CONTACT: STACY BROWN

PROJECT:
O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS
210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057, PERMIT #

SEAL:
GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

CONSTRUCTION DETAILS

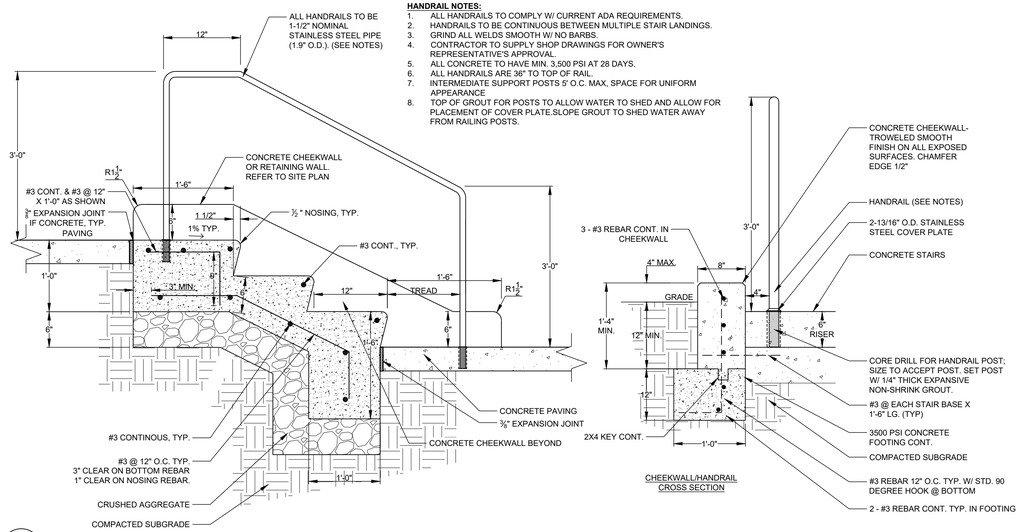
SHEET NUMBER:
C-6

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
2184.001

HANDRAIL NOTES:

1. ALL HANDRAILS TO COMPLY W/ CURRENT ADA REQUIREMENTS.
2. HANDRAILS TO BE CONTINUOUS BETWEEN MULTIPLE STAIR LANDINGS.
3. GRIND ALL WELDS SMOOTH W/ NO BARBS.
4. CONTRACTOR TO SUPPLY SHOP DRAWINGS FOR OWNER'S REPRESENTATIVE'S APPROVAL.
5. ALL CONCRETE TO HAVE MIN. 3,500 PSI AT 28 DAYS.
6. ALL HANDRAILS ARE 36" TO TOP OF RAIL.
7. INTERMEDIATE SUPPORT POSTS 5' O.C. MAX, SPACE FOR UNIFORM APPEARANCE
8. TOP OF GROUT FOR POSTS TO ALLOW WATER TO SHED AND ALLOW FOR PLACEMENT OF COVER PLATE.SLOPE GROUT TO SHED WATER AWAY FROM RAILING POSTS.

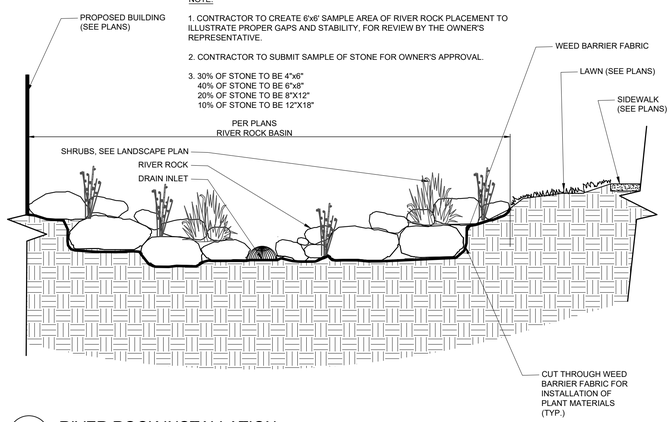


CHEEKWALL/HANDRAIL CROSS SECTION

C-6.1 CONCRETE STEPS WITH CHEEKWALL & HANDRAIL
NOT TO SCALE

NOTE:

1. CONTRACTOR TO CREATE 6'x6' SAMPLE AREA OF RIVER ROCK PLACEMENT TO ILLUSTRATE PROPER GAPS AND STABILITY, FOR REVIEW BY THE OWNER'S REPRESENTATIVE.
2. CONTRACTOR TO SUBMIT SAMPLE OF STONE FOR OWNER'S APPROVAL.
3. 30% OF STONE TO BE 4"x6"
   40% OF STONE TO BE 6"x8"
   20% OF STONE TO BE 8"X12"
   10% OF STONE TO BE 12"X18"

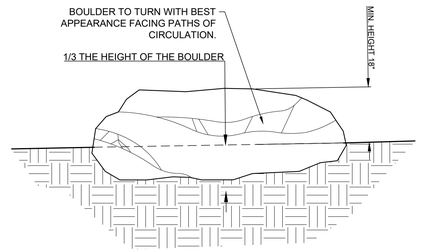


C-6.1 RIVER ROCK INSTALLATION
NOT TO SCALE

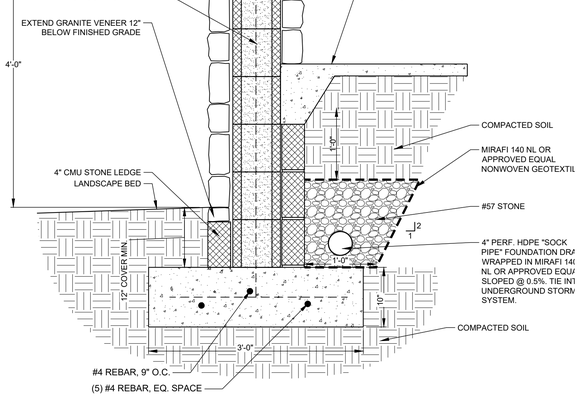
NOTE:

1. LANDSCAPE BOULDERS MAY BE WITH ROUNDED EDGES INDICATING A WEATHERED APPEARANCE. EXPOSED FACES MAY NOT BE SPLITFACED OR WORKED TO ACHIEVE A WEATHERED LOOK.
2. BOULDER WEIGHTS AND SIZES ARE APPROXIMATE.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING PLACEMENT OF ALL BOULDERS. THE BOULDER CONFIGURATION MUST BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. AREAS TO RECEIVE BOULDERS SHALL BE FREE OF DEBRIS OR OTHER OBJECTIONABLE MATERIAL.
5. REFER TO SITE PLAN FOR BOULDER LOCATIONS.

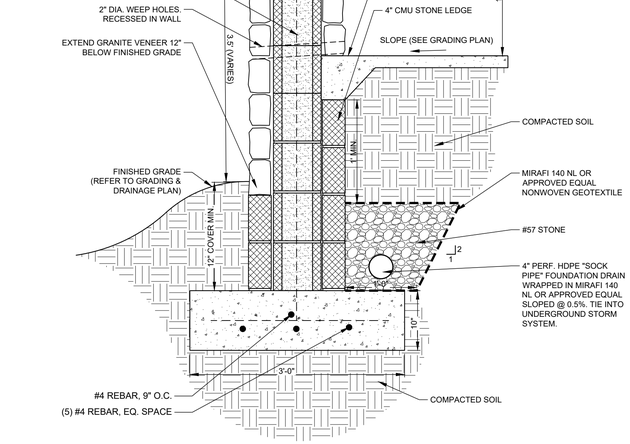
NAME	ROCK WEIGHT	ROCK SIZE
TWO MAN	50-200 LBS.	12" - 24"
THREE MAN	200-300 LBS.	24"-36"
LARGE	300-800 LBS.	36"-48"
SPECIMEN	800+ LBS.	>48"



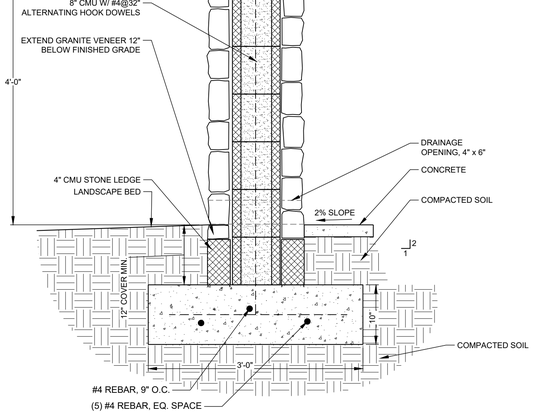
C-6.1 BOULDER INSTALLATION
NOT TO SCALE



C-6.1 GRANITE VENEER MONUMENT SIGN
NOT TO SCALE

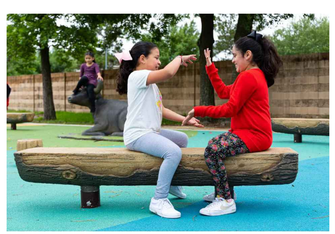


C-6.1 GRANITE VENEERED SEAT WALL
NOT TO SCALE



SECTION

C-6.1 FREE STANDING GRANITE WALL
NOT TO SCALE



PRODUCT INFO:
LOG BENCH
MODEL #: 173595
DIMENSIONS: 72" L x 16" W

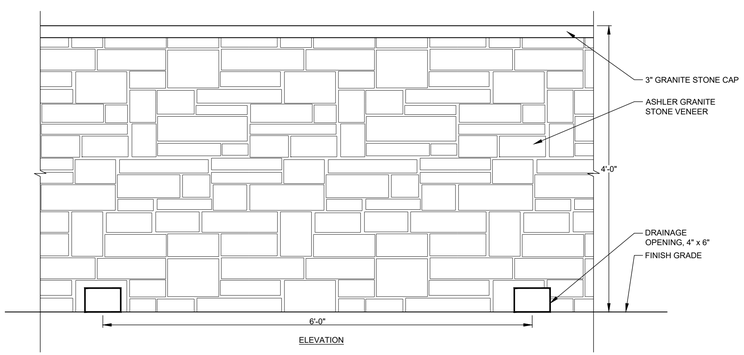
MANUFACTURER: LANDSCAPE STRUCTURES
WEBSITE: WWW.PLAYLSI.COM
CONTACT: PLAYGROUND CREATIONS
WWW.PLAYGROUNDCREATIONS.COM
DUSTIN GRAHAM
678-904-4080

C-6.1 LOG BENCH
NOT TO SCALE

PRODUCT INFO:
LOG STEPPER
MODEL #: 185861
HEIGHTS: 8", AND 18"

MANUFACTURER: LANDSCAPE STRUCTURES
WEBSITE: WWW.PLAYLSI.COM
CONTACT: PLAYGROUND CREATIONS
WWW.PLAYGROUNDCREATIONS.COM
DUSTIN GRAHAM
678-904-4080

C-6.1 LOG STEPPERS
NOT TO SCALE



ELEVATION

C-6.1 FREE STANDING GRANITE WALL
NOT TO SCALE

ENGINEER:
FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:
AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974
CONTACT: STACY BROWN

PROJECT:
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CONSTRUCTION DOCUMENTS
210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4
PARCEL #LG050055, LG050057, PERMIT #

SEAL:

GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
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C. CONSTRUCTION DOCS PRICING	2024.06.28

PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

CONSTRUCTION DETAILS

SHEET NUMBER:
C-6.1

COMMENTS:
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JOB/FILE NUMBER:
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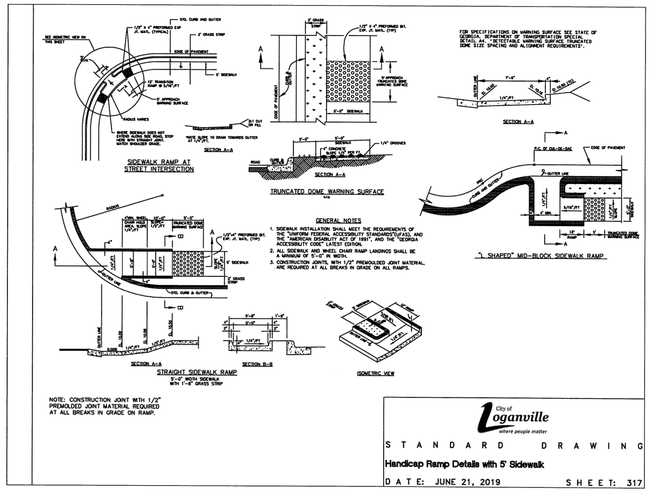
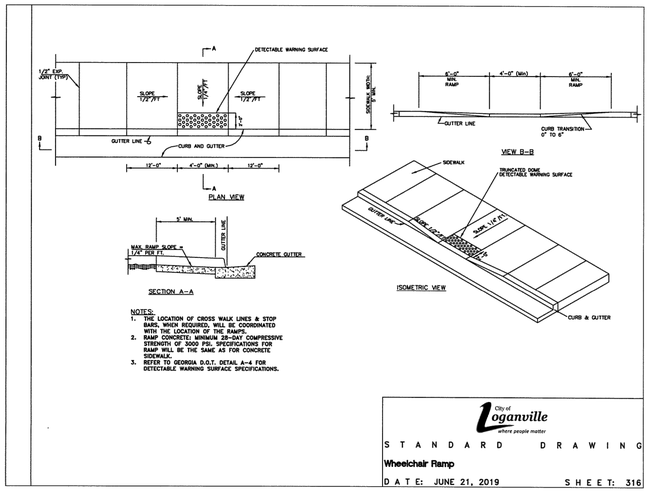
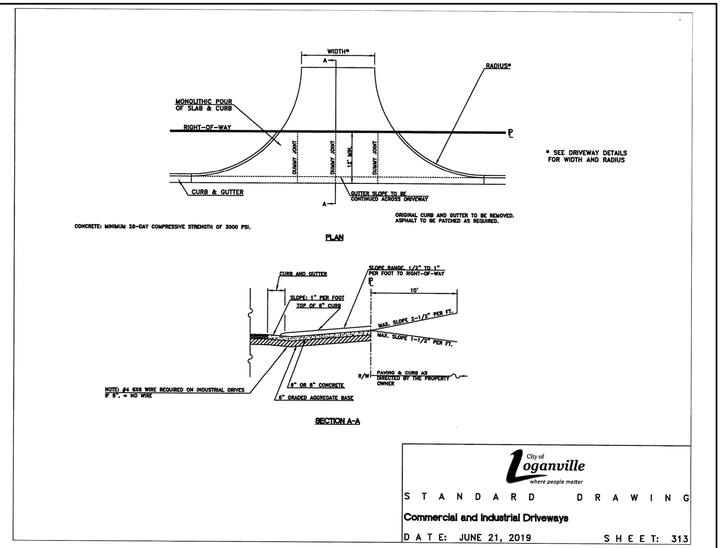


C-6.2 ADA RAMPS
NOT TO SCALE



C-6.2 COMMERCIAL DRIVEWAY
NOT TO SCALE



ENGINEER:
FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

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AZALEA REGIONAL LIBRARY SYSTEM
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(706) 342-4974
CONTACT: STACY BROWN

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PARCEL #:LG050055, LG050057, PERMIT #

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PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

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C. CONSTRUCTION DOCS PRICING	2024.06.28

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DRAWING BY:	JMB
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TITLE:	

CONSTRUCTION DETAILS

SHEET NUMBER:
C-6.2

COMMENTS:
NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER:
2184.001

GEORGIA811 Utilities Protection Center, Inc.
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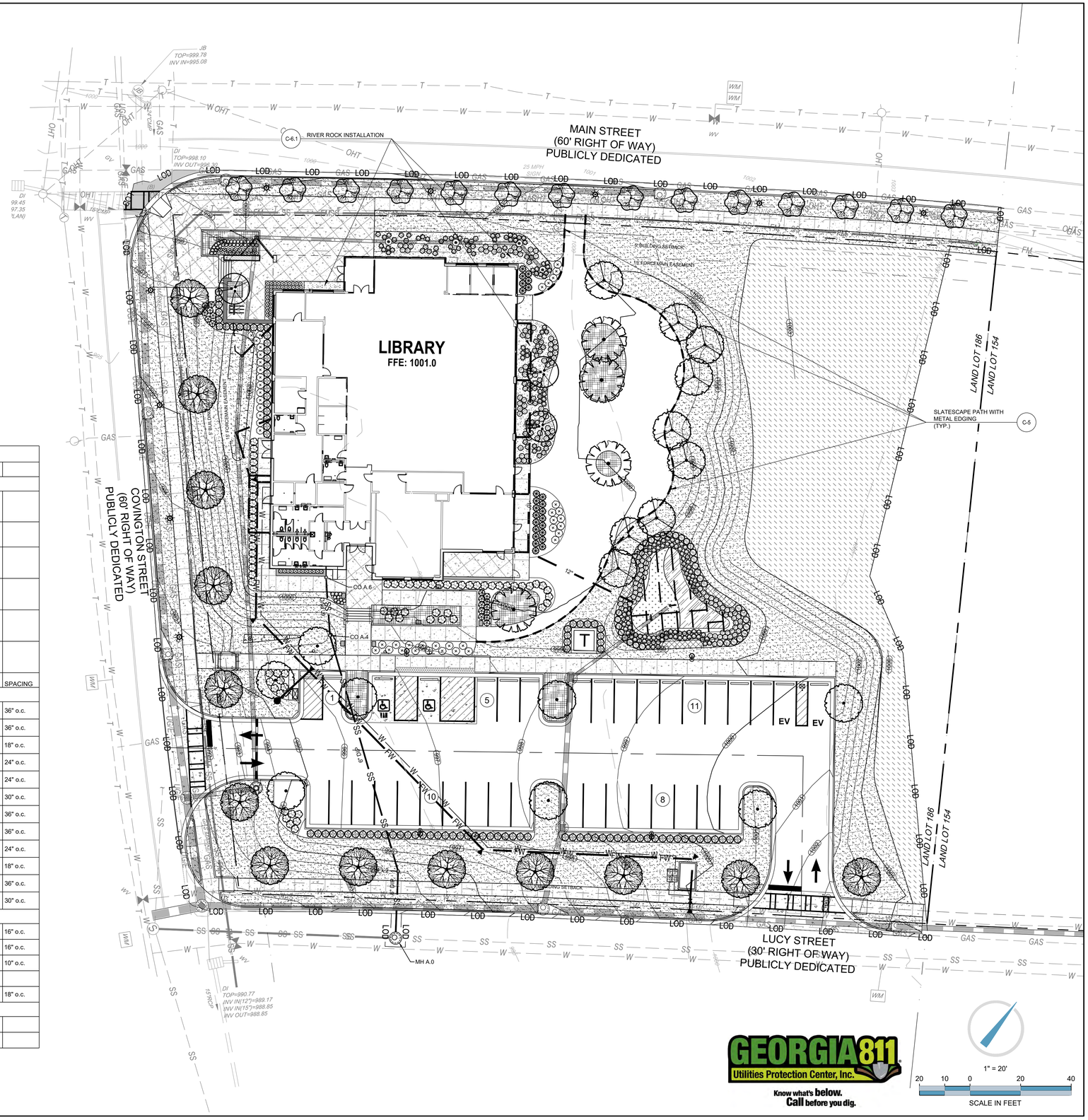
GENERAL LANDSCAPE NOTES:

1. WARRANTY: ALL PLANTS SHALL BE WARRANTED TO REMAIN ALIVE, HEALTHY, AND IN THRIVING CONDITION FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE
2. PLANTS SHALL MEET DOT SPECIFICATIONS AND AMERICAN STANDARD FOR NURSERY STOCK STANDARDS.
3. PLANTS SHALL BE SPECIMEN QUALITY. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF.
4. HEIGHT AND SPREAD DIMENSIONS SPECIFIED REFER TO THE MAIN BODY OF THE PLANT AND NOT FROM BRANCH TIP TO TIP. IF A RANGE OF SIZE IS GIVEN, NO PLANT SHALL BE AS LARGE AS THE MAXIMUM SIZE SPECIFIED.
5. SHADE TREES SHALL BE STRAIGHT UNLESS OTHERWISE SPECIFIED
6. PLANTS SHALL BE SUBJECT TO REVIEW BY LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT SHALL BE THE SOLE JUDGE OF THE QUALITY AND ACCEPTABILITY OF MATERIALS AND PLACEMENT.
7. PLACE PLANTS UPRIGHT AND TURNED SO THAT THE MOST ATTRACTIVE SIDE IS VIEWED.
8. BE FAMILIAR WITH UNDERGROUND UTILITIES BEFORE DIGGING. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGE OF UTILITY LINES.
9. PROVIDE SHOVEL-CUT TRENCH AT SHRUB BEDS IN LAWN AREAS UNLESS OTHERWISE NOTED.
10. PROVIDE 3" THICKNESS MULCH AT ALL PLANTS AND PLANTING BEDS. MULCH MUST BE 3" THICK AT TIME OF FINAL WALK-THROUGH. MULCH IN SHRUB AND TREE PLANTING BEDS SHALL BE PINE STRAW UNLESS OTHERWISE NOTED. MULCH IN GROUNDCOVER BEDS TO BE SHREDDED HARDWOOD UNLESS OTHERWISE NOTED. MULCH SAMPLE IS TO BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION. MULCH IS TO BE REPLACED AT CONTRACTOR'S OWN EXPENSE IF LAID PRIOR TO APPROVAL.
11. MAINTENANCE WORK SHALL BE PERFORMED UNTIL DATE OF FINAL ACCEPTANCE BY OWNER'S REPRESENTATIVE.
12. CONTRACTOR'S PRICES SHALL INCLUDE ALL LABOR AND MATERIAL NECESSARY TO COMPLETE THE WORK, I.E. MULCH, PLANTING, SOIL MIX, WOOD AND WIRE STAKING MATERIAL, ETC.
13. QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWING SHALL BE FURNISHED. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE OWNER'S REPRESENTATIVE ASSUMES NO LIABILITY FOR OMISSION OR ERRORS. HIS ESTIMATES ARE ONLY AN AID FOR CLARIFICATION OF UNITS AND A CHECK FOR THE CONTRACTOR TO COMPARE WITH HIS OWN ESTIMATES. DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF OWNER'S REPRESENTATIVE. NO EXTRA COMPENSATION SHALL BE ALLOWED FOR EXTRA QUANTITIES NECESSARY TO COMPLETE THE WORK.
14. WHERE LANDSCAPING AREAS ADJOIN GRASSED RIGHTS-OF-WAY, SUCH AREAS SHALL BE CONSIDERED PART OF THE LANDSCAPED AREA FOR PURPOSES OF MAINTENANCE. AS OF COMPLETION OF SITE IMPROVEMENTS, THE PROPERTY OWNER SHALL HAVE AN IMPLIED EASEMENT OF THE RIGHT-OF-WAY EXTENDING FROM THE SITE TO THE ROAD PAVEMENT IN ORDER TO COMPLETE THE REQUIRED MAINTENANCE.
15. SEE SHEET I-1 FOR IRRIGATION PLANS AND DETAILS.

CRITICAL NOTE:
LANDSCAPE PLAN INDICATES DIAGRAMMATIC LOCATIONS ONLY. PLANTS ARE TO BE BROUGHT TO THE SITE AND SET IN GENERAL LOCATION, (NOT INSTALLED), AS INDICATED ON THE LANDSCAPE PLAN(S). LANDSCAPE ARCHITECT TO APPROVE PLANT LAYOUT PRIOR TO ACTUAL INSTALLATION. **IF PLANTS ARE INSTALLED PRIOR TO LANDSCAPE ARCHITECT'S REVIEW, ALL PLANTS WILL HAVE TO BE REPLANTED AT NO ADDITIONAL COSTS TO THE OWNER.** CONTRACTOR TO COORDINATE SCHEDULE FOR REVIEW WITH LANDSCAPE ARCHITECT (48 HOUR NOTICE MINIMUM). **NO PORTION OF THE CONTRACTOR'S PAY APPLICATION WILL BE APPROVED FOR LANDSCAPING UNTIL THE LANDSCAPE ARCHITECT HAS SIGNED OFF ON THE PLANT INSTALLATION.**

PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	CAL	
TREES					
	3	CARPINUS CAROLINIANA VIRGINIANA / AMERICAN HORNBEAM	B & B	2" CAL	
	14	LAGERSTROEMIA X `NATCHEZ` / CRAPE MYRTLE	B & B	2"CAL	
	4	LIRIODENDRON TULIPIFERA / TULIP TREE	B & B	3"CAL	
	9	QUERCUS PHELLOS / WILLOW OAK	B & B	3"CAL	
	8	QUERCUS SHUMARDII / SHUMARD RED OAK	B & B	3"CAL	
	13	ULMUS AMERICANA `PRINCETON` / AMERICAN ELM	B & B	3"CAL	
SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPACING
SHRUBS					
+	44	ABELIA X GRANDIFLORA `EDWARD GOUCHER` / GLOSSY ABELIA	3 GAL		36" o.c.
AA	72	AZALEA X 'CONLER' / AUTUMN RUBY® ENCORE® AZALEA	3 GAL		36" o.c.
+	69	BUXUS SINICA INSULARIS 'WINTERGREEN' / WINTERGREEN KOREAN BOXWOOD	3 GAL		18" o.c.
CA	46	CAREX ALBICANS / WHITE-TINGED SEDGE	1 GAL		24" o.c.
C	144	CAREX CHEROKEENSIS / CHEROKEE SEDGE	1 GAL		24" o.c.
	18	HYDRANGEA PANICULATA 'JANE' / LITTLE LIME® PANICLE HYDRANGEA	3 GAL		30" o.c.
	93	ILEX CORNUTA `NEEDLEPOINT` / NEEDLEPOINT HOLLY	3 GAL		36" o.c.
	24	ILEX GLABRA / INKBERRY HOLLY	3 GAL		36" o.c.
	152	JUNCUS EFFUSUS / SOFT RUSH	1 GAL		24" o.c.
LU	40	LOROPETALUM CHINENSE RUBRUM 'PIILC-III' / PURPLE DAYDREAM® DWARF LOROPETALUM	3 GAL		18" o.c.
MD	15	MYRICA CERIFERA 'DON'S DWARF' / DON'S DWARF WAX MYRTLE	3 GAL		36" o.c.
PD	18	PANICUM VIRGATUM 'DALLAS BLUES' / DALLAS BLUES SWITCH GRASS	1 GAL		30" o.c.
GROUND COVERS					
	216	CHELONE GLABRA / WHITE TURTLEHEAD	4"POT		16" o.c.
	182	IRIS VIRGINICA / BLUE FLAG IRIS	4"POT		16" o.c.
	2,072	LIRIOPE SPICATA / CREEPING LILY TURF	4"POT		10" o.c.
	1,576 SF	RIVER ROCK	ROCK		
	66	SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM	1 GAL		18" o.c.
SOD/SEED					
	25,594 SF	CYNODON DACTYLON `TIF 419` / BERMUDA GRASS	SOD		
	10,128 SF	SEEDING	SEED		



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ENGINEER:
FORESITE group
Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092
o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:
AZALEA REGIONAL LIBRARY SYSTEM
1121 EAST AVENUE
MADISON, GA 30650
(706) 342-4974
CONTACT: STACY BROWN

PROJECT:
O'KELLY MEMORIAL LIBRARY
CONSTRUCTION DOCUMENTS
210 MAIN STREET
LOGANVILLE, GA. 30052
LL 154, 186; DISTRICT 4

SEAL:
GEORGIA II LEVEL CERTIFIED
PROFESSIONAL # 0000077160
EXPIRATION DATE: 08/28/2027

REVISIONS	DATE
A. SCHEMATIC DESIGN	2024.01.17
B. DESIGN DEVELOPMENT	2024.04.10
C. CONSTRUCTION DOCS PRICING	2024.06.28

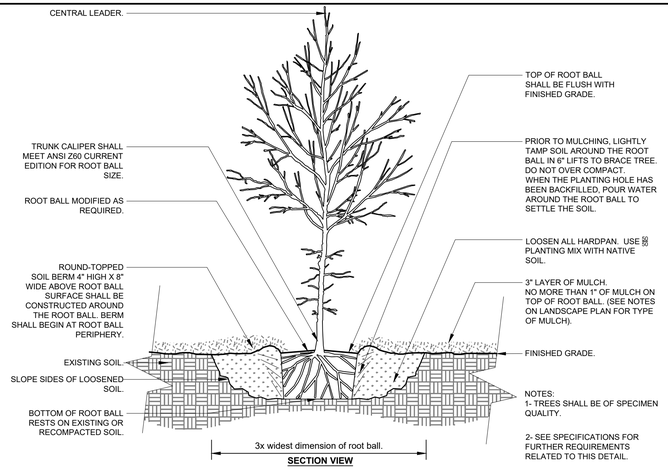
PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	1" = 20'
TITLE:	

LANDSCAPE PLAN

SHEET NUMBER: L-1

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001



4 TREE PLANTING

1/2" = 1'-0"

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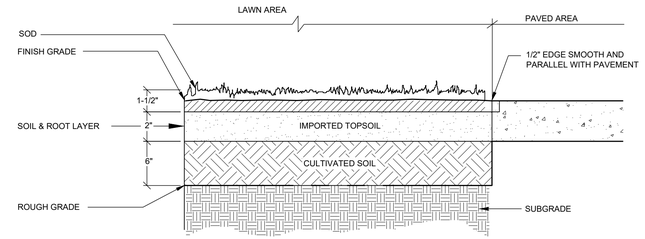

SODDING PROCEDURE:
1. PREPARE FINISH GRADE (AS PER SPECIFICATIONS)
2. APPLY LIME & FERTILIZER & ROTO-TIL (AS PER SOIL TEST)
3. LAY SOD & WATER THOROUGHLY

NOTE: INSTALL SOD SO THAT TOP OF SOIL AND ROOT LAYER IS LEVEL WITH TOP OF PAVEMENT.

1 SOD INSTALLATION

NOT TO SCALE

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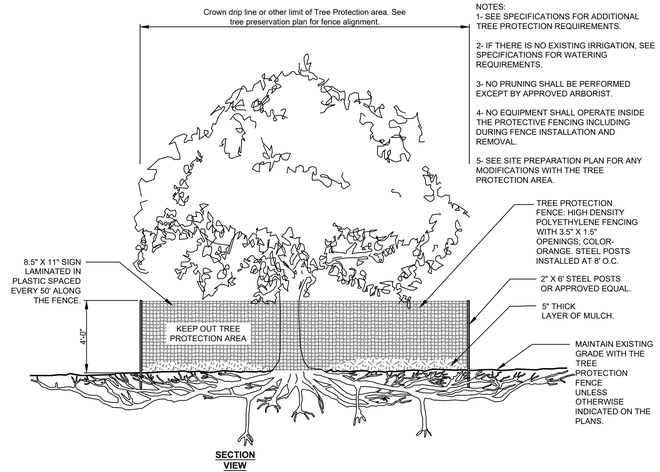
0002-01



NOTES:
1- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.

2- IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.

3- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.

4- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.

5- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

5 TREE PROTECTION

1/4" = 1'-0"

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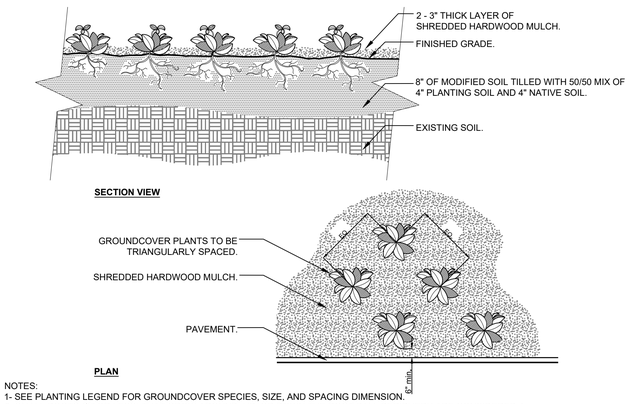

NOTES:
1- SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSION.
2- SMALL ROOTS (½" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPERHY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL).
3- SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.

2 GROUNDCOVER

3/4" = 1'-0"

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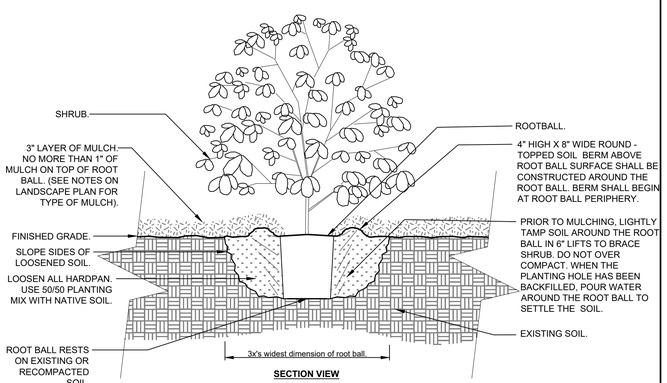

NOTES:
1- SHRUBS SHALL BE OF SPECIMEN QUALITY.

2- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

3 SHRUB PLANTING

3/4" = 1'-0"

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0001-01

ENGINEER:

FORESITE group

Foresite Group, LLC
3740 Davinci Ct.
Suite 100
Peachtree Corners, GA 30092

o | 770.368.1399
f | 770.368.1944
w | www.foresitegroup.net

DEVELOPER:

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A. SCHEMATIC DESIGN	2024.01.17
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PROJECT MANAGER:	JMB
DRAWING BY:	JMB
JURISDICTION:	LOGANVILLE, GA
DATE:	2024.04.12
SCALE:	AS SHOWN
TITLE:	

LANDSCAPE DETAILS

SHEET NUMBER:

L-2

COMMENTS: NOT RELEASED FOR CONSTRUCTION

JOB/FILE NUMBER: 2184.001

CODE AND DESIGN CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
   - INTERNATIONAL BUILDING CODE, 2018 EDITION WITH GEORGIA STATE AMENDMENTS
2. STRUCTURE RISK CATEGORY
   - RISK CATEGORY III
3. GRAVITY LOADS
   - 3.1. ROOF DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):
     - ROOFING & INSULATION 5.0 PSF
     - SOLAR PANELS (WHERE APPLICABLE) 5.0 PSF
     - MEP ALLOWANCE 5.0 PSF
     - CEILING ALLOWANCE 2.0 PSF
     - MISCELLANEOUS 5.0 PSF
     - MAXIMUM DEAD LOAD USED FOR UPLIFT 15.0 PSF
   - 3.2. UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
     - GENERAL AREA 100 PSF
     - FOLDING PARTITIONS PER MANUFACTURER SPECIFICATIONS
   - 3.3. CONCENTRATED FLOOR LIVE LOADS (DISTRIBUTED OVER AN AREA OF 2-1/2 FEET X 2-1/2 FEET, UNLESS NOTED OTHERWISE):
     - SCHOOL 1000 LB
     - LIBRARY 1000 LB
   - 3.4. UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
     - ROOF 20 PSF
4. ROOF SNOW LOAD DATA
   - GROUND SNOW LOAD P_g = 5.0 PSF
5. ROOF RAIN LOAD DATA
   - 15-MINUTE DURATION / 100-YEAR RAINFALL I_{15} = 7.42 INCHES/HOUR
   - 60-MINUTE DURATION / 100-YEAR RAINFALL I_{60} = 3.48 INCHES/HOUR
6. WIND DESIGN DATA
   - BASIC DESIGN WIND SPEED V = 114 MILES/HOUR
   - ALLOWABLE STRESS DESIGN WIND SPEED V_{ASD} = 89 MILES/HOUR
   - WIND EXPOSURE EXPOSURE B
   - INTERNAL PRESSURE COEFFICIENT GC_{pi} = +/- 0.18
   - COMPONENTS AND CLADDING DESIGN WIND PRESSURES
     - ROOF
       - ZONE 1 XX.X PSF / XX.X PSF
       - ZONE 2 XX.X PSF / XX.X PSF
       - ZONE 3 XX.X PSF / XX.X PSF
     - ROOF OVERHANGS
       - ZONE 1 XX.X PSF / XX.X PSF
       - ZONE 2 XX.X PSF / XX.X PSF
       - ZONE 3 XX.X PSF / XX.X PSF
     - WALLS
       - ZONE 4 XX.X PSF / XX.X PSF
       - ZONE 5 XX.X PSF / XX.X PSF
     - PARAPETS
       - ZONE 4 XX.X PSF / XX.X PSF
       - ZONE 5 XX.X PSF / XX.X PSF
     - POSITIVE PRESSURES INDICATE WIND LOADING TOWARD THE SURFACE. NEGATIVE PRESSURES INDICATE WIND LOADING AWAY FROM THE SURFACE.
     - COMPONENTS AND CLADDING WIND PRESSURES LISTED ABOVE ARE BASED UPON CHOOSE A ROOF FIGURE (ROOF) AND CHOOSE A WALL FIGURE (WALL) OF ASCE 7-16 USING A WIDTH OF PRESSURE COEFFICIENT ZONE (a) OF 'X-X' AND AN EFFECTIVE WIND AREA OF 10 SQUARE FEET.
7. EARTHQUAKE DESIGN DATA
   - SEISMIC IMPORTANCE FACTOR I_e = 1.25
   - MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
     - 0.2-SECOND PERIOD S_S = .185
     - 1.0-SECOND PERIOD S_1 = .084
   - SITE CLASS SITE CLASS D (ASSUMED DEFAULT)
   - DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
     - 0.2-SECOND PERIOD S_{DS} = .197
     - 1.0-SECOND PERIOD S_{D1} = .135
   - SEISMIC DESIGN CATEGORY SDC C
   - NORTH-SOUTH DIRECTION
     - BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
       - RESPONSE MODIFICATION COEFFICIENT R = 3.0
     - SEISMIC RESPONSE COEFFICIENTS CS = 0.066
     - DESIGN BASE SHEAR V = 50 KIPS
   - EAST-WEST DIRECTION
     - BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
       - RESPONSE MODIFICATION COEFFICIENT R = 3.0
     - SEISMIC RESPONSE COEFFICIENTS CS = 0.066
     - DESIGN BASE SHEAR V = 50 KIPS
   - ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE ANALYSIS
8. DEFLECTION CRITERIA
   - 8.1. UNLESS NOTED OTHERWISE, CALCULATED INDIVIDUAL MEMBER DEFLECTIONS DO NOT EXCEED FOLLOWING LIMITS:
     - ROOF MEMBERS
       - DEAD LOAD L/360
       - LIVE LOAD L/360
       - DEAD + LIVE LOAD L/240
     - MEMBERS SUPPORTING MASONRY:
       - THE CALCULATED DEFLECTION FOR INDIVIDUAL MEMBERS SUPPORTING MASONRY DO NOT EXCEED L/600 FOR DESIGN LOADS APPLIED AFTER THE INSTALLATION OF THE MASONRY.
     - WHERE L EQUALS THE SPAN LENGTH IN INCHES BETWEEN SUPPORTS (FOR CANTILEVERS, L EQUALS TWICE THE LENGTH OF THE CANTILEVER). NOTE THAT THE TOTAL MAXIMUM CALCULATED FLOOR SYSTEM DEFLECTION WILL BE THE SUM OF THE DEFLECTIONS OF THE SUPPORTED ELEMENTS IN A BAY.
   - 8.2. DELEGATED DESIGN ITEMS AND NON-STRUCTURAL ITEMS MUST BE DESIGNED TO ACCOMMODATE THE CALCULATED DEFLECTIONS LISTED ABOVE.
9. FUTURE STRUCTURE EXPANSION
   - HORIZONTAL: NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL EXPANSION.
   - VERTICAL: NO PROVISIONS HAVE BEEN MADE FOR FUTURE VERTICAL EXPANSION.

GENERAL

1. 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.
2. THE 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.
3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR REFERENCE 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.
4. THE 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. THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND CIVIL DOCUMENTS. THE DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE THE ARCHITECTURAL DRAWINGS.
7. THE CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, MEMBER SIZES, AND SITE CONDITIONS BEFORE STARTING WORK. THE DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.
8. THE CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES, AND OPENING LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL EQUIPMENT DIMENSIONS AND WEIGHTS WITH THE EQUIPMENT VENDOR. NOTIFY THE DESIGN PROFESSIONAL OF ANY DISCREPANCY.
9. THE 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. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIMENSIONS AND WEIGHTS WITH THE VENDOR.
10. ALL EDGE OF SLAB AND EDGE OF PLATE DIMENSIONS ARE PROVIDED ON THE EDGE OF SLAB PLANS. THESE DRAWINGS ARE PROVIDED FOR INFORMATION ONLY. ALL DIMENSIONAL INFORMATION SHOULD BE COORDINATED WITH THE ARCHITECTURAL DOCUMENTS AND VENDOR DRAWINGS.
11. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIMENSIONS, LOCATIONS, AND DEPTHS OF SLAB RECESSES WITH ARCHITECTURAL DRAWINGS, INTERIOR DRAWINGS, AND PRODUCT MANUFACTURERS.
12. ELEVATOR OPENING AND ELEVATOR PIT LOCATIONS, ELEVATIONS, AND DIMENSIONS SHALL BE VERIFIED WITH THE ELEVATOR MANUFACTURER BEFORE CONSTRUCTION.
13. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
14. 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.
15. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
16. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE USE OF CONSTRUCTION EQUIPMENT ON THE STRUCTURE. ANY DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT SHALL BE REPAIRED.
17. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. THE 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. THE CONTRACTOR IS REQUIRED TO REVIEW SHOP DRAWINGS AND COORDINATE WITH OTHER TRADES BEFORE SENDING THE SHOP DRAWINGS FOR REVIEW BY THE DESIGN PROFESSIONAL.
18. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
19. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED.
20. THE STRUCTURAL DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR THE DESIGN AND CONNECTIONS OF DEFERRED DELEGATED DESIGN ITEMS OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS. DEFERRED SUBMITTALS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION.
21. DEFERRED DELEGATED DESIGN ITEMS / DEFERRED SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING UNLESS SPECIFICALLY NOTED OTHERWISE:
    - PR
    - STRUCTURAL STEEL CONNECTIONS
    - STRUCTURAL STEEL JOISTS
    - STEEL STAIRS AND STAIR LANDINGS
    - COLD-FORMED METAL FRAMING
    - CANOPIES & SUNSHADES
    - HANDRAILS AND CONNECTIONS
    - STOREFRONT / CURTAIN WALL SYSTEMS AND CONNECTIONS
    - SUPPORT AND FASTENING FOR MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS
    - SEISMIC BRACING FOR MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS
    - SPECIALTY EQUIPMENT SKIDS
22. ITEMS OF ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING EQUIPMENT AND COMPONENTS INCORPORATED OR INSTALLED IN OR ON THE BUILDING SHALL BE FABRICATED AND INSTALLED TO RESIST VERTICAL LOADS AND LATERAL FORCES DETERMINED BY THE APPLICABLE BUILDING CODE. SEISMIC BRACING AND ANCHORAGE OF NON-STRUCTURAL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS IS REQUIRED BY THE APPLICABLE BUILDING CODE. THE STRUCTURAL DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR THE DESIGN OR REVIEW OF SEISMIC BRACING, RESTRAINTS, ANCHORAGE, AND CONNECTIONS FOR ARCHITECTURAL, ELECTRICAL, MECHANICAL, OR PLUMBING COMPONENTS IN THE STRUCTURE. THE DESIGN OF SEISMIC BRACING, RESTRAINTS, ANCHORAGE, AND CONNECTIONS FOR THESE COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR, VENDOR, OR AS INDICATED IN THE CORRESPONDING DISCIPLINE'S CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUBMIT CERTIFICATION DOCUMENTS OR SIGNED AND SEALED CALCULATIONS, AS INDICATED IN THE SPECIFICATIONS AND THE APPLICABLE BUILDING CODE. PROJECT-SPECIFIC DESIGN DOCUMENTATION, AND MANUFACTURER'S CERTIFICATION SHALL BE AS REQUIRED BY THE APPLICABLE BUILDING CODE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FOUNDATION

1. ALL FOUNDATIONS SHALL BE INSTALLED UNDER THE GUIDANCE OF A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER IN THE PROJECT STATE. THE GEOTECHNICAL ENGINEER SHALL CONSIDER THE TYPE OF BUILDING AND FOUNDATION LOADS INVOLVED, AS WELL AS THE REQUIREMENTS OF THESE DOCUMENTS. THE DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED FOR DESIGN.
2. INDIVIDUAL SPREAD FOOTINGS, CONTINUOUS SPREAD FOOTINGS, TURNED DOWN SLAB EDGES, AND MAT FOUNDATIONS (ELEVATOR PITS) SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 1500 PSF.
   - 2.1. NO FOOTINGS SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW THE BOTTOM-OF-FOOTING AND REPLACE WITH STRUCTURAL FILL.
3. EARTH-RETAINING FOUNDATIONS AND WALLS ARE DESIGNED FOR THE FOLLOWING NOMINAL SOIL CRITERIA:
   - ALLOWABLE SOIL BEARING PRESSURE 1500 PSF
   - EQUIVALENT LATERAL FLUID PRESSURE — ACTIVE CASE 43 PSF/FT
   - EQUIVALENT LATERAL FLUID PRESSURE — AT-REST CASE 64 PSF/FT
   - EQUIVALENT LATERAL FLUID PRESSURE — PASSIVE CASE 332 PSF/FT
   - COEFFICIENT OF SLIDING FRICTION 0.30
   - FINE-GRAINED MATERIAL (SILT/CLAY) SHALL NOT BE USED AS FOUNDATION WALL BACKFILL MATERIAL. SEE SPECIFICATIONS FOR FOUNDATION WALL BACKFILL REQUIREMENTS.
   - PROVIDE GEOTEXTILE FABRIC AGAINST UNDISTURBED SOIL SLOPE BEFORE BACKFILLING.
   - ALL FOUNDATION WALLS SHALL BE PROPERLY DRAINED; SEE PLUMBING AND CIVIL DOCUMENTS FOR FOUNDATION DRAIN REQUIREMENTS.
4. CLEAR SUBGRADE BY STRIPPING ALL VEGETATION, TOPSOIL, ORGANIC SOILS, UNSTABLE FILL, LOOSE ROCK FRAGMENTS GREATER THAN 6 INCHES IN DIAMETER, DEMOLITION DEBRIS, AND OTHER DEBRIS. UNSUITABLE EXISTING FILL AND MATERIALS (AS DETERMINED BY A QUALIFIED REPRESENTATIVE OF THE INDEPENDENT TESTING AGENCY) SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
5. PROOF ROLL THE BUILDING AREA AFTER STRIPPING OPERATIONS AND EXCAVATIONS TO PLANNED SUBGRADE ARE COMPLETE. PROOF ROLL THE BUILDING AREA WITH TWO COMPLETE COVERAGES (MINIMUM) OF A FULLY-LOADED, TANDEM AXLE DUMP TRUCK, OR SCRAPPER (25 TON MINIMUM.) PROOF ROLLING OPERATIONS SHALL BE REVIEWED AND CONDUCTED UNDER THE DIRECTION OF A QUALIFIED REPRESENTATIVE OF THE INDEPENDENT TESTING AGENCY. SOFT SOILS, SOILS THAT DISPLAY PUMPING, AND OTHER SOILS JUDGED UNSATISFACTORY BY THE REPRESENTATIVE OF THE STRUCTURAL TESTING/INSPECTION AGENCY SHALL BE UNDERCUT AND REPLACED WITH COMPACTED STRUCTURAL FILL OR REMEDIATED ACCORDING TO THE REPRESENTATIVE'S RECOMMENDATIONS AND THE REQUIREMENTS OF THE SPECIFICATIONS. AREAS RECEIVING STRUCTURAL FILL SHALL BE PROOF ROLLED BEFORE PLACEMENT OF THE FILL.
6. DENSIFY BUILDING AREAS AND A MINIMUM OF 15'-0" OUTSIDE THE BUILDING PERIMETER USING A VIBRATORY ROLLER (SEE SPECIFICATIONS).
7. UNDERCUT THE ENTIRE BUILDING AREA TO THE EXTENT SHOWN ON THE STRUCTURAL DOCUMENTS AND REPLACE REMOVED MATERIAL WITH COMPACTED STRUCTURAL FILL AS REQUIRED BY THE SPECIFICATIONS.
8. STRUCTURAL FILL SHALL CONTAIN NO ORGANIC MATERIAL AND BE APPROVED BY A GEOTECHNICAL ENGINEER BEFORE PLACEMENT. STRUCTURAL FILL UNDER SLABS AND WITHIN 10-0" OF THE BUILDING FOOTPRINT SHALL BE PLACED IN LIFTS OF THICKNESS DETERMINED BY THE INDEPENDENT TESTING AGENCY AND COMPACTED TO AT LEAST 98 PERCENT OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698.
   - 8.1. THE TOP 8 INCHES OF SUB-BASE UNDER SLABS ON GRADE SHALL BE COMPACTED TO AT LEAST 98 PERCENT OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. AN INDEPENDENT TESTING LABORATORY SHALL OBSERVE ALL BACKFILL, COMPACTION, AND PROOF ROLLING OPERATIONS.
9. 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).
10. MECHANICAL STABILIZATION OF THE SOILS MAY BE REQUIRED FOR DRYING SATURATED SOILS. MECHANICAL STABILIZATION MAY USE CHEMICAL STABILIZATION (LIME OR FLY-ASH), DISCING, AERATION, AND DRYING. SOILS DEEMED UNSUITABLE SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL.
11. MAINTAIN PROPER DRAINAGE OF THE SITE AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE A SYSTEM FOR CONTROLLING GROUNDWATER TO PRESERVE THE INTEGRITY OF THE FOUNDATION AND BUILDING SUBGRADE. REMEDIAL WORK WILL BE REQUIRED WHERE WATER HAS REDUCED THE INTEGRITY OF THE FOUNDATION AND SUBGRADE SYSTEMS. DO NOT ALLOW WATER TO STAND, POND, OR COLLECT IN THE FOUNDATION EXCAVATIONS, ON FLOOR SLAB AREAS, OR ON PREPARED SUBGRADES DURING OR AFTER CONSTRUCTION.
12. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.
13. THE TIME BETWEEN CONCRETE TRUCK LOADS DURING A CONCRETE PLACEMENT FOR SPREAD FOOTINGS, CONTINUOUS FOOTINGS, PILE CAPS, MATS, GRADE BEAMS, AND TIE BEAMS SHALL NOT CAUSE UNPLANNED COLD JOINTS.
14. ALL FOOTINGS AND TURN DOWN SLAB EDGES SHALL PENETRATE TO A MINIMUM DEPTH OF 12 INCHES BELOW FINISHED GRADE.

CONCRETE FORMWORK

1. THE DESIGN, ERECTION, SUPPORT, AND REMOVAL OF FORMWORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. THE DESIGN, ERECTION, AND REMOVAL OF FORMWORK SHORES AND RESHORES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. DESIGN AND CONSTRUCT FORMWORK IN ACCORDANCE WITH ACI 301 AND ACI 347.
4. SUBMIT SHOP DRAWINGS AND CALCULATIONS TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW PRIOR TO THE ERECTION OF ANY FORMWORK FOR ELEVATED FLOORS. SUBMITTALS SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER LICENSED IN THE PROJECT STATE. REVIEW SHALL BE FOR GENERAL CONFORMANCE AND COORDINATION WITH THE STRUCTURAL DOCUMENTS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN OF FORMWORK, SHORING, AND RESHORING.
   - 4.1. SHOP DRAWINGS SHALL INDICATE THE FOLLOWING MINIMUM INFORMATION:
     - DIMENSIONS
     - FORMWORK CONSTRUCTION
     - SHORING LOCATIONS AND PROCEDURES
     - RESHORING LOCATIONS AND PROCEDURES
     - CHAMFERS
     - EMBEDS AND INSERTS
     - PROPOSED CONSTRUCTION JOINT LOCATIONS
     - CRITERIA FOR FORMWORK, SHORING, AND RESHORING REMOVAL
     - PROCEDURES FOR FORMWORK, SHORING, AND RESHORING REMOVAL
     - THE MINIMUM NUMBER OF DAYS REQUIRED FOR FORMWORK, SHORING, AND RESHORING REMOVAL
5. DO NOT REMOVE FORMWORK, SHORING, OR RESHORING EARLIER THAN RECOMMENDED BY ACI 301 OR ACI 347.
6. THE REMOVAL OF SHORING AND THE PLACEMENT OF RESHORING SHALL BE COMPLETED IN THE SAME DAY (DO NOT LEAVE AREAS WITHOUT SHORING OR AREAS THAT ARE NOT COMPLETED WITH RESHORING OVERNIGHT).
7. EARLY FORMWORK STRIPPING AND IMPROPER RESHORING PROCEDURES MAY LEAD TO EXCESSIVE CONCRETE DEFLECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY REPAIRS OR FLOOR LEVELING.
8. CHAMFER ALL EXPOSED CORNERS ON WALLS, BEAMS, AND COLUMNS.
9. SPLIT, FRAYED, DELAMINATED, OR OFFSET JOINTS ARE NOT ACCEPTABLE FOR CONCRETE SURFACES EXPOSED TO VIEW.
10. RESHORES FOR TWO-WAY CONCRETE SLABS MUST REMAIN IN PLACE A MINIMUM OF 21_DAYS.

REINFORCEMENT

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
2. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064 IN FLAT SHEETS WITH MINIMUM 8 INCH SIDE LAPS AND END LAPS.
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 THE DESIGN PROFESSIONAL.
   - 4.1. PROVIDE MECHANICAL COUPLERS FOR ALL TENSION LAP SPLICES WITH #14 AND GREATER BARS. ALL MECHANICAL COUPLERS SHALL BE CAPABLE OF DEVELOPING 125 PERCENT OF THE SPECIFIED YIELD STRESS OF THE BAR (TYPE 1 MECHANICAL COUPLERS). COUPLERS SHALL BE STAGGERED AT A MINIMUM OF 24 INCHES.
5. PROVIDE DOWELS FROM FOUNDATIONS THE SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
6. ALL DOWELS AND TERMINATING BARS SHALL HAVE A STANDARD 90_DEGREE HOOK.
7. ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS, UNLESS NOTED OTHERWISE.
8. PROVIDE CORNER BARS AT INTERSECTIONS AND CORNERS OF WALLS AND FOUNDATIONS. CORNER BARS TO MATCH SIZE AND QUANTITY OF CONTINUOUS REINFORCEMENT AND PROVIDE A CLASS B LAP SPLICE.
9. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:
   - 9.1. COVER OF CONCRETE EXPOSED TO GROUND OR WEATHER:
     - UNFORMED, CAST AGAINST GROUND 3 INCH CLEAR
     - FORMED, #6 AND LARGER 2 INCH CLEAR
     - FORMED, #5 AND SMALLER 1_1/2 INCH CLEAR
   - 9.2. COVER OF CONCRETE NOT EXPOSED TO GROUND OR WEATHER:
     - WALLS 3/4 INCH CLEAR
     - COLUMNS (TIES) 1_1/2 INCH CLEAR
     - BEAMS / GIRDERS (STIRRUPS) 1_1/2 INCH CLEAR
     - PT BEAMS / GIRDERS (STIRRUPS) 1_1/2 INCH CLEAR
     - SLABS 3/4 INCH CLEAR
   - 9.3. MASONRY REINFORCING STEEL, UNLESS NOTED OTHERWISE.
     - 8 INCH CMU WALLS CENTERED IN CELL
     - 12 INCH CMU WALLS 2_1/2 INCH CLEAR
10. PROVIDE REINFORCING SUPPORTS AND CHAIRS FOR ALL DEFORMED BARS AND WELDED WIRE REINFORCEMENT IN ACCORDANCE WITH CRSI PLACING REINFORCING BARS.
11. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DOCUMENTS, PROVIDE A MINIMUM OF TWO #5 CONTINUOUS BARS TOP BARS TO SUPPORT BEAM STIRRUPS WHERE NO TOP BARS ARE SCHEDULED OR NOTED.

CAST-IN-PLACE CONCRETE

1. CONCRETE WORK SHALL CONFORM TO ACI 301, ACI 318, AND CRSI STANDARDS.
2. CONCRETE SHALL BE THE FOLLOWING SPECIFIED PROPERTIES (MINIMUM EXPOSURE CLASS, MINIMUM 28_DAY COMPRESSIVE STRENGTH, AND MAXIMUM WATER_CEMENTITIOUS MATERIALS RATIO):
   - 2.1. NORMALWEIGHT STRUCTURAL CONCRETE:

ELEMENT	EXPOSURE CLASS	STRENGTH	W/CM
FOOTINGS & PEDESTALS	F0 S0 W0 C1	3000 PSI	0.50
EXTERIOR GRADE-SUPPORTED SLABS	F3 S0 W0 C2	5000 PSI	0.40
INTERIOR GRADE-SUPPORTED SLABS	F0 S0 W0 C1	4000 PSI	0.50

3. DO NOT PLACE PIPES, CONDUITS, OR DUCTS INSIDE AND RUNNING PARALLEL TO BEAMS WITHOUT PRIOR AUTHORIZATION FROM THE STRUCTURAL DESIGN PROFESSIONAL.
4. PIPES, CONDUITS, OR DUCTS SHALL NOT EXCEED ONE-FIFTH OF THE SLAB OR WALL THICKNESS (INCLUDING CROSSINGS) UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DOCUMENTS OR APPROVED IN WRITING BY THE STRUCTURAL DESIGN PROFESSIONAL. PLACE ALL PIPES, CONDUITS, AND DUCTS IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE STRUCTURAL DOCUMENTS. SEE THE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF SLEEVES, ACCESSORIES, ETC. CONDUIT IN COMPOSITE SLABS SHALL NOT EXCEED 3/4 INCH DIAMETER EMT AND SHALL NOT BE SPACED CLOSER THAN 12 INCHES.
5. REFER TO THE ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR THE LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
6. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL DESIGN PROFESSIONAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
7. DEFECTIVE AREAS IN CONCRETE, INCLUDING BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.016 INCH SHALL BE REPAIRED. THE EXTENT OF THE DEFECTIVE AREAS WILL BE DETERMINED BY THE DESIGN PROFESSIONAL.

POST-INSTALLED FASTENING AND ANCHORAGE IN CONCRETE

1. PROVIDE POST-INSTALLED ANCHORS ONLY WHERE SPECIFIED IN THE CONSTRUCTION DOCUMENTS OR WHERE SPECIFICALLY APPROVED BY THE STRUCTURAL DESIGN PROFESSIONAL. SUBMIT PROPOSED POST-INSTALLED ANCHORING PRODUCTS BEFORE USE.
2. SUBMIT SUBSTITUTION REQUESTS FOR SPECIFICALLY REFERENCED ANCHOR SOLUTIONS TO THE STRUCTURAL DESIGN PROFESSIONAL. SUBSTITUTION REQUESTS MUST FOLLOW THE PROCEDURE INDICATED IN THE CONSTRUCTION DOCUMENTS. CALCULATIONS SHOWING THE PROPOSED PRODUCT CAN ACHIEVE PERFORMANCE EQUAL TO THE PRODUCT SPECIFIED IN THE CONSTRUCTION DOCUMENTS MUST ACCOMPANY ANY SUBSTITUTION REQUEST. CALCULATIONS MUST BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION.
3. SUBSTITUTION OF POST-INSTALLED ANCHORS FOR MISPLACED, DAMAGED, OR MISSING CAST-IN-PLACE ANCHORS REQUIRES THE APPROVAL OF THE STRUCTURAL DESIGN PROFESSIONAL BEFORE INSTALLATION.
4. PROVIDE CARBON STEEL ANCHOR RODS FOR ADHESIVE ANCHORING SYSTEMS MADE OF MATERIAL CONFORMING TO ASTM A193, GRADE B7. PROVIDE STAINLESS STEEL ANCHOR ROD

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING MATERIAL STANDARDS, UNLESS NOTED OTHERWISE.

• W-SHAPES & WT-SHAPES	ASTM A992
• SQUARE AND RECTANGULAR TUBES (HSS)	ASTM A500, GRADE C
• ROUND TUBES (HSS)	ASTM A500, GRADE C
• PIPE	ASTM A53, GRADE B
• CHANNELS	ASTM A36
• ANGLES	ASTM A36
• PLATES, RODS, AND CONNECTING MATERIALS	ASTM A36

2. BOLTS AND ANCHORS:

2.1. BOLTED CONNECTIONS SHALL BE TYPE N (BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE) WITH MINIMUM 3/4 INCH DIAMETER, ASTM F3125, GRADE A325 BOLTS. ALL MOMENT FRAME AND BRACED FRAME CONNECTIONS SHALL BE SLIP-CRITICAL CONNECTIONS WITH MINIMUM 3/4 INCH DIAMETER ASTM F3125, GRADE A325 BOLTS. FOR PRETENSIONED OR SLIP-CRITICAL JOINTS, THE METHOD OF PRETENSIONING SHALL BE EITHER TURN-OF-NUT WITH MATCHMARKING, DIRECT TENSION INDICATORS (ASTM F959), OR TWIST-OFF-TYPE TENSION CONTROL BOLT ASSEMBLIES (ASTM F3125, GRADE F1852/GRADE F2280).

2.2. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36 AND SHALL BE HEADED RODS OR THREADED RODS WITH A HEAVY HEXAGONAL NUT WELDED TO THE BOTTOM OF THE THREADED ROD, UNLESS NOTED OTHERWISE.

2.3. HEADED STUDS SHALL CONFORM TO ASTM A29/A108, GRADE 1010-1020, TYPE B. INSTALL HEADED STUDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

2.4. COMPOSITE SHEAR STUDS SHALL CONFORM TO ASTM A29/A108, GRADE 1010-1020, TYPE B. INSTALL COMPOSITE SHEAR STUDS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

2.5. DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A1064, TYPE C. INSTALL DEFORMED BAR ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

3. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO BOTH THE AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

4. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS FOR REVIEW BY THE STRUCTURAL DESIGN PROFESSIONAL. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DESIGNED FOR THE SERVICE LOAD REACTION VALUES SHOWN ON THE STRUCTURAL DRAWINGS.

4.1. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL DESIGN PROFESSIONAL.

4.2. THE STRUCTURAL DESIGN PROFESSIONAL SHALL BE COMPENSATED BY THE CONTRACTOR FOR THE COST INVOLVED IN THE REDESIGN OF CONNECTIONS FOR THE CONVENIENCE OF THE CONTRACTOR.

4.3. STEEL CONNECTIONS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR. THE DESIGN SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. SHOP DRAWING AND CALCULATIONS FOR SUCH CONNECTIONS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. FOR CONNECTION DETAILS DEPICTING THE ARRANGEMENT CONCEPT OF THE CONNECTION WITHOUT COMPLETE DETAILS, THE CONNECTION DESIGN ENGINEER SHALL FOLLOW THAT ARRANGEMENT CONCEPT IN THE DESIGN.

5. USE PRE-QUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY. "NON-PRE-QUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION.

6. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.

STEEL JOISTS

1. STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND ERECTED ACCORDING TO THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).

2. STEEL ROOF JOISTS AND BRIDGING SHALL BE DESIGNED FOR A NET UNIFORM UPLIFT LOAD DETERMINED USING THE MAXIMUM DEAD LOAD USED FOR UPLIFT SHOWN IN THE CODE AND DESIGN CRITERIA AND THE APPLICABLE COMPONENTS AND CLADDING PRESSURES.

3. ALL JOISTS SHALL HAVE A MINIMUM ALLOWABLE ROLLOVER CAPACITY OF 1.5 KIPS AND USE A MINIMUM FACTOR OF SAFETY OF 2.0.

4. BRIDGING SHALL BE DESIGNED TO FULLY BRACE TOP CHORD OF JOISTS UNDER SERVICE LOADS FOR ROOF JOISTS NOT BRACED BY STEEL ROOF DECK.

5. THE DESIGN OF STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

6. SUBMIT SHOP DRAWINGS TO THE STRUCTURAL DESIGN PROFESSIONAL FOR REVIEW. SUBMITTALS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT JURISDICTION. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS. THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS, AND THE CONTRACTOR'S INTERPRETATION OF THE CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS.

7. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION AND ERECTION OF WALLS, BEAM FRAMING, METAL DECKING, ETC. TO ENSURE COMPATIBILITY OF ROOF AND WALL SYSTEMS CONSIDERING PITCH AND CAMBER OF STEEL JOISTS.

8. THE CONTRACTOR SHALL COORDINATE THE JOIST SEAT DEPTH BETWEEN JOIST MANUFACTURER AND STEEL DETAILER. THE SHOP DRAWINGS MUST INDICATE THE JOIST SEAT DEPTH.

9. JOISTS THAT SUPPORT CONCENTRATED LOADS SHALL HAVE THOSE LOADS LOCATED WITHIN 3 INCHES OF JOIST PANEL POINTS OR JOISTS SHALL BE REINFORCED PER JOIST REINFORCING DETAIL. CONCENTRATED LOADS SHALL BE CENTERED ON JOISTS AND NOT ATTACHED TO THE EDGE OF CHORD ANGLES.

10. SPECIAL JOISTS THAT REQUIRE SPECIFIC ORIENTATION SHALL BE TAGGED AT ONE END. DEFINE LOCATION OF TAGGED END ON ERECTION DRAWING.

STEEL DECK

1. STEEL DECK DESIGN IS BASED ON THE STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS.

2. PROVIDE STEEL ROOF DECK WITH THE FOLLOWING MINIMUM PROPERTIES:

2.1. TYPICAL 1-1/2 INCH STEEL ROOF DECK

• DECK DEPTH	d = 1-1/2 INCH
• DECK THICKNESS	t = 0.0358 INCH (20 GAGE)
• POSITIVE EFFECTIVE MOMENT OF INERTIA	I_{ep} = 0.197 IN⁴/FT
• NEGATIVE EFFECTIVE MOMENT OF INERTIA	I_{en} = 0.217 IN⁴/FT
• POSITIVE EFFECTIVE SECTION MODULUS	S_{ep} = 0.224 IN³/FT
• NEGATIVE EFFECTIVE SECTION MODULUS	S_{en} = 0.229 IN³/FT
• DECK YIELD STRESS	F_y = 50 KSI
• DECK FINISH	G60 GALVANIZED COATING

3. PROVIDE LONG-SPAN ACOUSTICAL STEEL ROOF DECK WITH THE FOLLOWING MINIMUM PROPERTIES:

3.1. ENVISTA FN7.9A ROOF DECK (OR APPROVED EQUAL)

• DECK DEPTH	d = 7-7/8 INCH
• DECK THICKNESS	t = 0.0474 INCH (18 GAGE)
• EFFECTIVE MOMENT OF INERTIA	I_e = 9.96 IN⁴/FT
• POSITIVE EFFECTIVE SECTION MODULUS	S_{ep} = 2.19 IN³/FT
• NEGATIVE EFFECTIVE SECTION MODULUS	S_{en} = 2.19 IN³/FT
• DECK YIELD STRESS	F_y = 50 KSI
• DECK FINISH	G60 GALVANIZED COATING

4. STEEL DECK DESIGN IS SPECIFIED BASED ON A THREE-SPAN CONDITION. FURNISH HEAVIER GAGE DECK IF REQUIRED FOR ONE OR TWO SPAN CONDITION.

5. FASTEN STEEL DECK AS INDICATED IN THE STRUCTURAL DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING CALCULATIONS AND PRODUCT DATA FOR ALTERNATE CONNECTION METHODS SUBJECT TO APPROVAL BY THE STRUCTURAL DESIGN PROFESSIONAL.

SPECIAL INSPECTIONS

1. THE STRUCTURAL TESTING/INSPECTION AGENCY WILL PERFORM SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE. MATERIALS AND WORK TO BE INSPECTED INCLUDE BUT ARE NOT LIMITED TO: CONCRETE, MASONRY, STEEL, WOOD, AND FOUNDATION CONSTRUCTION. SEE STATEMENT OF SPECIAL INSPECTIONS, SCHEDULE OF SPECIAL INSPECTIONS, SPECIFICATIONS SECTIONS, AND CHAPTER 17 OF THE BUILDING CODE (INCLUDING ASSOCIATED REFERENCES) FOR A COMPLETE LIST OF THE WORK REQUIRING STRUCTURAL SPECIAL INSPECTIONS.

2. SPECIAL INSPECTIONS, 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 FLOOR TRUSSES, ROOF TRUSSES, STEEL JOISTS, WOOD JOISTS, STRUCTURAL STEEL FRAMING, AND PRECAST CONCRETE JOISTS, BEAMS, COLUMNS, WALLS, AND CLADDING.

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 INSPECTIONS. APPROVAL SHALL BE BASED UPON 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 STATE THAT THE FABRICATION WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

4. THE PROJECT OWNER WILL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM THE INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE DURING CONSTRUCTION OF THE PROJECT. DOCUMENTATION THAT SUMMARIZES THE QUALIFICATIONS AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND THAT DEMONSTRATES COMPETENCE FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

5. APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION REPORTS TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE AND TO THE DESIGN PROFESSIONAL WHICH 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 DURING INSPECTION, SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY THE CHIEF COMMERCIAL BUILDING INSPECTOR PRIOR TO CONSTRUCTION.

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

wallace design collective

wallace design collective, pc
1455 lincoln parkway east, suite 260
atlanta, georgia 30346
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ISSUE DATE: 2024.06.28
PHASE: CONSTRUCTION DOCUMENTS

SHEET ISSUE:

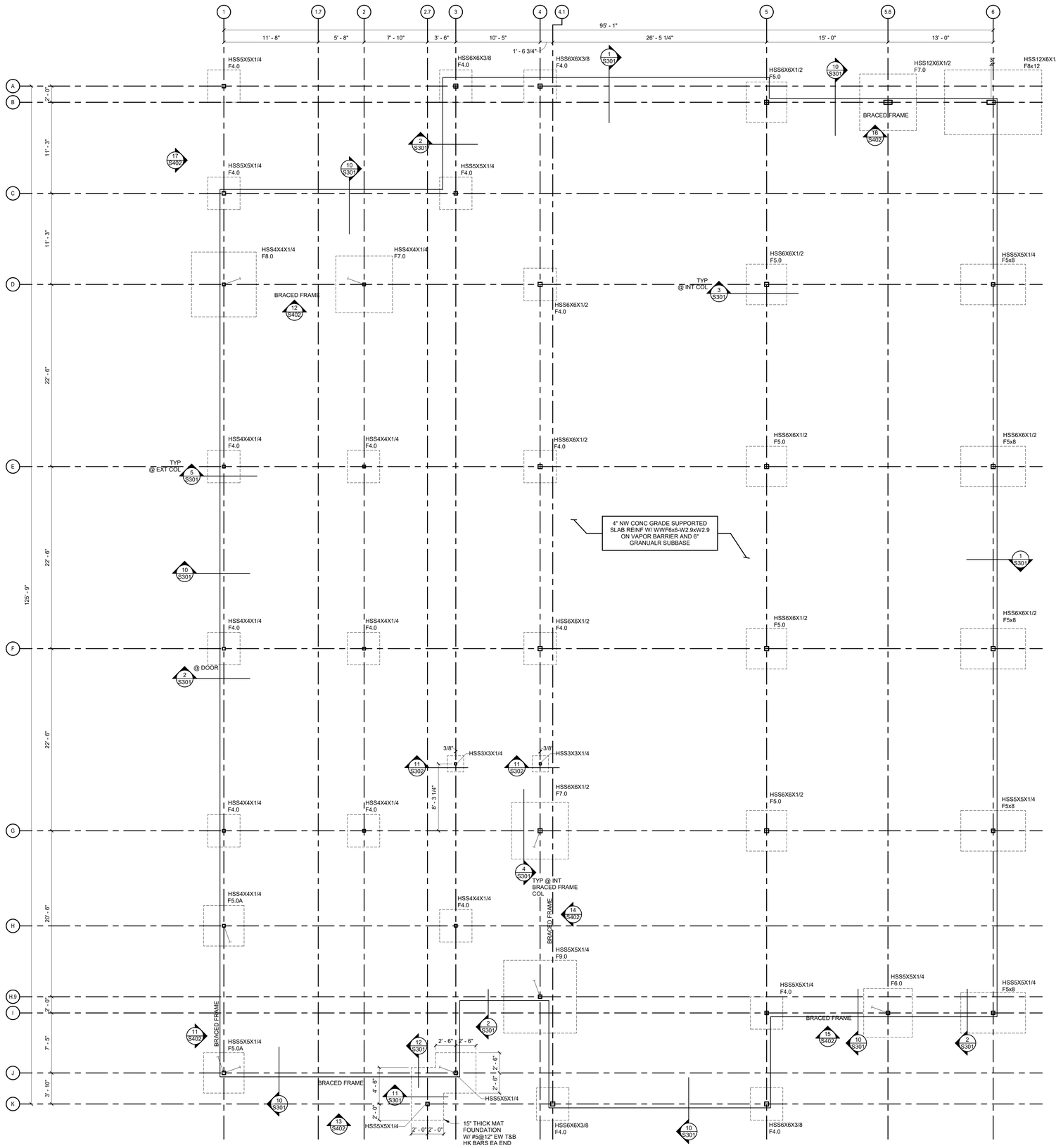
NO.	DATE	DESCRIPTION
C	2024.06.28	CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE: KJS
PROJECT ARCHITECT: AC
DRAWN BY: JM

SHEET TITLE:

GENERAL NOTES

SHEET NO. S002
PROJ. NO. 023432



1 FOUNDATION PLAN
3/16" = 1'-0"

FOUNDATION PLAN SHEET NOTES:
1. T/CONC SLAB EL = 0'-0" (CIVIL EL 100').
2. T/FDN EL = -1' - 4" UNO.
3. COL AND FDN CENTERED ON COL GRID LINES UNO.
4. REF ARCH DWGS FOR DIMENSIONS NOT INDICATED. COORD SLAB ELEVATIONS, SLAB EDGES, AND SLAB SLOPES WITH ARCH PLANS.
5. REF MECH AND ARCH DWGS FOR SLAB PENETRATIONS
6. THICKEN SLAB AT FLOOR BOXES AND CONDUIT TO MAINTAIN THE MIN CONC SLAB THICKNESS INDICATED ON PLANS.
7. COORDINATE EDGE OF SLAB W/ ARCH AND CIVIL DWGS.
8. SEE 5/S302 FOR TYPICAL ISOLATION JOINT AT COLUMNS.
9. CJ INDICATES CONTROL/CONTRACTION JOINT. SEE 1/S302. CONTRACTOR TO PROVIDE JOINT LAYOUT FOR REVIEW. SEE SPECS FOR SPACING REQUIREMENTS.

FOUNDATION PLAN REFERENCE NOTES:
A. REF S301 FOR FDN AND BP SCHED.
B. REF S301 FOR TYP FDN DETAILS

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

wallace design collective

wallace design collective, pc
1455 lincoln parkway east, suite 260
atlanta, georgia 30346
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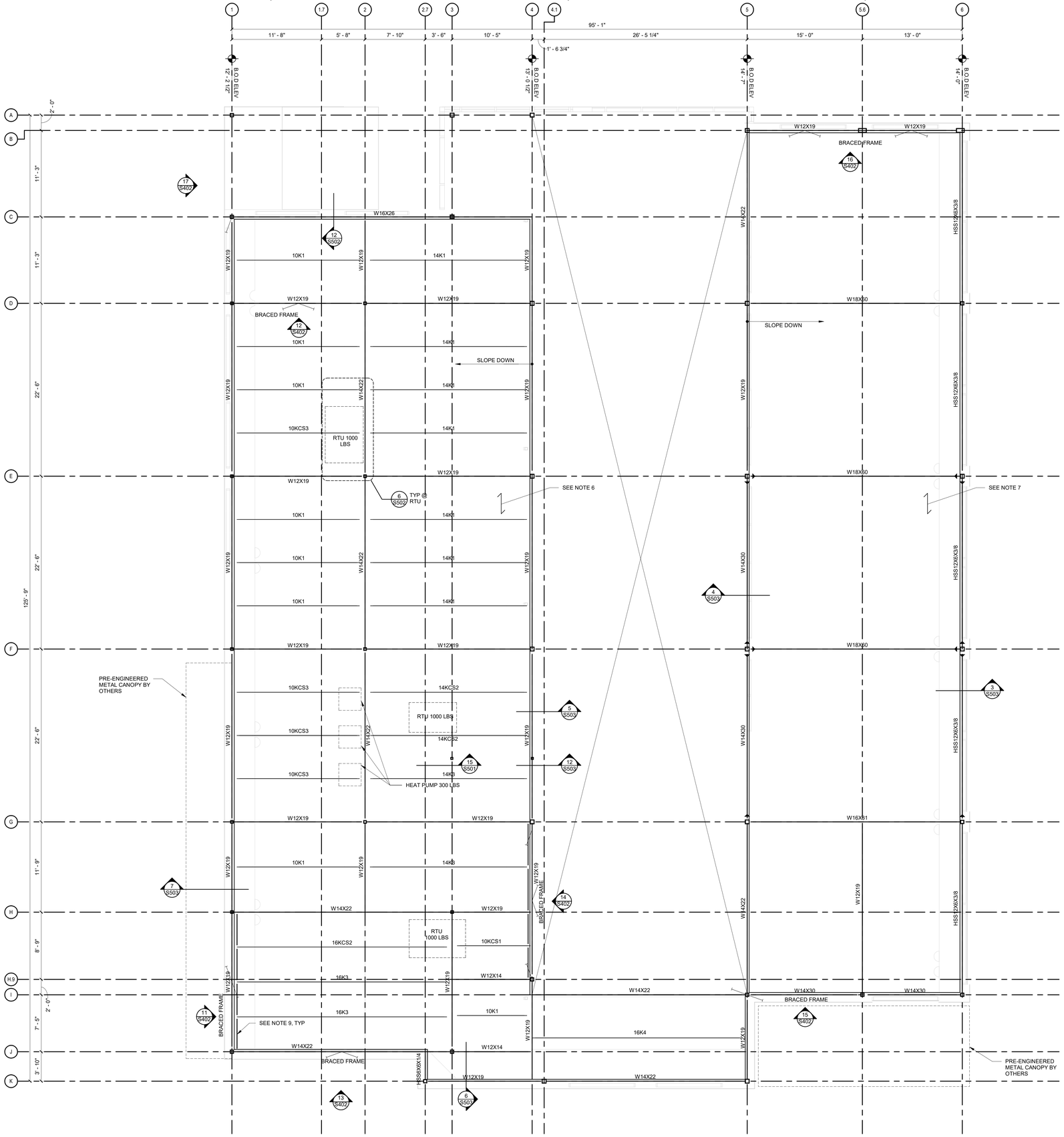
PRINCIPAL IN CHARGE: KJS
PROJECT ARCHITECT: AC
DRAWN BY: JM

SHEET TITLE:

FOUNDATION AND SLAB PLAN

SHEET NO. S110
PROJ. NO. 023432



1 FLOOR FRAMING PLAN
3/16" = 1'-0"

STEEL ROOF FRAMING PLAN SHEET NOTES:
1. SEE PLAN FOR STEEL ELEVATIONS AND DECK BEARING ELEVATIONS.
2. BEAMS / JOISTS ARE EQUALLY SPACED BETWEEN COL LINES UNO.
3. REF ARCH DWGS FOR DIMENSIONS NOT INDICATED. COORD ROOF DECK ELEVATIONS, ROOF DECK EDGES, AND ROOF SLOPES WITH ARCH PLANS.
4. REF MECH AND ARCH DWGS FOR ROOFTOP UNITS AND ROOF DECK PENETRATIONS.
5. NO HANGING LOADS SHALL BE APPLIED TO THE ROOF DECK.
6. INDICATES SPAN OF 1 1/2" METAL ROOF DECK. SEE 1/S502 FOR ATTACHMENT.
7. INDICATES SPAN OF ENVISTA FN7.9A ACCOUSTICAL ROOF DECK. SEE 1/S502 FOR ATTACHMENT.
8. ALL JOISTS TO HAVE A MINIMUM JOIST ROLLOVER CAPACITY OF 1.5 KIPS (SERVICE).
9. WHERE INDICATED, PROVIDE HSS 2-/2X2-1/2 COLLECTOR ELEMENT PER DETAIL 14/S501.
10. ⟶⟵ INDICATES AXIAL TRANSFER FORCE THROUGH BEAM CONNECTION (SERVICE).

STEEL ROOF FRAMING PLAN REFERENCE NOTES:
A. REF FDN PLAN FOR STL COL SIZES
B. REF S500 SERIES DRAWINGS FOR TYP ROOF FRAMING DTLS.
C. REF S500 SERIES DRAWINGS FOR CONN SCHED.

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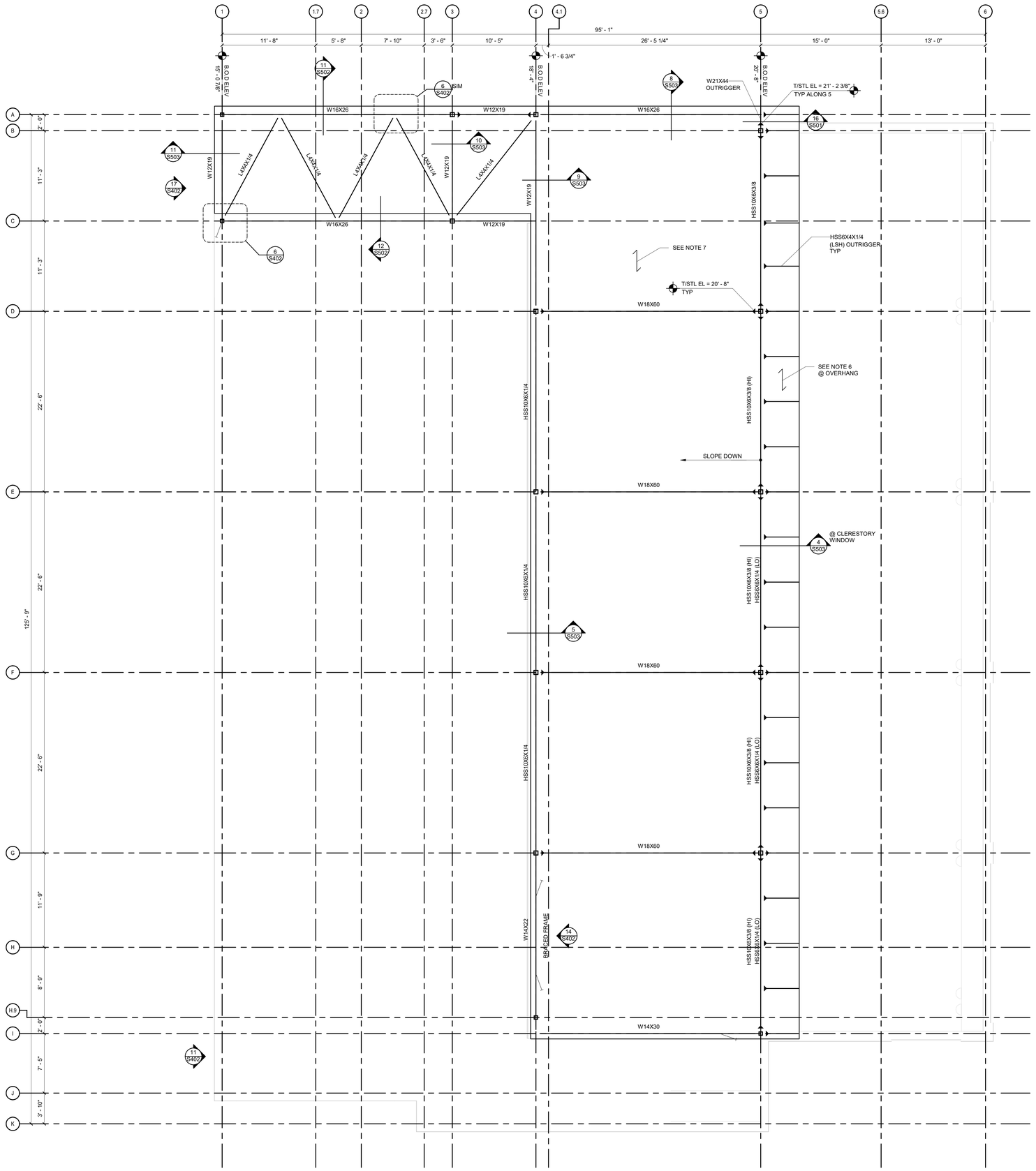
PRINCIPAL IN CHARGE:	KJS
PROJECT ARCHITECT:	AC
DRAWN BY:	JM

SHEET TITLE:

LOW ROOF FRAMING PLAN

SHEET NO. S120

PROJ. NO. 023432



1 HIGH ROOF FRAMING PLAN
3/16" = 1'-0"

STEEL ROOF FRAMING PLAN SHEET NOTES:
1. SEE PLAN FOR STEEL ELEVATIONS AND DECK BEARING ELEVATIONS.
2. BEAMS / JOISTS ARE EQUALLY SPACED BETWEEN COL LINES UNO.
3. REF ARCH DWGS FOR DIMENSIONS NOT INDICATED. COORD ROOF DECK ELEVATIONS, ROOF DECK EDGES, AND ROOF SLOPES WITH ARCH PLANS.
4. REF MECH AND ARCH DWGS FOR ROOFTOP UNITS AND ROOF DECK PENETRATIONS.
5. NO HANGING LOADS SHALL BE APPLIED TO THE ROOF DECK.
6. INDICATES SPAN OF 1 1/2" METAL ROOF DECK. SEE 1/S502 FOR ATTACHMENT.
7. INDICATES SPAN OF ENVISTA FN7.9A ACCOUSTICAL ROOF DECK. SEE 1/S502 FOR ATTACHMENT.
8. ALL JOISTS TO HAVE A MINIMUM JOIST ROLLOVER CAPACITY OF 1.5 KIPS (SERVICE).
9. WHERE INDICATED, PROVIDE HSS 2-/2X2-1/2 COLLECTOR ELEMENT PER DETAIL 14/SS501.
10. ⟶⟵ INDICATES AXIAL TRANSFER FORCE THROUGH BEAM CONNECTION (SERVICE).

STEEL ROOF FRAMING PLAN REFERENCE NOTES:
A. REF FDN PLAN FOR STL COL SIZES
B. REF S500 SERIES DRAWINGS FOR TYP ROOF FRAMING DTLS.
C. REF S500 SERIES DRAWINGS FOR CONN SCHED.

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PRINCIPAL IN CHARGE:	KJS
PROJECT ARCHITECT:	AC
DRAWN BY:	JM

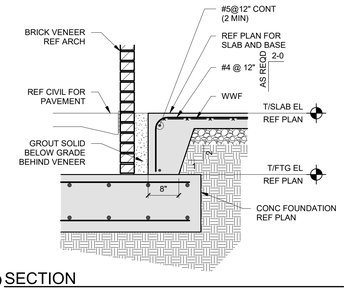
SHEET TITLE:

HIGH ROOF FRAMING PLAN

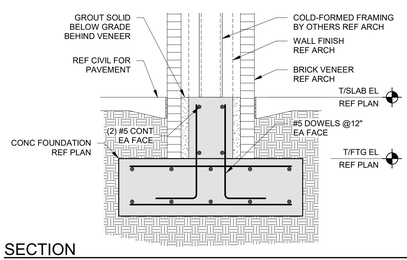
SHEET NO.

S121

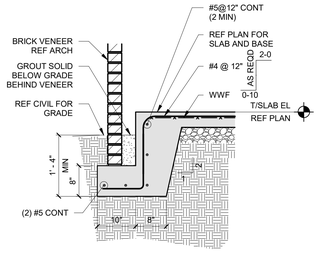
PROJ. NO. 023432



12 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"

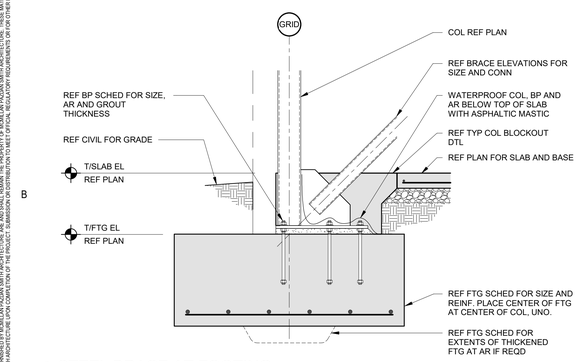


10 TURNDOWN SLAB WITH BRICK LEDGE
3/4" = 1'-0"

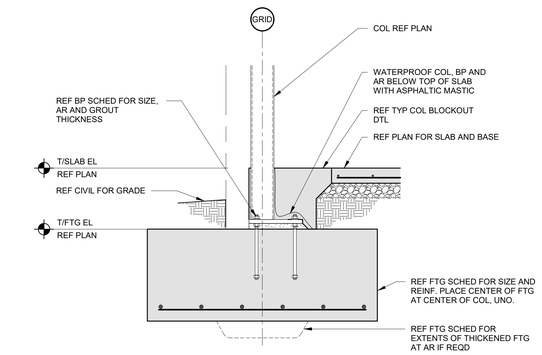
FOOTING SCHEDULE

MARK	SIZE (WxLxT)	REINF	REMARKS
F4.0	4'-0"x4'-0"x1'-0"	5#5 EW, BOT	HK BARS EA END
F4.0A	4'-0"x4'-0"x1'-0"	5#5 EW, TOP & BOT	HK BARS EA END
F5.0	5'-0"x5'-0"x1'-3"	6#5 EW, BOT	HK BARS EA END
F5.0A	5'-0"x5'-0"x1'-3"	6#5 EW, TOP & BOT	HK BARS EA END
F6.0	6'-0"x6'-0"x1'-3"	7#5 EW, TOP & BOT	HK BARS EA END
F7.0	7'-0"x7'-0"x1'-4"	8#5 EW, TOP & BOT	
F8.0	8'-0"x8'-0"x1'-6"	8#6 EW, TOP & BOT	
F9.0	9'-0"x9'-0"x1'-6"	9#6 EW, TOP & BOT	
F5x8	5'-0"x8'-0"x1'-3"	7#5 LW, TOP & BOT 10#5 SW, TOP & BOT	HK SW BARS EA END
F8x12	8'-0"x12'-0"x1'-6"	13#6 LW, TOP & BOT 15#6 SW, TOP & BOT	

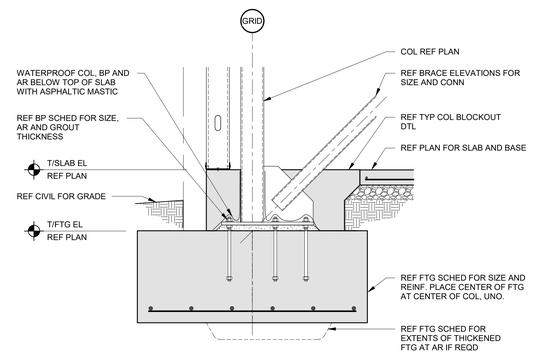
9 FOOTING SCHEDULE
12" = 1'-0"



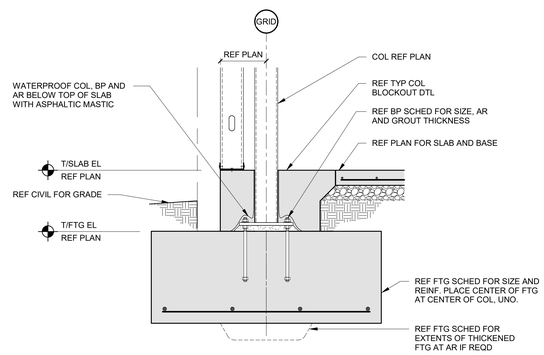
8 STEEL BRACE AT FOOTING
3/4" = 1'-0"



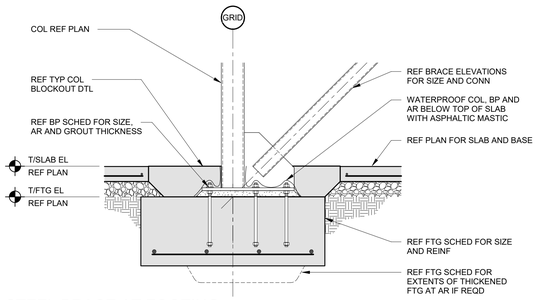
7 STEEL BRACE AT FOOTING
3/4" = 1'-0"



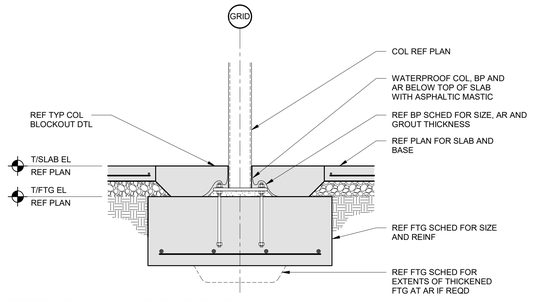
6 STEEL BRACE AT FOOTING
3/4" = 1'-0"



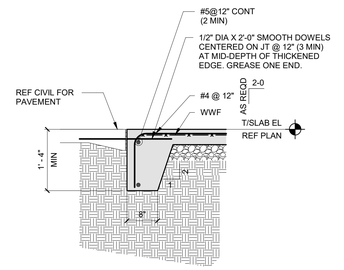
5 STEEL COLUMN AT FOOTING
3/4" = 1'-0"



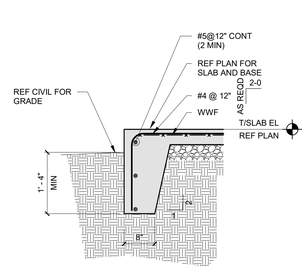
4 STEEL BRACE AT FOOTING
3/4" = 1'-0"



3 STEEL COLUMN AT FOOTING
3/4" = 1'-0"



2 TURNDOWN SLAB AT DOOR
3/4" = 1'-0"



1 TURNDOWN SLAB
3/4" = 1'-0"

mcmillan
pazdan
smith
ARCHITECTURE

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wallace
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wallace design collective, pc
1455 lincoln parkway east, suite 260
atlanta, georgia 30346
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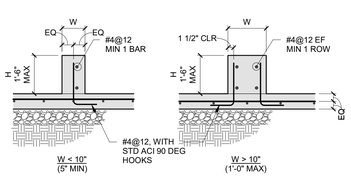
PRINCIPAL IN CHARGE: KJS
PROJECT ARCHITECT: AC
DRAWN BY: JM

SHEET TITLE:

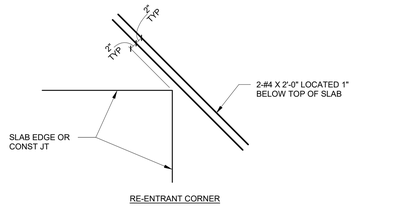
FOUNDATION SECTIONS AND DETAILS

SHEET NO. S301
PROJ. NO. 023432

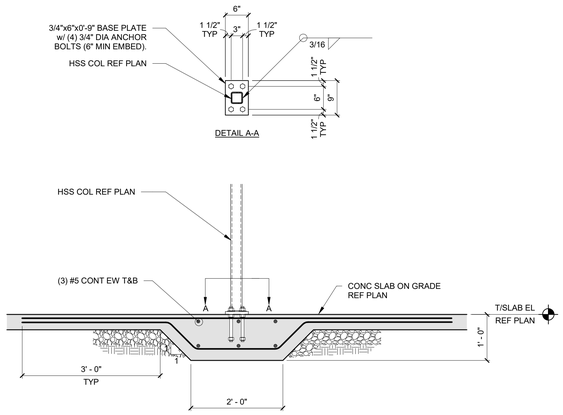


NOTE:
COORD W AND H WITH ARCH

8 CONCRETE CURB AT GRADE-SUPPORTED SLAB
3/4" = 1'-0"



4 GRADE SUPPORTED SLAB REINFORCEMENT
3/4" = 1'-0"



11 FOOTING SECTION AT COLUMN
3/4" = 1'-0"

CONCRETE REINFORCING LAP SPLICE LENGTH SCHEDULE

BAR SIZE	6000 PSI		7000 PSI		8000 PSI		9000 PSI		10000 PSI OR GREATER	
	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#3	20"	18"	19"	18"	18"	18"	18"	18"	18"	18"
#4	26"	24"	25"	24"	24"	24"	24"	24"	24"	24"
#5	33"	30"	31"	30"	30"	30"	30"	30"	30"	30"
#6	40"	36"	37"	36"	36"	36"	36"	36"	36"	36"
#7	58"	44"	54"	42"	50"	42"	47"	42"	46"	42"
#8	66"	51"	61"	48"	57"	48"	54"	48"	51"	48"
#9	74"	57"	69"	54"	64"	54"	61"	54"	57"	54"
#10	83"	64"	77"	60"	72"	60"	68"	60"	65"	60"
#11	93"	71"	86"	66"	80"	66"	76"	66"	72"	66"

CONCRETE REINFORCING LAP SPLICE LENGTH SCHEDULE

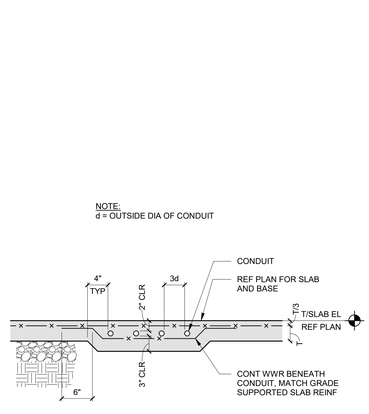
BAR SIZE	STRUCTURAL ELEMENT MINIMUM COMPRESSIVE STRENGTH (f'c)							
	3000 PSI		4000 PSI		4500 PSI		5000 PSI	
	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#3	28"	22"	25"	19"	23"	18"	22"	18"
#4	38"	29"	33"	25"	31"	24"	29"	24"
#5	47"	36"	41"	31"	38"	30"	36"	30"
#6	56"	43"	49"	37"	46"	36"	44"	36"
#7	81"	63"	71"	54"	67"	51"	63"	49"
#8	93"	72"	81"	62"	76"	59"	72"	56"
#9	105"	81"	91"	70"	86"	66"	81"	63"
#10	118"	91"	102"	79"	96"	74"	92"	71"
#11	131"	101"	113"	87"	107"	82"	101"	78"

DB = DIAMETER OF BAR

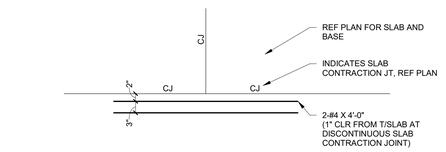
NOTES:
1. TABULATED VALUES ARE BASED ON A MINIMUM YIELD STRENGTH OF 60,000 PSI REINFORCING STEEL BARS WITHOUT EPOXY COATING AND NORMALWEIGHT AGGREGATE CONCRETE.
2. TABULATED VALUES ARE BASED ON CONCRETE COVER AT LEAST 1.0DB AND CENTER-TO-CENTER BAR SPACING AT LEAST 2.0DB FOR BEAMS/COLUMNS AND 3.0DB FOR ALL OTHERS.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
4. FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.33.

7 CONCRETE REINFORCING LAP SCHEDULE
3/4" = 1'-0"

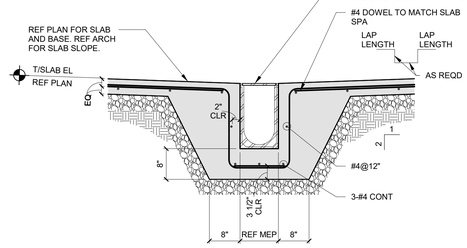
3 GRADE SUPPORTED SLAB AT FLOOR DRAIN
3/4" = 1'-0"



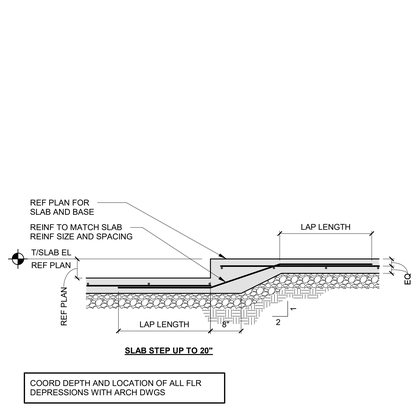
10 GRADE-SUPPORTED SLAB AT CONDUIT
1" = 1'-0"



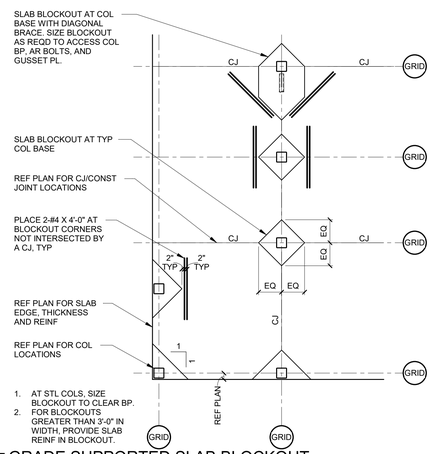
6 REINFORCEMENT AT DISCONTINUOUS CONTRACTION JOINT
3/4" = 1'-0"



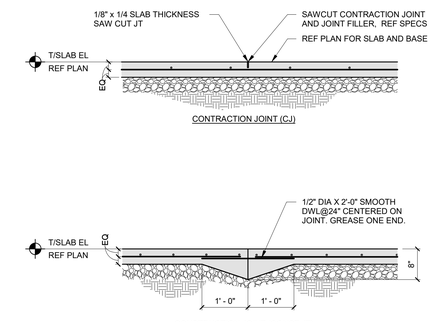
2 GRADE SUPPORTED SLAB AT TRENCH DRAIN
3/4" = 1'-0"



9 GRADE-SUPPORTED SLAB STEP DETAIL
3/4" = 1'-0"



5 GRADE SUPPORTED SLAB BLOCKOUT
1/4" = 1'-0"



1 GRADE SUPPORTED SLAB AT JOINTS
3/4" = 1'-0"

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PROJECT ARCHITECT: AC
DRAWN BY: JM

SHEET TITLE:
GRADE SUPPORTED SLAB DETAILS

SHEET NO. S302
PROJ. NO. 023432

CATEGORY		AESS 1	AESS 2	AESS 3	AESS 4
I.D.	CHARACTERISTICS	FEATURE ELEMENTS IN CLOSE VIEW	FEATURE ELEMENTS NOT IN CLOSE VIEW	BASIC ELEMENTS	SHOWCASE ELEMENTS
1.1	SURFACE PREPARATION TO SSPC-SP 6	X	X	X	X
1.2	SHARP EDGES GROUND SMOOTH	X	X	X	X
1.3	CONTINUOUS WELD APPEARANCE	X	X	X	X
1.4	STANDARD STRUCTURAL BOLTS	X	X	X	X
1.5	WELD SPATTERS REMOVED	X	X	X	X
2.1	VISUAL SAMPLES			X	X
2.2	ONE-HALF STANDARD FABRICATION TOLERANCES		X	X	X
2.3	FABRICATION MARKS NOT APPARENT		X	X	X
2.4	WELDS UNIFORM AND SMOOTH		X	X	X
3.1	MILL MARKS REMOVED			X	X
3.2	BUTT AND PLUG WELDS GROUND SMOOTH AND FILLED			X	X
3.3	HSS WELD SEAM ORIENTED FOR REDUCED VISIBILITY			X	X
3.4	CROSS-SECTIONAL ABUTTING SURFACE ALIGNED			X	X
3.5	JOINT GAP TOLERANCES MINIMIZED			X	X
3.6	ALL WELDED CONNECTIONS			OPTIONAL	OPTIONAL
4.1	HSS SEAM NOT APPARENT				X
4.2	WELDS CONTOURED AND BLENDED				X
4.3	SURFACES FILLED AND SANDED				X
4.4	WELD SHOW-THROUGH MINIMIZED				X

AESS GENERAL NOTES

1. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL HEREIN HAS BEEN CATEGORIZED AS SUMMARIZED IN MODERN STEEL CONSTRUCTION MAGAZINE, NOVEMBER 2017 ISSUE TITLED "MAXIMUM EXPOSURE".

2. REFER TO SECTION 10 OF THE AISC 303-16 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS FOR GENERAL REQUIREMENTS AND FABRICATION PROCESSES FOR EACH TYPE NOTED IN THE MATRIX.

3. WALL THICKNESS OF HSS MEMBERS SHOWN ON PLAN ARE THE MINIMUM THICKNESS FOR STRUCTURAL PURPOSES. CONTRACTOR SHALL INCREASE WALL THICKNESS OR EMPLOY OTHER CONSTRUCTION MEANS AS REQUIRED TO PREVENT DISTORTION, WARPING, OR OIL-CANNING OF THE HSS CROSS SECTION.

5 AESS CATEGORY MATRIX
NTS

COLUMN BASE PLATE SCHEDULE

MARK	BASE PLATE				ANCHOR BOLTS			NOTES
	TYPE	T	W	L	NUMBER	DIA	EMBED	

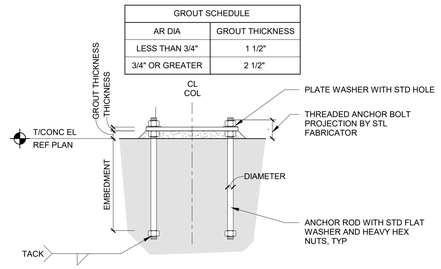
4 BASE PLATE AND ANCHOR BOLT SCHEDULE
1/2" = 1'-0"

MIN PLATE WASHER SCHEDULE		
ANCHOR ROD DIAMETER	PLATE WASHER SIZE	THICKNESS
3/4"	2"	1/4"
7/8"	2 1/2"	5/16"
1"	3"	3/8"
1 1/4"	3 1/2"	1/2"
1 1/2"	4"	1/2"
1 3/4"	4 1/2"	5/8"
2"	5"	3/4"
2 1/2"	5 1/2"	7/8"

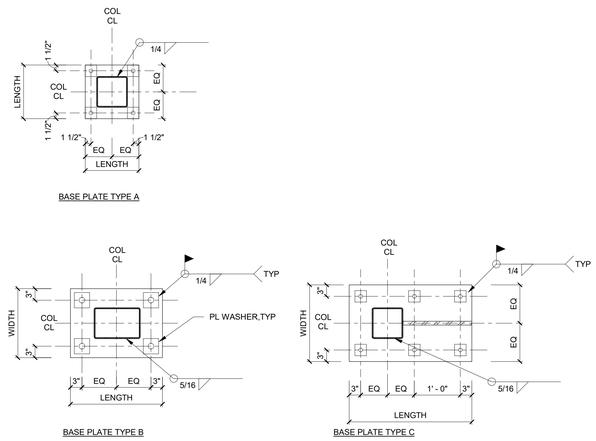
NOTES:
1. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE

3 Plate Washer Schedule
3/4" = 1'-0"

GROUT SCHEDULE	
AR DIA	GROUT THICKNESS
LESS THAN 3/4"	1 1/2"
3/4" OR GREATER	2 1/2"



2 TYPICAL BASE PLATE AND ANCHOR BOLT SECTIONS
3/4" = 1'-0"



1 BASE PLATE AND ANCHOR ROD DIAGRAM
3/4" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

wallace design collective

wallace design collective, pc
1455 lincoln parkway east, suite 260
atlanta, georgia 30346
404.815.4282 · 800.364.5858

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ISSUE DATE: 2024.06.28
PHASE: CONSTRUCTION DOCUMENTS

SHEET ISSUE:

NO.	DATE	DESCRIPTION
C	2024.06.28	CONSTRUCTION DOCS PRICING

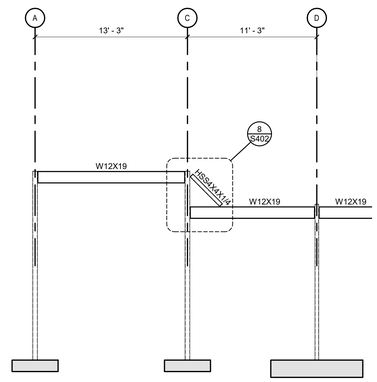
PRINCIPAL IN CHARGE: KJS
PROJECT ARCHITECT: AC
DRAWN BY: JM

SHEET TITLE:

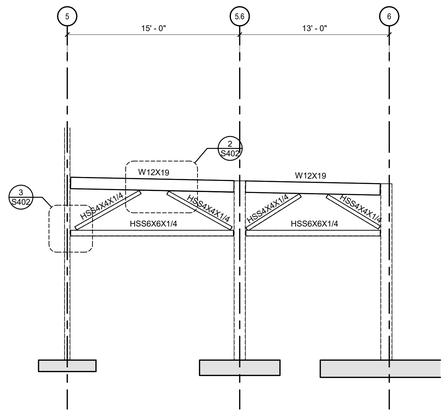
COLUMN AND COLUMN BASEPLATE DETAILS

SHEET NO. S401

PROJ. NO. 023432



17 BF7
3/16" = 1'-0"



16 BF5
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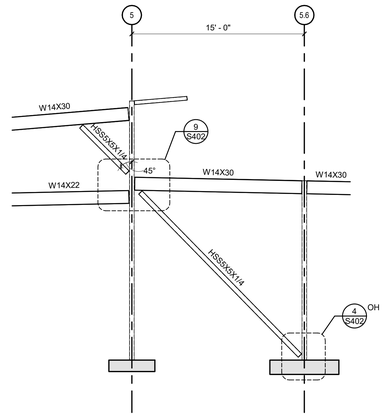
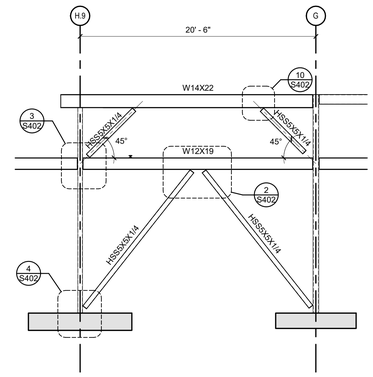
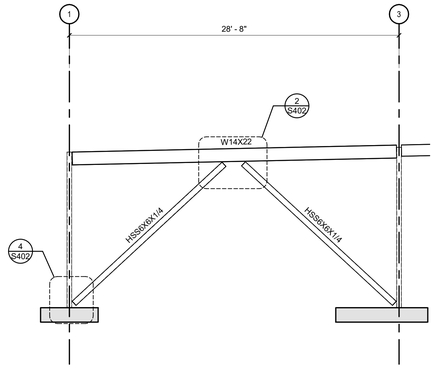


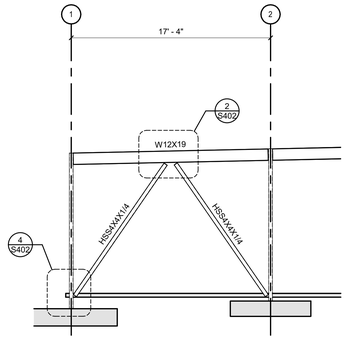
15 BF4
3/16" = 1'-0"



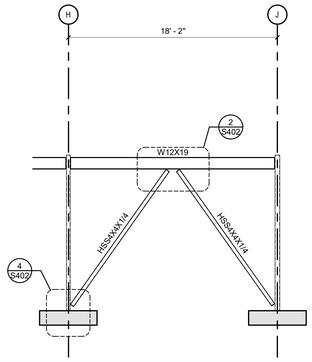
14 BF3
3/16" = 1'-0"



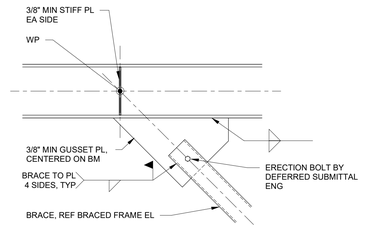
13 BF2
3/16" = 1'-0"



12 BF1
3/16" = 1'-0"

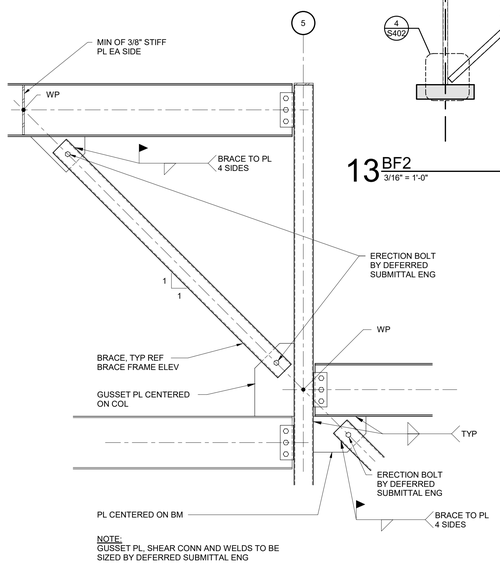


11 BF8
3/16" = 1'-0"



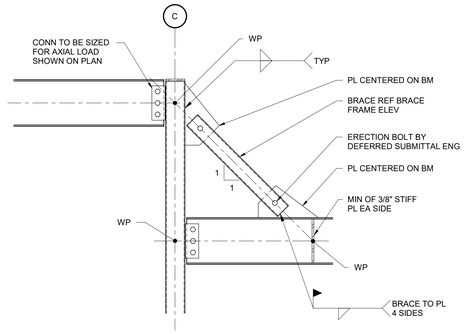
NOTE:
GUSSET PL, STFFENER PL AND WELDS TO BE SIZED BY DEFERRED SUBMITTAL ENG

10 VERTICAL BRACE AT BEAM (SINGLE)
3/4" = 1'-0"



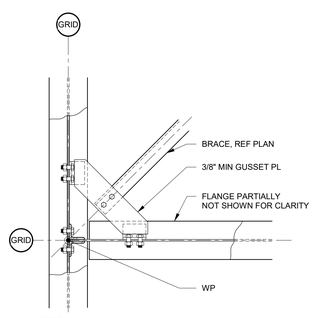
NOTE:
GUSSET PL, SHEAR CONN AND WELDS TO BE SIZED BY DEFERRED SUBMITTAL ENG

9 BRACE DETAIL
3/4" = 1'-0"



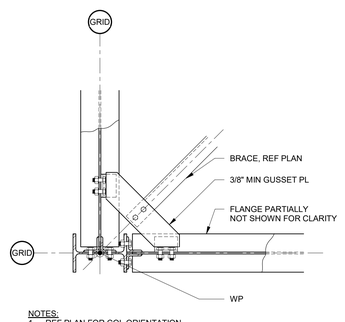
NOTE:
GUSSET PL, SHEAR CONN AND WELDS TO BE SIZED BY DEFERRED SUBMITTAL ENG

8 BRACE DETAIL
3/4" = 1'-0"



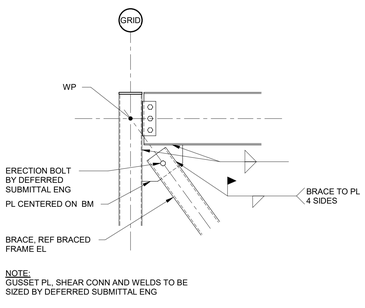
NOTES:
1. GUSSET PL AND BOLTS TO BE SIZED BY DEFERRED SUBMITTAL ENG. DEFERRED SUBMITTAL ENG TO DETERMINE IF SLIP CRITICAL BOLTS ARE REQD.

7 ANGLE HORIZONTAL BRACE AT BEAM
3/4" = 1'-0"



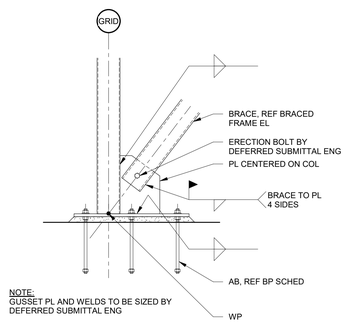
NOTES:
1. REF PLAN FOR COL ORIENTATION
2. GUSSET PL AND BOLTS TO BE SIZED BY DEFERRED SUBMITTAL ENG. DEFFERED SUBMITTAL ENG TO DETERMINE IF SLIP CRITICAL BOLTS ARE REQD

6 ANGLE HORIZONTAL BRACE AT COLUMN
3/4" = 1'-0"



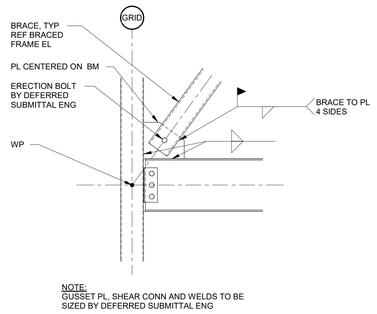
NOTE:
GUSSET PL, SHEAR CONN AND WELDS TO BE SIZED BY DEFERRED SUBMITTAL ENG

5 BRACE DETAIL - BEAM TO COL INTERSECTION
3/4" = 1'-0"



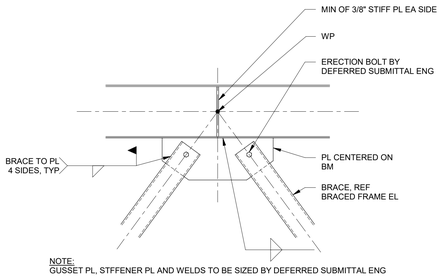
NOTE:
GUSSET PL AND WELDS TO BE SIZED BY DEFERRED SUBMITTAL ENG

4 BRACE DETAIL - BASE PLATE
3/4" = 1'-0"



NOTE:
GUSSET PL, SHEAR CONN AND WELDS TO BE SIZED BY DEFERRED SUBMITTAL ENG

3 BRACE DETAIL - BEAM TO COL - ELEVATED INTERSECTION
3/4" = 1'-0"



NOTE:
GUSSET PL, STFFENER PL AND WELDS TO BE SIZED BY DEFERRED SUBMITTAL ENG

2 BRACE DETAIL - CENTER OF BEAM
3/4" = 1'-0"

NOTE:
1. ALL BRACED FRAME CONNECTIONS SHALL BE DESIGNED BY THE STEEL FABRICATOR'S DESIGN ENGINEER.
2. ALL BRACED FRAME CONNECTIONS SHALL BE DESIGNED FOR FACTORED AXIAL TENSION, AXIAL COMPRESSION AND SHEAR FORCES SHOWN ON BRACED FRAME ELEVATIONS AND FRAMING PLANS.
3. F= +/- INDICATES AXIAL TENSION AND COMPRESSION FORCE IN KIPS (ULTIMATE) IN THE MEMBER.
4. SEE PLAN FOR T/STL ELEVATIONS. SEE PLAN FOR MEMBER SIZES NOT SHOWN.
5. PROVIDE SLIP CRITICAL CONNECTIONS WHERE BOLTS ARE USED.

1 TYPICAL BRACED FRAME NOTES
1/2" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

wallace design collective

wallace design collective, pc
1455 lincoln parkway east, suite 260
atlanta, georgia 30346
404.875.4282 · 800.364.5858

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SHEET ISSUE:

NO.	DATE	DESCRIPTION
C	2024.06.28	CONSTRUCTION DOCS PRICING

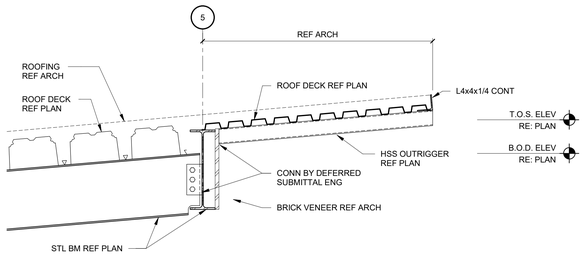
PRINCIPAL IN CHARGE: KJS
PROJECT ARCHITECT: AC
DRAWN BY: JM

SHEET TITLE:

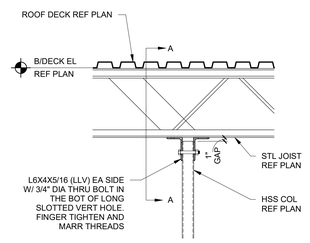
BRACE FRAME ELEVATIONS AND DETAILS

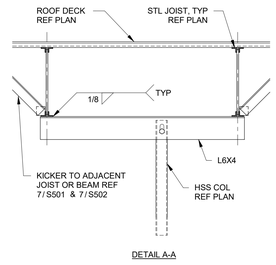
SHEET NO. S402

PROJ. NO. 023432

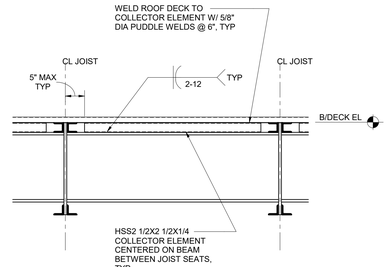


16 SECTION
3/4" = 1'-0"





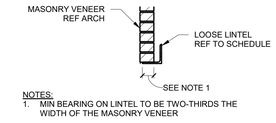
15 SECTION
3/4" = 1'-0"



14 TYPICAL CONNECTION AT COLLECTOR ELEMENT
3/4" = 1'-0"

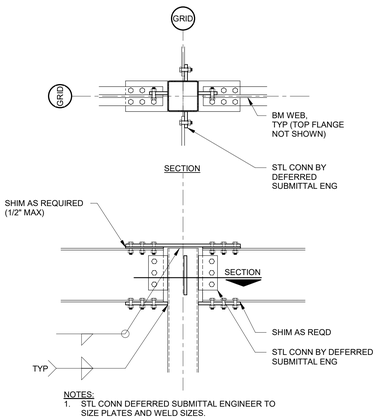
MASONRY VENEER LOOSE LINTEL ANGLE SCHEDULE

CLEAR SPAN	ANGLE SIZE	BEARING
UP TO 6' - 0"	L5x5x5/16	8"
6' - 0" TO 9' - 0"	3/8"x5"x7" (LLV) BENT PL	8"



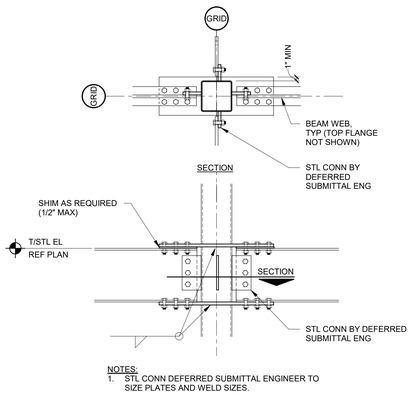
NOTES:
1. MIN BEARING ON LINTEL TO BE TWO-THIRDS THE WIDTH OF THE MASONRY VENEER

13 LOOSE LINTEL ANGLE DETAIL & SCHEDULE
3/4" = 1'-0"



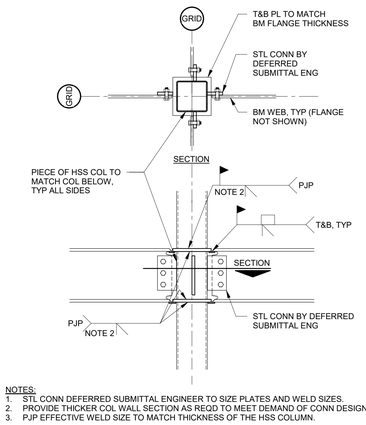
NOTES:
1. STL CONN DEFERRED SUBMITTAL ENGINEER TO SIZE PLATES AND WELD SIZES.

12 TUBE COLUMN AT ROOF MOMENT CONNECTION (BOLTED)
NTS



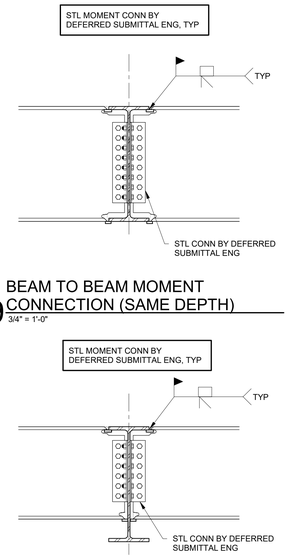
NOTES:
1. STL CONN DEFERRED SUBMITTAL ENGINEER TO SIZE PLATES AND WELD SIZES.

11 TUBE COLUMN AT FLOOR MOMENT CONNECTION (BOLTED)
NTS



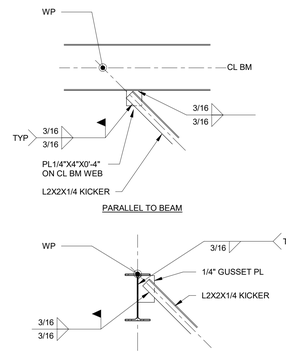
NOTES:
1. STL CONN DEFERRED SUBMITTAL ENGINEER TO SIZE PLATES AND WELD SIZES.
2. PROVIDE THICKER COL WALL SECTION AS REQD TO MEET DEMAND OF CONN DESIGN.
3. PJP EFFECTIVE WELD SIZE TO MATCH THICKNESS OF THE HSS COLUMN.

10 TUBE COLUMN AT FLOOR MOMENT CONNECTION
3/4" = 1'-0"

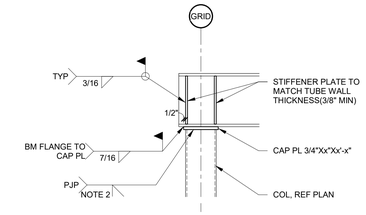


BEAM TO BEAM MOMENT CONNECTION (SAME DEPTH)
3/4" = 1'-0"

BEAM TO BEAM MOMENT CONNECTION (DIFFERENT DEPTH)
3/4" = 1'-0"

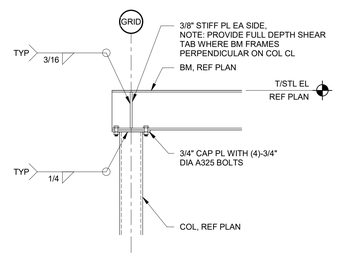


DIAGONAL BRACE AT BEAM
3/4" = 1'-0"

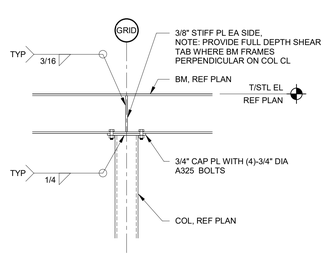


NOTES:
1. STL CONN DEFERRED SUBMITTAL ENGINEER TO SIZE PLATES AND WELD SIZES.
2. PJP EFFECTIVE WELD SIZE TO MATCH THICKNESS OF THE HSS COLUMN THICKNESS.

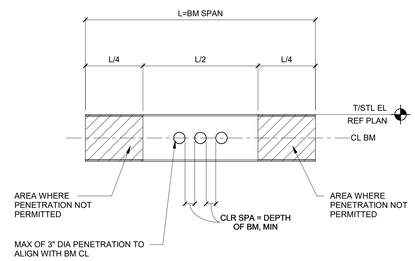
6 TUBE COLUMN AT ROOF MOMENT CONNECTION
3/4" = 1'-0"



5 END COLUMN CAP PLATE CONNECTION
3/4" = 1'-0"

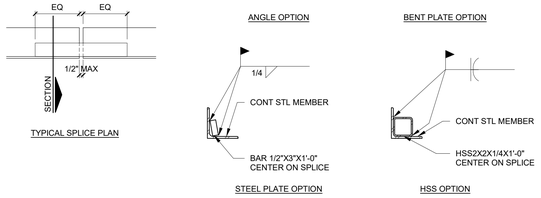


4 INTERIOR COLUMN CAP PLATE CONNECTION
3/4" = 1'-0"



NOTES:
1. NO MORE THAN 3 OPNGS ALLOWED PER BM. IF MORE THAN 3 REQD, CONSULT EOR FOR APPROVAL.
2. MINIMUM BEAM DEPTH = 12"
3. DO NOT PLACE PENETRATIONS WITHIN 12" CLEAR OF PERPENDICULAR BM CONNS.

3 STEEL BEAM SHOP PENETRATION DETAIL
3/4" = 1'-0"



TYPICAL SECTION OPTIONS

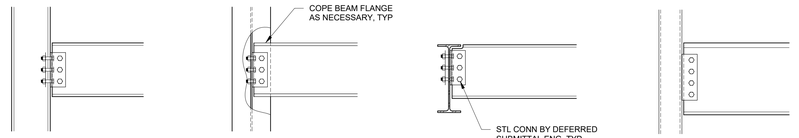
2 ANGLE SPLICE DETAIL
1 1/2" = 1'-0"

THE STL FABRICATOR SHALL BE RESPONSIBLE FOR DESIGN AND ADEQUACY OF ALL CONNS THAT ARE NOT FULLY DETAILED ON THE CONTRACT DOCUMENTS. REF PLANS, ELEVATIONS, AND SCHED FOR LRFD FACTORED LOADS, AND REF STL BEAM MIN CONN SCHED FOR MIN CONN REQD.

STEEL BEAM MINIMUM CONNECTION SCHEDULE

BEAM	MIN BOLT DIA	MIN NUMBER OF BOLTS	MIN LRFD FACTRORED END REACTIONS (KIPS)	NOTES
W8	3/4"	2	24	1,2,3,4
W10	3/4"	2	24	1,2,3,4
W12	3/4"	3	38	1,2,3,4
W14	3/4"	3	38	1,2,3,4
W16	3/4"	4	52	1,3,4
W18	3/4"	4	52	1,3,4
W21	3/4"	5	64	1,3,4
W24	3/4"	6	76	1,3,4
W27	3/4"	7	88	1,3,4
W30	3/4"	8	101	1,3,4
W33	3/4"	8	101	1,3,4
W36	3/4"	9	113	1,3,4
W40	3/4"	9	113	1,3,4

BEAM MINIMUM CONNECTION SCHEDULE NOTES:
1. UNLESS INDICATED ON FRAMING PLAN AND CORRESPONDING DETAILS OR NOTES BELOW, SCHEDULE INDICATES THE MINIMUM NUMBER OF BOLTS ALLOWED FOR BEAM CONNECTIONS.
2. MINIMUM BOLT SCHED APPLIES TO CHANNEL SECTIONS OF SAME NOMINAL DEPTHS, UNO
3. CONNECTIONS SHALL BE DESIGNED FOR LRFD FACTORED END REACTIONS SHOWN ON PLANS. IF NO REACTION IS SHOWN ON PLAN, DESIGN FOR REACTION IN SCHED.
4. REFER TO PLAN FOR REQUIRED MOMENT CONNECTION



1 STEEL BEAM CONNECTION SCHEDULE AND DETAILS
NTS

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

wallace design collective

wallace design collective, pc
1455 lincoln parkway east, suite 260
atlanta, georgia 30346
404.814.4282 · 800.364.5858

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SHEET ISSUE:

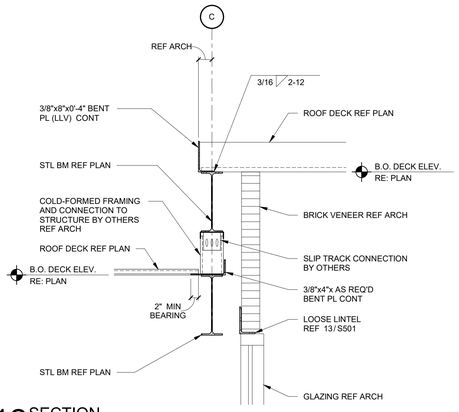
NO.	DATE	DESCRIPTION
C	2024.06.28	CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE: KJS
PROJECT ARCHITECT: AC
DRAWN BY: JM

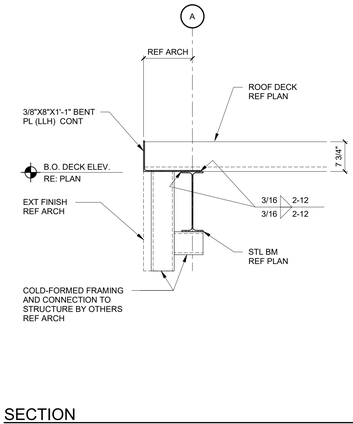
SHEET TITLE:

STEEL FRAMING SECTIONS AND DETAILS

SHEET NO. S501
PROJ. NO. 023432



12 SECTION
3/4" = 1'-0"



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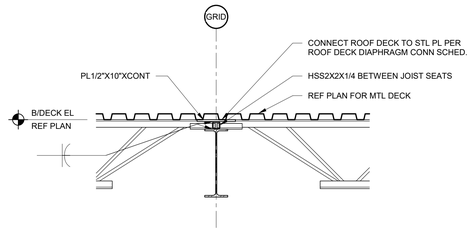
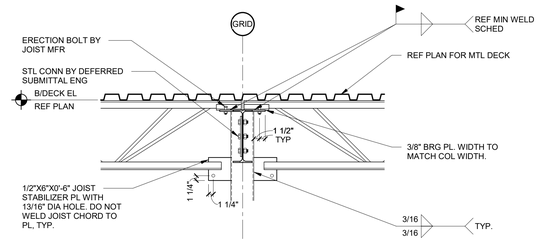
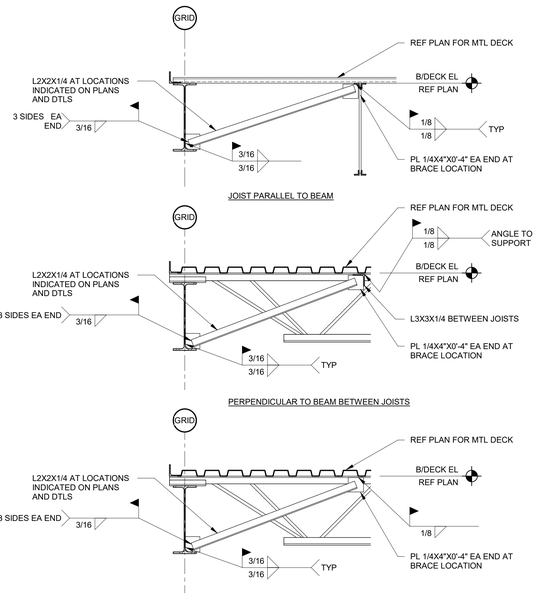
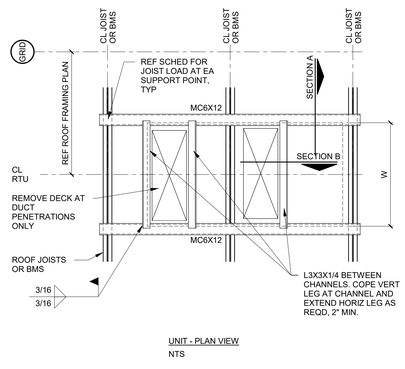


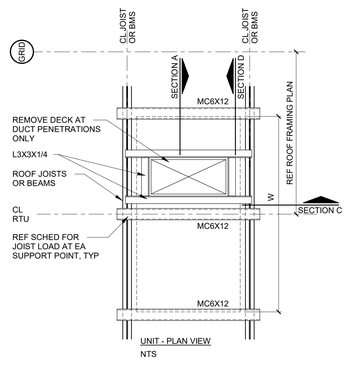
10 STEEL JOIST TO STEEL BEAM
NTS

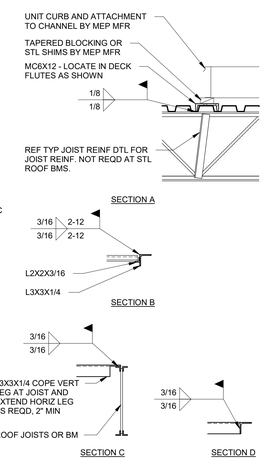


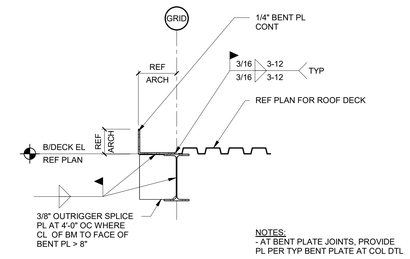
9 STEEL JOIST TO STEEL HSS COLUMM
NTS











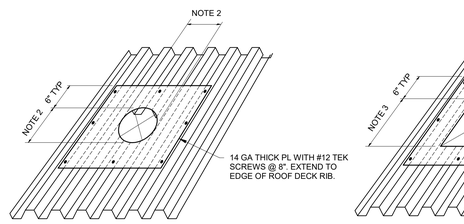
8 EXTERIOR ROOF DECK AT DECK EDGE
NTS

5 ROOF BEAM TO JOIST CONNECTION
NTS

RTU SUPPORT NOTES:

1. INSTALL MC6X12'S AFTER DECK PLACEMENT.
2. POSITION CURB OVER CHANNELS AND LOCATE REQD DUCT PENETRATIONS THRU ROOF. REF MECH DWGS FOR EXACT SIZES.
3. REMOVE DECK AT DUCT PENETRATION LOCATIONS AS REQD. FIELD WELD NEW DECK SUPPORT ANGLES BETWEEN CHANNELS. DECK SUPPORT ANGLE MAY BE OMITTED IF EDGE OF PENETRATION IS WITHIN 6 INCHES OF A JOIST.
4. THE DIMENSIONS SHOWN AT EA RTU ARE FOR THE JOIST MFR TO USE TO LOCATE CONCENTRATED LOADS AND ARE NOT INTENDED TO PROVIDE EXACT LOCATIONS OF STL FRAMING FOR SUPPORT OF THE UNIT CURBS. LOCATION OF STL FRAMING SHALL BE COORDINATED WITH THE MECH CONTRACTOR.

6 ROOF TOP UNIT AND DECK SUPPORT (1.5" ROOF DECK)
NTS



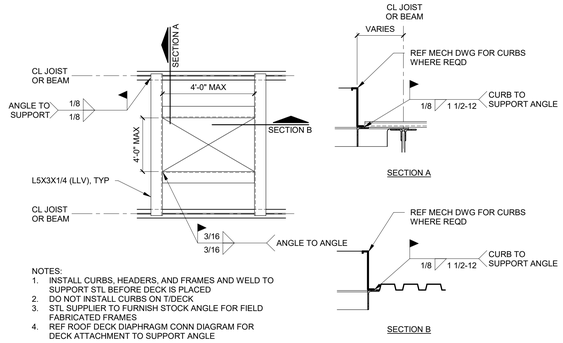
NOTES:
1. INDICATES THE LARGER OF THE OPNG SIZE DIMENSIONS = LESS THAN 6"
2. INDICATES THE LARGER OF THE OPNG SIZE DIMENSIONS = 6" TO LESS THAN 8"
3. INDICATES THE LARGER OF THE OPNG SIZE DIMENSIONS = 8" TO 1'-0"
4. ONLY ONE OPNG ALLOWED PER DECK SPAN. ADDL OPNG SHALL NOT BE LOCATED WITHIN 3'-0" MEASURED PERPENDICULAR TO SPAN FROM OPENING CENTER
5. FOR OPNG LARGER THAN 1'-0" SEE 2/S502

3 ROOF DECK REINFORCEMENT AT UNFRAMED ROOF OPENINGS
NTS

TYPICAL JOIST TO SUPPORT MINIMUM WELD SCHEDULE			
JOIST SECTION*	MINIMUM FILLET WELD SIZE	MINIMUM FILLET WELD LENGTH	REMARKS
K1-12	1/8"	2 1/2"	
LH02-06	3/16"	2 1/2"	
LH07-17	1/4"	2 1/2"	
LH18-25	1/4"	2 1/2"	
DLH10-17	1/4"	2 1/2"	
DLH18-25	1/4"	4"	

NOTE:
1. JOIST SECTION IS THE LAST DIGIT(S) OF JOIST DESIGNATION
2. WELD IS ON EA SIDE OF JOIST SEAT

4 JOIST TO SUPPORT MINIMUM WELD SCHEDULE
NTS



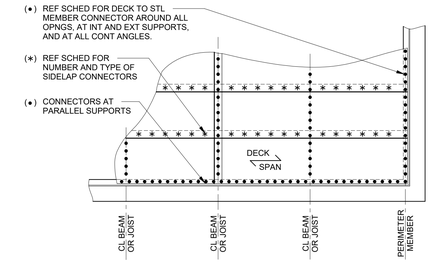
NOTES:
1. INSTALL CURBS, HEADERS, AND FRAMES AND WELD TO SUPPORT STL BEFORE DECK IS PLACED
2. DO NOT INSTALL CURBS ON T/DECK
3. STL SUPPLIER TO FURNISH STOCK ANGLE FOR FIELD FABRICATED FRAMES
4. REF ROOF DECK DIAPHRAGM CONN DIAGRAM FOR DECK ATTACHMENT TO SUPPORT ANGLE

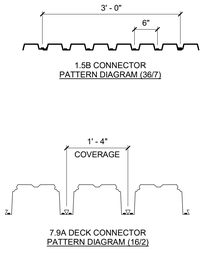
2 OPENING IN ROOF DECK LARGER THAN 12"x12"
NTS

MECHANICAL FASTENERS OPTION:
- CONNECTIONS TO STEEL: HILTI X-ENP-19 AND/OR X-HSN 24 PINS FOR APPROPRIATE THICKNESS
- SIDELAPS: HILTI S-SLC 01 M FASTENERS

ROOF DECK DIAPHRAGM CONNECTION SCHEDULE			
DECK TYPE	(•) DECK TO STEEL MEMBER CONNECTOR PATTERNED AND TYPE	(*) SIDELAP CONNECTOR NUMBER AND TYPE	(•) CONNECTIONS AT PARALLEL SUPPORT
1.5" DECK	36/7 - 5/8" DIA PUDDLE WELDS	#10 TEKS SCREWS @ 12"	36/7 - 5/8" DIA PUDDLE WELDS
ENVISTA	16/2 - 3/4" DIA PUDDLE WELDS	#12 TEKS SCREWS @ 12"	16/2 - 3/4" DIA PUDDLE WELDS

NOTES:
1. WELDING WASHERS SHALL BE USED WITH DECK THICKNESSES LESS THAN 22 GAGE.
2. COORDINATE REQUIREMENTS FOR VENTED DECK WITH CONCRETE INSULATING FILL.
3. ROOF DECK IS REQUIRED TO ACT AS A DIAPHRAGM. CONNECTION SHALL BE IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATION AND AS SHOWN IN SCHEDULE AND DETAIL.
4. DECKING SHALL BE CONTINUOUS OVER A MINIMUM OF (3) SPANS, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS. DECK SPLICES ARE TO BE OVER SUPPORTS.
5. NO HANGING LOADS SHALL BE ATTACHED TO ROOF DECK.
6. HILTI PINS AND SIDELAP FASTENERS MAY BE USED AT THE CONTRACTORS SUBSTITUTION REQUEST. SUBMIT DECK CONNECTION CALCULATIONS THAT MEET OR EXCEED THE CAPACITY OF WHAT IS INDICATED IN THE SCHEDULE SIGNED AND SEALED BY AN ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. PERSONNEL INSTALLING HILTI FASTENERS SHALL RECEIVE ON SITE TRAINING FOR PROPER INSTALLATION BY A HILTI FIELD REPRESENTATIVE. CONTACT HILTI FOR ON SITE TRAINING.





1 ROOF DECK DIAPHRAGM CONNECTION DIAGRAM
NTS

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

wallace design collective

wallace design collective, pc
1455 lincoln parkway east, suite 260
atlanta, georgia 30346
404.815.4282 · 800.364.5858

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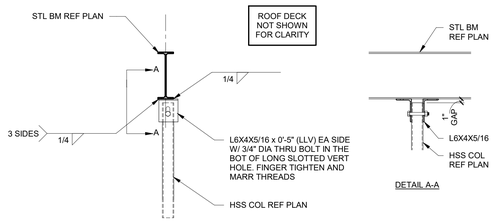
PRINCIPAL IN CHARGE:	KJS
PROJECT ARCHITECT:	AC
DRAWN BY:	JM

SHEET TITLE:

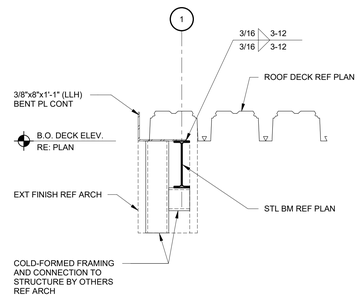
STEEL FRAMING SECTIONS AND DETAILS

SHEET NO. S502

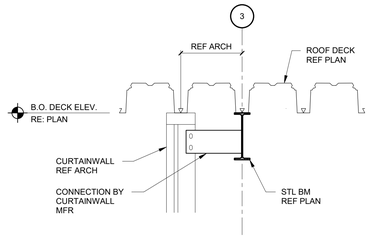
PROJ. NO. 023432



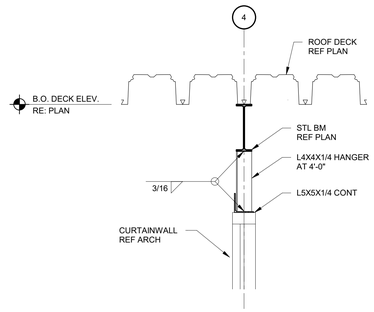
12 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"



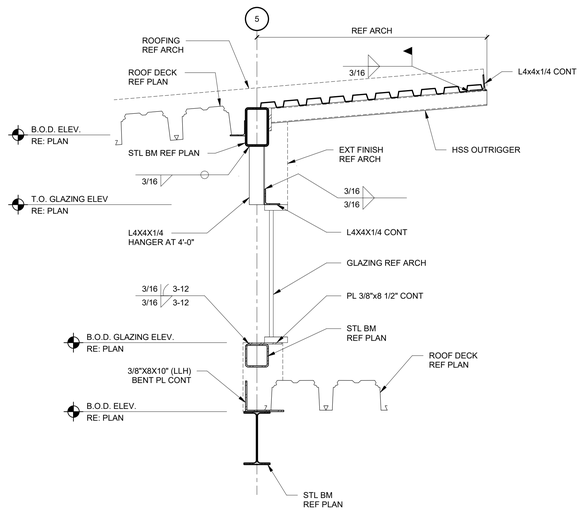
9 SECTION
3/4" = 1'-0"

8 SECTION
3/4" = 1'-0"

7 SECTION
3/4" = 1'-0"

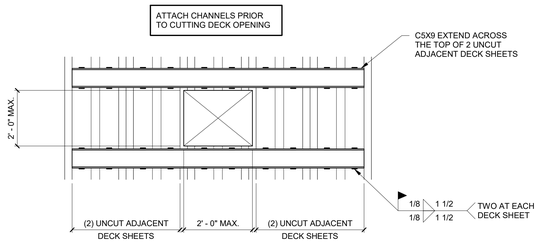
6 SECTION
3/4" = 1'-0"

5 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"

3 SECTION
3/4" = 1'-0"



2 TYPICAL OPENING IN ENVISTA DECK LESS THAN 24"x24"
3/4" = 1'-0"

1 TYPICAL OPENING IN ENVISTA DECK LESS THAN 9"x9"
3/4" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

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wallace design collective

wallace design collective, pc
1455 lincoln parkway east, suite 260
atlanta, georgia 30346
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PRINCIPAL IN CHARGE: KJS
PROJECT ARCHITECT: AC
DRAWN BY: JM

SHEET TITLE:

STEEL FRAMING SECTIONS AND DETAILS

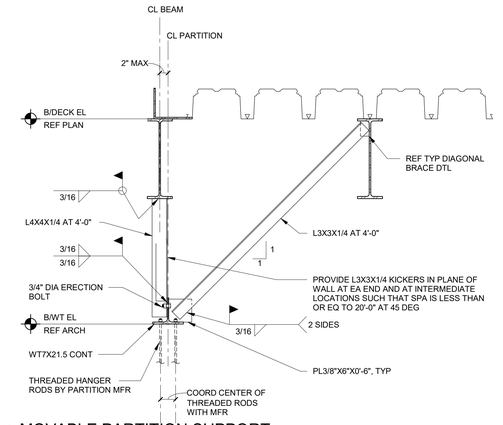
SHEET NO. S503
PROJ. NO. 023432

STEEL ROOF FRAMING PLAN SHEET NOTES:

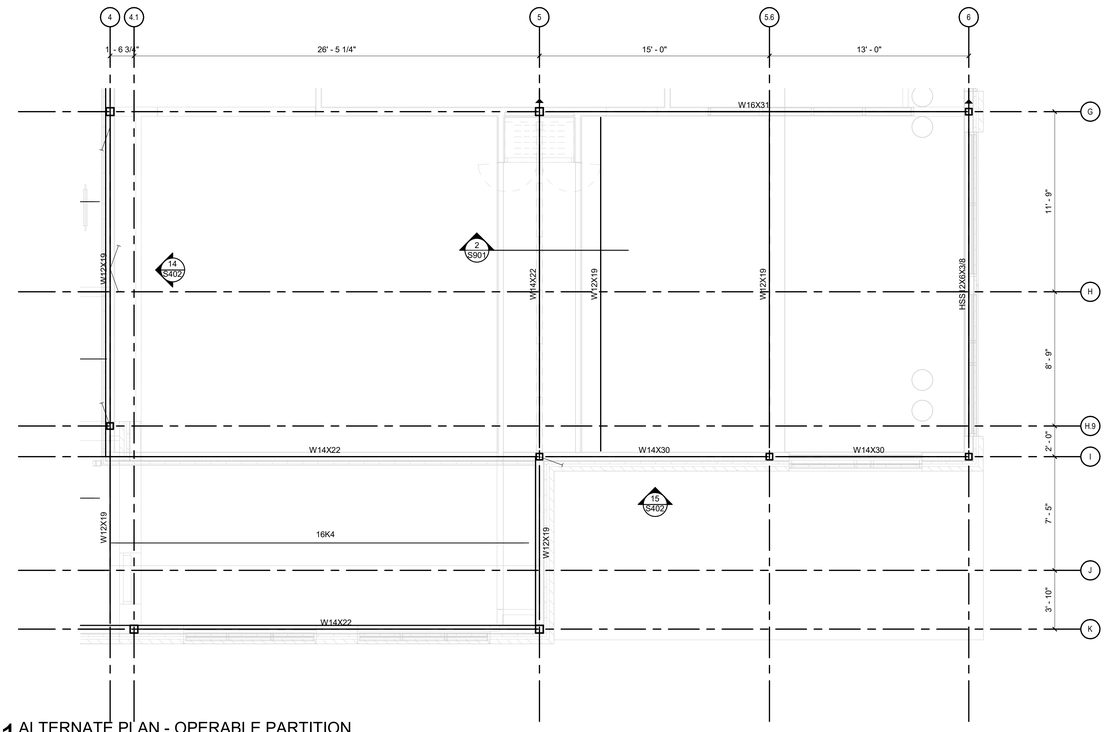
1. SEE PLAN FOR STEEL ELEVATIONS AND DECK BEARING ELEVATIONS.
2. BEAMS / JOISTS ARE EQUALLY SPACED BETWEEN COL LINES UNO.
3. REF ARCH DWGS FOR DIMENSIONS NOT INDICATED. COORD ROOF DECK ELEVATIONS, ROOF DECK EDGES, AND ROOF SLOPES WITH ARCH PLANS.
4. REF MECH AND ARCH DWGS FOR ROOFTOP UNITS AND ROOF DECK PENETRATIONS.
5. NO HANGING LOADS SHALL BE APPLIED TO THE ROOF DECK.
6. INDICATES SPAN OF 1 1/2" METAL ROOF DECK. SEE 1/S502 FOR ATTACHMENT.
7. INDICATES SPAN OF ENVISTA FN7.9A ACCOUSTICAL ROOF DECK. SEE 1/S502 FOR ATTACHMENT.
8. ALL JOISTS TO HAVE A MINIMUM JOIST ROLLOVER CAPACITY OF 1.5 KIPS (SERVICE).
9. WHERE INDICATED, PROVIDE HSS 2-/2X2-1/2 COLLECTOR ELEMENT PER DETAIL 14/SS01.
10. ⟷ INDICATES AXIAL TRANSFER FORCE THROUGH BEAM CONNECTION (SERVICE).

STEEL ROOF FRAMING PLAN REFERENCE NOTES:

A. REF FDN PLAN FOR STL COL SIZES
B. REF S500 SERIES DRAWINGS FOR TYP ROOF FRAMING DTLS.
C. REF S500 SERIES DRAWINGS FOR CONN SCHED.



2 MOVABLE PARTITION SUPPORT
3/4" = 1'-0"



1 ALTERNATE PLAN - OPERABLE PARTITION
1/4" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

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atlanta, georgia 30346
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PRINCIPAL IN CHARGE: KJS
PROJECT ARCHITECT: AC
DRAWN BY: JM

SHEET TITLE:
ALTERNATE

SHEET NO.
S901

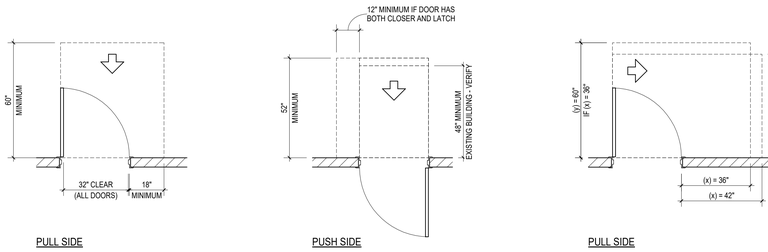
PROJ. NO.
023432

ABBREVATION NOTES:

1. ABBREVIATIONS LISTED BELOW APPLY TO THE ARCHITECTURAL DRAWINGS ONLY. REFER TO CONSTRUCTION DOCUMENTS PREPARED BY MPS CONSULTANTS FOR ABBREVIATIONS USED.
2. REFER TO FINISH SCHEDULE FOR FINISH MATERIAL ABBREVAITIONS NOT SHOWN.

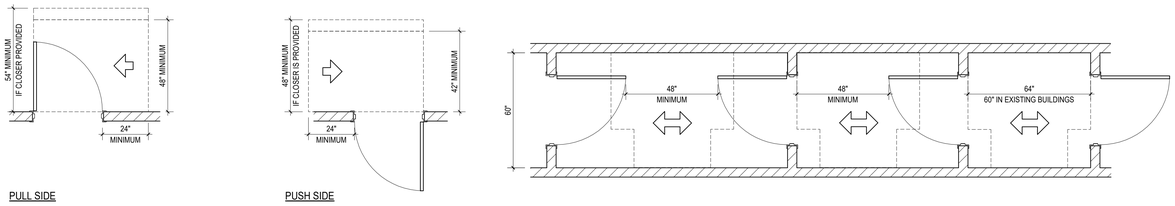
A/C	AIR CONDITION	FIXT	FIXTURE	PREFAB	PREFABRICATE
A/E	ARCHITECT/ENGINEER	FOC	FACE OF CONCRETE/ FACE OF CURB	PT	PRESSURE TREATED
ACT	ACOUSTICAL CEILING TILE	FOF	FACE OF FINISH	R	RADIUS
ADJ	ADJACENT or ADJUSTABLE	FOM	FACE OF MASONRY	RA	RELIEF ANGLE
AFF	ABOVE FINISHED FLOOR	FOS	FACE OF STUD	RB	RESILIENT BASE
AHJ	AUTHORITY HAVING JURISDICTION	FOW	FACE OF WALL	RCP	REFLECTED CEILING PLAN
ALT	ALTERNATE	FURN	FURNITURE	RD	ROOF DRAIN
ALUM	ALUMINUM			REBAR	REINFORCING STEEL BARS
APPROX	APPROXIMATE	GALV	GALVANIZED	REF	REFERENCE
ARCH	ARCHITECT	GB	GRAB BAR	REINF	REINFORCE
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION	GC	GENERAL CONTRACTOR	REQD	REQUIRED
AVG	AVERAGE	GFRC	GLASS-FIBER-REINFORCED CONCRETE	RH	ROOF HATCH
		GFRG	GLASS-FIBER-REINFORCED GYPSUM	RM	ROOM
BD	BOARD	GFRP	GLASS-FIBER-REINFORCED PLASTER	RO	ROUGH OPENING
BD FT	BOARD FEET (FOOT)	GL	GLASS/GLAZING	RTF	RUBBER TILE FLOOR
BLDG	BUILDING	GMP	GUARANTEED MAXIMUM PRICE	RTU	ROOF TOP UNIT
BOS	BOTTOM OF STEEL	GYP BD	GYPSUM WALL BOARD	RV	ROOF VENT
BOT	BOTTOM				
		HB	HOSE BIBB	SCHED	SCHEDULE
CAB	CABINET	HC	HOLLOW CORE	SD	SMOKE DETECTOR
CCTV	CLOSED CIRCUIT TELEVISION	HDW	HARDWARE	SHR	SHOWER
CF	CONTRACTOR FURNISHED	HM	HOLLOW METAL	SHRD	SHOWER DRAIN
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	HORZ	HORIZONTAL	SIM	SIMILAR
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED			SP	STANDPIPE
CFMF	COLD-FORMED METAL FRAMING	ID	INSIDE DIAMETER/ INSIDE DIMENSION	SPEC	SPECIFICATION(S)
CG	CORNER GUARD	INSUL	INSULATION	SPKLR	SPRINKLER
CIP	CAST-IN-PLACE	INT	INTERIOR	SPKR	SPEAKER
CJ	CONSTRUCTION JOINT/ CONTROL JOINT			SQ FT	SQUARE FOOT
C/L	CENTER LINE	JAN	JANITOR	SS	SOLID SURFACE
CLG	CEILING	JT	JOINT	SST	STAINLESS STEEL
CLR	CLEAR			STC	SOUND TRANSMISSION CLASS
CMU	CONCRETE MASONRY UNIT	KD	KNOCKED DOWN	STOR	STORAGE
CO	CLEANOUT			SUSP CLG	SUSPENDED CEILING
COL	COLUMN	LAM	LAMINATE	SYM	SYMMETRICAL
CONC	CONCRETE	LAV	LAVATORY		
CONF	CONFERENCE	LF	LINEAR FEET (FOOT)	TA	TOILET ACCESSORY
COORD	COORDINATE	LOS	LINE OF SIGHT	TBD	TO BE DETERMINED
CORR	CORRIDOR	LWC	LIGHTWEIGHT CONCRETE	T&G	TONGUE AND GROOVE
				TEMP	TEMPORARY
DBL	DOUBLE	MAINT	MAINTENANCE	THRU	THROUGH
DEMO	DEMOLITION/DEMOLISH	MAX	MAXIMUM	TLT	TOILET
DEPT	DEPARTMENT	MED	MEDICAL	TOM	TOP OF MASONRY
DIA	DIAMETER	MEZZ	MEZZANINE	TOP	TOP OF PARAPET
DIAG	DIAGONAL	MID	MIDDLE	TOS	TOP OF SLAB\ TOP OF STEEL
DIM	DIMENSION	MIN	MINIMUM	TOW	TOP OF WALL
DISP	DISPENSER	MISC	MISCELLANEOUS	TS	TRANSITION STRIP
DIST	DISTANCE	MLDG	MOLDING (MOULDING)		
DS	DOWNSPOUT	MOD BIT	MODIFIED BITUMEN	UNFIN	UNFINISHED
DW	DISHWASHER	MR	MOISTURE RESISTANT	UNO	UNLESS NOTED OTHERWISE
		MTL	METAL		
EA	EACH	MW	MICROWAVE	VCT	VINYL COMPOSITION TILE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM			VERT	VERTICAL
EJ	EXPANSION JOINT	N/A	NOT APPLICABLE	VEST	VESTIBULE
EL	ELEVATION	NIC	NOT IN CONTRACT	VIF	VERIFY IN FIELD
ELEC	ELECTRIC(AL)	NO	NUMBER		
ELEM	ELEMENTARY	NOM	NOMINAL	W	WITH
ELEV	ELEVATOR	NTP	NOTICE TO PROCEED	W/O	WITHOUT
EMER	EMERGENCY			WB	WOOD BASE
EOS	EDGE OF SLAB	OC	ON CENTER	WC	WATER CLOSET
EP	EPOXY PAINT	OD	OUTSIDE DIAMETER	WD	WOOD
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)	OFD	OVERFLOW DRAIN	WH	WATER HEATER
EQ	EQUAL	OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED	WP	WALL PROTECTION
EQUIP	EQUIPMENT	OF/OI	OWNER FURNISHED/OWNER INSTALLED	WRB	WATER RESISTANT BARRIER
EQUIV	EQUIVALENT	OPP	OPPOSITE	WSCT	WAINSCOT
ETR	EXISTING TO REMAIN			WWF	WELDED WIRE FABRIC
EWH	ELECTRIC WATER HEATER	P	PAINT	WWM	WELDED WIRE MESH
EXIST	EXISTING	PAT	PATTERN		
EXT	EXTERIOR	PERF	PERFORATED	XPS	EXTRUDED POLYSTYRENE BOARD (INSULATION)
		PERM	PERMANENT		
FA	FIRE ALARM	PERP	PERPENDICULAR		
FCO	FLOOR CLEANOUT	PJ	PANEL JOINT		
FD	FLOOR DRAIN	PLAM	PLASTIC LAMINATE		
FDC	FIRE DEPARTMENT CONNECTION	PLBG	PLUMBING		
FE	FIRE EXTINGUISHER	PLYWD	PLYWOOD		
FEC	FIRE EXTINGUISHER CABINET	POLYISO	POLYISOCYANURATE		
		PORC	PORCELAIN		

ABBREVIATIONS LIST



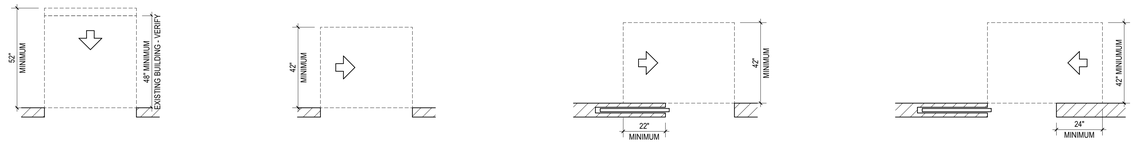
PULL SIDE | PUSH SIDE | PULL SIDE | PUSH SIDE

FRONT APPROACHES | HINGE SIDE APPROACHES



PULL SIDE | PUSH SIDE

LATCH SIDE APPROACHES | DOORS IN A SERIES



FRONT APPROACH | SIDE APPROACH | POCKET OR HINGE APPROACH | STOP OR LATCH APPROACH

DOORWAY W/O DOORS, SLIDING DOORS, AND FOLDING DOORS

MANEUVERING CLEARANCES AT DOORS (ICC/ANSI-2017)

LINE TYPES

BEYOND

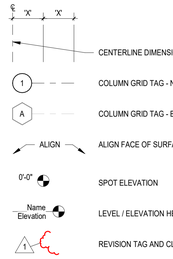
CENTERLINE

DEMOLISHED

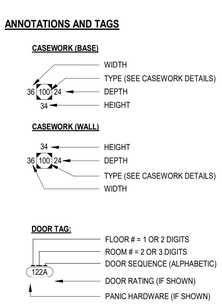
HIDDEN

OVERHEAD

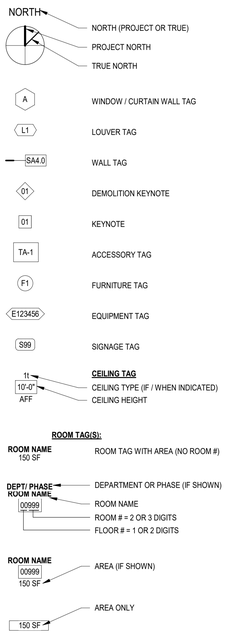
ANNOTATIONS



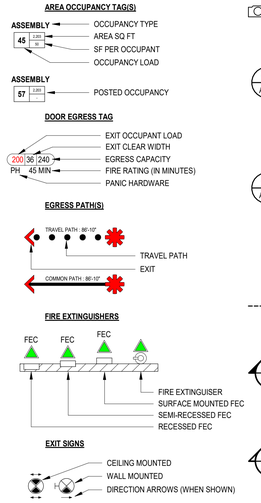
ANNOTATIONS AND TAGS



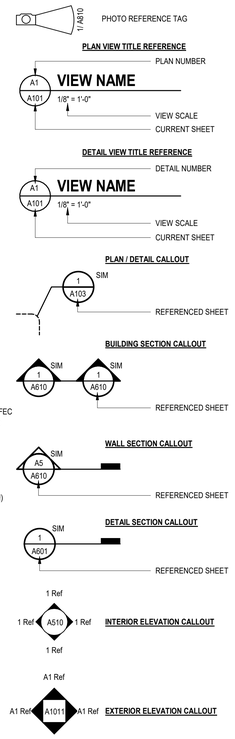
ANNOTATIONS AND TAGS



LIFE SAFETY ANNOTATIONS



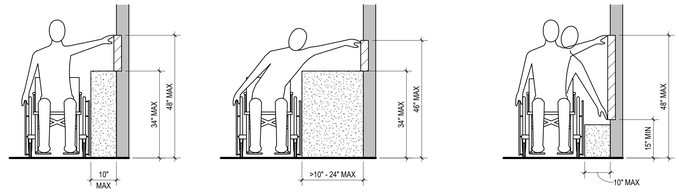
VIEW REFERENCE



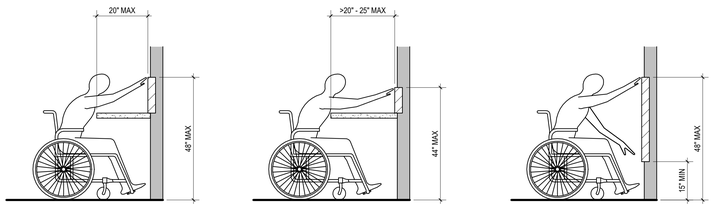
STANDARD GRAPHICS AND SYMBOLS

NOTE:

1. ALL DIMENSIONS SHOWN ARE MINIMUMS. NO CONSTRUCTION, INCLUDING APPLIED WALL BASE OR PROTRUSIONS / ENCROACHMENTS RESULTING FROM "CONSTRUCTION TOLERANCES," WILL BE ACCEPTED WITHIN DASHED REGIONS
2. DIMENSIONS AND CLEARANCES SHOWN MUST BE PROVIDED AT ALL DOORS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REVIEW FIELD LAYOUT AND CONFIRM THAT ALL OF THE APPROPRIATE CLEARANCES ARE PROVIDED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. ANY REMEDIAL WORK THAT SHOULD HAVE BEEN AVOIDED BY BRINGING DISCREPANCIES TO THE ARCHITECT'S ATTENTION SHALL BE AT THE CONTRACTORS EXPENSE.



OBSTRUCTED HIGH SIDE REACH | UNOBSTRUCTED SIDE REACH



OBSTRUCTED HIGH FORWARD REACH | UNOBSTRUCTED FORWARD REACH

REACH RANGES

8/1/2024 8:55:15 AM Autodesk Docs://2024.06.28_AZALEA_O'Kelly Memorial Library/AMD01_O'Kelly Memorial Library_R23.rvt

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

AZALEA REGIONAL LIBRARY SYSTEM

O'KELLY MEMORIAL LIBRARY

LOGANVILLE, GEORGIA

ISSUE DATE: 2024.06.28
PHASE: CONSTRUCTION DOCUMENTS

SHEET ISSUE:

NO.	DATE	DESCRIPTION
A	2024.01.17	SCHEMATIC DESIGN
B	2024.04.10	DESIGN DEVELOPMENT
C	2024.06.28	CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE: DRM
PROJECT ARCHITECT: AMG
DRAWN BY: AMG

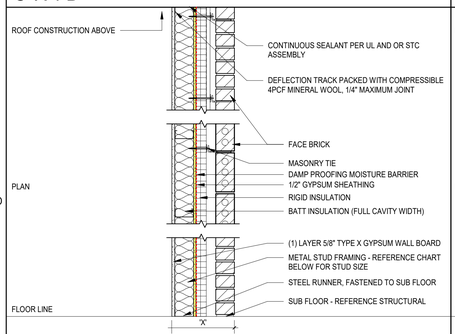
SHEET TITLE:

ABBREVIATION, SYMBOLS AND LEGENDS

SHEET NO. A001

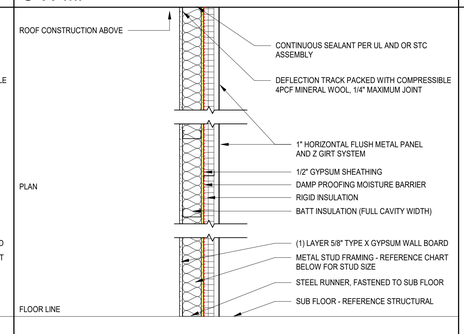
PROJ. NO. 023432

S 'X' FB



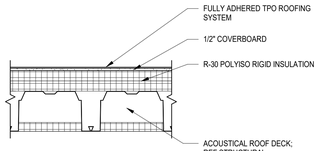
	S2FB	S3FB	S4FB	S6FB
STUD SIZE	2 1/2"	3 5/8"	4"	6"
ACTUAL DIMENSION 'X'	1 1 1/8"	1' 0 1/4"	1' 0 5/8"	1' 2 5/8"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	1 & 2 HR UL - (NO.?)	1 & 2 HR UL - (NO.?)	- -
ACOUSTICAL RATING	- -	- -	- -	- -

S 'X' MP

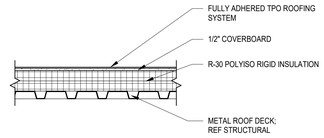


	S6MP
STUD SIZE	6"
ACTUAL DIMENSION 'X'	7 3/4"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -
ACOUSTICAL RATING	- -

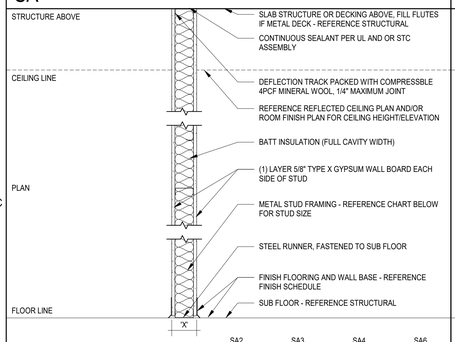
RF-1



RF-2

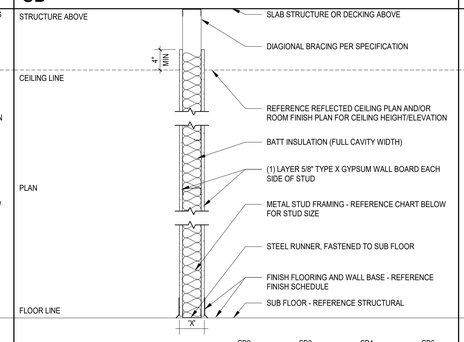


SA



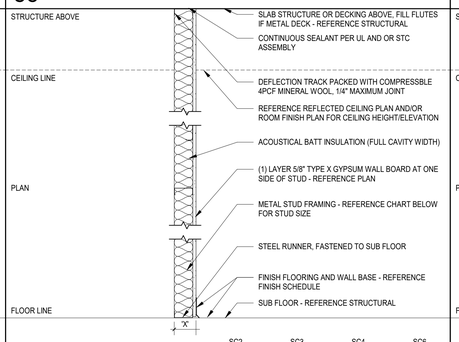
	SA2	SA3	SA4	SA6
STUD SIZE	2 1/2"	3 5/8"	4	6
ACTUAL DIMENSION 'X'	3 3/4"	4 7/8"	5 1/4"	7 1/4"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -	- -	- -
ACOUSTICAL RATING	- -	- -	- -	- -

SB



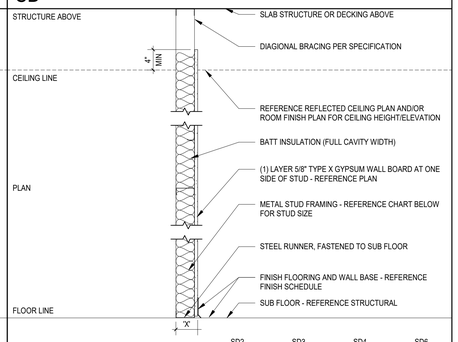
	SB2	SB3	SB4	SB6
STUD SIZE	2 1/2"	3 5/8"	4"	6
ACTUAL DIMENSION 'X'	3 3/4"	4 7/8"	5 1/4"	7 1/4"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -	- -	- -
ACOUSTICAL RATING	- -	- -	- -	- -

SC



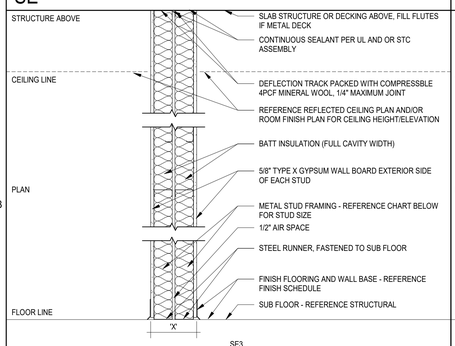
	SC2	SC3	SC4	SC6
STUD SIZE	2 1/2"	3 5/8"	4"	6
ACTUAL DIMENSION 'X'	3 1/8"	4 1/4"	4 5/8"	6 5/8"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -	- -	- -
ACOUSTICAL RATING	- -	- -	- -	- -

SD



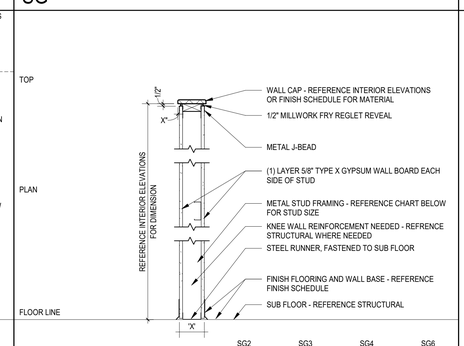
	SD2	SD3	SD4	SD6
STUD SIZE	2 1/2"	3 5/8"	4"	6
ACTUAL DIMENSION 'X'	3 1/8"	4 1/4"	4 5/8"	6 5/8"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -	- -	- -
ACOUSTICAL RATING	- -	- -	- -	- -

SE



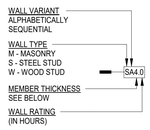
	SE3
STUD SIZE	3 5/8"
ACTUAL DIMENSION 'X'	9"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -
ACOUSTICAL RATING	- -

SG



	SG2	SG3	SG4	SG6
STUD SIZE	2 1/2"	3 5/8"	4"	6"
ACTUAL DIMENSION 'X'	3 3/4"	4 7/8"	5 1/4"	7 1/4"
FIRE RESISTANCE AND DESIGN NUMBER (SEE LIFE SAFETY FOR RATED ASSEMBLY LOCATIONS)	- -	- -	- -	- -
ACOUSTICAL RATING	- -	- -	- -	- -

WALL TAG LEGEND



FURRING	STEEL STUD	WOOD STUD	SHAFT WALL	MASONRY
L - LAMINATED	1 - 1 5/8" STUD	2 - 1 1/2" x 1 1/2" NAILER	2 - 2 1/2" SHAFT STUD	4 - 3 5/8" CMU
0 - 7/8" HAT	2 - 2 1/2" STUD	4 - 1 1/2" x 3 1/2" STUD	4 - 4" SHAFT STUD	6 - 5 5/8" CMU
1 - 1 1/2" HAT	3 - 3 5/8" STUD	6 - 1 1/2" x 5 1/2" STUD	6 - 6" SHAFT STUD	8 - 7 5/8" CMU
	4 - 4" STUD	8 - 1 1/2" x 7 1/4" STUD		10 - 9 5/8" CMU
	6 - 6" STUD	12 - 1 1/2" x 11 1/4" STUD		12 - 11 5/8" CMU
	8 - 8" STUD			

WALL FRAMING PRIORITY

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

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

GENERAL PARTITION NOTES

A. PLAN DIMENSIONS ARE FACE OF STUD, CMU OR FINISH FACE OF EXISTING WALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE
B. GYPSUM WALL BOARD LAYERS ON RATED WALLS SHALL BE CONTINUOUS THROUGH ALL INTERSECTIONS WITH NON-RATED WALLS. REFER TO FIRE WALL PRIORITY DIAGRAM.
C. REFERENCE ALL FLOOR PLANS AND LIFE SAFETY PLANS FOR RATED WALL LOCATIONS AND RATINGS.
D. PROVIDE TYPE X, MOLD AND MOISTURE RESISTANT GYPSUM WALL BOARD IN ALL TOILET AND JANITOR ROOMS.
E. PROVIDE CEMENT BOARD IN ALL WET SHOWER AREA WALLS WITH TILE FINISH.
F. PROVIDE IMPACT RESISTANT GYPSUM WALL BOARD UP TO 4'-0" IN ALL LOBBIES, CORRIDORS, AND STAIRWELLS.
G. AT ALL JOINTS AT TOP OF ALL FIRE RATED PARTITIONS: PROVIDE COMPLETE UL LISTED FIRE RESISTIVE JOINT SYSTEM TO MATCH FIRE RESISTANCE OF WALL ASSEMBLY AND THAT IS ALSO COMPATIBLE WITH JOINT SUBSTRATES.
H. ANY PORTION OF GYPSUM WALL BOARD THAT BECOMES WET OR SHOWS SIGNS OF MOISTURE DAMAGE, EITHER BEFORE OR AFTER INSTALLATION, IS TO BE REMOVED IMMEDIATELY AND REPLACED WITH NEW DRY GYPSUM WALL BOARD.
I. INTERIOR PARTITIONS MAY HAVE ADDITIONAL FINISHES. REFERENCE FINISH SCHEDULE AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
J. PROVIDE PROJECT SPECIFIC DELEGATED DESIGN DATA INCLUDING STUD SPACING, STUD GAUGE, BRACING AND DEFLECTION.
K. SOUND ATTENUATION BLANKET IS REQUIRED AT ALL INTERIOR PARTITIONS AND SHALL RUN FULL HEIGHT OF PARTITION UNLESS NOTED OTHERWISE. SOUND ATTENUATION BATT SHALL BE AS FOLLOWS:
   a. FIRE RESISTANT PARTITIONS: MINERAL WOOL SOUND ATTENUATION FIRE BLANKET (SAFB) - FULL STUD DEPTH
   b. NON-RATED PARTITIONS: UNFACED FIBERGLASS SOUND ATTENUATION BATTS (SAB) - FULL STUD DEPTH
L. MINOR WALLS OR OTHER WALLS NOT TAGGED WILL BE OF THE SAME WALL TYPE AS ADJACENT WALLS (UNLESS OTHERWISE NOTED).
M. COORDINATE AND PROVIDE ALL REQUIRED BLOCKING WITHIN THE WALLS. THIS INCLUDES BUT IS NOT LIMITED TO, ALL MILLWORK, CASEWORK, GRAB BARS, MONITORS, AND TOILET PARTITIONS.
N. INSTALL GYPSUM WALL BOARD ON INTERIOR PARTITIONS WITH A MINIMUM 1/4" GAP BETWEEN THE GYPSUM WALL BOARD AND THE FINISHED FLOOR.
O. AT RATED PARTITIONS AND CEILINGS, INSTALL CONTROL JOINTS PER THE TESTED ASSEMBLIES.

CONTROL JOINT NOTES

GYPSUM WALL BOARD:

LOCATE CONTROL JOISTS AS FOLLOWS:

A. PROVIDE CONTROL JOINTS IN WIDTHS NO GREATER THAN 30'-0" OC, BUT NO LESS THAN 16'-0".

B. INSTALL CONTROL JOINTS ACCORDING TO ASTM C 840 AND IN SPECIFIC LOCATIONS APPROVED BY ARCHITECT FOR VISUAL EFFECT.

C. SUBMIT CONTROL JOINT LOCATION PLAN TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION.

D. PROVIDE CONTROL JOINTS ABOVE DOOR JAMBS WHENEVER POSSIBLE.

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

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O'KELLY MEMORIAL LIBRARY

LOGANVILLE, GEORGIA

ISSUE DATE: 2024.06.28
PHASE: CONSTRUCTION DOCUMENTS

SHEET ISSUE:

NO.	DATE	DESCRIPTION
B	2024.04.10	DESIGN DEVELOPMENT
C	2024.06.28	CONSTRUCTION DOCS PRICING

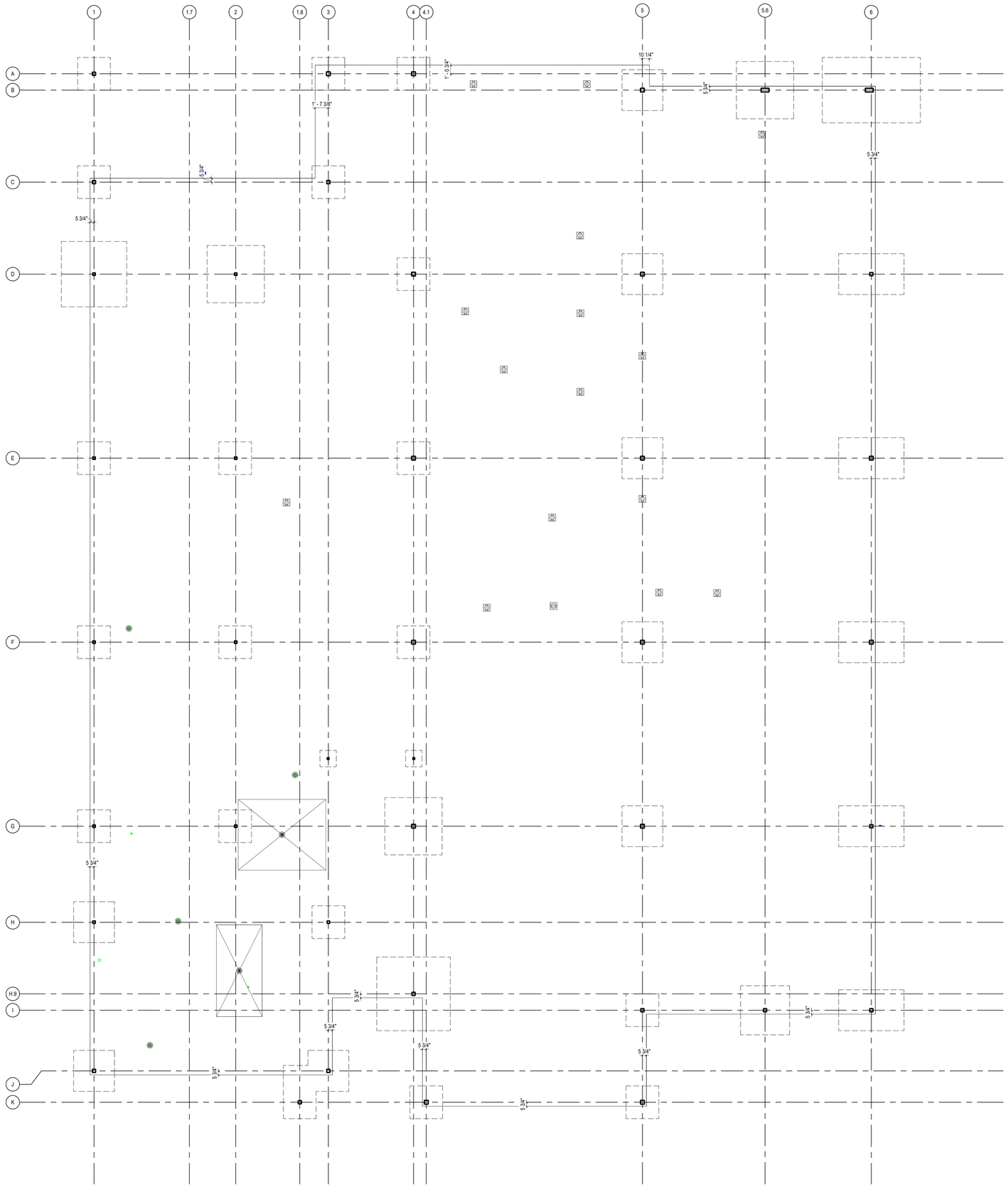
PRINCIPAL IN CHARGE: DRM
PROJECT ARCHITECT: AMG
DRAWN BY: KW

SHEET TITLE:

WALL AND ROOF ASSEMBLIES

SHEET NO. A003

PROJ. NO. 023432



A5 / A100 **EDGE OF SLAB PLAN**

3/16" = 1'-0"

EDGE OF SLAB LEGEND

- SLOPE TO DRAIN FROM 1/8" PER 12"
- FLOOR DRAIN, CENTERED TO ROOM UNLESS OTHERWISE NOTED
- FLOOR BOX LOCATIONS TO BE FINALIZED WITH INTERIORS FINAL FURNITURE AND EQUIPMENT PACKAGE, REFER TO ELECTRICAL FOR TYPES

mcmillan pazdan smith ARCHITECTURE

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SEALS

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LOGANVILLE, GEORGIA

ISSUE DATE:	2024.06.28
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SHEET ISSUE:

NO.	DATE	DESCRIPTION
C	2024.06.28	CONSTRUCTION DOCS PRICING

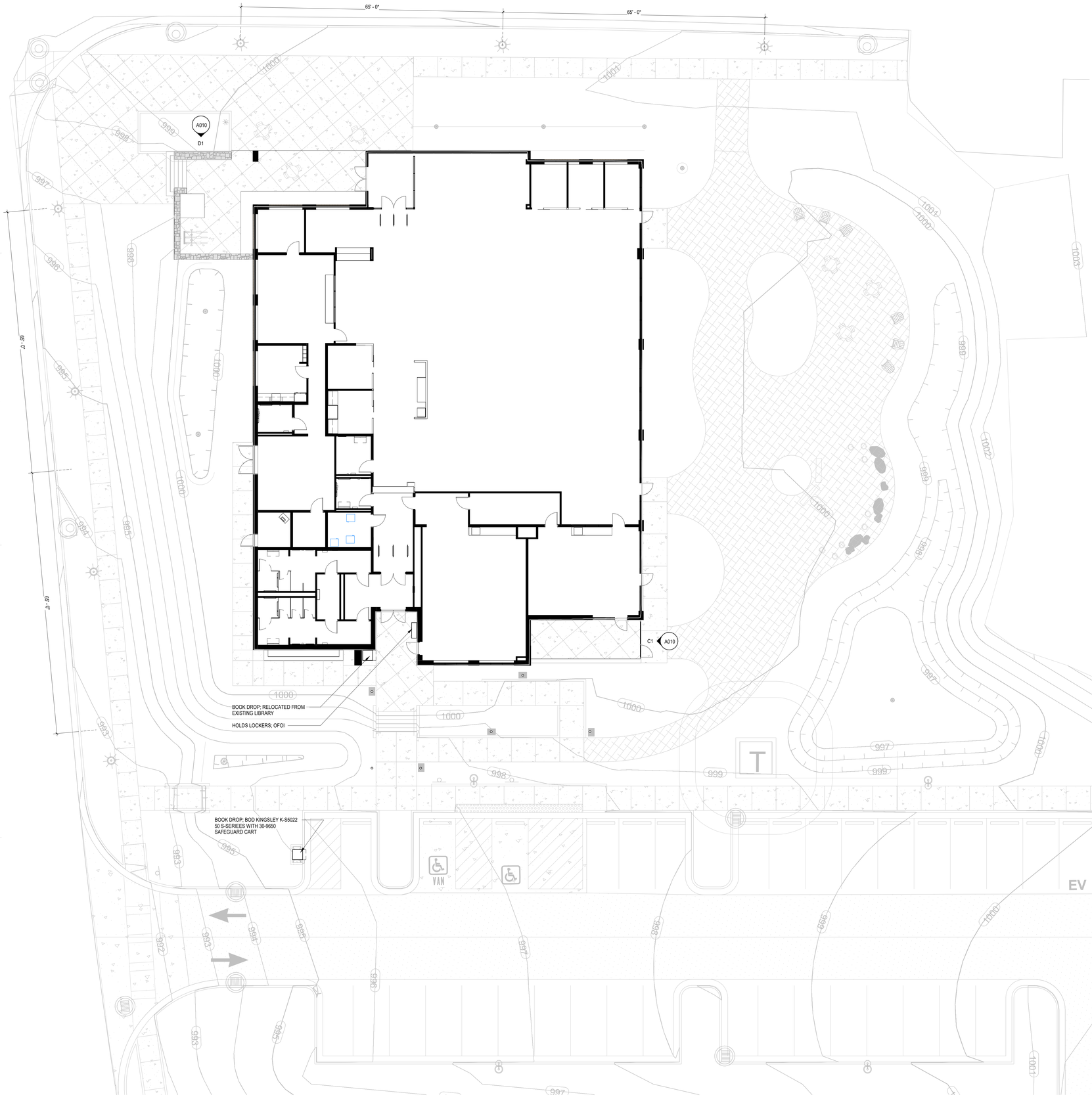
PRINCIPAL IN CHARGE:	DRM
PROJECT ARCHITECT:	AMG
DRAWN BY:	KW

SHEET TITLE:

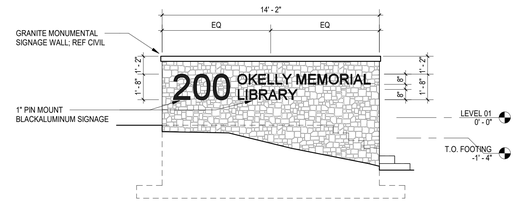
EDGE OF SLAB PLAN

SHEET NO. A100

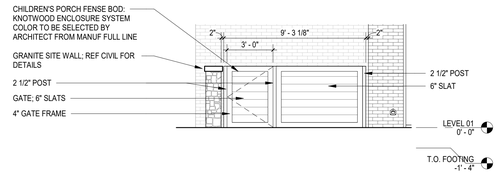
PROJ. NO. 023432



A5 / A010 **ARCHITECTURAL SITE PLAN**
1" = 10'-0"



D1 / A010 **MONUMENTAL SIGNAGE ELEVATION**
1/4" = 1'-0"



C1 / A010 **CHILDREN'S PORCH RAILING ELEVATION**
1/4" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

AZALEA REGIONAL LIBRARY SYSTEM

O'KELLY MEMORIAL LIBRARY

LOGANVILLE, GEORGIA

ISSUE DATE: 2024.06.28
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SHEET ISSUE:

NO.	DATE	DESCRIPTION
B	2024.04.10	DESIGN DEVELOPMENT
C	2024.06.28	CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE: DRM
PROJECT ARCHITECT: AMG
DRAWN BY: KW

SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NO. A010
PROJ. NO. 023432