

SECTION 074113.16 - STANDING-SEAM METAL ROOF PANELS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes standing-seam metal roof panels.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.
- B. Shop Drawings:
 - 1. Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
 - 2. Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of not less than 1-1/2 inches per 12 inches (1:10).
- C. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.
 - 1. Metal Panels: 12 inches (305 mm) long by actual panel width. Include clips, fasteners, closures, and other metal panel accessories.

1.4 INFORMATIONAL SUBMITTALS

- A. Sample Warranties: For special warranties.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.
- B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.

- C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.
- D. Retain strippable protective covering on metal panels during installation.

1.6 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed according to manufacturers' written instructions and warranty requirements.

1.7 COORDINATION

- A. Coordinate sizes and locations of roof curbs, equipment supports, and roof penetrations with actual equipment provided.
- B. Coordinate metal panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
- B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
- C. Special Weathertightness Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace standing-seam metal roof panel assemblies that fail to remain weathertight, including leaks, within specified warranty period.

PART 2 - PRODUCTS

2.1 STANDING-SEAM METAL ROOF PANELS

- A. General: Provide factory-formed metal roof panels designed to be installed by lapping and interconnecting raised side edges of adjacent panels with joint type indicated and mechanically attaching panels to supports using concealed clips in side laps. Include clips, cleats, pressure plates, and accessories required for weathertight installation.
 - 1. Unless more stringent requirements are indicated, comply with ASTM E1514.

- B. Vertical-Rib, Seamed-Joint, Standing-Seam Metal Roof Panels. Formed with vertical ribs at panel edges and a flat pan between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of panels, engaging opposite edge of adjacent panels, and mechanically seaming panels together.
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Advanced Architectural Products.
 - b. AEP Span; A BlueScope Steel Company.
 - c. ATAS International, Inc.
 - d. CENTRIA Architectural Systems.
 - e. Firestone Building Products.
 - f. Morin - A Kingspan Group Company.
 - g. Ultra Seam Incorporated.
 2. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A653/A653M, G90 (Z275) coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A792/A792M, Class AZ50 (Class AZM150) coating designation; structural quality. Prepainted by the coil-coating process to comply with ASTM A755/A755M.
 - a. Nominal Thickness: 0.025 inch (0.635 mm)
 - b. Exterior Finish: Thermoplastic fluoropolymer
 - c. Color: As selected by Architect from manufacturer's full range.
 3. Clips: One-piece fixed to accommodate thermal movement.
 - a. Material: 0.025-inch- (0.635-mm) nominal thickness, zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet.
 4. Joint Type: As standard with manufacturer.
 5. Panel Coverage: 16 inches (406 mm)
 6. Panel Height: 1.5 inches (38 mm)

2.2 UNDERLAYMENT MATERIALS

- A. Self-Adhering, High-Temperature Underlayment: Provide self-adhering, cold-applied, sheet underlayment, a minimum of 30 mils (0.76 mm) thick, consisting of slip-resistant, polyethylene-film top surface laminated to a layer of butyl or SBS-modified asphalt adhesive, with release-paper backing. Provide primer when recommended by underlayment manufacturer.
1. Thermal Stability: Stable after testing at 240 deg F (116 deg C); ASTM D1970.
 2. Low-Temperature Flexibility: Passes after testing at minus 20 deg F (29 deg C); ASTM D1970.
 3. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

- a. Carlisle Residential; a division of Carlisle Construction Materials.
- b. Drexel Metals.
- c. GCP Applied Technologies Inc.
- d. Owens Corning.

2.3 MISCELLANEOUS MATERIALS

- A. Miscellaneous Metal Subframing and Furring: ASTM C645; cold-formed, metallic-coated steel sheet, ASTM A653/A653M, G90 (Z275 hot-dip galvanized) coating designation or ASTM A792/A792M, Class AZ50 (Class AZM150) coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
- B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
 1. Closures: Provide closures at eaves and ridges, fabricated of same metal as metal panels.
 2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
 3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch- (25-mm-) thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
- C. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.
- D. Gutters: Formed from same material as roof panels, complete with end pieces, outlet tubes, and other special pieces as required. Fabricate in minimum 96-inch- (2400-mm-) long sections, of size and metal thickness according to SMACNA's "Architectural Sheet Metal Manual." Furnish gutter supports spaced a maximum of 36 inches (914 mm) o.c., fabricated from same metal as gutters. Provide wire ball strainers of compatible metal at outlets. Finish gutters to match metal roof panels.
- E. Downspouts: Formed from same material as roof panels. Fabricate in 10-foot- (3-m-) long sections, complete with formed elbows and offsets, of size and metal thickness according to SMACNA's "Architectural Sheet Metal Manual." Finish downspouts to match gutters.
- F. Roof Curbs: Fabricated from same material as roof panels, 0.048-inch (1.2-mm) thickness; with bottom of skirt profiled to match roof panel profiles and with welded top box and integral full-length cricket. Fabricate curb subframing of 0.060-inch- (1.52-mm-) nominal thickness, angle-, C-, or Z-shaped steel sheet. Fabricate curb and subframing to withstand indicated loads of size and height indicated. Finish roof curbs to match metal roof panels.
 1. Insulate roof curb with 1-inch- (25-mm-) thick, rigid insulation.

- G. Panel Fasteners: Self-tapping screws designed to withstand design loads.
- H. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.
 - 1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch (13 mm) wide and 1/8 inch (3 mm) thick.
 - 2. Joint Sealant: ASTM C920; elastomeric polyurethane or silicone sealant; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended in writing by metal panel manufacturer.
 - 3. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C1311.

2.4 FABRICATION

- A. General: Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
- B. On-Site Fabrication: Subject to compliance with requirements of this Section, metal panels may be fabricated on-site using UL-certified, portable roll-forming equipment if panels are of same profile and warranted by manufacturer to be equal to factory-formed panels. Fabricate according to equipment manufacturer's written instructions and to comply with details shown.
- C. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.
- D. Fabricate metal panel joints with factory-installed captive gaskets or separator strips that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.
- E. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.
 - 1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
 - 2. Seams: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.
 - 3. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
 - 4. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
 - 5. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.

- a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal panel manufacturer for application, but not less than thickness of metal being secured.

2.5 FINISHES

- A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in same piece are unacceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Steel Panels and Accessories:
 1. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 2. Three-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 3. Mica Fluoropolymer: AAMA 621. Two-coat fluoropolymer finish with suspended mica flakes containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 4. Metallic Fluoropolymer: AAMA 621. Three-coat fluoropolymer finish with suspended metallic flakes containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 5. FEVE Fluoropolymer: AAMA 621. Two-coat fluoropolymer finish containing 100 percent fluorinated ethylene vinyl ether resin in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 6. Siliconized Polyester: Epoxy primer and silicone-modified, polyester-enamel topcoat; with a dry film thickness of not less than 0.2 mil (0.005 mm) for primer and 0.8 mil (0.02 mm) for topcoat.
 7. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil (0.013 mm).

PART 3 - EXECUTION

3.1 PREPARATION

- A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C754 and metal panel manufacturer's written recommendations.

3.2 UNDERLAYMENT INSTALLATION

- A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated below, wrinkle free, in shingle fashion to shed water, and with end laps of not less than 6 inches (152 mm) staggered 24 inches (610 mm) between courses. Overlap side edges not less than 3-1/2 inches (90 mm). Extend underlayment into gutter trough. Roll laps with roller. Cover underlayment within 14 days.

~~1. Apply over the entire roof surface.~~

2.1. Apply over the roof area indicated below:

- a. Roof perimeter for a distance up from eaves of 24 inches (610 mm) beyond interior wall line.
- b. Valleys, from lowest point to highest point, for a distance on each side of 18 inches (460 mm). Overlap ends of sheets not less than 6 inches (152 mm).
- c. Hips and ridges for a distance on each side of 12 inches (305 mm)
- d. Roof-to-wall intersections for a distance from wall of 18 inches (460 mm)
- e. Around dormers, chimneys, skylights, and other penetrating elements for a distance from element of 18 inches (460 mm)
- e-f. And any other roof area over conditioned space

- B. Flashings: Install flashings to cover underlayment to comply with requirements specified in Section 076200 "Sheet Metal Flashing and Trim."

3.3 METAL PANEL INSTALLATION

- A. General: Install metal panels according to manufacturer's written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to supports unless otherwise indicated. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.

1. Shim or otherwise plumb substrates receiving metal panels.
2. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air- or water-resistive barriers and flashings that will be concealed by metal panels are installed.
3. Install screw fasteners in predrilled holes.
4. Locate and space fastenings in uniform vertical and horizontal alignment.
5. Install flashing and trim as metal panel work proceeds.

6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
 7. Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
 8. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.
- B. Fasteners: Use stainless-steel fasteners for surfaces exposed to the exterior; use galvanized-steel fasteners for surfaces exposed to the interior.
- C. Anchor Clips: Anchor metal roof panels and other components of the Work securely in place, using manufacturer's approved fasteners according to manufacturers' written instructions.
- D. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.
- E. Standing-Seam Metal Roof Panel Installation: Fasten metal roof panels to supports with concealed clips at each standing-seam joint at location, spacing, and with fasteners recommended in writing by manufacturer.
1. Install clips to supports with self-tapping fasteners.
 2. Install pressure plates at locations indicated in manufacturer's written installation instructions.
 3. Seamed Joint: Crimp standing seams with manufacturer-approved, motorized seamer tool so clip, metal roof panel, and factory-applied sealant are completely engaged.
 4. Watertight Installation:
 - a. Apply a continuous ribbon of sealant or tape to seal joints of metal panels, using sealant or tape as recommend in writing by manufacturer as needed to make panels watertight.
 - b. Provide sealant or tape between panels and protruding equipment, vents, and accessories.
 - c. At panel splices, nest panels with minimum 6-inch (152-mm) end lap, sealed with sealant and fastened together by interlocking clamping plates.
- F. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
1. Install components required for a complete metal panel system including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal roof panel manufacturers; or, if not indicated, types recommended by metal roof panel manufacturer.
- G. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.
1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet

metal flashing and trim to fit substrates and achieve waterproof and weather-resistant performance.

2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet (3 m) with no joints allowed within 24 inches (610 mm) of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently weather resistant and waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with mastic sealant (concealed within joints).

- H. Gutters: Join sections with riveted and soldered or lapped and sealed joints. Attach gutters to eave with gutter hangers spaced not more than 36 inches (914 mm) o.c. using manufacturer's standard fasteners. Provide end closures and seal watertight with sealant. Provide for thermal expansion.
- I. Downspouts: Join sections with telescoping joints. Provide fasteners designed to hold downspouts securely 1 inch (25 mm) away from walls; locate fasteners at top and bottom and at approximately 60 inches (1524 mm) o.c. in between.
 1. Provide elbows at base of downspouts to direct water away from building.
 2. Connect downspouts to underground drainage system indicated.
- J. Roof Curbs: Install flashing around bases where they meet metal roof panels.
- K. Pipe Flashing: Form flashing around pipe penetration and metal roof panels. Fasten and seal to metal roof panels as recommended by manufacturer.

3.4 ERECTION TOLERANCES

- A. Installation Tolerances: Shim and align metal panel units within installed tolerance of 1/4 inch in 20 feet (6 mm in 6 m) on slope and location lines as indicated and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.

3.5 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
- B. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 074113.16

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**DAWSON
COUNTY
SENIOR
CENTER**

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Revisions

No.	Date	Description
2	05/16/2019	ADDENDUM 2

RELEASED FOR CONSTRUCTION

DATE July 02, 2018

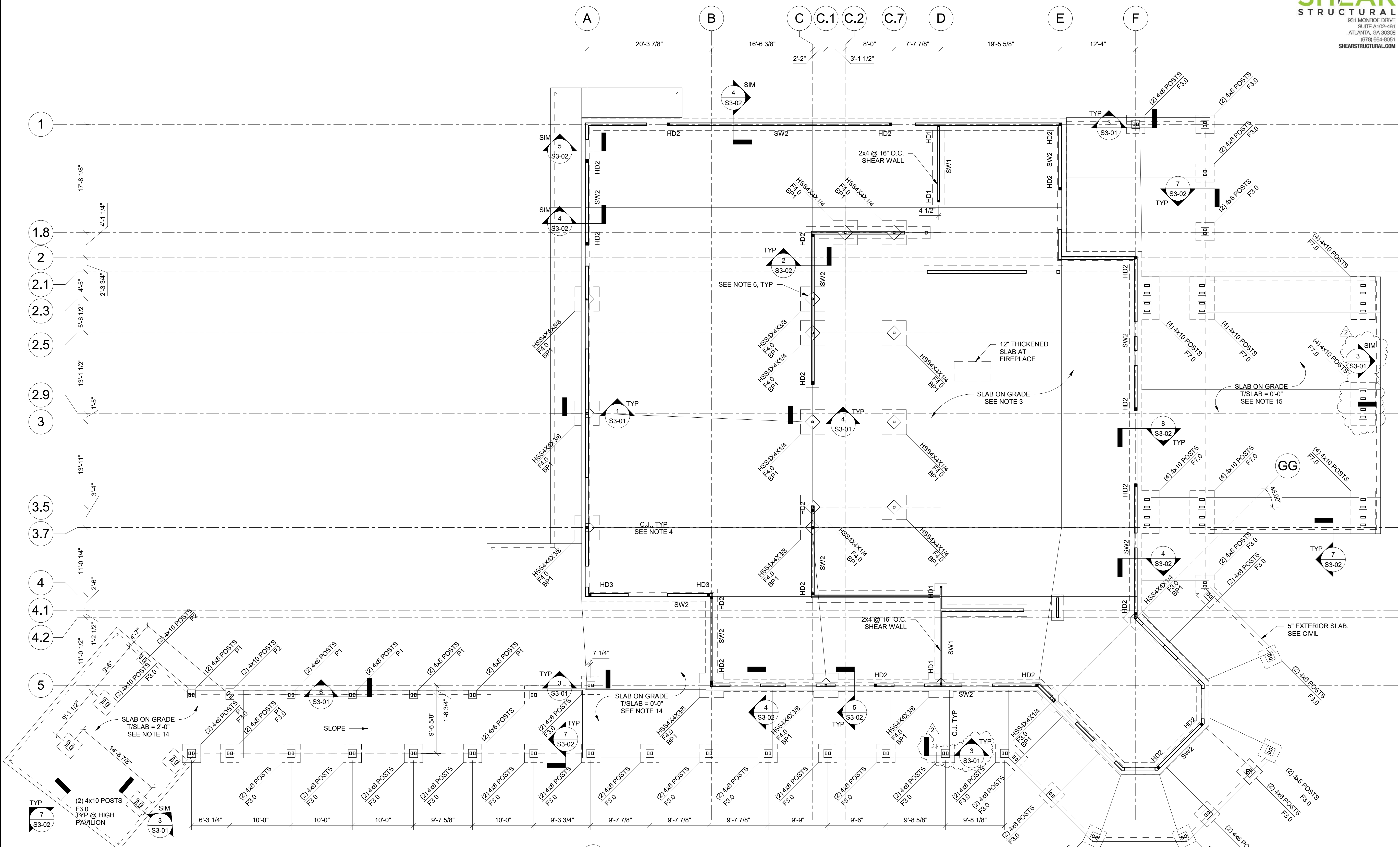
PROJECT NUMBER 1816000.000

SHEET TITLE

FOUNDATION PLAN

SHEET NUMBER

S1-10



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

- NOTES:
- SEE S0-01 FOR GENERAL NOTES.
 - SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
 - T/SLAB REFERENCE EL = 0'-0". PROVIDE 4" SLAB ON GRADE REINFORCED WITH WWF 6x6 W2.1xW2.1 ON VAPOR BARRIER AND 4" GRANULAR BASE.
 - C.J. INDICATES SLAB CONTROL JOINT. SEE 3/S3-02 AND GENERAL NOTES FOR ADDITIONAL INFORMATION.
 - PROVIDE REINFORCEMENT AT RE-ENTRANT CORNERS. SEE 6/S3-02.
 - PROVIDE ISOLATION JOINTS AT STEEL COLUMNS. SEE DETAIL 9/S3-02.
 - ALL WALLS SHOWN ARE LOAD BEARING WALLS. PROVIDE 2x6 @ 16" O.C. FOR ALL EXTERIOR AND TRUSS BEARING WALLS, UNO.
 - SW INDICATES SHEAR WALL. SEE 2/S6-01.
 - SWfx INDICATES SHEAR WALL FOOTING SIZE. SEE 4/S3-02.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING LOCATION OF ALL UTILITY AND PLUMBING LINES, SEE 10/S3-02.
 - HD INDICATES HOLD DOWN. SEE 11/S3-02.
 - BPx INDICATES STEEL COLUMN BASE PLATE. SEE 1/S6-01.
 - Fx INDICATES FOOTING SIZE. SEE 2/S3-01. T/FTG EL = -1'-4" BASED ON FIRST FLOOR REFERENCE ELEVATION = 0'-0". UNO.
 - Px INDICATES PILASTER SIZE. SEE 6/S3-01.
 - PROVIDE 4" SLAB ON GRADE REINFORCED WITH WWF 6x6 W2.1xW2.1 ON 4" GRANULAR BASE AT EXTERIOR SLABS TYPICAL UNO.
 - PROVIDE 5" SLAB ON GRADE REINFORCED WITH WWF 6x6 W2.9xW2.9 ON 4" GRANULAR BASE AT PORTE COCHERE.



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DAWSON COUNTY SENIOR CENTER
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2018-06-01 DESIGN DEVELOPMENT 100%
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Revisions

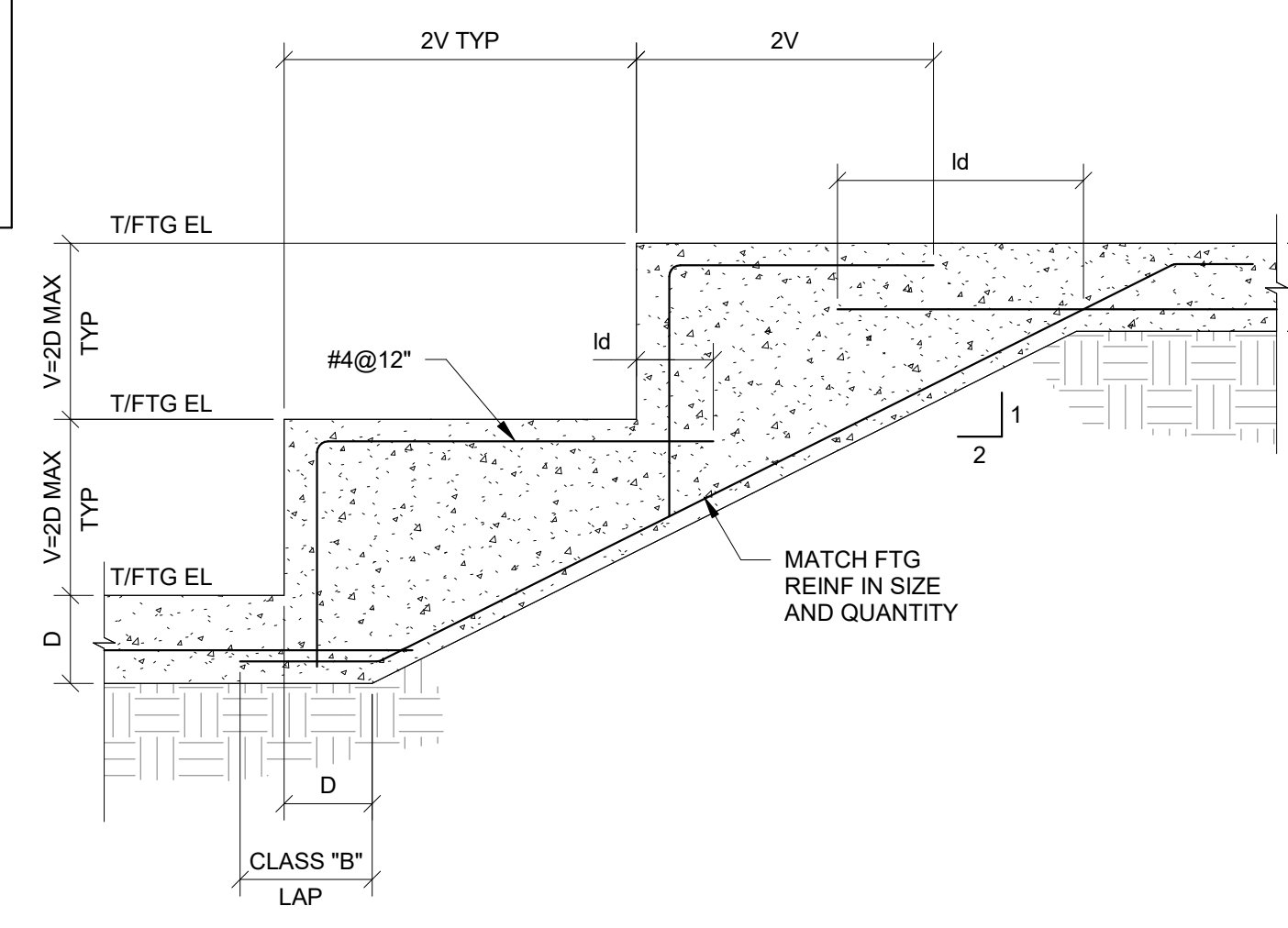
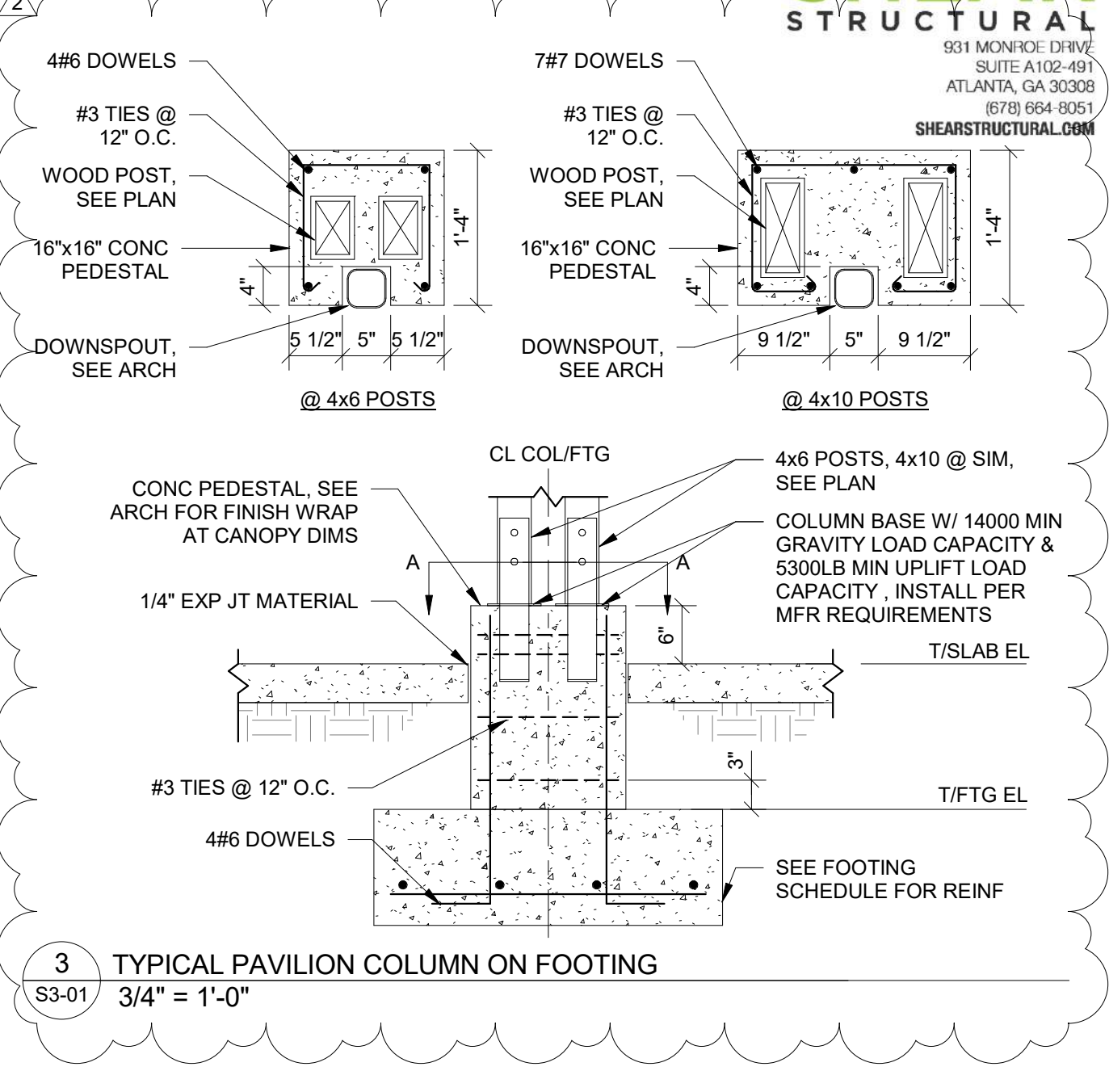
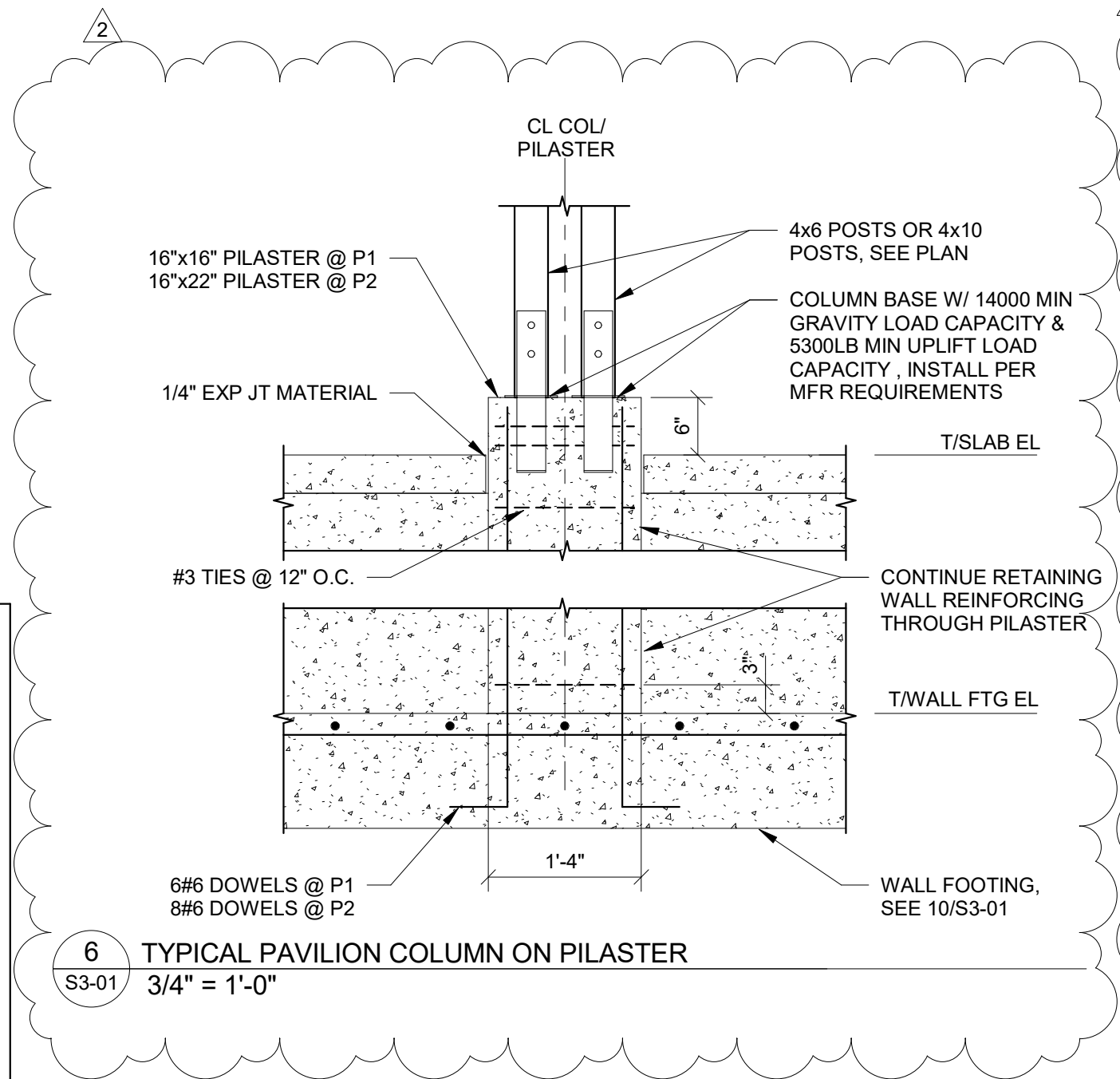
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2	05/16/2019	ADDENDUM 2

RELEASED FOR CONSTRUCTION

DATE July 02, 2018
PROJECT NUMBER 1816000.000

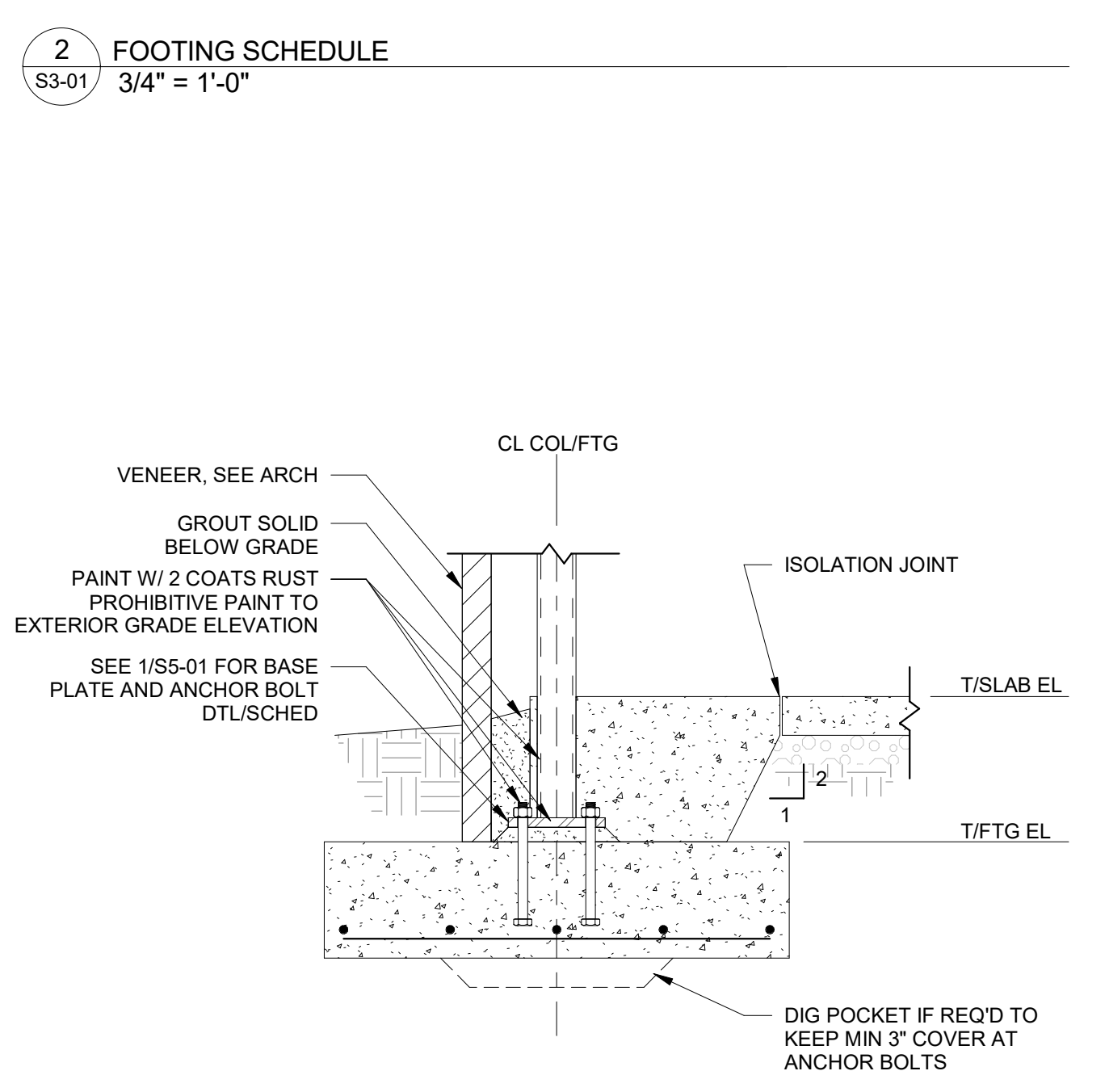
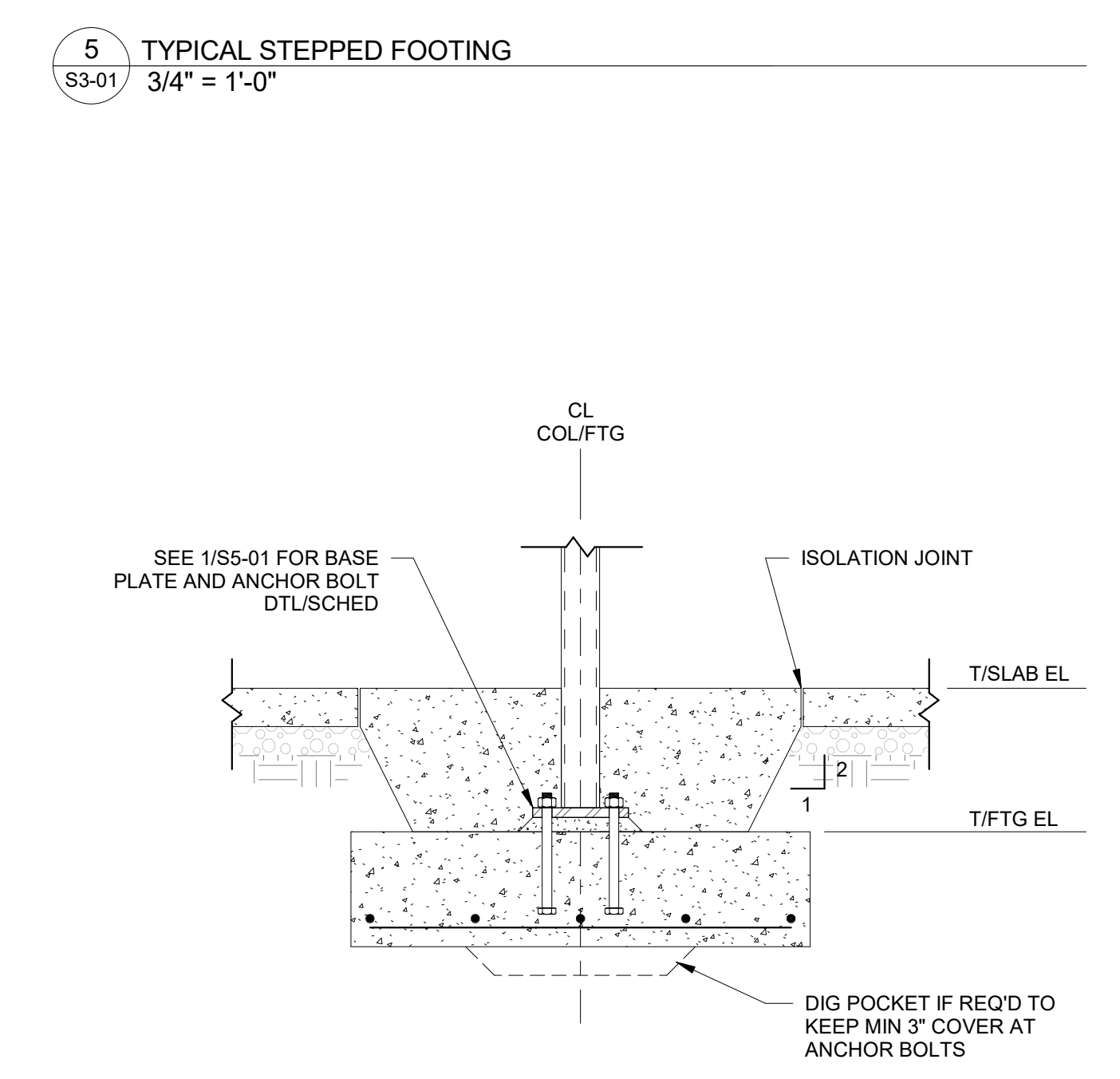
SHEET TITLE
FOUNDATION DETAILS

SHEET NUMBER
S3-01



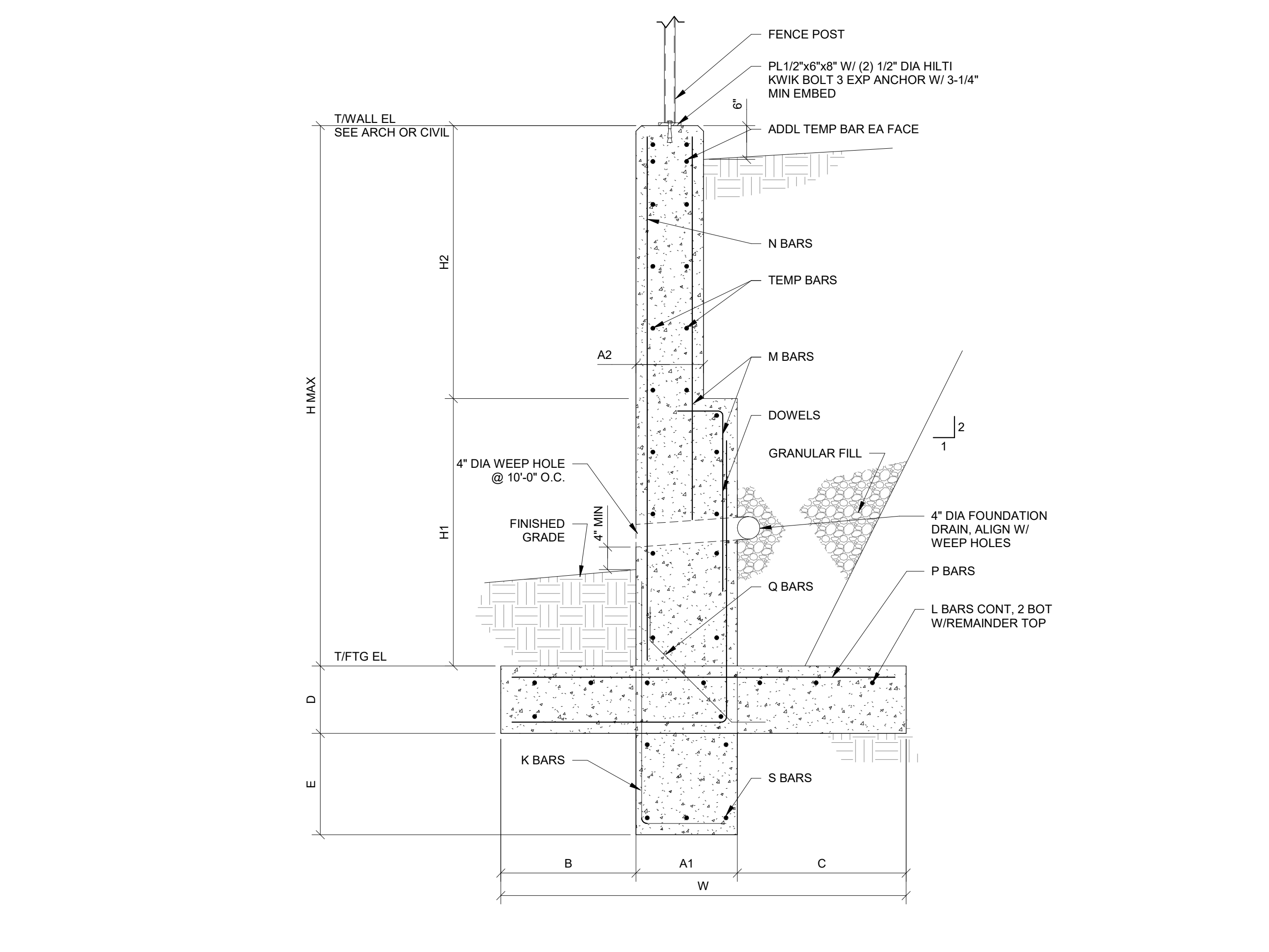
FOOTING SCHEDULE			
MARK	SIZE (WxLxT)	REINF	REMARKS
F3.0	3'-0"x3'-0"x12"	3#5 EW	BOTTOM
F4.0	4'-0"x4'-0"x12"	4#5 EW	BOTTOM
F7.0	7'-0"x4'-0"x12"	4#5 LONG 7#6 SHORT	BOTTOM

2 FOOTING SCHEDULE
3/4" = 1'-0"



WALL REINFORCING SCHEDULE																		
MAX HEIGHT	WALL		BASE							REINFORCING BARS								
	H1	H2	W	A1	A2	B	C	D	E	DOWELS	M	N	TEMP	P	Q	K	L	S
32'-0"	15'-0"	17'-0"	26'-6"	34"	18"	11'-9"	11'-11"	36"	3'-6"	#10@4	#10@4	#6@12	@6@12	#10@9	#8@12	#8@12	26#8	9#5
28'-0"	11'-0"	17'-0"	22'-3"	26"	18"	10'-0"	10'-1"	30"	3'-0"	#10@4	#10@4	#6@12	@6@12	#10@9	#8@12	#8@12	20#8	6#5
24'-0"	7'-0"	17'-0"	17'-3"	22"	18"	7'-9"	7'-8"	24"	3'-0"	#9@6	#9@6	#6@12	@6@12	#10@12	#7@12	#7@12	15#7	5#5
20'-0"	-	-	14'-3"	18"	-	6'-6"	6'-3"	24"	2'-6"	#9@6	#9@6	#6@12	@6@12	#9@12	#7@12	#7@12	13#7	4#5
16'-0"	-	-	11'-6"	18"	-	4'-6"	5'-6"	24"	1'-4"	#9@9	#9@9	#5@12	@5@12	#7@12	#7@12	#7@12	14#6	3#5
12'-0"	-	-	9'-0"	12"	-	3'-6"	4'-6"	24"	-	#9@12	#9@12	#5@12	@5@12	#7@12	-	-	11#6	-
8'-0"	-	-	7'-3"	12"	-	3'-0"	3'-3"	24"	-	#7@12	#7@12	#5@12	@5@12	#6@12	-	-	13#5	-

NOTE:
FOR INFORMATION NOT SHOWN, SEE ARCH AND CIVIL



10 TYPICAL RETAINING WALL
3/4" = 1'-0"

4/03/2019 2:45:12 PM SHEET NAME: COVER SHEET NUMBER: G-1 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION

SITE DEVELOPMENT PLANS FOR:

DAWSON COUNTY SENIOR CENTER EXPANSION

201 RECREATION RD

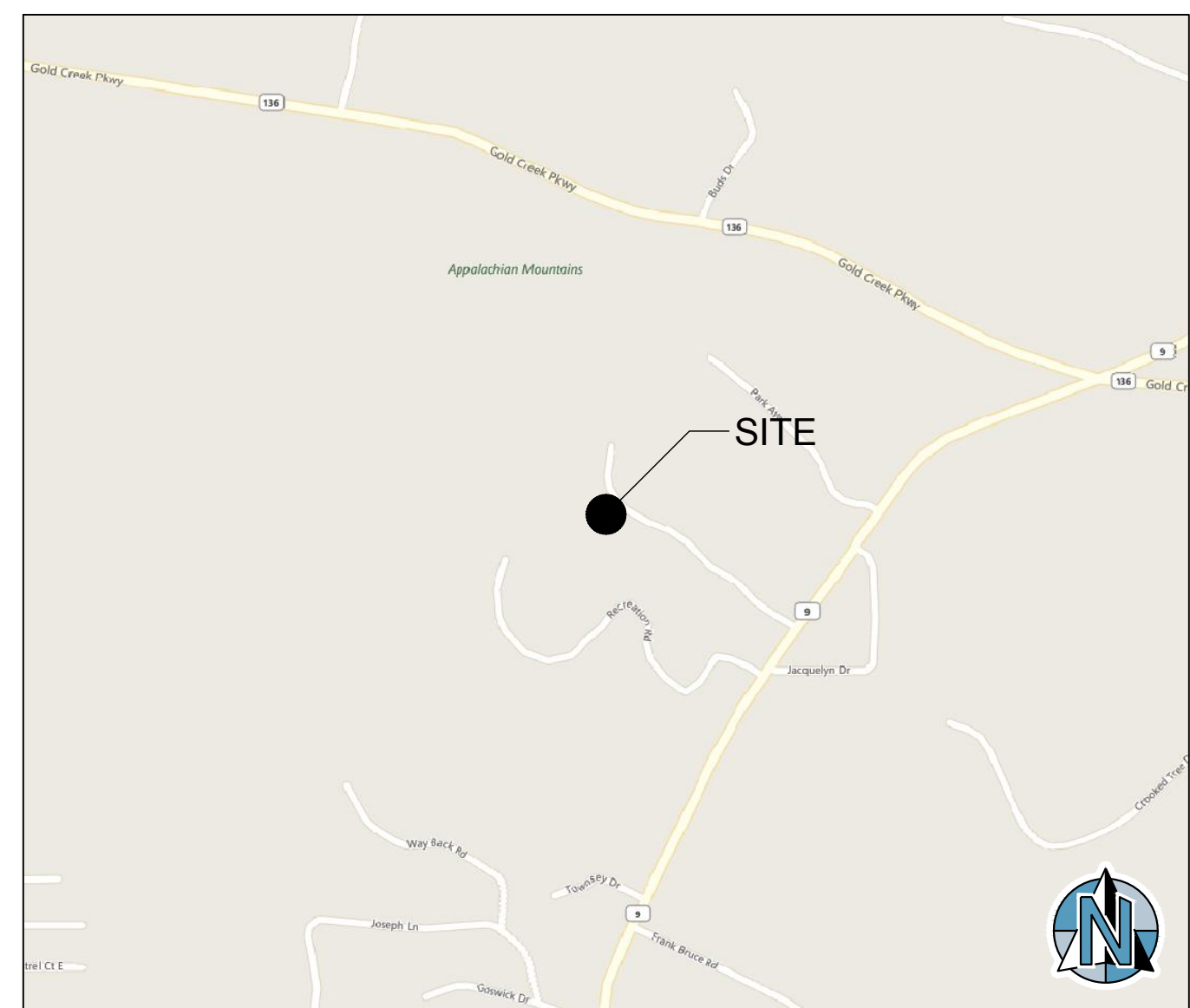
DAWSONVILLE, GA 30534

LAND LOTS 248 & 249, 13TH DISTRICT, PARCEL #: 091035

ZONED: RA

SHEET INDEX

- G-1 COVER
- G-2 CONSTRUCTION RESPONSIBILITY PLAN
- V-1 SURVEY
- C-0 DEMOLITION PLAN
- C-1 SITE & PAVING PLAN
- C-1.1 ACCESSIBILITY PLAN AND DETAILS
- C-2 GRADING AND DRAINAGE PLAN
- C-2.1 STORM DRAINAGE PROFILES
- C-2.2 STORM DRAINAGE DETAILS
- C-3 UTILITIES PLAN
- C-3.1 SANITARY SEWER PROFILES
- 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 CONSTRUCTION DETAILS
- C-5.1 CONSTRUCTION DETAILS
- C-6 UTILITY DETAILS
- C-6.1 UTILITY DETAILS
- L-1 LANDSCAPE PLAN
- L-2 LANDSCAPE DETAILS



VICINITY MAP NOT TO SCALE

SITE DISTURBED AREA = 0.5 AC.

PREPARED BY:



24 HR CONTACT:
DAVID MCKEE
(706) 344-3501

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

w | www.fg-inc.net
 o | 770.368.1399
 f | 770.368.1944

ISSUED:
 MARCH 28, 2018
 121.029

CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY UPON COMPLETION OF INITIAL EROSION BMP'S AS SHOWN ON SHEET C-4 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.

ANTICIPATED ACTIVITY SCHEDULE						
BEGIN CONSTRUCTION: 2019-04-01						
END CONSTRUCTION: 2020-04-01						
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						■

PROJECT DIRECTORY

OWNER
 DAWSON COUNTY BOARD OF COMMISSIONER
 25 JUSTICE WAY, SUITE 2223
 DAWSONVILLE, GA 30534
 (706) 344-3500
 CONTACT: MELISSA HAWK

SURVEYOR
 GEOSURVEY, LTD
 1660 BARNES MILL RD
 MARIETTA, GA 30062
 (770) 795-9900
 CONTACT: JOHN NEWMAN

CIVIL ENGINEER
 FORESITE GROUP, INC.
 3740 DAVINCI COURT, SUITE 100
 PEACHTREE CORNERS, GA 30092
 (770) 344-3700
 CONTACT: DAWN PRUETT

GEOTECHNICAL ENGINEER
 GEOHYDRO ENGINEERS
 1000 COBB PLACE BLVD, SUITE 290
 KENNESAW, GA 30144
 (770) 426.7100
 CONTACT: A. MARTY PENINGER

ARCHITECT
 ERIC PEEK
 5200 AVOLON BLVD
 ALPHARETTA, GA 30009
 (770) 209-9393
 CONTACT: WAKEFIELD BEASLEY & ASSCIATES, INC.

UTILITY PROVIDERS

WATER SERVICE PROVIDER

ETOWAH WATER AND SEWER AUTHORITY
 1162 HWY 53 E
 DAWSONVILLE, GA 30534
 (706) 216-8474
 CONTACT: JOHN CRONAN

ELECTRICAL SERVICE PROVIDER

GEORGIA POWER COMPANY
 823 JEFFERSON ST.
 ATLANTA, GA 30318
 (404) 506-4569
 CONTACT: IKE COLLINS

GAS SERVICE PROVIDER
 SOUTHEN COMPANY GAS
 10 PEACHTREE ST. NE
 ATLANTA, GA 30309
 (404) 584-4338
 CONTACT: HAYDEN HINTON

SANITARY SEWER SERVICE PROVIDER
 DAWSON CO. ENVIRONMENTAL HEALTH
 189 HIGHWAY 53 WEST, SUITE 102
 P.O. BOX 2020, DAWSONVILLE, GA 30534
 (706) 265-2930
 CONTACT: BILL RINGLE

TELEPHONE SERVICE PROVIDER
 WINDSTREAM COMMUNICATION
 750 N. JEFFERSON ST. NE
 MILLEDGEVILLE, GA 31061
 (888) 599-3166

LOCAL MUNICIPALITY
 DAWSON COUNTY
 25 JUSTICE WAY, SUITE 2223
 DAWSONVILLE, GA 30534
 (706) 344-3500
 CONTACT: DAVID MCKEE



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."

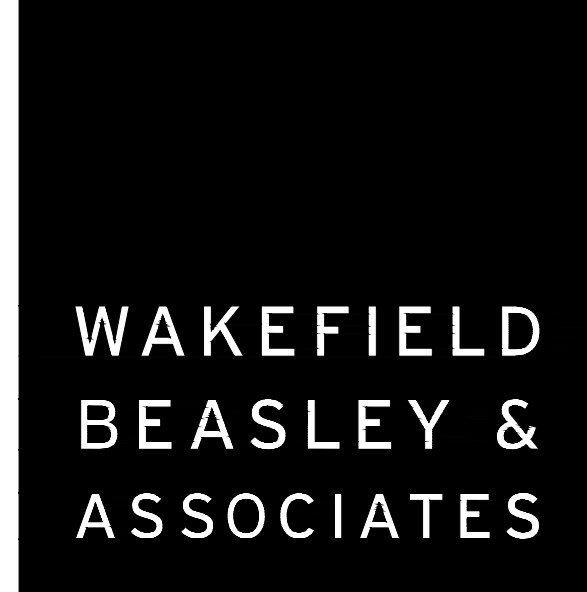
David Mckee
 SIGNATURE OF ENGINEER DATE 4/03/19
 0000608027 SIGNATURE OF PERMITTEE 2019-03-24
 CERTIFICATION OF EXPIRATION

"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 PERMITTEE 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.

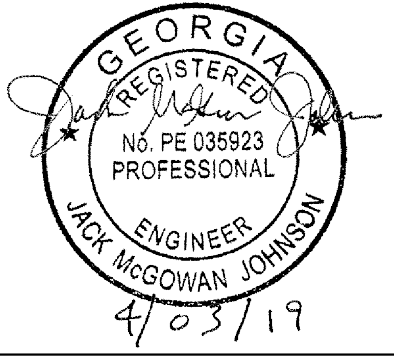
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Print Record

- 2019-01-14 SCHEMATIC DESIGN PACKAGE
- 2019-02-04 BID PACKAGE
- 2019-03-08 GRANT REVIEW DOCUMENTS
- 2019-04-03 COUNTY COMMENTS
- 2019-05-16 ADDENDUM 2

Revisions

No.	Date	Description

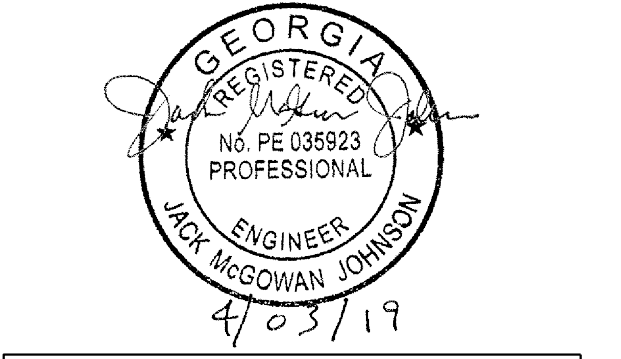
RELEASED FOR CONSTRUCTION

DATE _____

PROJECT NUMBER _____

SHEET TITLE
COVER

SHEET NUMBER
G-1



DAWSON COUNTY SENIOR CENTER AND PAVILION 201 RECREATION RD DAWSONVILLE, GA 30534

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Print Record

Table with 2 columns: Date, Description. Includes entries for 2019-01-14 SCHEMATIC DESIGN PACKAGE, 2019-02-04 BID PACKAGE, 2019-03-08 GRANT REVIEW DOCUMENTS, 2019-04-03 COUNTY COMMENTS, 2019-05-16 ADDENDUM 2.

Table with 3 columns: No., Date, Description. Revisions section.

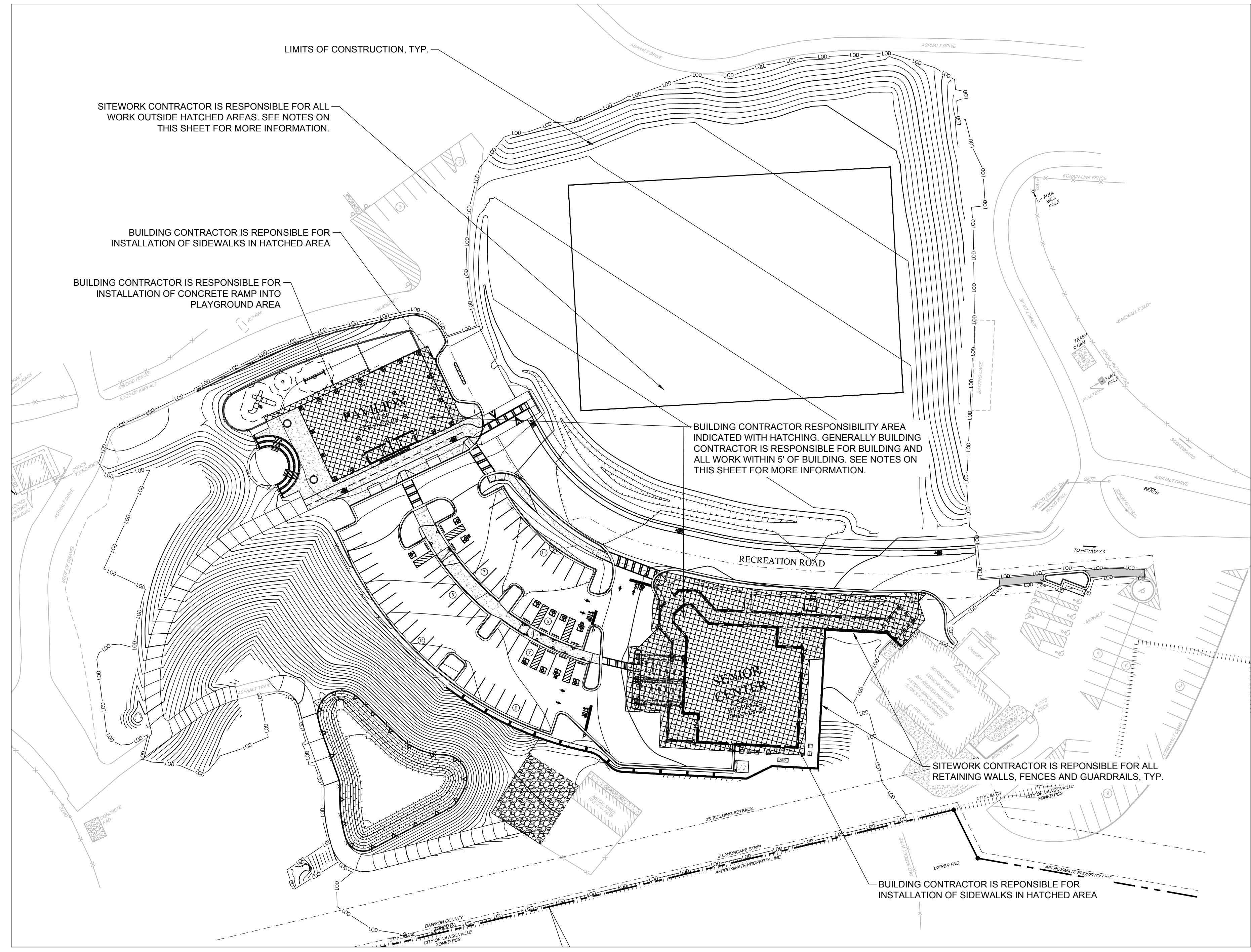
Table with 3 columns: No., Date, Description. Revisions section.

RELEASED FOR CONSTRUCTION

DATE PROJECT NUMBER SHEET TITLE

CONSTRUCTION RESPONSIBILITY PLAN

SHEET NUMBER G-2



CONTRACTOR RESPONSIBILITY NOTES:

SITWORK CONTRACTOR RESPONSIBILITIES:

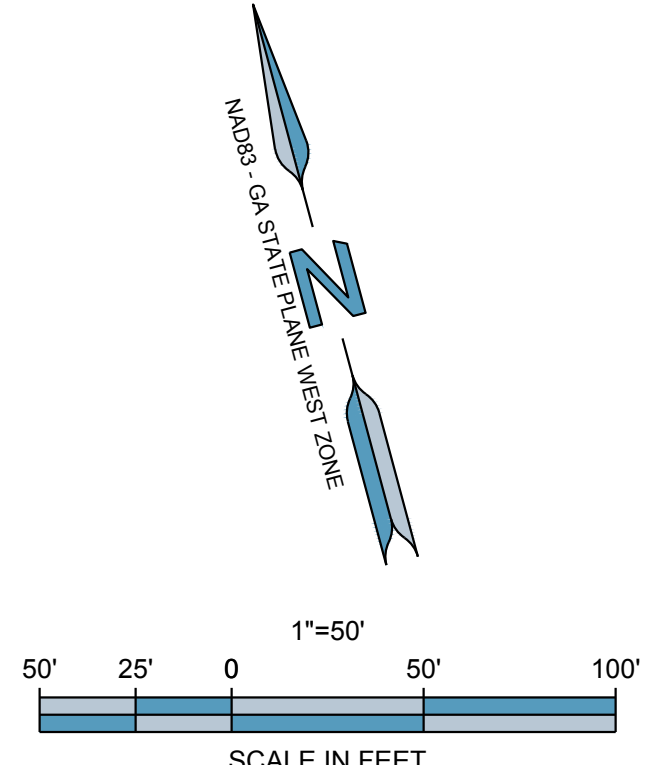
- 1. ALL DEMOLITION. 2. ALL GRADING, EARTHWORK, STORMWATER MANAGEMENT AND DRAINAGE INFRASTRUCTURE INCLUDING ROOF DRAINS STUBBED AT 5' OUTSIDE THE BUILDING ENVELOPE. 3. SITWORK CONTRACTOR IS RESPONSIBLE TO BRING THE BUILDING PADS TO GRADE... 15. ALL OTHER SITWORK INDICATED IN THE PLANS AND SPECIFICATIONS NOT COVERED BY THE BUILDING CONTRACTOR.

BUILDING CONTRACTOR RESPONSIBILITIES:

- 1. COMPLETE BUILDING PER BUILDING PLANS. 2. UTILITY CONNECTIONS TO BUILDING. 3. HVAC AND OTHER EQUIPMENT PADS EXCEPT TRANSFORMER PAD. 8. REPLACEMENT OF ANY SIDEWALK, CURBS OR OTHER IMPROVEMENTS INSTALLED BY THE SITWORK CONTRACTOR THAT ARE DAMAGED BY BUILDING CONTRACTOR DURING CONSTRUCTION.

SHEET NAME:

FILENAME: F:\121,030 Dawson Senior Center - Dawson County, GA\DWG\G-2 Responsibility Plan.dwg



3/06/2019 11:01 AM
SHEET NAME: DEMOLITION PLAN SHEET NUMBER: C-0 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION
NAME: F:\121020 Dawson Senior Center - Dawson County, GA\DWSC-0 Demolition Plan.dwg

GENERAL NOTES:

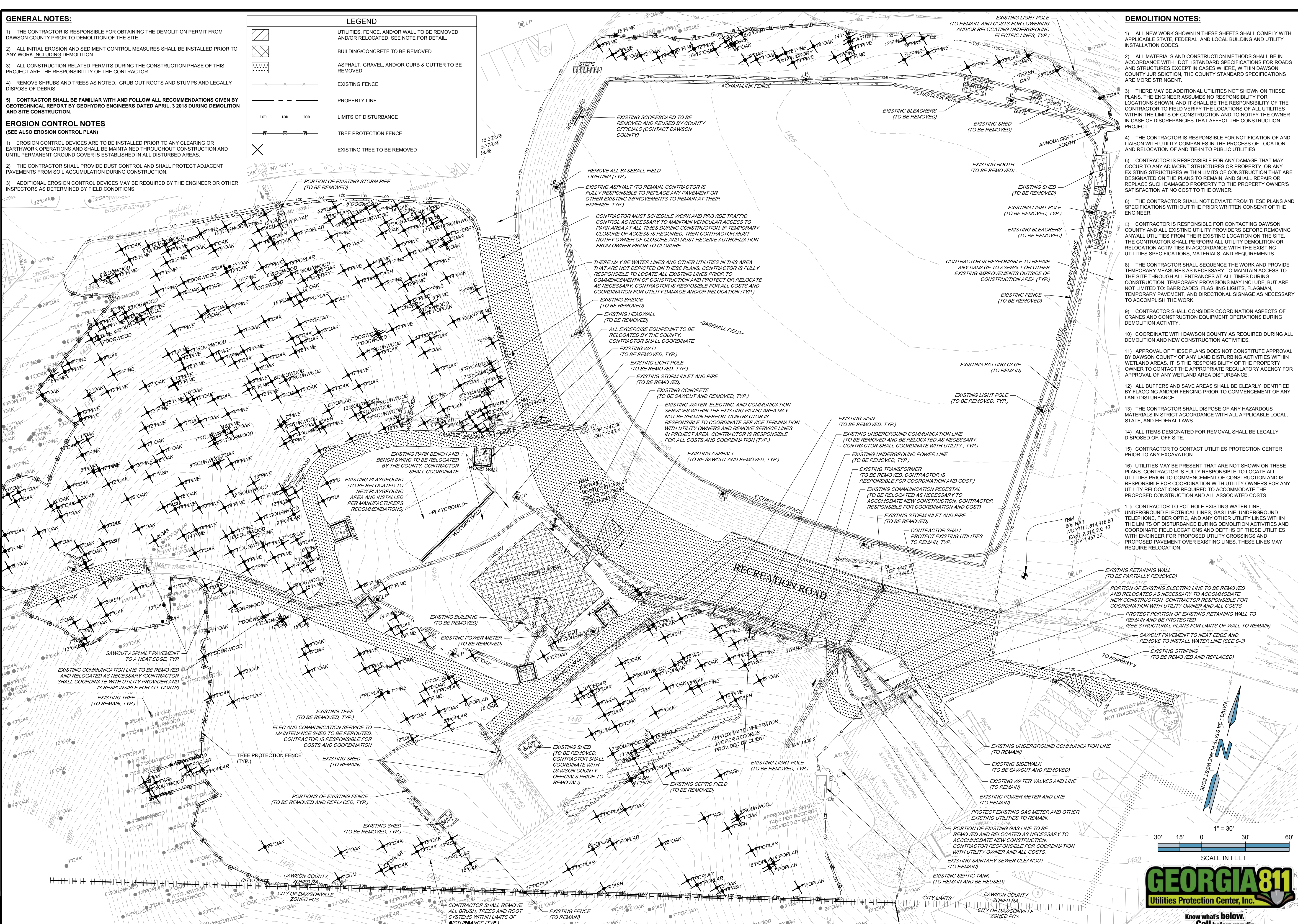
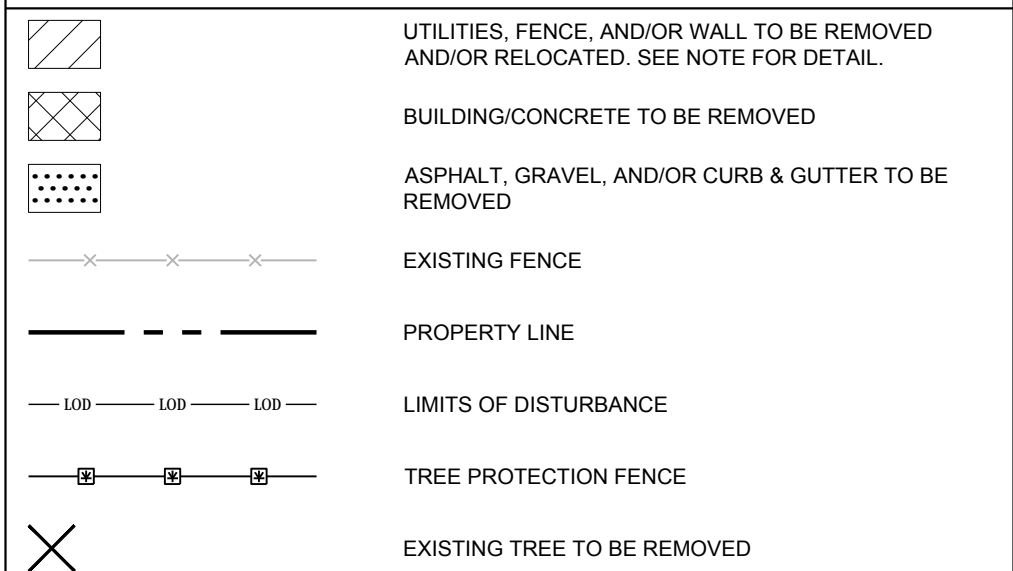
- 1) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEMOLITION PERMIT FROM DAWSON COUNTY PRIOR TO DEMOLITION OF THE SITE.
- 2) ALL INITIAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY WORK INCLUDING DEMOLITION.
- 3) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE 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 BY GEOTECHNICAL REPORT BY GEOHYDRO ENGINEERS DATED APRIL, 3 2018 DURING DEMOLITION AND SITE CONSTRUCTION.

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



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 "DOT" STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES EXCEPT IN CASES WHERE, WITHIN DAWSON COUNTY JURISDICTION, THE COUNTY 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 OF AND LIAISON 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 OWNERS 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 DAWSON COUNTY AND ALL EXISTING UTILITY PROVIDERS BEFORE REMOVING ANY 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) COORDINATE WITH DAWSON COUNTY AS REQUIRED DURING ALL DEMOLITION AND NEW CONSTRUCTION ACTIVITIES.
- 11) APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY DAWSON COUNTY 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.
- 12) ALL BUFFERS AND SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGERS AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- 13) THE CONTRACTOR SHALL DISPOSE OF ANY HAZARDOUS MATERIALS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
- 14) ALL ITEMS DESIGNATED FOR REMOVAL SHALL BE LEGALLY DISPOSED OF, OFF SITE.
- 15) CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION.
- 16) UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THESE PLANS. CONTRACTOR IS FULLY RESPONSIBLE TO LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND IS RESPONSIBLE FOR COORDINATION WITH UTILITY OWNERS FOR ANY UTILITY RELOCATIONS REQUIRED TO ACCOMMODATE THE PROPOSED CONSTRUCTION AND ALL ASSOCIATED COSTS.
- 17) CONTRACTOR TO POT HOLE EXISTING WATER LINE, UNDERGROUND ELECTRICAL LINES, GAS LINE, UNDERGROUND TELEPHONE, FIBER OPTIC, AND ANY OTHER UTILITY LINES WITHIN THE LIMITS OF DISTURBANCE DURING DEMOLITION ACTIVITIES AND COORDINATE FIELD LOCATIONS AND DEPTHS OF THESE UTILITIES WITH ENGINEER FOR PROPOSED UTILITY CROSSINGS AND PROPOSED PAVEMENT OVER EXISTING LINES. THESE LINES MAY REQUIRE RELOCATION.

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

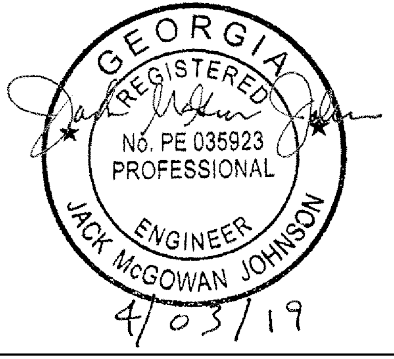
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DAWSON COUNTY SENIOR CENTER AND PAVILION

201 RECREATION RD
DAWSONVILLE, GA 30534

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Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS
2019-04-03 COUNTY COMMENTS
2019-05-16 ADDENDUM 2

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C-0

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

3/09/2019 10:45:44 AM SHEET NAME: SITE & PAVING PLAN SHEET NUMBER: C-1 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION

GENERAL NOTES:

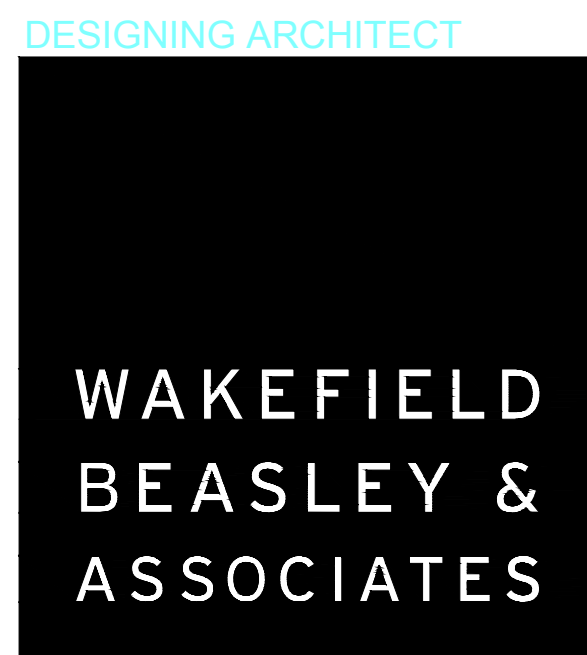
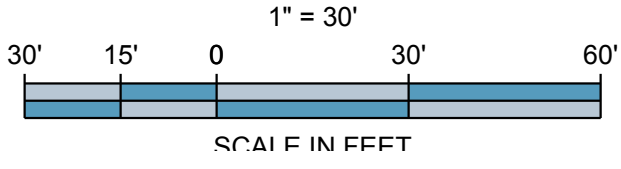
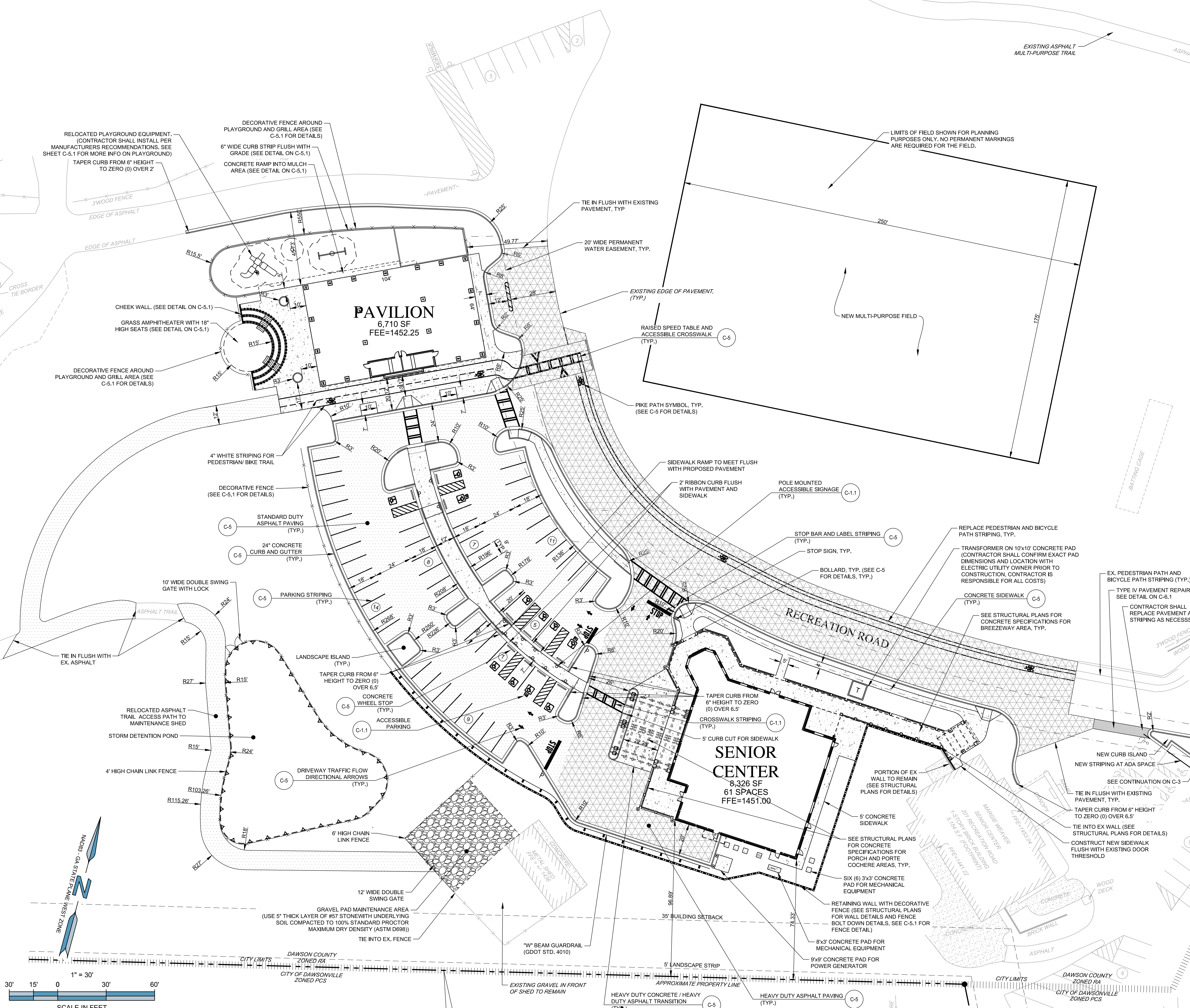
- 1) ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED PARKING LOT ARE SHOWN AT THE FACE OF CURB. ALL PROPOSED DIMENSIONS USED TO SHOW THE GEOMETRIC LAYOUT OF THE PROPOSED BUILDING LOCATION ARE GIVEN AT THE OUTSIDE FACE OF THE BUILDING CORNERS. ALL CURB RADII ARE GIVEN AT THE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

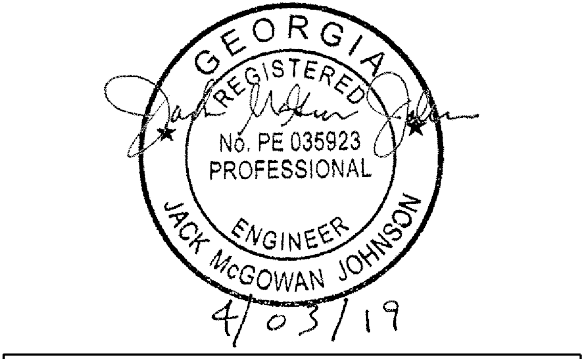
- 1) TRACT IS ZONED: RA (RESIDENTIAL EXURBAN/AGRICULTURAL)
- 2) SEE ARCHITECTURAL PLANS FOR BUILDING FLOOR PLAN DIMENSIONS, DOOR LOCATIONS, SITE LIGHTING PLAN, AND OTHER ARCHITECTURAL DETAILS.
- 3) NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL SITE IMPROVEMENTS HAVE BEEN COMPLETED ON THE SITE.
- 4) ALL BUFFERS, TREE SAVE AREAS, AND UNDISTURBED AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- 5) SIGNS (LOCATION, NUMBER, AND SIZE) ARE NOT APPROVED UNDER THIS DEVELOPMENT PERMIT. A SEPARATE PERMIT IS REQUIRED FOR ON-SITE SIGNAGE.
- 6) 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.
- 7) ALL EROSION, SEDIMENT CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY GRADING.
- 8) MAXIMUM CUT OR FILL SLOPE=2H:1V
- 9) 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 9 WEEKS PRIOR TO ANTICIPATED CERTIFICATE OF OCCUPANCY DATE REGARDING ANY ITEMS REQUIRING APPROVAL OR CERTIFICATIONS BY THE ENGINEER.

SITE DATA	
ZONING:	RA (RESIDENTIAL EXURBAN/AGRICULTURAL)
PARCEL IDENTIFICATION NUMBER:	091035
DISTURBED AREA:	1.5 AC.
IMPERVIOUS SURFACE AREA PROPOSED ():	1,434 AC.
LANDSCAPE STRIP - FRONT:	10 FT
SIDE:	5 FT
REAR:	5 FT
BUILDING SETBACK - FRONT:	40 FT
SIDE:	20 FT
REAR:	35 FT
SENIOR CENTER BUILDING FLOOR AREA (GROSS):	8,326 S.F.
BUILDING HEIGHT:	2'-1.5"
BUILDING HEIGHT (MAX.):	3'
PARKING RATIO REQUIRED - (1 SPACE / 10 SENIORS) (1 SPACE / EMPLOYEE)	
SENIOR CENTER PARKING REQUIRED:	24 SPACES
100 SENIORS - 14 EMPLOYEES =	
PARKING PROVIDED:	61 SPACES
ACCESSIBLE PARKING REQUIRED:	3 SPACES
ACCESSIBLE PARKING PROVIDED:	11 SPACES

LEGEND	
	STANDARD DUTY ASPHALT PAVING
	HEAVY DUTY ASPHALT PAVING
	ASPHALT PAVEMENT REPAIR (TYPE IV, SEE C-6.1)
	CONCRETE SIDEWALK PAVING
	HEAVY DUTY CONCRETE PAVING
	PROPERTY LINE
	PARKING COUNT
	TRAFFIC SIGN
	PAINTED TRAFFIC ARROWS
	TRAFFIC FLOW LANE DESIGNATION



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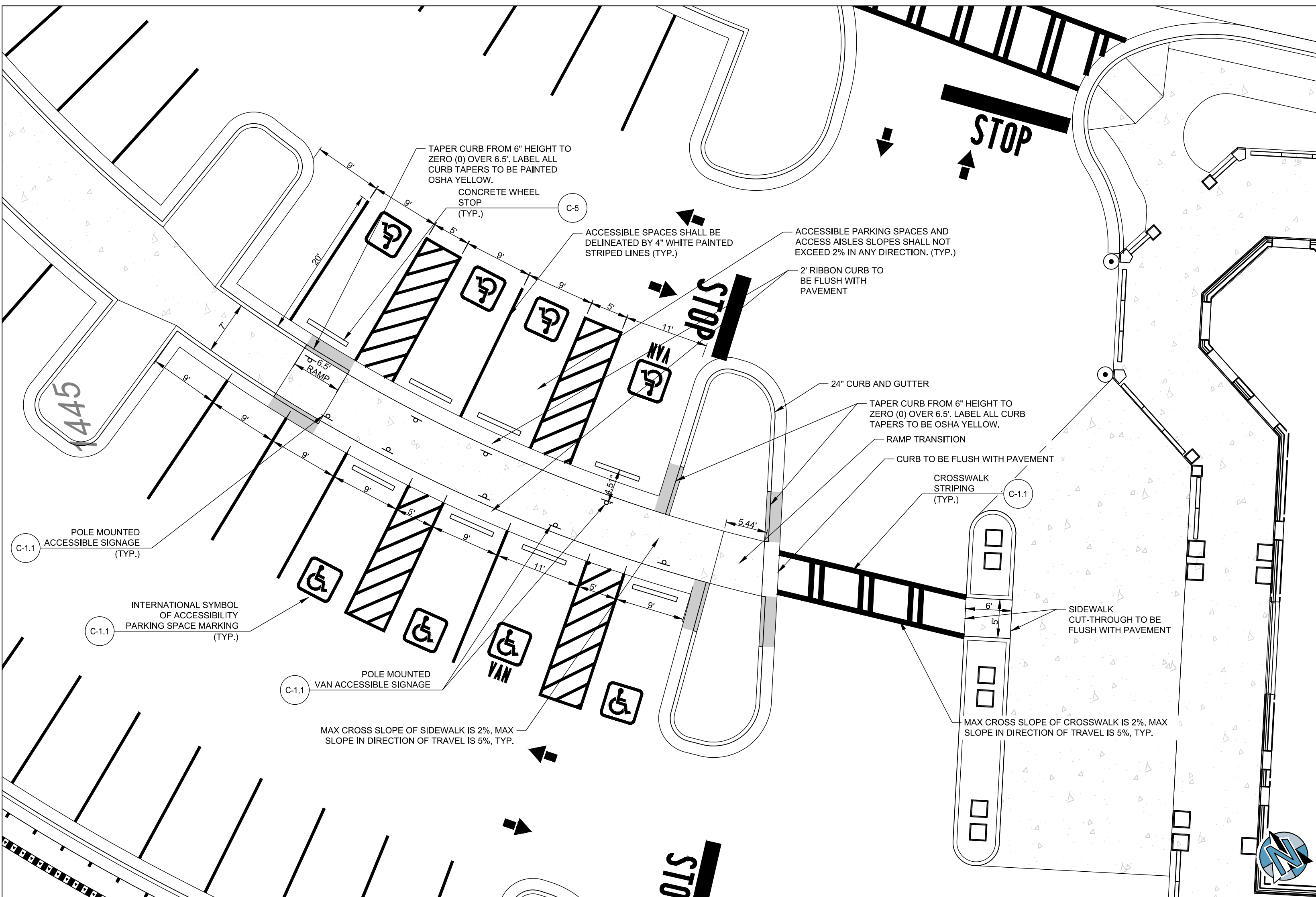
2019-01-14	SCHEMATIC DESIGN PACKAGE
2019-02-04	BID PACKAGE
2019-03-08	GRANT REVIEW DOCUMENTS
2019-04-03	COUNTY COMMENTS
2019-05-16	ADDENDUM 2

Revisions		
No.	Date	Description

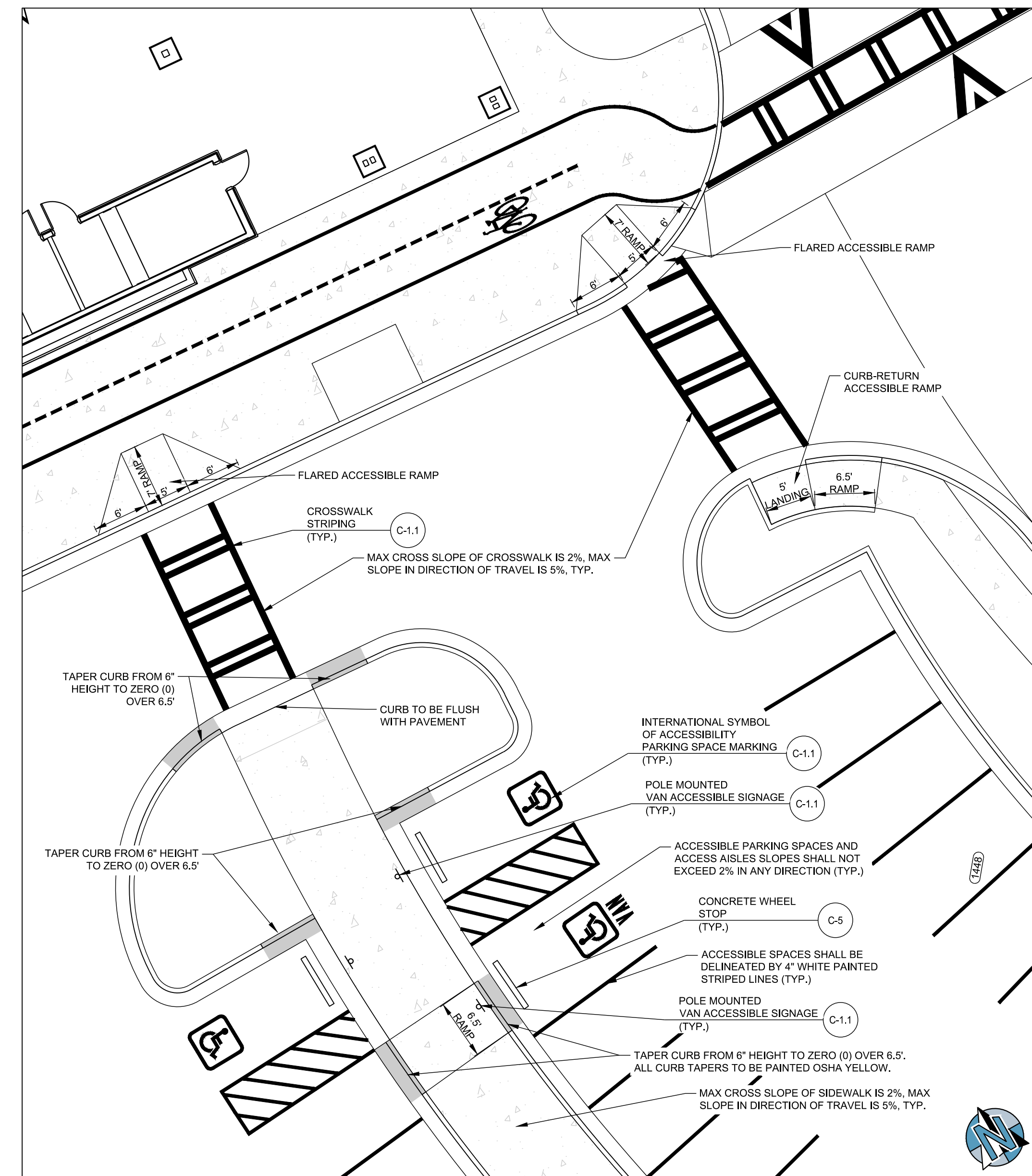
RELEASED FOR CONSTRUCTION

DATE	
PROJECT NUMBER	
SHEET TITLE	SITE & PAVING PLAN
SHEET NUMBER	C-1

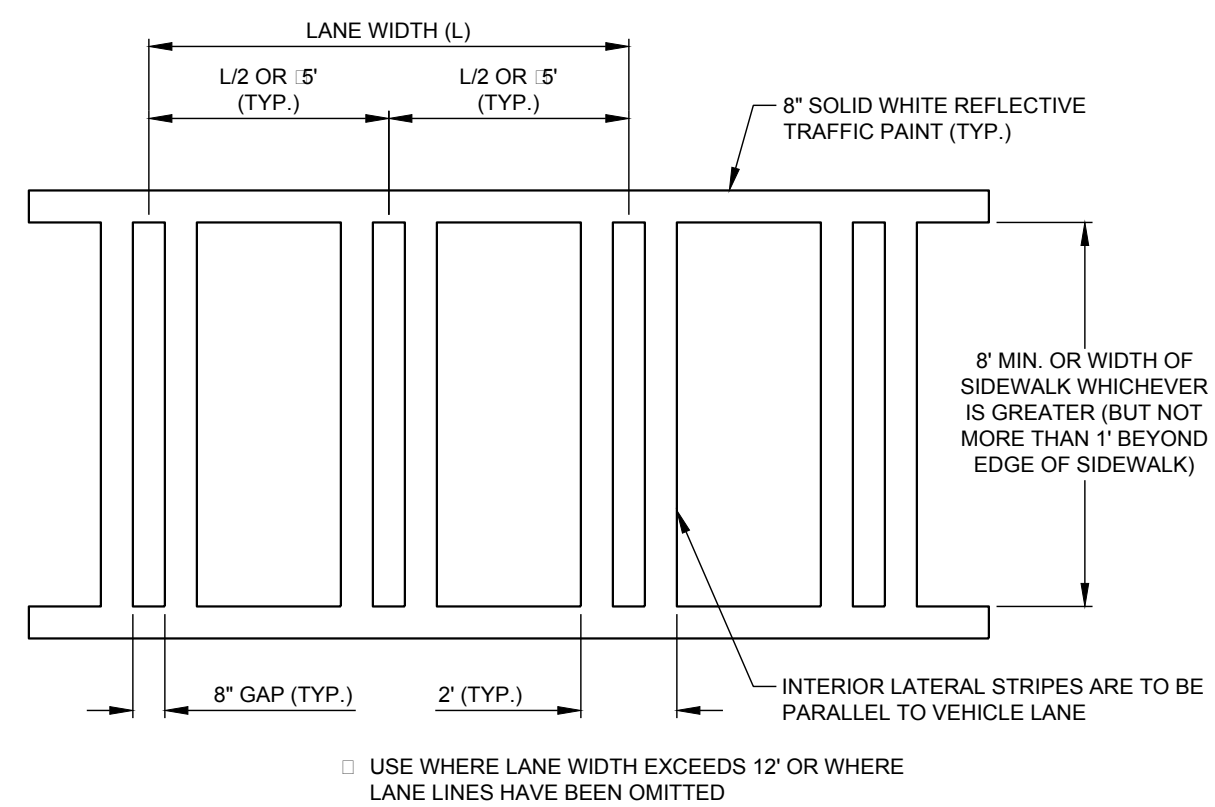
SHEET NAME: ACCESSIBILITY PLAN AND DETAILS SHEET NUMBER: C-1.1 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION 2/18/2019 8:21:33 PM
 SHEET NAME: ACCESSIBILITY PLAN AND DETAILS SHEET NUMBER: C-1.1 PROJECT NAME: Dawson Senior Center - Dawson County, GA/DWG/C-1.1 Accessibility Plan.dwg



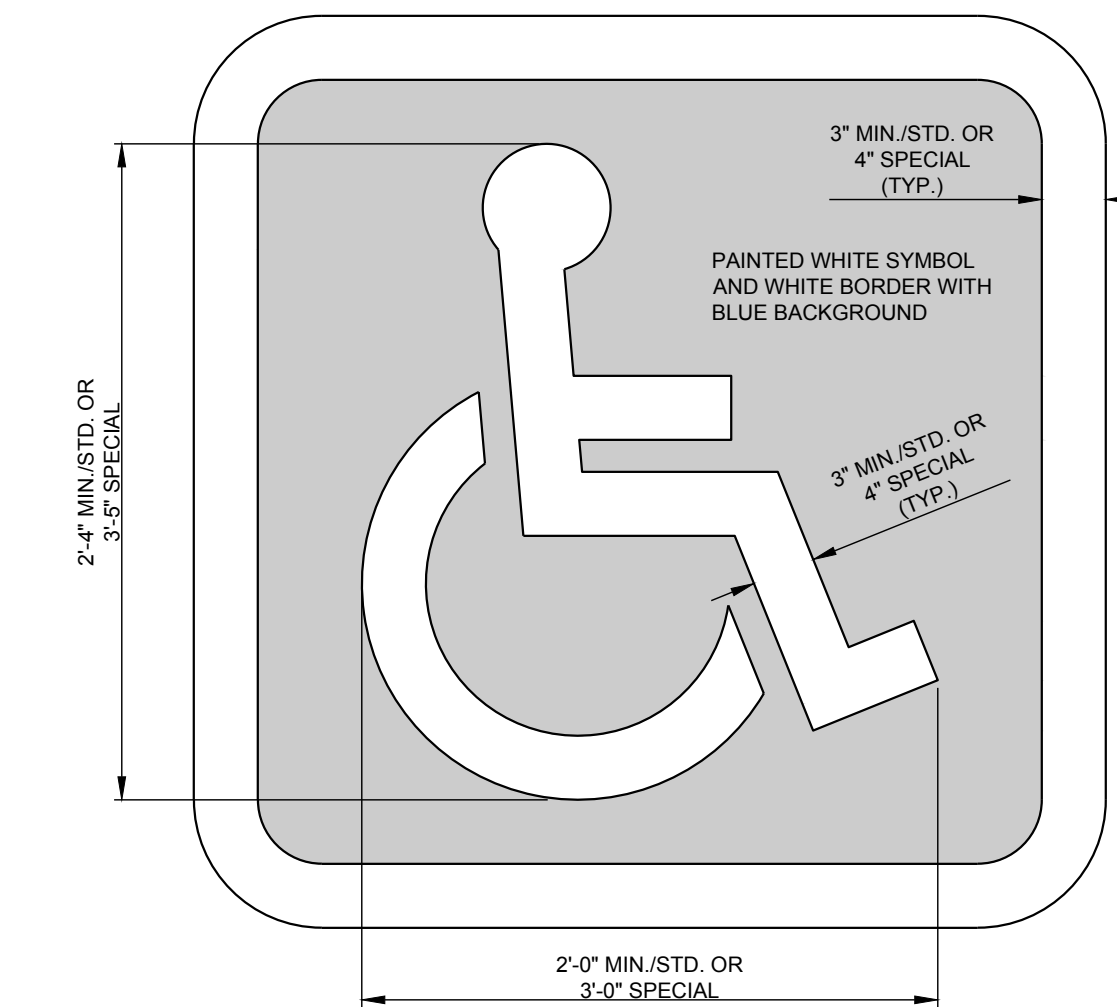
C-1.1 ACCESSIBLE PARKING AND PATH
1" = 10'



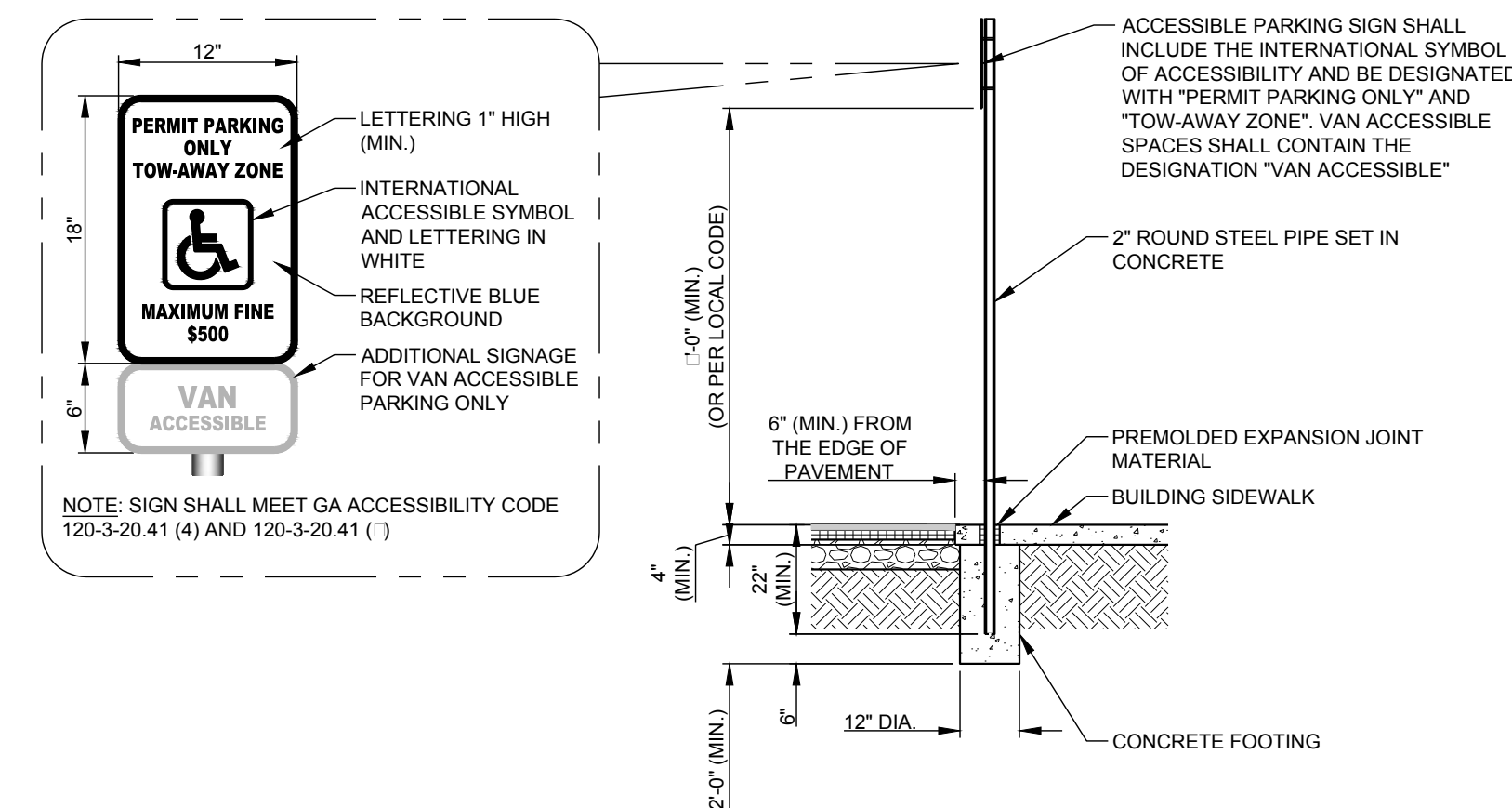
C-1.1 ACCESSIBLE PARKING AND PATH
1" = 10'



C-1.1 CROSSWALK STRIPING
NOT TO SCALE



C-1.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY PARKING SPACE MARKING
NOT TO SCALE



C-1.1 SIDEWALK POLE MOUNTED ACCESSIBLE SIGNAGE
NOT TO SCALE

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

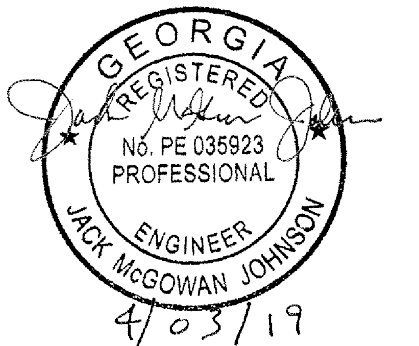
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DAWSON COUNTY SENIOR CENTER AND PAVILION
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2019-03-08	GRANT REVIEW DOCUMENTS
2019-04-03	COUNTY COMMENTS
2019-05-16	ADDENDUM 2

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

SHEET TITLE

ACCESSIBILITY PLAN AND DETAILS

SHEET NUMBER

C-1.1



Know what's below.

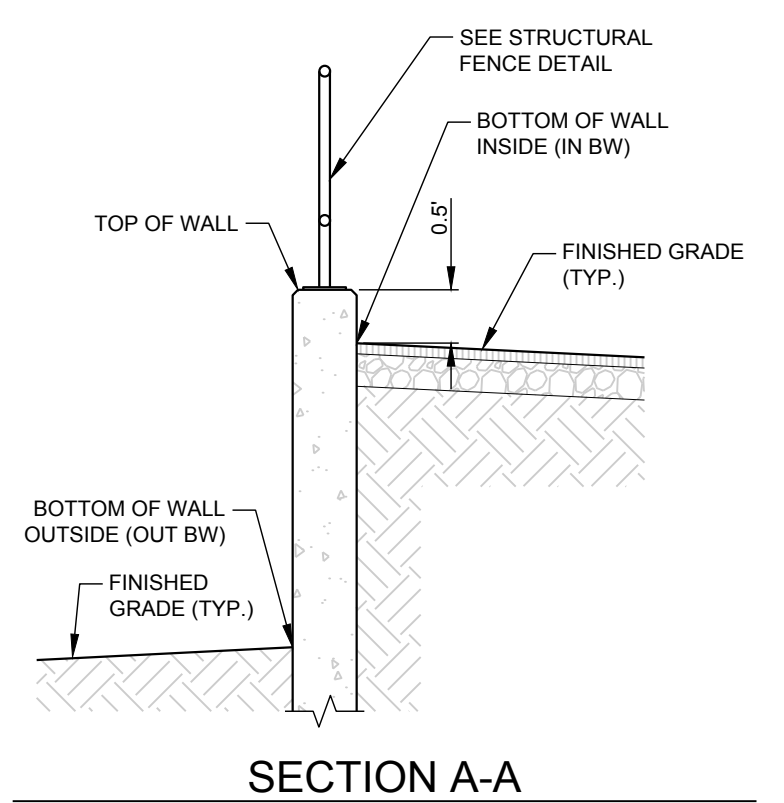
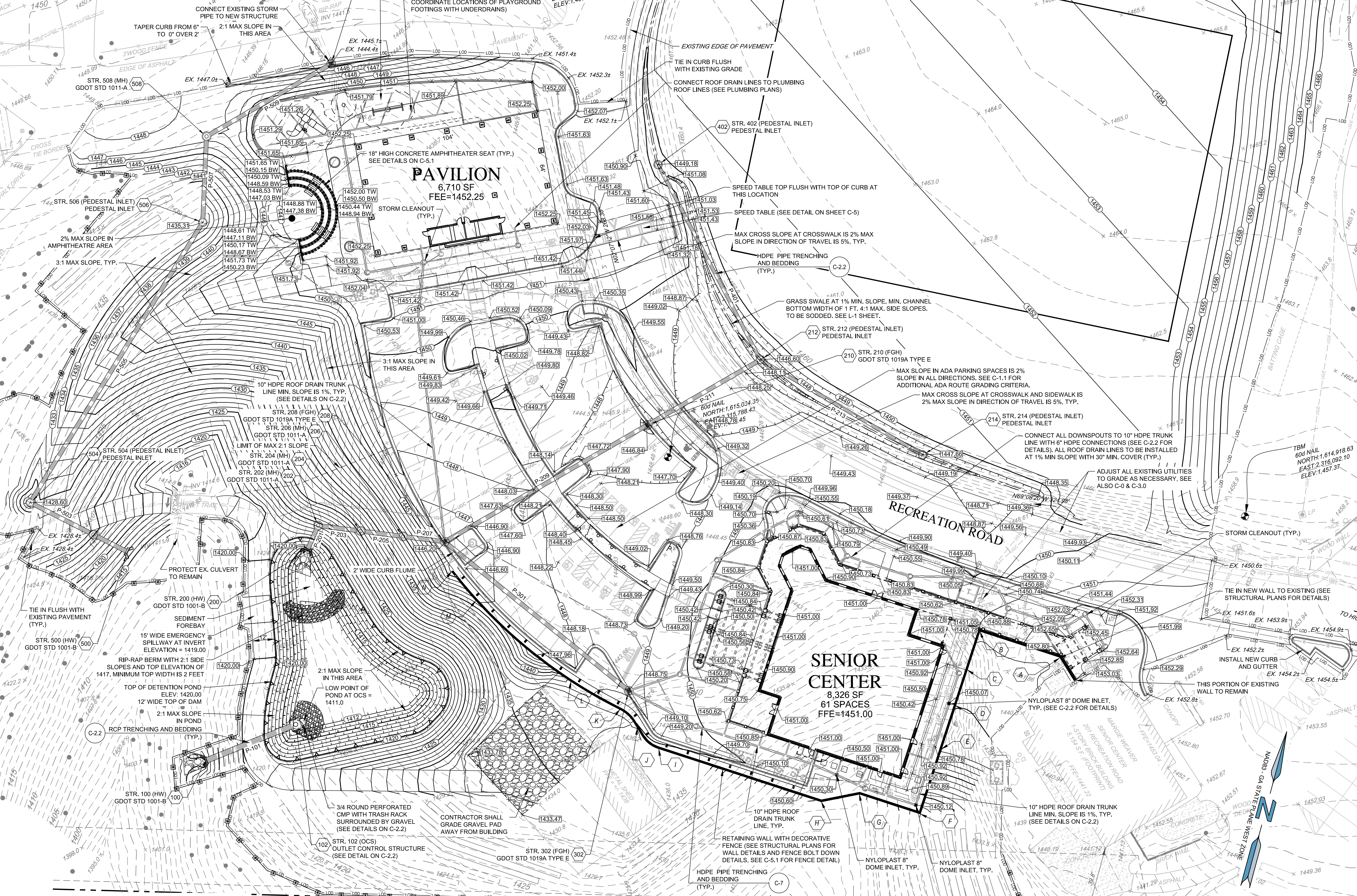
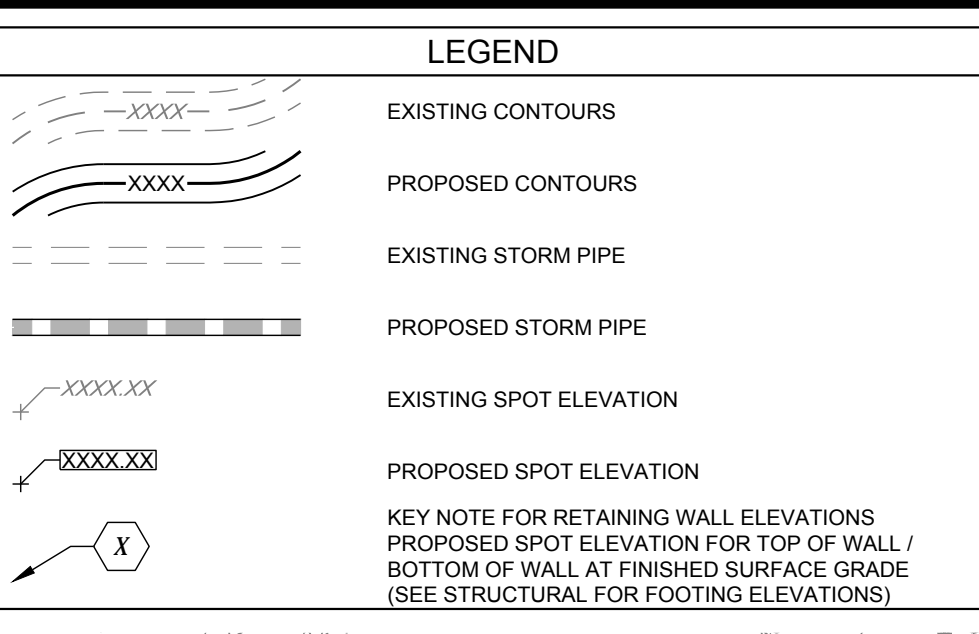
SHEET NAME: GRADING AND DRAINAGE PLAN, SHEET NUMBER: C-2, PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION
 SHEET NAME: GRADING AND DRAINAGE PLAN, SHEET NUMBER: C-2, PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION
 SHEET NAME: GRADING AND DRAINAGE PLAN, SHEET NUMBER: C-2, PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION

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 AND NOT EXCEED 2".
- 3) ALL HEAD WALL SECTIONS SHALL BE CONSTRUCTED TO BE FLUSH WITH THE EXISTING DITCH BANK AND PROPOSED EMBANKMENT SLOPES.

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 DAWSON COUNTY INSPECTIONS DURING CONSTRUCTION.
- 3) CONSTRUCT EROSION CONTROL BARRIERS PER DAWSON COUNTY INSPECTOR AND MAINTAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- 4) 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 DAWSON COUNTY RIGHT OF WAY SHALL COMPLY WITH GDOT SPECIFICATIONS.
- 5) ALL CURBED LANDSCAPE ISLANDS SHALL BE FILLED TO TOP OF CURB WITH TOPSOIL AND SEEDED.
- 6) MAXIMUM CUT OR FILL SLOPES IS 2H:1V
- 7) TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING ACTIVITIES.
- 8) ALL PLASTIC STORM PIPE SHOWN ON THIS PLAN SHALL BE WRAPPED WITH LOCATION WIRE AND TAPE.
- 9) ALL CMP STORM PIPE SHALL BE TYPE 2 ALUMINIZED. ALL HDPE SHALL BE ASHTO TYPE "S" AND SHALL BE INSTALLED IN ACCORDANCE TO ASTM D3211 OR ASHTO SECTION 30 STANDARD PRACTICES AND AS RECOMMENDED BY THE MANUFACTURER. ALL RCP STORM PIPE SHALL BE CLASS III.
- 10) 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.
- 11) REFER TO SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION REPORTS AS PROVIDED BY OWNER FOR RECOMMENDATIONS ASSOCIATED WITH GEOTECHNICAL 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.
- 12) 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: DAVID MCKEE (706) 344-3501
- 13) NO PORTION OF THIS PROPERTY LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER PANEL 13085C103C DATED 2018-04-04
- 14) 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.
- 15) EXTREME CAUTION SHALL BE USED WHEN WORKING WITHIN THE VICINITY OF THE EXISTING OVERHEAD POWER LINES. CONTRACTORS SHALL NOTIFY/COORDINATE WITH GEORGIA POWER COMPANY PRIOR TO CONSTRUCTION.
- 16) STORM WATER MANAGEMENT SHALL BE IN ACCORDANCE WITH COUNTY, STATE, AND OTHER APPROPRIATE ORDINANCES AND REGULATIONS IN EFFECT AT TIME OF CONSTRUCTION PLAN APPROVAL.
- 17) IN HEAVY DUTY PAVEMENT AREAS G.A.B. SHALL EXTEND UNDER THE GUTTER TO PROVIDE ADDITIONAL STABILITY FOR TRUCK TRAVEL.
- 18) CONTRACTOR SHALL INSTALL DOWNSTREAM STORM PIPE CONNECTION 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 HOLES 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.



RETAINING WALL ELEVATIONS

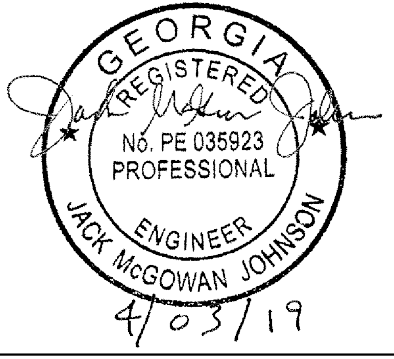
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IN BW	1452.80	1451.05	1450.76	1450.15	1450.90	1450.20	1450.0	1450.80	1449.90	1449.90	1448.80	1448.00	1441.00	1441.00
OUT	1451.90	1450.15	1449.86	1449.25	1450.00	1449.30	1449.10	1448.40	1447.50	1447.50	1446.40	1445.60	1441.00	1441.00



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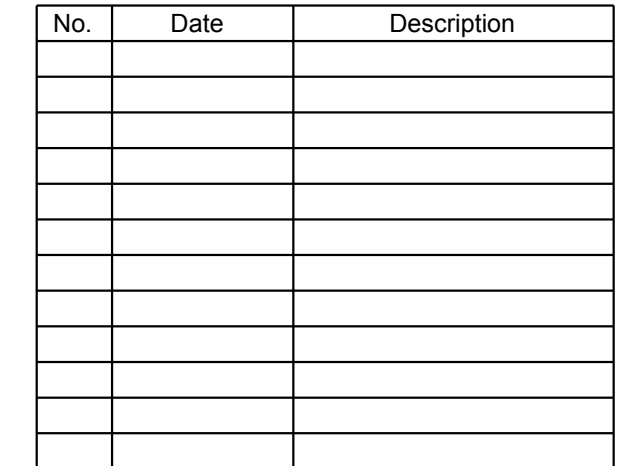
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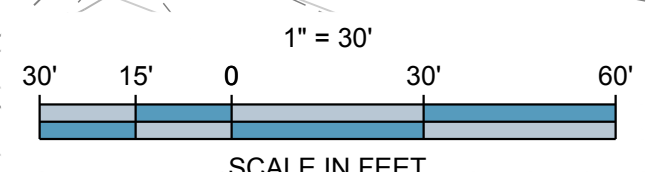
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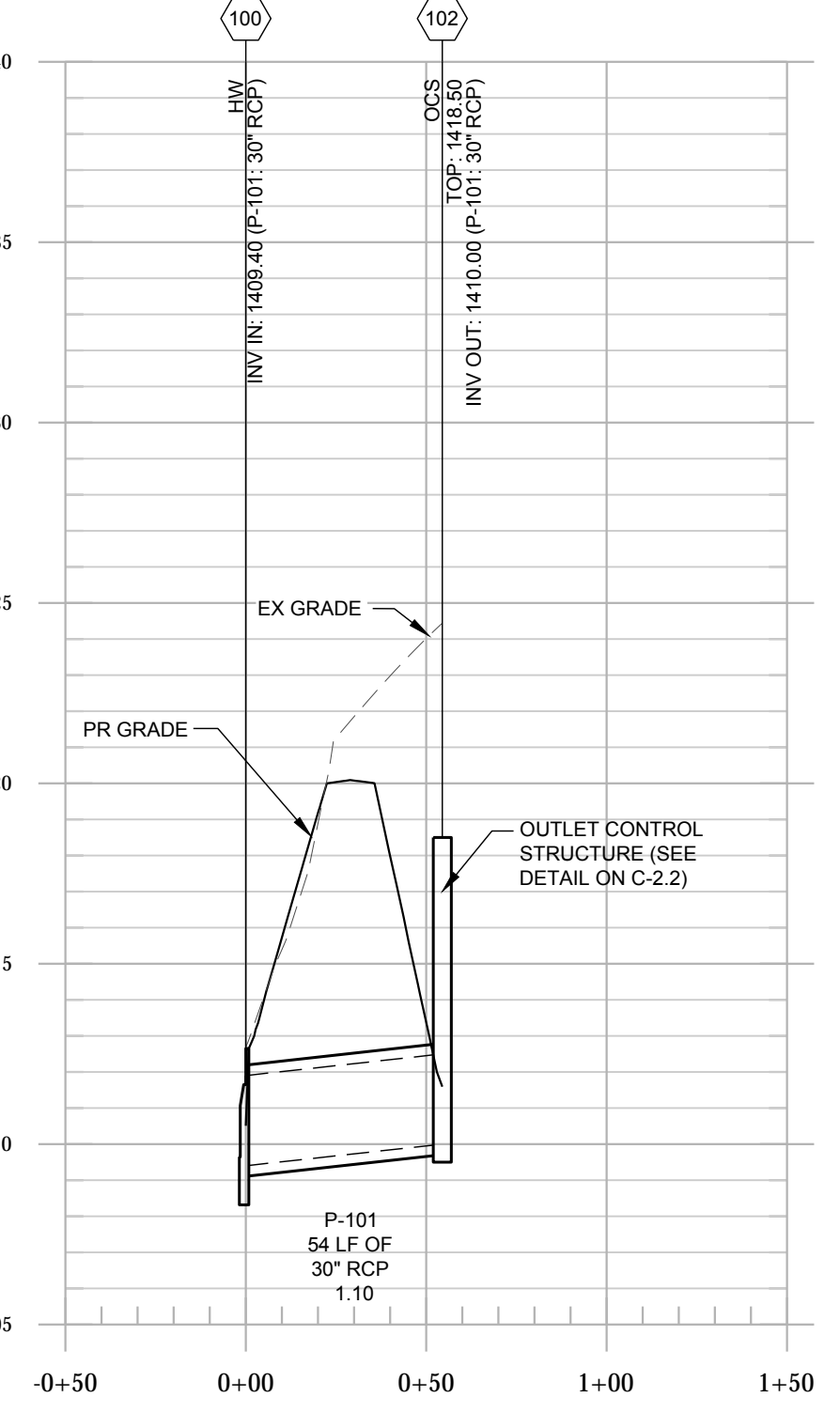
GRADING AND DRAINAGE PLAN

SHEET NUMBER

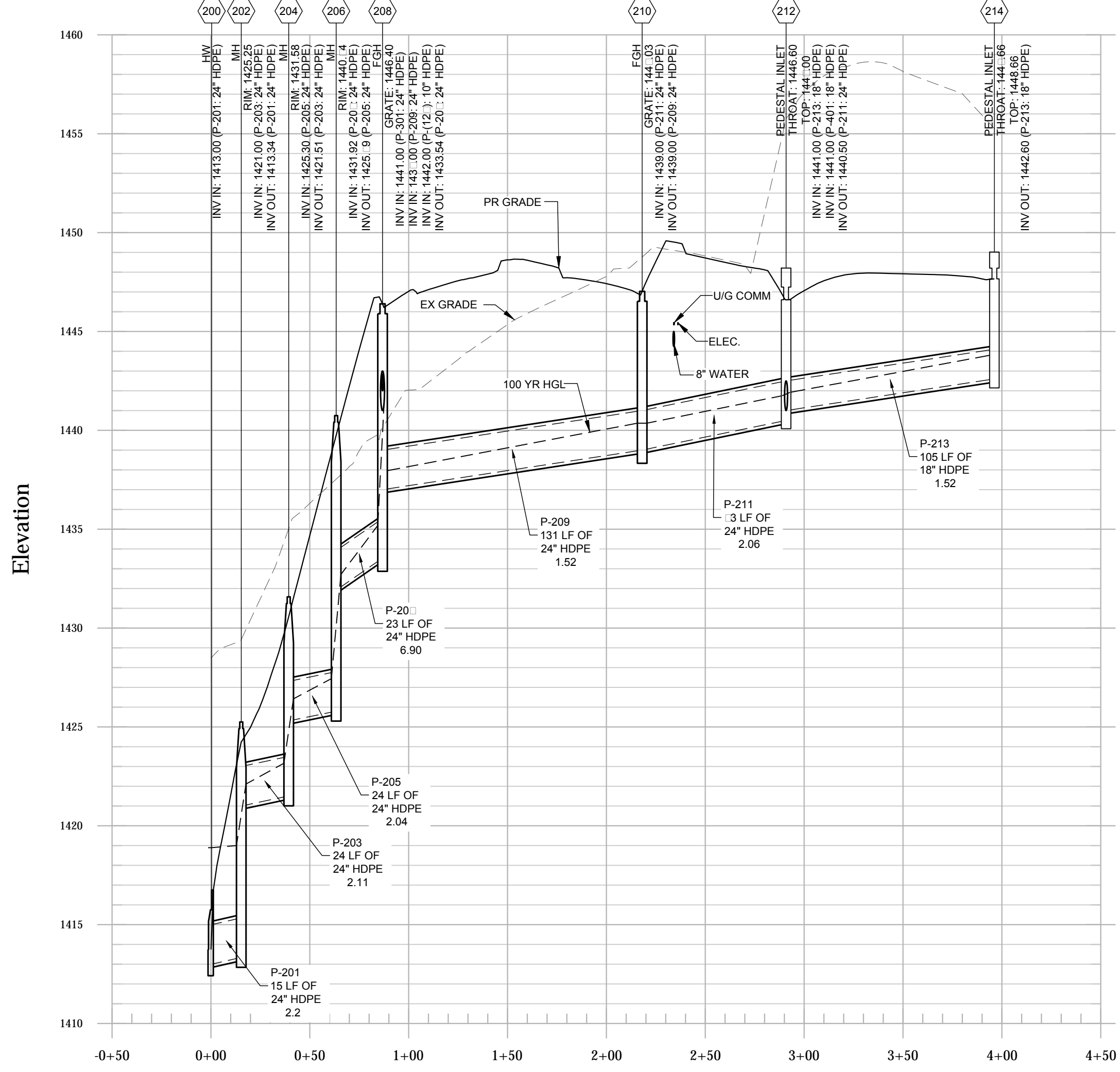
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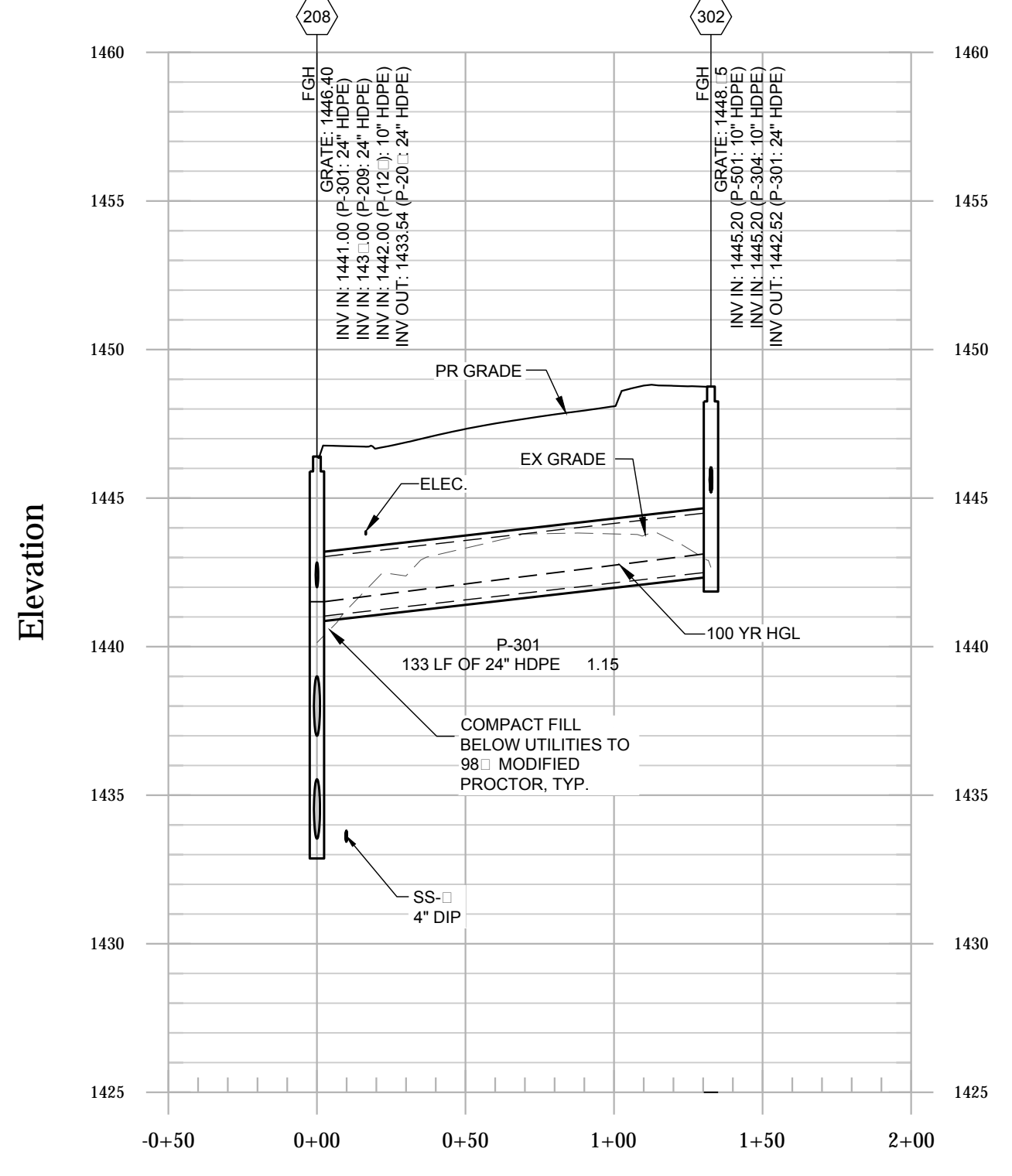
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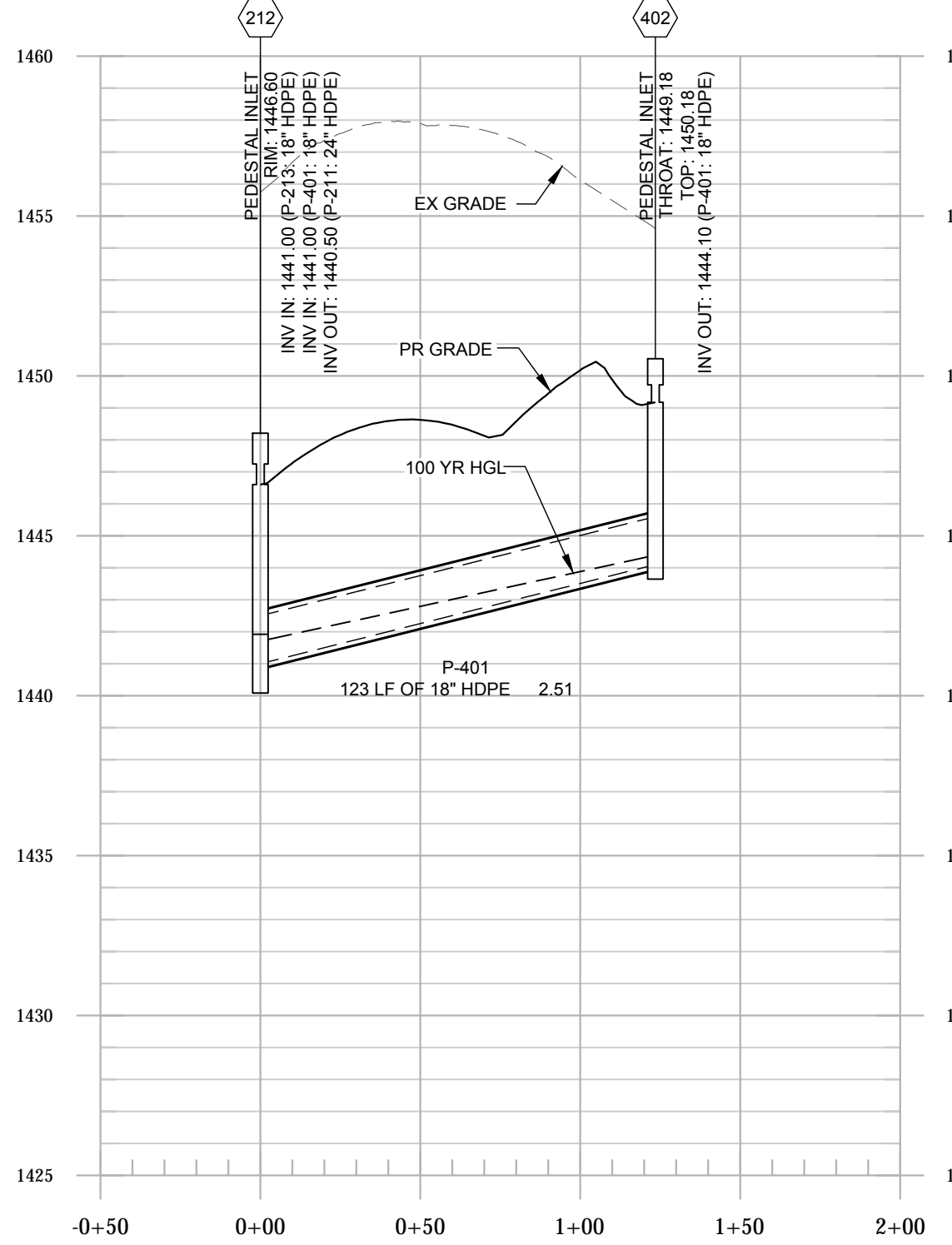
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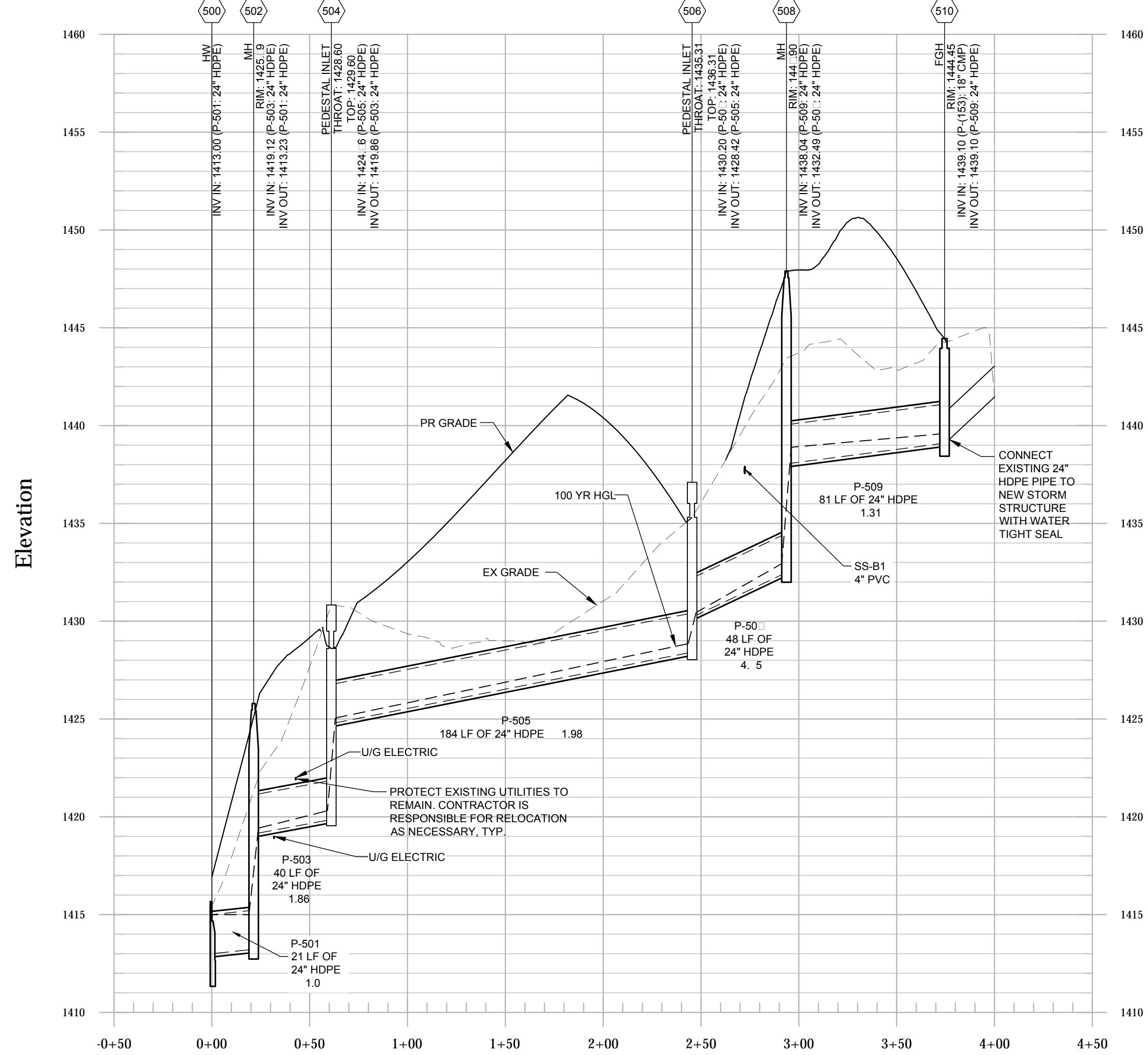
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STORM 212-402 1" = 50' H, 1" = 5' V

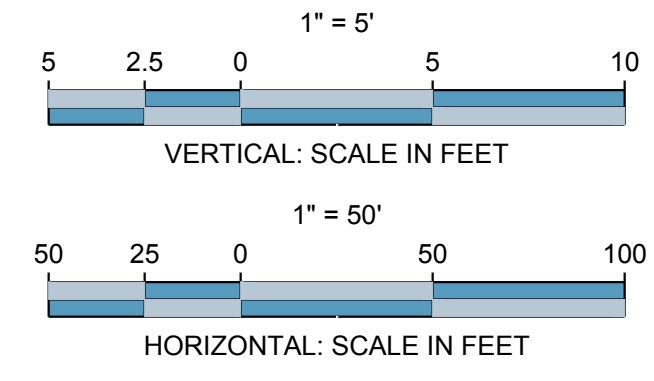


STORM 500-508 1" = 50' H, 1" = 5' V



GENERAL NOTES:

- PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- EXISTING UTILITY DEPTHS ARE APPROXIMATED BASED ON 4 FT COVER FROM THE EXISTING GROUND SURFACE. PROPOSED UTILITY DEPTHS ARE BASED ON 4 FT COVER FROM THE PROPOSED GROUND SURFACE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY DEPTHS AT CROSSING AND CONTACT ENGINEER IMMEDIATELY IF CONFLICTS ARE ENCOUNTERED.
- 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.
- MAINTAIN MINIMUM 2' OF COVER OVER METAL AND PLASTIC PIPES DURING CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY INFORMATION OF THE CONTROL STRUCTURE TO THE ENGINEER 4 WEEKS PRIOR TO REQUESTING FINAL ACCEPTANCE. AS-BUILT INFORMATION SHOULD INCLUDE ALL RIM, INVERT, ORIFICE, WEIR, AND BOX DIMENSIONS FOR THE CONTROL STRUCTURES ALONG WITH AS-BUILT TOPOGRAPHY OF THE STORMWATER POND, INCLUDING TOPOGRAPHY BELOW THE WATER SURFACE ELEVATION TO THE BOTTOM OF THE POND. THE AS-BUILT SURVEY INFORMATION SHOULD ALSO INCLUDE THE AS-BUILT INFORMATION FOR THE DISCHARGE PIPE FROM THE OUTLET CONTROL STRUCTURE TO WHERE IT DISCHARGES INTO THE RIGHT OF WAY OR ON-GRADE. ONE REVIEW OF THE AS-BUILT SYSTEM AND STORM MODELING IS COVERED BY THE OWNER. ADDITIONAL ENGINEERING COSTS FOR AS-BUILT REVIEW AND STORM MODELING OF THE DETENTION SYSTEM WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IN ORDER TO ADDRESS SAFETY CONSIDERATIONS ASSOCIATED WITH THE DETENTION POND, CONTRACTOR SHOULD INSTALL A 4' HIGH BLACK VINYL COATED CHAIN LINK FENCE AROUND THE DETENTION POND.



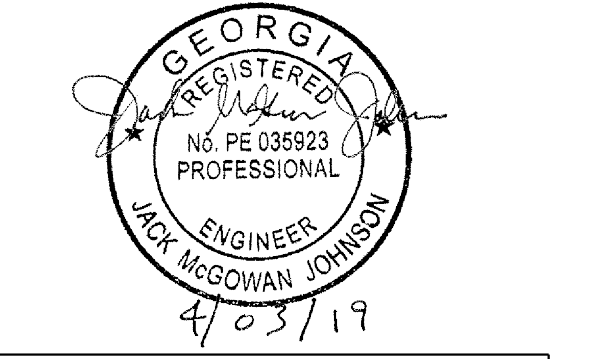
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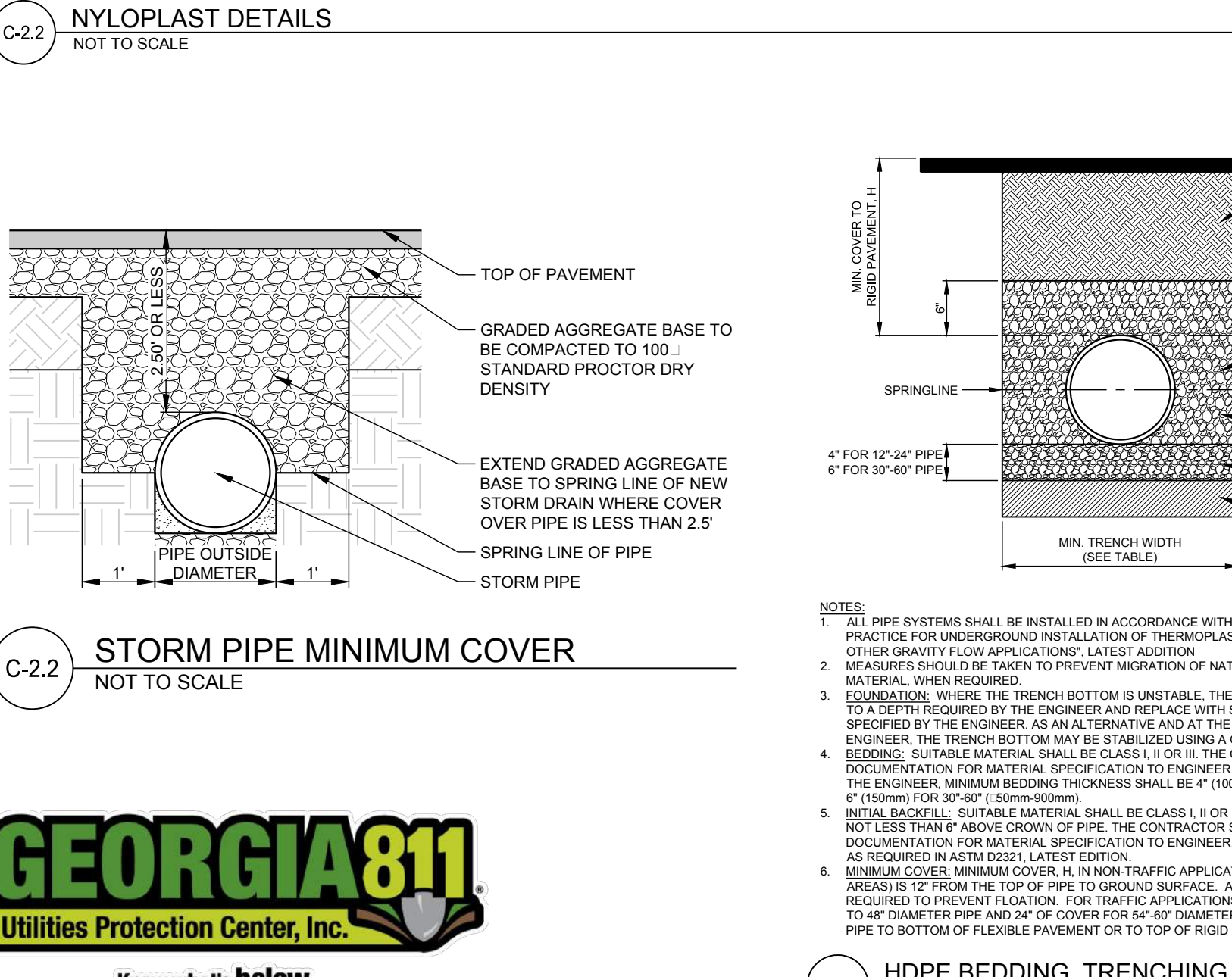
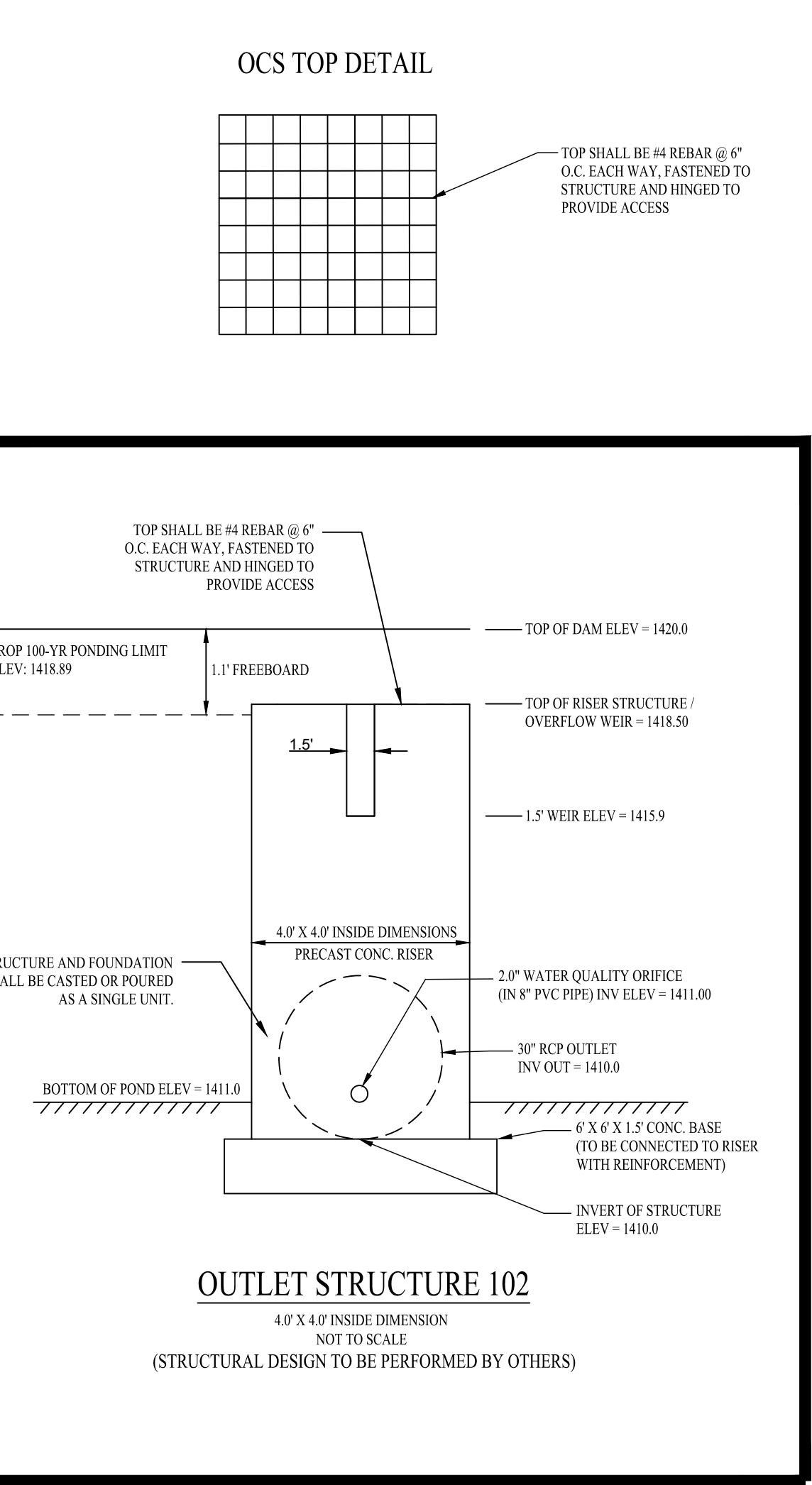
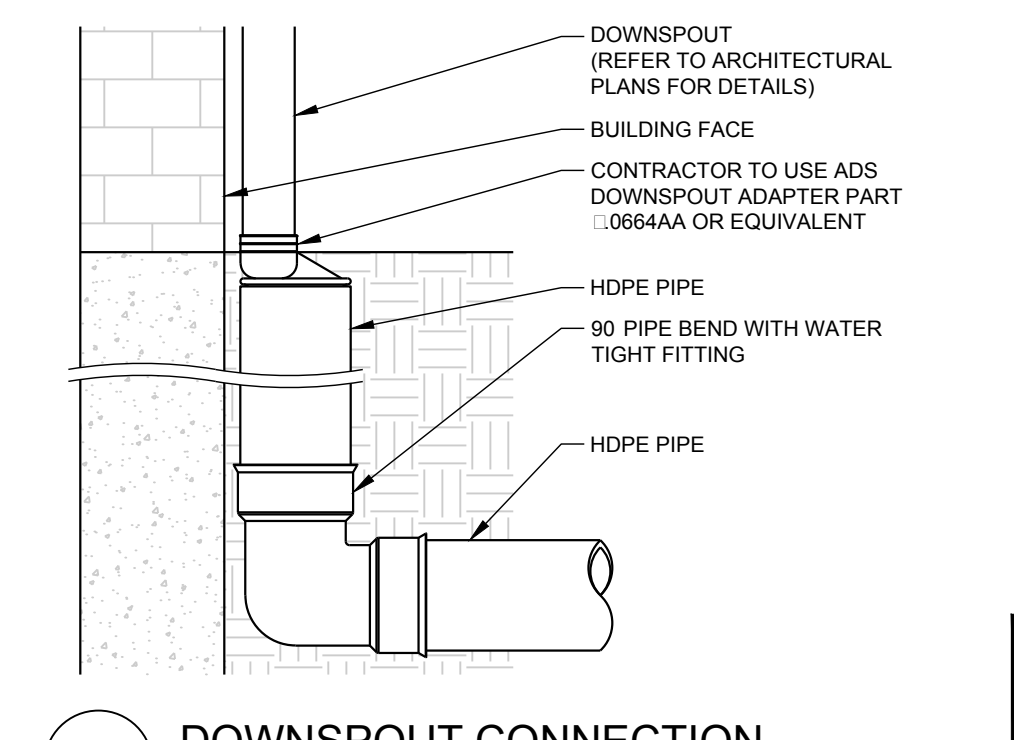
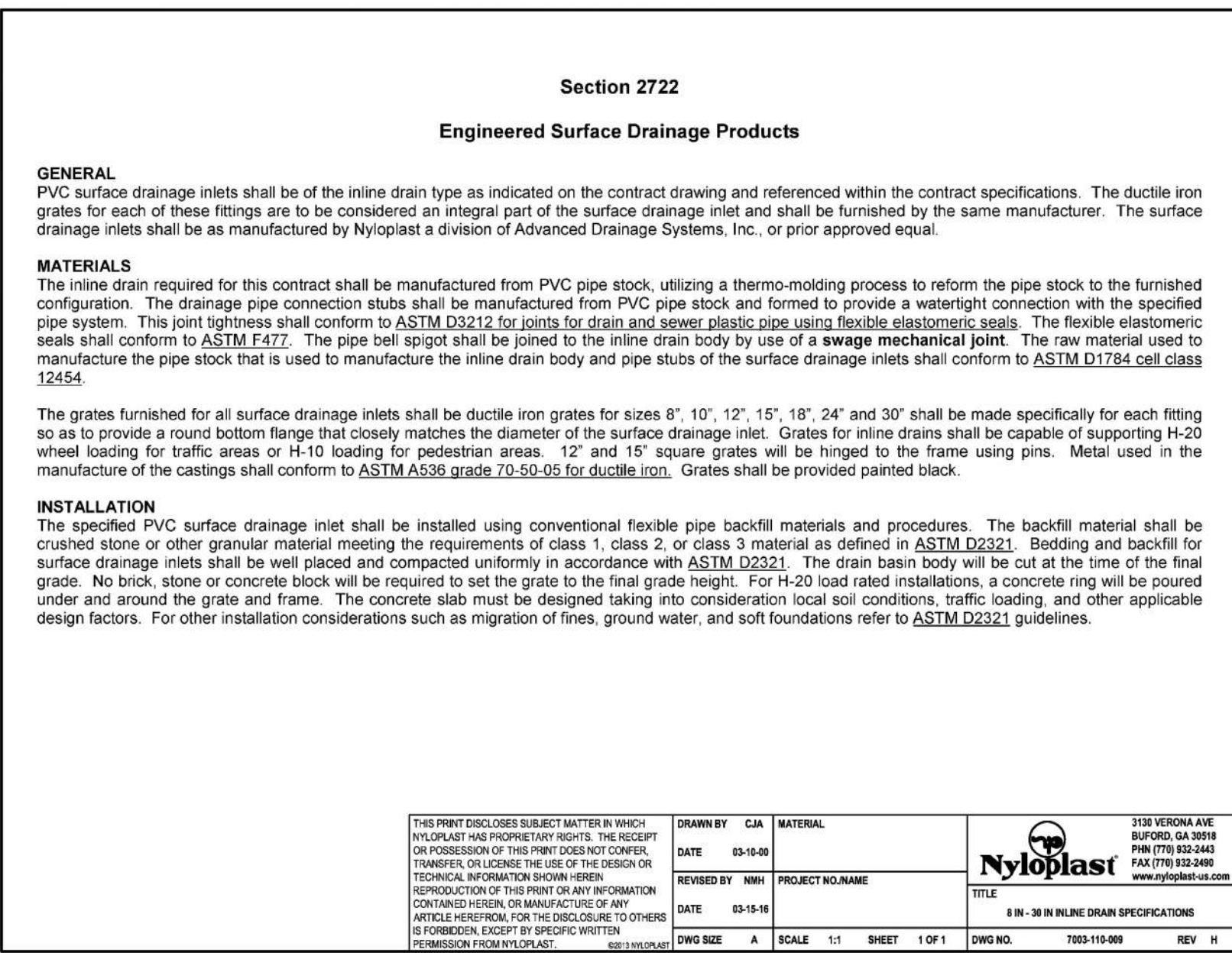
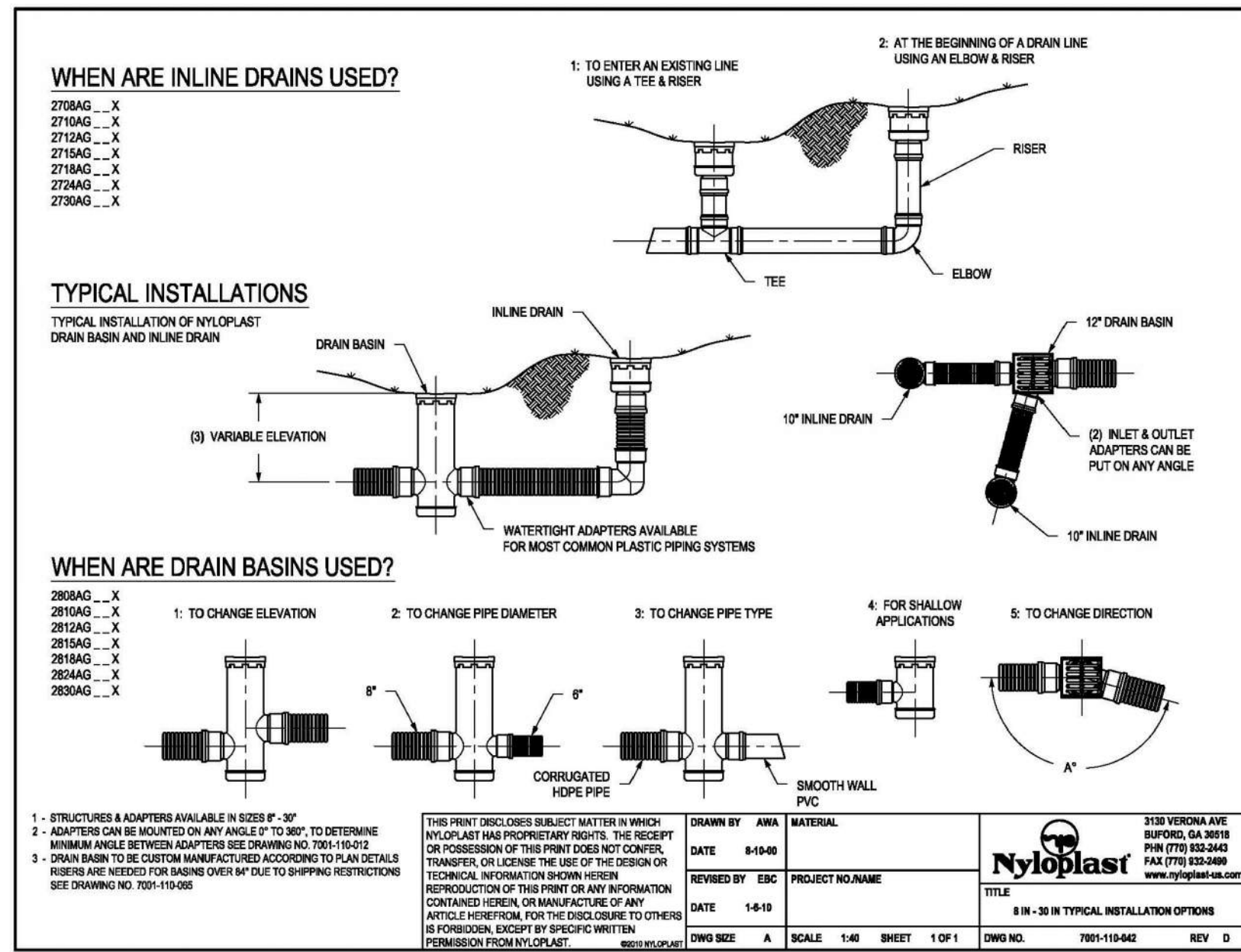
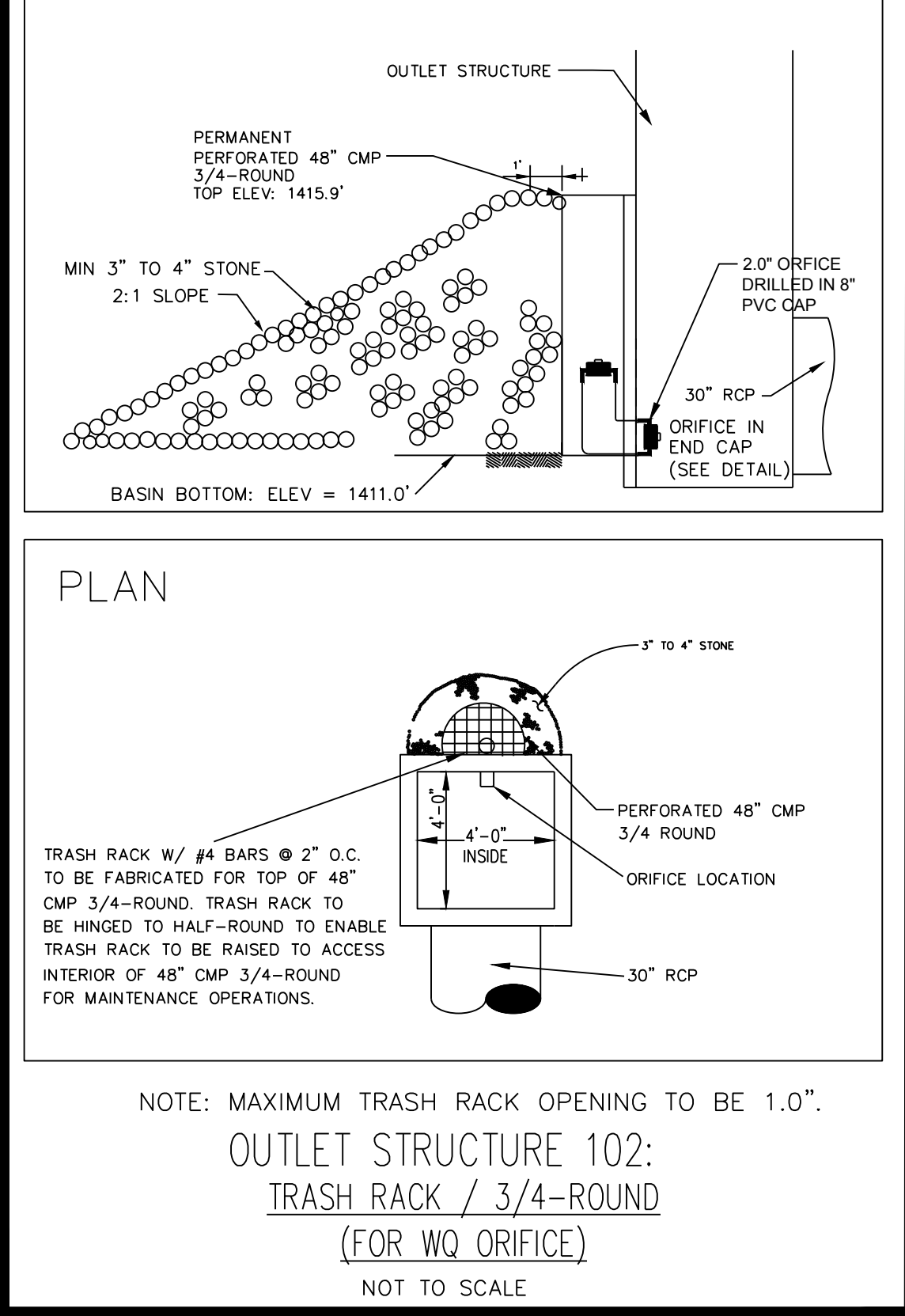
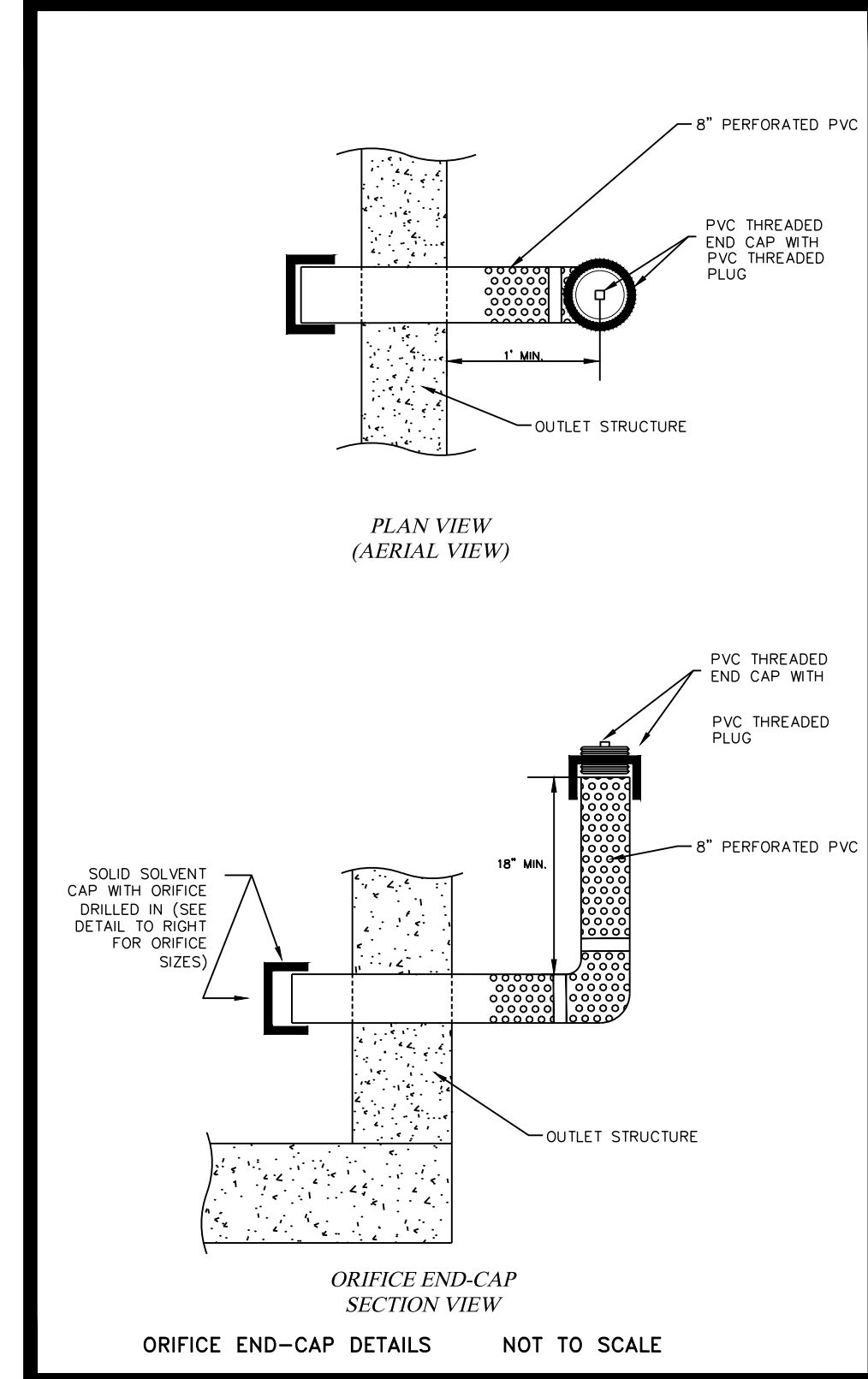
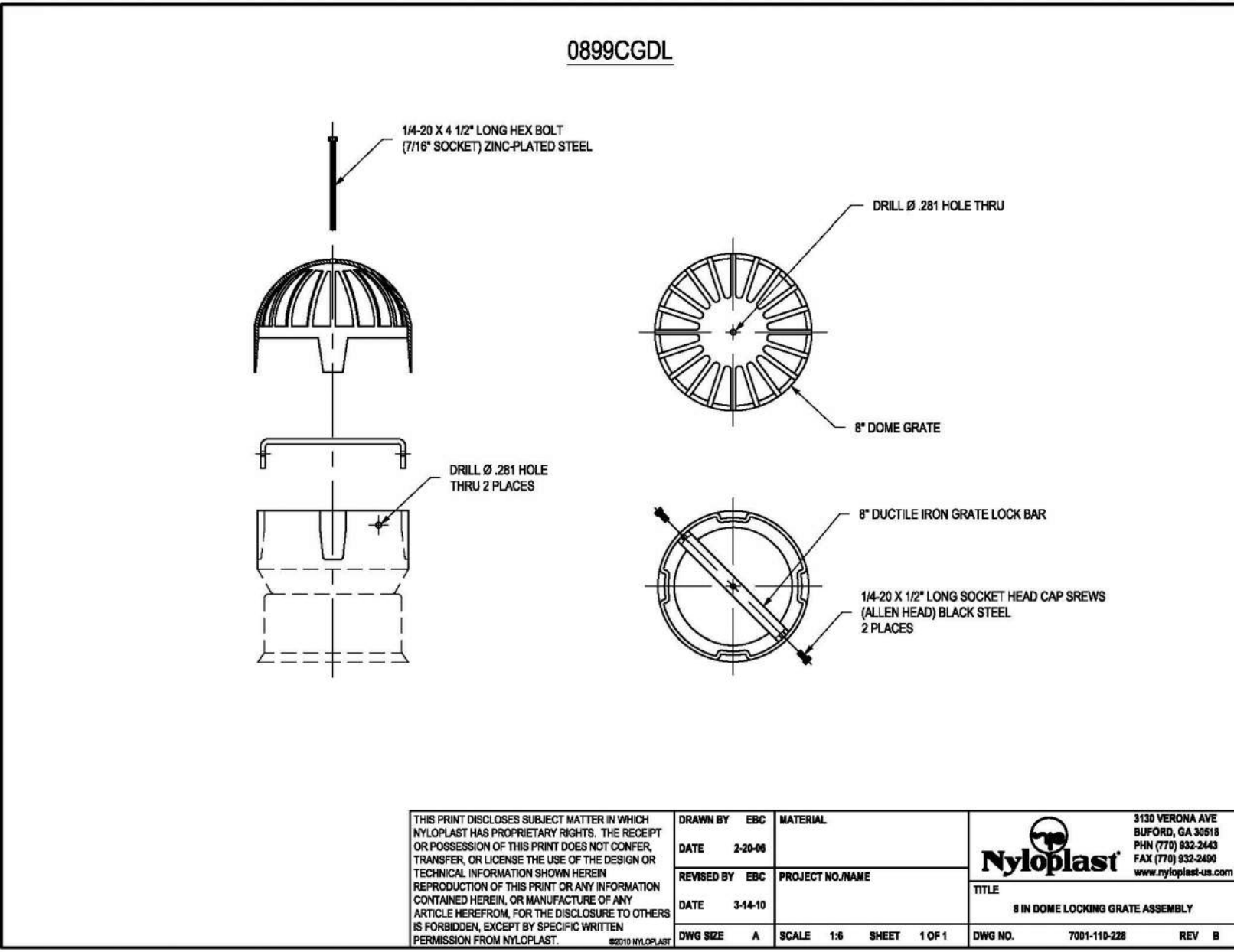
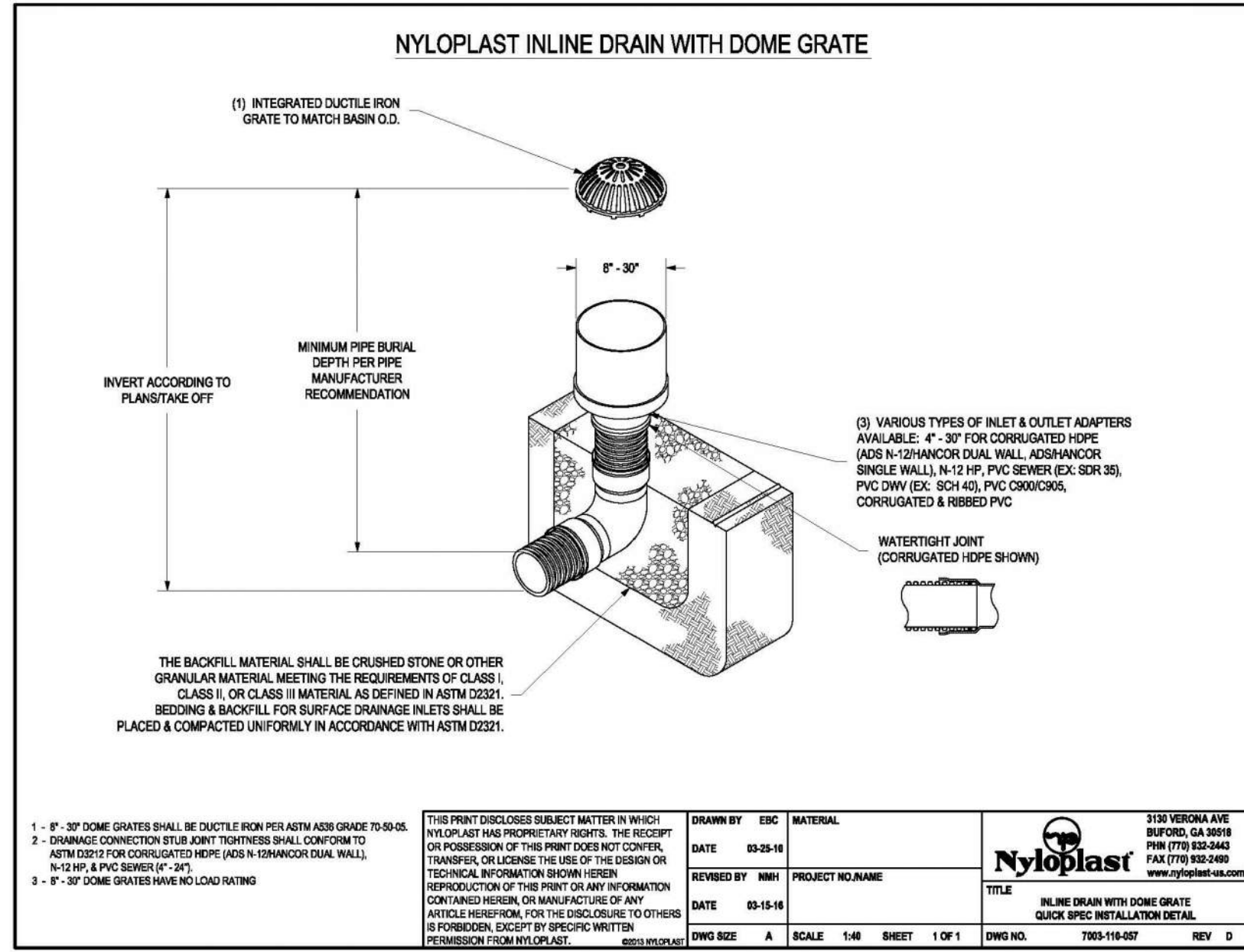
PROJECT NUMBER

SHEET TITLE

STORM DRAINAGE PROFILES

SHEET NUMBER

C-2.1



No.	Date	Description

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DATE

PROJECT NUMBER

SHEET TITLE

STORM DRAINAGE DETAILS

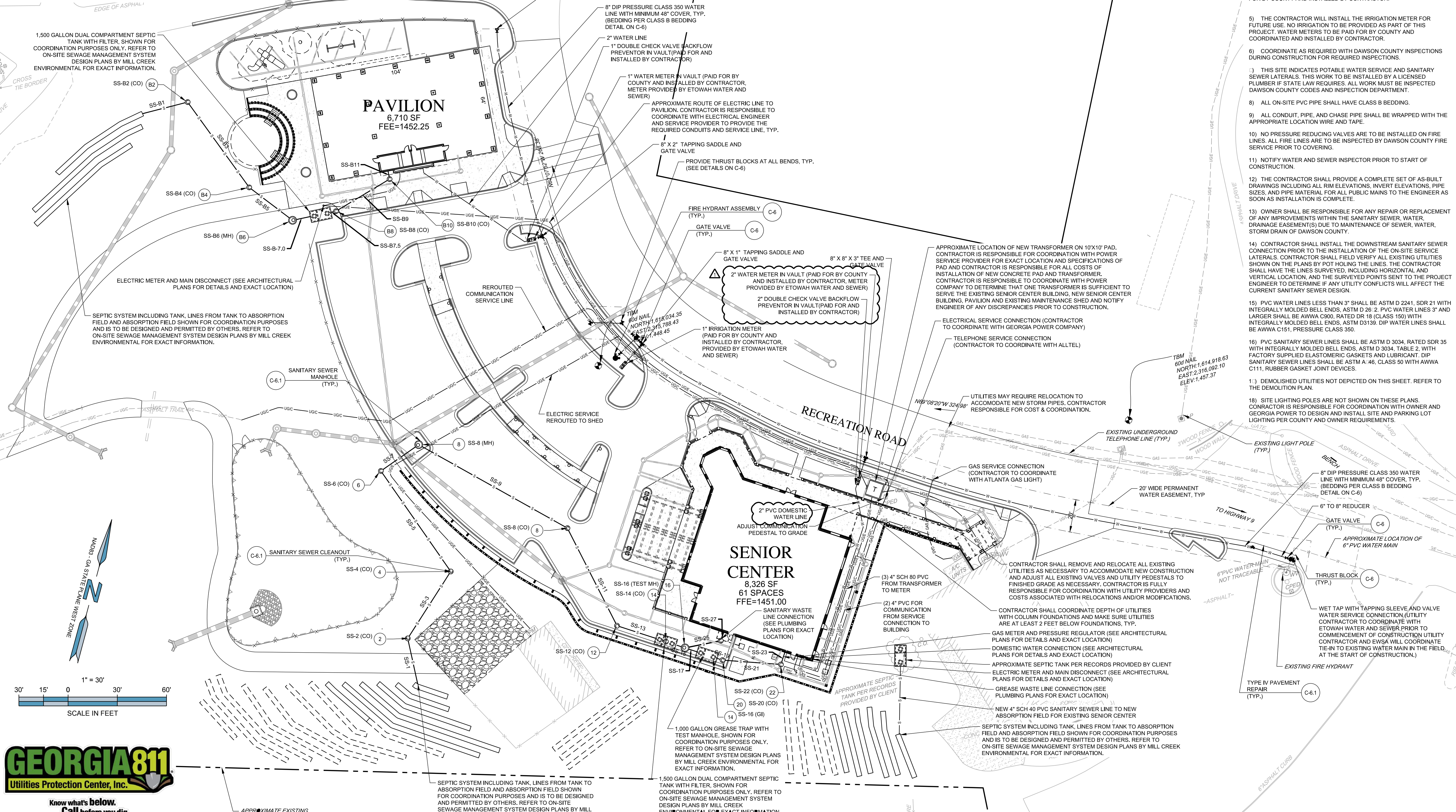
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LEGEND	
	EXISTING FENCE LINE
	PROPERTY LINE
	EXISTING CABLE TELEVISION LINE
	EXISTING FIBER OPTIC LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING UNDERGROUND POWER LINE
	EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING GAS LINE
	EXISTING SANITARY SEWER LINE
	EXISTING WATER LINE
	EXISTING STORM LINE
	PROPOSED CABLE TELEVISION LINE
	PROPOSED FIBER OPTIC LINE
	PROPOSED OVERHEAD POWER LINE
	PROPOSED UNDERGROUND POWER LINE
	PROPOSED UNDERGROUND TELEPHONE LINE
	PROPOSED GAS LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED WATER LINE
	PROPOSED FIRE WATER LINE
	PROPOSED STORM LINE

WATER SPIGOT AND CONTROL VALVE. LINES SERVING SPIGOT NOT TRACEABLE. CONTRACTOR IS RESPONSIBLE TO LOCATE WATER LINES PRIOR TO CONSTRUCTION AND RELOCATE AS NECESSARY TO ACCOMMODATE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO ANY UTILITY DISRUPTION. THERE MAY BE OTHER UTILITIES NOT SHOWN HEREON THAT REQUIRE RELOCATION. CONTRACTOR IS FULLY RESPONSIBLE FOR COST AND COORDINATION.



- UTILITY NOTES:**
- 1) GEORGIA POWER COMPANY WILL PROVIDE UNDERGROUND ELECTRICAL SERVICE FROM THE EXISTING SERVICE POLE TO THE TRANSFORMER PAD. CONTRACTOR MUST PROVIDE TWO 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 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) SOUTHERN COMPANY GAS 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 SOUTHERN COMPANY GAS.
 - 3) CONTRACTOR MUST PROVIDE AND INSTALL TWO (2) 4" PVC CONDUITS WITH PULL STRING, FROM THE EXISTING TELEPHONE SERVICE POLE TO THE TELEPHONE BOARD IN THE BUILDING. THE CONTRACTOR MUST ALSO PROVIDE A #6 GROUND WIRE AT THE TELEPHONE BOARD FOR THE TELEPHONE COMPANY TO INSTALL A PHONE LINE.
 - 4) ETOWAH WATER AND SEWER AUTHORITY WILL FURNISH THE DOMESTIC WATER METER. THE CONTRACTOR MUST TAP THE EXISTING WATER LINE, PROVIDE AND INSTALL THE METER BOX, DOUBLE CHECK BACKFLOW PREVENTER AND ENCLOSURE, AND THE WATER SERVICE LINE FROM THE WATER METER TO THE BUILDING. WATER METER TO BE PAID FOR BY COUNTY AND INSTALLED BY CONTRACTOR.
 - 5) THE CONTRACTOR WILL INSTALL THE IRRIGATION METER FOR FUTURE USE. NO IRRIGATION TO BE PROVIDED AS PART OF THIS PROJECT. WATER METERS TO BE PAID FOR BY COUNTY AND COORDINATED AND INSTALLED BY CONTRACTOR.
 - 6) COORDINATE AS REQUIRED WITH DAWSON COUNTY INSPECTIONS DURING CONSTRUCTION FOR REQUIRED INSPECTIONS.
 - 7) 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 DAWSON COUNTY CODES AND INSPECTION DEPARTMENT.
 - 8) ALL ON-SITE PVC PIPE SHALL HAVE CLASS B BEDDING.
 - 9) ALL CONDUIT, PIPE, AND CHASE PIPE SHALL BE WRAPPED WITH THE APPROPRIATE LOCATION WIRE AND TAPE.
 - 10) NO PRESSURE REDUCING VALVES ARE TO BE INSTALLED ON FIRE LINES. ALL FIRE LINES ARE TO BE INSPECTED BY DAWSON COUNTY FIRE SERVICE PRIOR TO COVERING.
 - 11) NOTIFY WATER AND SEWER INSPECTOR PRIOR TO START OF CONSTRUCTION.
 - 12) 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.
 - 13) 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 DAWSON COUNTY.
 - 14) CONTRACTOR SHALL INSTALL THE DOWNSTREAM SANITARY SEWER CONNECTION PRIOR TO THE INSTALLATION OF THE ON-SITE SERVICE LATERALS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE PLANS BY POT HOULING 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.
 - 15) PVC WATER LINES LESS THAN 3" SHALL BE ASTM D 2241, SDR 21 WITH INTEGRALLY MOLDED BELL ENDS, ASTM D 26. 2" 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, PRESSURE CLASS 350.
 - 16) PVC SANITARY SEWER LINES SHALL BE ASTM D 3034, RATED SDR 35 WITH INTEGRALLY MOLDED BELL ENDS, ASTM A 46, CLASS 50 WITH AWWA C111, RUBBER GASKET JOINT DEVICES.
 - 17) DEMOLISHED UTILITIES NOT DEPICTED ON THIS SHEET. REFER TO THE DEMOLITION PLAN.
 - 18) SITE LIGHTING POLES ARE NOT SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OWNER AND GEORGIA POWER TO DESIGN AND INSTALL SITE AND PARKING LOT LIGHTING PER COUNTY AND OWNER REQUIREMENTS.

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

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JACK MCGOWAN JOHNSON
 4/03/19

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UTILITIES PLAN

SHEET NUMBER

C-3



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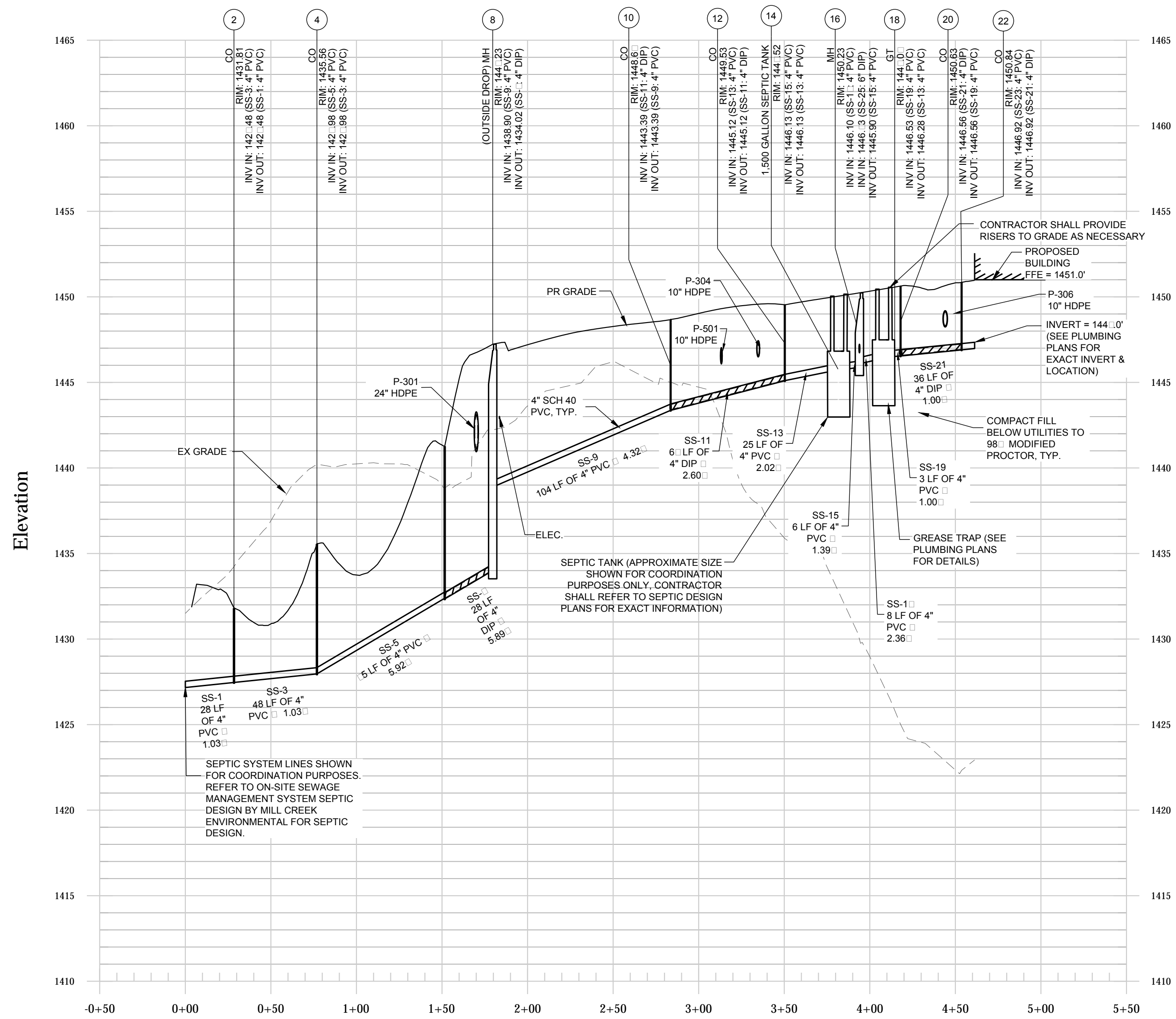
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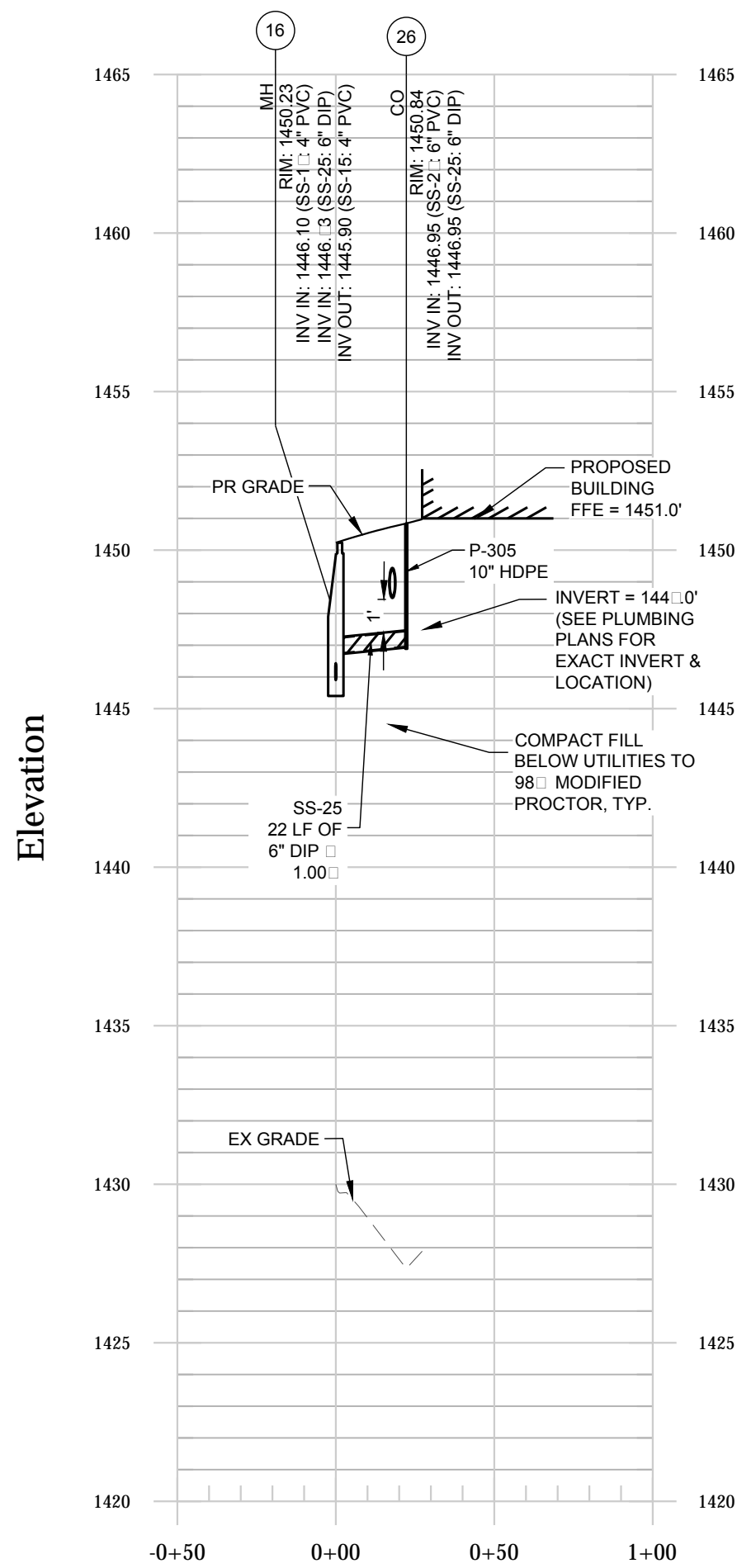
GENERAL NOTES:

- PIPE LENGTHS REFLECT THE PIPES LINEAR LENGTH AND ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- 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.
- 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.
- MAINTAIN MINIMUM 2' OF COVER OVER METAL AND PLASTIC PIPES DURING CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL PROVIDE WATER AND SEWER ASBUILT SURVEY A MINIMUM OF 8 WEEKS PRIOR TO CERTIFICATE OF OCCUPANCY.

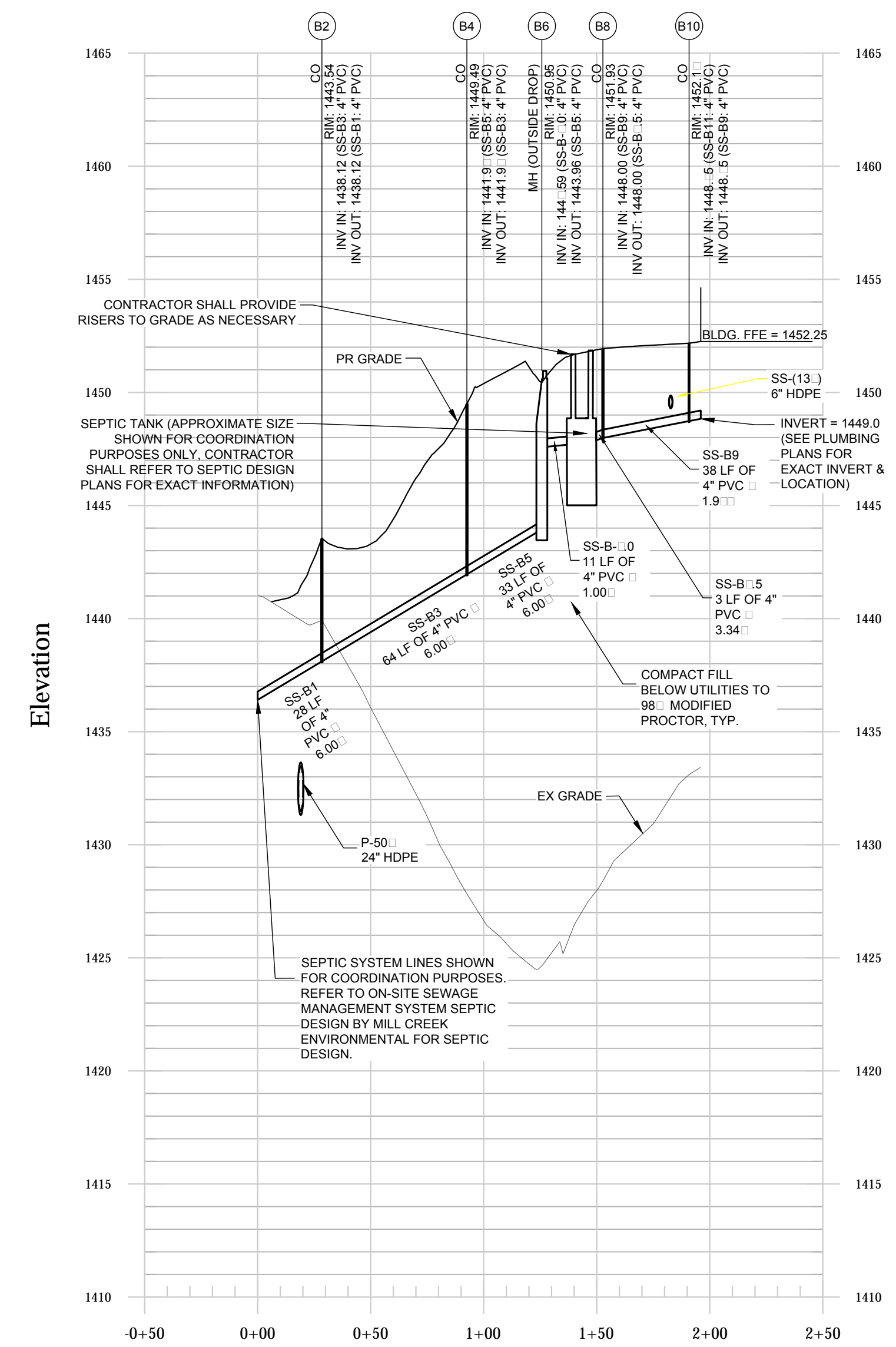
SANITARY SEWER 0-19
1" = 50' H, 1" = 5' V



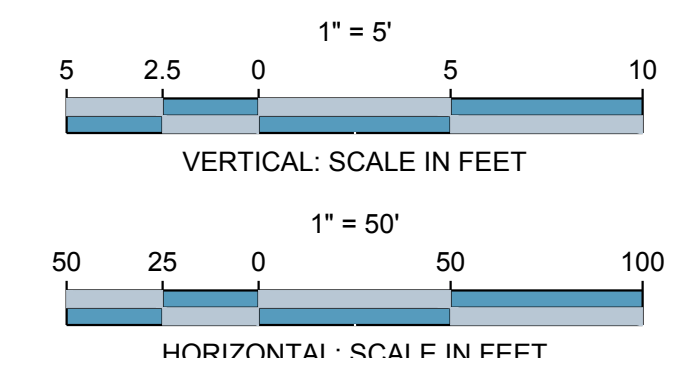
SANITARY SEWER 12-23
1" = 50' H, 1" = 5' V



SANITARY LINE B (PAVILION)
1" = 50' H, 1" = 5' V



Know what's below.
Call before you dig.



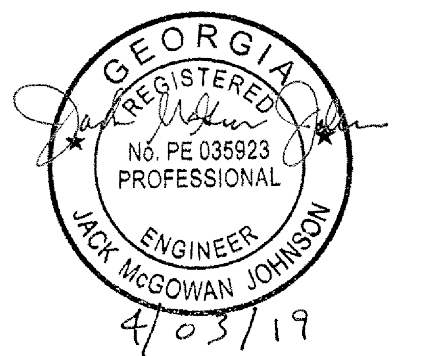
DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

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- 2019-04-03 COUNTY COMMENTS
- 2019-05-16 ADDENDUM 2

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

SHEET TITLE

SANITARY SEWER PROFILES

SHEET NUMBER

C-3.1

3/0/2019 6:24:19 PM
PROJECT NAME: DAWSONVILLE SENIOR CENTER EXPANSION
SHEET NUMBER: C-4
PROJECT NAME: DAWSONVILLE SENIOR CENTER EXPANSION
SHEET NUMBER: C-4
PROJECT NAME: DAWSONVILLE SENIOR CENTER EXPANSION
SHEET NUMBER: C-4

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

DAWSON COUNTY SENIOR CENTER EXPANSION

IN ACCORDANCE WITH GEORGIA NPDES PERMIT GAR #100001

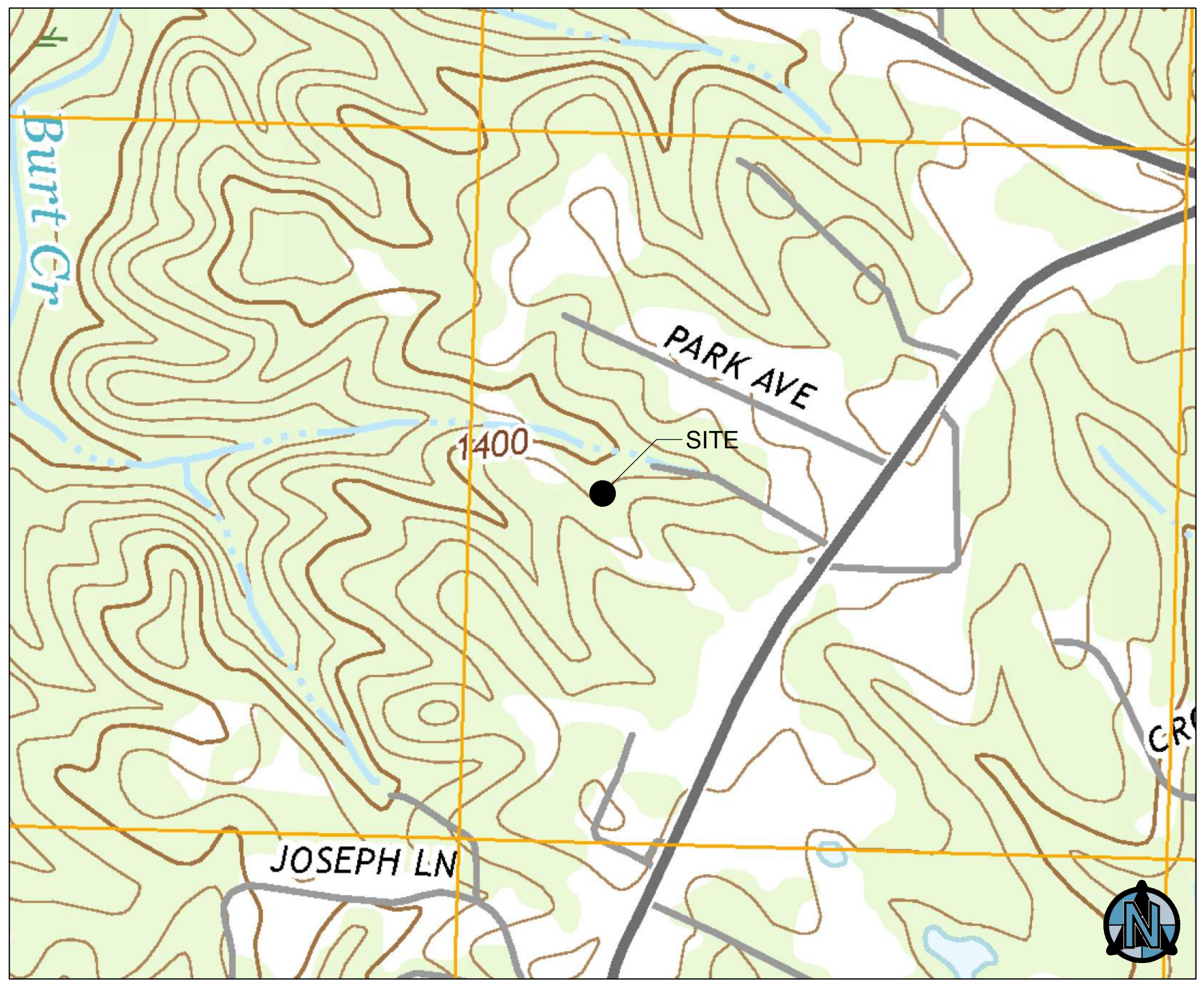
201 RECREATION RD

DAWSONVILLE, GA 30534

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-4.3 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-4.9 EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS

SITE DISTURBED AREA = 0.5 AC



VICINITY MAP, SCALE: 1" = 500'

PHASE-I WATER 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.						
MS-A	OF	10.09	0.016	10.09	YES	UNNAMED TRIBUTARY OF BURT CREEK	NO	5	NO

KEY:

OF: OUTFALL
 RW-D: RECEIVING WATER- DOWNSTREAM OF SITE
 RW-U: RECEIVING WATER- UPSTREAM OF SITE

THESE SITES ARE NOT RECOMMENDED FOR THE FOLLOWING REASONS:

MS-C: FLOWS IN THIS CHANNEL AREA NOT ADEQUATELY CONCENTRATED TO SAMPLE.

11 O.C.G.A. Sec. 12-2-6 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.

12 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 violated Bio F (Impaired Fish Community) and/or Bio M (Impaired Macroinvertebrate 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.

SITE DETAILS:

- THE PROPOSED SITE IMPROVEMENTS INCLUDE A NEW SENIOR CENTER AND ASSOCIATED INFRASTRUCTURE INCLUDING A PARKING LOT, DETENTION FACILITY, AND UTILITIES.
- TOTAL AREA OF THE SITE = 0.5 ACRES
- CURVE NUMBER, EXISTING CONDITION = 66
- CURVE NUMBER, DEVELOPED CONDITION = 72
- 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).
- THERE ARE NO KNOWN WETLANDS ON THE SITE. ALL WETLANDS DELINEATED ARE SHOWN IN THIS PLAN.
- NO PORTION OF THE SUBJECT PROPERTY LIES WITHIN A 100 YEAR FLOOD HAZARD AREA PER FIRM MAP NUMBER 13085C0103C DATED 2018-04-04

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.

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:



24 HR CONTACT:
DAVID MCKEE
(706) 344-3501

Foresite Group, Inc.
5185 Peachtree Pkwy.
Suite 240
Norcross, GA 30092
770.368.1399
770.368.1944
www.foresite.net

ISSUED:
MARCH 28, 2018

ANTICIPATED ACTIVITY SCHEDULE							
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 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.

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: Jack McGowan Johnson
Date: 4/03/19
Signature of Engineer: 00006080827
Date: 2019-03-24
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."

SECONDARY PERMITTEES

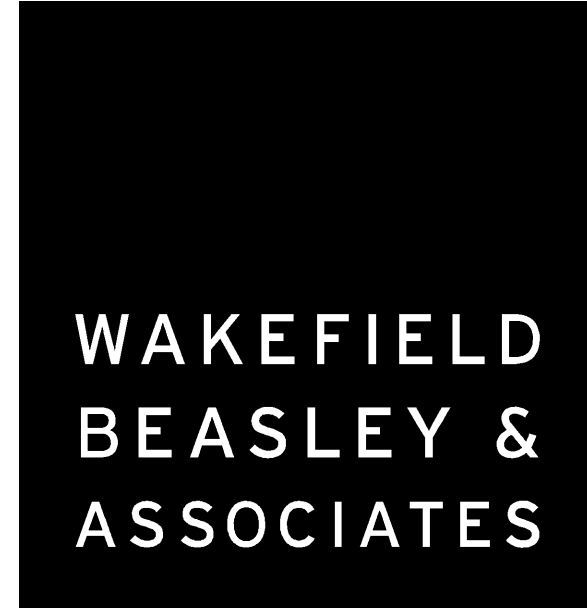
A COMPLETE LIST OF SECONDARY PERMITTEES AND CONTACT INFORMATION SHOULD BE MAINTAINED IN THE SPACE BELOW, AND A COPY OF THE PLAN (AND ANY SUBSEQUENT REVISIONS TO THE PLAN) SHALL BE PROVIDED TO EACH SECONDARY PERMITTEE. EACH SECONDARY PERMITTEE SHALL SIGN A WRITTEN ACKNOWLEDGEMENT OF RECEIPT IN THE SPACE BELOW. THE RECORD OF ACKNOWLEDGEMENTS MUST REMAIN IN THE ON-SITE RECORDS.

1.	NAME	COMPANY	ADDRESS
	CITY/STATE/ZIP	LEVEL IA CERTIFICATION NO.	SIGNATURE
2.	NAME	COMPANY	ADDRESS
	CITY/STATE/ZIP	LEVEL IA CERTIFICATION NO.	SIGNATURE
3.	NAME	COMPANY	ADDRESS
	CITY/STATE/ZIP	LEVEL IA CERTIFICATION NO.	SIGNATURE



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2019-05-16 ADDENDUM 2

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

EROSION, SEDIMENTATION, & POLLUTION CONTROL COVER

SHEET NUMBER

C-4

SHEET NAME: INITIAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN. SHEET NUMBER: C-4.3. PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION. DATE: 4/03/19. TIME: 3:06:20 PM.

SITE DATA	
LAND LOTS 248 & 249, 13TH DISTRICT	
TOTAL SITE AREA =	1,266 AC.
TOTAL DISTURBED AREA =	1.5 AC.
TOTAL STORAGE REQUIRED =	498,511 CY.
STORAGE PROVIDED:	
Sd2 STORAGE PROVIDED =	194 CY.
Sd3 STORAGE PROVIDED =	668 CY.
Sd4 STORAGE PROVIDED =	593 CY.
TOTAL STORAGE PROVIDED =	1,455 CY.

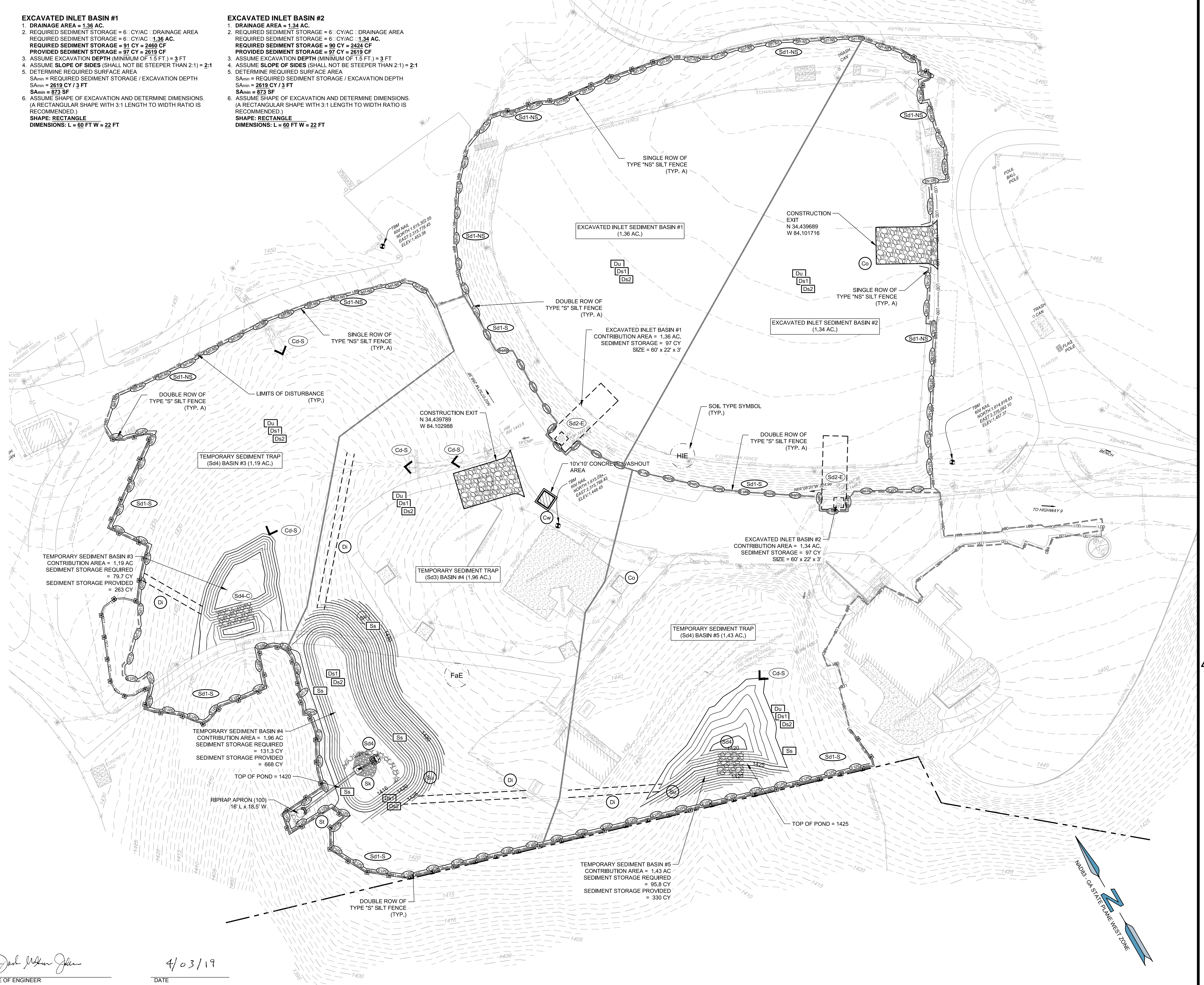
SOIL TYPE	
FaE	FANNIN FINE SANDY LOAM, 10 TO 25 PERCENT SLOPE
HIE	HAYESVILLE SANDY LOAM, 10 TO 25 PERCENT SLOPES

EROSION NOTES:

- THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.
 - ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
 - 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.
 - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.
 - THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE ACCUMULATED SILT IS ONE-THIRD (1/3) FULL FOR ALL EROSION & SEDIMENT CONTROL STRUCTURES.
 - MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
- SEE ADDITIONAL EROSION CONTROL NOTES ON SHEETS C-4 THROUGH C-4.2

EXCAVATED INLET BASIN #1
 1. DRAINAGE AREA = 1.36 AC.
 2. REQUIRED SEDIMENT STORAGE = 6 CY/AC DRAINAGE AREA
 TOTAL REQUIRED SEDIMENT STORAGE = 8 CY/AC 1.36 AC.
 REQUIRED SEDIMENT STORAGE = 91 CY = 2460 CF
 PROVIDED SEDIMENT STORAGE = 97 CY = 2619 CF
 ASSUME EXCAVATION DEPTH (MINIMUM OF 1.5 FT.) = 3 FT
 ASSUME SLOPE OF SIDES (SHALL NOT BE STEEPER THAN 2:1) = 2:1
 DETERMINE REQUIRED SURFACE AREA
 SA_{min} = REQUIRED SEDIMENT STORAGE / EXCAVATION DEPTH
 SA_{min} = 2619 CY / 3 FT
 SA_{min} = 873 SF
 ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS.
 (A RECTANGULAR SHAPE WITH 3:1 LENGTH TO WIDTH RATIO IS RECOMMENDED.)
 SHAPE: RECTANGLE
 DIMENSIONS: L = 60 FT W = 22 FT

EXCAVATED INLET BASIN #2
 1. DRAINAGE AREA = 1.34 AC.
 2. REQUIRED SEDIMENT STORAGE = 6 CY/AC DRAINAGE AREA
 TOTAL REQUIRED SEDIMENT STORAGE = 8 CY/AC 1.34 AC.
 REQUIRED SEDIMENT STORAGE = 90 CY = 2424 CF
 PROVIDED SEDIMENT STORAGE = 97 CY = 2619 CF
 ASSUME EXCAVATION DEPTH (MINIMUM OF 1.5 FT.) = 3 FT
 ASSUME SLOPE OF SIDES (SHALL NOT BE STEEPER THAN 2:1) = 2:1
 DETERMINE REQUIRED SURFACE AREA
 SA_{min} = REQUIRED SEDIMENT STORAGE / EXCAVATION DEPTH
 SA_{min} = 2619 CY / 3 FT
 SA_{min} = 873 SF
 ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS.
 (A RECTANGULAR SHAPE WITH 3:1 LENGTH TO WIDTH RATIO IS RECOMMENDED.)
 SHAPE: RECTANGLE
 DIMENSIONS: L = 60 FT W = 22 FT



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GEORGIA REGISTERED PROFESSIONAL ENGINEER
 JACK MCGOWAN JOHNSON
 4/03/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

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Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE _____

PROJECT NUMBER _____

INITIAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

SHEET NUMBER

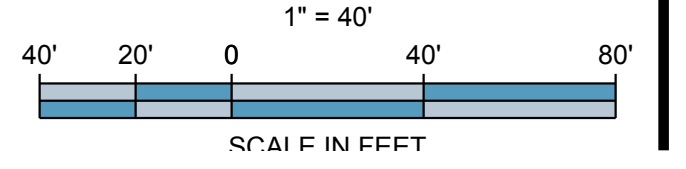
C-4.3

GEORGIA811
Utilities Protection Center, Inc.

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Jack McGowan Johnson 4/03/19

SIGNATURE OF ENGINEER _____ DATE _____
 000006080827 2019-03-24
 CERTIFICATION _____ EXPIRATION _____



3/06/2019 1:05:34 PM
 SHEET NAME: INTERMEDIATE EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN SHEET NUMBER: C-4.4 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION
 ENAME: F:\121020 Dawson Senior Center - Dawson County, GA\DWSC-4.4 ESPC Intermediate Plan.dwg

SITE DATA	
LAND LOTS 248 & 249, 13TH DISTRICT	
TOTAL SITE AREA =	1.266 AC.
TOTAL DISTURBED AREA =	1.5 AC.
TOTAL STORAGE REQUIRED =	498.51 CY.
STORAGE PROVIDED:	
Sd2 STORAGE PROVIDED =	51.5 CY.
Sd3 STORAGE PROVIDED =	1435 CY.
Sd4 STORAGE PROVIDED =	265 CY.
SILT FENCE STORAGE =	65 CY.
TOTAL STORAGE PROVIDED =	1816.5 CY.

SOIL TYPE	
FaE	FANNIN FINE SANDY LOAM, 10 TO 25 PERCENT SLOPE
H1E	HAYESVILLE SANDY LOAM, 10 TO 25 PERCENT SLOPES

EROSION NOTES:

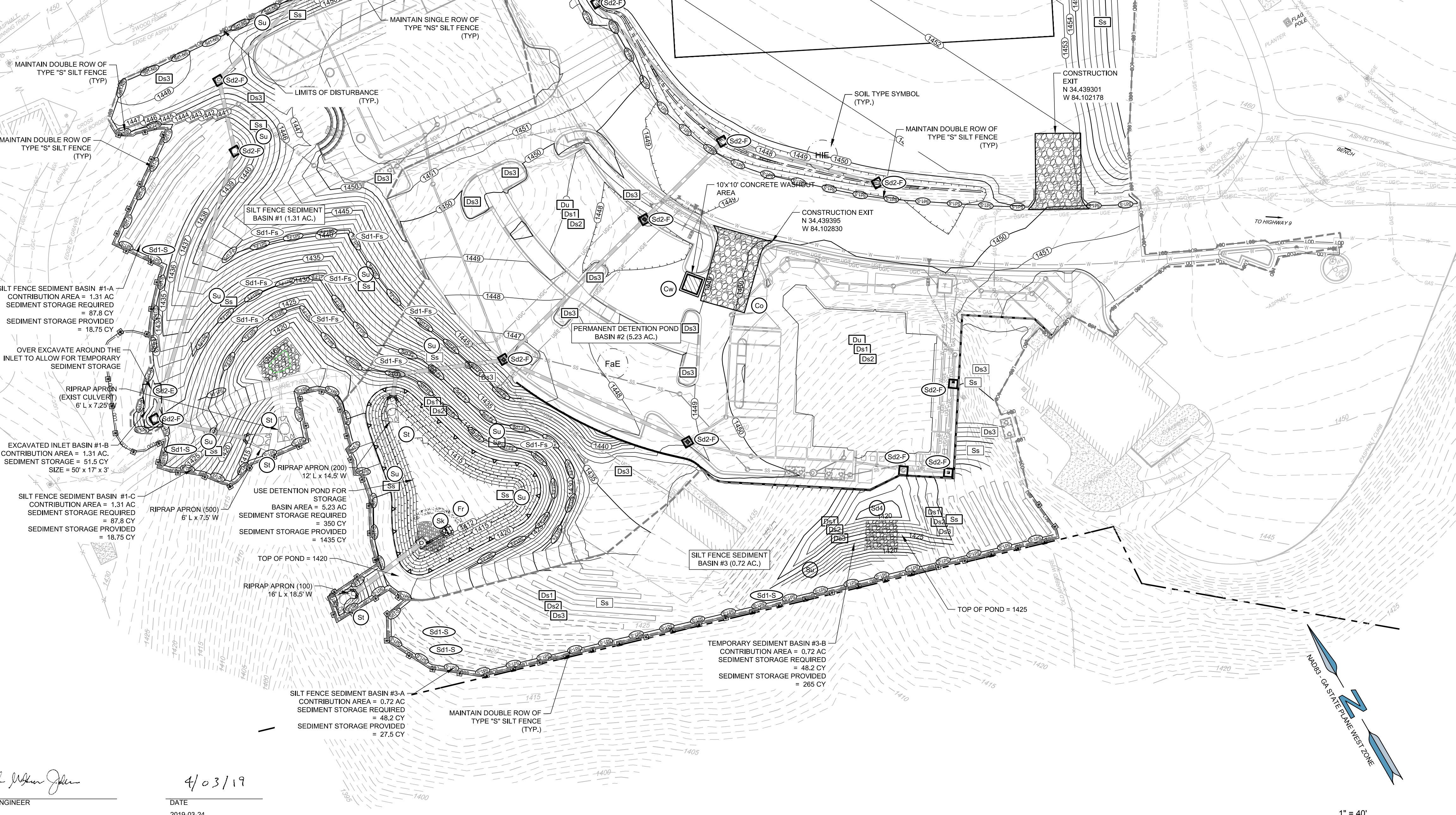
- THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.
 - ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
 - EROSION 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.
 - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.
 - THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE ACCUMULATED SILT IS ONE-THIRD (1/3) FULL FOR ALL EROSION & SEDIMENT CONTROL STRUCTURES.
 - MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
- SEE ADDITIONAL EROSION CONTROL NOTES ON SHEETS C-4 THROUGH C-4.2

SILT FENCE SEDIMENT BASIN #1-A
 1. DRAINAGE AREA = 1.31 AC.
 2. REQUIRED SEDIMENT STORAGE = 6 CY/AC DISTURBED AREA
 REQUIRED SEDIMENT STORAGE = 6 CY/AC 1.31 AC.
REQUIRED SEDIMENT STORAGE = 87.8 CY = 2370 CF
 PROVIDED SEDIMENT STORAGE = 18.75 CY = 506 CF
 3. SEDIMENT CLEANOUT DEPTH (MINIMUM OF 1.5 FT.) = 1.5 FT
 4. SLOPES = 3:1
 5. SEDIMENT STORAGE (SF) PER LINEAR FOOT OF SILT FENCE
 $SF = \frac{1}{2} B H = \frac{1}{2} 4.5' \times 1.5 = 3.375 SF \text{ per LF}$
 6. SILT FENCE PROVIDED FOR USE AS STORAGE = 150.0 LF
 1. STORAGE VOLUME = 506 CF = 18.75 CY

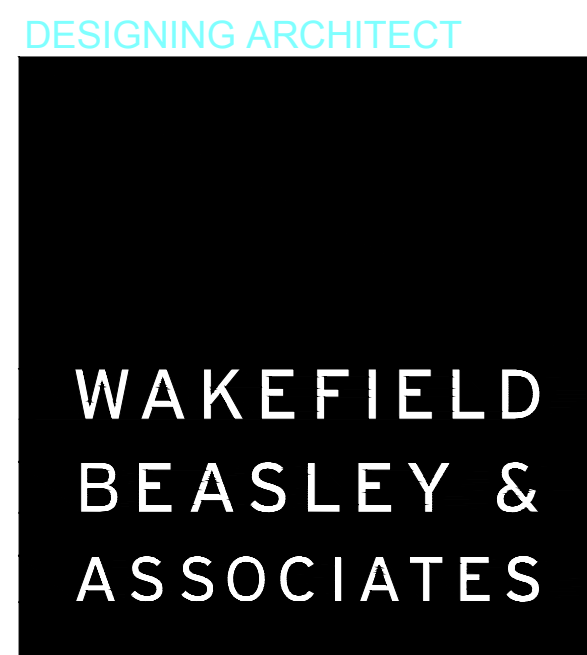
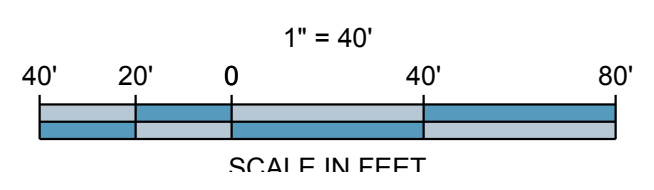
SILT FENCE SEDIMENT BASIN #3-A
 1. DRAINAGE AREA = 0.72 AC.
 2. REQUIRED SEDIMENT STORAGE = 6 CY/AC DISTURBED AREA
 REQUIRED SEDIMENT STORAGE = 6 CY/AC 0.72 AC.
REQUIRED SEDIMENT STORAGE = 48.2 CY = 1302 CF
 PROVIDED SEDIMENT STORAGE = 27.5 CY = 743 CF
 3. SEDIMENT CLEANOUT DEPTH (MINIMUM OF 1.5 FT.) = 1.5 FT
 4. SLOPES = 3:1
 5. SEDIMENT STORAGE (SF) PER LINEAR FOOT OF SILT FENCE
 $SF = \frac{1}{2} B H = \frac{1}{2} 4.5' \times 1.5 = 3.375 SF \text{ per LF}$
 6. SILT FENCE PROVIDED FOR USE AS STORAGE = 220.0 LF
 1. STORAGE VOLUME = 743 CF = 27.5 CY

EXCAVATED INLET BASIN #1-B
 1. DRAINAGE AREA = 1.31 AC.
 2. REQUIRED SEDIMENT STORAGE = 6 CY/AC DISTURBED AREA
 REQUIRED SEDIMENT STORAGE = 6 CY/AC 1.31 AC.
REQUIRED SEDIMENT STORAGE = 87.8 CY = 2370 CF
 PROVIDED SEDIMENT STORAGE = 51.5 CY = 1391 CF
 3. ASSUME EXCAVATION DEPTH (MINIMUM OF 1.5 FT.) = 3 FT
 4. ASSUME SLOPE OF SIDES (SHALL NOT BE STEEPER THAN 2:1) = 2:1
 5. DETERMINE REQUIRED SURFACE AREA
 $S_{Amin} = \text{REQUIRED SEDIMENT STORAGE} / \text{EXCAVATION DEPTH}$
 $S_{Amin} = 1391 \text{ CY} / 3 \text{ FT}$
 $S_{Amin} = 464 \text{ SF}$
 6. ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS.
 (A RECTANGULAR SHAPE WITH 3:1 LENGTH TO WIDTH RATIO IS RECOMMENDED.)
SHAPE: RECTANGLE
DIMENSIONS: L = 50 FT W = 17 FT

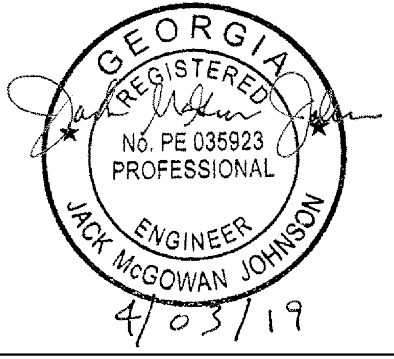
SILT FENCE SEDIMENT BASIN #1-C
 1. DRAINAGE AREA = 1.31 AC.
 2. REQUIRED SEDIMENT STORAGE = 6 CY/AC DISTURBED AREA
 REQUIRED SEDIMENT STORAGE = 6 CY/AC 1.31 AC.
REQUIRED SEDIMENT STORAGE = 87.8 CY = 2370 CF
 PROVIDED SEDIMENT STORAGE = 18.75 CY = 506 CF
 3. SEDIMENT CLEANOUT DEPTH (MINIMUM OF 1.5 FT.) = 1.5 FT
 4. SLOPES = 3:1
 5. SEDIMENT STORAGE (SF) PER LINEAR FOOT OF SILT FENCE
 $SF = \frac{1}{2} B H = \frac{1}{2} 4.5' \times 1.5 = 3.375 SF \text{ per LF}$
 6. SILT FENCE PROVIDED FOR USE AS STORAGE = 150.0 LF
 1. STORAGE VOLUME = 506 CF = 18.75 CY



SIGNATURE OF ENGINEER: *Jack McGowan Johnson*
 DATE: 4/03/19
 CERTIFICATION: 00000608027
 EXPIRATION: 2019-03-24



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Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE: _____

PROJECT NUMBER: **INTERMEDIATE EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN C-4.4**

3/06/2019 1:05:38 PM SHEET NAME: FINAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN SHEET NUMBER: C-4.5 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION & COUNTY SENIOR CENTER EXPANSION ENAME: F:\121020 Dawson Senior Center - Dawson County, GA\DWSC-C4.5 ESPC Final Plan.dwg

SOIL TYPE	
FaE	FANNIN FINE SANDY LOAM, 10 TO 25 PERCENT SLOPE
HIE	HAYESVILLE SANDY LOAM, 10 TO 25 PERCENT SLOPES

EROSION NOTES:

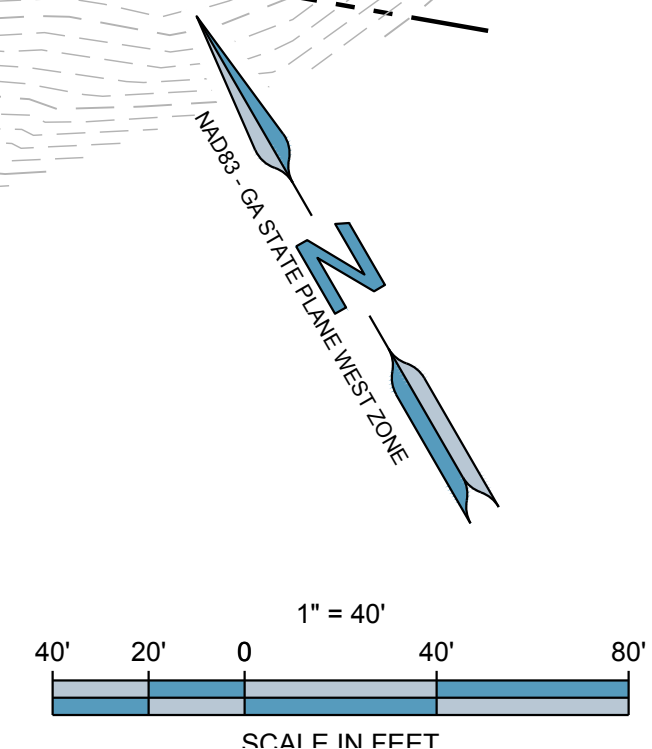
1. THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.
 2. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
 3. EROSION 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.
 4. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, ALL LAND DISTURBING ACTIVITIES THROUGHOUT THE ENTIRE PROJECT.
 5. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE ACCUMULATED SILT IS ONE-THIRD (1/3) FULL FOR ALL EROSION & SEDIMENT CONTROL STRUCTURES.
 6. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.
- SEE ADDITIONAL EROSION CONTROL NOTES ON SHEETS C-4 THROUGH C-4.2



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Jack McGowan Johnson
 SIGNATURE OF ENGINEER
 00000608027
 CERTIFICATION

4/03/19
 DATE
 2019-03-24
 EXPIRATION



DESIGNING ARCHITECT

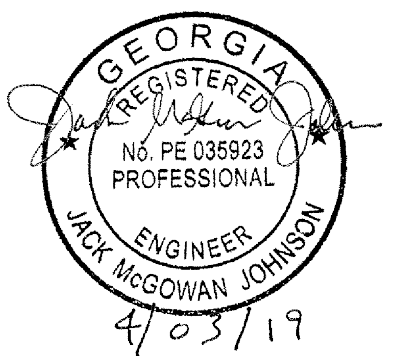
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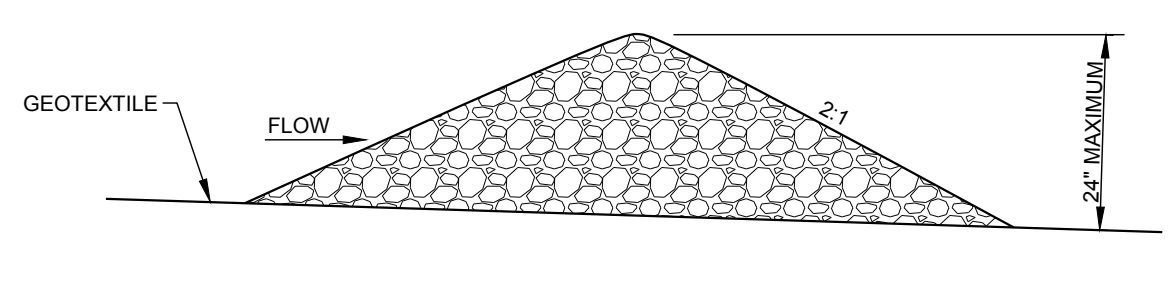
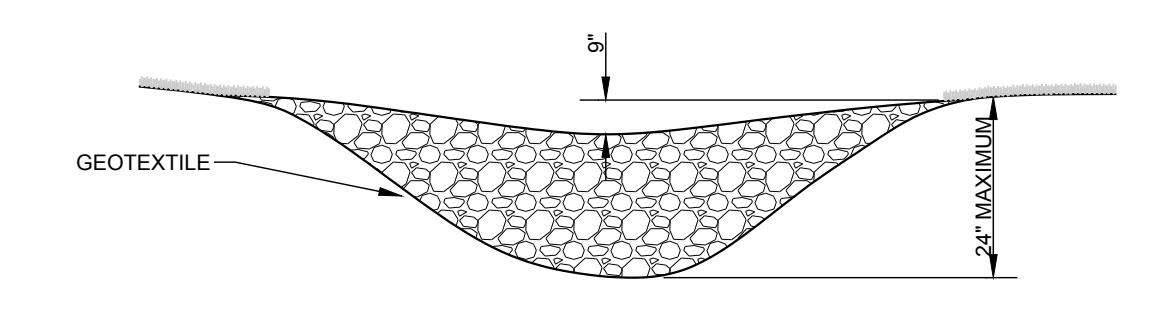
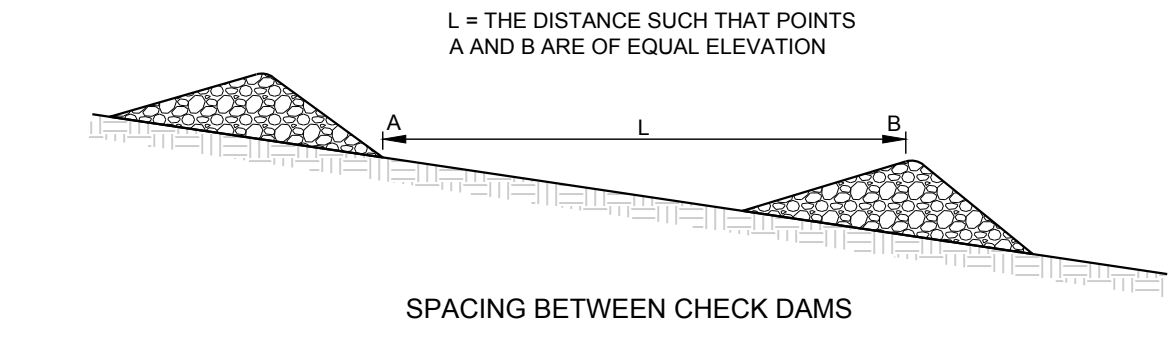
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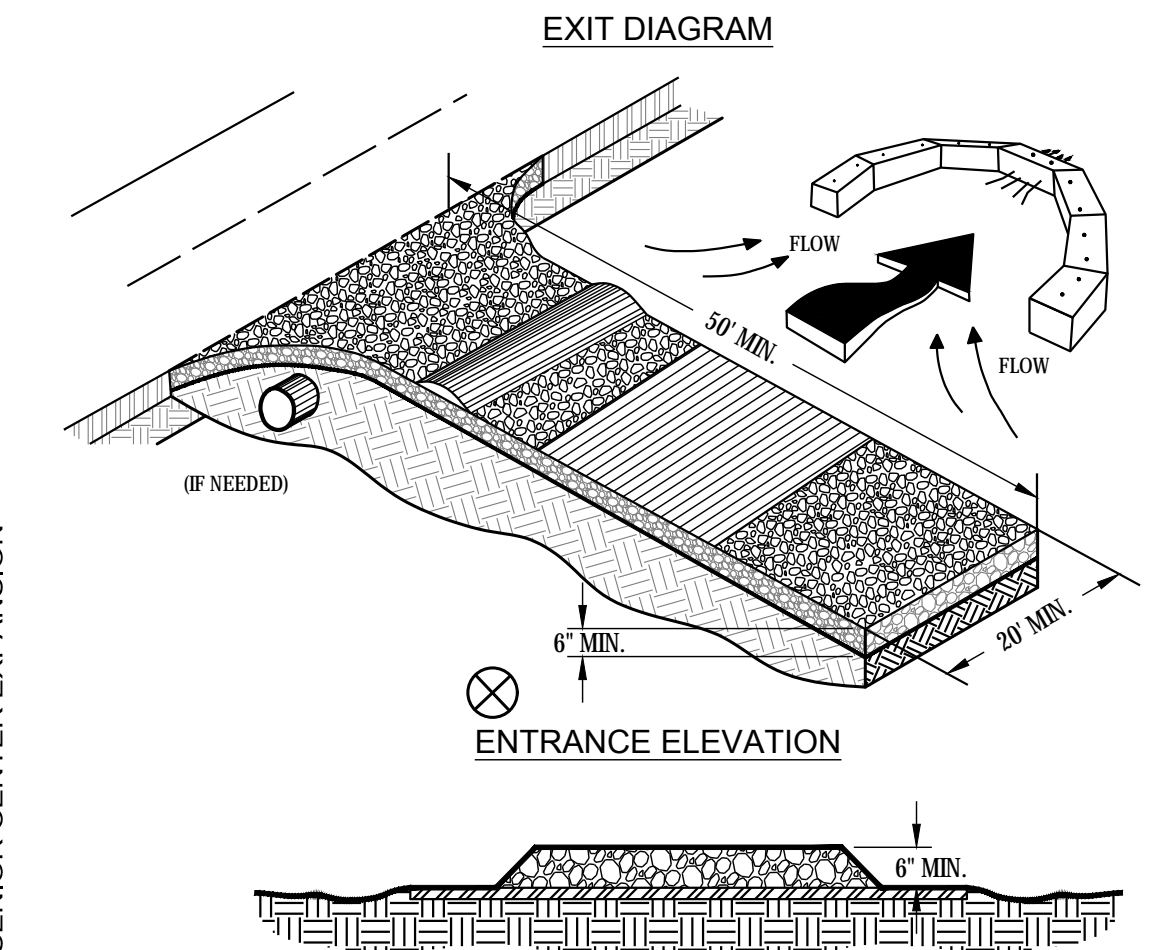
DATE
PROJECT NUMBER

FINAL EROSION, SEDIMENTATION, & POLLUTION CONTROL PLAN

SHEET NUMBER
C-4.5

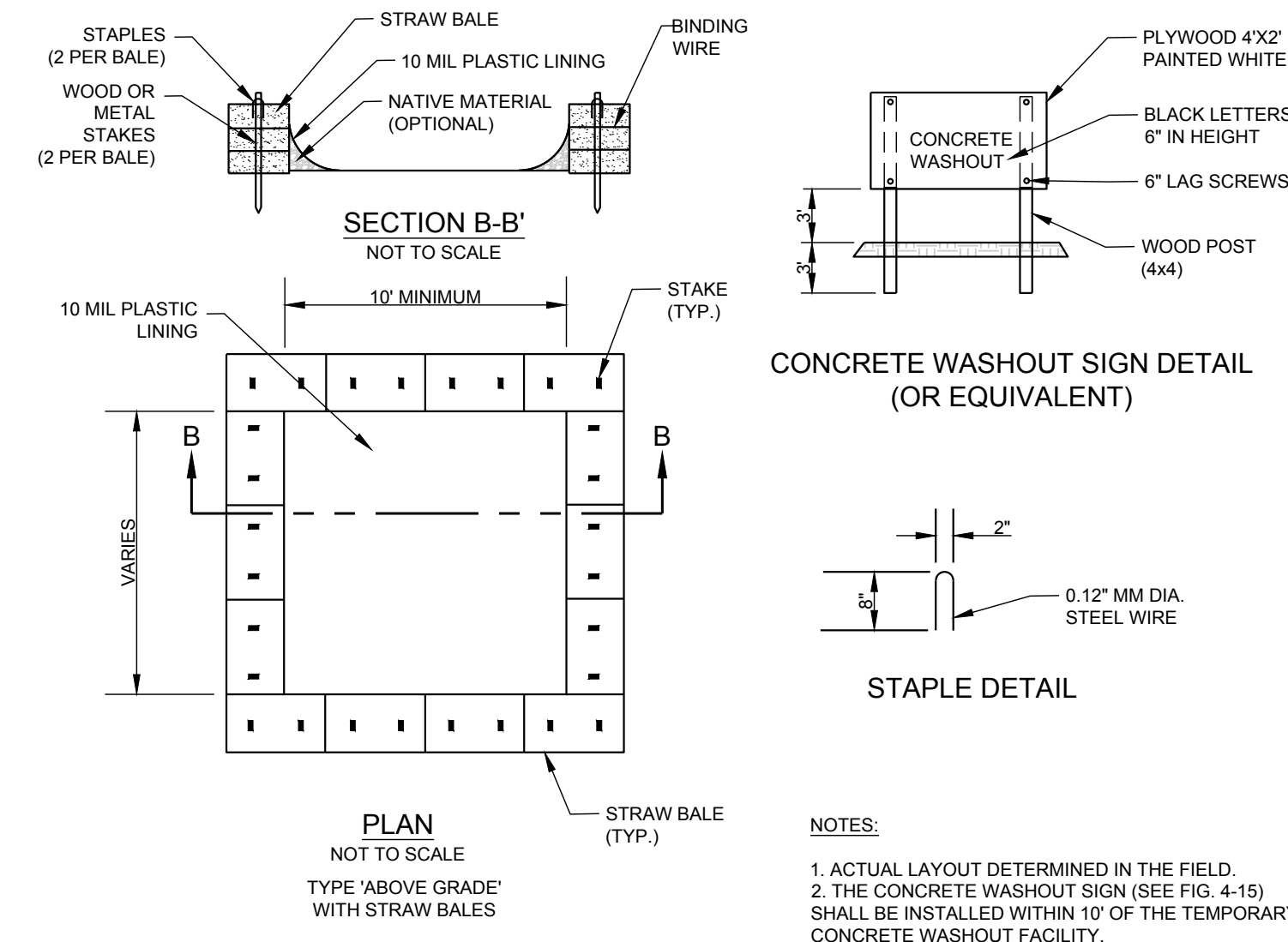


Cd-S STONE CHECK DAM
NOT TO SCALE

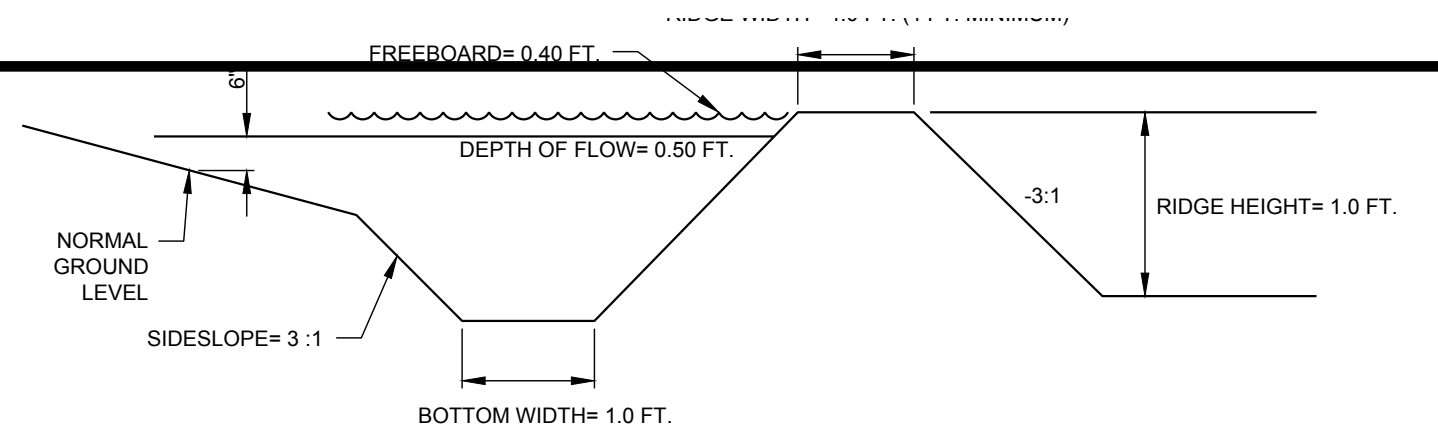


- NOTES:**
- AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 - REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 - AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5" - 3.5" STONE).
 - GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 - PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20".
 - A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 - INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 - 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).
 - WASHRACKS AND/OR THE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGNS MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 - 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

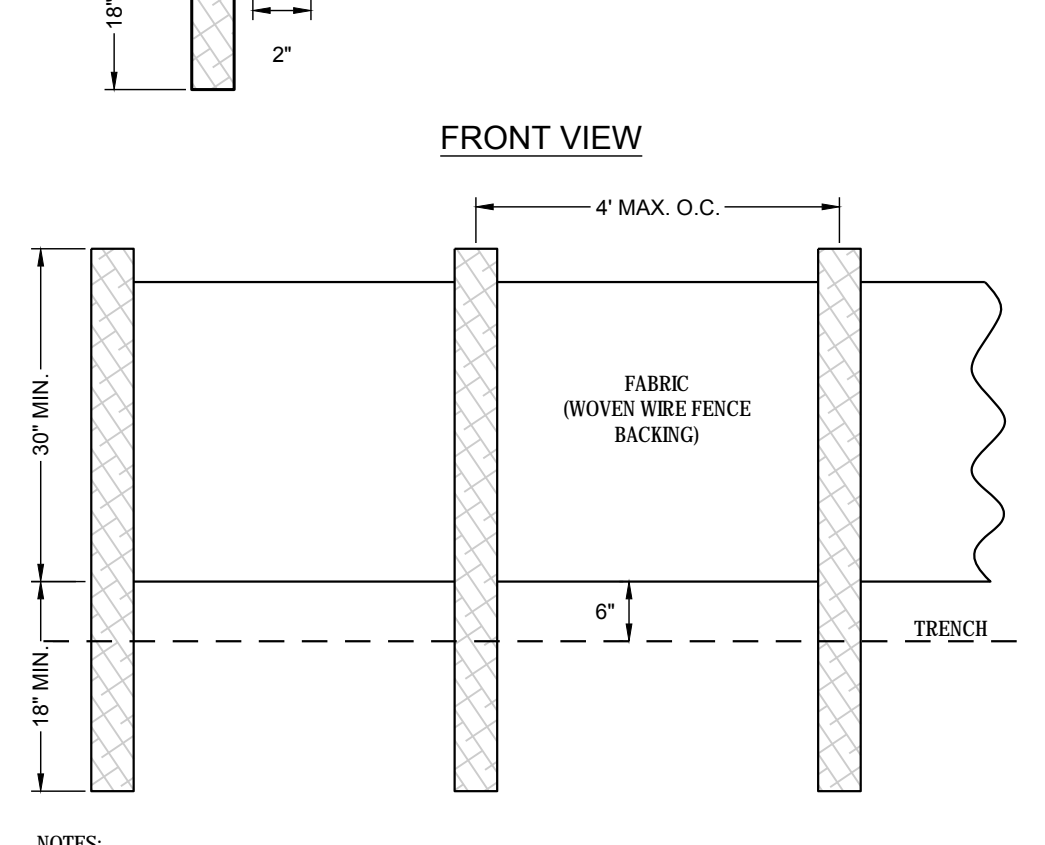
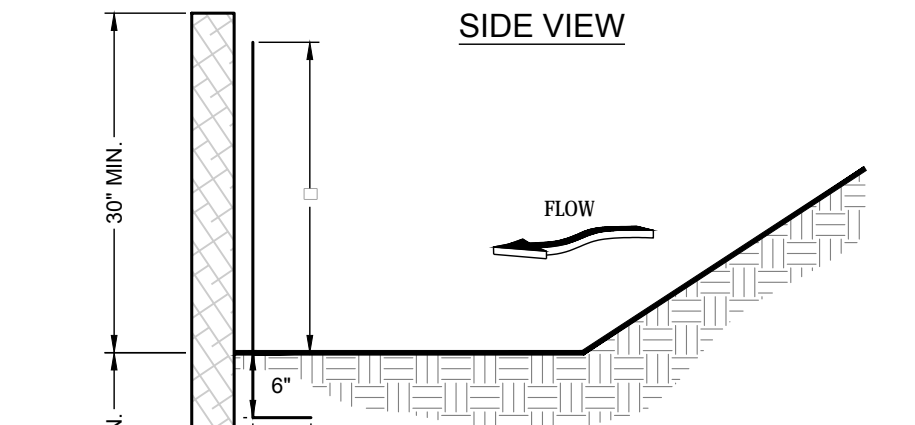


Cw CONCRETE WASHOUT
NOT TO SCALE

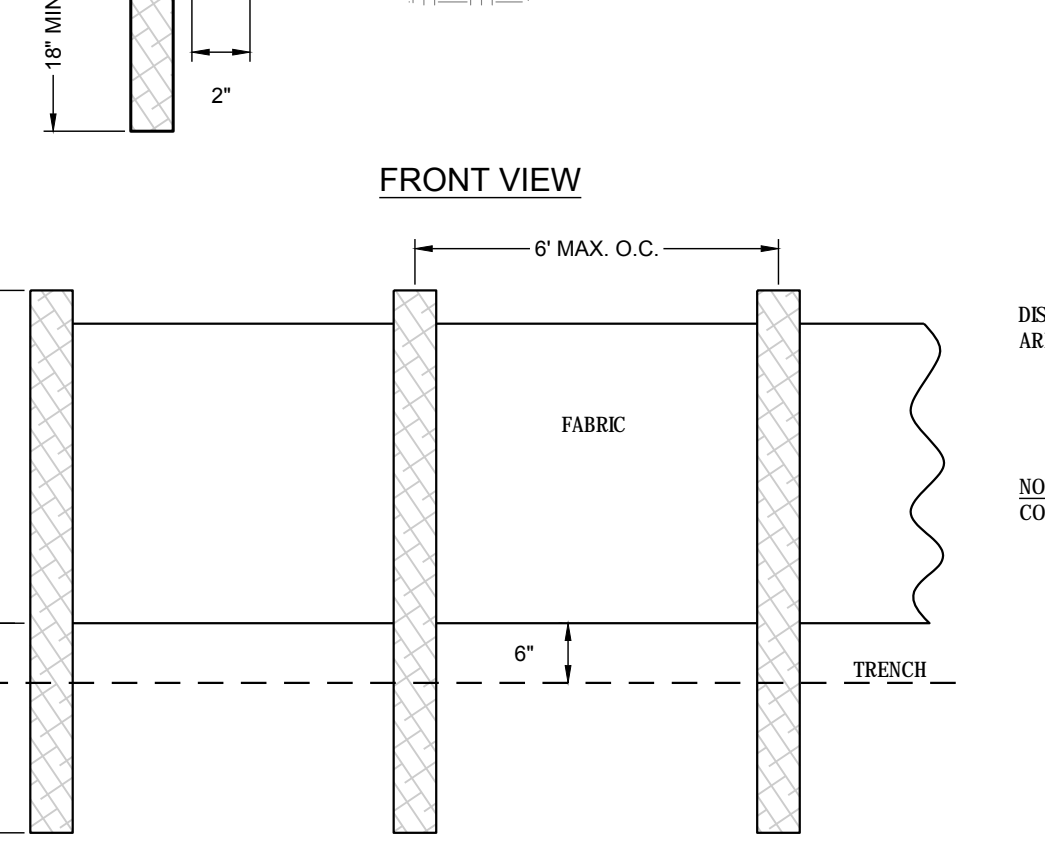
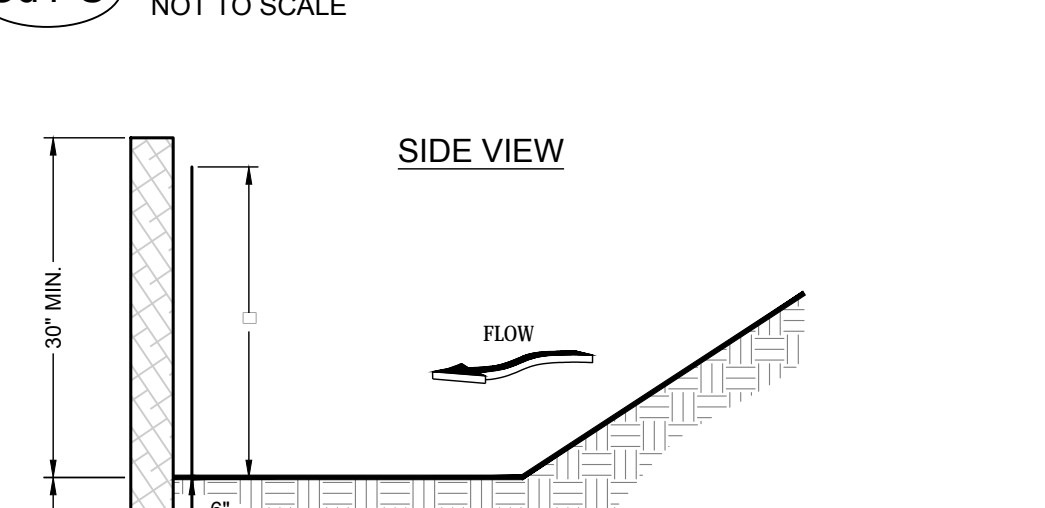


- NOTES:**
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.
 - THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
 - ALL FILLS SHALL BE MACHINE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED DIVERSION.
 - ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIVERSION.
 - DIVERSION CHANNEL SHALL BE STABILIZED IN ACCORDANCE WITH SPECIFICATION CH - CHANNEL STABILIZATION.

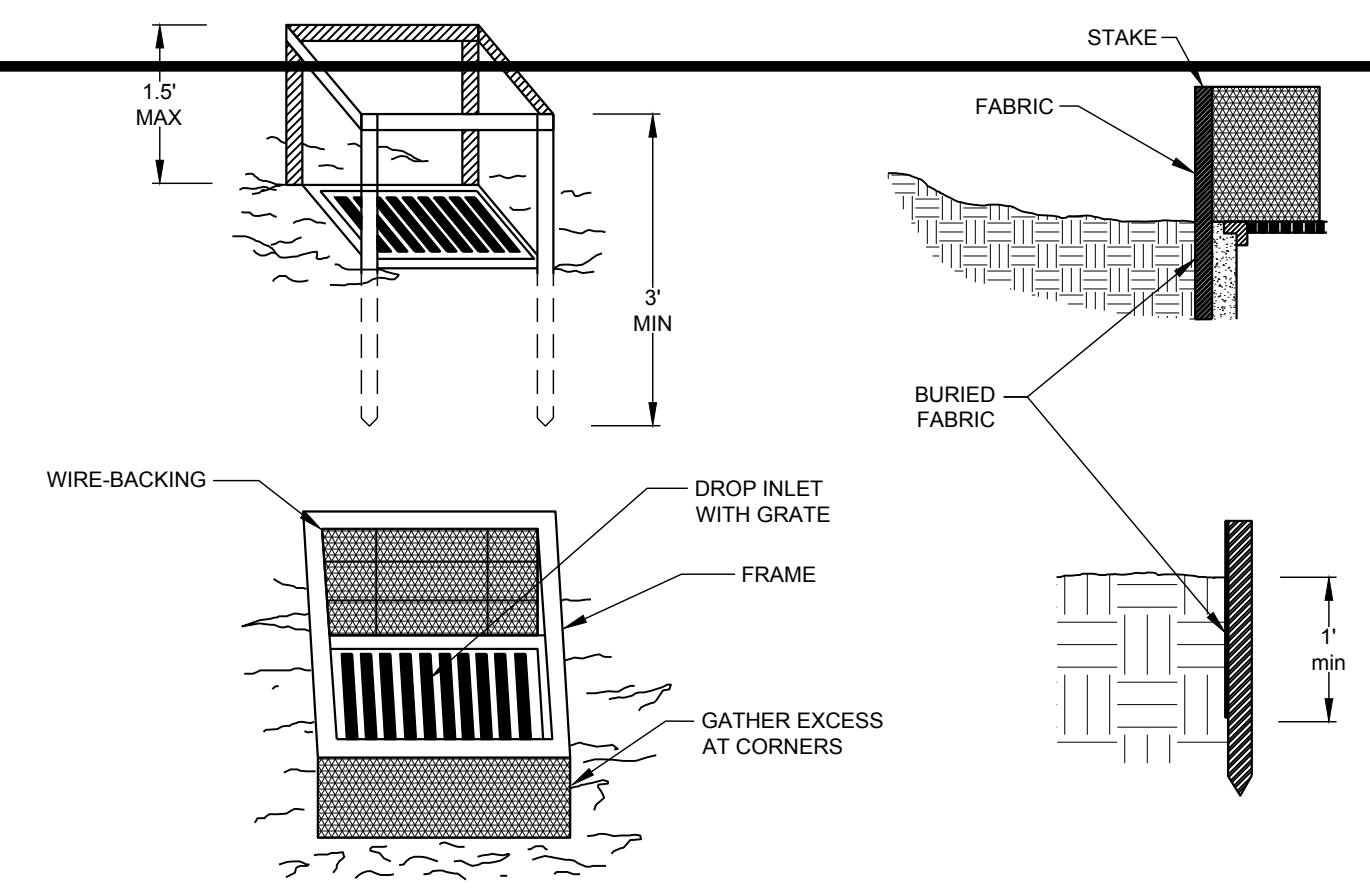
Di DIVERSION
NOT TO SCALE



Sd1-S SILT FENCE -TYPE SENSITIVE
NOT TO SCALE

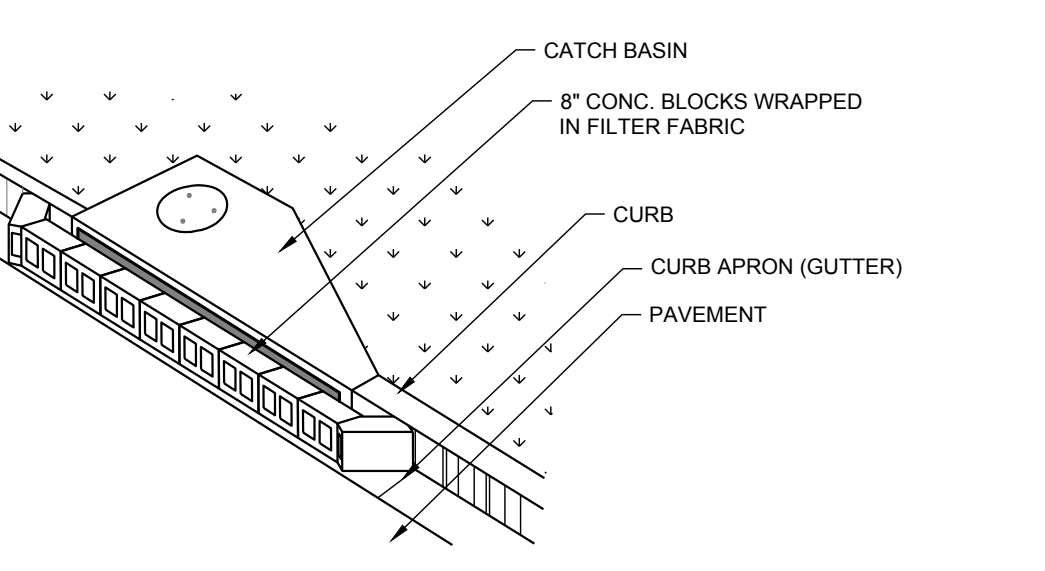
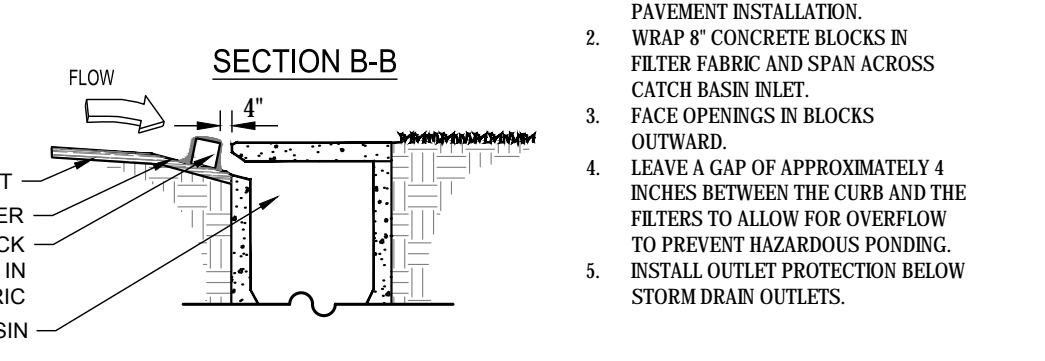
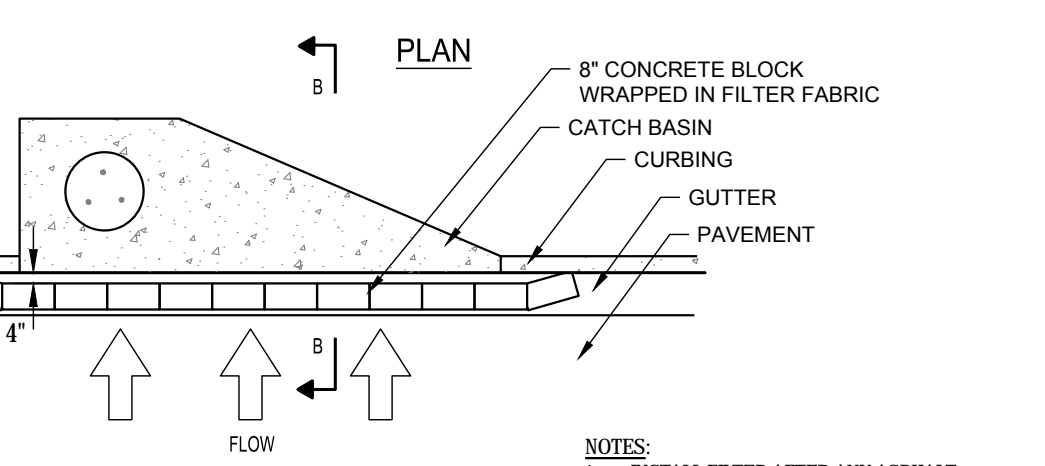


Sd1-NS SILT FENCE -TYPE NONSENSITIVE
NOT TO SCALE

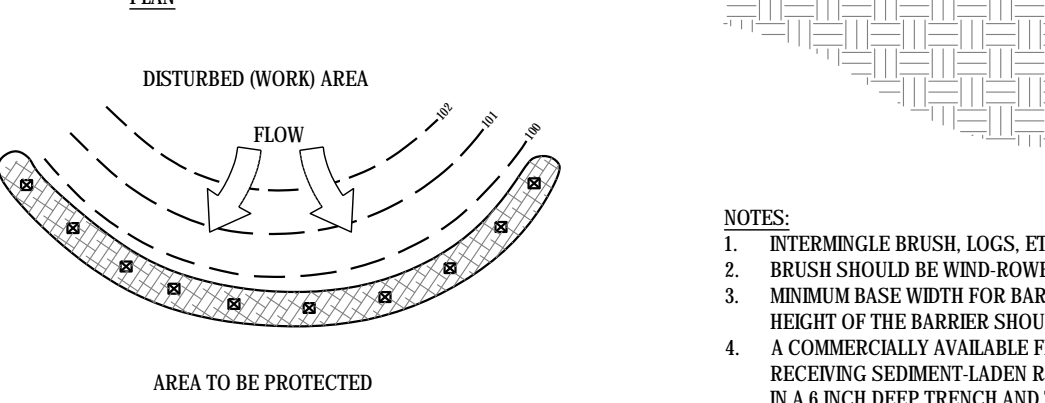


- NOTES:**
- FOR STAKES, USE STEEL WITH A MINIMUM LENGTH OF 3 FEET.
 - SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART, AND SECURELY DRIVE THEM INTO THE GROUND, MINIMUM OF 18 INCHES DEEP.
 - TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2 X 4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT A MAXIMUM OF 1.5 FEET ABOVE THE DROP INLET CREST.
 - PLACE THE BOTTOM 12 INCHES OF THE FABRIC IN A TRENCH AND BACKFILL THE TRENCH WITH CRUSHED STONE OF COMPACTED SOIL.
 - FASTEN FABRIC SECURELY TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
 - 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

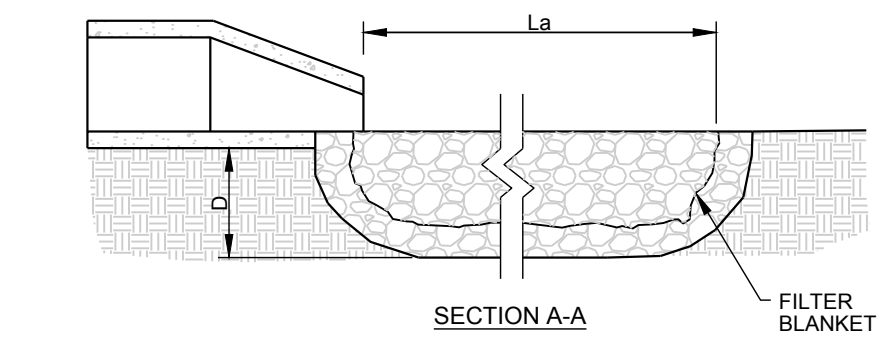
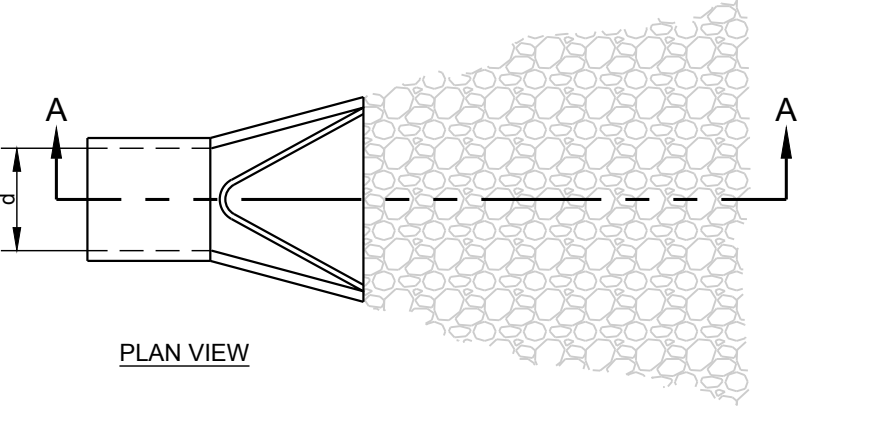


Sd2-P CURB INLET FILTER "PIGS IN BLANKET"
NOT TO SCALE



Sd1-Fs COMPOST FILTER SOCK
NOT TO SCALE

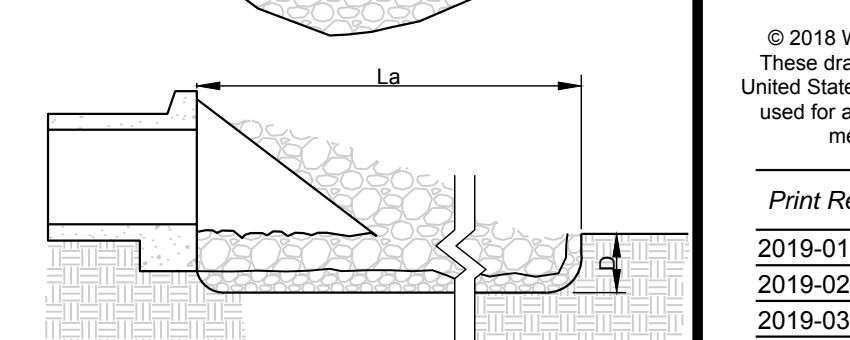
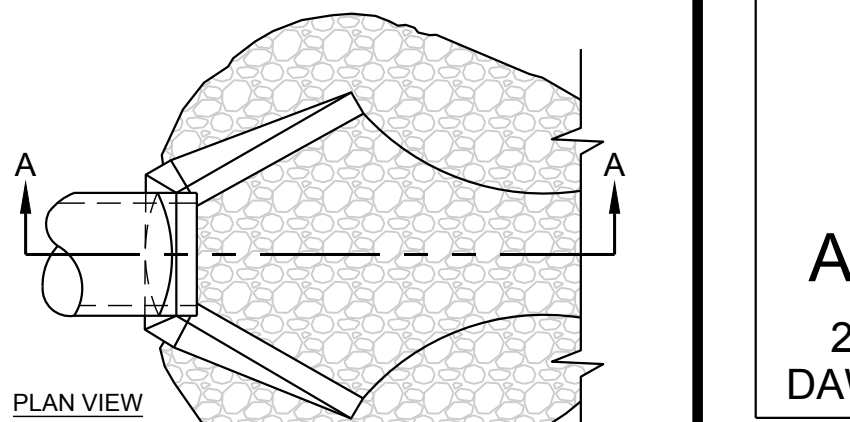
PIPE OUTLET TO FLAT AREA - NO WELL-DEFINED CHANNEL



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

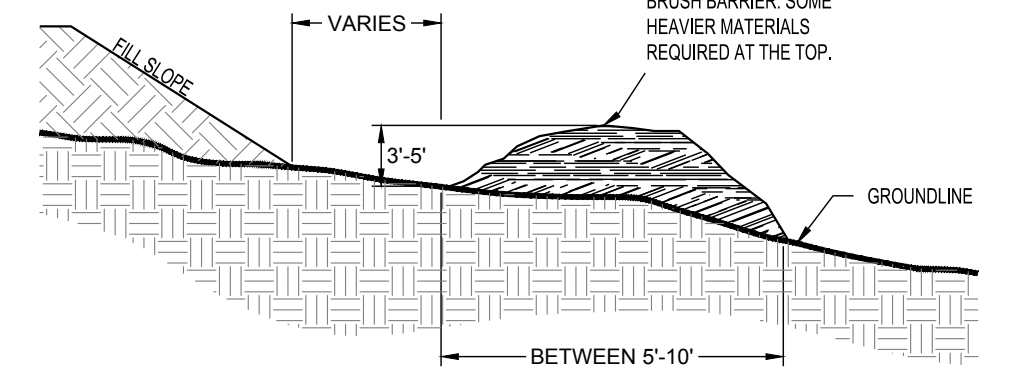
St STORM OUTLET PROTECTION
NOT TO SCALE

PIPE OUTLET TO WELL-DEFINED CHANNEL



- NOTES:**
- La IS THE LENGTH OF THE RIPRAP APRON.
 - D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
 - IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE TOP OF PIPE OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
 - A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
 - GRADED RIPRAP STONE (MIN. 50 LB. STONE) NSA, NO. R-4 - 12" mix. 6" and 6"
 - FILTER STONE NO. FS-2

Headwall ID	Pipe Diameter, DO (in)	25-year Velocity, Q (cfs)	25-year Velocity (ft/sec)	Rip-Rap Size d50	Apron width (ft)	Apron Length, La (ft)	Apron Width, W (ft)
100	30	18.3	3.7	0.60	7.5	16	18.5
200	30	16.7	3.4	0.60	7.5	12	14.5
500	18	1.5	0.8	0.10	4.5	6	7.5
Exc Culvert	15	2.2	1.8	0.10	3.75	6	7.25

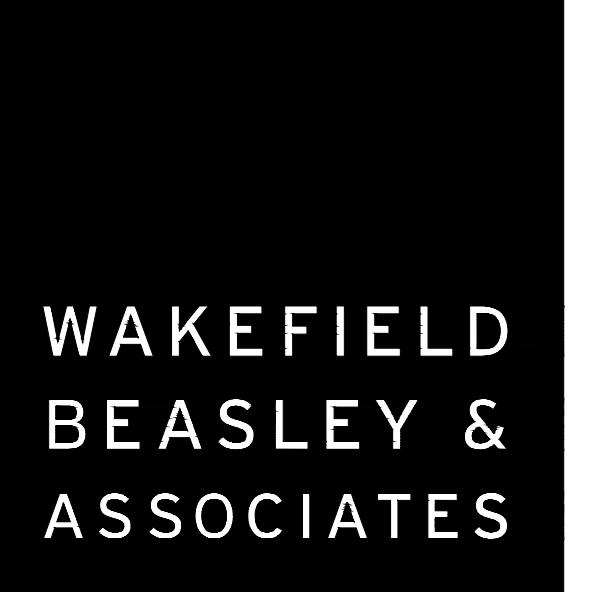


- NOTES:**
- INTERMINGLE BRUSH, LOGS, ETC. SO AS TO NOT FORM A SOLID DAM.
 - BRUSH SHOULD BE WIND-BLOWN ON THE CONTOUR AS CLOSE AS POSSIBLE.
 - MINIMUM BASE WIDTH FOR BARRIER SHALL BE 5 FEET AND SHOULD BE NO WIDER THAN 10 FEET. THE HEIGHT OF THE BARRIER SHOULD BE BETWEEN 3' AND 5'.
 - A COMMERCIALY AVAILABLE FILTER FABRIC MAY BE PLACED ON THE SIDE OF THE BRUSH BARRIER RECEIVING SEDIMENT-LADEN RUNOFF FOR ADDED FILTER CAPACITY (LOWER EDGE MUST BE BURIED IN A 6 INCH DEEP TRENCH AND THE UPPER EDGE MUST BE FASTENED TO THE BRUSH BARRIER).

Sd1-Bb BRUSH BARRIER
NOT TO SCALE



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2019-05-16 ADDENDUM 2

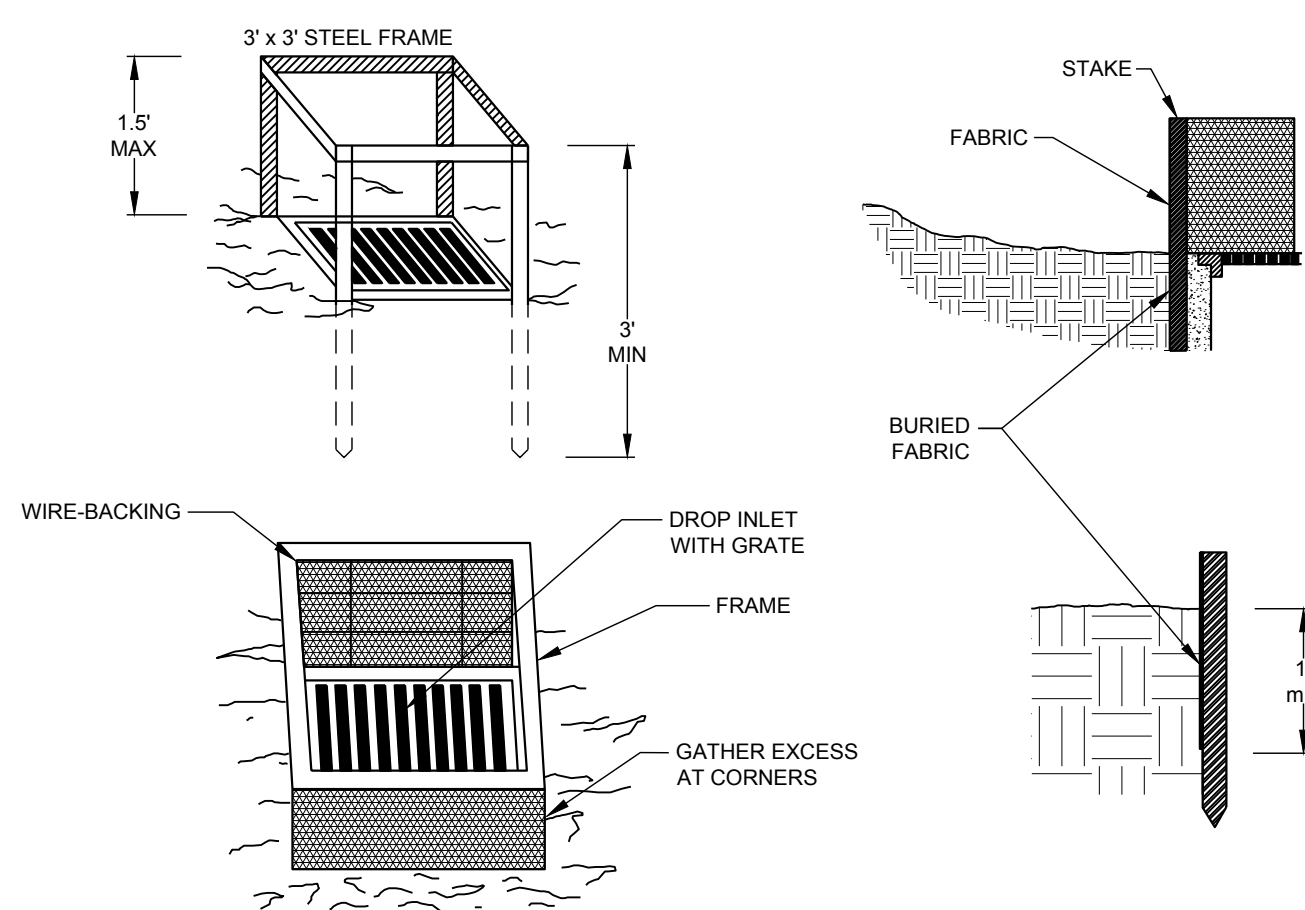
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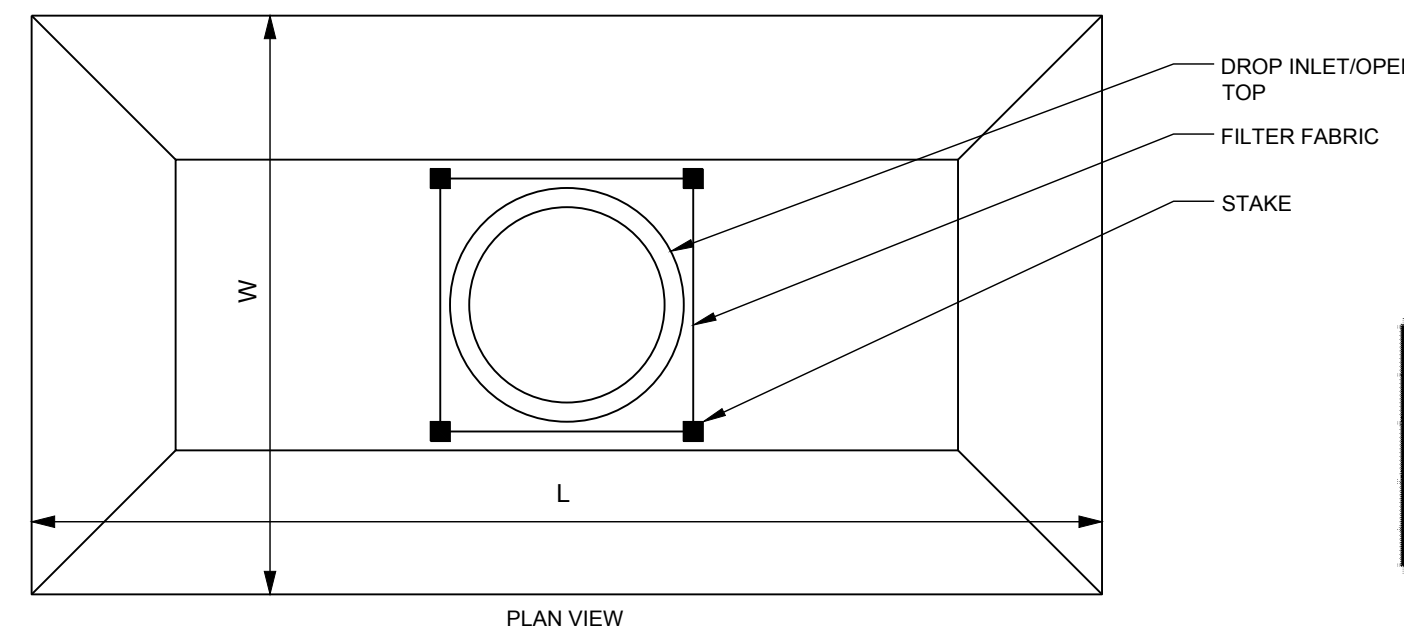
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EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS
SHEET NUMBER

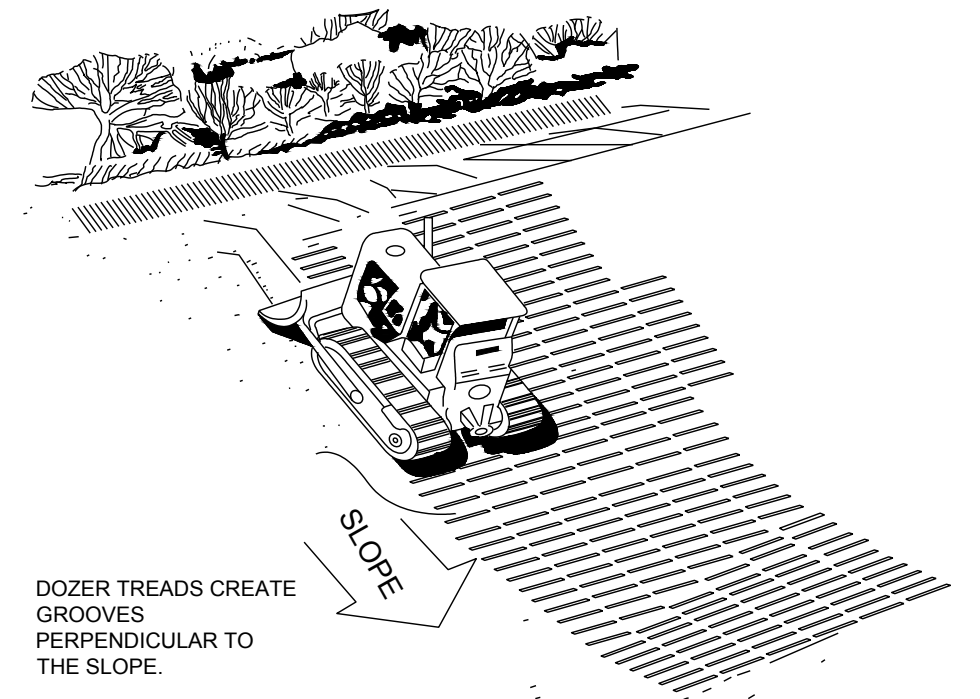


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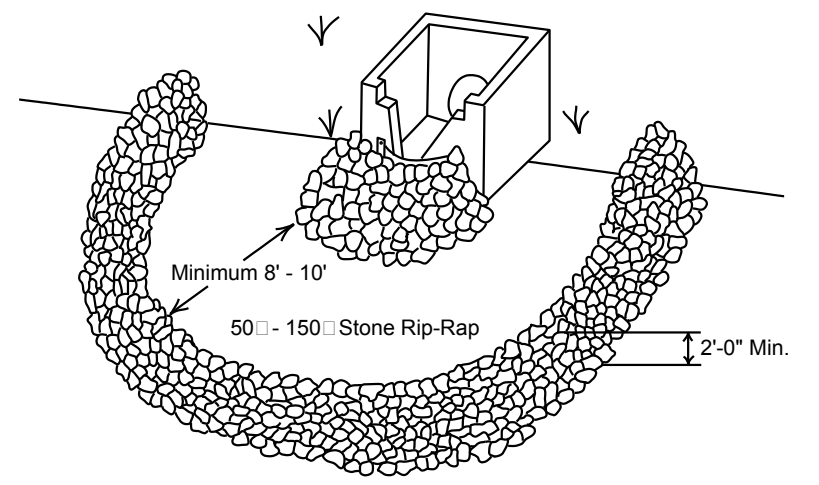
Sd2-F INLET SEDIMENT TRAP - FILTER FABRIC WITH SUPPORTING FRAME
 NOT TO SCALE



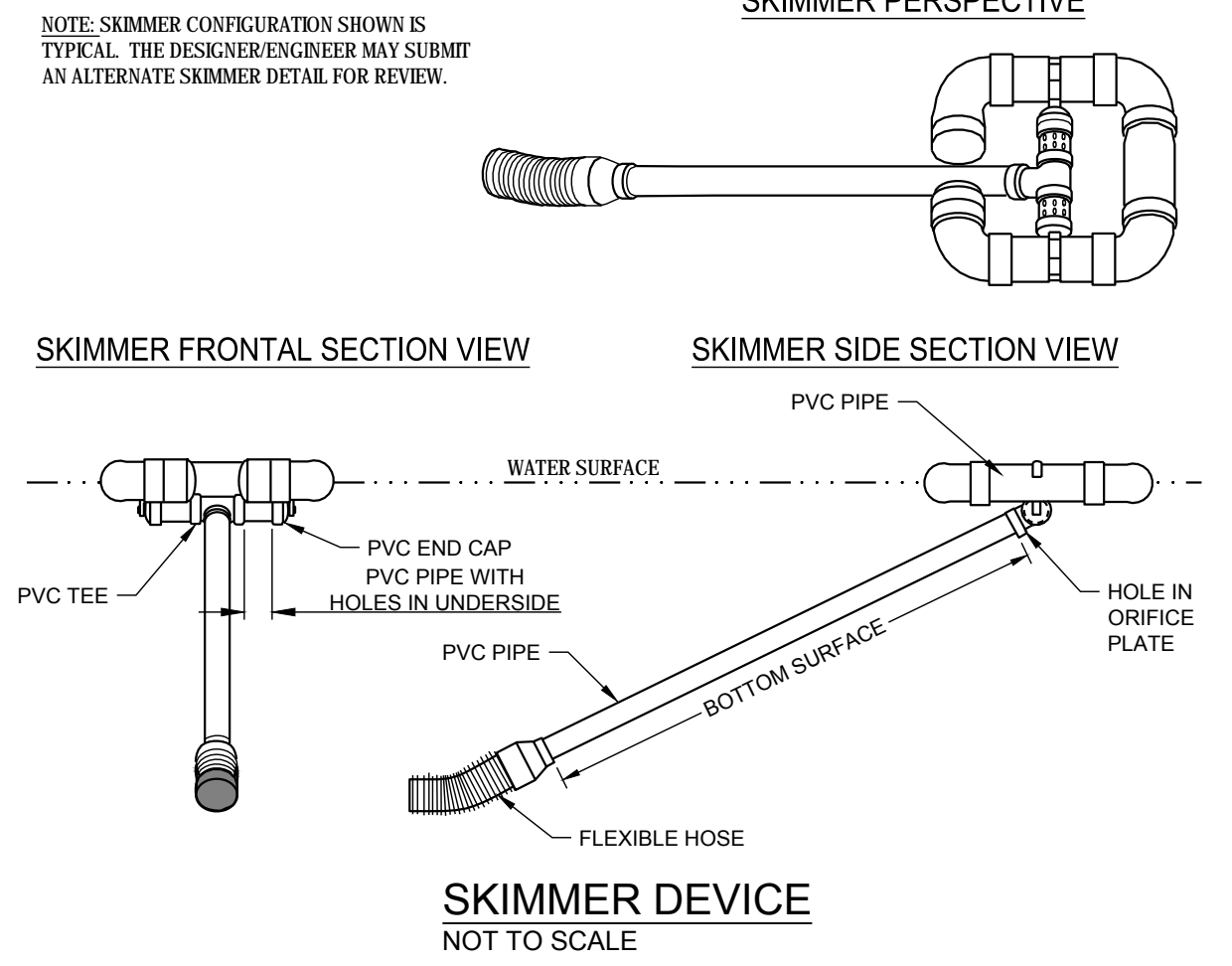
Sd2-E EXCAVATED INLET SEDIMENT TRAP
 NOT TO SCALE



Su SURFACE ROUGHENING - WITH TRACKING
 NOT TO SCALE



Fr FILTER RING
 NOT TO SCALE

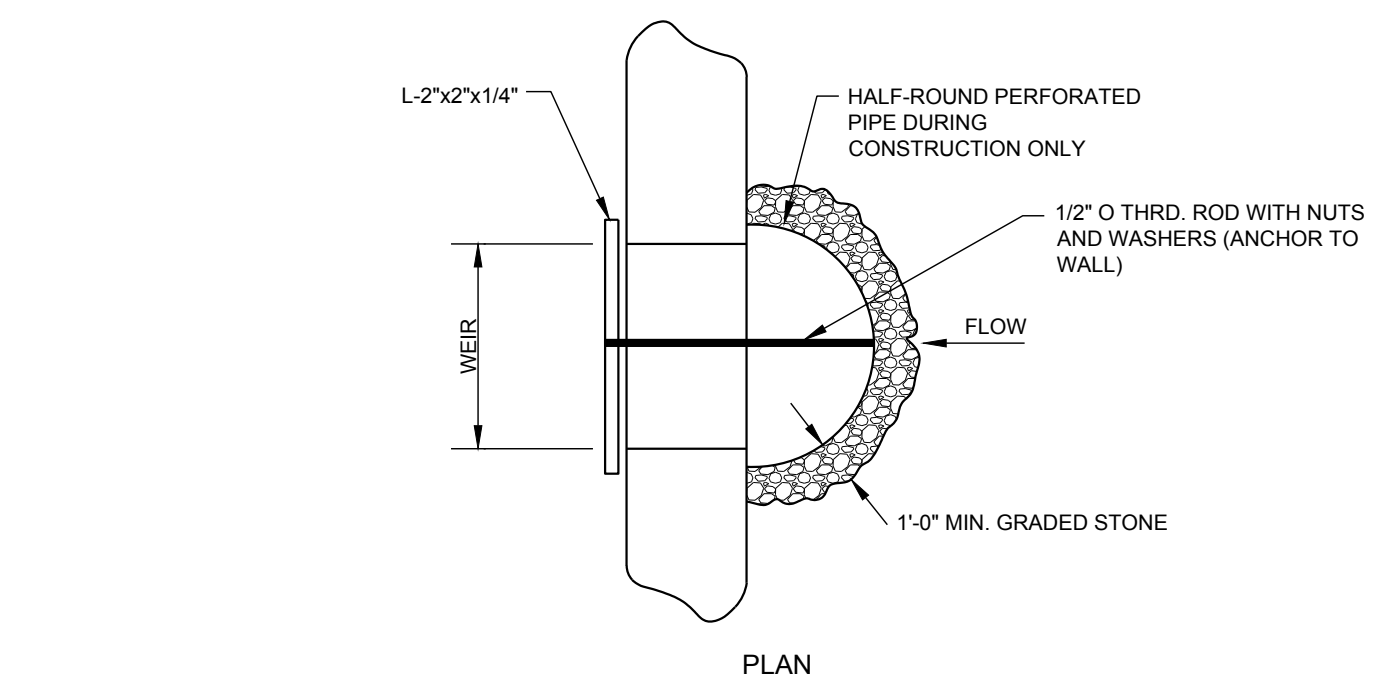
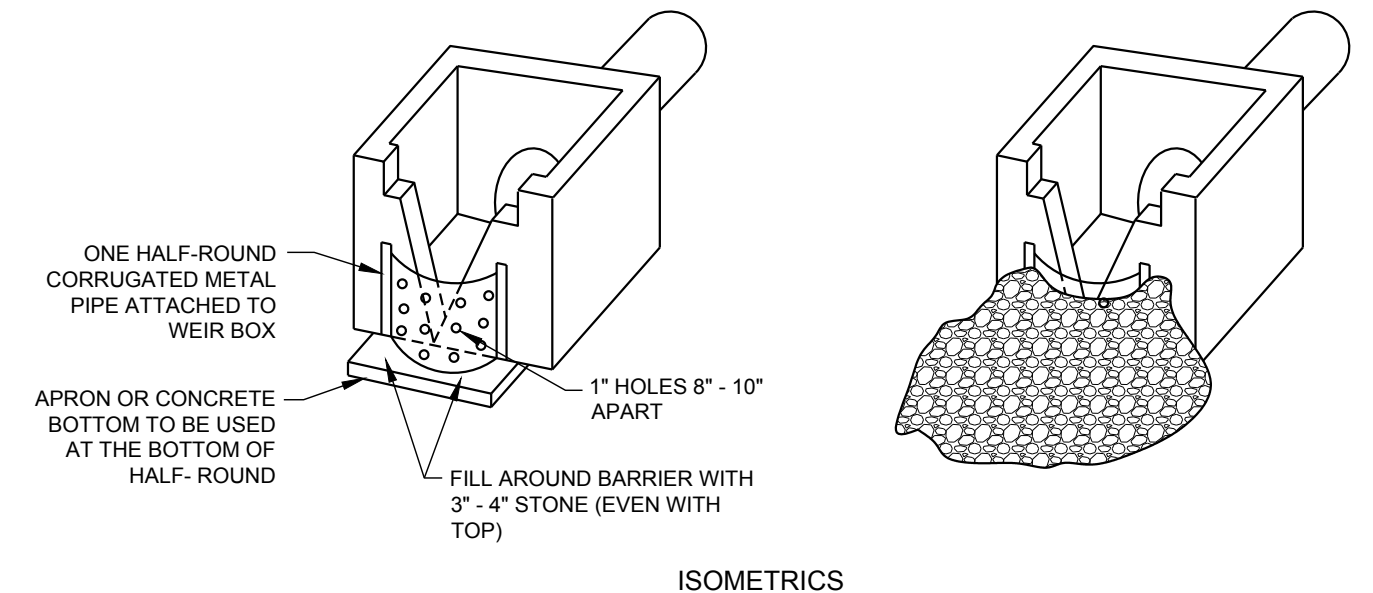


Calculate Skimmer Size

Basin Volume in Cubic Feet	227,835 Cu.Ft	Skimmer Size	8.0 Inch
Days to Drain*	3 Days	Orifice Radius	3.5 Inch[es]
		Orifice Diameter	7.0 Inch[es]

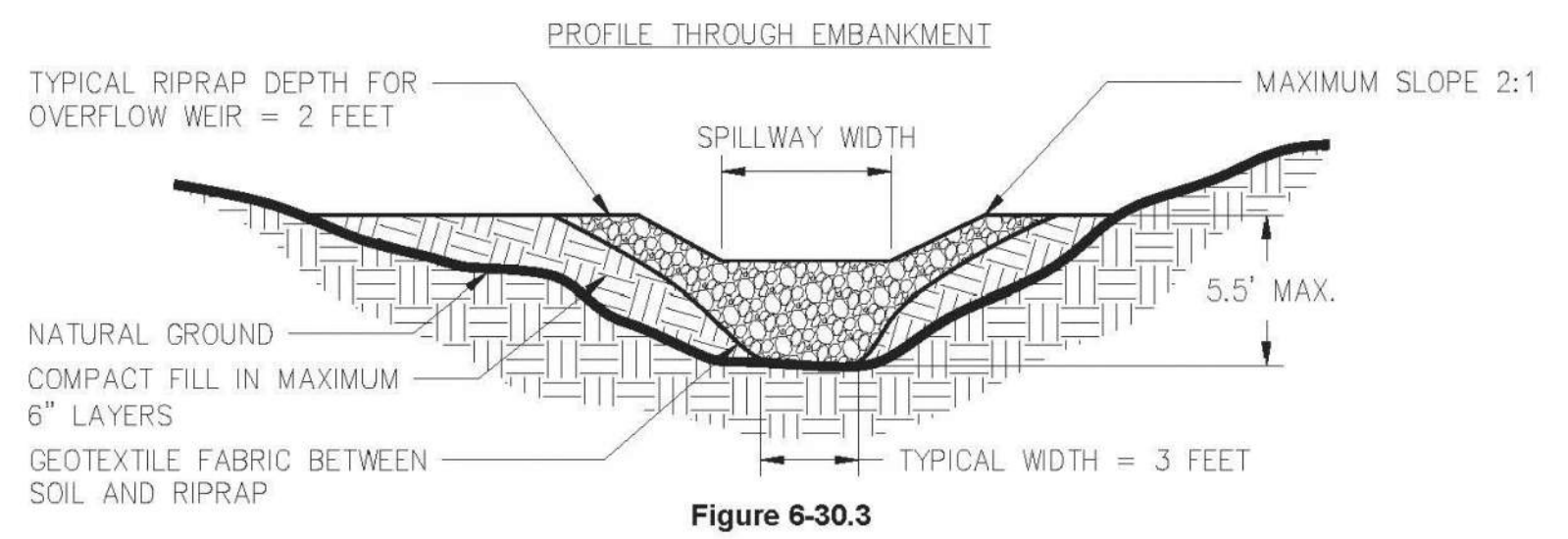
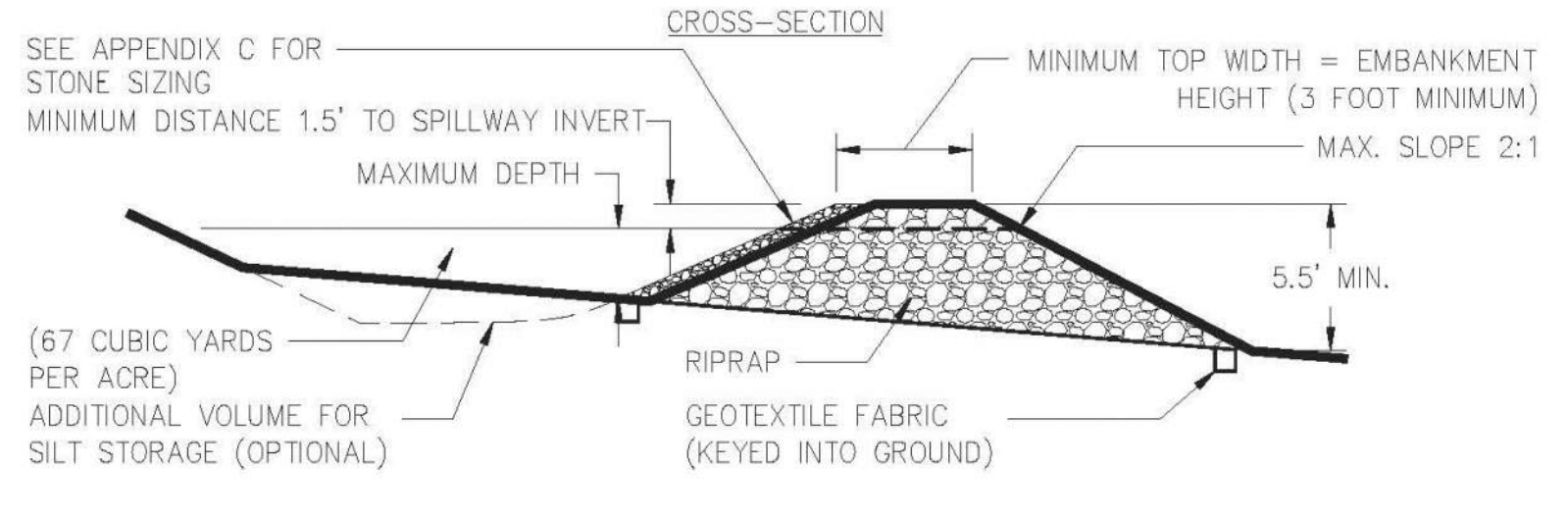
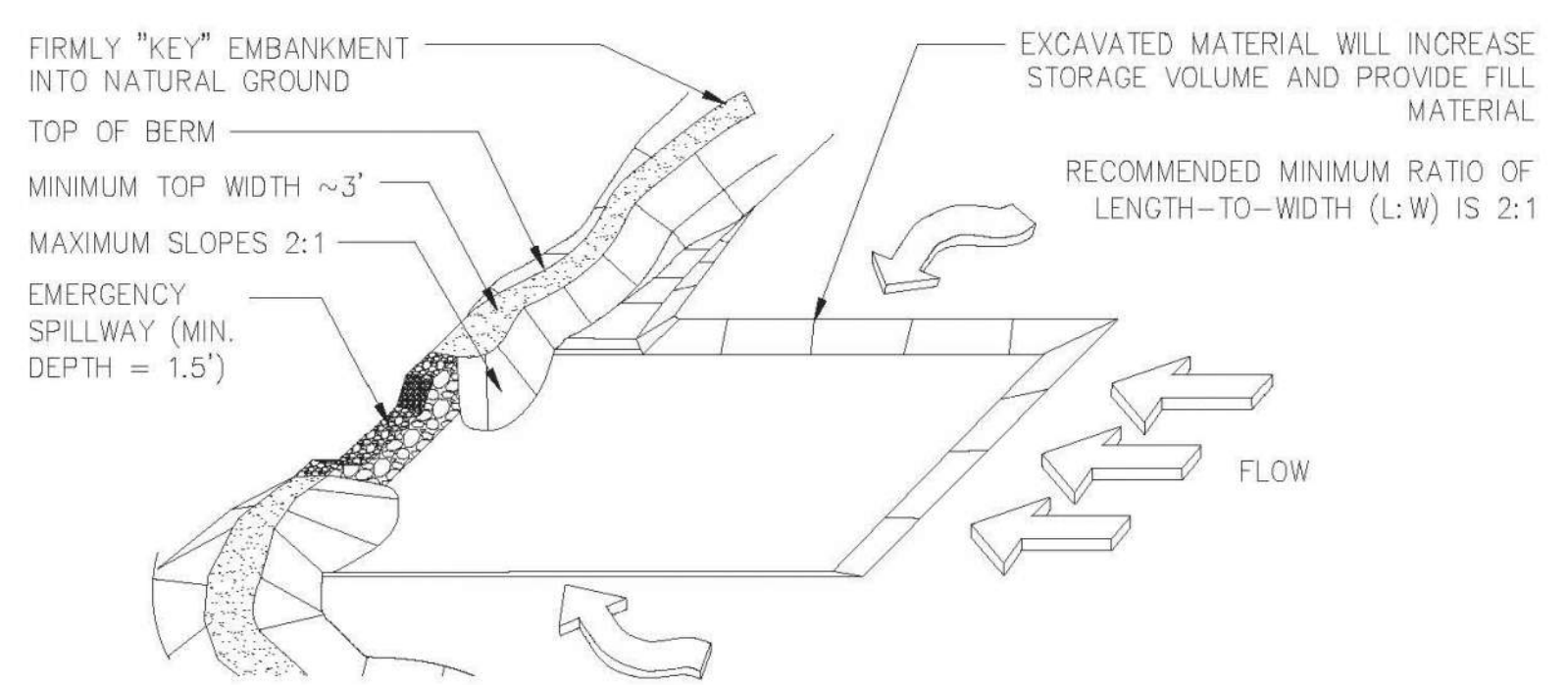
*In NC assume 3 days to drain

Sk SKIMMER DEVICE
 NOT TO SCALE



Rt-P RETROFITTING PERFORATED HALF-ROUND PIPE WITH STONE FILTER
 NOT TO SCALE

TEMPORARY SEDIMENT TRAP
 COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT ROCK OUTLET



6-189

GSWCC 2016 Edition

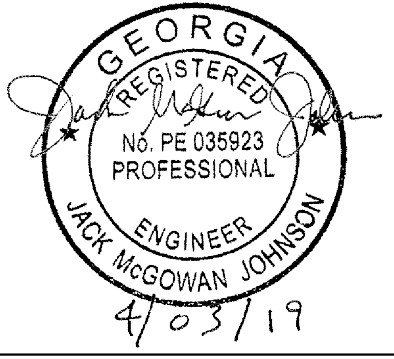
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SHEET NUMBER
C-4.7



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.

MULCH MATERIALS AND APPLICATION RATES table with columns for MATERIAL, RATE, and descriptions for straw, wood waste, matting, etc.

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

- GRADING AND SHAPING 1. EXCESSIVE WATER RUNOFF SHALL BE REDUCED BY PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DYES, DIVERSIONS, AND OTHERS.

- SEEDBED PREPARATION 1. WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED.

LIME AND FERTILIZER

- 1. SOIL TESTS MUST BE PERFORMED DETERMINE THE REQUIRED AMOUNTS OF FERTILIZER, LIME, AND OTHER AMENDMENTS.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

Table with columns: SPECIES, SEEDING RATE PER 1,000 S.F., SEEDING RATE PER ACRE, PLANTING DATES (MTNS/LIMESTONE, PIEDMONT, COASTAL), and application notes.

- 1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES. 2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

PLANTING AND FERTILIZER SCHEDULE FOR PERMANENT GRASSING

Large table with columns: SPECIES, PURE LIVE SEED (PLS) PER 1,000 S.F., RATE PER ACRE, PLANTING DATES, YEARS TO APPLY FERTILIZER, FERTILIZER ANALYSIS (N, P, K), FERTILIZER RATE (lb/Ac), and N TOP DRESSING RATE.

- 1 - APPLY IN SPRING FOLLOWING SEEDING 2 - APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED 3 - APPLY IN 3 SPLIT APPLICATIONS

APPLICATION

- 1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMY BY HAND OR MECHANICAL EQUIPMENT.

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'.

SEEDING

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMY BY HAND, CYCLONE SEEDER, DRILL, CULTPACKER-SEEDER, OR HYDRAULIC SEEDER.

MULCHING

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. PROVIDED THERE IS LITTLE TO NO EROSION POTENTIAL.

IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION.

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.

LIME AND FERTILIZER RATES

- 1. AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE.

MULCHING

- 1. MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% TO 100% SOIL COVER.

APPLYING MULCH

STRAW OR HAY MULCH WILL BE SPREAD UNIFORMY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING.

PLANT SELECTION

- 1. PLANT AND LANDSCAPE SPECIES TO BE AS INDICATED ON THE TREE REPLACEMENT PLAN AND LANDSCAPE PLAN.

SEEDBED PREPARATION

SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED.

BROADCAST PLANTINGS

- 1. TILLAGE, AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES.

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.

PLANTING

HYDRAULIC SEEDING

MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER.

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 DISTRIBUTOR.

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.

MULCHING

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% TO 100% SOIL COVER.

APPLYING MULCH

WOOD CELLULOSE OR WOOD PULP FIBER MULCH SHALL BE APPLIED UNIFORMY 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.

SEEDING

- 1. TILLAGE, AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES.

BEDDING MATERIAL

MULCH SHALL BE APPLIED TO ORNAMENTAL BEDS, AROUND SHRUBS, AND ON BARE AREAS ON LAWNS.

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.

MULCH REQUIREMENTS FOR PERMANENT STABILIZATION table with columns: MATERIAL, RATE, WHERE TO USE.

Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)

SOIL PREPARATION

- 1. BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODEN DEBRIS, STONES AND CLODS LARGER THAN 1".

LIME AND FERTILIZER RATES

- 1. FERTILIZE AT RATES SHOWN IN THE 'FERTILIZER RATES FOR SOD' TABLE ON THIS SHEET.

INSTALLATION

- 1. LAY SOD WITH HIGH JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD.

FERTILIZER REQUIREMENTS FOR SOD table with columns: SPECIES VARIETY, RESOURCE AREAS, MAINT. YEAR, FERTILIZER (N-P-K), RATE (LB/AC), NITROGEN TOP DRESSING (LB/AC).

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 0.880 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.'

SITE PREPARATION

- 1. 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.

MAINTENANCE

ALL EROSION CONTROL BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING.

Du DUST CONTROL ON DISTURBED AREAS

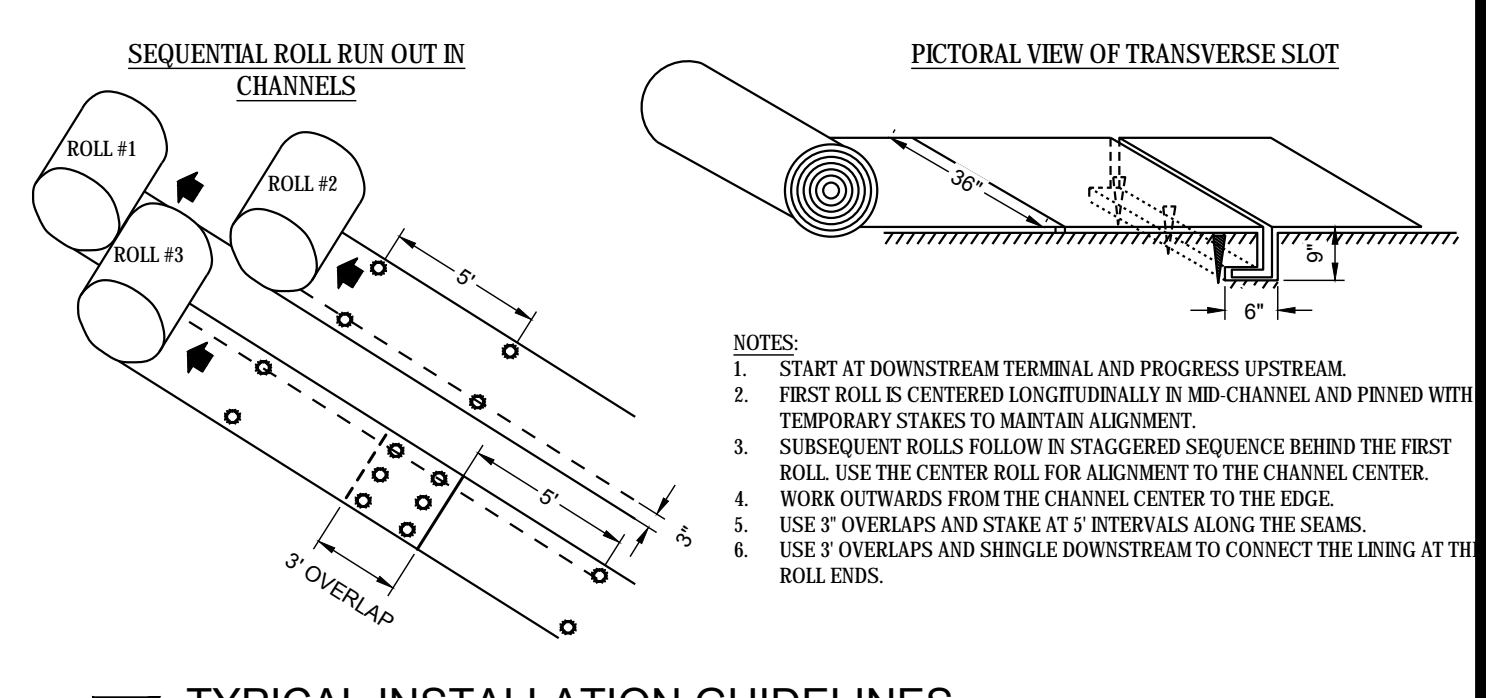
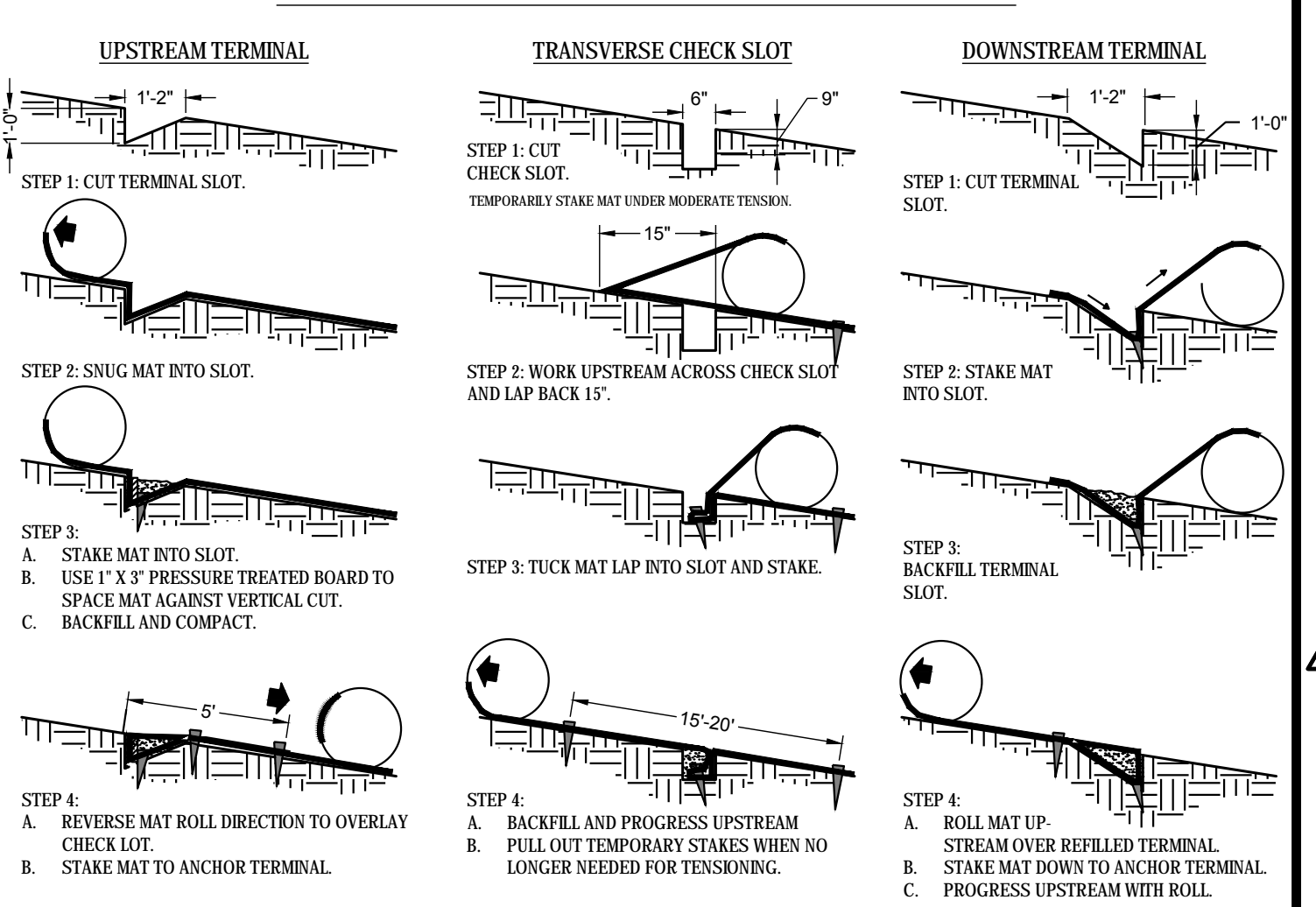
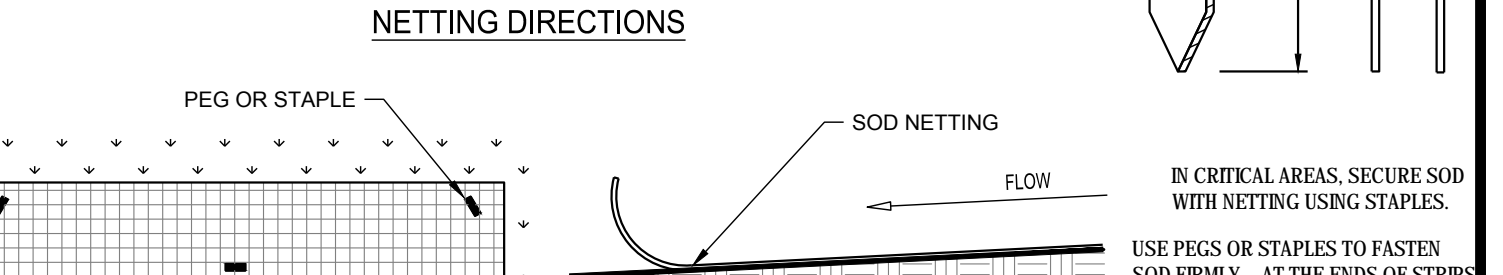
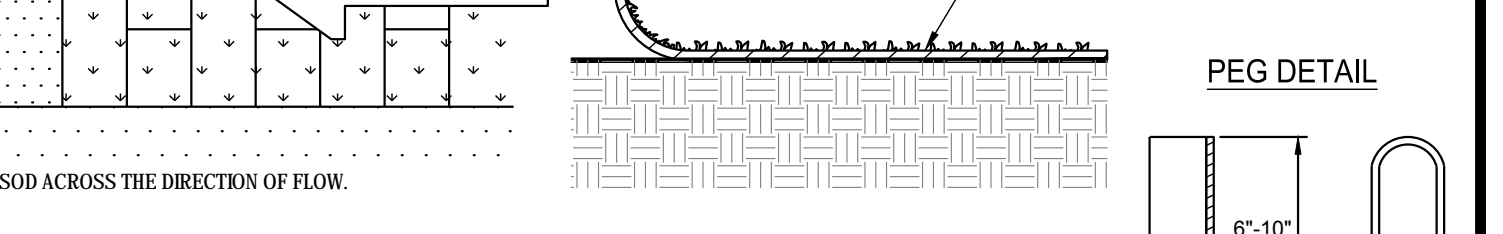
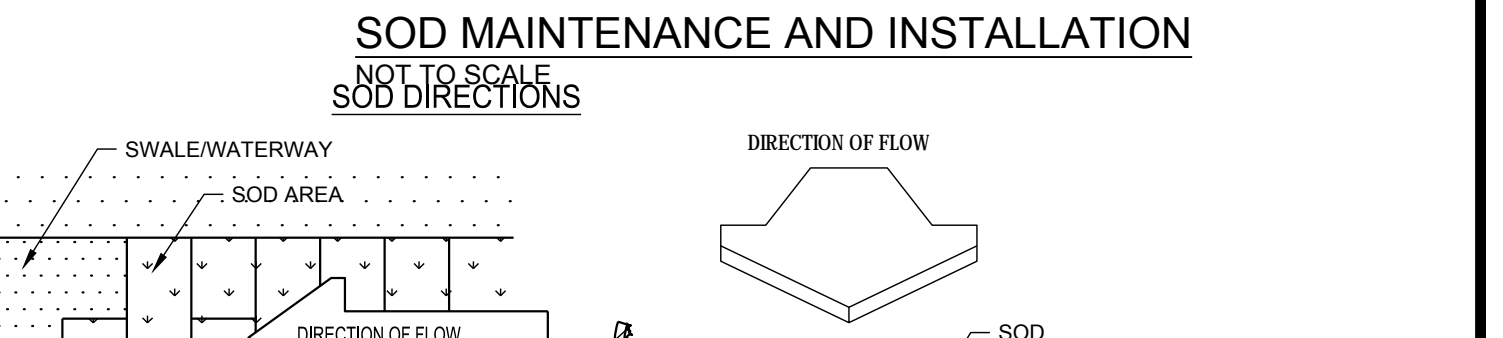
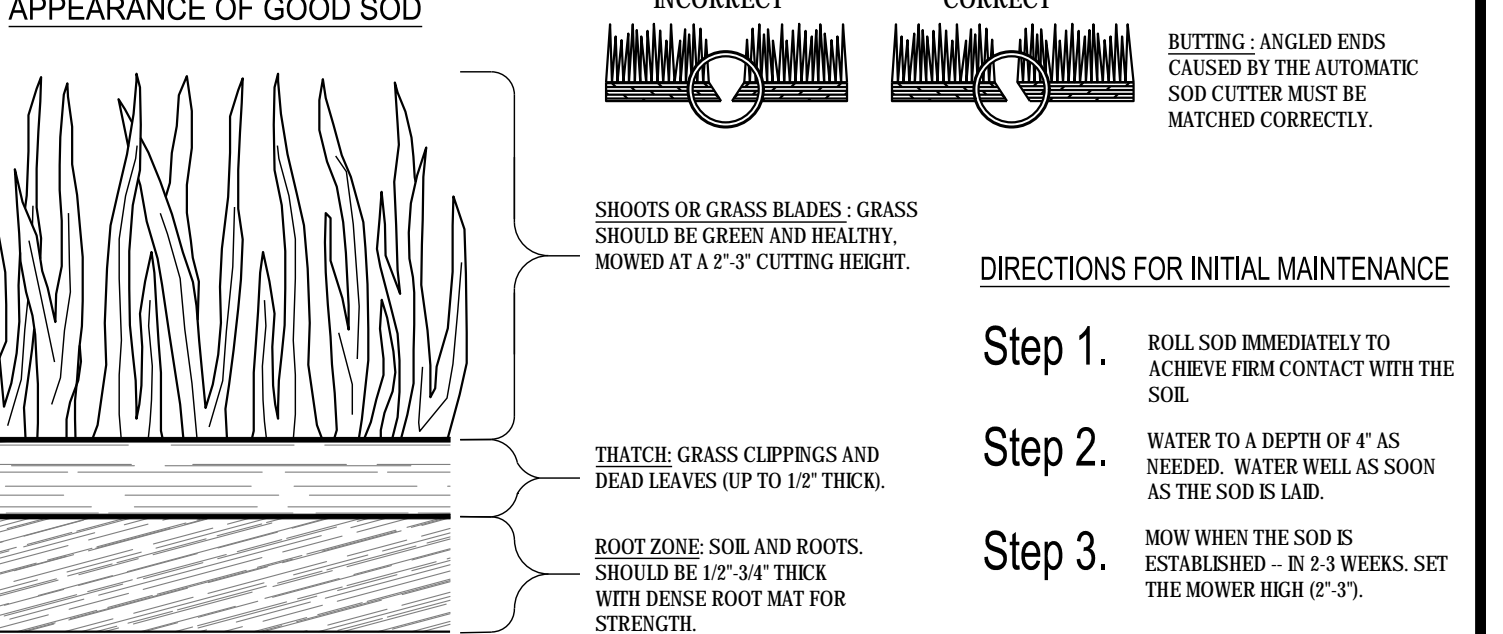
REFER TO THE POLLUTION CONTROL NOTES FOR RECOMMENDED SEQUENCE AND PRACTICE OF DUST CONTROL MEASURES.

TEMPORARY METHODS

- 1. APPLICATION OF MULCH (SEE Ds1) 2. TEMPORARY VEGETATIVE COVER (SEE Ds2) 3. SPRAY ON ADHESIVES (SEE Ta)

PERMANENT METHODS

- 1. PERMANENT VEGETATION - (SEE Ds3) 2. TOPSOILING - COVER WITH LESS ERODIVE TOPSOIL.



Ss TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)



DESIGNING ARCHITECT



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Revisions

Table with columns: No., Date, Description for revisions.

RELEASED FOR CONSTRUCTION

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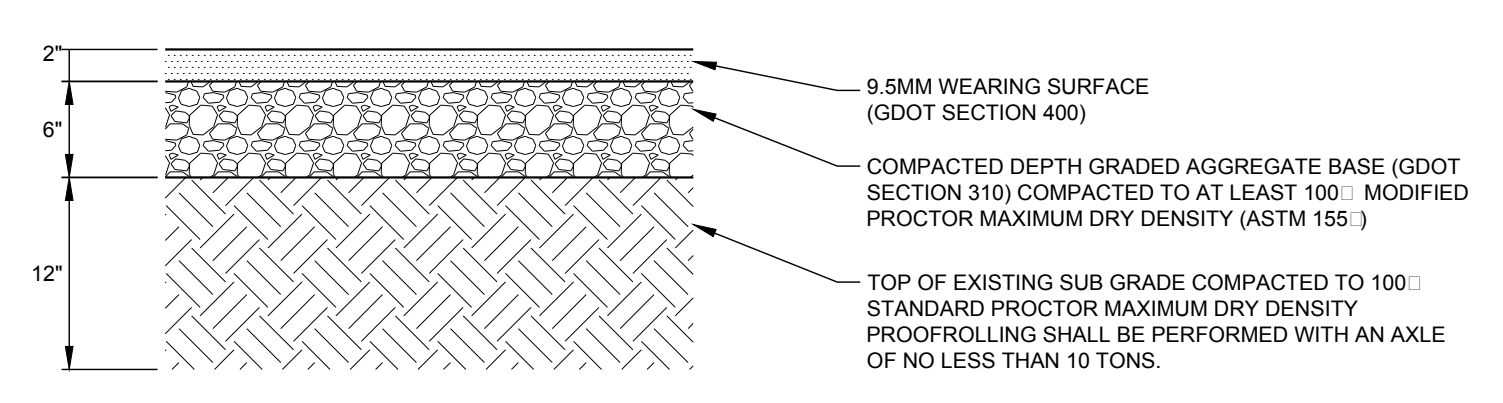
PROJECT NUMBER

EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS

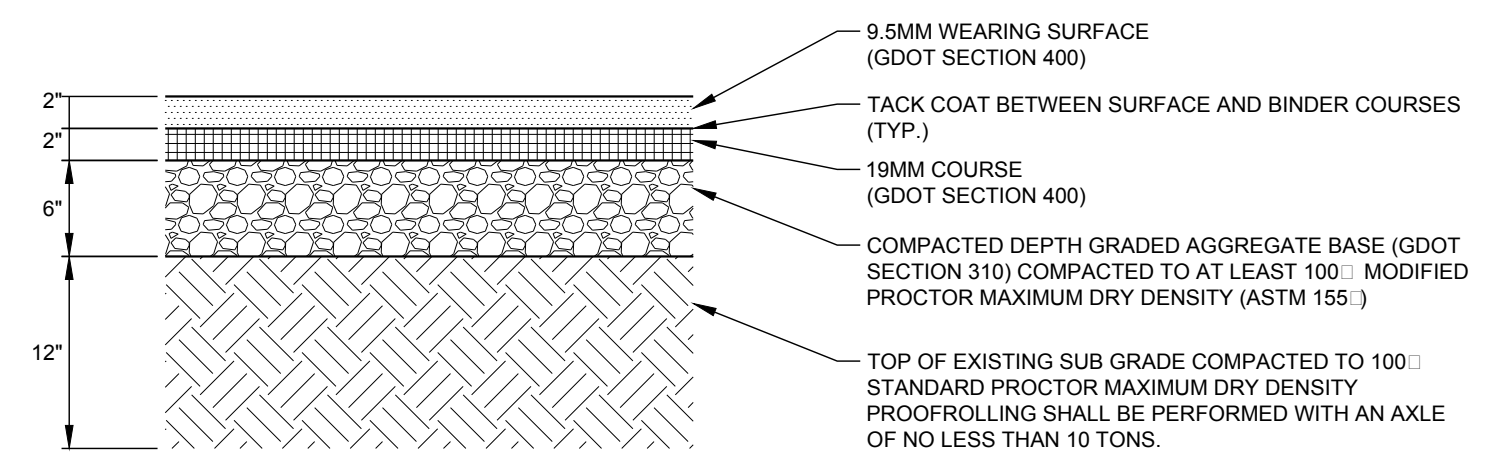
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C-4.8

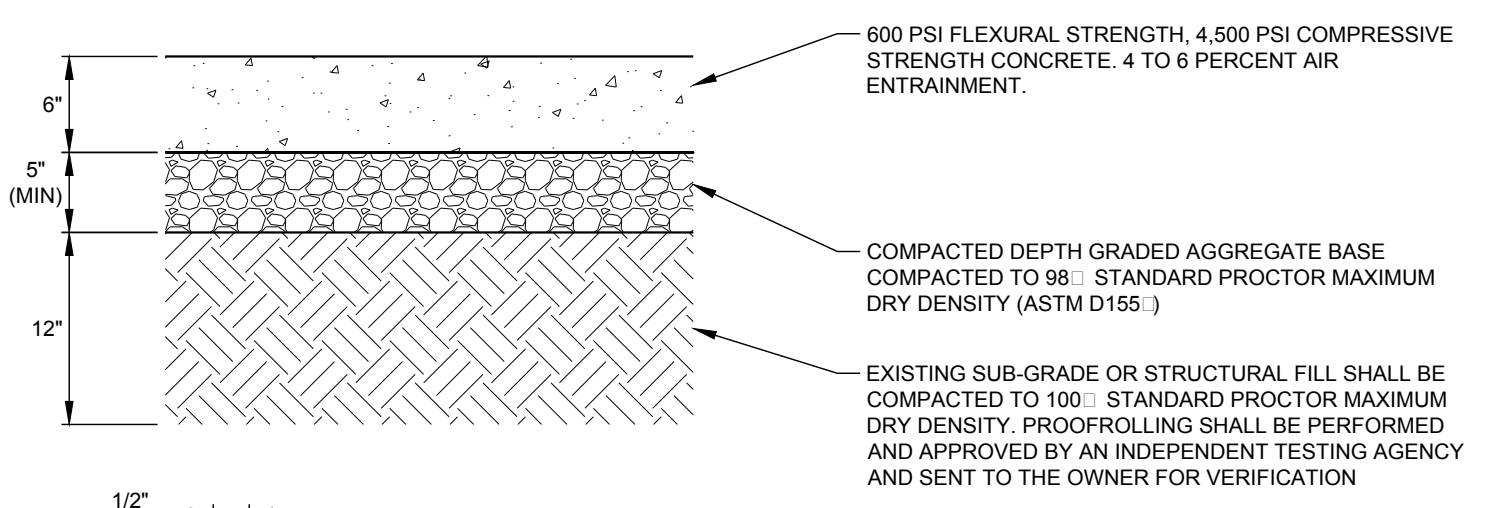
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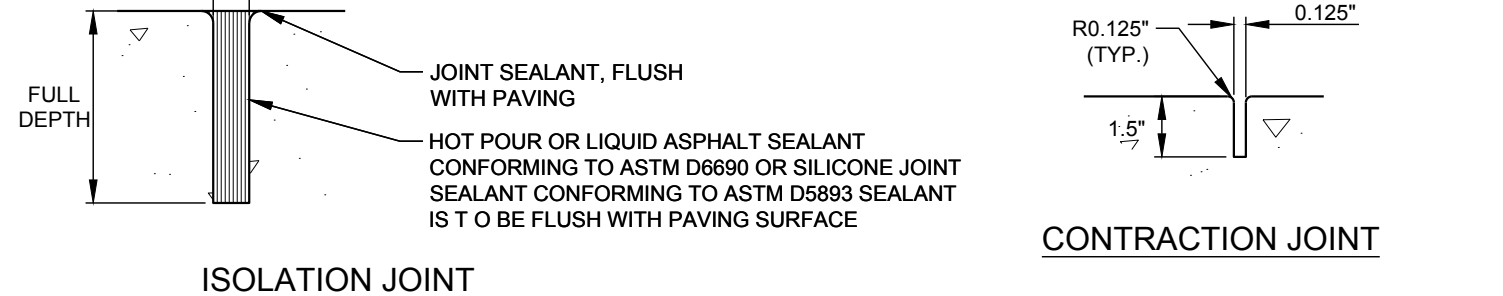
C-5 STANDARD DUTY ASPHALT PAVING
NOT TO SCALE



C-5 HEAVY DUTY ASPHALT PAVING
NOT TO SCALE



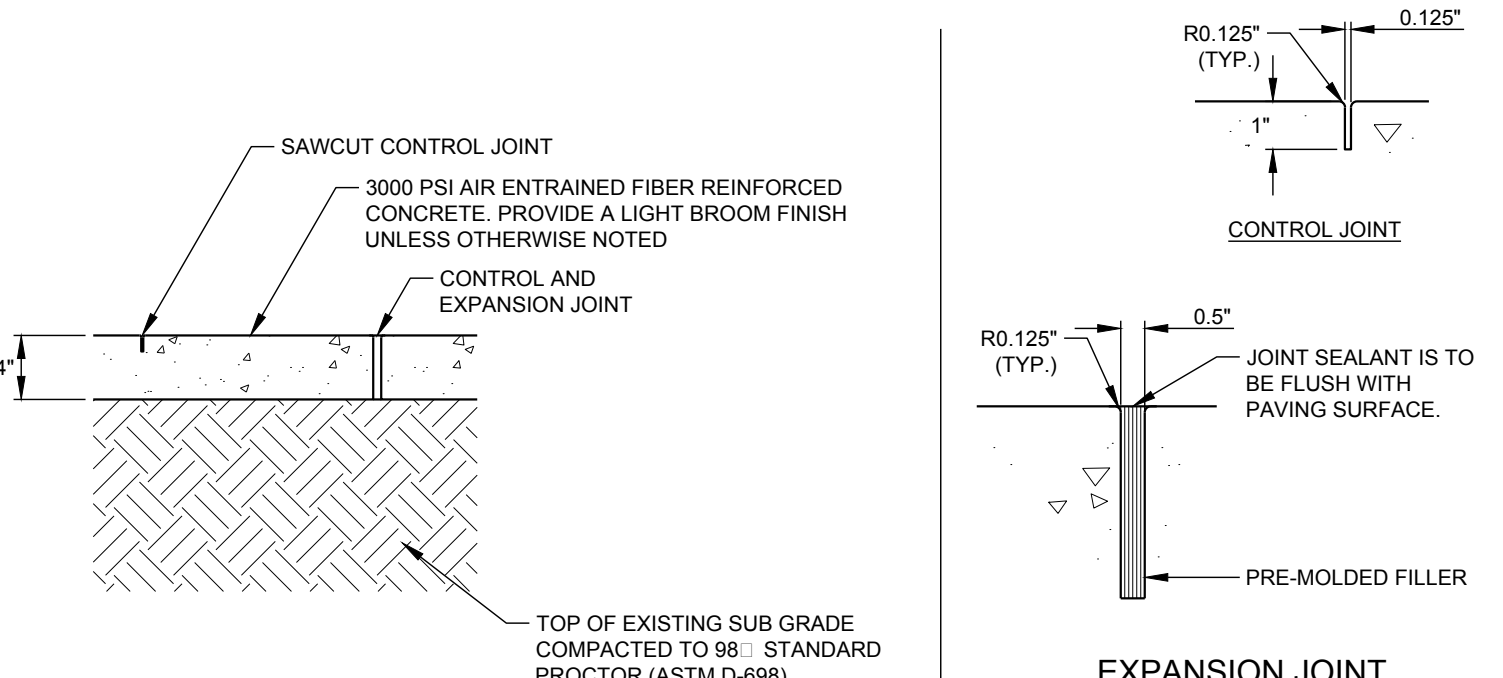
C-5 HEAVY DUTY CONCRETE PAVING
NOT TO SCALE



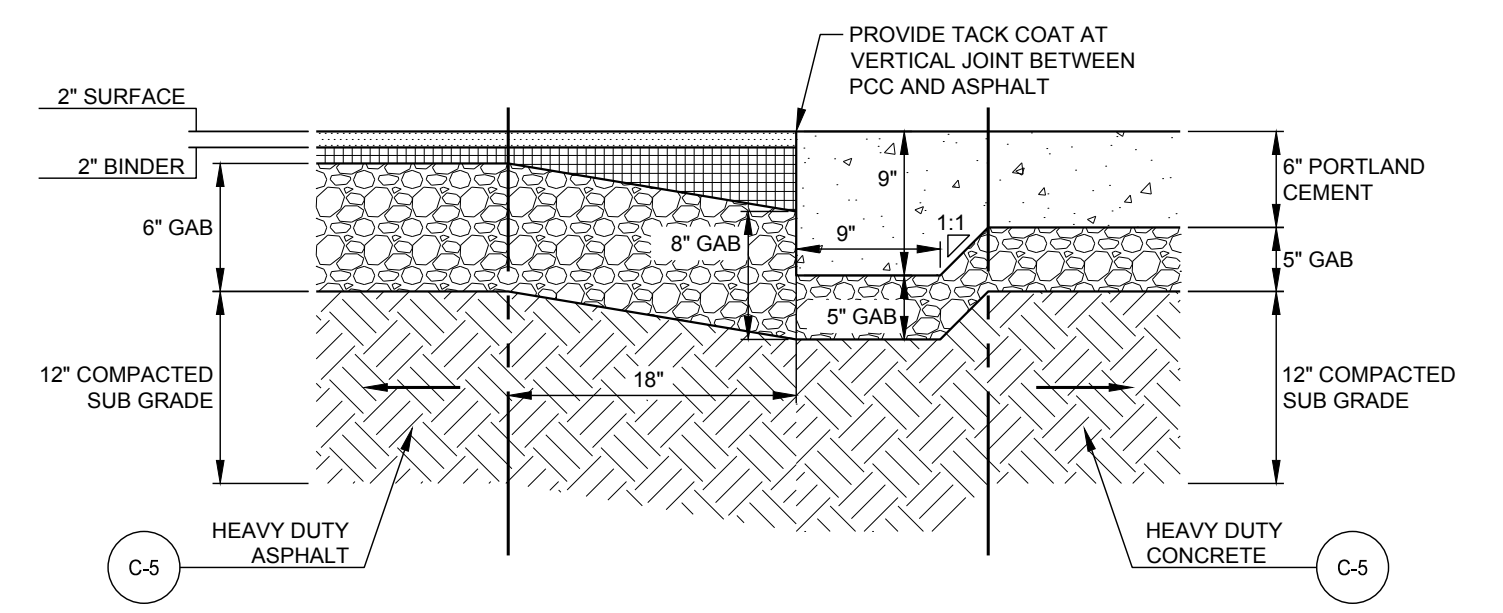
ISOLATION JOINT

CONTRACTION JOINT

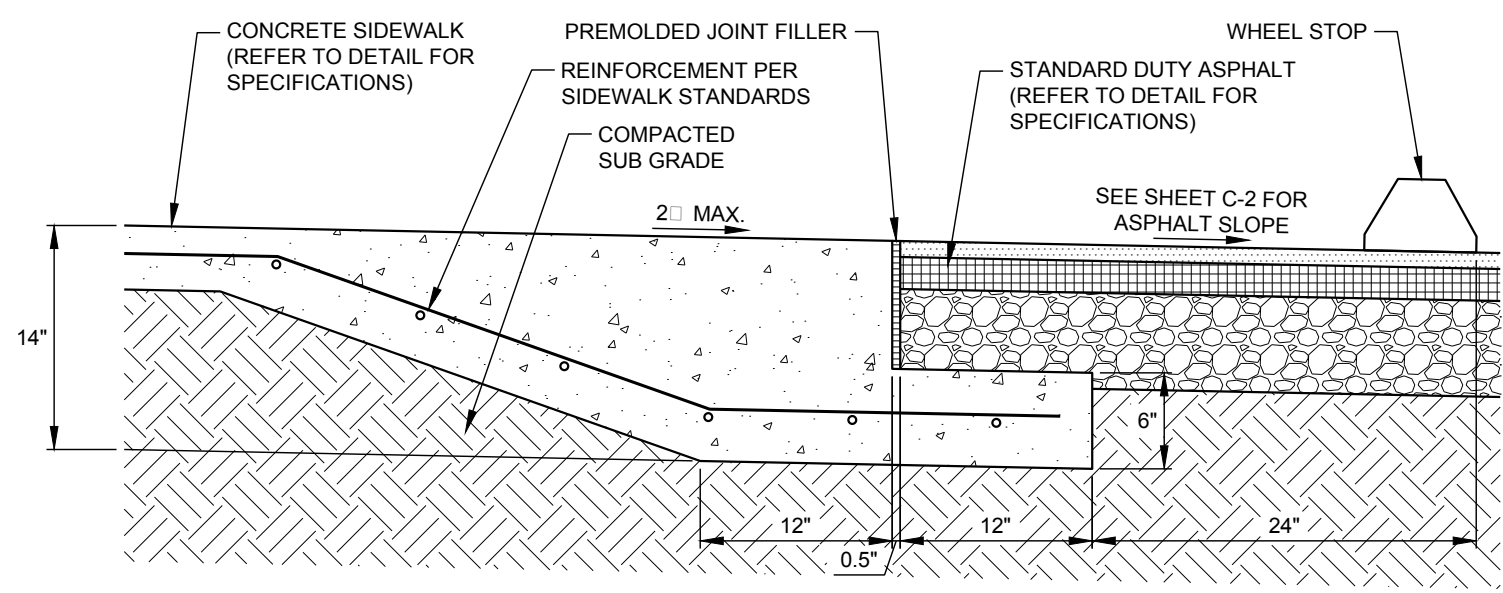
- NOTE:
1. DETAIL REFLECTS HEAVY DUTY CONCRETE PAVING RECOMMENDATION BY PROJECT GEOTECHNICAL ENGINEER.
 2. A TACK COAT SHALL BE APPLIED BETWEEN THE HD SECTION AND THE ON-SITE ASPHALT SECTION.
 3. UNLESS OTHERWISE NOTED ON PLANS, CONTRACTION JOINTS TO BE 10'-0" O.C. MAX AND ISOLATION JOINTS TO SEPARATE 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.



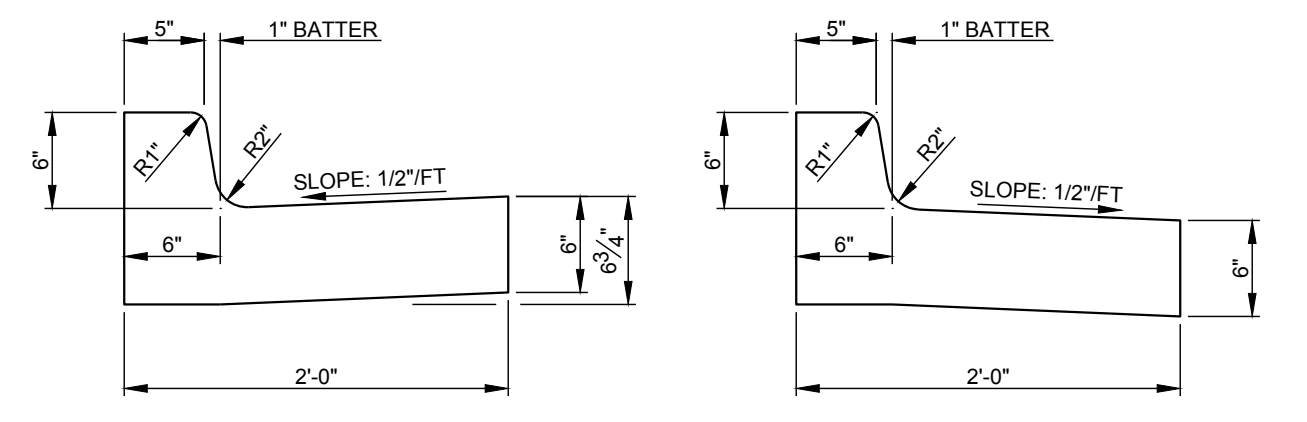
C-5 CONCRETE SIDEWALK
NOT TO SCALE



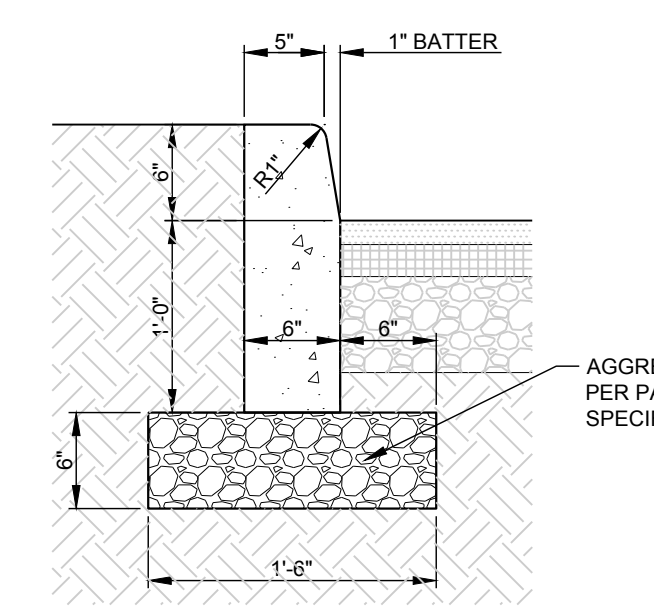
C-5 HEAVY DUTY ASPHALT / CONCRETE TRANSITION
NOT TO SCALE



C-5 CONCRETE SIDEWALK / ASPHALT TRANSITION
NOT TO SCALE

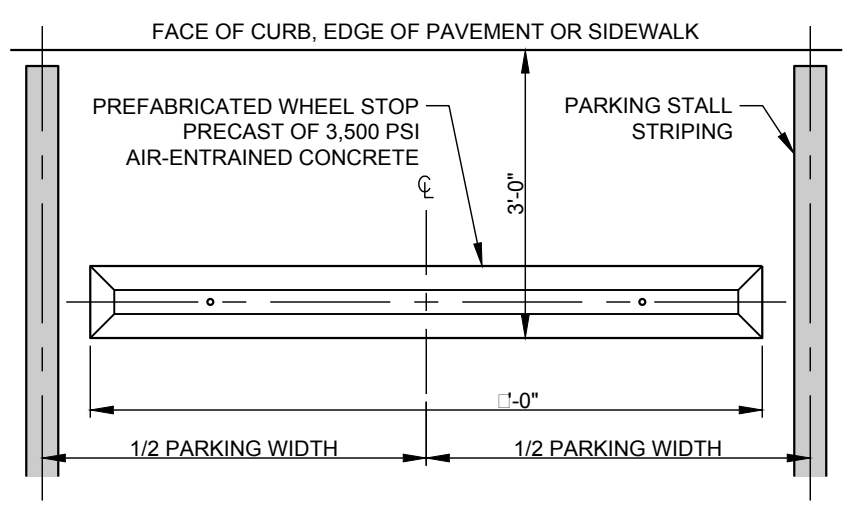
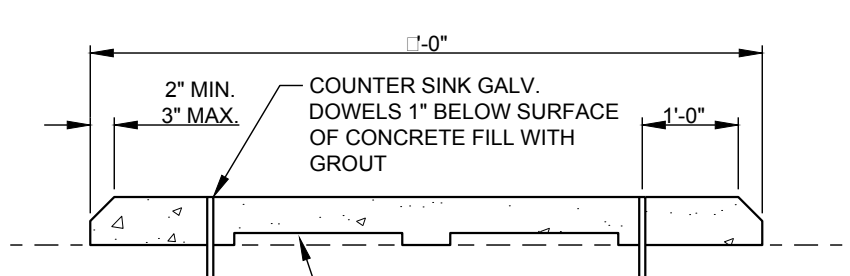
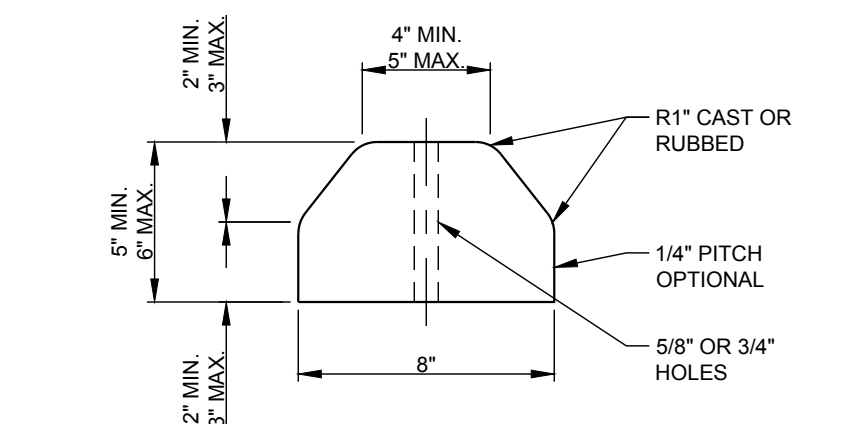


C-5 24" CONCRETE CURB AND GUTTER
NOT TO SCALE

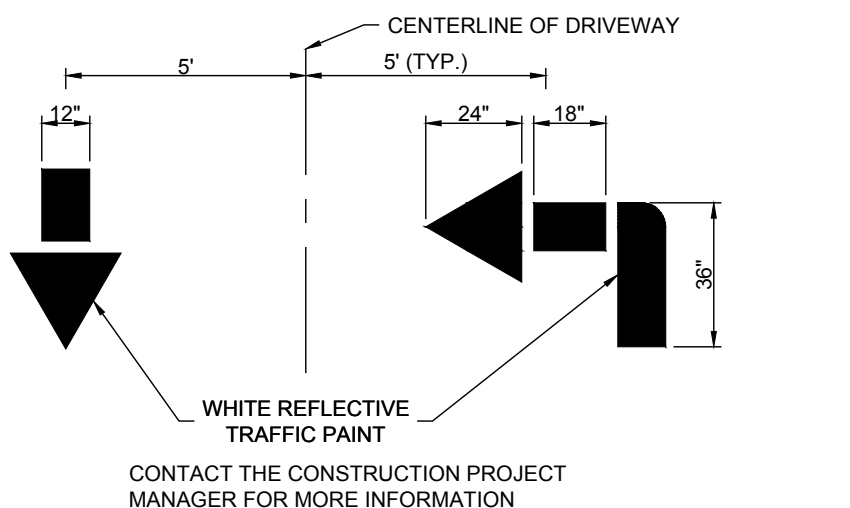


C-5 CONCRETE HEADER CURB
NOT TO SCALE

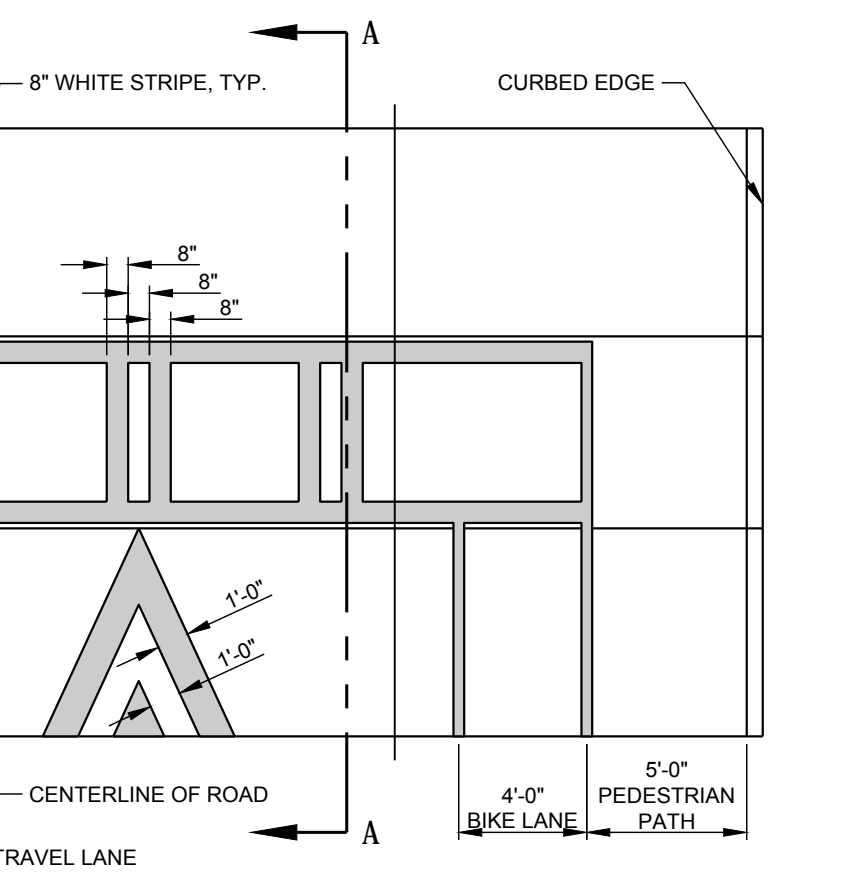
- NOTE:
1. 1/2" PRE FORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND RADIUS POINTS.
 2. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'
 3. MAXIMUM DISTANCE DUMMY JOINTS = 10.0'
 4. CONCRETE STRENGTH = 3000 P.S.I., FINISH SHALL BE SMOOTHED AND EVENED WITH WOODEN FLOAT.



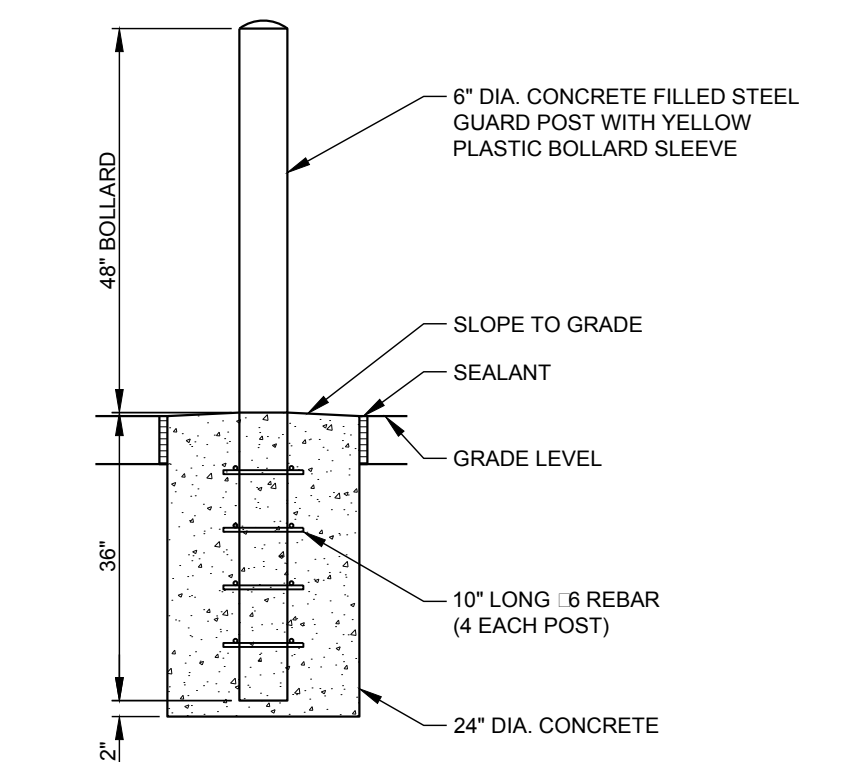
C-5 CONCRETE WHEEL STOP
NOT TO SCALE



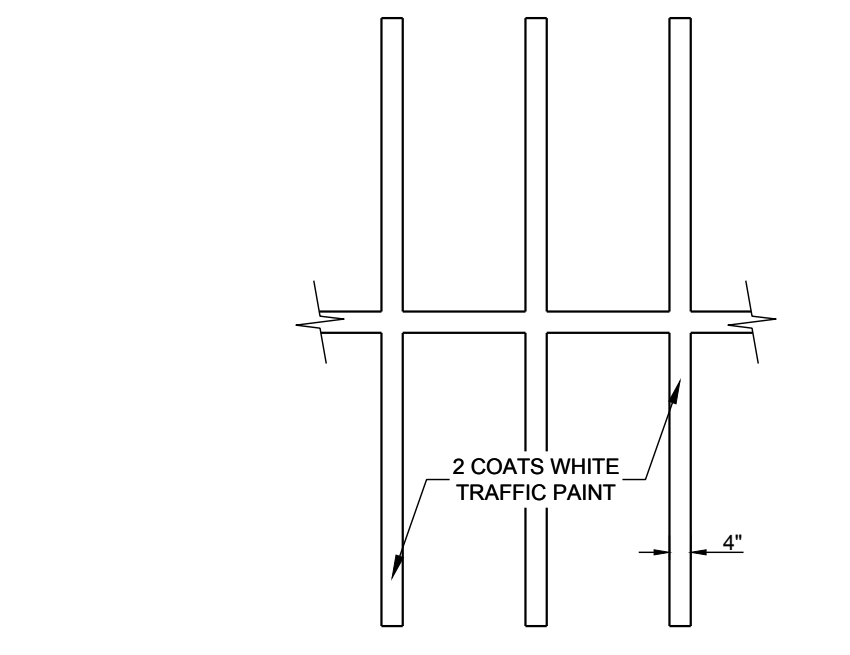
C-5 DRIVEWAY TRAFFIC FLOW DIRECTIONAL ARROW
NOT TO SCALE



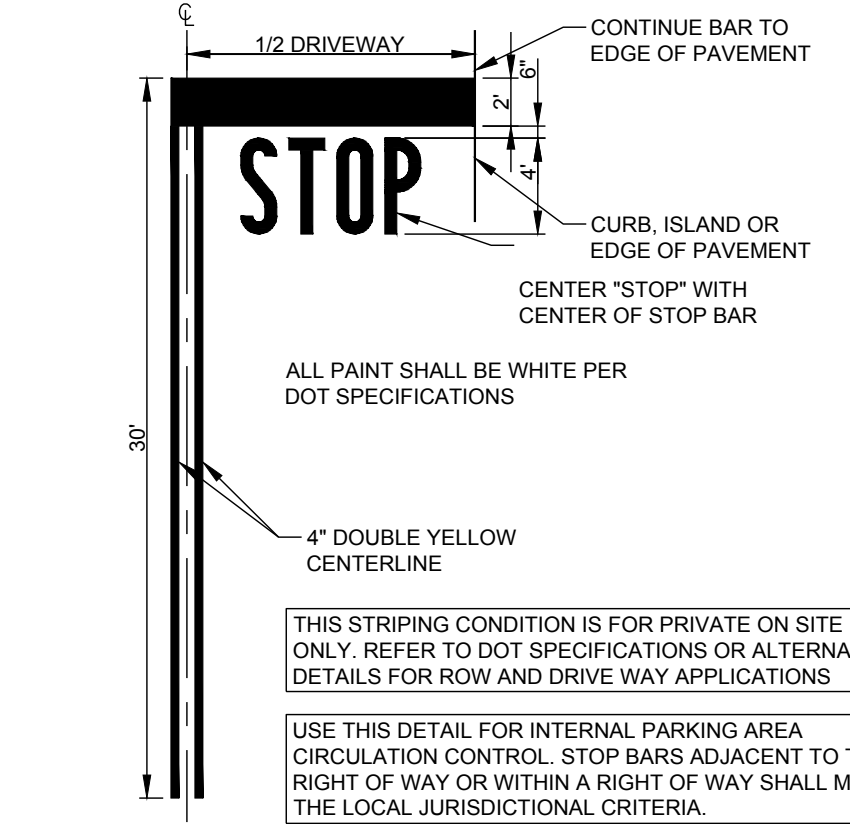
C-5 RAISED SPEED TABLE
NOT TO SCALE



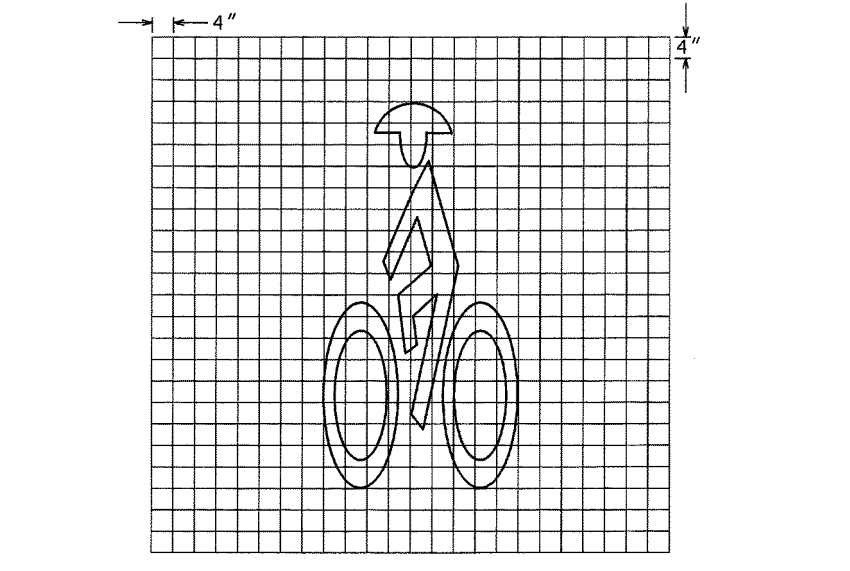
C-5 BOLLARD - 6"
NOT TO SCALE



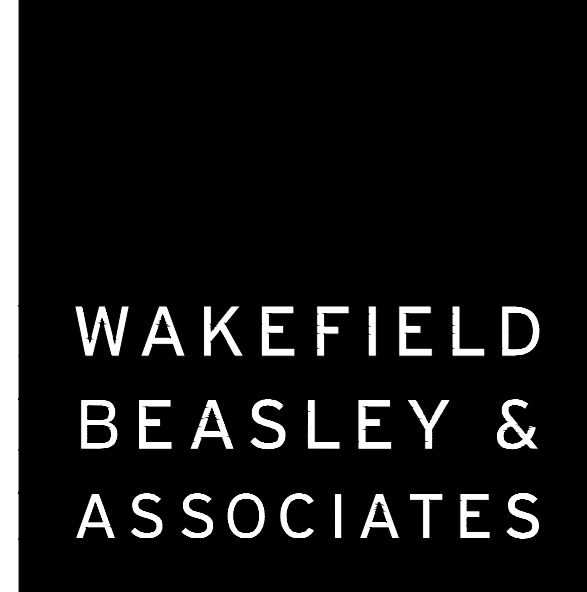
C-5 PAVEMENT STRIPING
NOT TO SCALE



C-5 STOP BAR AND LABEL STRIPING
NOT TO SCALE



C-5 BIKE LANE STRIPING
NOT TO SCALE

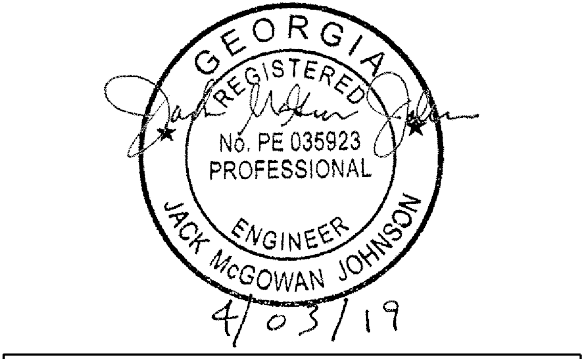


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Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS
2019-04-03 COUNTY COMMENTS
2019-05-16 ADDENDUM 2

Revisions

No.	Date	Description

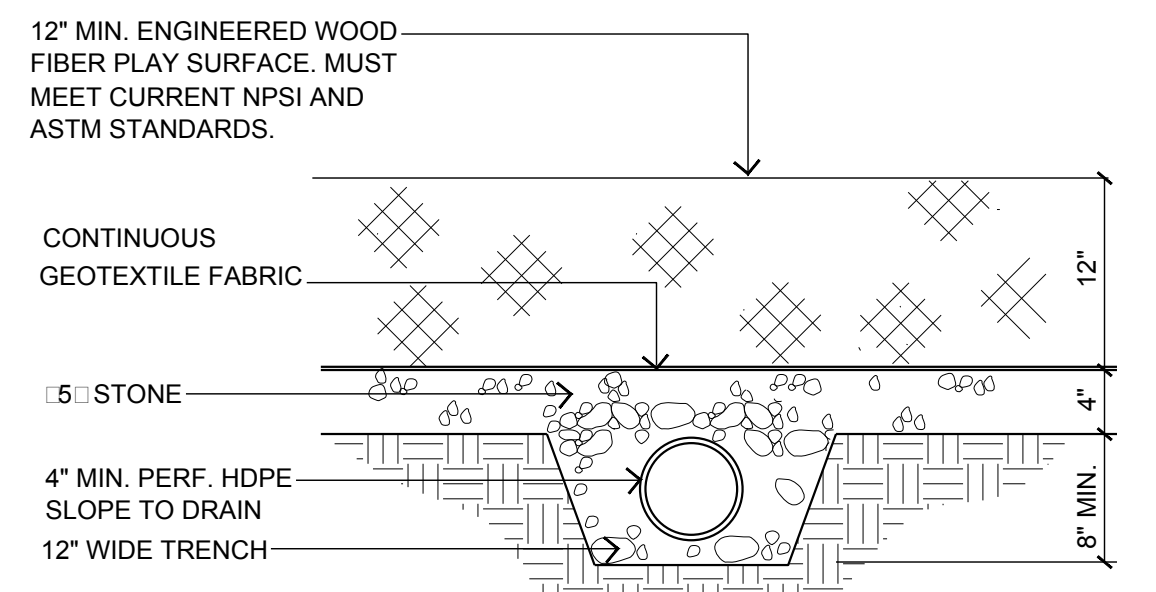
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DATE
PROJECT NUMBER
SHEET TITLE
CONSTRUCTION DETAILS
SHEET NUMBER

C-5



3/09/2019 10:48:19 AM SHEET NAME: CONSTRUCTION DETAILS SHEET NUMBER: C-5.1 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION ENAME: F:\12\020 Dawson Senior Center - Dawson County, GA\DWG\C-5 Construction Details.dwg

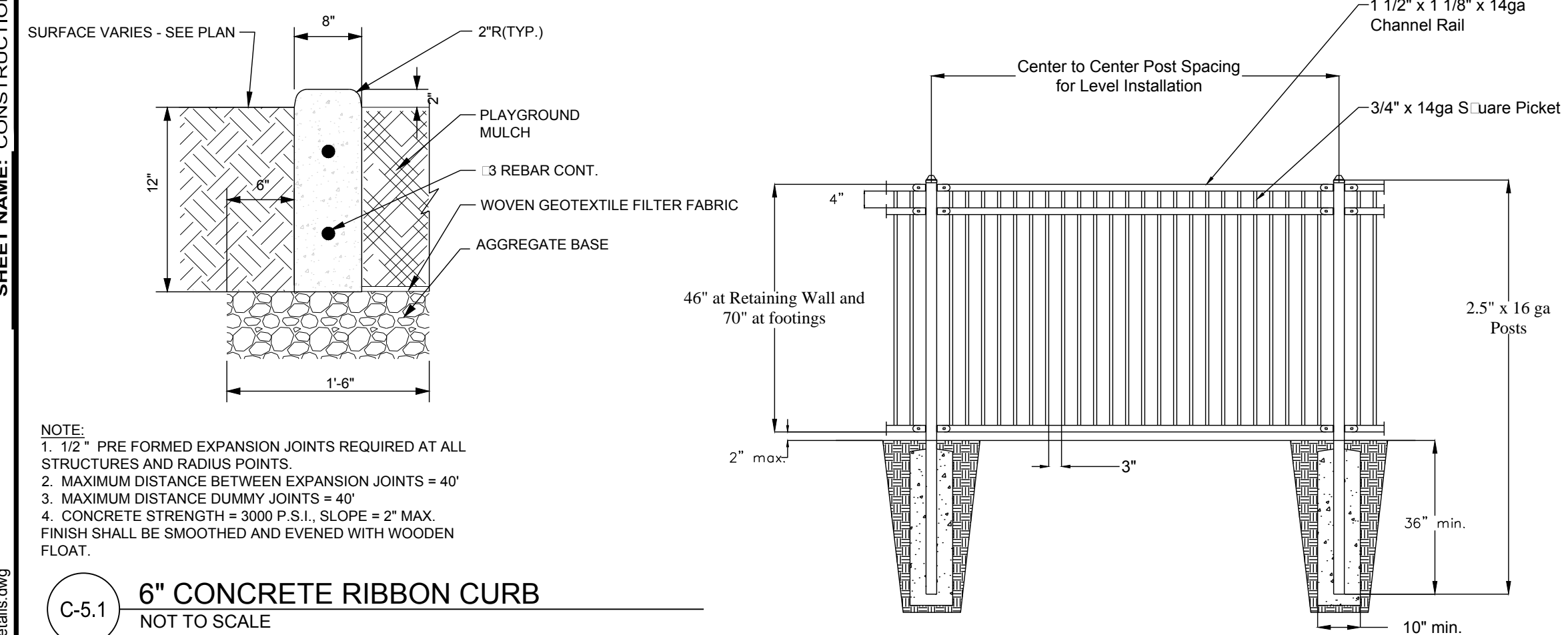


NOTE: PERFORATED PIPE TO CONNECT TO 10" (MIN.) NON-PERFORATED OUTLET PIPE. ALL PIPE HIGH DENSITY POLYETHYLENE

PLAYGROUND RESURFACING MATERIAL SPECIFICATIONS

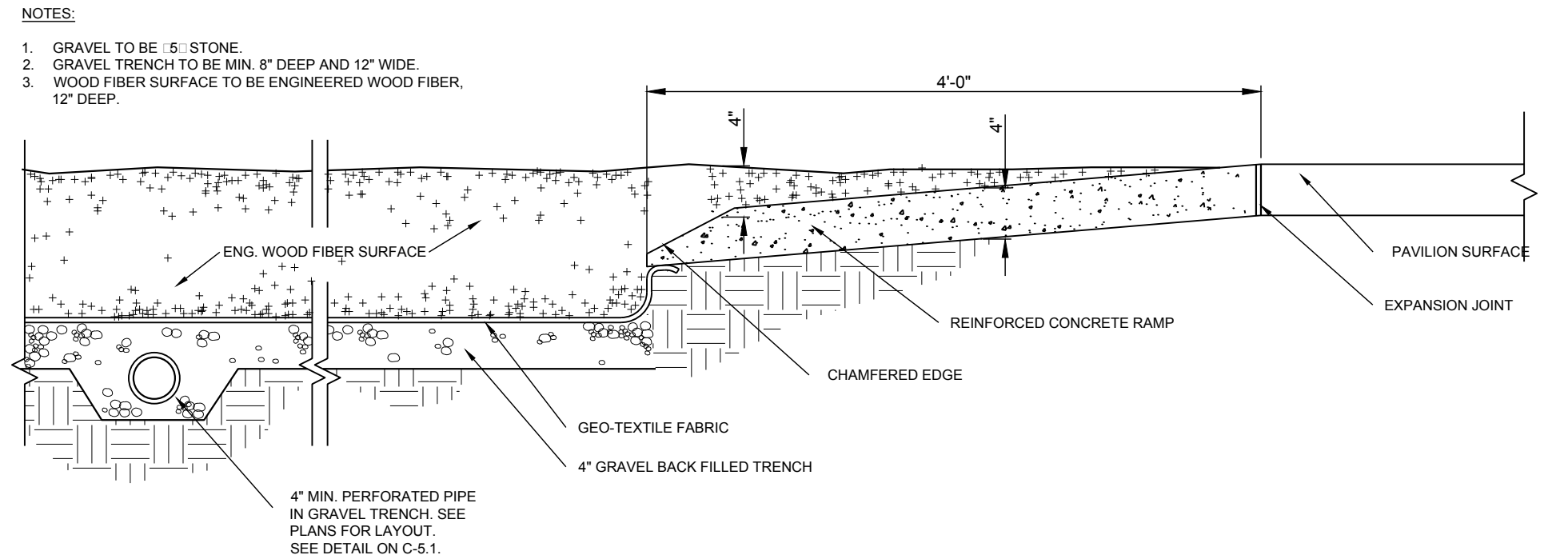
- 1. PRODUCT MUST BE MANUFACTURED, CRUSHED VIRGIN WOOD FIBERS COMPRISED OF HARDWOODS CONSISTING OF RANDOMLY SIZED WOOD FIBERS THAT DO NOT EXCEED 1.5 IN LENGTH, .5 IN WIDTH AND .33 IN DEPTH, AND CONTAINING 10 TO 20 FINES TO AID IN COMPACTION. STANDARD WOOD CHIPS OR BARK MULCH WILL NOT BE ACCEPTABLE.
2. PRODUCT MUST BE PROVEN NON-TOXIC, FREE OF BARK, TWIGS, LEAF DEBRIS, AND ORGANIC MATERIALS, AND MUST BE ABLE TO CERTIFY THAT IT IS NON-FLAMMABLE. TEST DATA MUST BE AVAILABLE UPON REQUEST.
3. PRODUCT MUST NOT CONTAIN ANY RECYCLED WOOD PRODUCTS OR WASTE WOOD, SUCH AS PALLETS, ANY WOOD CONTAINING PAINT, CHEMICALS, OR ADDITIVES. BIDDER MUST PROVIDE TOXICITY TEST DATA.
4. WOOD FIBERS SHALL BE ADA-COMPLIANT, AND SHALL MEET ACCESSIBILITY STANDARDS WHEN TESTED IN ACCORDANCE WITH ASTM PS83-9. WHEN COMPACTED, THE FIBERS SHOULD KNIT TOGETHER TO FORM A FIRM, STABLE, SLIP RESISTANT SURFACE THAT WILL ALLOW ACCESS FOR PERSONS USING WHEELCHAIRS, CRUTCHES, OR WALKERS. TEST DATA MUST BE PRESENTED WITH BID.
5. MANUFACTURER MUST BE IN COMPLIANCE AND PROVIDE TESTING DATA FOR THE FOLLOWING STANDARDS AS SET FORTH BY THE AMERICAN STANDARD FOR TESTING MATERIALS (ASTM) FOR SURFACE SYSTEMS UNDER AND AROUND PLAYGROUND EQUIPMENT.
6. SAMPLES MUST BE PROVIDED WITH BID. ONE-QUART SAMPLE SIZE IS TO BE SENT AT NO COST TO THE COUNTY.

C-5.1 PLAYGROUND SURFACE INSTALLATION NOT TO SCALE

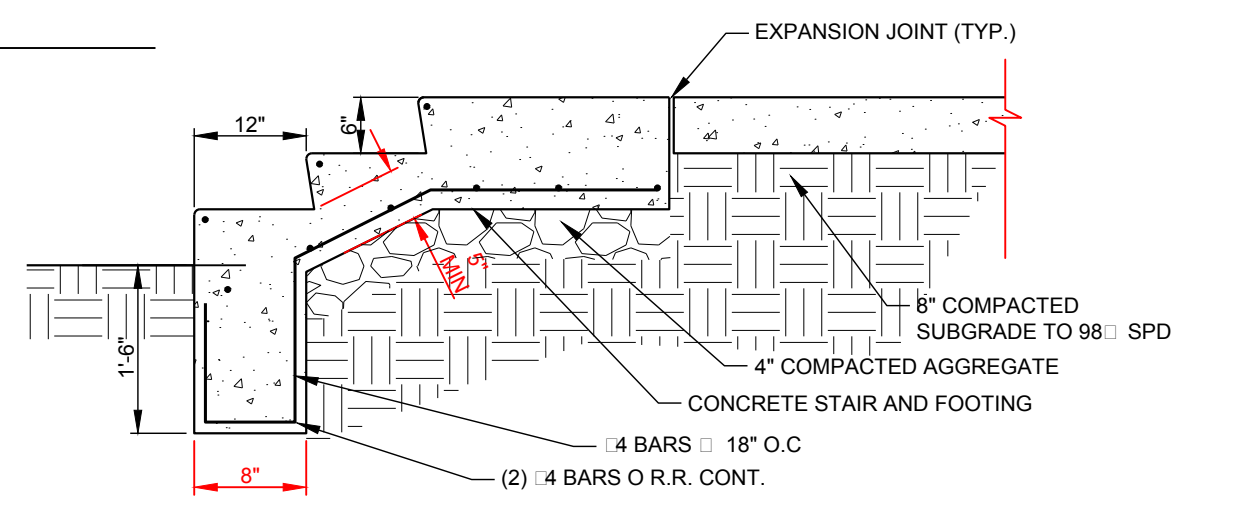
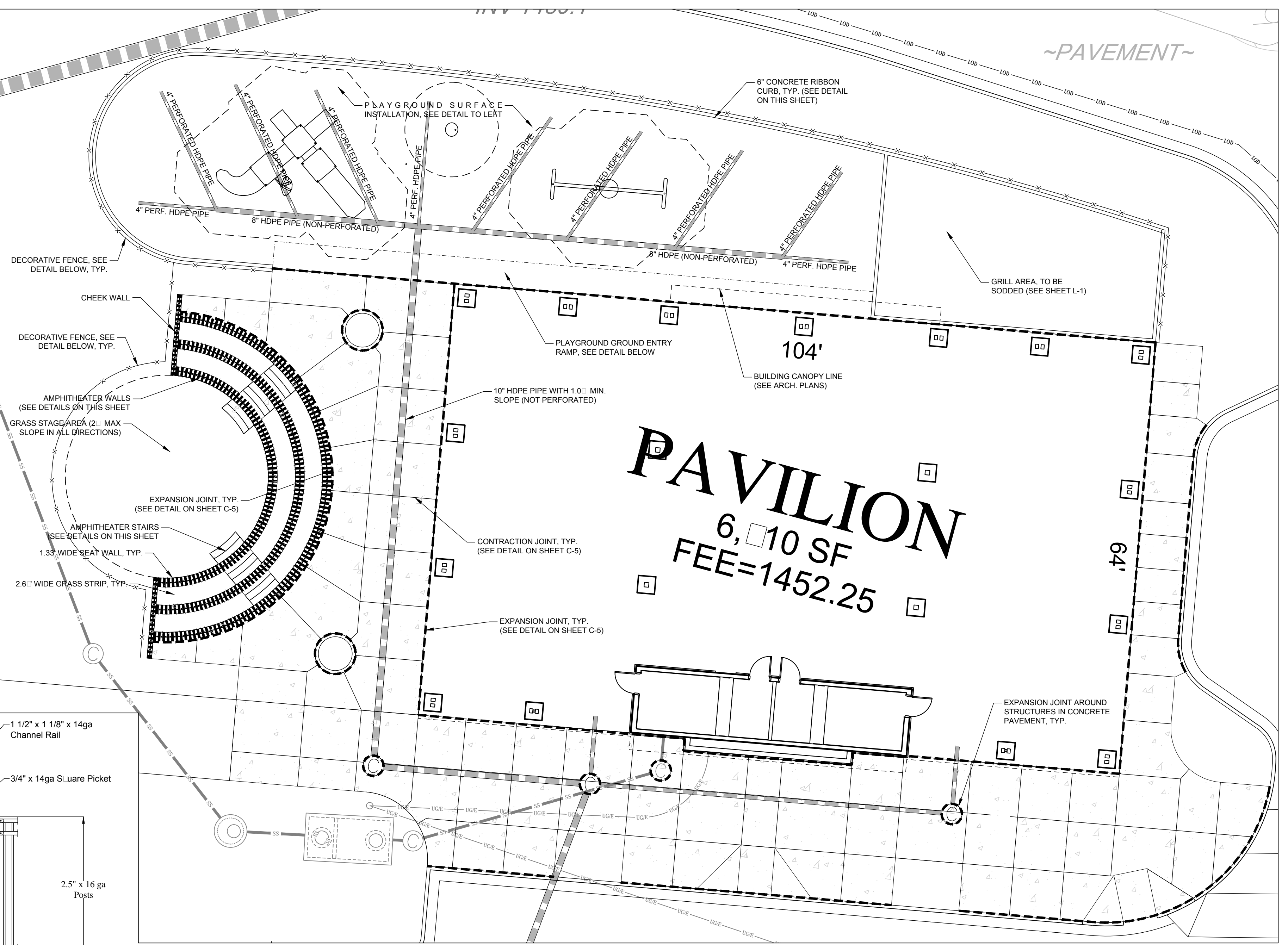


C-5.1 6\"/>

C-5.1 DECORATIVE FENCE NOT TO SCALE



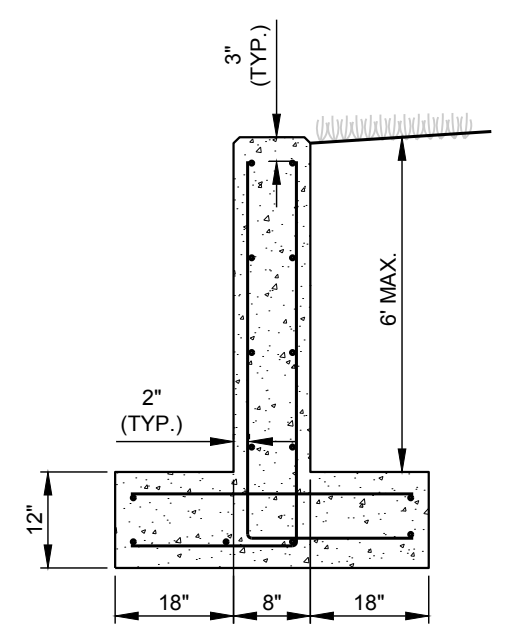
C-5.1 PLAYGROUND ENTRY RAMP NOT TO SCALE



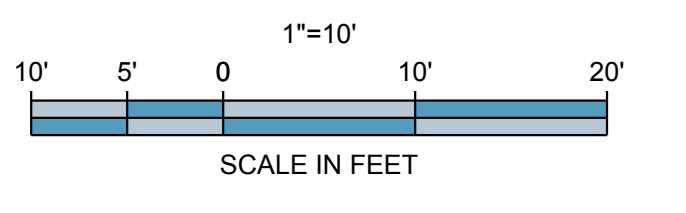
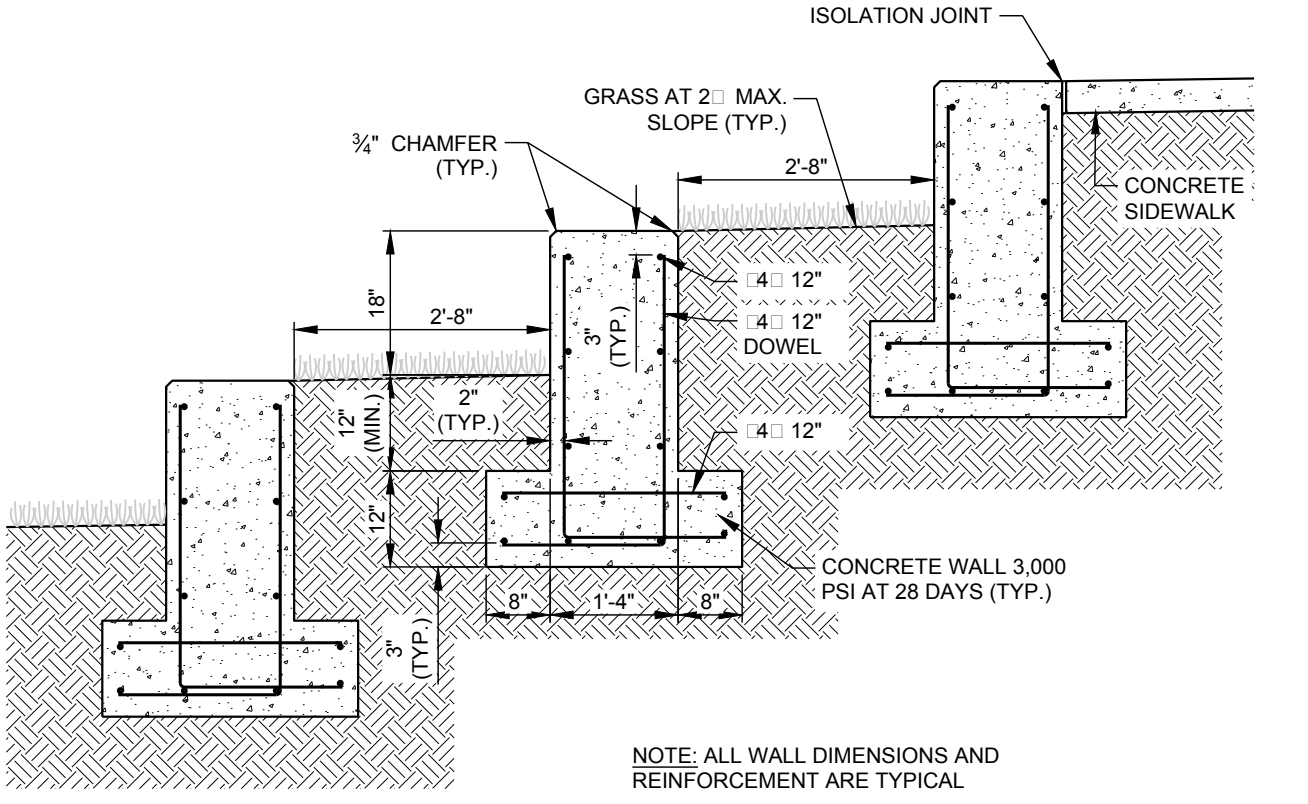
C-5.1 CHEEK WALL NOT TO SCALE

- 1) CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR COMPLETE HANDRAIL CONSTRUCTION AND INSTALLATION
2) ALL HANDRAILS ARE 36\"/>

C-5.1 AMPHITHEATER STAIRS NOT TO SCALE

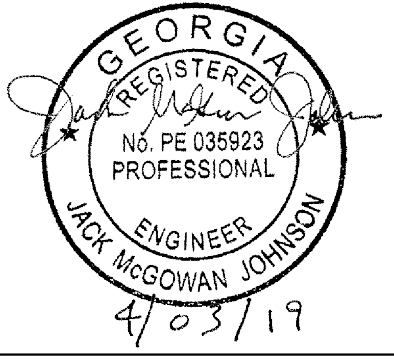


C-5.1 AMPHITHEATER WALL NOT TO SCALE



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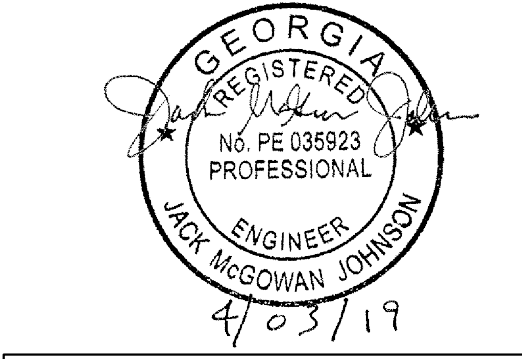


DAWSON COUNTY SENIOR CENTER AND PAVILION 201 RECREATION RD DAWSONVILLE, GA 30534

Table with 2 columns: No., Date, Description. Includes Copyright and Reproduction Notice, Print Record, and project history (2019-01-14 SCHEMATIC DESIGN PACKAGE, 2019-02-04 BID PACKAGE, 2019-03-08 GRANT REVIEW DOCUMENTS, 2019-04-03 COUNTY COMMENTS, 2019-05-16 ADDENDUM 2)

Table with 3 columns: No., Date, Description. Revisions section.

RELEASED FOR CONSTRUCTION DATE PROJECT NUMBER SHEET TITLE CONSTRUCTION DETAILS SHEET NUMBER C-5.1



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- Print Record
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2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS
2019-04-03 COUNTY COMMENTS
2019-05-16 ADDENDUM 2

Revisions table with columns: No., Date, Description

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DATE
PROJECT NUMBER
SHEET TITLE
UTILITY DETAILS
SHEET NUMBER

WATER MAIN TERMINATION. Includes diagrams of gate valve and valve box, and a table for concrete blocking with columns for fitting size, depth, length, height, volume, and thrust.

TYPICAL FIRE HYDRANT ASSEMBLY. Includes a detailed cross-section diagram of a fire hydrant assembly and a table for concrete blocking.

CONCRETE BLOCKING FOR BENDS. Includes diagrams of concrete blocking for bends and a table with columns for fitting size, depth, length, height, volume, and thrust.

CONCRETE BLOCKING FOR TEES AND PLUGS. Includes diagrams of concrete blocking for tees and plugs and a table with columns for fitting size, depth, length, height, volume, and thrust.

SUPPORT/RESTRAINT FOR GATE VALVES. Includes a diagram of a gate valve support/restraint and a table for concrete blocking.

CONCRETE BLOCKING-VERTICAL BENDS-UPWARD THRUST. Includes diagrams of concrete blocking for upward thrust and a table with columns for fitting size, depth, length, height, volume, and thrust.

CONCRETE BLOCKING-VERTICAL BENDS-DOWNWARD THRUST. Includes diagrams of concrete blocking for downward thrust and a table with columns for fitting size, depth, length, height, volume, and thrust.

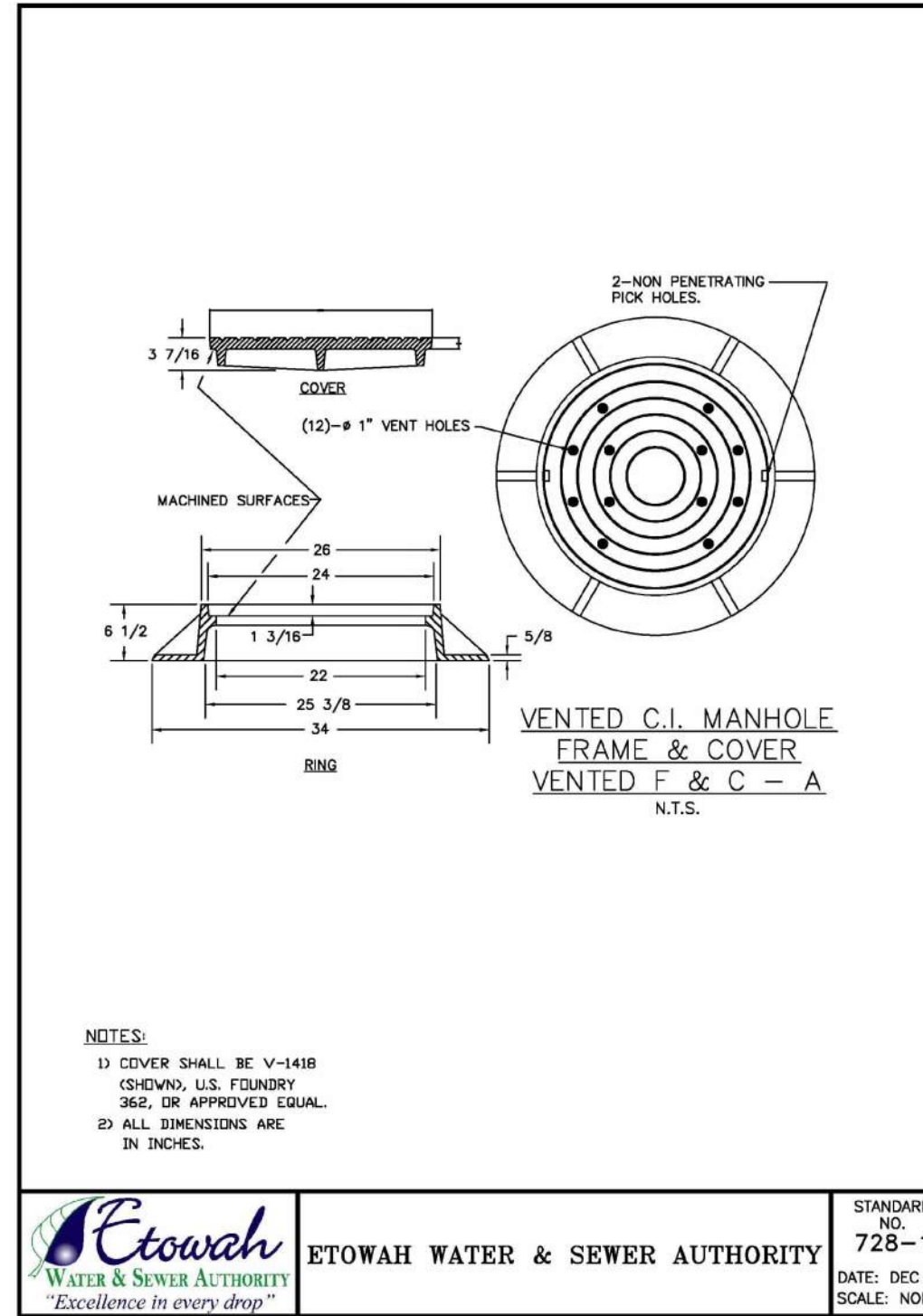
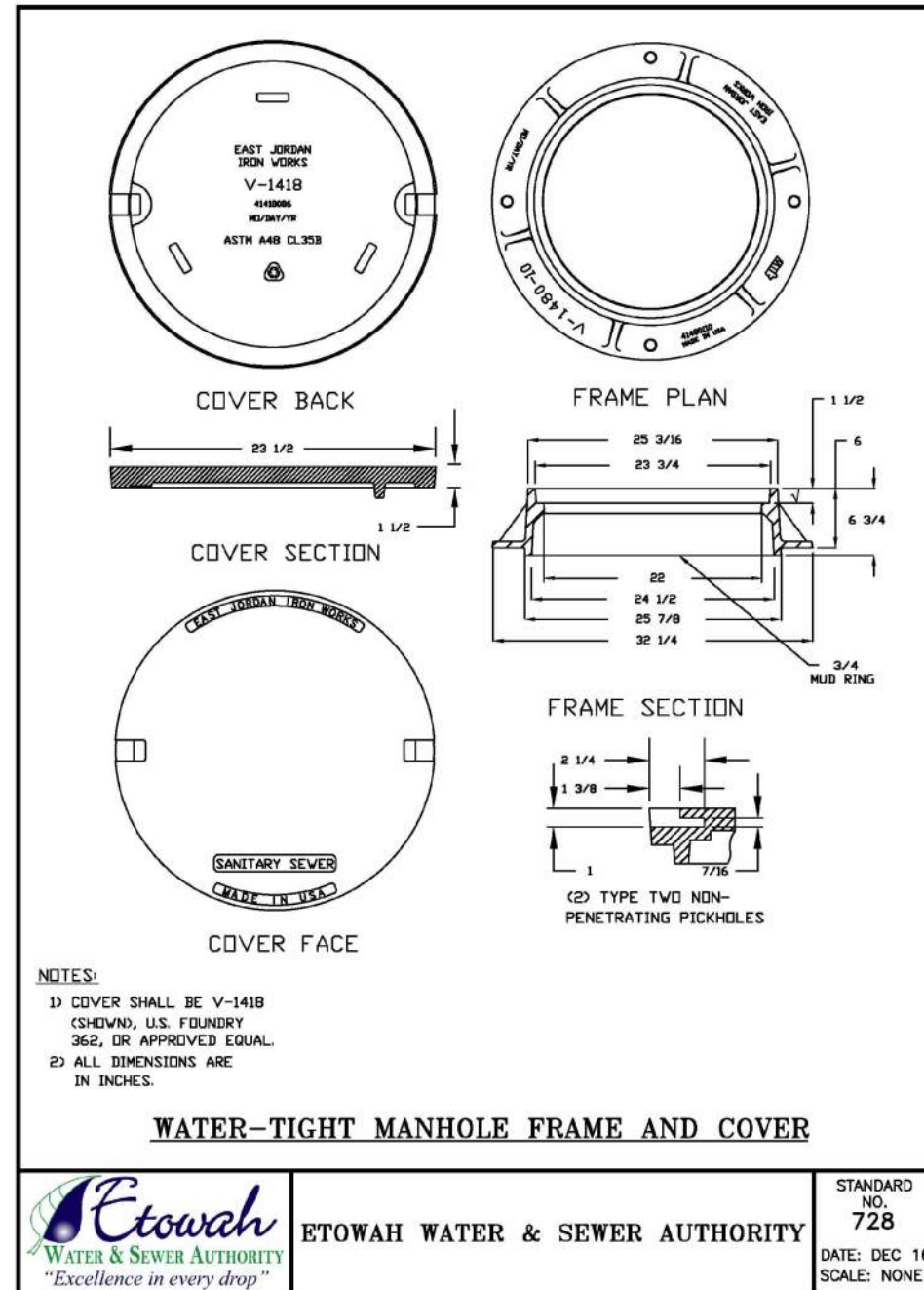
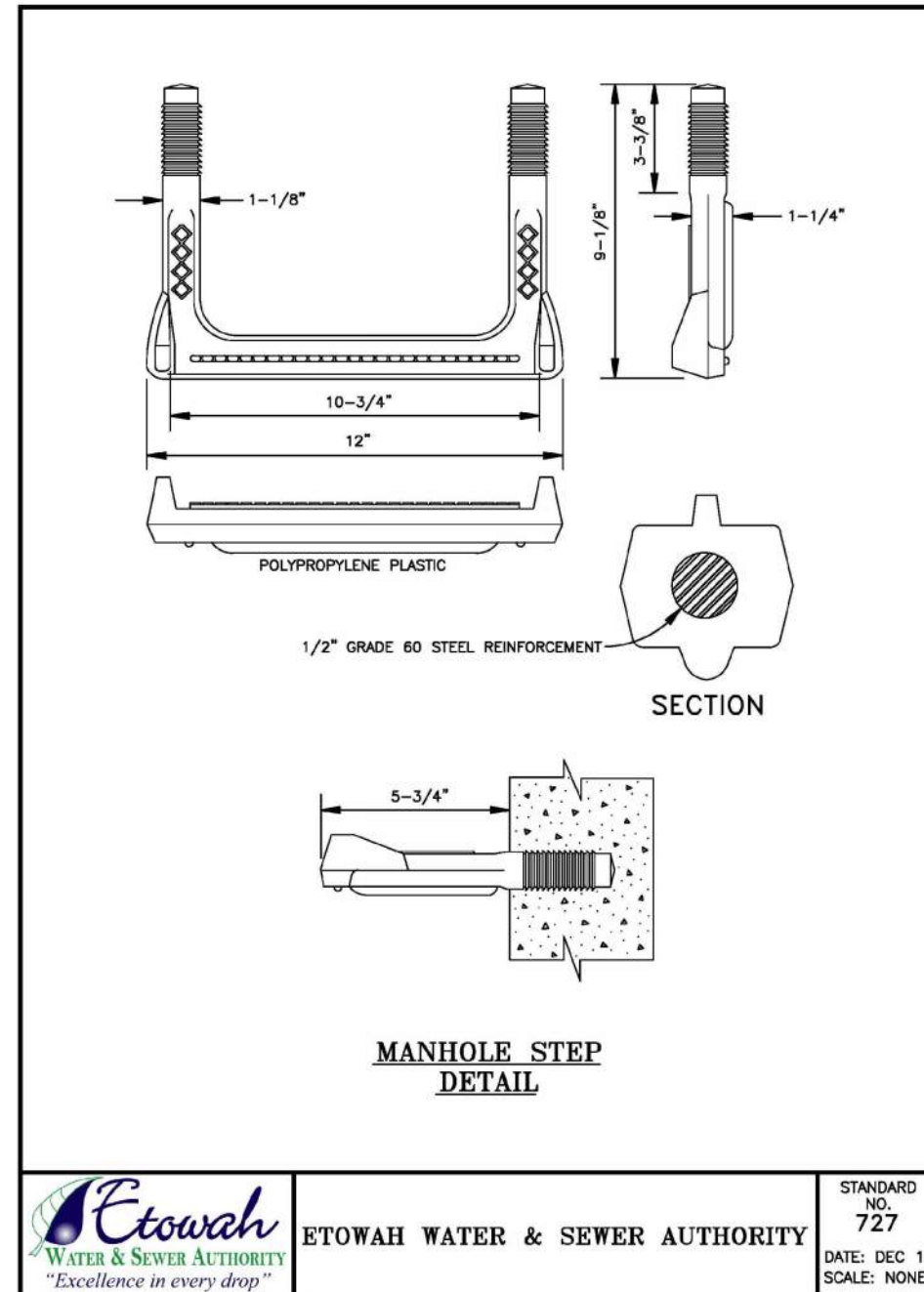
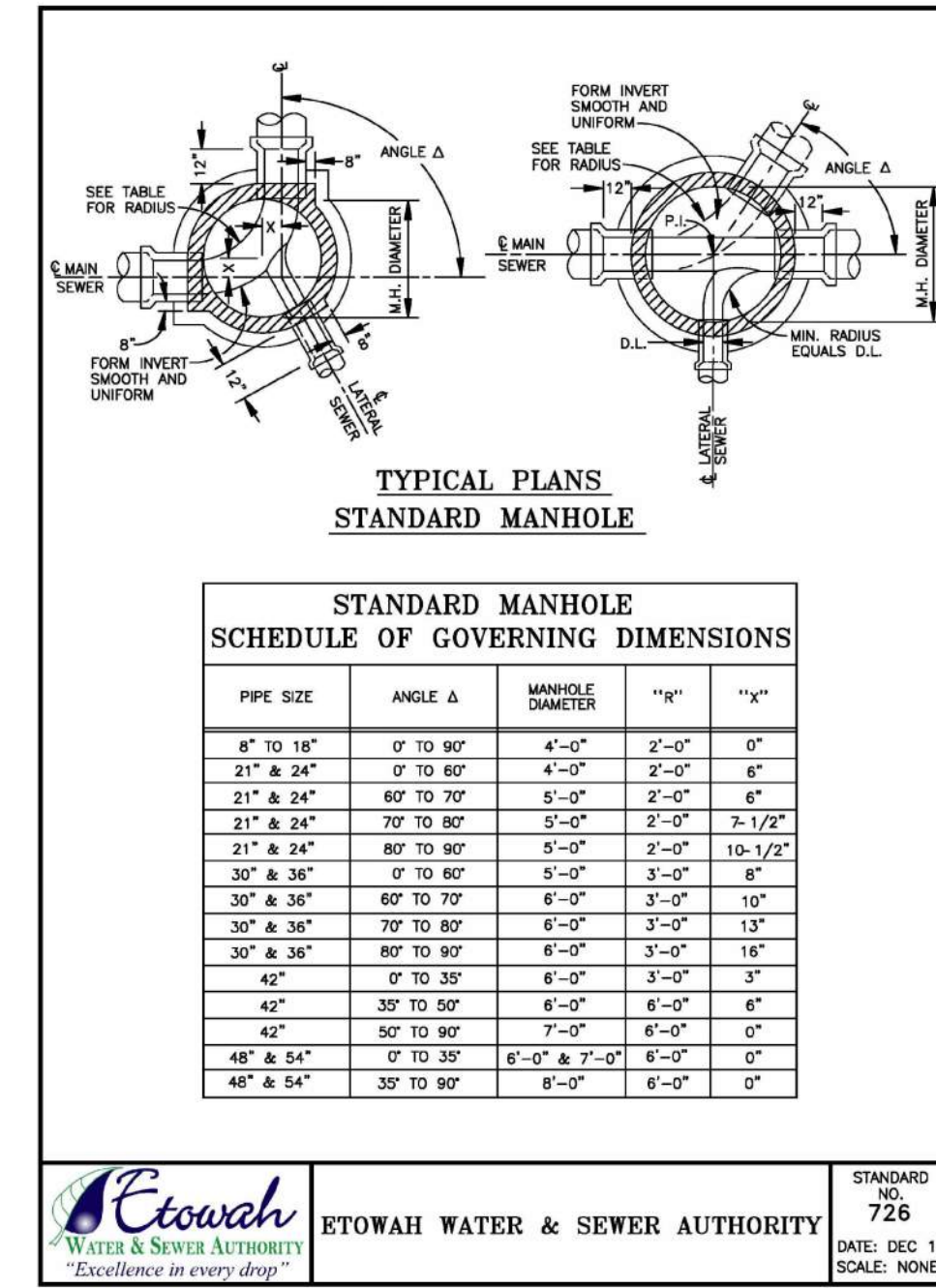
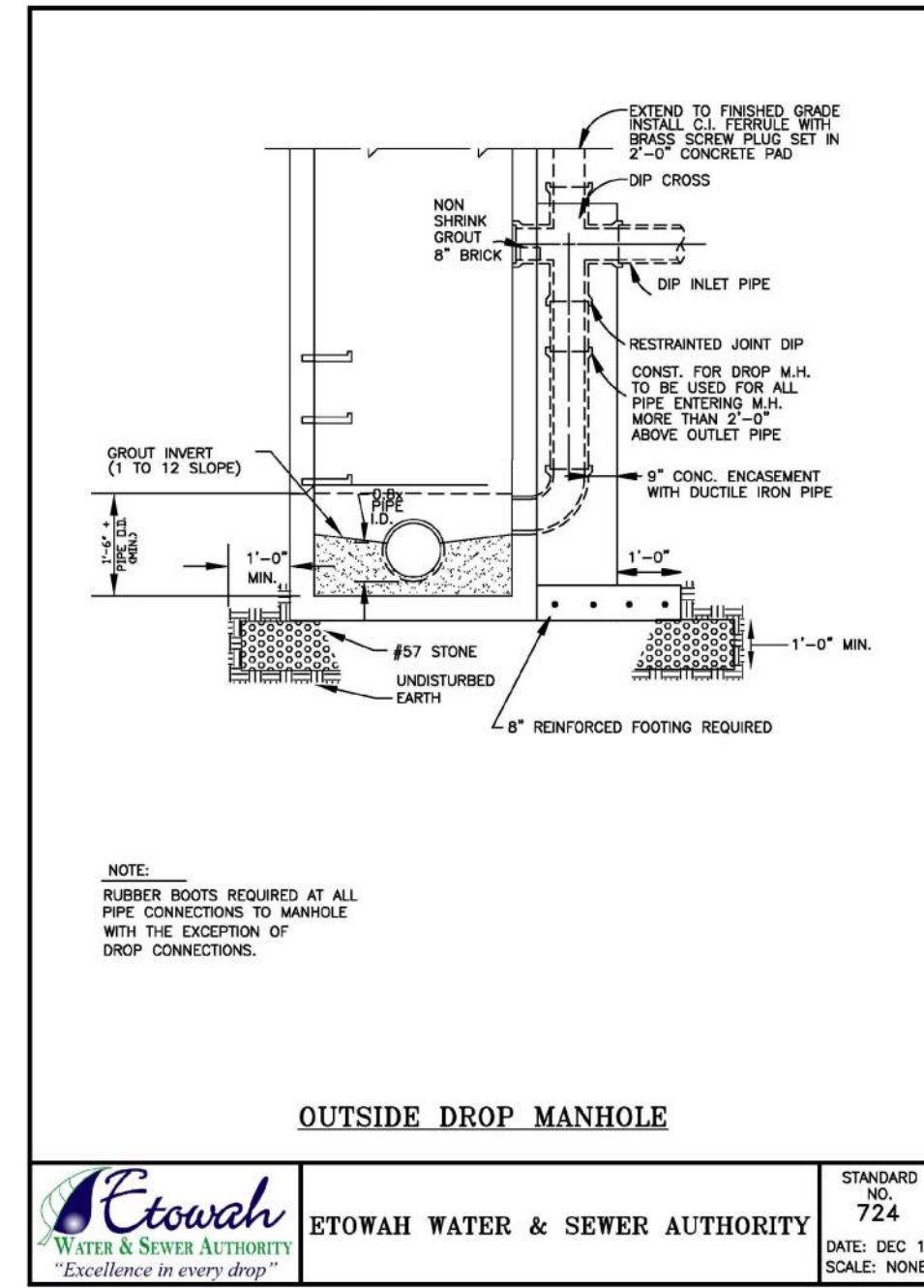
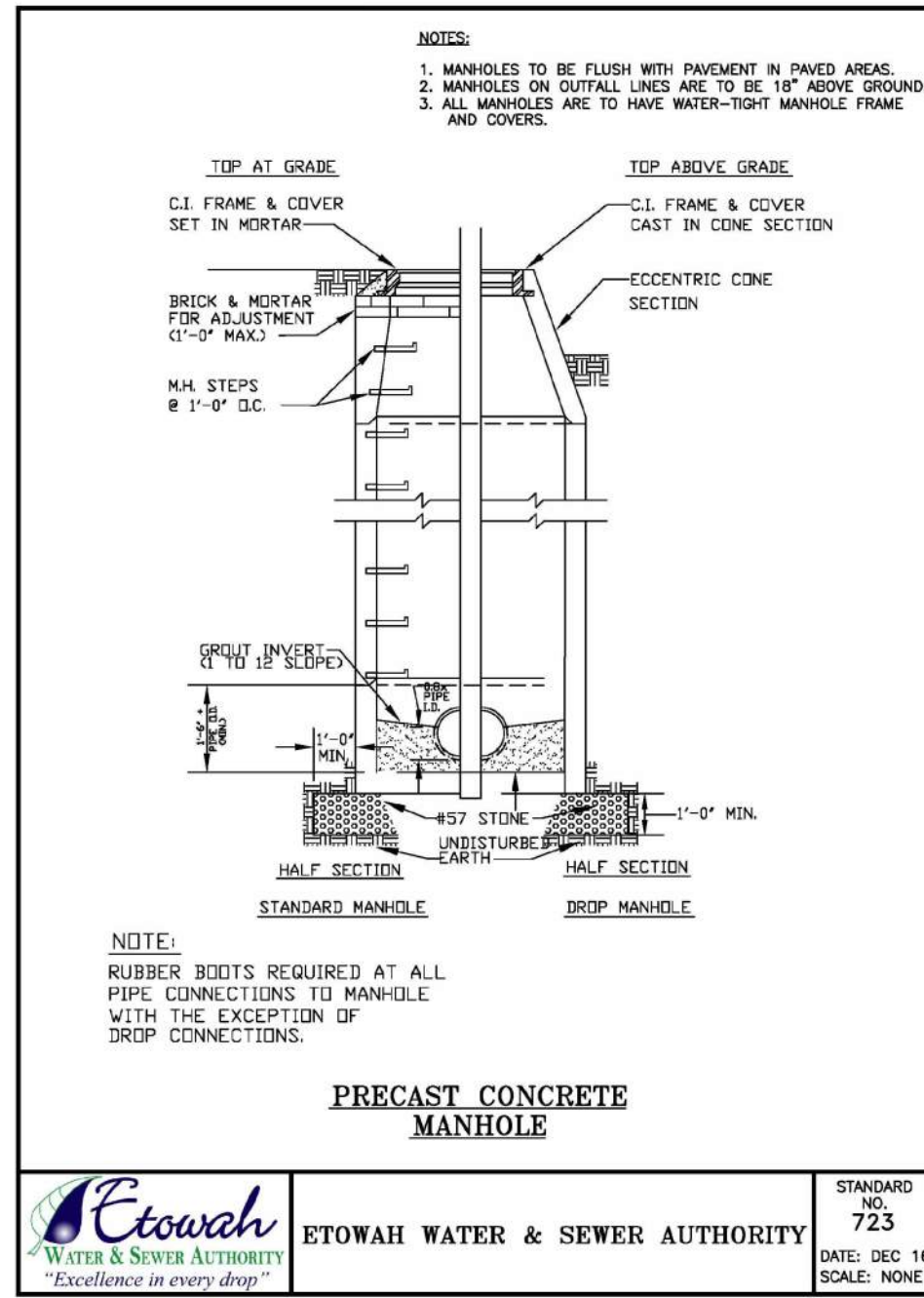
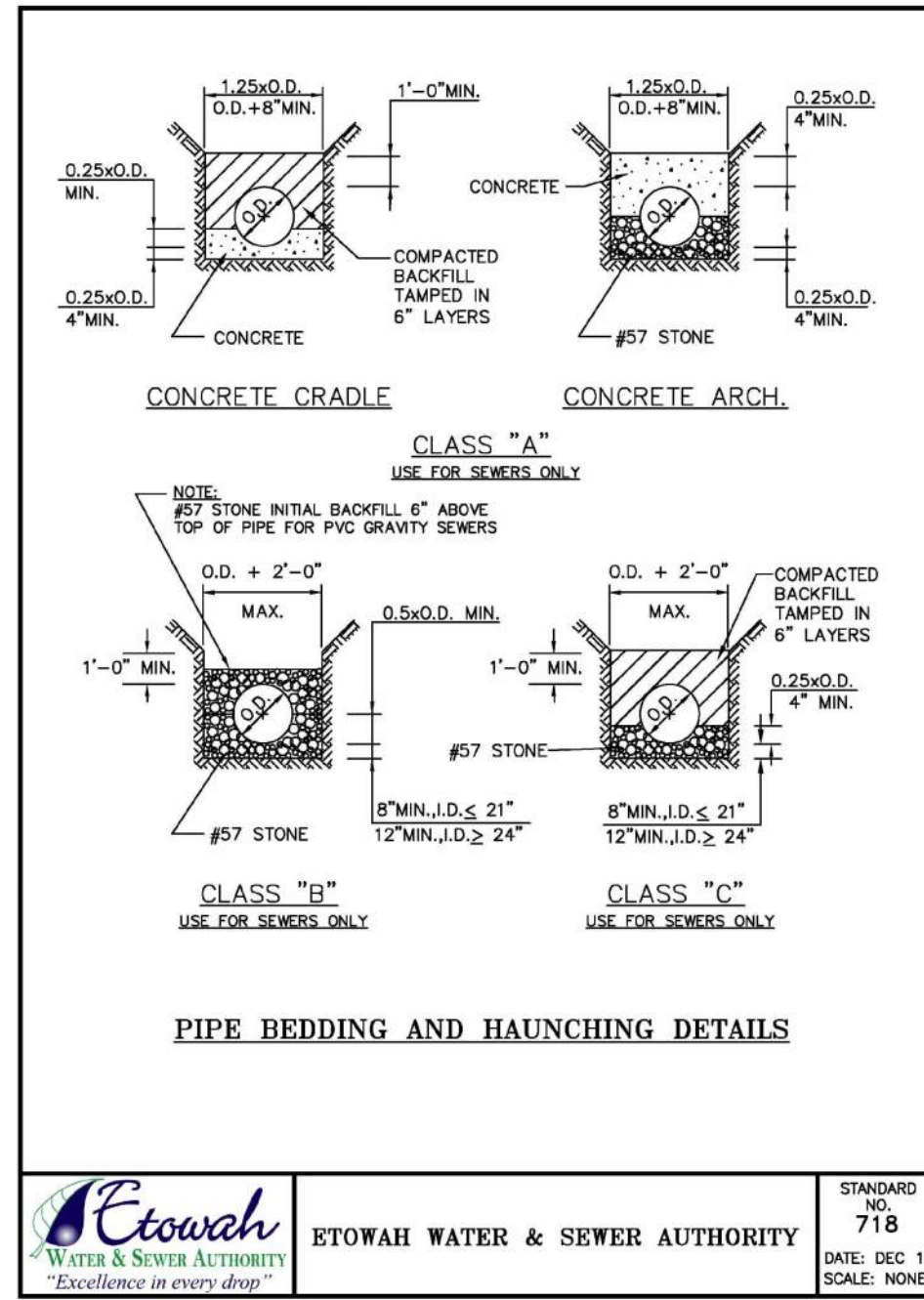
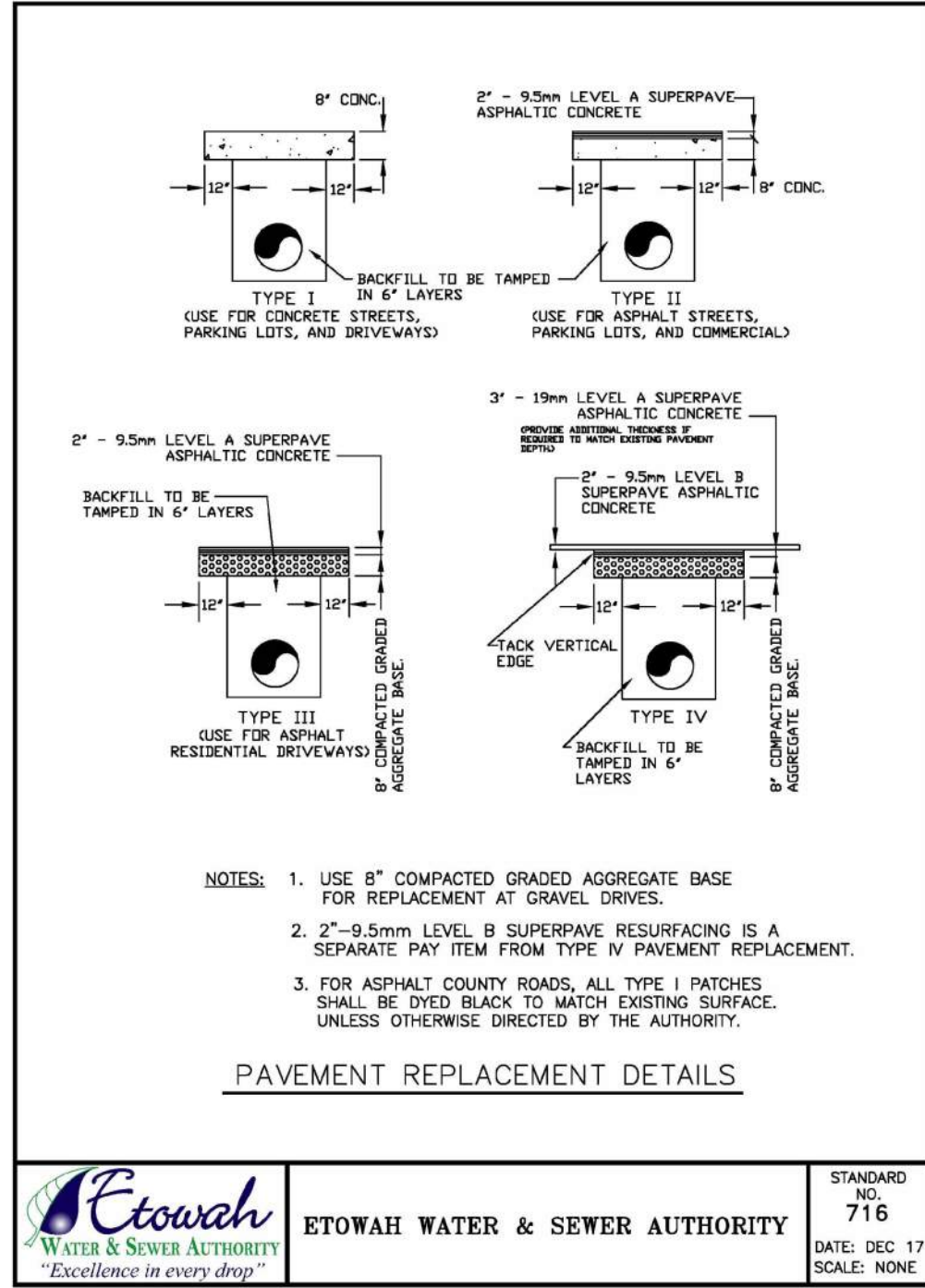
CONCRETE THRUST COLLAR. Includes diagrams of a concrete thrust collar and a table with columns for pipe dia, length, and thrust.

TYPICAL VALVE INSTALLATION. Includes diagrams of a typical valve installation and a valve stem extension detail.

DETAIL OF CONCRETE VALVE MARKER. Includes a diagram of a concrete valve marker and a table with columns for fitting size, depth, length, height, volume, and thrust.

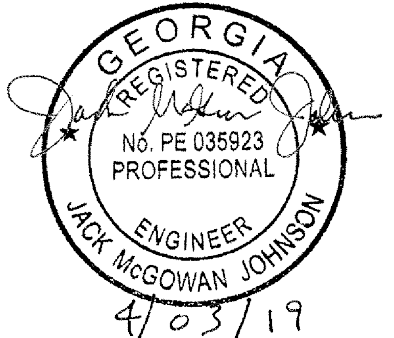
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SHEET NAME: UTILITY DETAILS SHEET NUMBER: C-6.1 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION
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Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE
2019-02-04 BID PACKAGE
2019-03-08 GRANT REVIEW DOCUMENTS
2019-04-03 COUNTY COMMENTS
2019-05-16 ADDENDUM 2

Revisions

No.	Date	Description

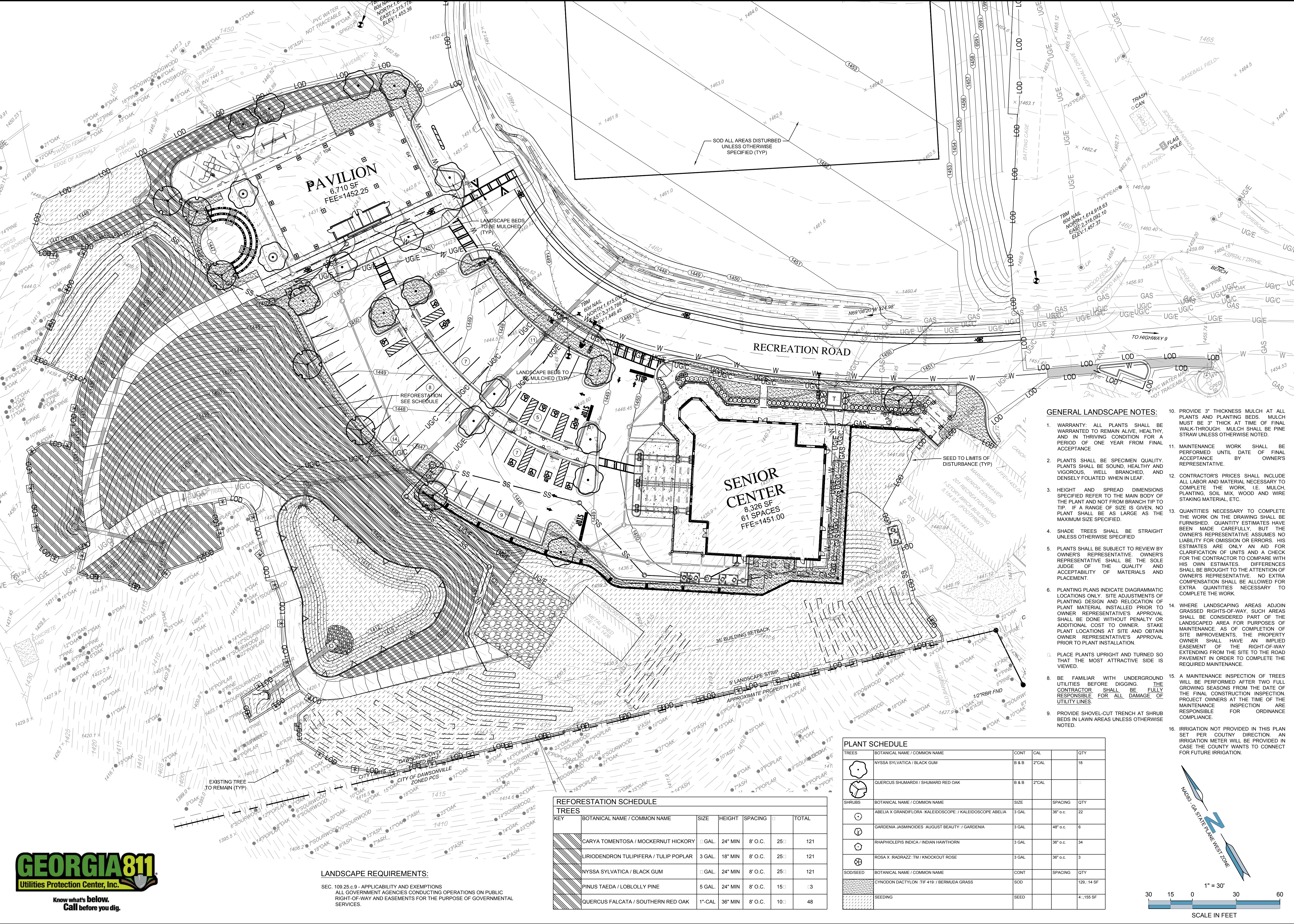
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 SHEET TITLE
UTILITY DETAILS
 SHEET NUMBER

C-6.1



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LANDSCAPE REQUIREMENTS:
 SEC. 109.25.c.9 - APPLICABILITY AND EXEMPTIONS
 ALL GOVERNMENT AGENCIES CONDUCTING OPERATIONS ON PUBLIC RIGHT-OF-WAY AND EASEMENTS FOR THE PURPOSE OF GOVERNMENTAL SERVICES.

REFORESTATION SCHEDULE

KEY	BOTANICAL NAME / COMMON NAME	SIZE	HEIGHT	SPACING	TOTAL
[Symbol]	CARYA TOMENTOSA / MOCKERNUT HICKORY	1 GAL	24" MIN	8' O.C.	25
[Symbol]	LIRIODENDRON TULIPIFERA / TULIP POPLAR	3 GAL	18" MIN	8' O.C.	25
[Symbol]	NYSSA SYLVATICA / BLACK GUM	1 GAL	24" MIN	8' O.C.	25
[Symbol]	PINUS TAEDA / LOBLOLLY PINE	5 GAL	24" MIN	8' O.C.	15
[Symbol]	QUERCUS FALCATA / SOUTHERN RED OAK	1" CAL	36" MIN	8' O.C.	10

PLANT SCHEDULE

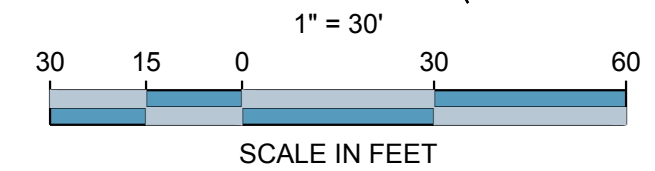
TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	QTY
[Symbol]	NYSSA SYLVATICA / BLACK GUM	8 B & B	2" CAL	16
[Symbol]	QUERCUS SHUMARDII / SHUMARD RED OAK	8 B & B	2" CAL	16

SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	SPACING	QTY
[Symbol]	ABELIA X GRANDIFLORA / KALEIDOSCOPE / KALEIDOSCOPE ABELIA	3 GAL	36" o.c.	22
[Symbol]	GARDENIA JASMINOIDES / AUGUST BEAUTY / GARDENIA	3 GAL	48" o.c.	6
[Symbol]	RHAPHOLEPIS INDICA / INDIAN HAWTHORN	3 GAL	36" o.c.	34
[Symbol]	ROSA X RADRAZZ TM / KNOCKOUT ROSE	3 GAL	36" o.c.	3

SOD/SEED	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY
[Symbol]	CYNODON DACTYLON / TIF 419 / BERMAUDA GRASS	SOD		129, 14 SF
[Symbol]	SEEDING	SEED		4, 155 SF

GENERAL LANDSCAPE NOTES:

- WARRANTY: ALL PLANTS SHALL BE WARRANTED TO REMAIN ALIVE, HEALTHY, AND IN THRIVING CONDITION FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.
- PLANTS SHALL BE SPECIMEN QUALITY. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF.
- 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.
- SHADE TREES SHALL BE STRAIGHT UNLESS OTHERWISE SPECIFIED.
- PLANTS SHALL BE SUBJECT TO REVIEW BY OWNERS REPRESENTATIVE. OWNERS REPRESENTATIVE SHALL BE THE SOLE JUDGE OF THE QUALITY AND ACCEPTABILITY OF MATERIALS AND PLACEMENT.
- PLANTING PLANS INDICATE DIAGRAMMATIC LOCATIONS ONLY. SITE ADJUSTMENTS OF PLANT MATERIAL INSTALLED PRIOR TO OWNER REPRESENTATIVE'S APPROVAL SHALL BE DONE WITHOUT PENALTY OR ADDITIONAL COST TO OWNER. STAKE PLANT LOCATIONS AT SITE AND OBTAIN OWNER REPRESENTATIVE'S APPROVAL PRIOR TO PLANT INSTALLATION.
- PLACE PLANTS UPRIGHT AND TURNED SO THAT THE MOST ATTRACTIVE SIDE IS VIEWED.
- BE FAMILIAR WITH UNDERGROUND UTILITIES BEFORE DIGGING. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGE OF UTILITY LINES.
- PROVIDE SHOVEL-CUT TRENCH AT SHRUB BEDS IN LAWN AREAS UNLESS OTHERWISE NOTED.
- PROVIDE 3" THICKNESS MULCH AT ALL PLANTS AND PLANTING BEDS. MULCH MUST BE 3" THICK AT TIME OF FINAL WALK-THROUGH. MULCH SHALL BE PINE STRAW UNLESS OTHERWISE NOTED.
- MAINTENANCE WORK SHALL BE PERFORMED UNTIL DATE OF FINAL ACCEPTANCE BY OWNERS REPRESENTATIVE.
- 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.
- 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 OWNERS REPRESENTATIVE. NO EXTRA COMPENSATION SHALL BE ALLOWED FOR EXTRA QUANTITIES NECESSARY TO COMPLETE THE WORK.
- 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.
- A MAINTENANCE INSPECTION OF TREES WILL BE PERFORMED AFTER TWO FULL GROWING SEASONS FROM THE DATE OF THE FINAL CONSTRUCTION INSPECTION. PROJECT OWNERS AT THE TIME OF THE MAINTENANCE INSPECTION ARE RESPONSIBLE FOR ORDINANCE COMPLIANCE.
- IRRIGATION NOT PROVIDED IN THIS PLAN SET PER COUNTY DIRECTION. AN IRRIGATION METER WILL BE PROVIDED IN CASE THE COUNTY WANTS TO CONNECT FOR FUTURE IRRIGATION.



DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

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DATE
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 SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L-1

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REGISTERED PROFESSIONAL ARCHITECT
LA001698
LANDSCAPE ARCHITECT
MICHAEL BULLARD

2/04/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

201 RECREATION RD
DAWSONVILLE, GA 30534

Revisions

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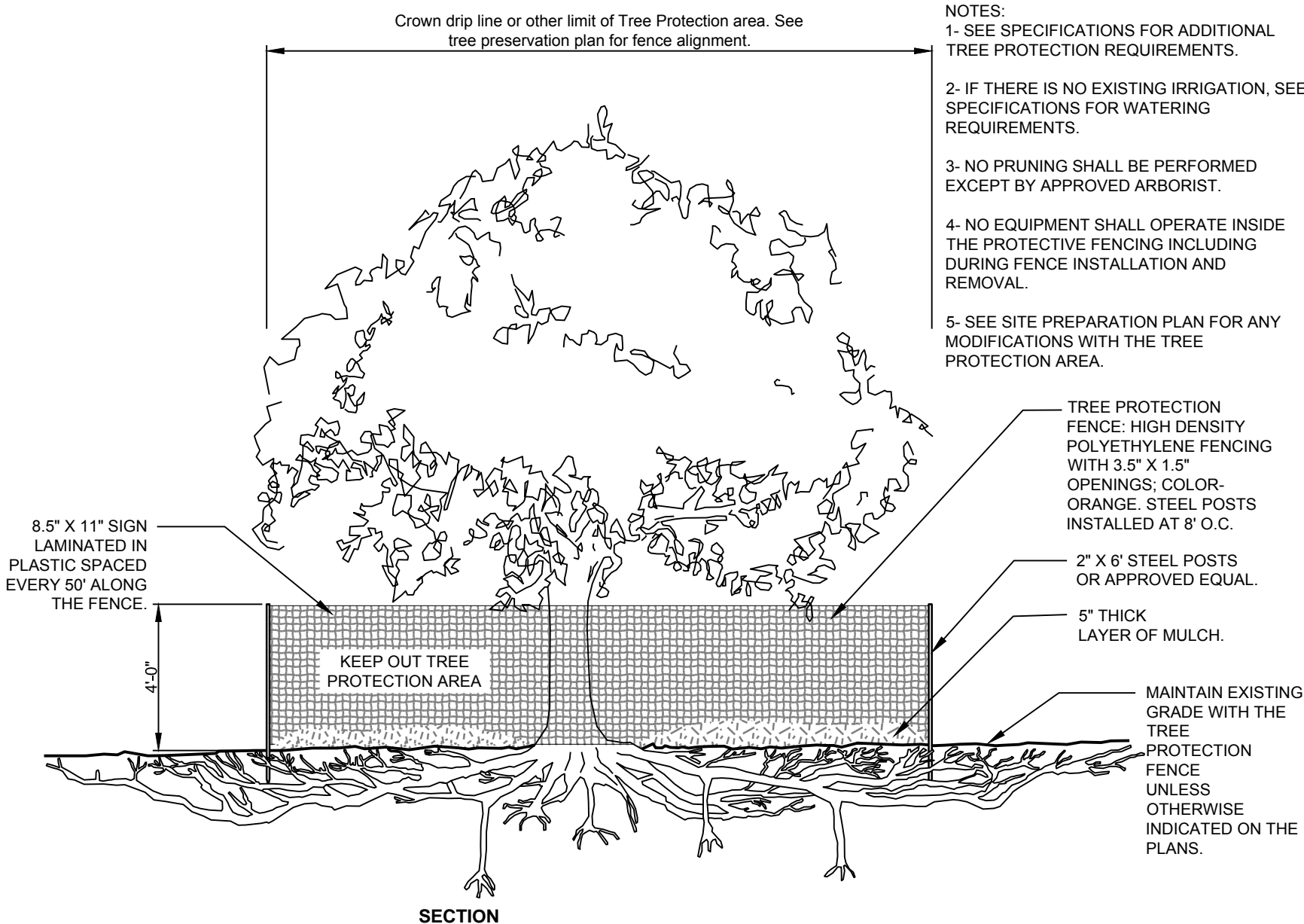
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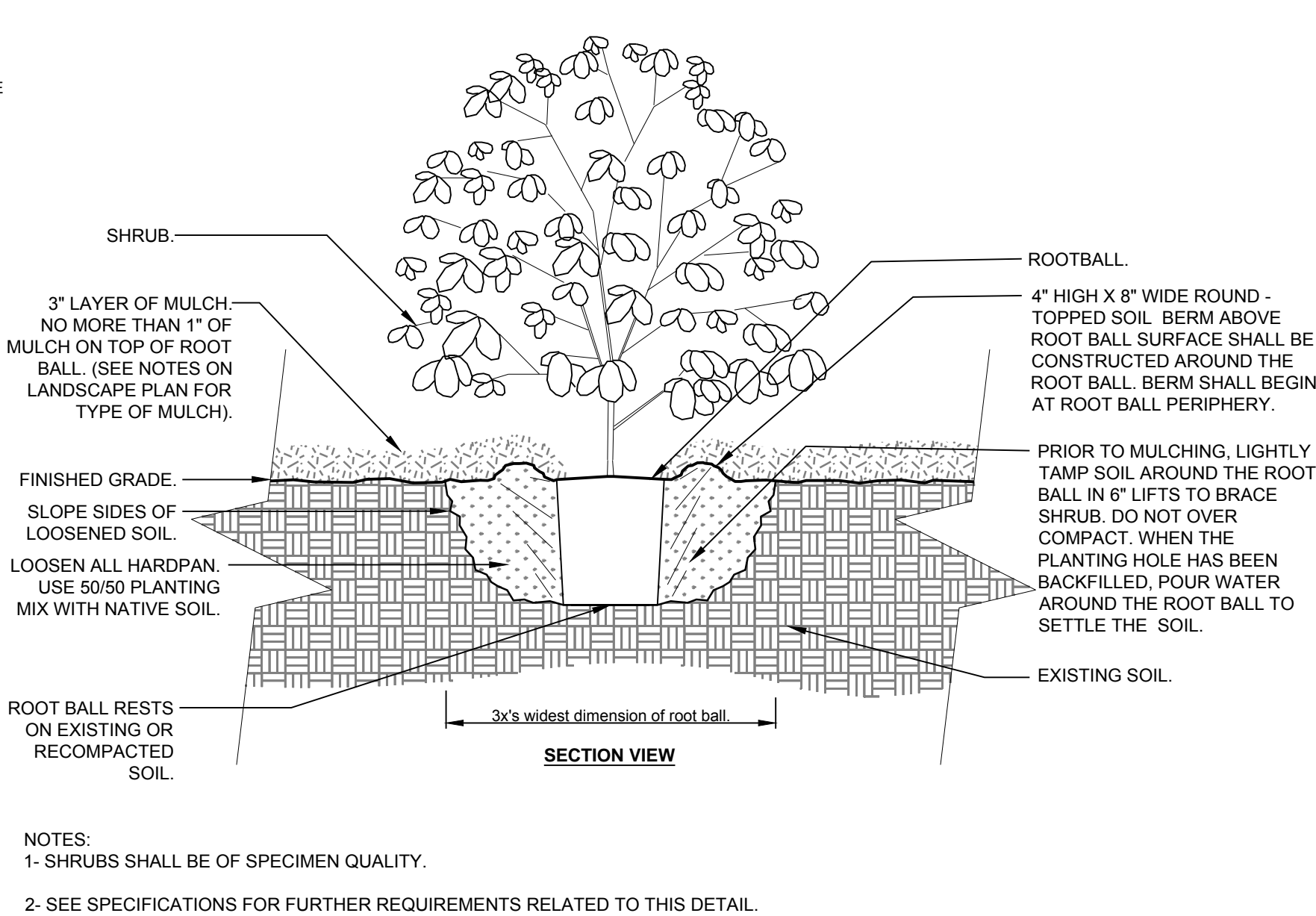
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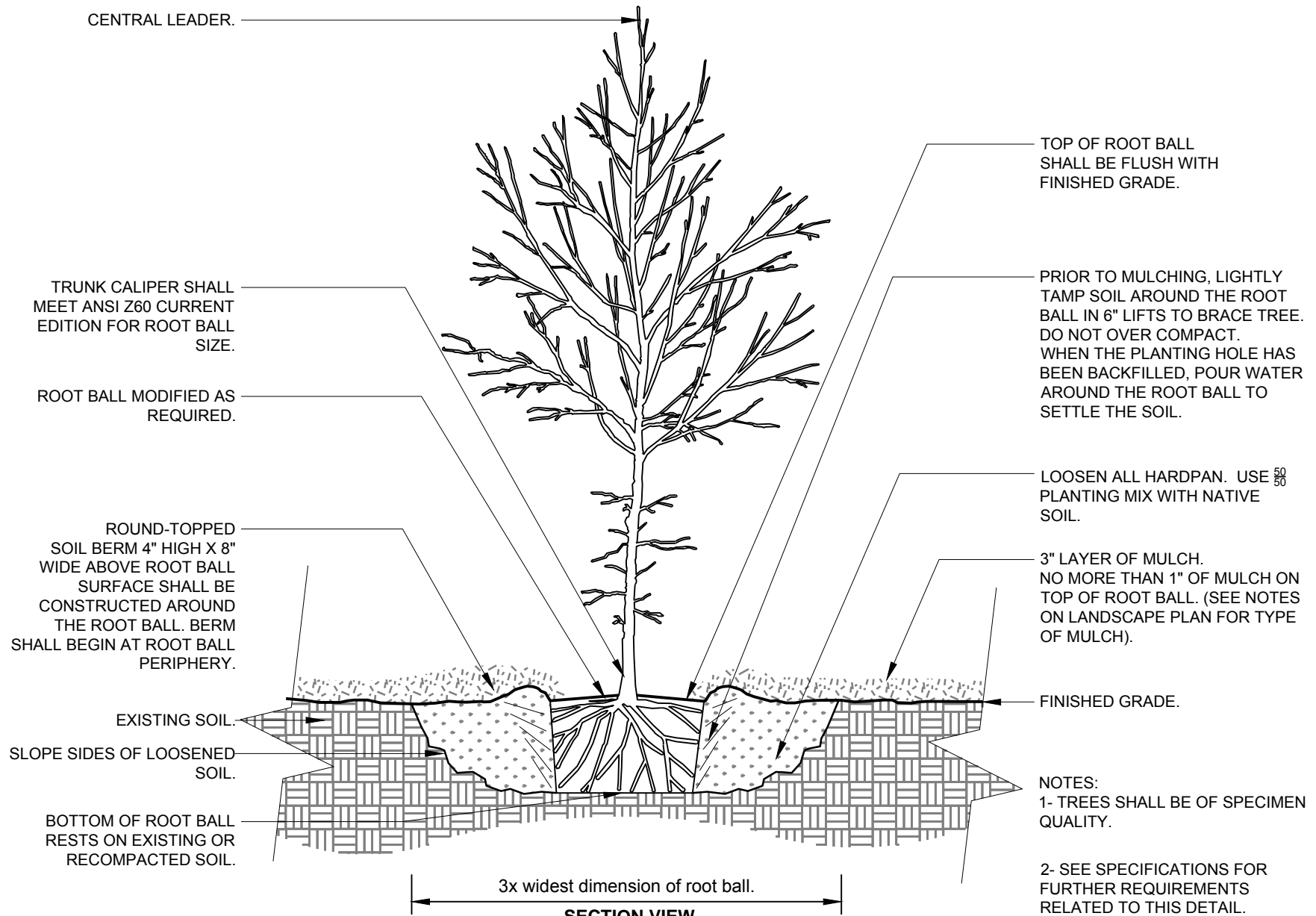
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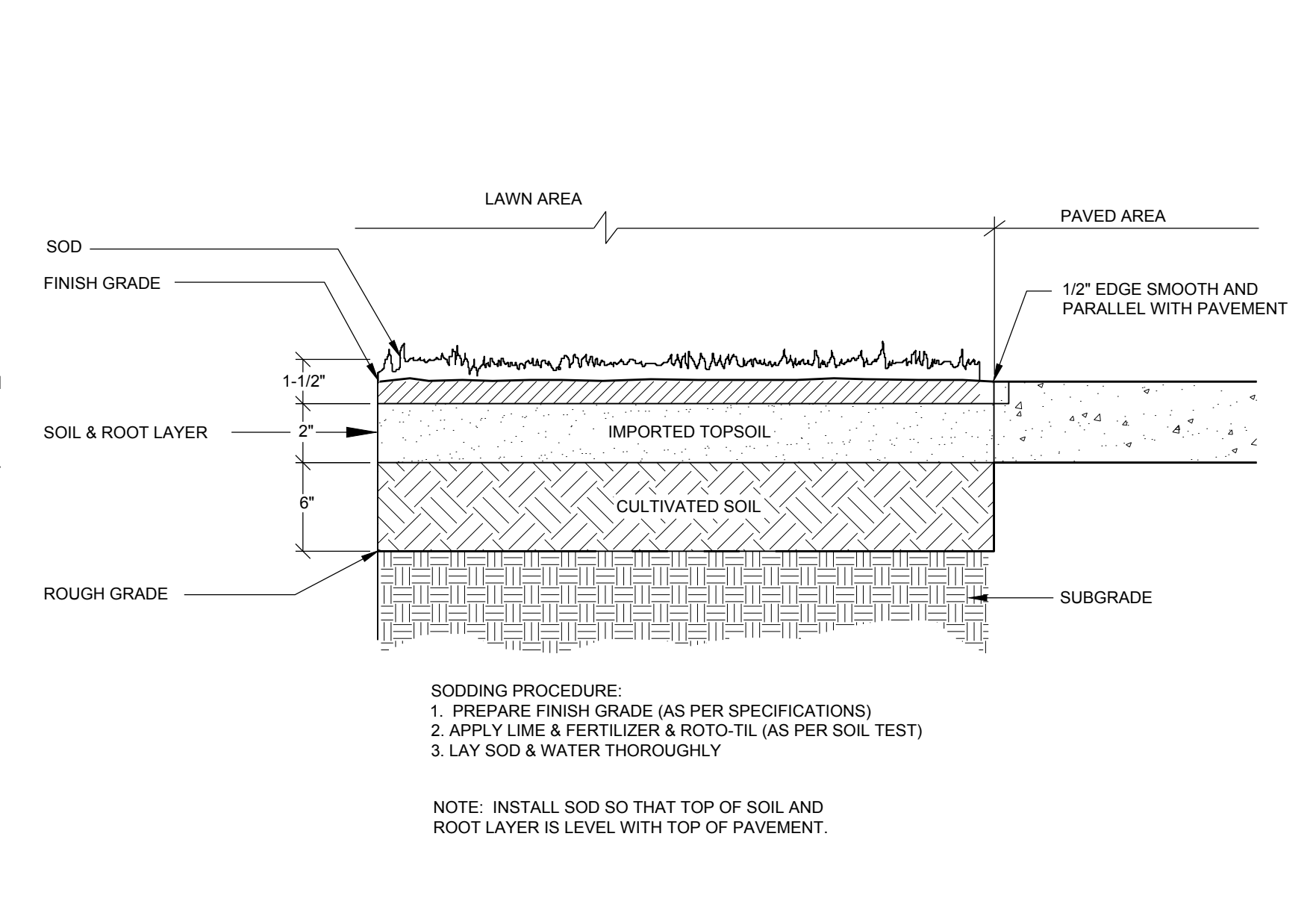
5 TREE PROTECTION
1/4" = 1'-0"



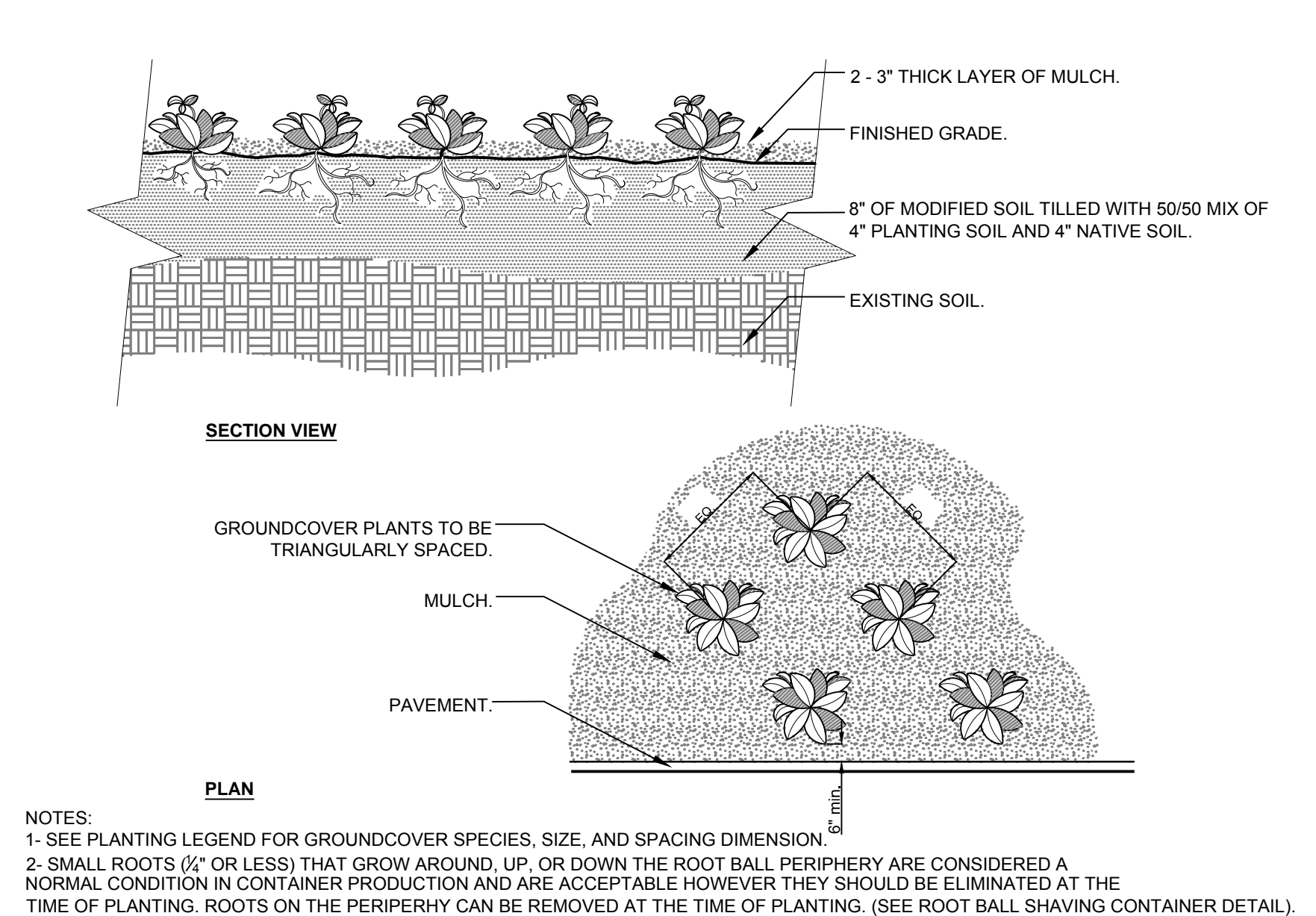
3 SHRUB PLANTING
3/4" = 1'-0"



4 TREE PLANTING
1/2" = 1'-0"



1 SOD INSTALLATION
NOT TO SCALE



2 GROUND COVER
3/4" = 1'-0"

SECTION 064116 - PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the contract, including General and Supplementary Conditions and Division 01 specifications Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

- 1. Plastic-laminate-faced architectural cabinets.
- 2. Cabinet Hardware
- 3. Wood furring, blocking, shims, and hanging strips for installing plastic-laminate-faced architectural cabinets that are not concealed within other construction.

B. Related Sections

- 1. Division 06 Section "Rough Carpentry" for wood furring, blocking and/ or shims required for installing cabinets.
- 2. Division 12 Section "Plastic Laminate Clad Countertops" for plastic laminate countertops and countertop installation.
- 3. Division 12 Section "Solid Surface Countertops" for solid surface countertops and countertop installation.
- 4. Division 12 Section "Quartz Agglomerate Countertops" for quartz countertops and countertop installation

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product; cabinet hardware, panel products, high-pressure decorative laminate and finishing materials and processing.

- 1. Include data for fire-retardant treatment from chemical-treatment manufacturer and certification by treating plant that treated materials comply with requirements.

B. Shop Drawings: For plastic-laminate-faced architectural cabinets.

- 1. Include plans, elevations, sections, and attachment details.
- 2. Show details at large scale
- 3. Show locations and sizes of furring, blocking and hanging strips, including concealed blocking and reinforcement specified in other sections
- 4. Show locations and sizes of cutouts and holes for plumbing fixtures and other items installed in cabinets.

C. Samples for Verification:

1. For each exposed product and for each color and texture specified; size not smaller than 8" x 10"
2. Exposed cabinet hardware and accessories, one unit for each type and finish.
3. PVC edgebanding to match plastic laminate.

D. Maintenance Data: required as part of "close-out" documents

~~1.4 INFORMATIONAL SUBMITTALS~~

~~A. Quality Standard Compliance Certificates: AWI Quality Certification Program~~

1.5 QUALITY ASSURANCE

A. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.

1.6 DELIVERY, STORAGE AND HANDLING

A. Do not deliver cabinets until painting and similar operations that could damage cabinets have been completed in installation areas. If cabinets must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Project Conditions" Article

1.7 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install cabinets until building is enclosed, wet work is complete and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

B. Field measurements: Where cabinets are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrications and indicated measures on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1. Locate concealed framing, locking, and reinforcements that support cabinets by field measurements before being enclosed and indicated measurements on Shop Drawings.
2. Established Dimensions: Where field measurements cannot be made without delaying the work, establish dimensions and proceed with fabricating cabinets without field measurements. Provide allowance for trimming at site and coordinate construction to ensure that actual dimensions correspond to established dimensions.

1.8 COORDINATION

A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that cabinets can be supported and installed as indicated.

PART 2 - PRODUCTS

2.1 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

- A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of cabinets indicated for construction, finishes, installation, and other requirements.
 - ~~1. Provide inspections of fabrication and installation together with labels and certificates from AWI certification program indicating that woodwork complies with requirements of grades specified.~~
- B. Type of Construction: Frameless
- C. Door and Drawer-Front Style: Flush overlay.
 - 1. Reveal Dimension: As indicated
- D. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or if not indicated, as required by quality standard.
 - 1. Laminate selections as indicated on drawings. Refer to Sheet I-001 Finish Legend & Key Notes.
- E. Laminate Cladding for Exposed Surfaces:
 - 1. Horizontal Surfaces: Grade HGS
 - 2. Vertical Surfaces: Grade VGS
 - 3. Edges: PVC edge banding, 0.12 inch (3 mm) thick, matching laminate in color, pattern, and finish as manufactured by Charter Industries, Basis of Design
 - 4. Pattern Direction: Vertically for drawer fronts, doors, and fixed panels
- F. Concealed Backs of Panels with Exposed Plastic-Laminate Surfaces: High-pressure decorative laminate, NEMA LD 3, Grade BKL.
- G. Drawer Construction: Fabricate with exposed fronts fastened to subfront with mounting screws from interior of body.
 - 1. Join subfronts, backs, and sides with glued dovetail joints.
- H. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the following requirements:
 - 1. As indicated on Drawings; refer to Sheet I-001 Finish & Millwork Key Notes & Legends

2.2 WOOD MATERIALS

- A. General: Provide materials that comply with requirements of AWI's quality standard for each type of woodwork and quality grade specified, unless otherwise indicated.
 - 1. Fabricate cabinets free of urea formaldehyde
- B. Wood Products: Comply with the following:
 - 1. Hardboard: AHA A135.4
 - 2. Medium-Density Fiberboard: ANSI A208.2, Grade MD, made with binder containing no urea formaldehyde.
 - 3. Particleboard: ANSI A208.1, Grade M-2, made with binder containing no urea formaldehyde.
 - 4. Softwood Plywood: DOC PS 1, Medium Density Overlay.

2.3 CABINET HARDWARE AND ACCESSORIES

- A. General: Provide cabinet hardware and accessory materials associated with architectural cabinets for a complete cabinet installation. Specific items below shall be included except where specifically indicated otherwise on drawings.
- B. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, 135 degrees of opening, self-closing.
- C. Back-Mounted Pulls: BHMA A156.9, B02011.
- D. Wire Pulls: Back mounted, solid metal, 4 inches (100 mm) long, 5/16 inch (8 mm) in diameter.
- E. Shelf Rests: BHMA A156.9, B04013; metal.
- F. Drawer Slides: BHMA A156.9, B05091.
 - 1. Typical slides: Heavy Duty (Grade 1HD-100 and Grade 1HD-200): Side mounted; full-over travel-extension type; zinc-plated steel ball-bearing slides.
 - 2. Box Drawer Slides: Grade 1HD-100; for drawers not more than 6 inches (150 mm) high and 24 inches (600 mm) wide.
- G. Door Locks: BHMA A156.11, E07121.
- H. Drawer Locks: BHMA A156.11, E07041.
- I. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with BHMA A156.18 for BHMA finish number indicated.
 - 1. Satin Stainless Steel: BHMA 630.
- J. For concealed hardware, provide manufacturer's standard finish that complies with product class requirements in BHMA A156.9.
- K. Toe Kick Finish: As indicated on drawings

- L. Toe Kick Support: At accessible cabinet doors, if any, provided galvanized steel or aluminum “Z” Channel for attachment to bottom inside of cabinet doors. Door to receive plastic laminate to match base cabinet unless otherwise noted.
- M. Grommets for Cable Passage: size as indicated on drawings, molded plastic grommets and matching plastic caps with slots for wire passage.

2.4 MISCELLANEOUS MATERIALS

- A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber kiln-dried to less than 15 percent moisture content.
- B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls and at floors.
- C. Adhesive for Bonding Plastic Laminate: Urea Formaldehyde free
 - 1. Adhesive for Bonding Edges: as recommended by manufacturer

2.5 FABRICATION

- A. Complete fabrication, including assembly and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
- B. Shop-cut openings to maximum extent possible to receive hardware, appliances, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Before installation, condition cabinets to average prevailing humidity conditions in installation areas.
- B. Before installing cabinets, examine shop-fabricated work for completion and complete work as required, including removal of packing.

3.2 INSTALLATION

- A. Before installation, condition cabinets to humidity conditions in installation areas for not less than 24 hours.

- B. Grade: Install cabinets to comply with quality standard grade of item to be installed.
- C. Assemble cabinets and complete fabrication at Project Site to comply with requirements for fabrication in Part 2, to extent that is was not completed in shop.
- D. Anchor cabinets to anchors or blocking built in or directly attached to substrates. Secure with wafer-head cabinet installation screws.
- E. Install cabinets with no more than 1/8 inch in 96-inch (3 mm in 2400-mm) sag, bow, or other variation from a straight line.
 - 1. Scribe and cut cabinets to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
 - 2. Install cabinets without distortion so doors and drawers fit openings and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
 - 3. Fasten wall cabinets through back, near top and bottom, at ends and not more than 16 inches (400 mm) o.c. with No. 10 wafer-head screws sized for 1-1/2-inch (37-mm) penetration into wood framing, blocking, or hanging strips.

3.3 ADJUSTING AND CLEANING

- A. Repair damaged and defective cabinets, where possible, to eliminate functional and visual defects; where not possible to repair, replace cabinets. Adjust joinery for uniform appearance.
- B. Clean, lubricate, and adjust hardware.
- C. Clean cabinets on exposed and semi exposed surfaces. Touch up shop-applied finishes to restore damaged or soiled areas

END OF SECTION 064116