



PLAN REVIEW COMMENTS FOR DP-06-24-019190

Town of Bluffton
 Department of Growth Management
 20 Bridge Street P.O. Box 386 Bluffton, South Carolina 29910
 Telephone 843-706-4522

Plan Type:	Development Plan	Apply Date:	06/18/2024
Plan Status:	Active	Plan Address:	4 Parkside Drive BLUFFTON, SC 29910
Case Manager:	Dan Frazier	Plan PIN #:	R610 022 000 1073 0000
Plan Description:	<p>A request by Joel C. Taylor of Tenet Healthcare, on behalf of Parcel C5 LLC, for approval of a Preliminary Development Plan. The project consists of a free-standing emergency department and medical offices in a single building to include approximately 50,250 SF. Proposed drives, parking, landscaping, utilities and supporting infrastructure. The property is zoned Buckwalter PUD and consists of approximately 10.9 acres identified by tax map numbers R610 022 000 1073 0000, R610 022 000 1081 0000, R610 022 000 1082 0000, R610 022 000 1084 0000 and located on the southeast corner of Buckwalter Parkway and Parkside Drive within the Buckwalter Commons.</p> <p>Status: The preliminary development plan application will be heard at the July 24, 2024 meeting of the Development Review Committee.</p>		

Technical Review

Submission #: 1 Received: 06/18/2024 Completed: 07/18/2024

Reviewing Dept.	Complete Date	Reviewer	Status
Watershed Management Review DRC	07/12/2024	Samantha Crotty	Revisions Required

Comments:

- 220 trees were entered into the compliance calculator for SWRV credit. If the area of these trees is considered "Forest Cover/Open Space" in the post-development land cover totals, they must be removed from the tree credit section. Revise accordingly.
- Clarify if the "infiltration" BMP in the compliance calculator are the dry detention basins. Dry detention basins are considered Storage Practices per SWDM 4.11. Revise compliance calculator to reflect this.
- Provide proposed contours on the grading plan.
- Remove curb cuts from dumpster pads.
- Provide missing surface coverage data on sheet C002, and pond 2 spillway & dry detention basin dimension data details on sheet C602.
- Frame elevations on dry detention basins 1, 2, and 3 are higher than the top of bank.
- At time of stormwater submittal, provide a 10-year exhibit.

Beaufort Jasper Water and Sewer Review	07/18/2024	Matthew Michaels	Approved with Conditions
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Comments:

- Pending submittal of the project by the engineer of record to BJWSA's Design Review Team in accordance with the Development Policy and Procedure Manual.

Fire Department Review	07/18/2024	Dan Wiltse	Approved with Conditions
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Comments:

- Relocate the Fire Department Connection to provide direct access that is not obstructed by parking.

Planning Review - Principal	07/18/2024	Dan Frazier	Approved with Conditions
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Comments:

1. The Buckwalter Parkway Access Management Plan prepared for Beaufort County calls for a traffic signal to be installed at the intersection of Buckwalter Parkway and Parkside Drive, and for the access to the parkway at the Ludlow Street intersection to become a right-in/right-out access only. Coordinate with Beaufort County Engineering on timing and responsibilities with regard to these planned transportation improvements.

Building Safety Review	07/18/2024	Marcus Noe	Approved
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Planning Commission Review	07/18/2024	Angie Castrillon	Approved
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Planning Review - Address	07/18/2024	Diego Farias	Approved
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Police Department Review	07/18/2024	Bill Bonhag	Approved
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Transportation Department Review	06/18/2024	Megan James	Approved
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Comments:

No comments

Plan Review Case Notes:

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Design Team

Geotechnical Engineer:
Terracon
912.629.4000

Landscape Architect:
Witmer Jones Keefer Ltd.
843.757.7411

Architect:
e4h Environments for Health
888.781.8441

Land Surveyor:
Atlas Surveying, Inc.
843.645.9277

Site Development Plans
for
Buckwalter Parkway Healthcare

Usage: commercial

Town of Bluffton, South Carolina

Tax Map #: R610 022 000 1073 0000

R610 022 000 1083 0000

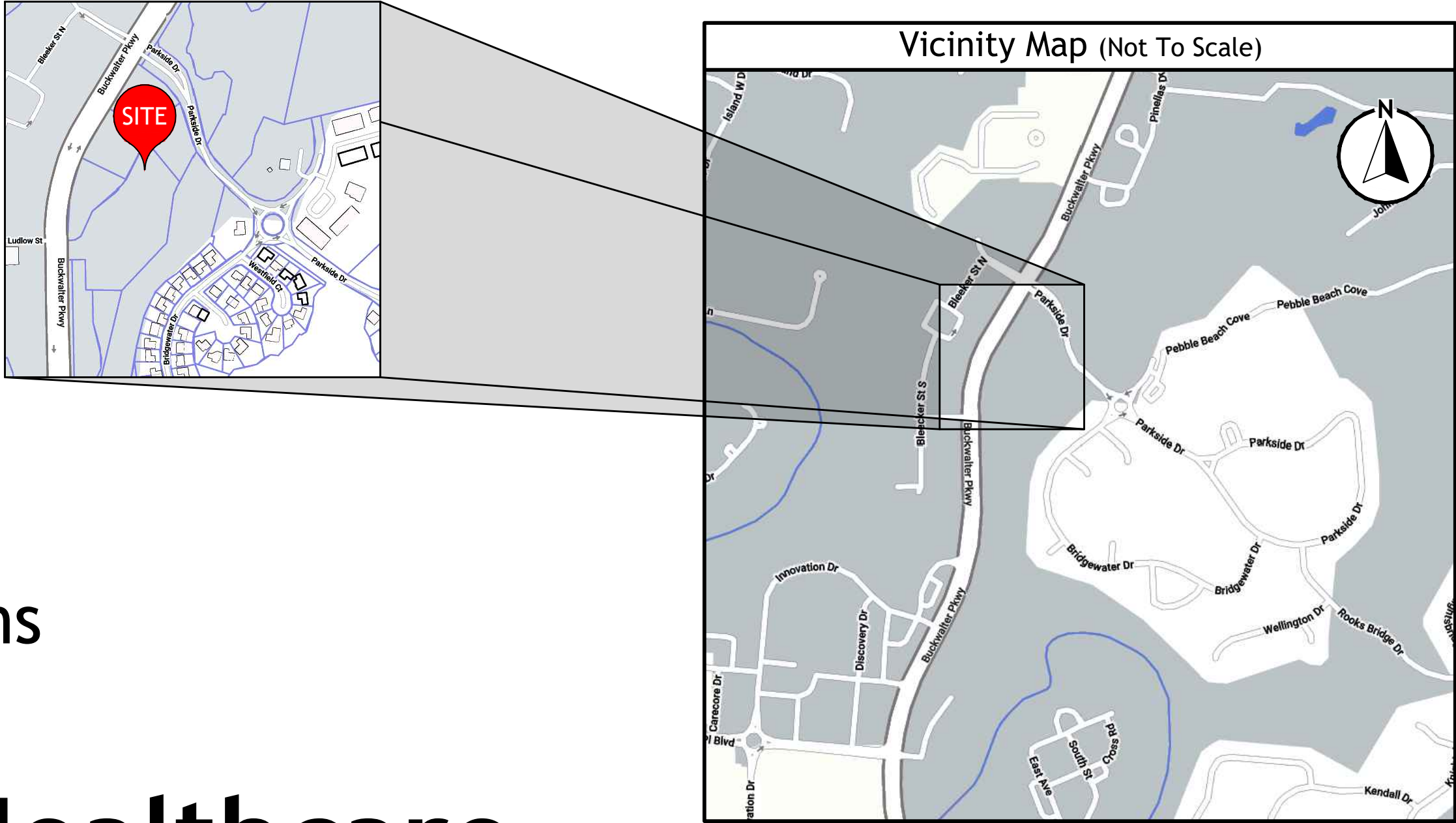
R610 022 000 1081 0000

R610 022 000 1082 0000

R610 022 000 1084 0000

2 Parkside drive

GIS coord: N32° 16' 49", W80° 54' 43"

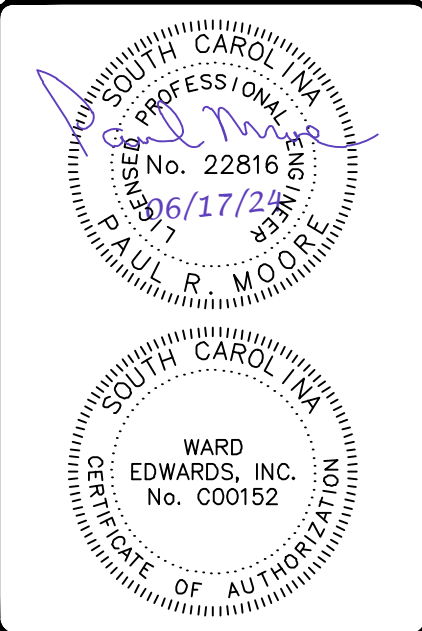


Release Schedule

Rel #	Description	Date
A.	Released for Permitting	05-13-24
B.	Released for Permitting	06-17-24

Schedule of Drawings

Sht No.	Description
C001	Cover Sheet
C002	Construction Notes
C003	Phasing Plan
C101	Existing Conditions Plans
C201	Initial Erosion Control Plans
C202	Initial Erosion Control Details
C301	Clearing & Demolition Plans
C401	Site Layout Plans
C501	Grading Plans
C601	Drainage Plans
C602-C604	Drainage Plans Details
C701	Utility Plans
C702-C704	Utility Details
C705	Utility Profiles
C801	Intermediate & Final Erosion Control Plans
C802	Intermediate & Final Erosion Control Details
C901	Paving Plans
C902-C903	Paving Details
C1001	ADA Accessible Route Plan



No.	Description	Date
8		
7		
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1		

**Ward Edwards**
ENGINEERING

119C Palmetto Way
P.O. Box 381, Bluffton,
South Carolina 29910

(843) 837-5250
www.WardEdwards.com

Buckwalter Parkway Healthcare
Town of Bluffton, South Carolina

Prepared for
e4h Environments for Health Architecture

Cover Sheet

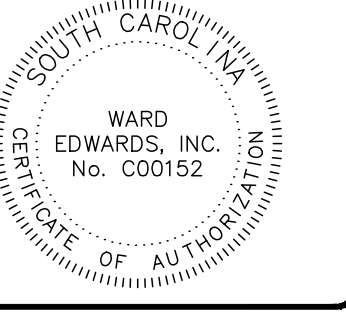
Vert. Datum:	NAVD88
Horiz. Datum:	NAD83

Project #:	230640
Date:	06/17/24
Designed by:	LYJ
Checked by:	CPB

Not to Scale

C001

Project Name
BJWSA Project #: 2024-XXX



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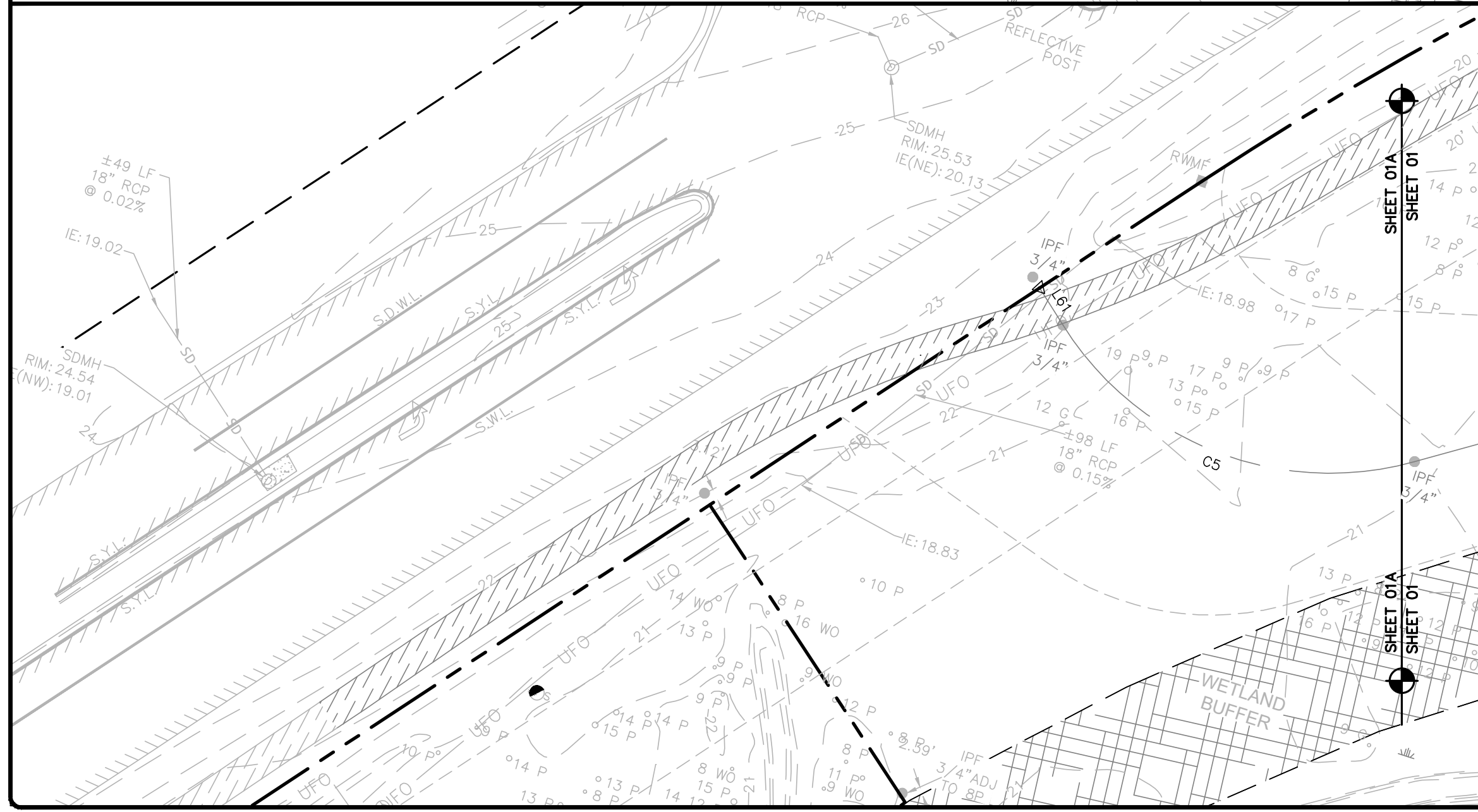
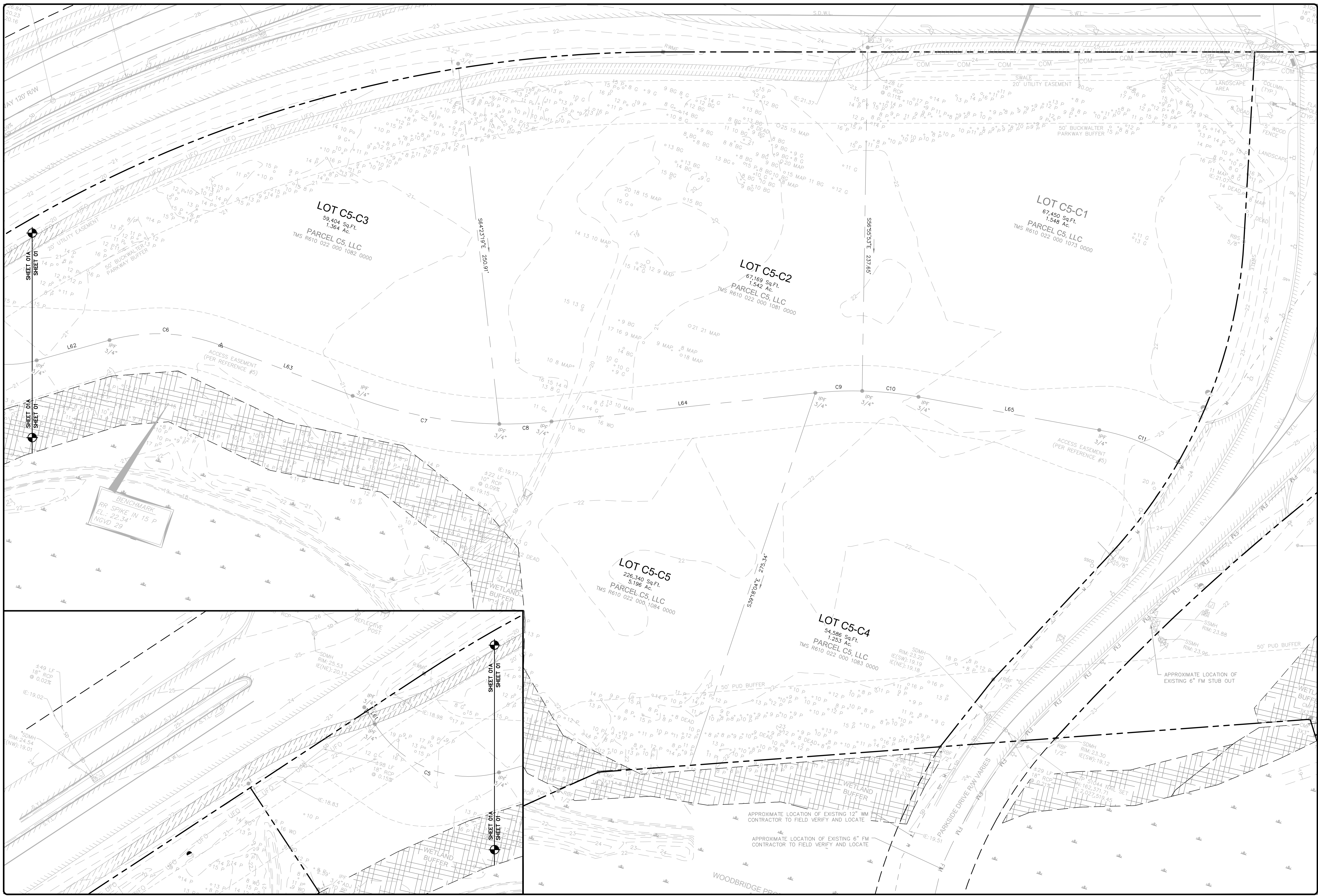
This is a detailed site plan for a proposed development, showing two main phases: Phase 1 and Phase 2. The plan includes numerous annotations for elevations, distances, and specific features.

Phase 1: A large, irregularly shaped area on the left side of the plan. It includes a 'BRALLE PAD (TYP)' and a '50' PUD BUFFER'. A benchmark is located at 'RR SPIKE IN 15' P' with an elevation of 22.34' and a date of 'NOV 29'.

Phase 2: A more rectangular area on the right side of the plan. It includes a 'MOB 2 STORY 40,000 SQ. FT. F.F.E. 23.00' and a 'FSED 1 STORY 10,290 SQ. FT. F.F.E. 23.00'. A benchmark is located at 'PK NAIL SET' with an elevation of 24.72' and a date of 'NOV 29'.

The plan also shows existing infrastructure like 'GAS' lines and 'BRALLE PAD (TYP)'. It includes various utility easements and setbacks, such as '20' UTILITY EASEMENT' and '50' PUD BUFFER'. The plan is surrounded by a '50' PUD BUFFER' and includes various utility easements and setbacks.

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Professional Engineer Seal for Ward Edwards, Inc. No. 22816, dated 06/17/24.

No.	Description	Date
8		
7		
6		
5		
4		
3		
2		
1		

Ward Edwards Engineering
119c Palmetto Way
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(843) 837-5250
www.WardEdwards.com

Buckwalter Parkway Healthcare
Town of Bluffton, South Carolina

Prepared for
e4h Environments for Health Architecture

Existing Conditions Plan

Vert. Datum:	NAVD88
Horiz. Datum:	NAD83
Project #:	230640
Date:	06/17/24
Designed by:	LYJ
Checked by:	CPB

North arrow pointing towards the top right.

Scale: 1" = 30'

C101

Permit Set - NOT FOR CONSTRUCTION

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Limits of Disturbance: NPDES	
Erosion Prevention	
Land Grading:	L6 OR
Surface Roughening:	
Topsoiling:	
Temporary Seeding:	TS
Mulching:	M
ECB or TRM:	
FGM:	FGM
BFM:	BFM
Permanent Seeding:	PS
Sodding:	SO
Riprap:	
Outlet Protection:	RIPRAP ECB or TRM
Dust Control:	DC
Polyacrylamide (PAM):	PAM

Sediment Control	
Sediment Basin:	
Temporary Sediment Trap:	
Rock Sediment Dike:	
Rock Check Dam:	OR
Sediment Tube:	
Silt Fence:	
Reinforced Silt Fence:	
Type A-Fabric Inlet Protection:	A
Type A-Sediment Tube Inlet Protection:	S
Type B - Wire Mesh and Stone Drop Inlet Protection:	B
Type C - Block and Gravel Inlet Protection:	C
Type D - Rigid Inlet Filters:	D
Type E - Surface Course Curb Inlet Filter:	E
Type F - Inlet Tube:	F
Type FC - Filter Bag Curb Inlet Protection:	FC
Type FB - Filter Bag Grate Inlet Protection:	FB
Concrete Washout	CWS

No.	8	7	6	5	4	3	2	1
Description								
Plan Revisions								

Ward Edwards
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Buckwalter Parkway Healthcare
Town of Bluffton, South Carolina

e4h Environments for Health Architecture

Initial Erosion Control Plan

Vert. Datum: NAVD88
Horiz. Datum: NAD83

Project #: 230640
Date: 06/17/24
Designed by: LYJ
Checked by: CPB

Scale: 1" = 30' Feet

C201

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NOTES:

- ALL TREES DESIGNATED TO BE SAVED SHALL BE PROTECTED BY FENCING.
- INSTALL TREE PROTECTION FENCE TO RADIUS INDICATED IN TABLE UNLESS OTHERWISE INDICATED ON PLANS.
- WARNING SIGNS TO BE MADE OF DURABLE WATERPROOF MATERIAL.
- ALL WARNING SIGN LETTERS TO BE AT LEAST 3 INCHES HIGH, CLEARLY LEGIBLE AND SPACED A MINIMUM OF ONE EVERY 40 FT. FOR PROTECTION AREAS LESS THAN 40 FT IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER SIDE.
- THE SIZE OF EACH WARNING SIGN MUST BE A MINIMUM OF 2' x 2' AND BE VISIBLE FROM BOTH SIDES OF THE FENCE.
- ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
- THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE BOUNDARIES OF THE TREE PROTECTION FENCING.
- TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. FENCING MUST REMAIN UPRIGHT AND SLACK FREE.

JURISDICTION	RADIUS OF CIRCULAR TPZ
BEAUFORT COUNTY BEAUFORT CO. DEV. CODE 5.11.100	1 FOOT PER INCH OF TRUNK DBH
TOWN OF BLUFFTON UDO 5.3.3	1.5 FEET PER INCH OF TRUNK DBH OR 10 FEET WHICHEVER IS GREATER
TOWN OF HILTON HEAD LMO 16-6-104, J-3A	FENCING AT DRIP LINE FOR ALL TREES TO BE RETAINED
CITY OF BEAUFORT BEAUFORT CODE 5.3.3	0.5 FOOT PER INCH OF TRUNK DBH
JASPER COUNTY ZONING ORD. ART. 13.5	FENCING AT DRIP LINE FOR ALL TREES TO BE RETAINED
TOWN OF PORT ROYAL PORT ROYAL CODE 5.7.70	1.5 FEET PER INCH OF TRUNK DBH OR 5 FEET WHICHEVER IS GREATER
CITY OF HARDEEVILLE MZ&DO 4.8, F-3	FENCING AT DRIP LINE FOR ALL TREES TO BE RETAINED

DBH = TRUNK DIAMETER AT BREAST HEIGHT

TREE PROTECTION FENCE

DETAIL #02915-008

ADHESIVE	WATER DILUTION	NOZZLE TYPE	APPLICATION (GAL./ACRE)
ANIONIC ASPHALT EMULSION	7:1*	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1*	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1*	FINE SPRAY	300

*USE MANUFACTURER'S RECOMMENDATIONS WHEN AVAILABLE.

MAINTENANCE:

- PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.
- SUPPLEMENT SURFACE COVERING AS NEEDED.

INSTALLATION:

- APPLY ACCORDING TO APPROVED PLAN.
- MULCH DISTURBED AREAS AND JACKIFY WITH RESINS SUCH AS ASPHALT, CURASOL OR TERRATAK ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT VEGETATION.
- IRRIGATE DISTURBED AREAS UNTIL SURFACE IS WET.
- COVER SURFACES WITH CRUSHED STONE OR GRAVEL.
- APPLY CALCIUM CHLORIDE AT A RATE TO KEEP SURFACES MOIST.
- APPLY SPRAY-ON ADHESIVES TO MINERAL SOILS (NOT MUCK SOILS) AS DESCRIBED IN TABLE 1.

DC DUST CONTROL ON DISTURBED AREAS

SILT FENCE INSTALLATION

PLAN SYMBOL

FLAT-BOTTOM TRENCH DETAIL

V-SHAPED TRENCH DETAIL

SILT FENCE - GENERAL NOTES

- Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
- Maximum sheet or overland flow path length to the silt fence shall be 100-feet.
- Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
- Silt fence joints, when necessary, shall be completed by one of the following options:
 - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap.
 - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties; or,
 - Overlap entire width of each silt fence roll from one support post to the next support post.
- Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
- Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
- Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

SILT FENCE - POST REQUIREMENTS

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

SILT FENCE - FABRIC REQUIREMENTS

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

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 2

NOT TO SCALE

FEBRUARY 2014

DATE

PLAN SYMBOL

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

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 1 of 2

NOT TO SCALE

FEBRUARY 2014

DATE

CONSTRUCTION ENTRANCE - GENERAL NOTES

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

CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

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

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 2 of 2

GENERAL NOTES

FEBRUARY 2014

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SEDIMENT TUBE INSTALLATION

PLAN SYMBOL

SEDIMENT TUBE SPACING

SLOPE	MAX. SEDIMENT TUBE SPACING
LESS THAN 2%	150-FEET
2%	100-FEET
3%	75-FEET
4%	50-FEET
5%	40-FEET
6%	30-FEET
GREATER THAN 6%	25-FEET

South Carolina Department of Health and Environmental Control

SEDIMENT TUBES

STANDARD DRAWING NO. SC-05 PAGE 1 of 2

NOT TO SCALE

FEBRUARY 2014

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SEDIMENT TUBES - GENERAL NOTES

- Sediment tubes may be installed along contours, in drainage conveyance channels, and around inlets to help prevent off-site discharge of sediment-laden stormwater runoff.
- Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment tubes are not permitted.
- The outer netting of the sediment tube should consist of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material.
- Sediment tubes, when used as checks within channels, should range between 18-inches and 24-inches depending on channel dimensions. Diameters outside this range may be allowed where necessary when approved.
- Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
- Sediment tubes should be staked using wooden stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48-inches in length placed on 2-foot centers.
- Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufacturer's recommendations should always be consulted before installation.
- The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint.
- Sediment tubes should not be stacked on top of one another, unless recommended by manufacturer.
- Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.
- Sediment tubes should continue up the side slopes a minimum of 1-foot above the design flow depth of the channel.
- Install stakes at a diagonal facing incoming runoff.

SEDIMENT TUBES - INSPECTION & MAINTENANCE

- The key to functional sediment tubes is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of sediment tubes shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the sediment tube.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- Large debris, trash, and leaves should be removed from in front of tubes when found.
- If erosion causes the edges to fall to a height equal to or below the height of the sediment tube, repairs should be made immediately to prevent runoff from bypassing tube.
- Sediment tubes should be removed after the contributing drainage area has been completely stabilized. Permanent vegetation should replace areas from which sediment tubes have been removed.

South Carolina Department of Health and Environmental Control

SEDIMENT TUBES

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GENERAL NOTES

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CONSTRUCTION ENTRANCE

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SEDIMENT TUBES

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GENERAL NOTES

FEBRUARY 2014

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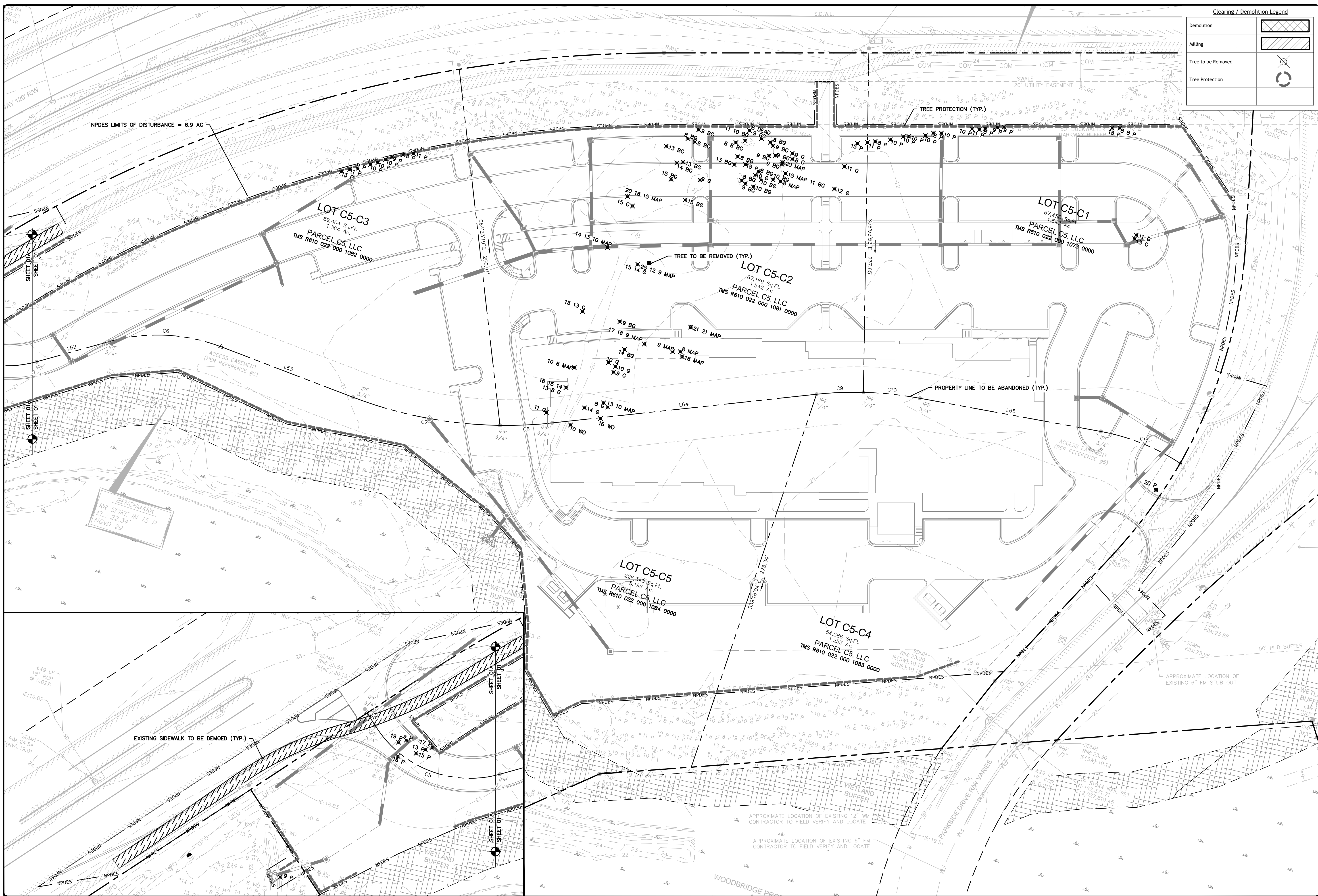
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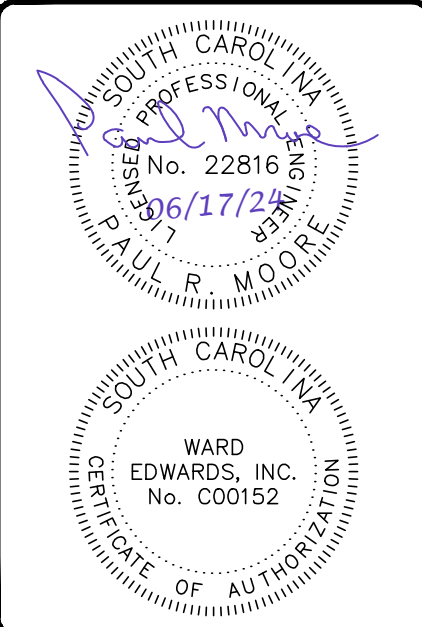
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Clearing / Demolition Legend	
Demolition	
Milling	
Tree to be Removed	
Tree Protection	



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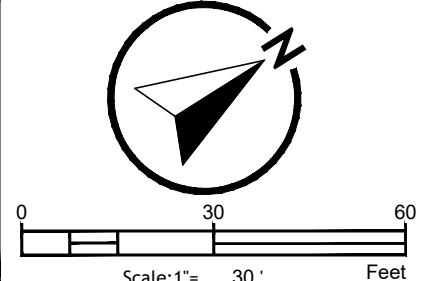
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P.O. Box 381, Bluffton,
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Buckwalter Parkway Healthcare
Town of Bluffton, South Carolina

Prepared for
e4h Environments for Health Architecture

Clearing & Demolition Plan

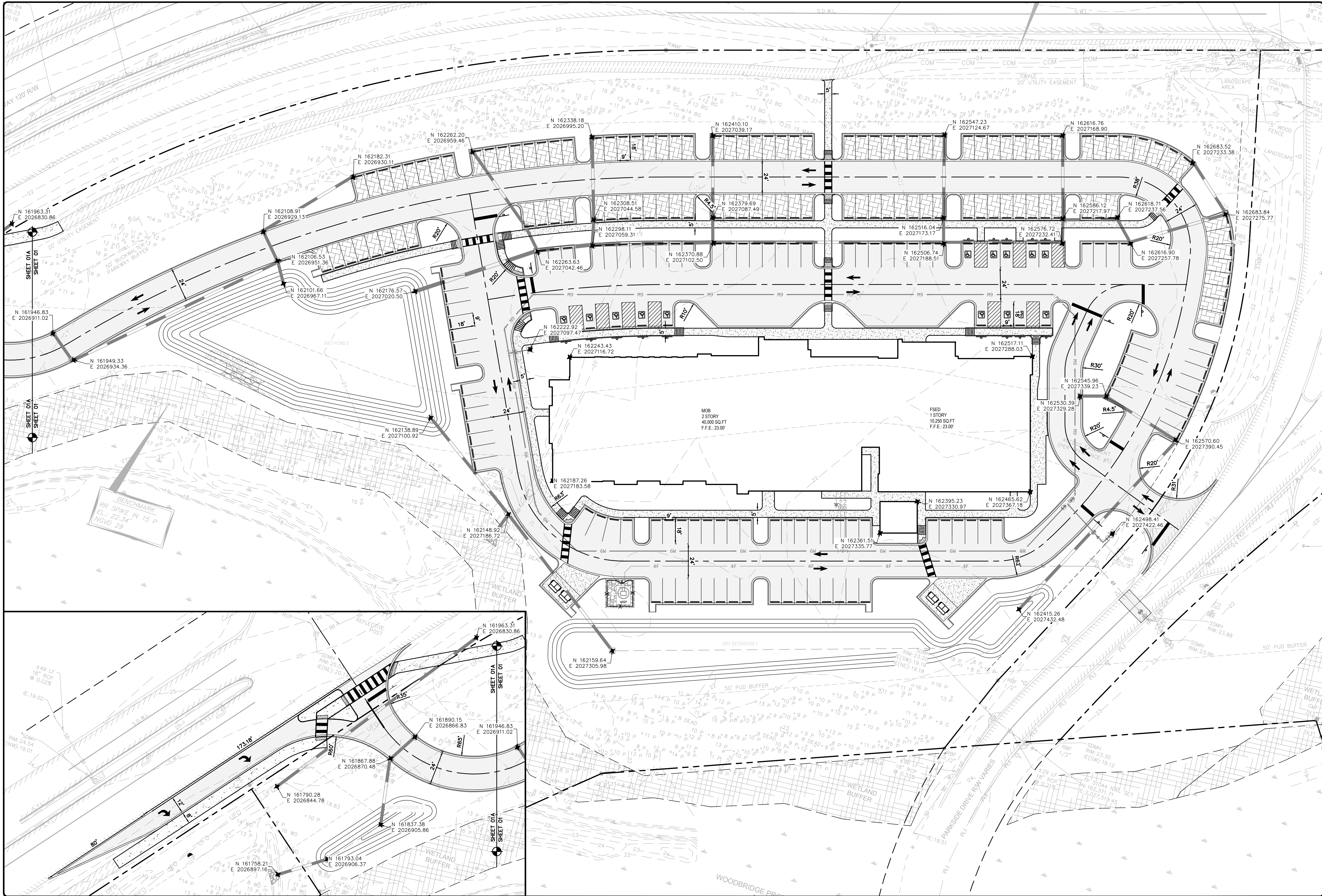
Vert. Datum:	NAVD88
Horiz. Datum:	NAD83
Project #:	230640
Date:	06/17/24
Designed by:	LYJ
Checked by:	CPB



C301

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Professional Engineer Seal: Ward Edwards, Inc. No. C00152, State of South Carolina, dated 06/17/24.

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Prepared for
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Site Layout Plan

Vert. Datum:	NAVD88
Horiz. Datum:	NAD83
Project #:	230640
Date:	06/17/24
Designed by:	LYJ
Checked by:	CPB

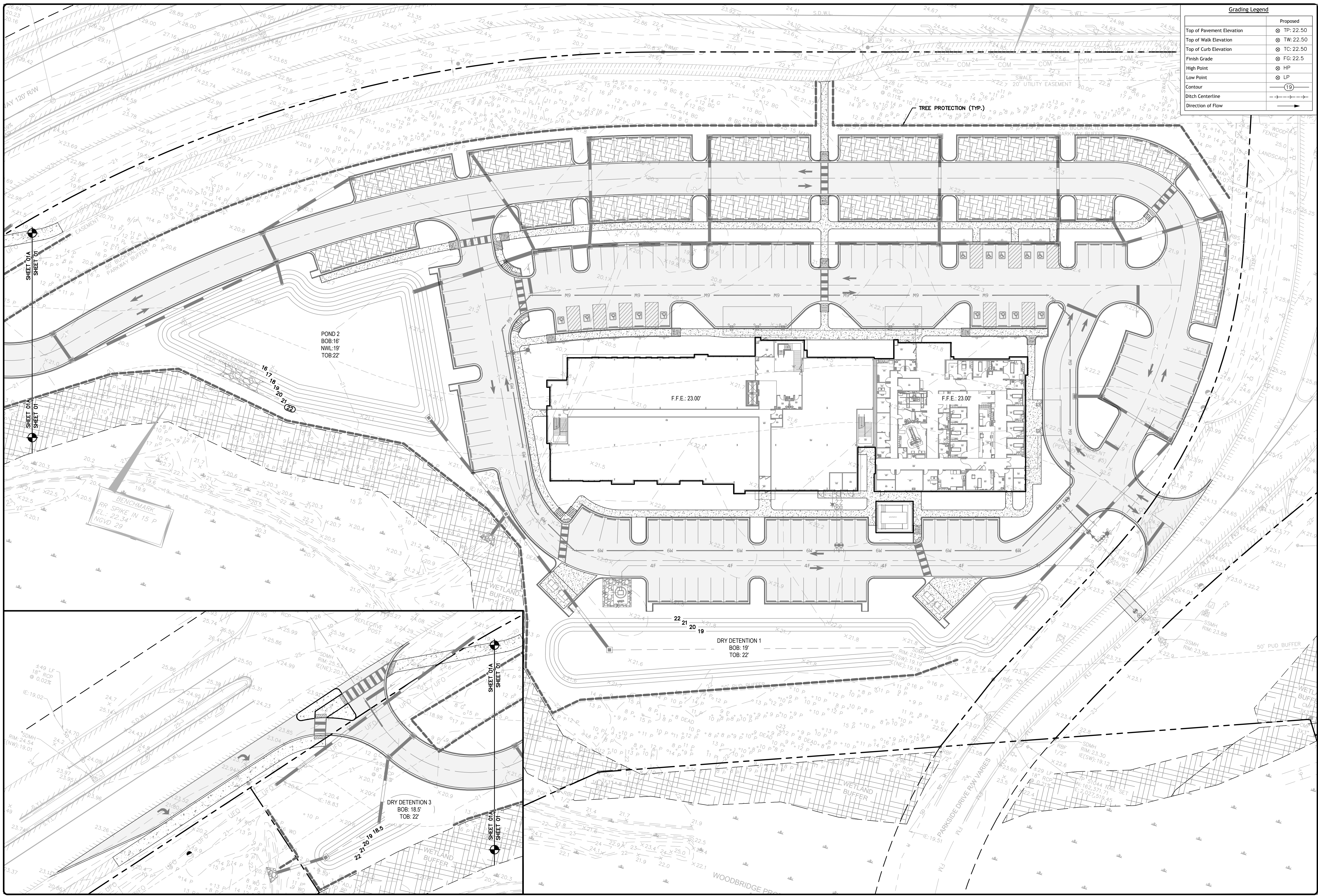
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Graphic scale bar: 0 to 60 feet.

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Grading Legend	
Proposed	
Top of Pavement Elevation	TP: 22.50
Top of Walk Elevation	TW: 22.50
Top of Curb Elevation	TC: 22.50
Finish Grade	FG: 22.5
High Point	HP
Low Point	LP
Contour	19
Ditch Centerline	
Direction of Flow	

WARD
EDWARDS, INC.
No. 00152

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Grading Plan

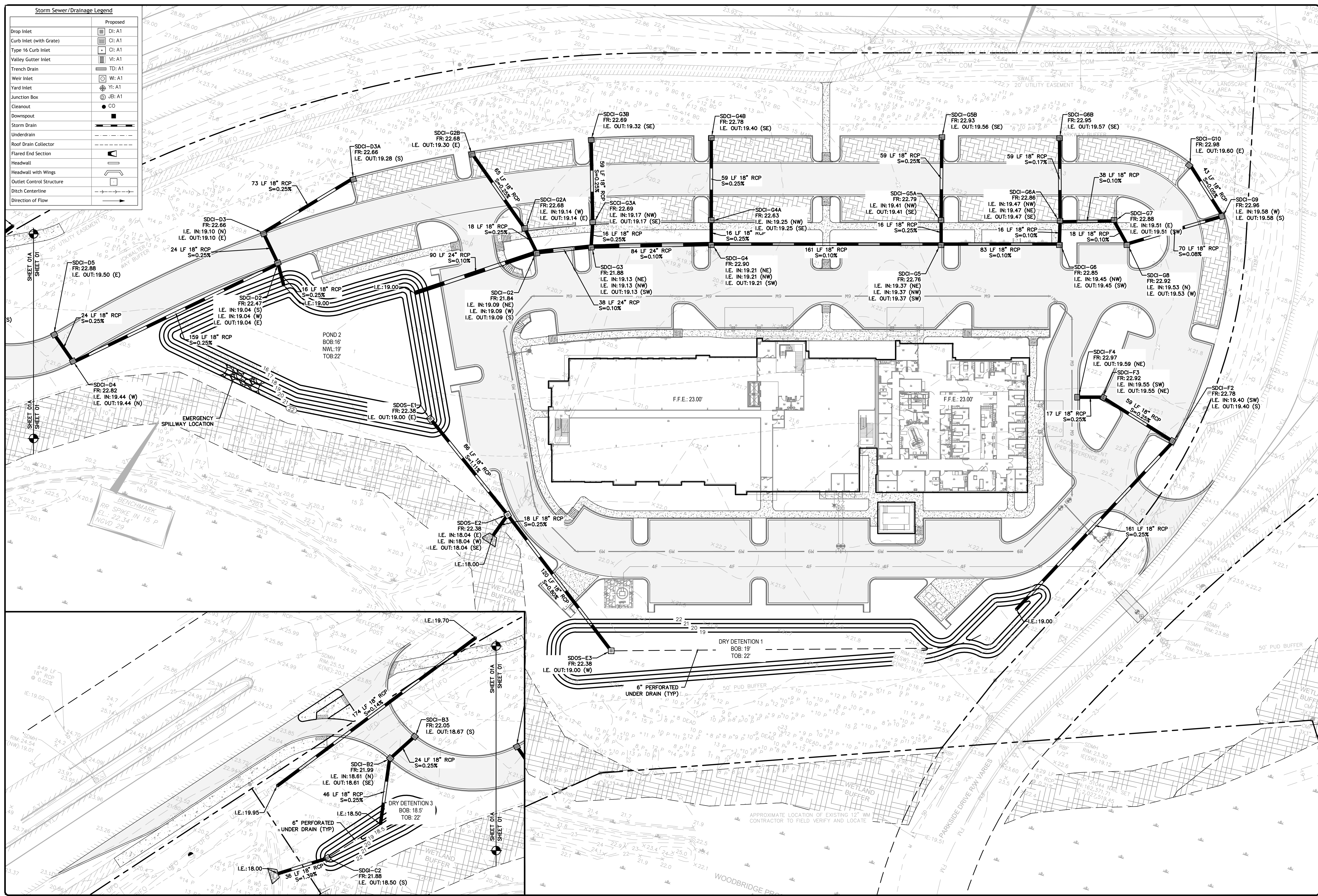
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Horiz. Datum:	NAD83
Project #:	230640
Date:	06/17/24
Designed by:	LYJ
Checked by:	CPB

0 30 60
Scale: 1" = 30' Feet

C501

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Town of Bluffton, South Carolina

e4h Environments for Health Architecture
Prepared for

Drainage Plan

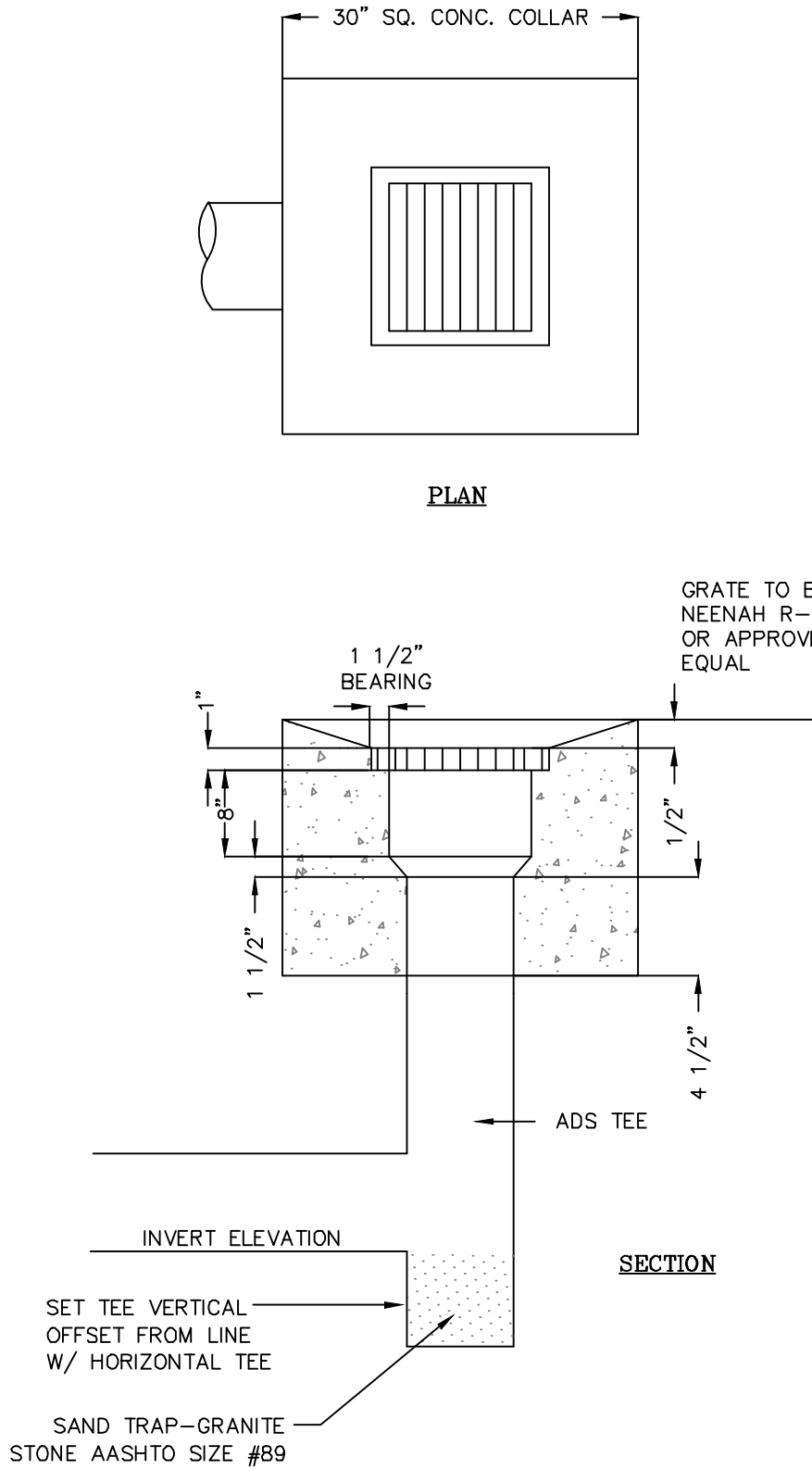
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Horiz. Datum: NAD83
Project #: 230640
Date: 06/17/24
Designed by: LYJ
Checked by: CPB

Scale: 1" = 30' Feet

C601

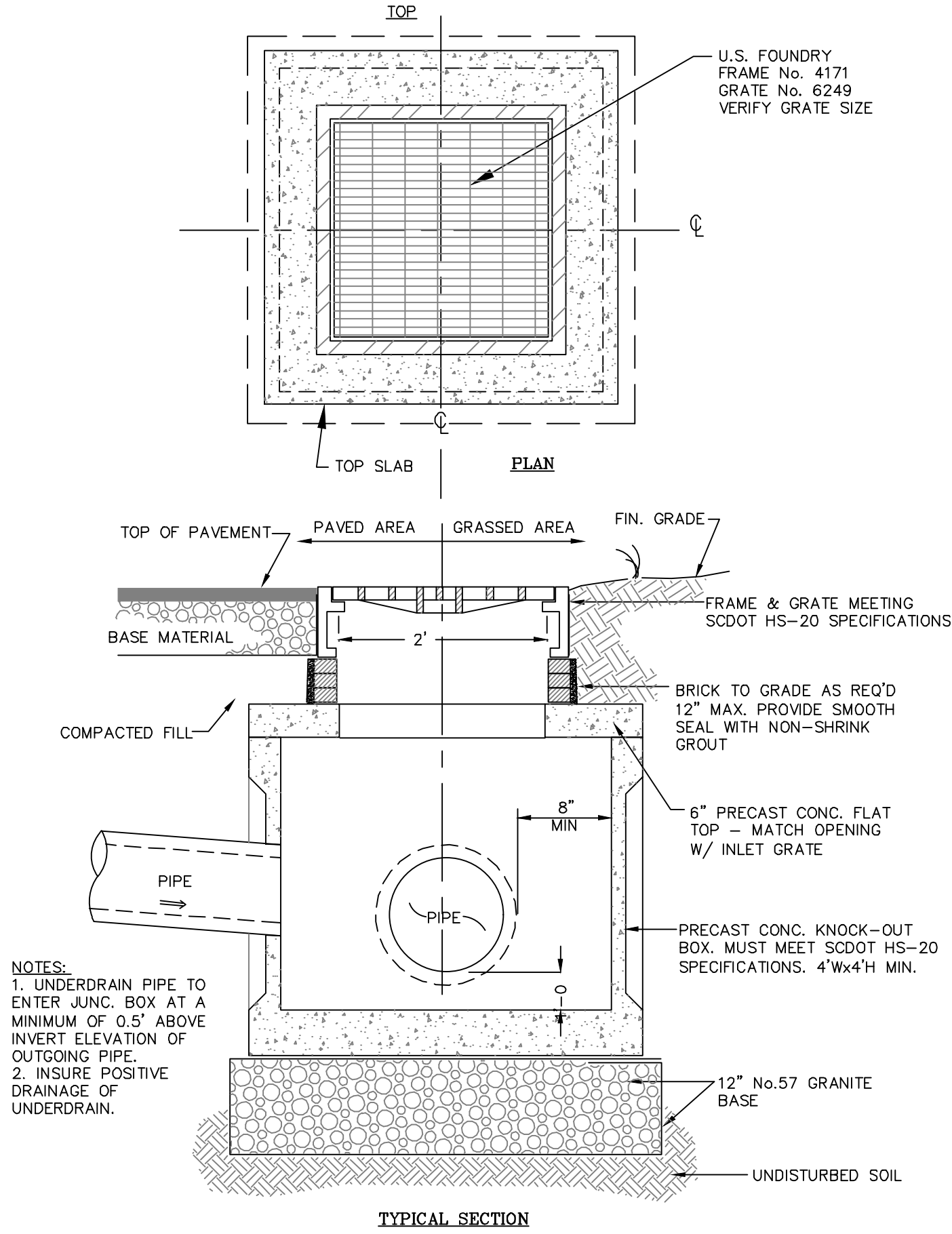
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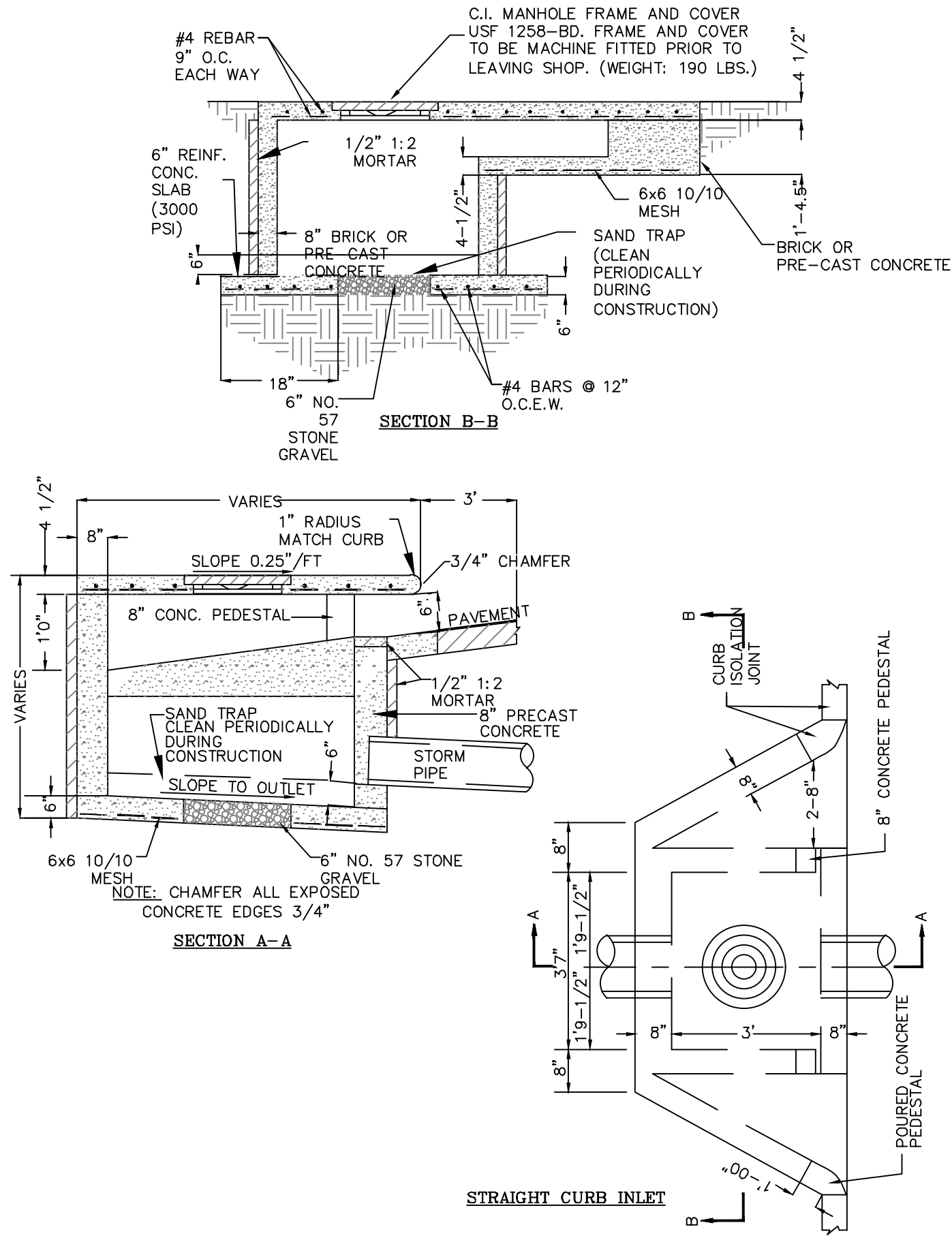
YARD INLET

DETAIL 02630-020



GRATE INLET

DETAIL 02630-027

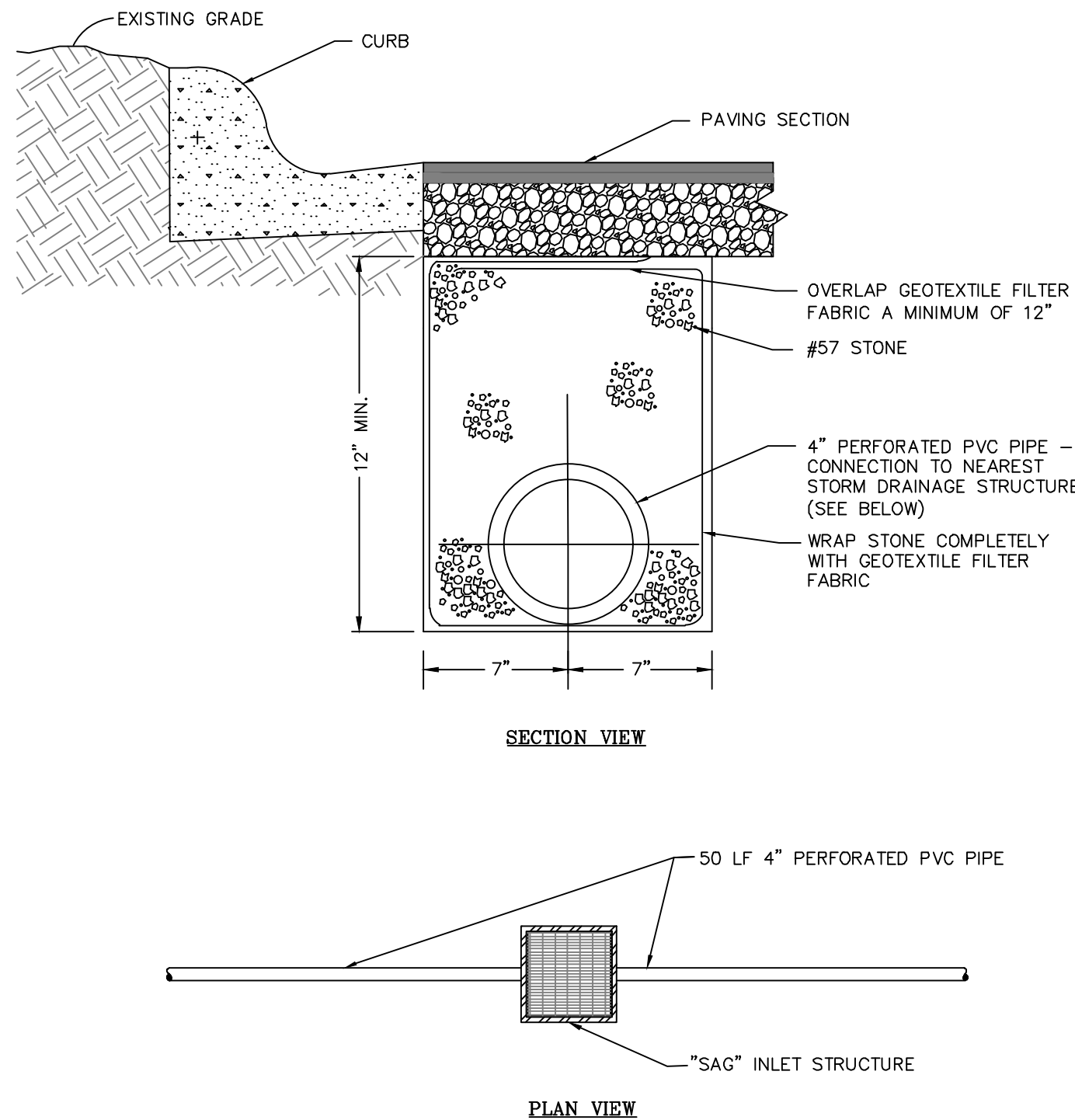


CURB INLET

DETAIL 02630-009

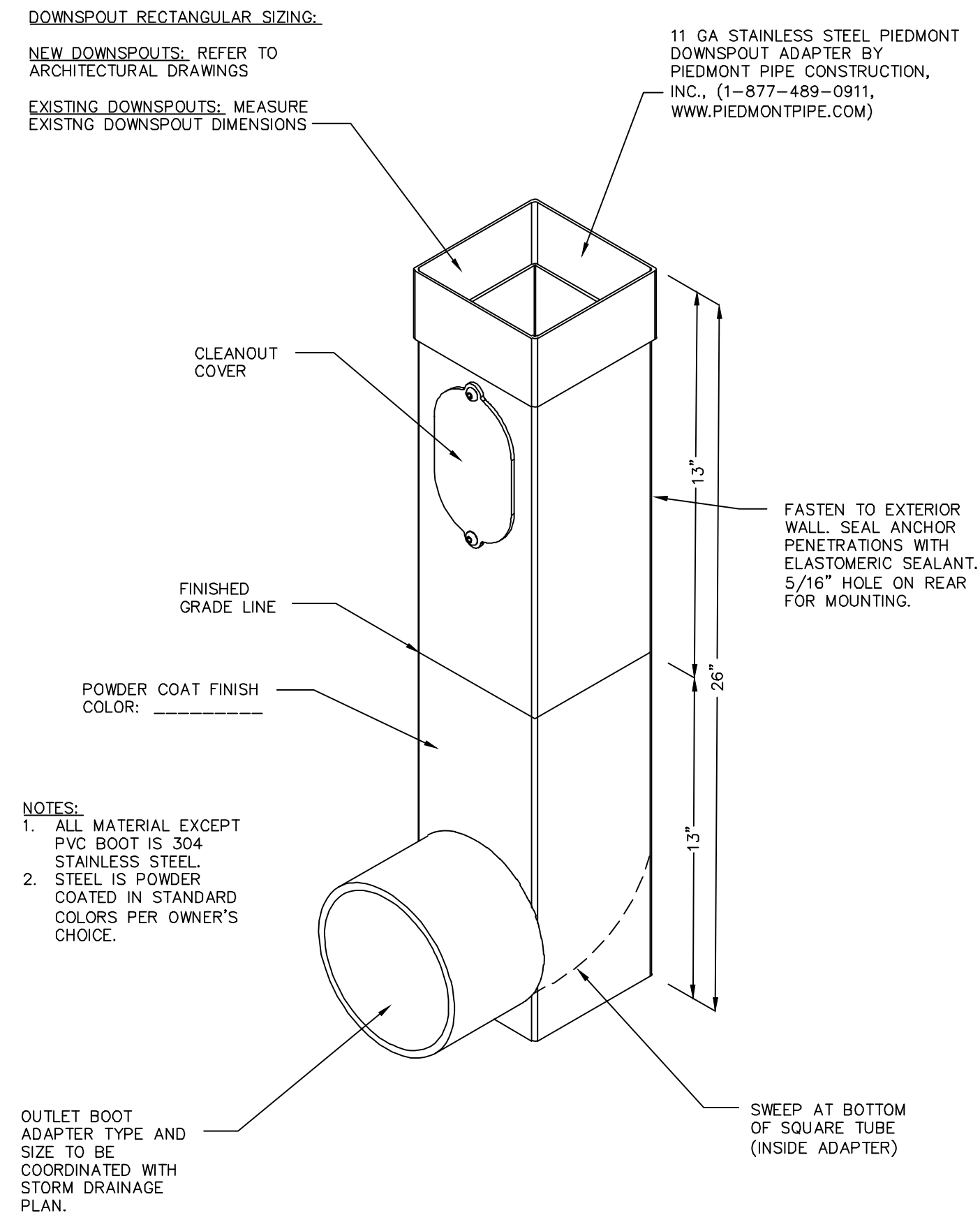
TYPICAL V-SHAPED DITCH CROSS SECTION

DETAIL 02630-024

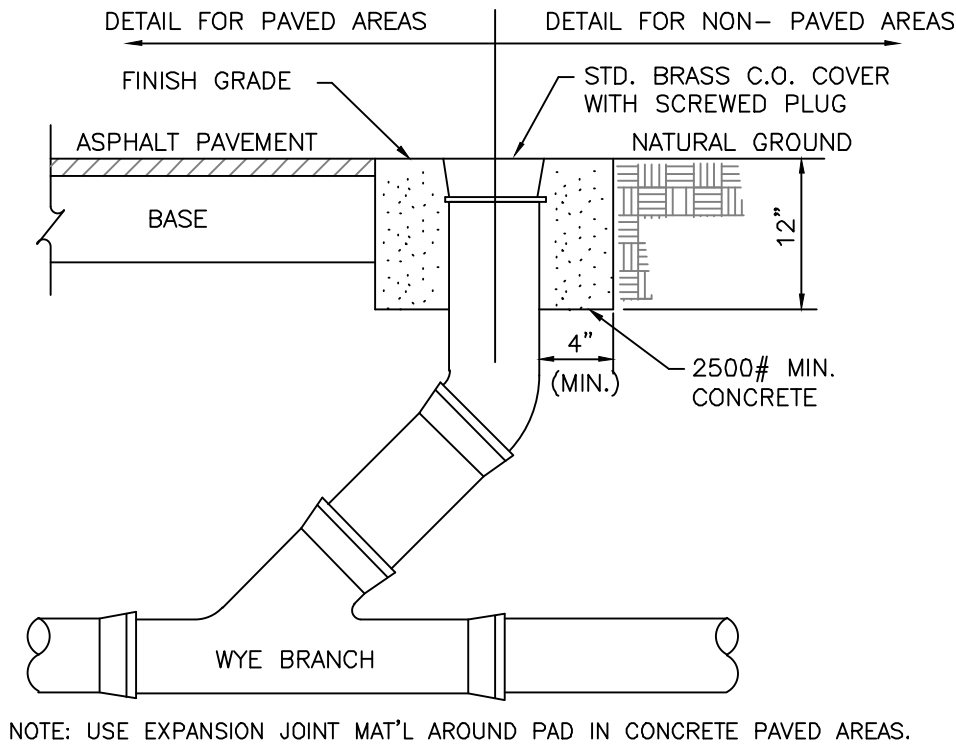


UNDERDRAIN DETAIL

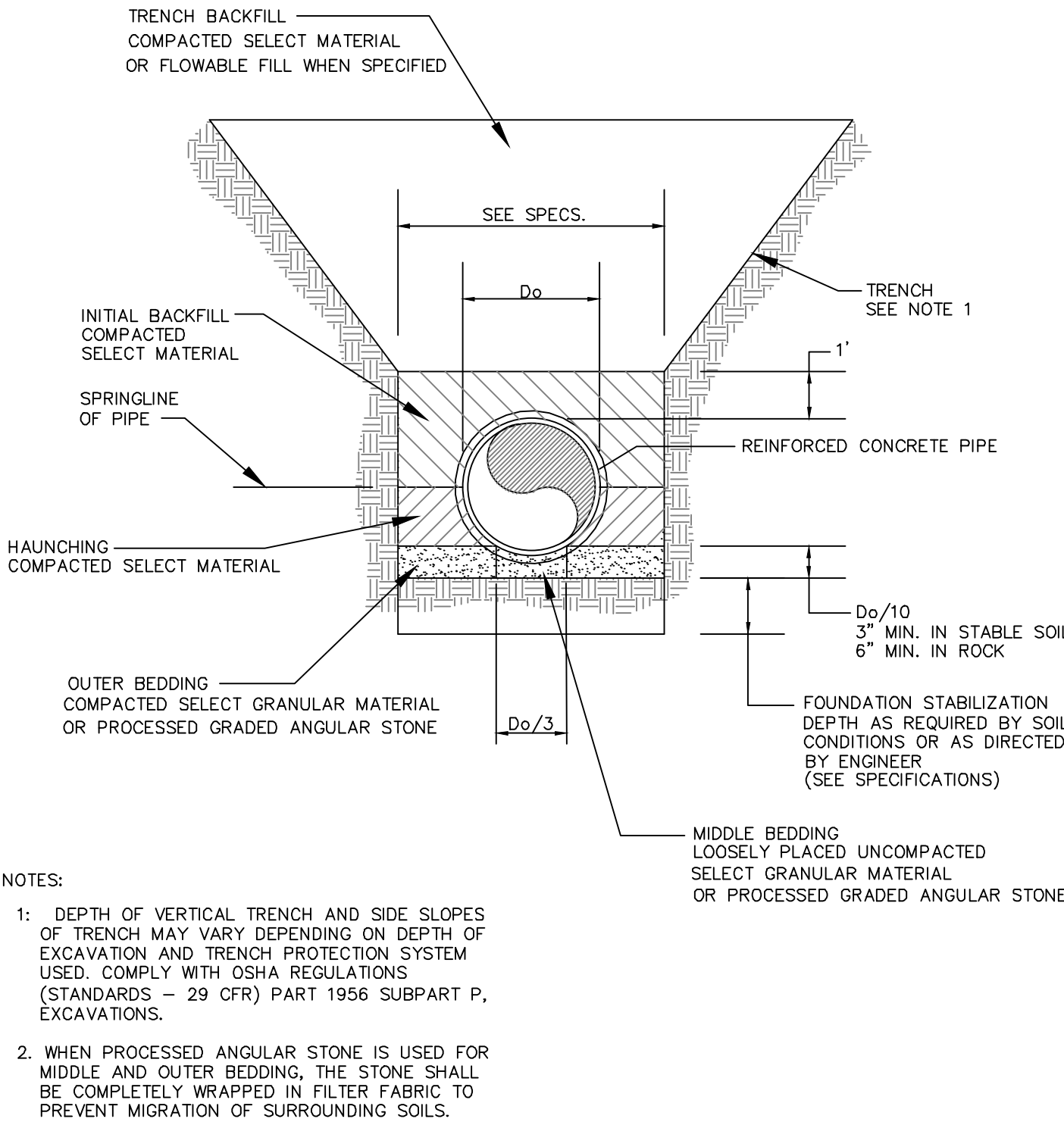
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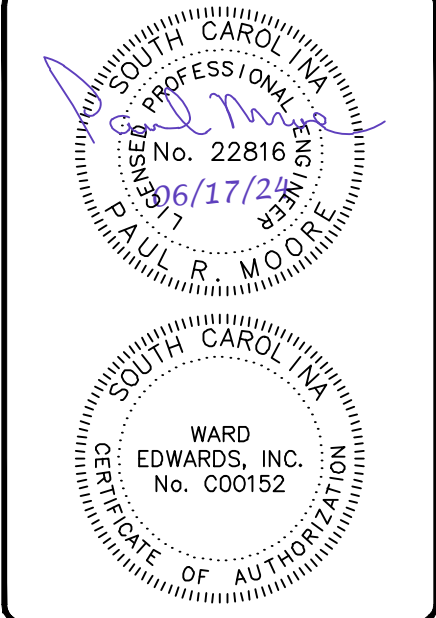
GUTTER DOWNSPOUT ADAPTER



CLEANOUT DETAIL



EMBEDMENT DETAIL FOR REINFORCED CONCRETE PIPE



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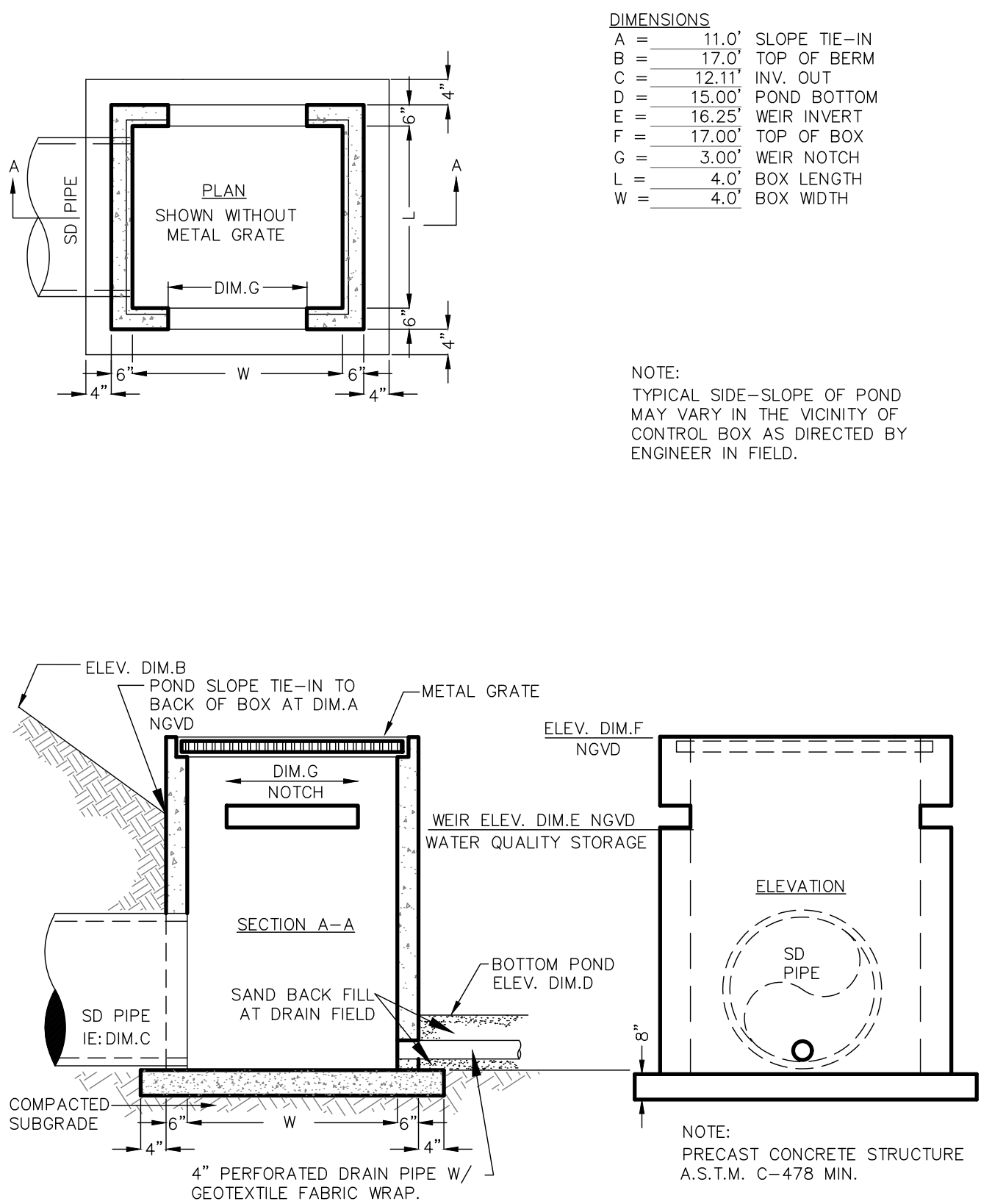
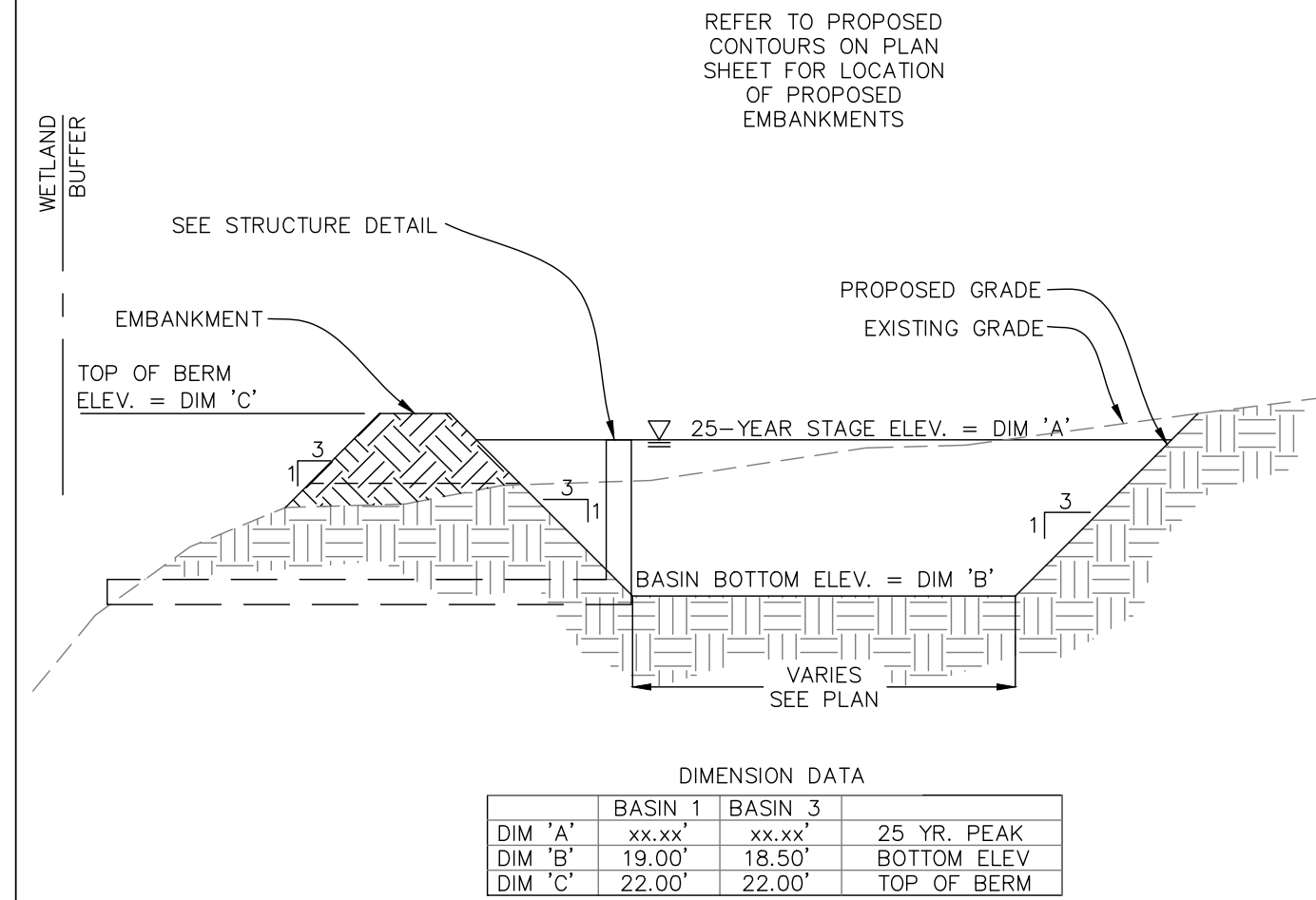
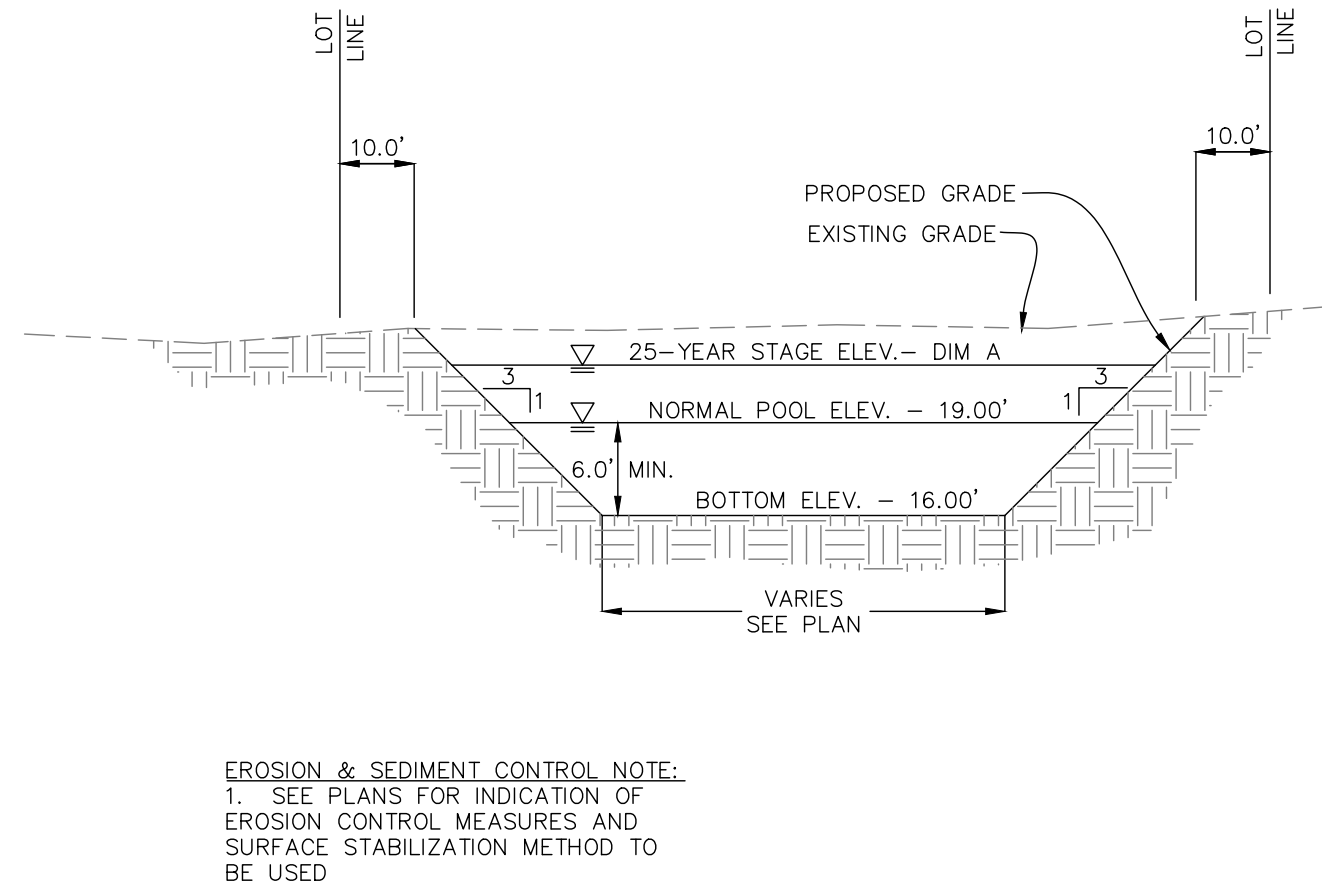
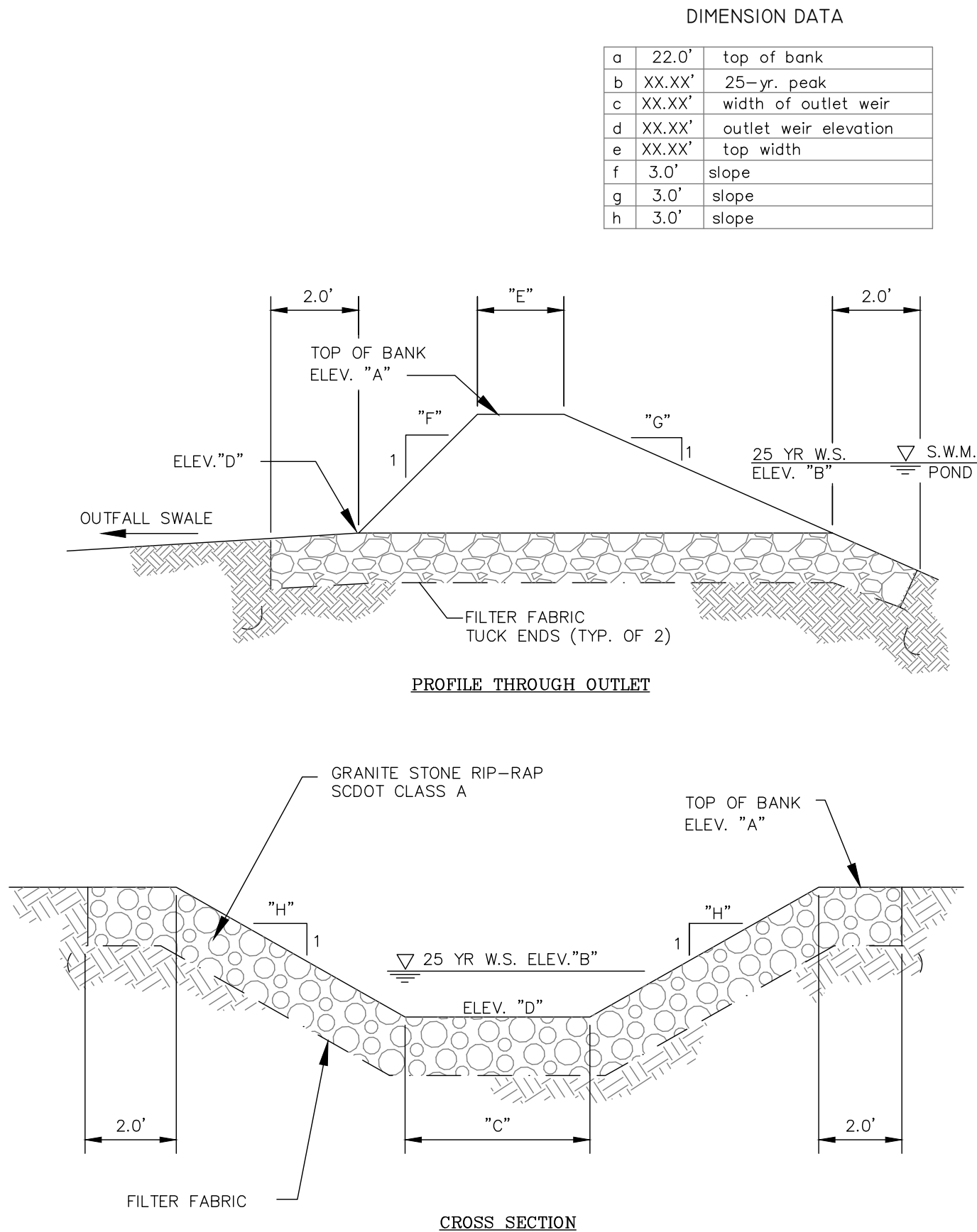
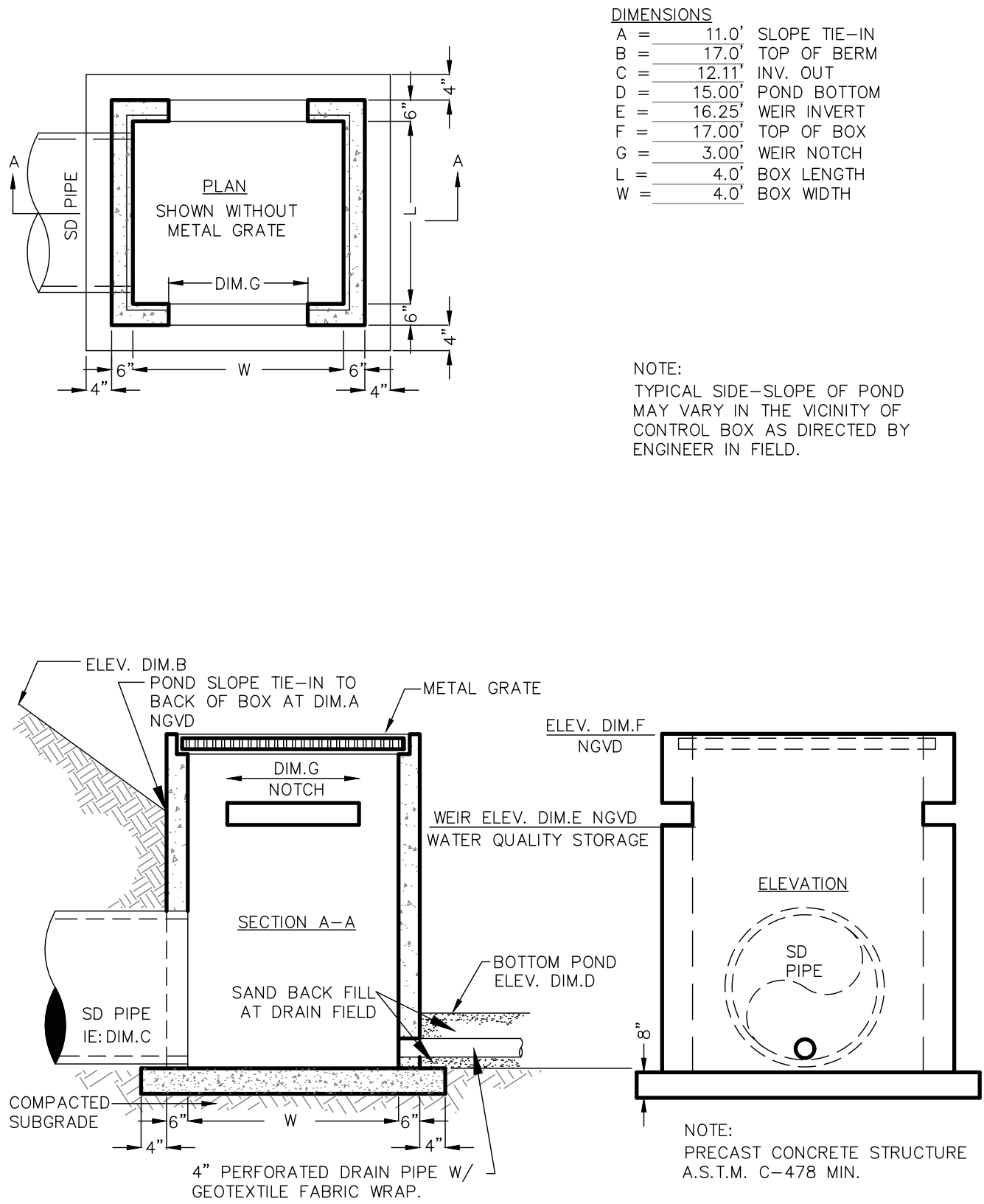
Buckwalter Parkway Healthcare
Town of Bluffton, South Carolina
Prepared for
e4h Environments for Health Architecture
Drainage Details

Vert. Datum:	NAVD88
Horiz. Datum:	NAD83
Project #:	230640
Date:	06/17/24
Designed by:	LYJ
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Not to Scale

C602

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WET DETENTION POND

Installation:

A forebay shall be provided for all inlets to a wet water quality pond and shall be placed upstream of the main wet pond area. The forebay is separated from the larger wet detention pond area by barriers or baffles that may be constructed of earth, stones, riprap, gabions, or geotextiles. The top of the forebay barrier shall be a maximum of one (1)-foot below the normal pool elevation, and may extend above the elevation of the permanent pool.

The permanent pool shall be four (4) to six (6) feet in depth.

Acceptable trash guards include:

- Hoods that extend at least 6-inches below the permanent pool water surface elevation.
- Reverse flow pipes where the outlet structure inlet is located at least 6-inches below the permanent pool water surface elevation.
- Trash boxes made of sturdy wire mesh.

Inspection and Maintenance:

The side slopes of the pond shall be mowed monthly.

Since decomposing vegetation captured in the wetpond can release pollutants, especially nutrients, it may be necessary to harvest dead vegetation annually. Otherwise the decaying vegetation can export pollutants out of the pond and also can cause nuisance conditions to occur.

Debris shall be cleared from all inlet and outlet structures monthly.

All eroded or undercut areas shall be repaired as needed.

A sediment marker shall be placed in the forebay to determine when sediment removal is required.

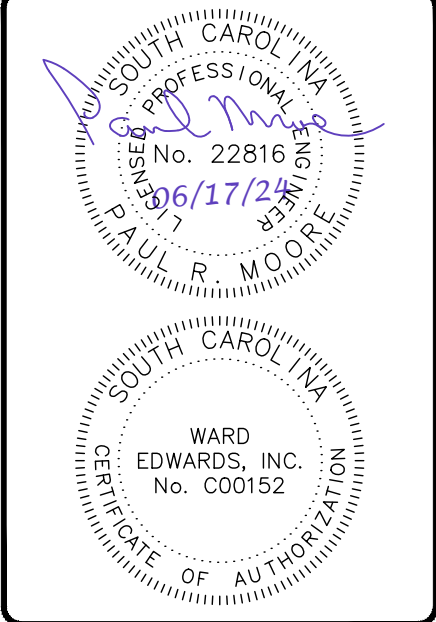
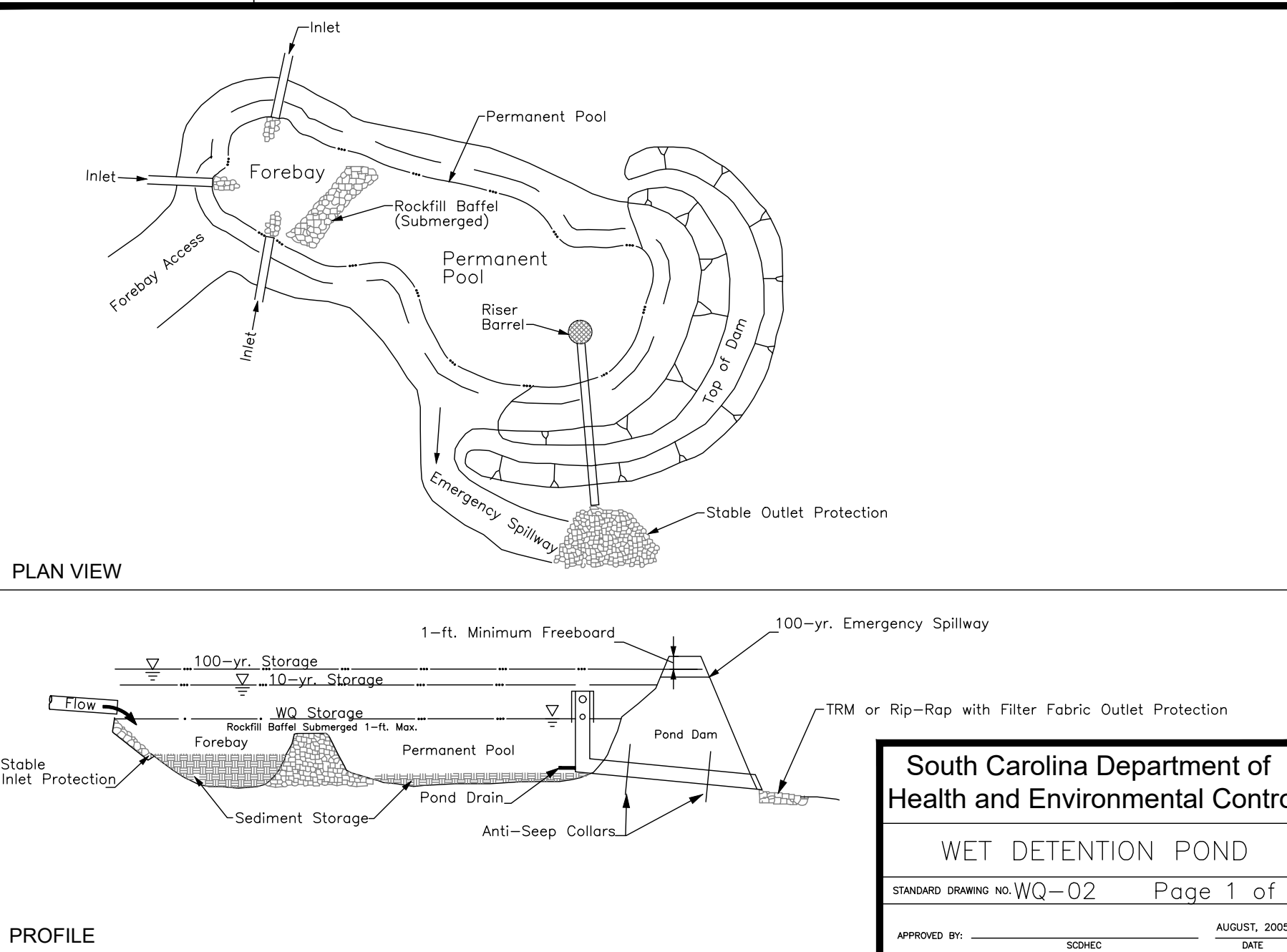
Sediment accumulations in the main pond area shall be monitored and sediment shall be removed when the permanent pool volume has been significantly filled and/or the pond becomes eutrophic.

South Carolina Department of Health and Environmental Control

WET DETENTION POND

STANDARD DRAWING NO. WQ-02 Page 2 of 2

APPROVED BY: _____ SCORED: _____ AUGUST, 2005 DATE: _____



No.	Description	Plan Revisions	Date
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Checked by:	CPB

Not to Scale

C603

AS-BUILT SURVEY REQUIREMENTS

Contractor is responsible for providing an as-built topographic survey of the constructed project site. the survey shall conform to scdhec and local government as-built requirements including, but not necessarily limited to the following:

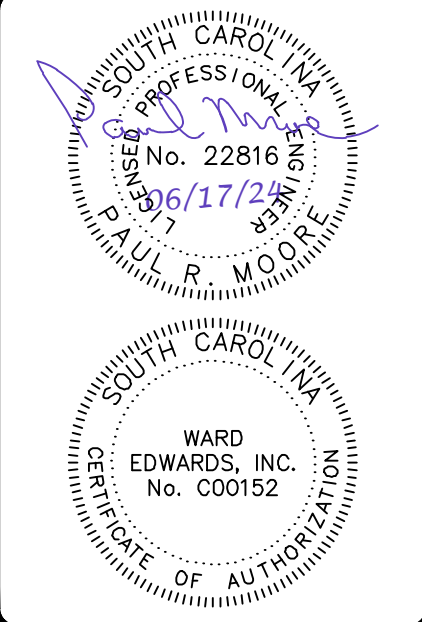
The survey shall be prepared and signed by a south carolina licensed land surveyor.

Elevations shall be based upon the same vertical datum used in the engineering plans.

The drawing shall be on the sc nad83 state plane coordinate system.

The survey shall include the following as-built information to include location and elevations:

- a. Property lines
- b. Building(s) with finished floor elevations
- c. Paving to include elevations along edges and internal ridges and valleys (i.e. road crowns, inverted crown flow lines)
- d. ADA-accessible ramps
- e. Curb and gutter
- f. Sidewalks
- g. Signage
- h. Storm inlets with pipe diameter(s), frame, and invert
- i. Junction boxes with pipe diameter(s), frame, and invert
- j. Sanitary sewer manholes with frame and invert
- k. Pump stations to include fencing, controls, driveway, wetwell top/bottom elevations
- l. Ditches to include top of bank, bottom of bank, and centerline
- m. Ponds to include contours from top of bank to water surface and measured depth from water surface to pond bottom
- n. Weir elevations and dimensions
- o. Outlet control structures to include elevations and dimensions of all risers, grates, orifices, weirs, and outlet pipe inverts and diameters
- p. Emergency spillway dimensions and elevations
- q. Locations and inverts for all pipes discharging into the pond
- r. All other visible site features to include valves, fdc's, hydrants, transformers, tight poles, clean-outs, pedestals, service yards, fencing, hvac/mechanical devices, and bollards.



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Buckwalter Parkway Healthcare
Town of Bluffton, South Carolina

Town of Bluffton, South Carolina

e4h Environments for Health Architecture

Drainage Details

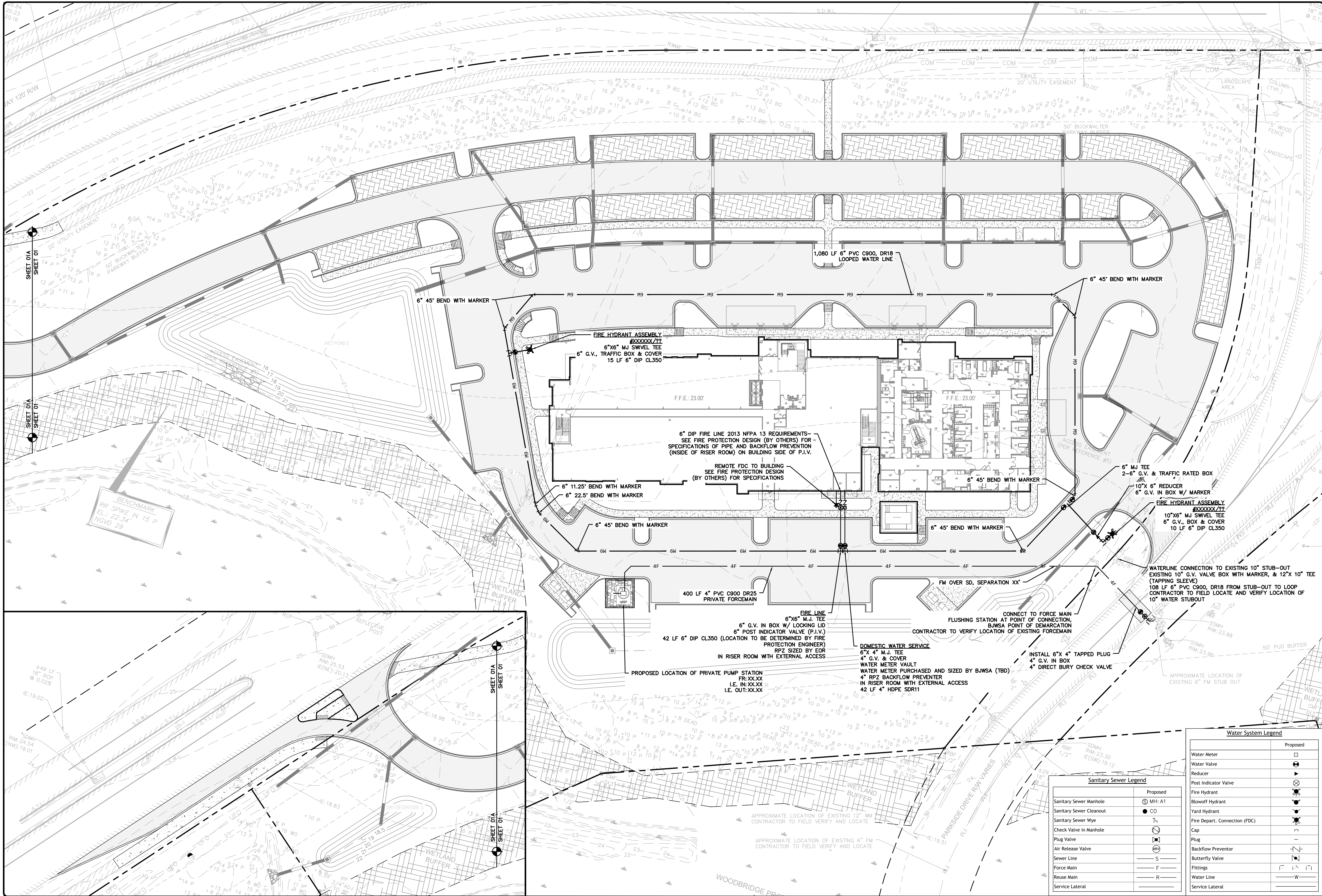
Vert. Datum:	NAVD88
Horiz. Datum:	NAD83

Project #:	230640
Date:	06/17/24
Designed by:	LYJ
Checked by:	CPB

Not to Scale

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06/17/24

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Professional Engineer
No. 22816
06/17/24

WARD EDWARDS, INC.
Professional Engineer
No. 22816
06/17/24

No.	Description	Date
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No. 22816
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Buckwalter Parkway Healthcare
Town of Bluffton, South Carolina

Prepared for
e4h Environments for Health Architecture

Utility Plan

Vert. Datum: NAVD88
Horiz. Datum: NAD83

Project #: 230640
Date: 06/17/24
Designed by: LYJ
Checked by: CPB

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BJWSA UTILITY AS-BUILT SURVEY REQUIREMENTS

1. Contractor shall provide engineer with electronic file of surveyed utility as-built points. point descriptions shall be clear and understandable.
2. Contractor shall also provide corresponding redline drawing to supplement or clarify electronic file content.
3. Contractor shall schedule surveyor to be present during installation in order to obtain accurate information on underground fittings and sanitary/storm crossing elevations. multiple surveyor mobilizations may be needed. if surveyor is not present during installation, contractor shall ensure surveyor has access to all utility components listed in these notes.
4. Contractor's surveyor shall be a professional land surveyor licensed in south carolina. contractor's surveyor will review and sign the bjwsa certification on the utility as-built drawing prepared by engineer upon completion.
5. Utility as-built points shall be based upon the sc nad83 coordinate system and the elevations shall be based upon the same vertical datum used in the engineering plans.
6. As built survey shall include, but not necessarily be limited to, the following:

a. GRAVITY SEWER

- i. Manhole locations, frame elevation, all invert elevations
- ii. Cleanout locations, ground elevation, invert elevation
- iii. Points for permanent visible structures nearby manholes and cleanouts for reference (pavement, buildings, manholes, catch basins, power poles, or property corners)

b. FORCE MAIN

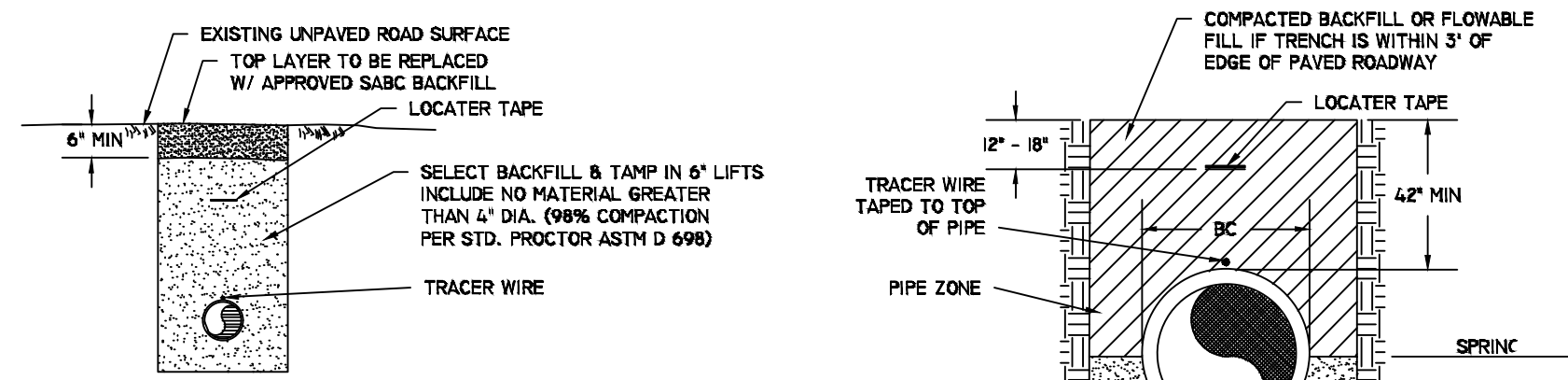
- i. Elevation on top of force main connection to manhole or force main manifold
- ii. Air release valves
- iii. Simple force main alignments on 100 lf increments
- iv. Arcs, bends on 50 lf increments

c. WATER

- i. Horizontal and vertical location of all valves, bends, tees, and storm/sanitary crossing points (for as-built separation calculations)
- ii. Fire hydrants
- iii. Concrete markers, connections to existing lines, backflow preventors, air release valves
- iv. Points for permanent visible structures near water system elements described above for reference (pavement, buildings, manholes, catch basins, power poles, or property corners). two surveyed reference point locations are required for each fitting.

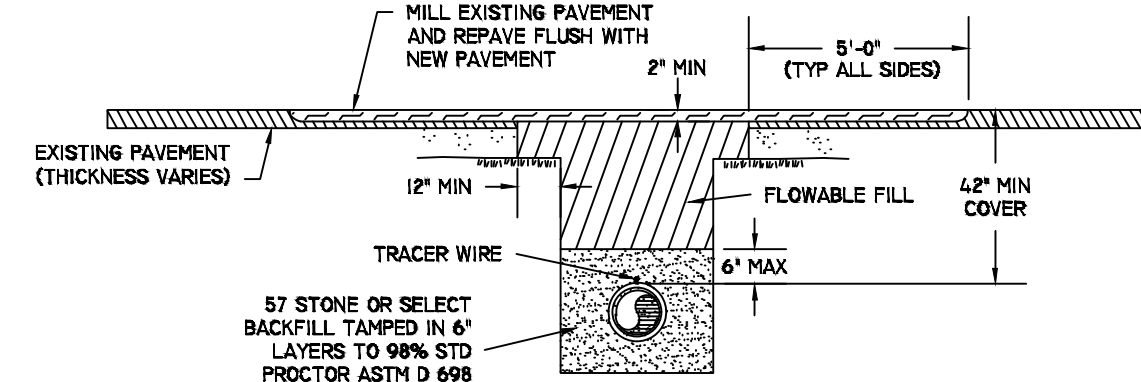
d. PUMP STATIONS

- i. Complete layout of pump station
- ii. Manhole locations, frame elevation, all invert elevations
- iii. Fencing & gates, control panel
- iv. Top of slab (incl. brass benchmark) & bottom of wetwell
- v. Influent line invert
- vi. Float levels (pump off, pump on, lead/lag, both pumps on, high water)
- vii. Property corners, yard hydrant, light pole, discharge piping/valves
- viii. Bypass pump
- ix. Electrical power service from meter to transformer



UNPAVED ROADWAY BEDDING DETAIL

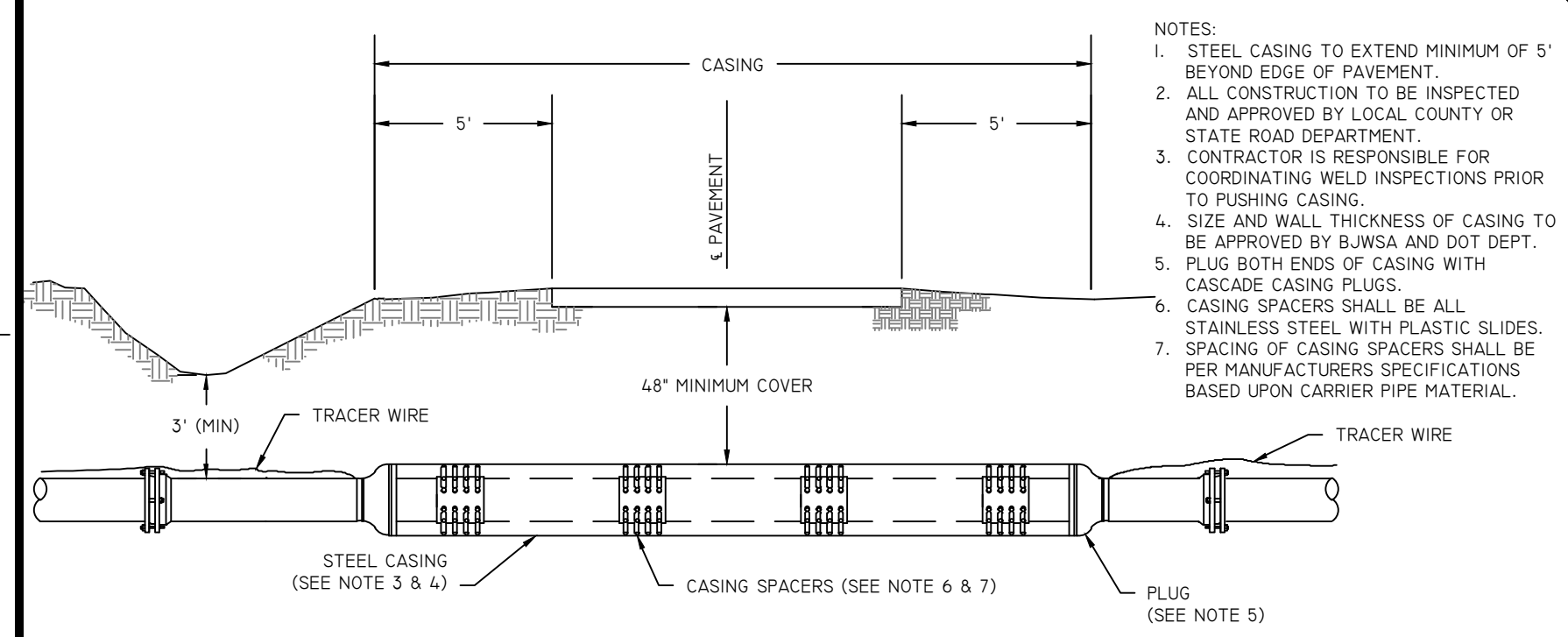
TYPICAL BEDDING DETAIL



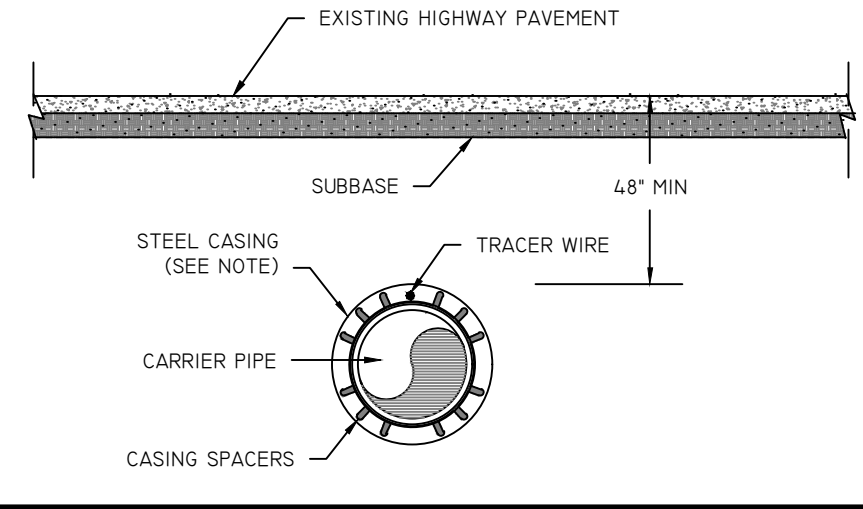
PAVED AREA DETAIL

- NOTES:**
1. PAVEMENT CUT TO EXTEND 12" BEYOND EDGES OF TRENCH AS SHOWN.
 2. MILL AND REPLACE OF ASPHALT TO EXTENTS SHOWN SHALL BE BY SCOOT CERTIFIED PAVING CONTRACTOR. MINIMUM THICKNESS OF ASPHALT REPLACEMENT SHALL BE 2 INCHES.
 3. FLOWABLE FILL SHALL BE PLACED FLUSH WITH BOTTOM OF EXISTING PAVEMENT MILL. NO VOIDS OR FILL SHALL BE EVIDENT BETWEEN FLOWABLE FILL AND NEW ASPHALT PAVEMENT.
 4. LAKE STRIPING SHALL ONLY BE REPLACED ON NEW ASPHALT PAVEMENT AND ANY AREAS OF EXISTING ROADWAY DAMAGED BY CONSTRUCTION ACTIVITIES.
 5. ALL INSTALLATIONS IN PUBLIC ROADWAYS SHALL COMPLY WITH CONDITIONS OUTLINED ON THE APPLICABLE ENCROACHMENT PERMIT.

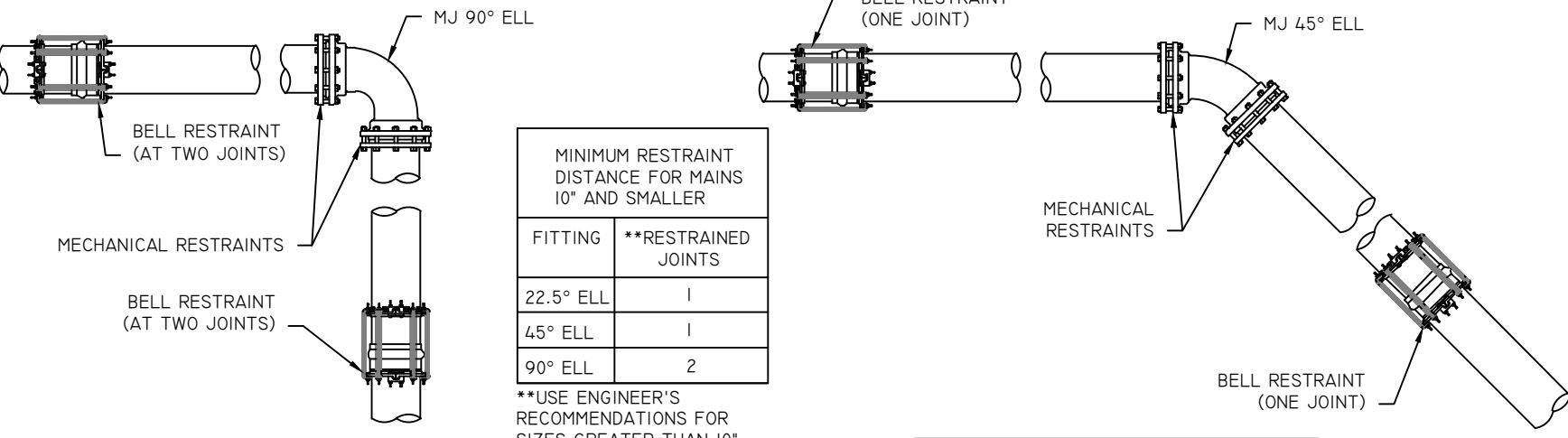
BEAUFORT - JASPER WATER & SEWER AUTHORITY			
BEDDING PRESSURE PIPE DETAIL			
DATE 05/07/18	DRAWN BY SBF	DATE 07/01/09	DRAWING # G-02
SCALE N.T.S.	APPROVED BY BMC	DATE 07/01/09	DRAWING # G-02



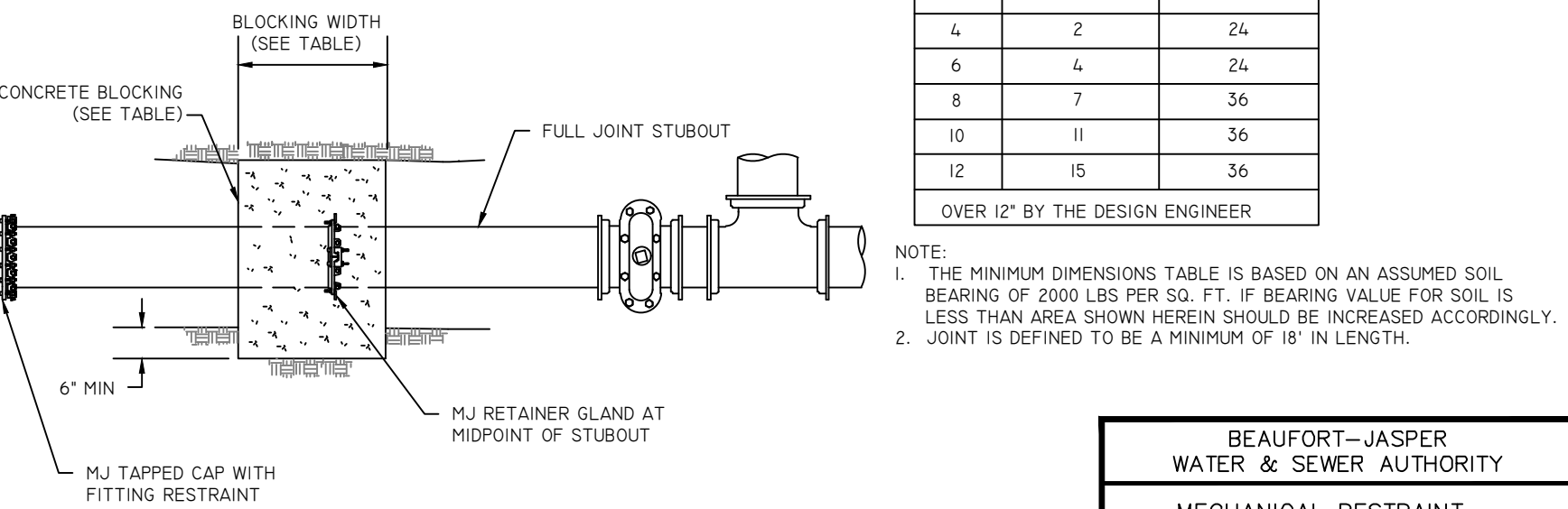
- NOTES:**
1. STEEL CASING TO EXTEND MINIMUM OF 5' BEYOND EDGE OF PAVEMENT.
 2. ALL CONSTRUCTION TO BE INSPECTED AND APPROVED BY LOCAL COUNTY OR STATE ROAD DEPARTMENT.
 3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WELD INSPECTIONS PRIOR TO PUSHING CASING.
 4. SIZE AND WALL THICKNESS OF CASING TO BE APPROVED BY BJWSA AND DOT DEPT.
 5. PLUG BOTH ENDS OF CASING WITH CASCADE CASING PLUGS.
 6. CASING SPACERS SHALL BE ALL STAINLESS STEEL WITH PLASTIC SLIDES.
 7. SPACING OF CASING SPACERS SHALL BE PER MANUFACTURER'S SPECIFICATIONS BASED UPON CARRIER PIPE MATERIAL.



BEAUFORT-JASPER WATER & SEWER AUTHORITY			
BORE AND JACK DETAIL			
DATE 07/01/09	DRAWN BY BMC	DATE 07/01/09	DRAWING # G-03
SCALE N.T.S.	APPROVED BY ERS	DATE 07/01/09	DRAWING # G-03

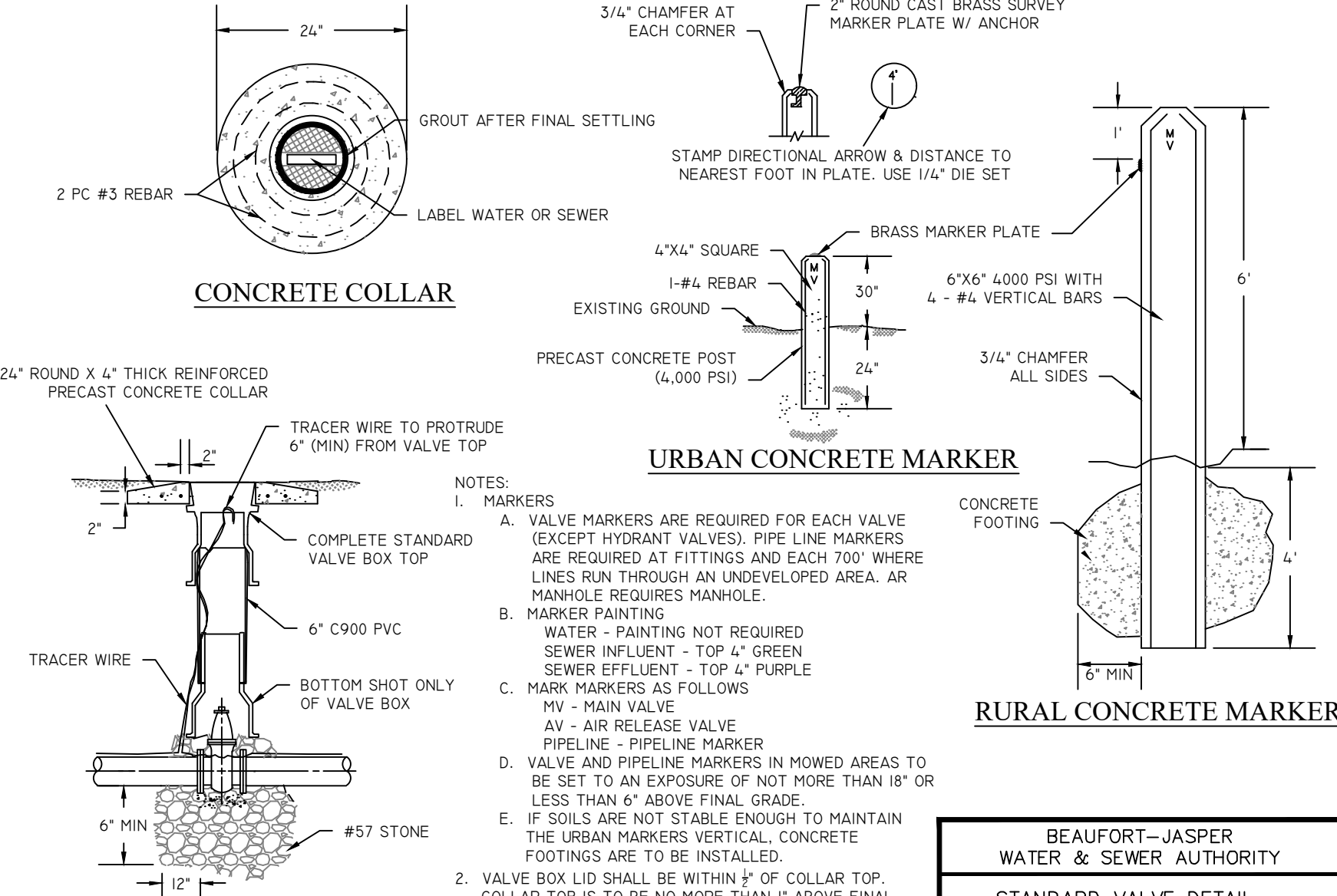


TYPICAL FITTING AND JOINT RESTRAINT



TYPICAL FUTURE STUBOUT

BEAUFORT-JASPER WATER & SEWER AUTHORITY			
MECHANICAL RESTRAINT			
DATE 07/01/09	DRAWN BY BMC	DATE 07/01/09	DRAWING # G-08
SCALE N.T.S.	APPROVED BY ERS	DATE 07/01/09	DRAWING # G-08

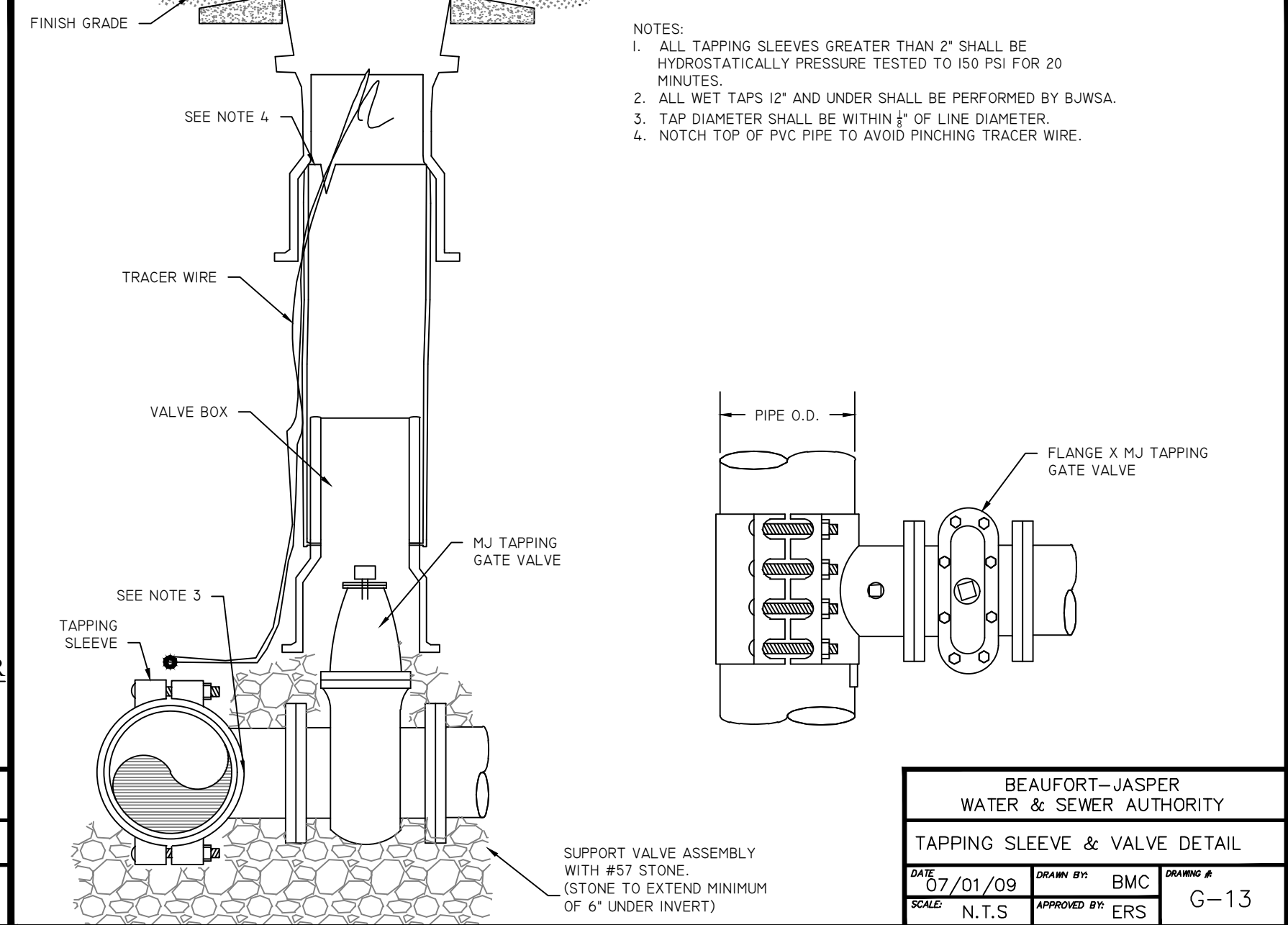


CONCRETE COLLAR

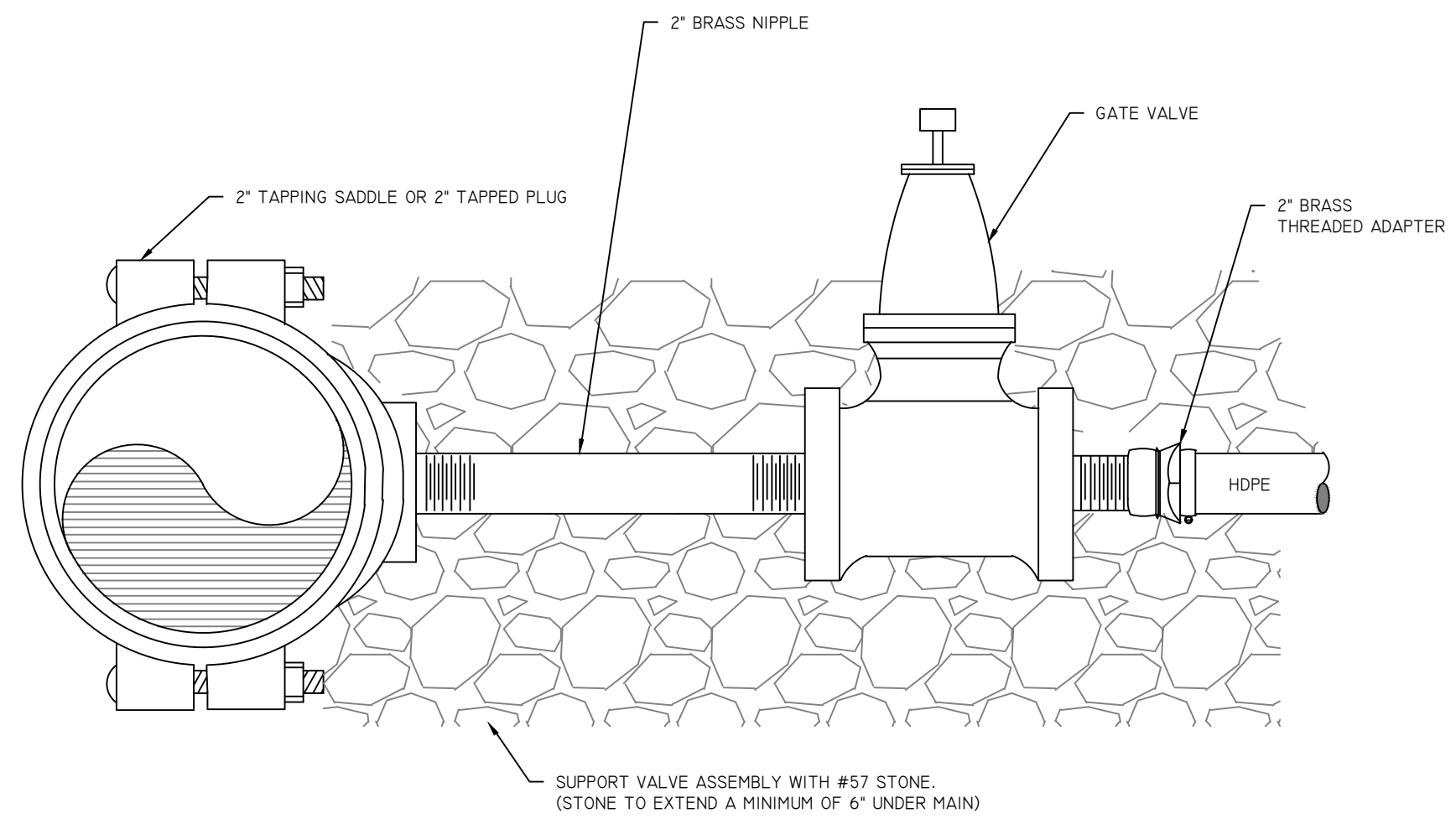
URBAN CONCRETE MARKER

RURAL CONCRETE MARKER

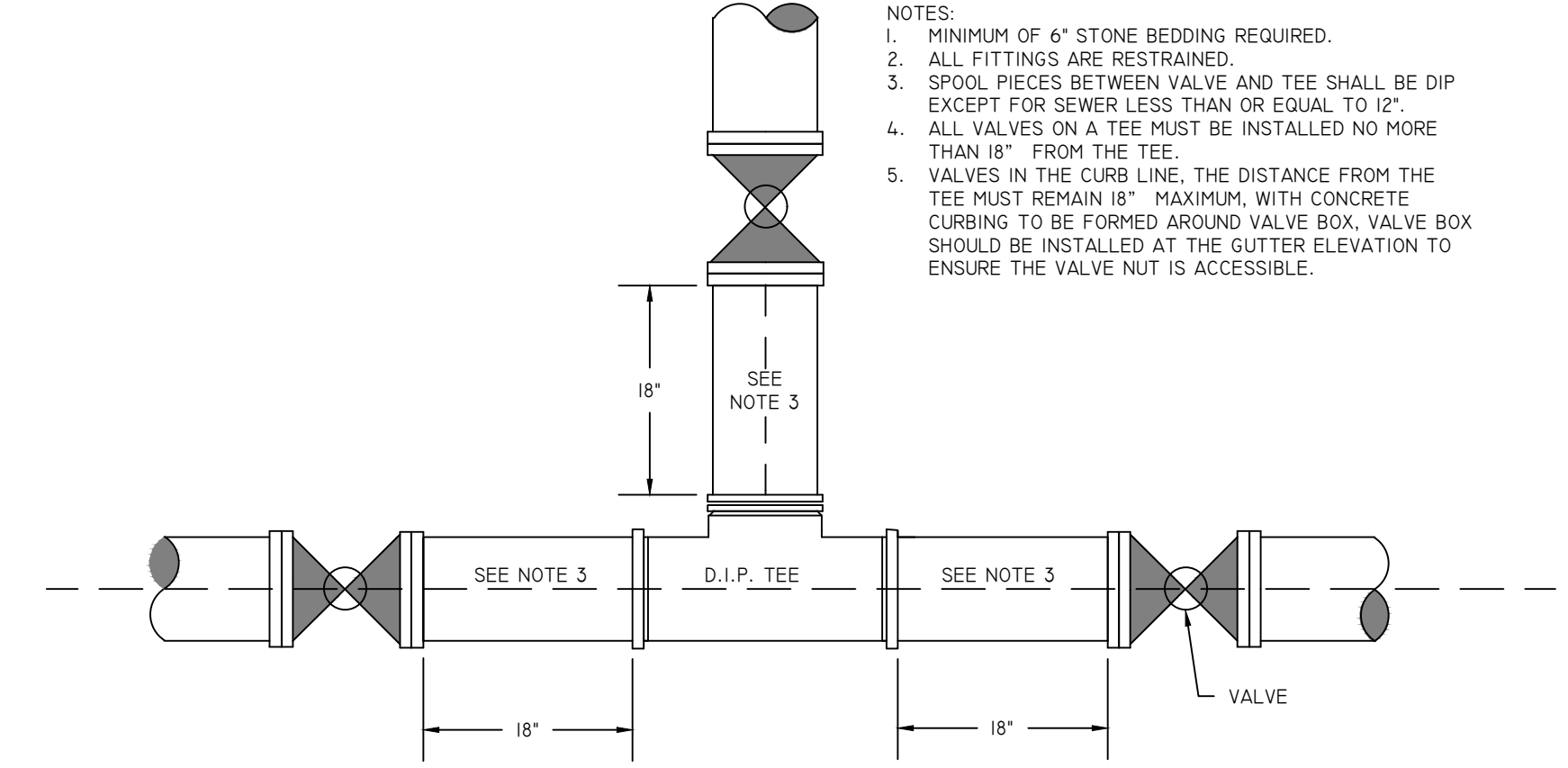
BEAUFORT-JASPER WATER & SEWER AUTHORITY			
STANDARD VALVE DETAIL			
DATE 07/01/09	DRAWN BY BMC	DATE 07/01/09	DRAWING # G-12
SCALE N.T.S.	APPROVED BY ERS	DATE 07/01/09	DRAWING # G-12



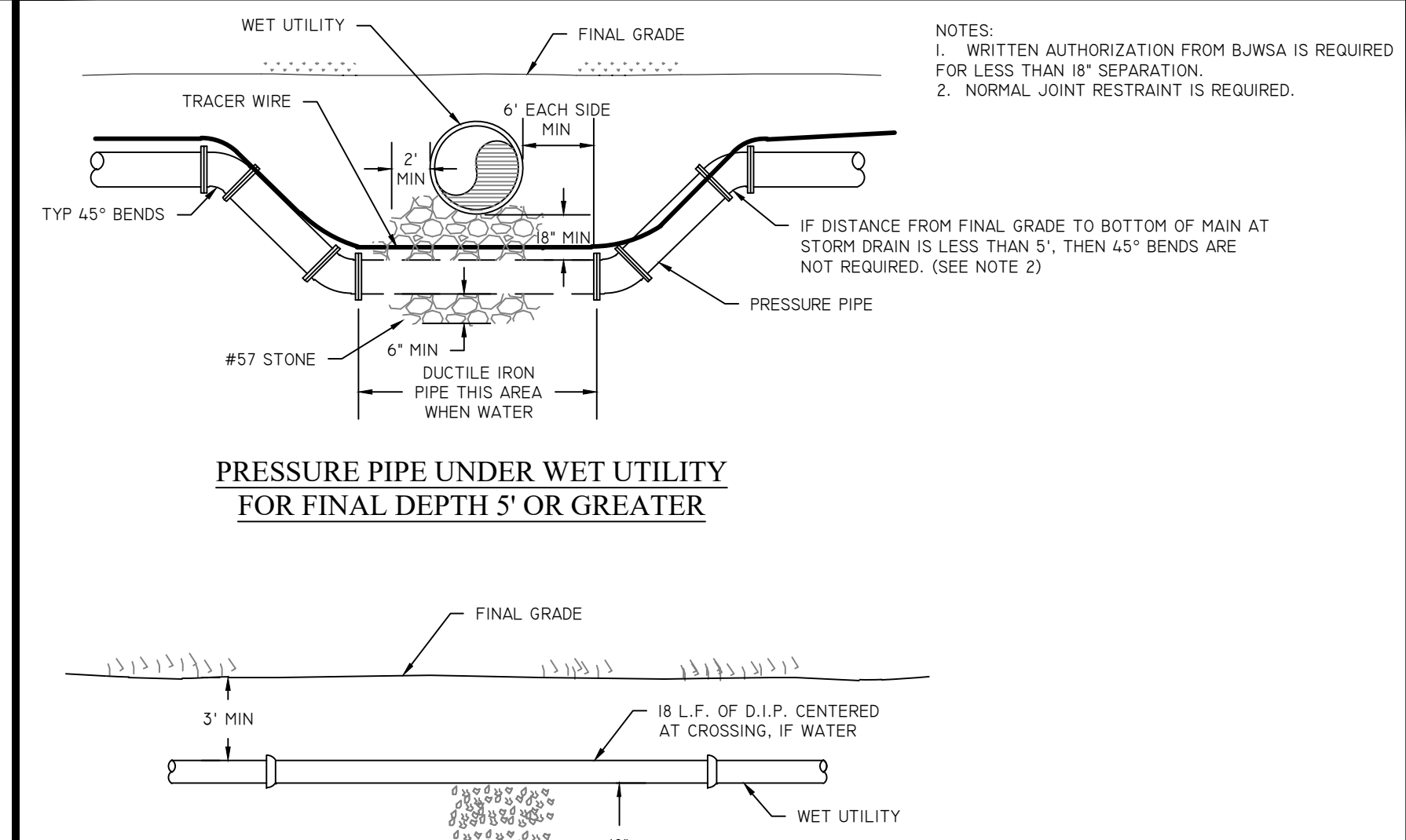
BEAUFORT-JASPER WATER & SEWER AUTHORITY			
TAPPING SLEEVE & VALVE DETAIL			
DATE 07/01/09	DRAWN BY BMC	DATE 07/01/09	DRAWING # G-13
SCALE N.T.S.	APPROVED BY ERS	DATE 07/01/09	DRAWING # G-13



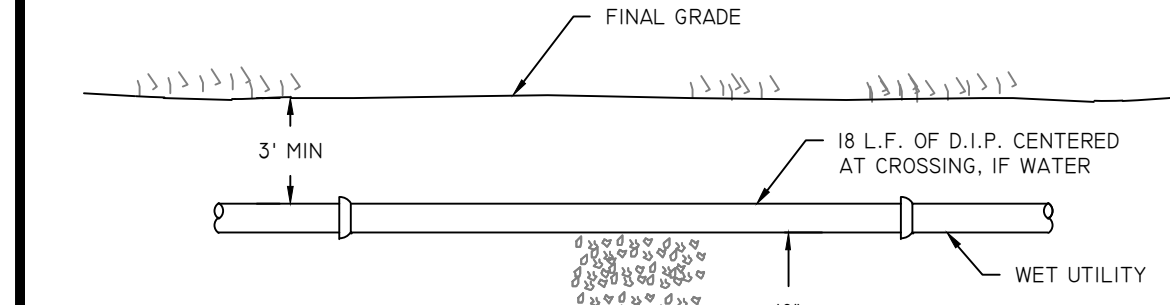
BEAUFORT-JASPER WATER & SEWER AUTHORITY			
2" CONNECTION			
DATE 07/01/09	DRAWN BY BMC	DATE 07/01/09	DRAWING # G-14
SCALE N.T.S.	APPROVED BY ERS	DATE 07/01/09	DRAWING # G-14



BEAUFORT-JASPER WATER & SEWER AUTHORITY			
TEE AND VALVES			
DATE 07/01/09	DRAWN BY BMC	DATE 07/01/09	DRAWING # G-15
SCALE N.T.S.	APPROVED BY ERS	DATE 07/01/09	DRAWING # G-15

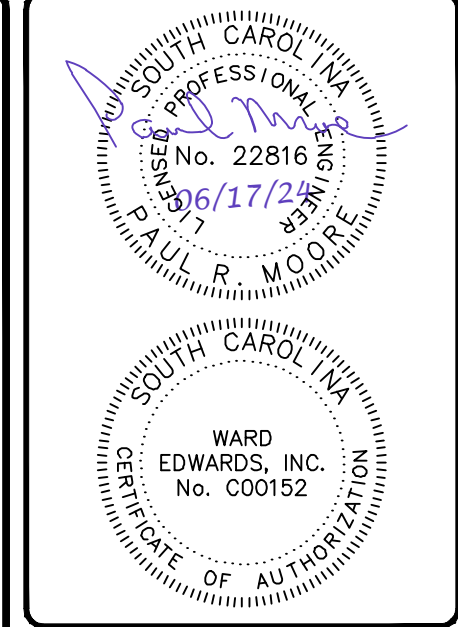


**PRESSURE PIPE UNDER WET UTILITY
FOR FINAL DEPTH 5' OR GREATER**



WET UTILITY CROSSING

BEAUFORT-JASPER WATER & SEWER AUTHORITY			
WET UTILITY CROSSING			
DATE 07/01/09	DRAWN BY BMC	DATE 07/01/09	DRAWING # G-16
SCALE N.T.S.	APPROVED BY ERS	DATE 07/01/09	DRAWING # G-16



Plan Revisions	
No.	Date
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www.WardEdwards.com

Buckwalter Parkway Healthcare
Town of Bluffton, South Carolina
Prepared for
e4h Environments for Health Architecture
Utility Details

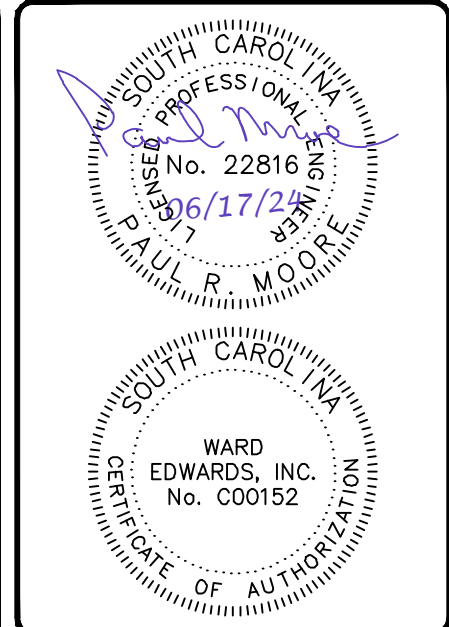
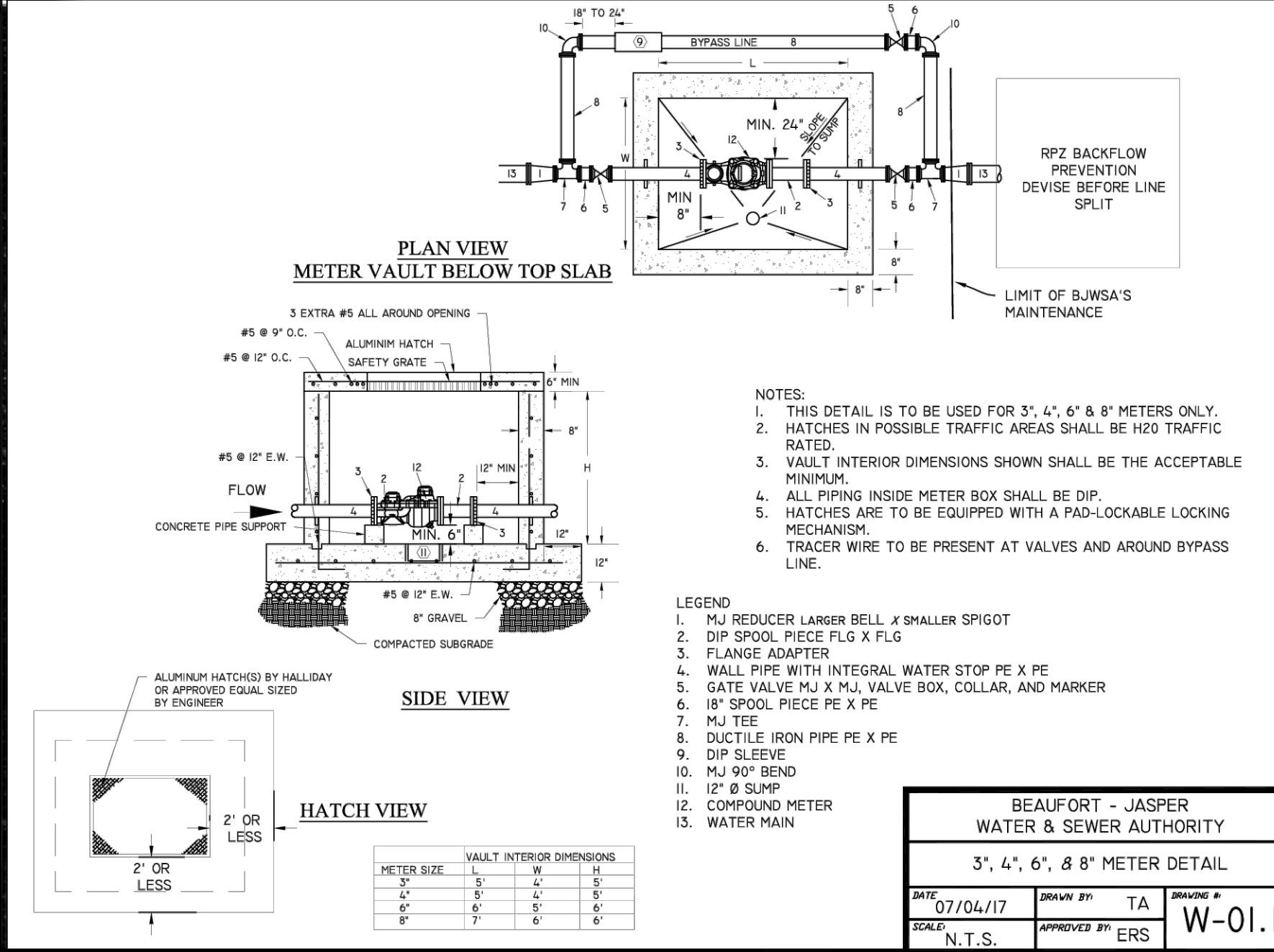
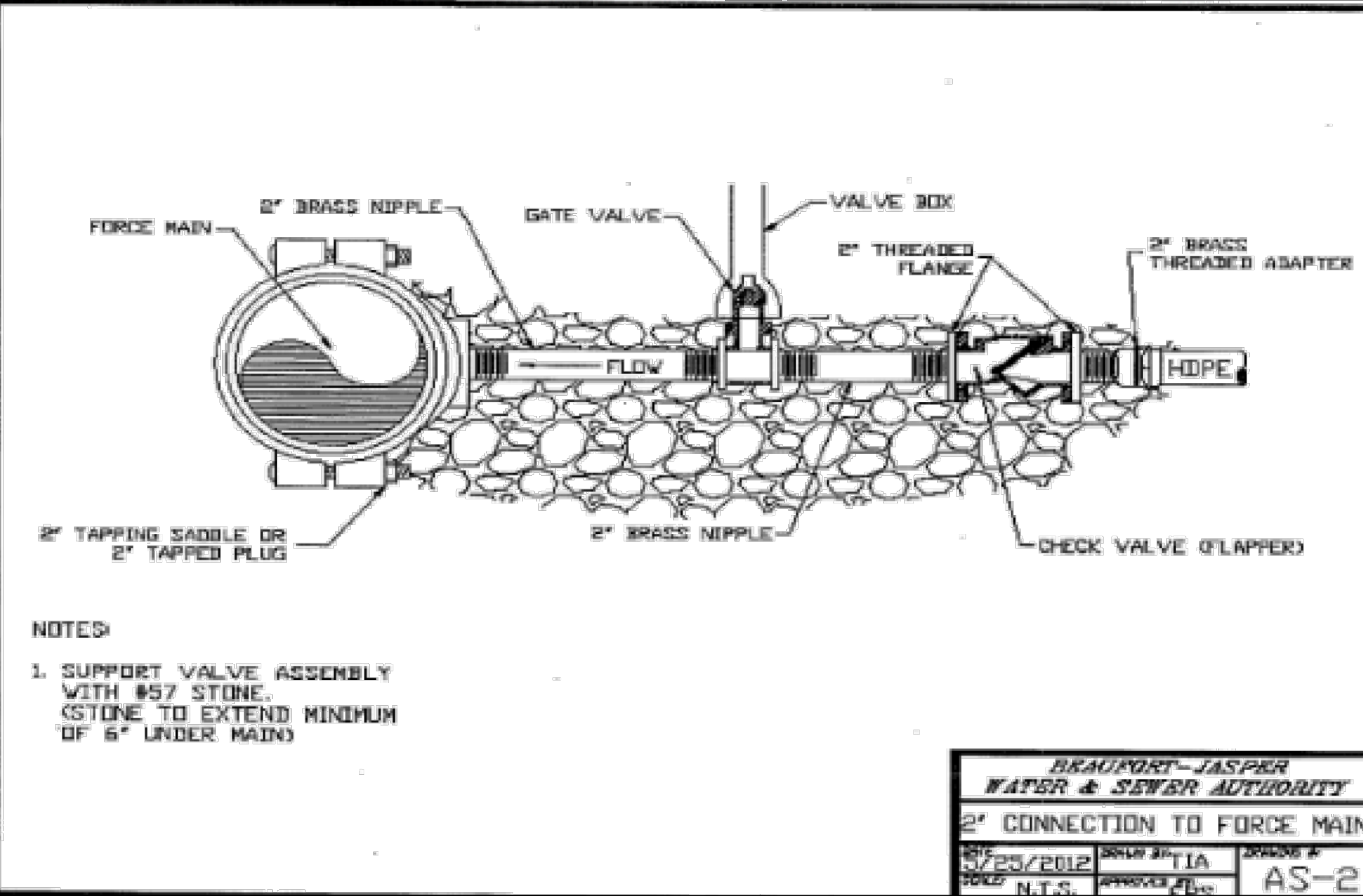
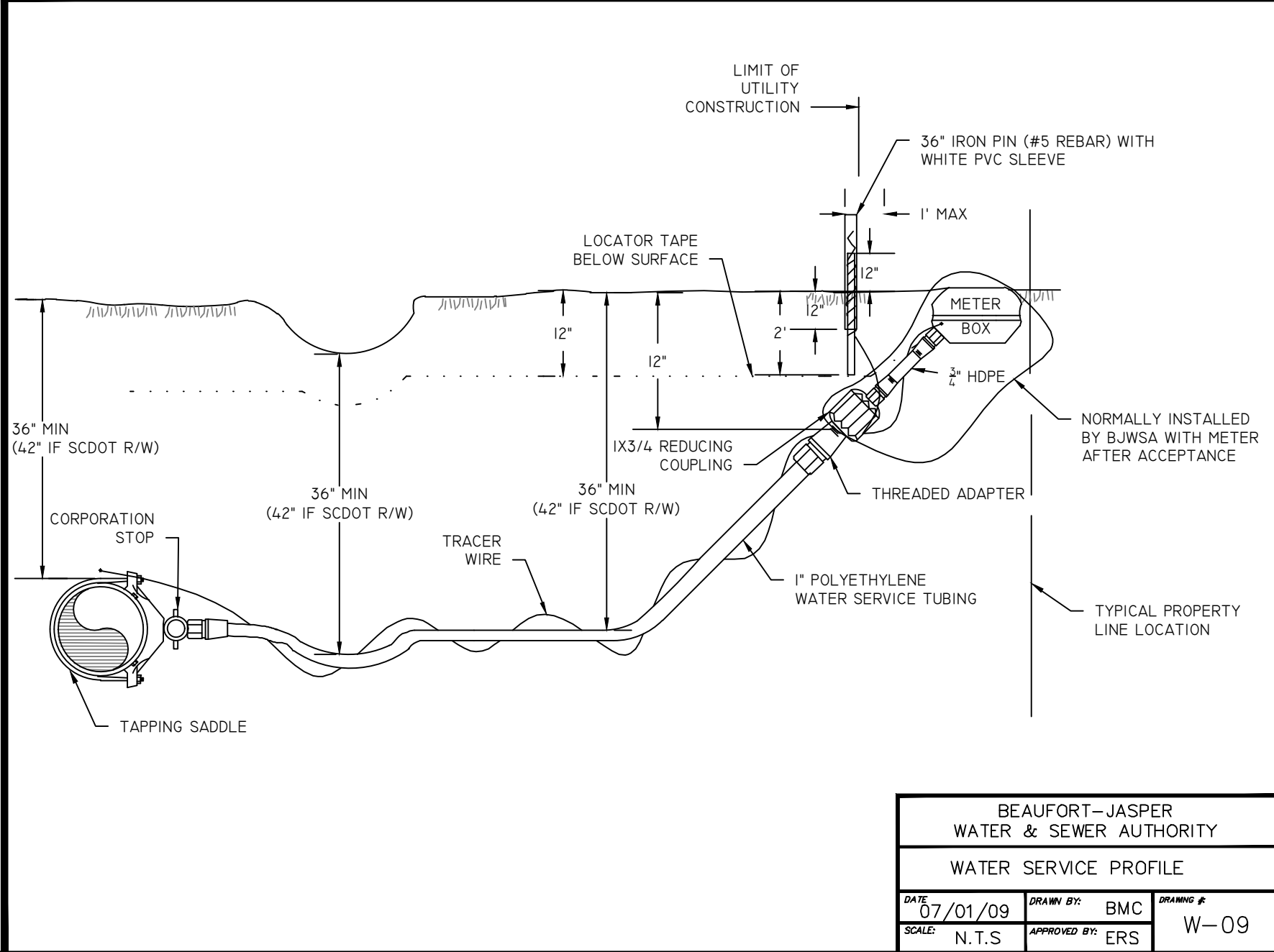
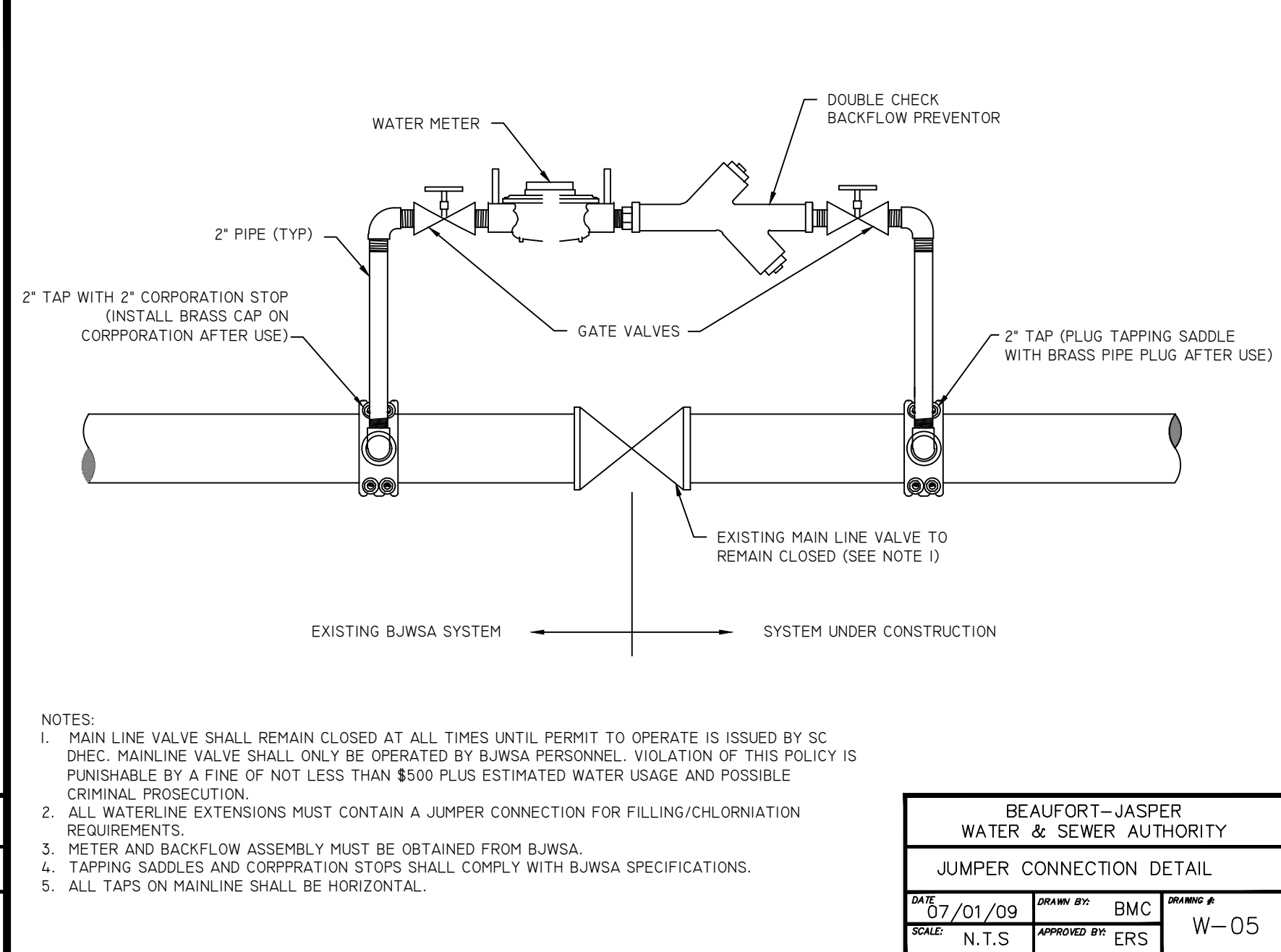
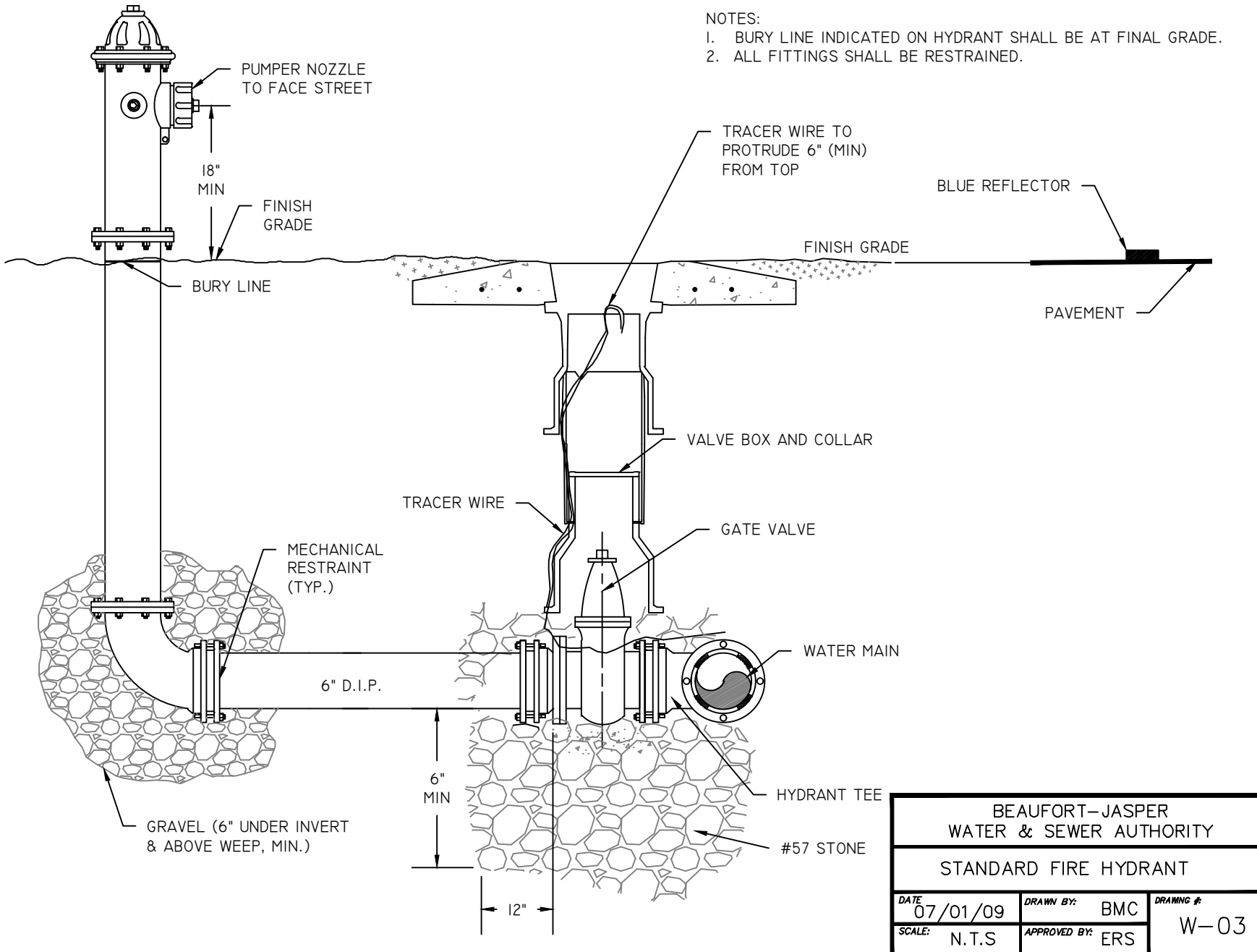
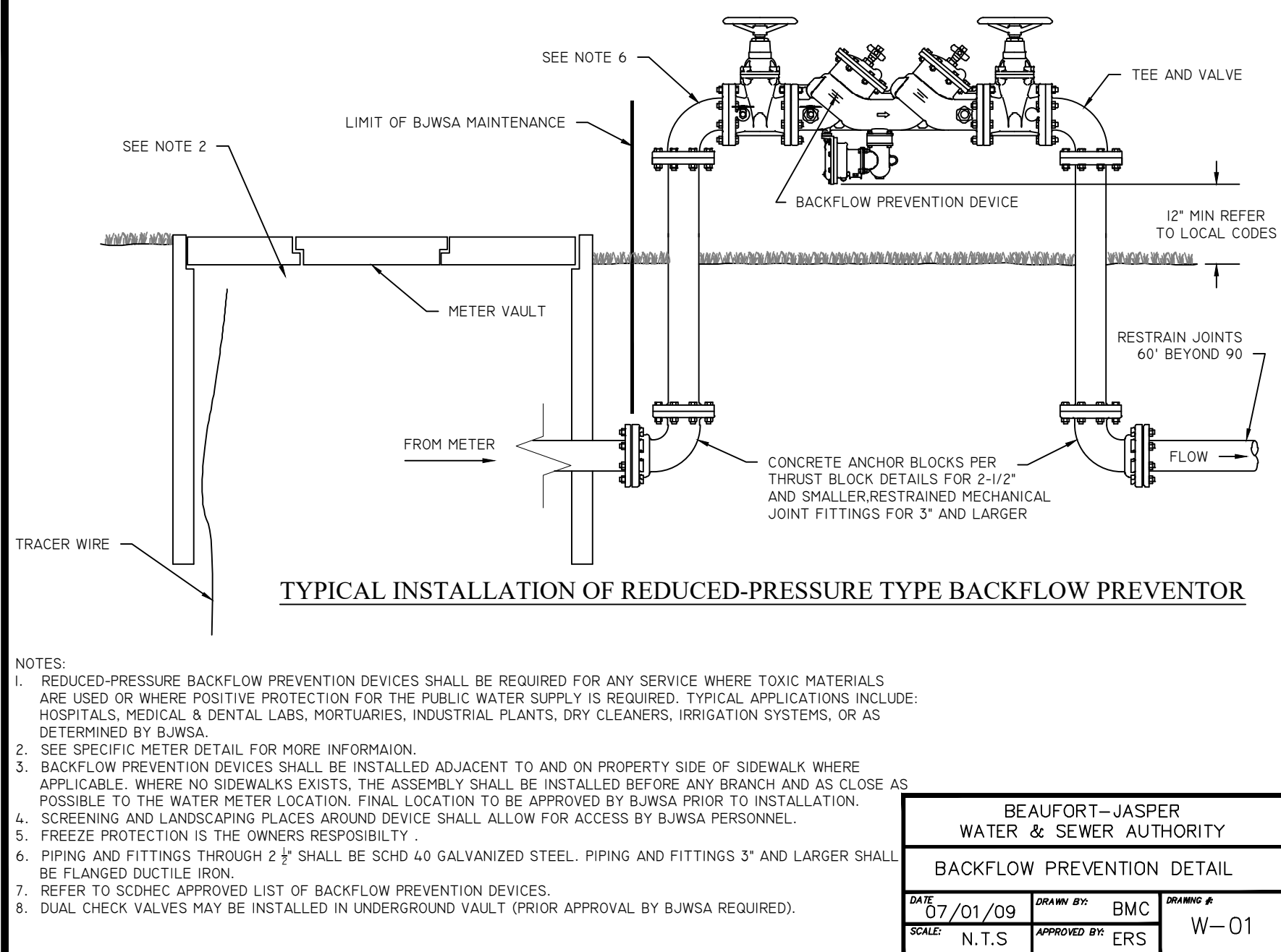
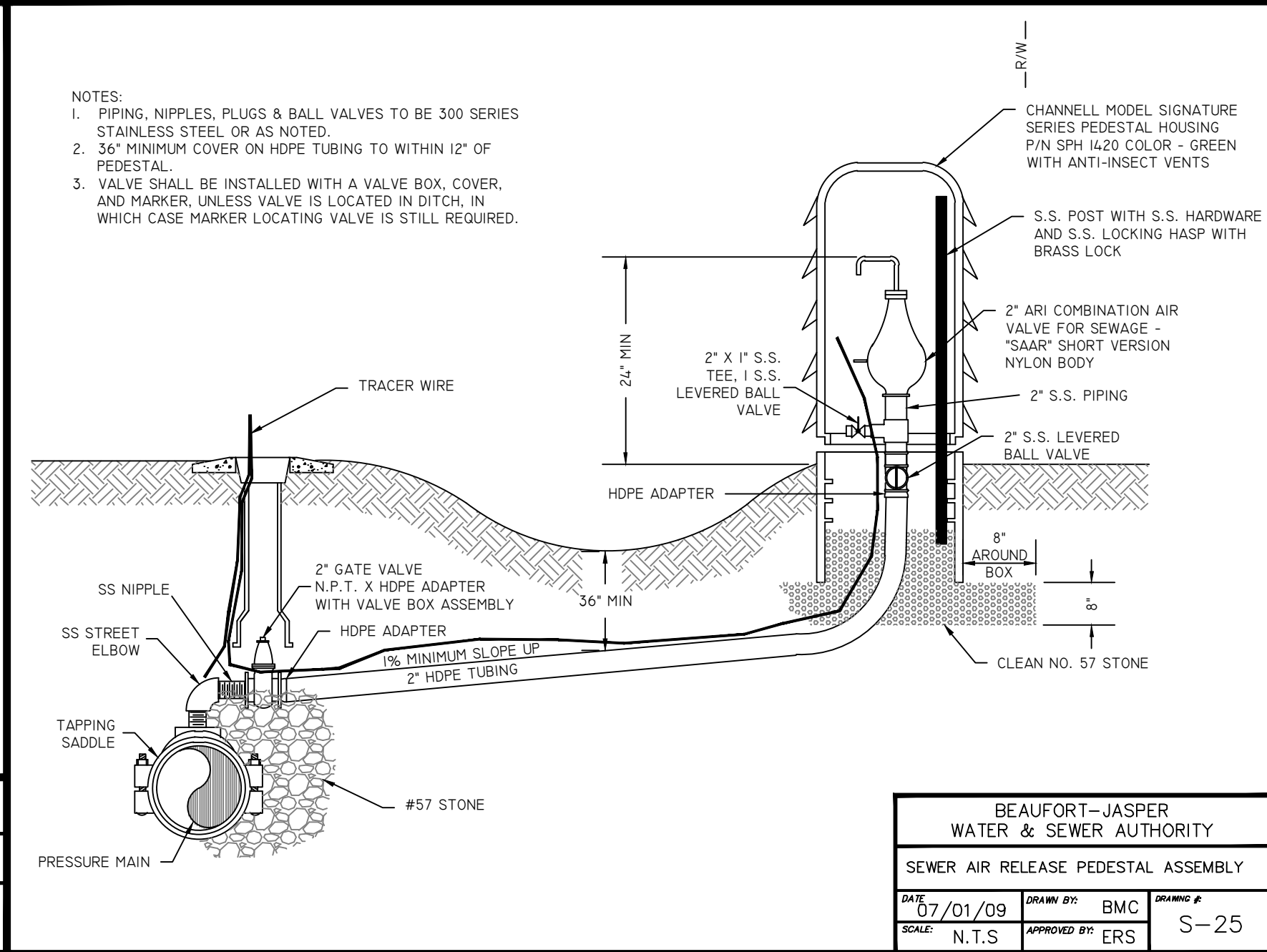
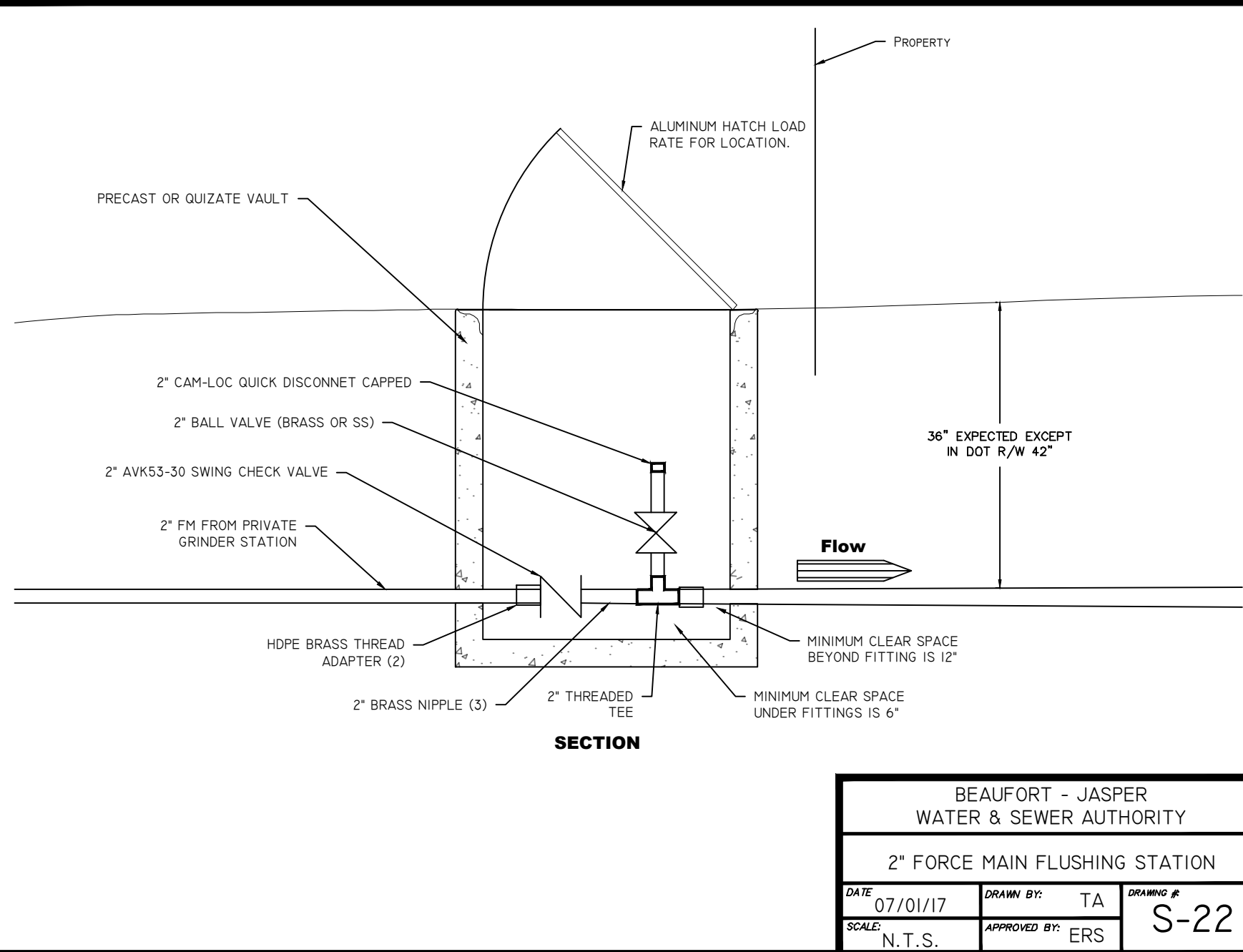
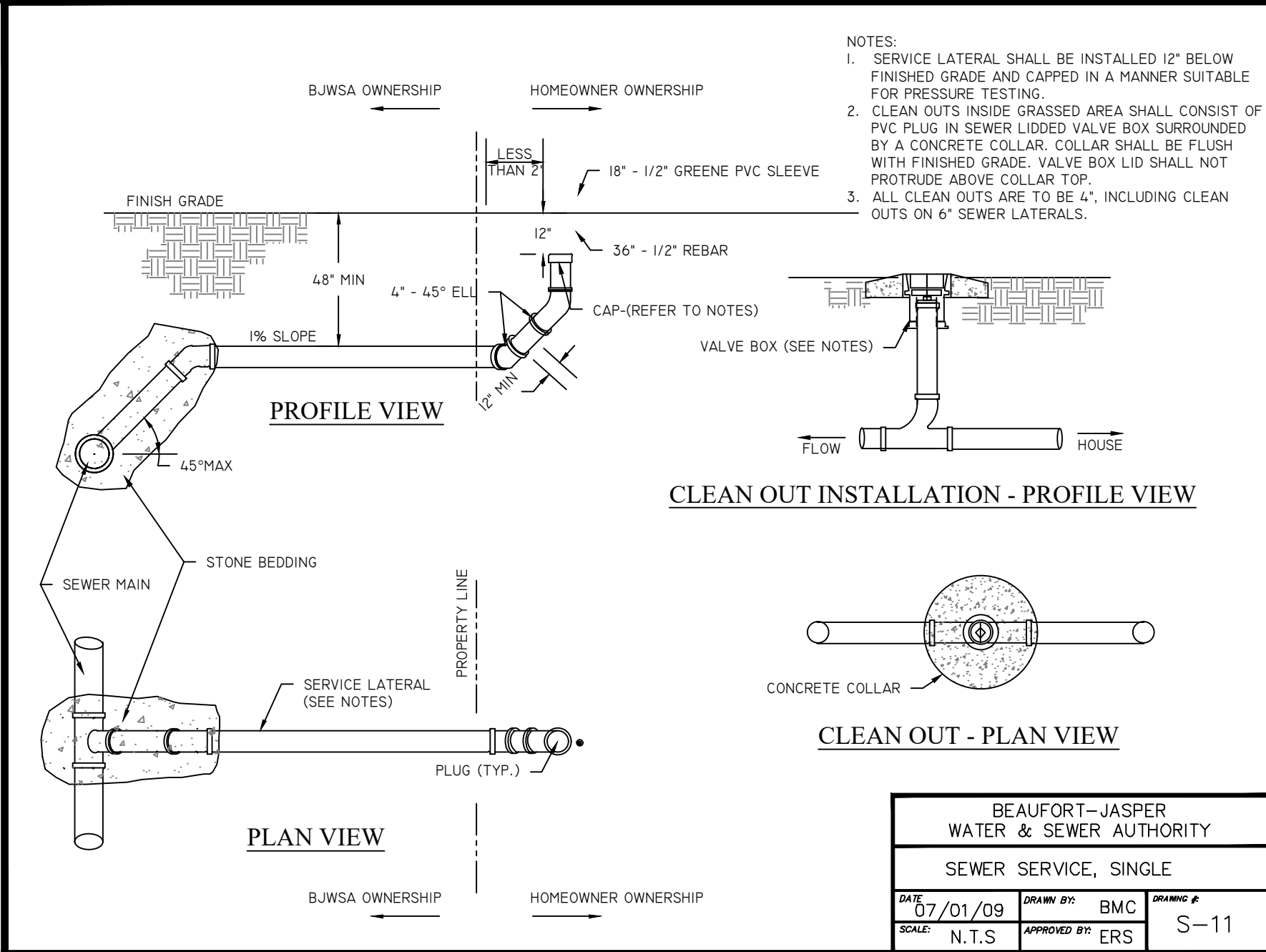
Vert. Datum:	NAVD88
Horiz. Datum:	NAD83
Project #:	230640
Date:	06/17/24
Designed by:	LYJ
Checked by:	CPB

Not to Scale

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Buckwalter Parkway Healthcare
Town of Bluffton, South Carolina

Prepared for
e4h Environments for Health Architecture

Utility Details

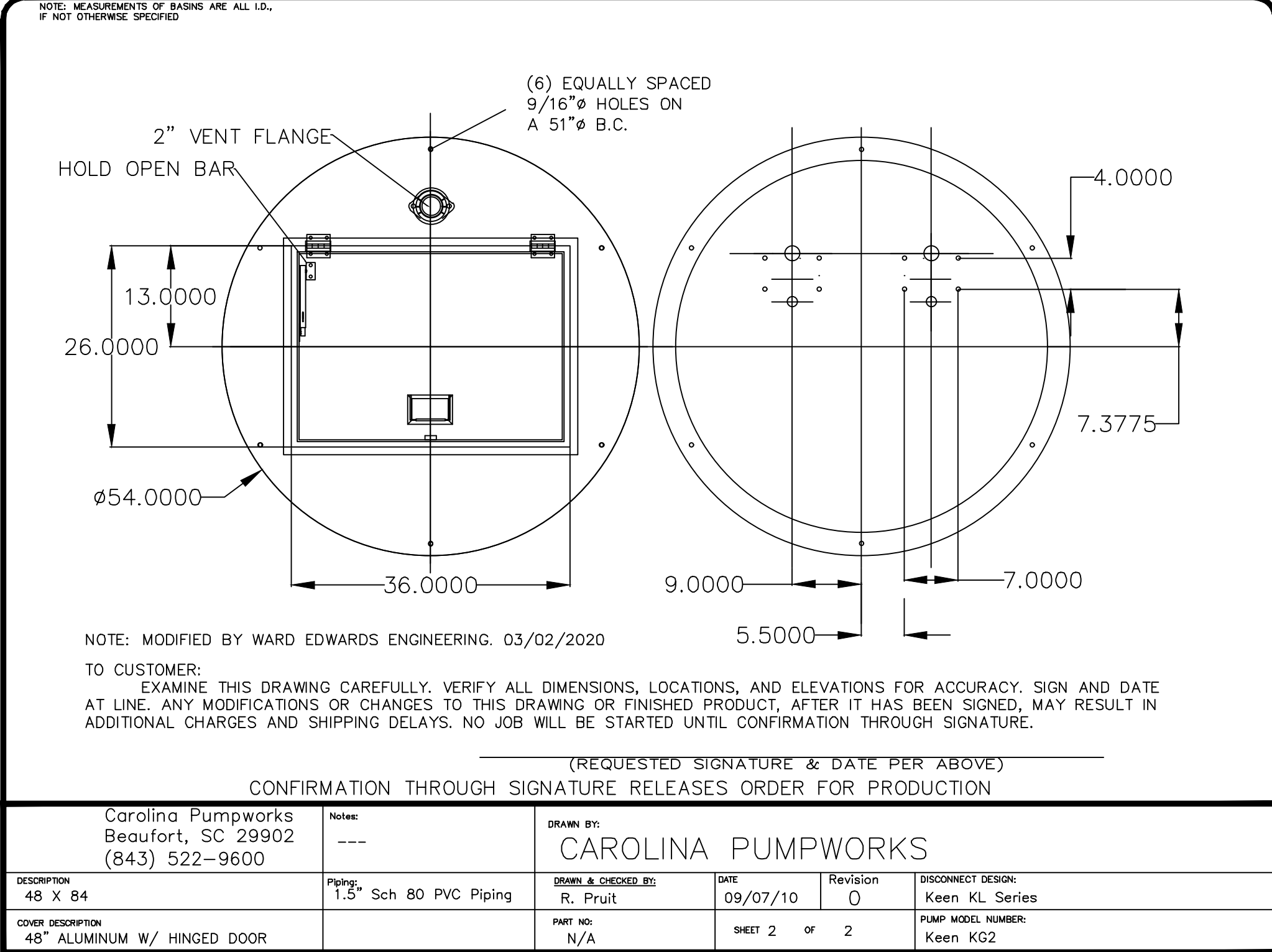
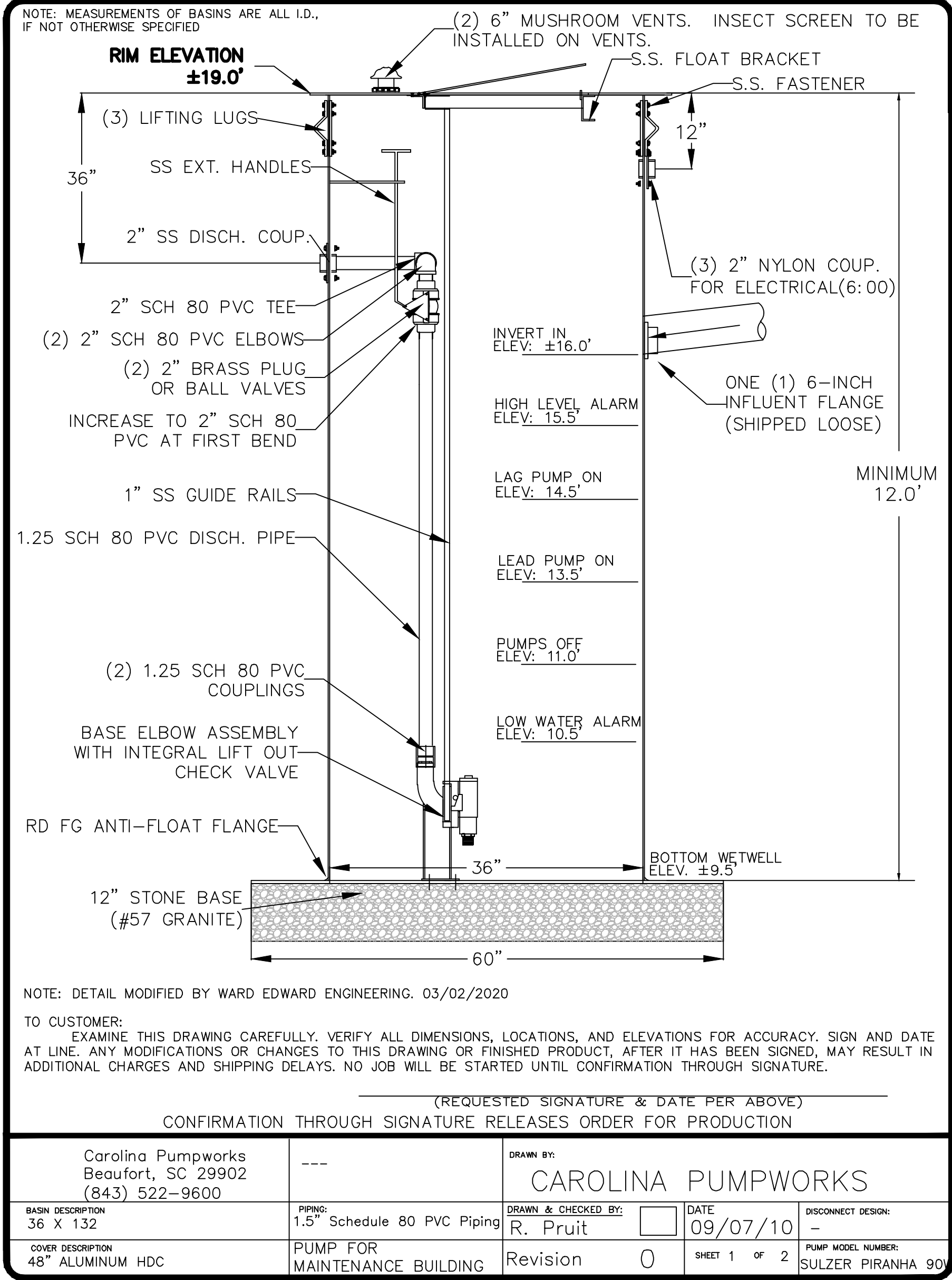
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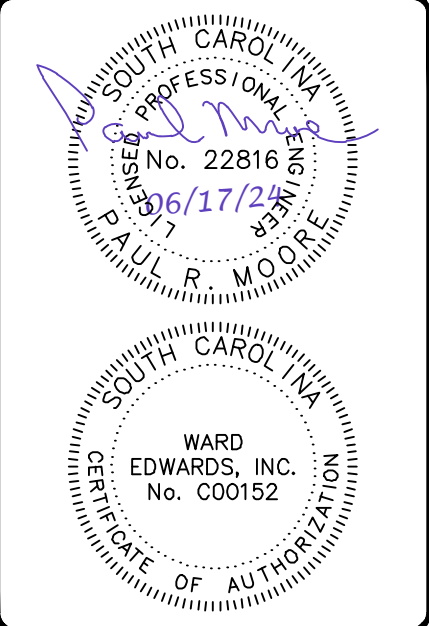
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DUPLEX SEWAGE GRINDER LIFT STATIONS TO INCLUDE THE FOLLOWING:

1. TWO SULZER 2.3-HORSEPOWER, 3390-RPM, 230-VOLT, SINGLE-PHASE, 60-HERTZ SUBMERSIBLE SEWAGE GRINDER PUMP. THE PUMP INCLUDES THE FOLLOWING: CAST IRON CONSTRUCTION, DUCTILE IRON RECESSED VORTEX STYLE IMPELLER, STAINLESS STEEL SHAFT, UPPER AND LOWER SILICON CARBIDE MECHANICAL SHAFT SEALS, SEAL FAILURE SENSOR, MOTOR WINDING THERMAL SENSOR, STAINLESS STEEL FASTENERS, STAINLESS STEEL LIFTING BAIL, STAINLESS STEEL SHREDDING RING AND GRINDING IMPELLER AND 40-FOOT LONG POWER/CONTROL CABLES.
2. ONE 36" DIAMETER BY MINIMUM 138" (11.5-FOOT) DEEP DUPLEX FIBREGLASS BASIN SYSTEM INCLUDING THE FOLLOWING: 60" DIAMETER ANTI-FLOAT FLANGE, LIFTING LUGS, ALUMINIUM COVER WITH HINGED PAD-LOCKABLE ACCESS HATCH, HATCH HOLD OPEN ARM AND 2-INCH MUSHROOM VENT, STAINLESS STEEL FLOAT MOUNTING BRACKET, TWO (2) PUMP GUIDE SYSTEMS WITH CAST IRON BASE ELBOWS, STAINLESS STEEL GUIDE RAILS AND STAINLESS STEEL GUIDE RAIL BRACKETS, 1.5" SCHEDULE 80 PVC DISCHARGE PIPING WITH A COMMON 2" STAINLESS STEEL DISCHARGE HUB LOCATED 36" DOWN FROM THE TOP OF THE BASIN, 2" BALL CHECK VALVES AND 2" GATE VALVES WITH STAINLESS STEEL EXTENSION HANDLES AND BRACKETS AND ONE (1) 6" ADAPTA-FLEX INFLUENT GROMMET SHIPPED LOOSE FOR ACCURATE FIELD LOCATION.
3. TWO STAINLESS STEEL PUMP LIFTING CHAIN AND SHACKLE KITS
4. DUPLEX PUMP CONTROL PANEL SIZED FOR 2-HORSEPOWER, 208-VOLT, SINGLE PHASE, 60-HERTZ SERVICE. THE CONTROL PANEL IS HOUSED INSIDE A NEMA 4X FIBERGLASS ENCLOSURE WITH DEAD FRONT, PAD-LOCKABLE ENTRY LATCH, INNER DOOR, POWER AND GROUND TERMINAL BLOCKS, PUMP CIRCUIT BREAKERS, CONTROL CIRCUIT BREAKERS, IEC RATED MOTOR STARTERS WITH ADJUSTABLE OVERLOADS, PHASE MONITOR, LIGHTNING/SURGE PROTECTION, ELAPSED TIME METERS, PUMP RUN LIGHTS, PUMP FAULT LIGHTS, DUPLEX FLOAT SWITCH ACTIVATED PUMP CONTROLLER WITH ALTERNATOR AND AUTO/1-2/2-1 SEQUENCE SELECTOR SWITCH, HAND-OFF-AUTO SWITCHES, HIGH WATER ALARM, FLASHING ALARM LIGHT MOUNTED ON TOP OF THE CONTROL PANEL AND AN AUDIBLE ALARM BUZZER WITH EXTERNAL PUSH TO SILENCE BUTTON.
5. FIVE FLOATS WITH 40-FOOT CORDS AND CORD WEIGHTS



Date		Description	Plan Revisions
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6	5		
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ENGINEERING

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Buckwalter Parkway Healthcare

Town of Bluffton, South Carolina

Prepared for

e4h Environments for Health Architecture

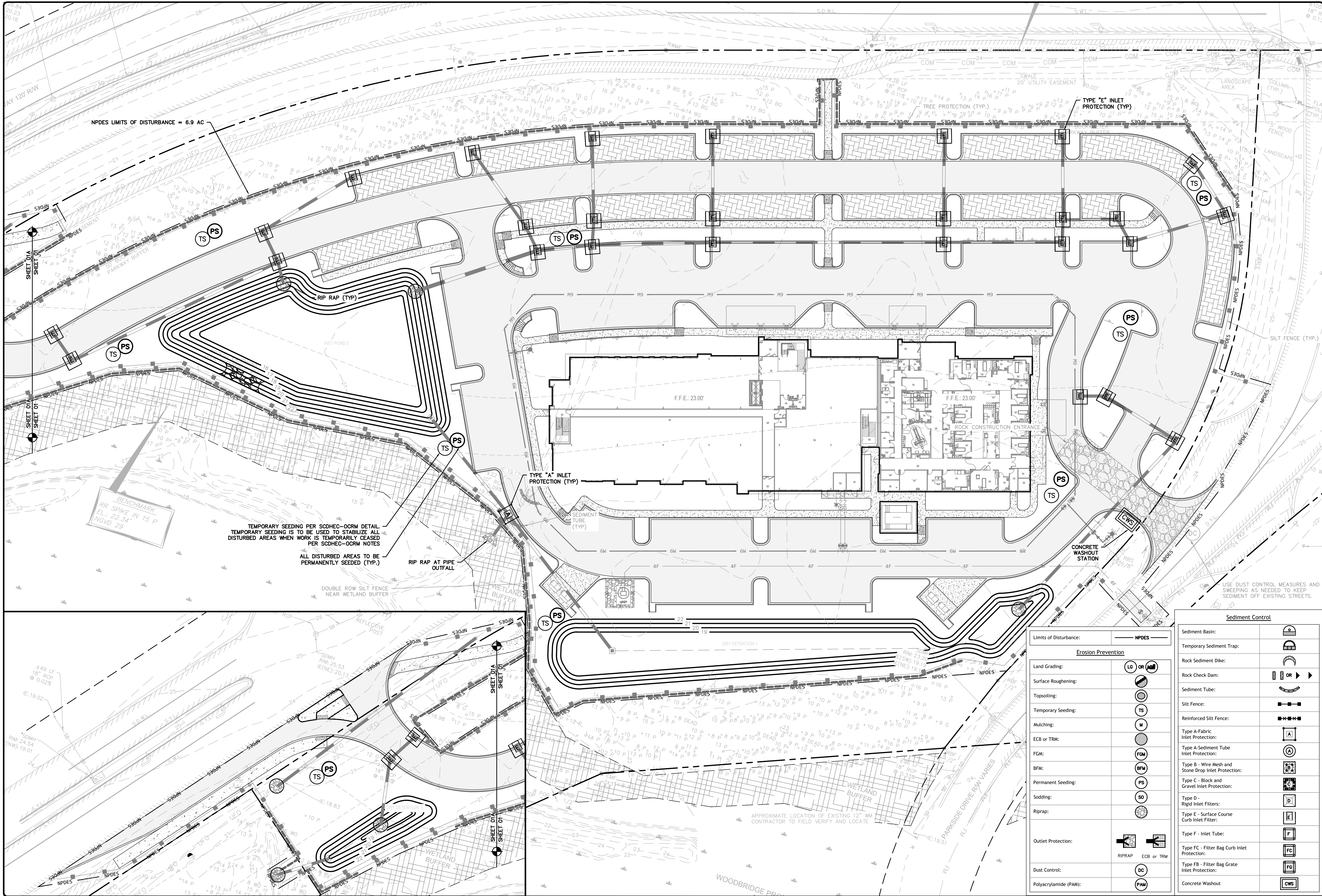
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WARD EDWARDS, INC.
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Professional Engineer
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06/17/24

No.	Description	Date
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Buckwalter Parkway Healthcare
Town of Bluffton, South Carolina

e4h Environments for Health Architecture

Intermediate & Final Erosion Control Plan

Vert. Datum:	NAVD88
Horiz. Datum:	NAD83
Project #:	230640
Date:	06/17/24
Designed by:	LYJ
Checked by:	CPB

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Feet

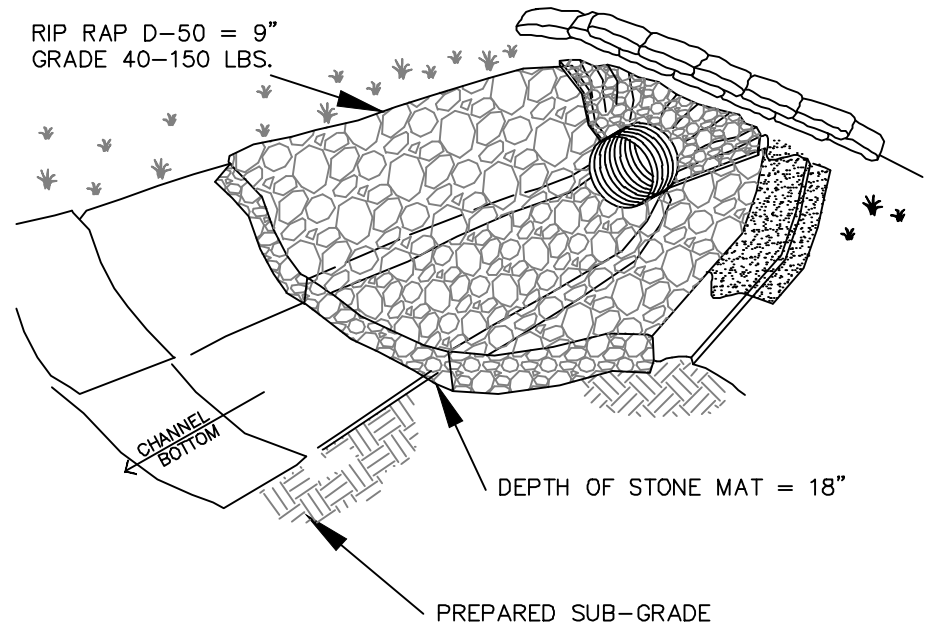
Scale: 1" = 30'

C801

Sediment Control	
Sediment Basin:	
Temporary Sediment Trap:	
Rock Sediment Dike:	
Rock Check Dam:	
Sediment Tube:	
Silt Fence:	
Reinforced Silt Fence:	
Type A-Fabric Inlet Protection:	
Type A-Sediment Tube Inlet Protection:	
Type B - Wire Mesh and Stone Drop Inlet Protection:	
Type C - Block and Gravel Inlet Protection:	
Type D - Rigid Inlet Filters:	
Type E - Surface Course Curb Inlet Filter:	
Type F - Inlet Tube:	
Type FC - Filter Bag Curb Inlet Protection:	
Type FB - Filter Bag Grate Inlet Protection:	
Concrete Washout	

Erosion Prevention	
Limits of Disturbance:	NPDES
Land Grading:	L6 OR
Surface Roughening:	
Topsiding:	
Temporary Seeding:	TS
Mulching:	M
ECB or TRM:	
FGM:	FGM
BFM:	BFM
Permanent Seeding:	PS
Sodding:	SO
Riprap:	
Outlet Protection:	
Dust Control:	DC
Polyacrylamide (PAM):	PAM

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NOTES:

1. PLACE ALL RIP RAP ON 8 OUNCE NON-WOVEN FILTER CLOTH.
2. STAKING OF FILTER CLOTH PER MANUFACTURER'S SPECIFICATIONS.
3. LENGTH OF OUTLET STABILIZATION = 8 TIMES PIPE DIA.
TOP WIDTH OF OUTLET STABILIZATION = 3 TIMES PIPE DIA.
BOTTOM WIDTH OF OUTLET STABILIZATION = 6 TIMES PIPE DIA.

RIP RAP OUTLET STABILIZATION DETAIL

DETAIL #02370-009

TEMPORARY SEEDING – COASTAL

SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET	40 LBS/AC												
RYE, GRAIN	56 LBS/AC												
RYEGRASS	50 LBS/AC												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET OR JAPANESE MILLET	40 LBS/AC												
RYE, GRAIN OR OATS	56 LBS/AC 75 LBS/AC												
RYEGRASS	50 LBS/AC												

- TYPE A – FILTER FABRIC REQUIREMENTS**
1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
 - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
 - Free of any treatment or coating which might adversely alter its physical properties after installation;
 - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
 - Have a minimum width of 36-inches.
 2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
 3. 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
 4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
 5. Filter Fabric shall be installed at a minimum of 24-inches above the ground.
- TYPE A – POST REQUIREMENTS**
1. Silt Fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics:
 - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
 - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
 - Weigh 1.25 pounds per foot (± 8%)
 2. Posts shall be equipped with projections to aid in fastening of filter fabric.
 3. Install posts to a minimum of 24-inches. A minimum height of 1- to 2- inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
 4. Post spacing shall be at a maximum of 3-feet on center.

- TYPE A – INSPECTION & MAINTENANCE**
1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
 2. Regular inspections of inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
 3. Attention to sediment accumulations along the filter fabric is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
 4. Remove accumulated sediment when it reaches 1/3 the height of the filter fabric. When a sump is installed in front of the fabric, sediment should be removed when it fills approximately 1/3 the depth of the sump.
 5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
 6. Check for areas where stormwater runoff has eroded a channel beneath the filter fabric, or where the fabric has sagged or collapsed due to runoff overtopping the inlet protection.
 7. Check for tears within the filter fabric, areas where fabric has begun to decompose, and for any other circumstance that may render the inlet protection ineffective. Removed damaged fabric and reinstall new filter fabric immediately.
 8. Inlet protection structures should be removed after all the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

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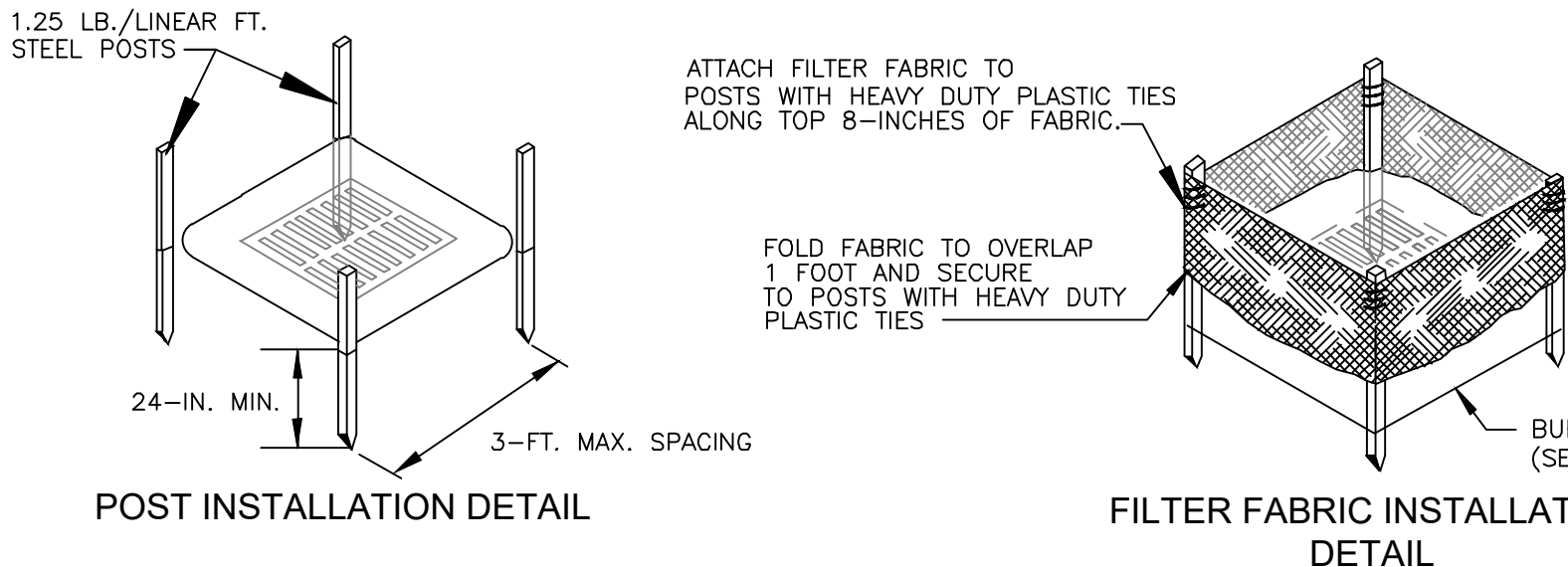
Type A

FILTER FABRIC INLET PROTECTION

STANDARD DRAWING NO. SC-07 PAGE 2 of 2

GENERAL NOTES

FEBRUARY 2014 DATE



South Carolina Department of Health and Environmental Control

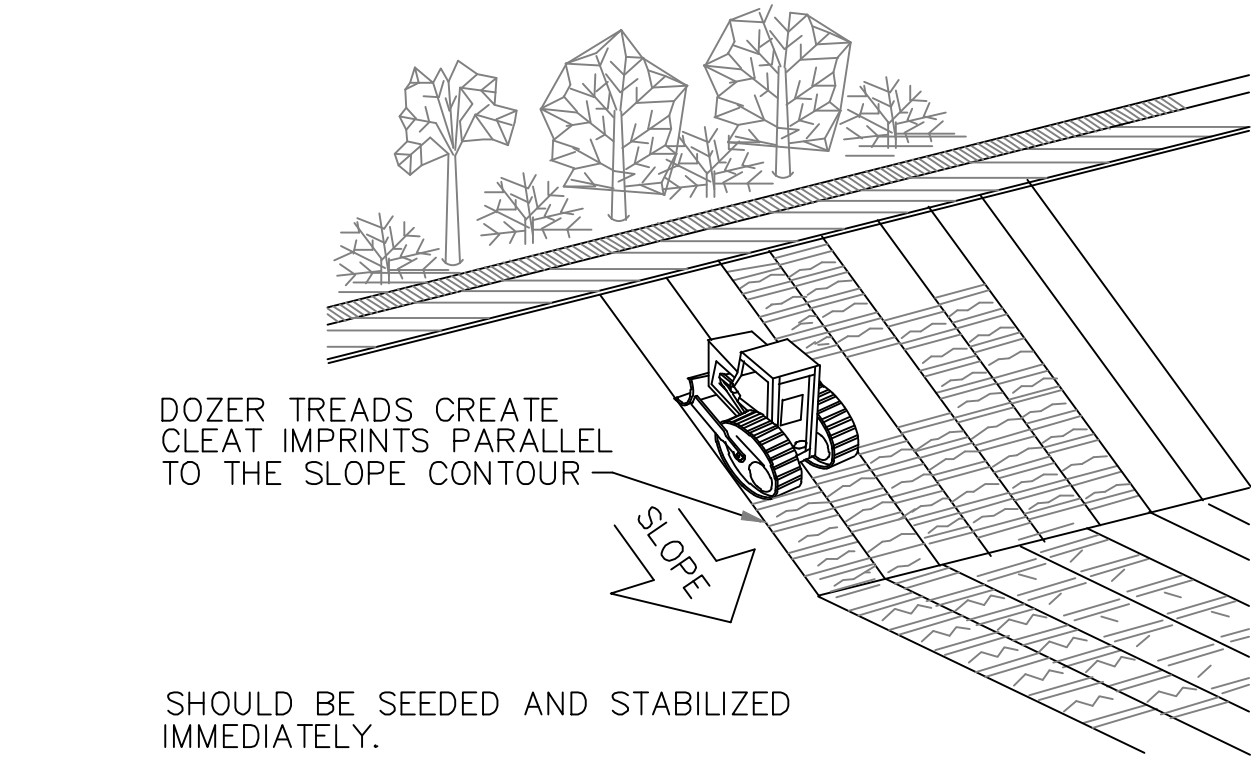
Type A

FILTER FABRIC INLET PROTECTION

STANDARD DRAWING NO. SC-07 PAGE 1 of 2

NOT TO SCALE

FEBRUARY 2014 DATE



South Carolina Department of Health and Environmental Control

TRACKING

STANDARD DRAWING NO. EC-01 Page 1

APPROVED BY: SCDEC

AUGUST, 2005 DATE

TYPE F – INLET TUBES INLET PROTECTION

GENERAL NOTES

1. Inlets tubes should be composed of compacted geotextiles, curled excelsior wood, natural coconut fibers, a hardwood mulch, or a mix of these materials enclosed by a flexible netting material.
2. Inlets tubes should utilize an outer netting that consists of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material. Curled wood excelsior fiber, or natural coconut fiber rolled erosion control products rolled up to create an inlet tube device are not allowed.
3. Do not use straw, straw fiber, straw bales, pine needles, or leaf mulch as fill material within inlet tubes.
4. Weighted inlet tubes must be capable of staying in place without external stabilization measures and may have a weighted inner core or other weighted mechanism to keep them in place.
5. Install weighted tubes lying flat on the ground, with no gaps between the underlying surface and the inlet tube. Do not stack inlet tubes. Do not completely block inlet with tube.
6. Non-weighted inlet tubes require staking or other stabilization methods to keep them safely in place.
7. Overflow or overtopping of inlet tubes must be allowed to flow into inlet unobstructed.
8. To avoid possible flooding, two or three concrete cinder blocks may be placed between the tube and the inlet.

INSPECTION AND MAINTENANCE

1. The key to functional inlet protection is weekly inspection, routine maintenance, and regular sediment removal.
2. Regular inspections of all inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the blocks. If a sump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. Replace inlet tube when damaged or as recommended by manufacturer's specifications.
8. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

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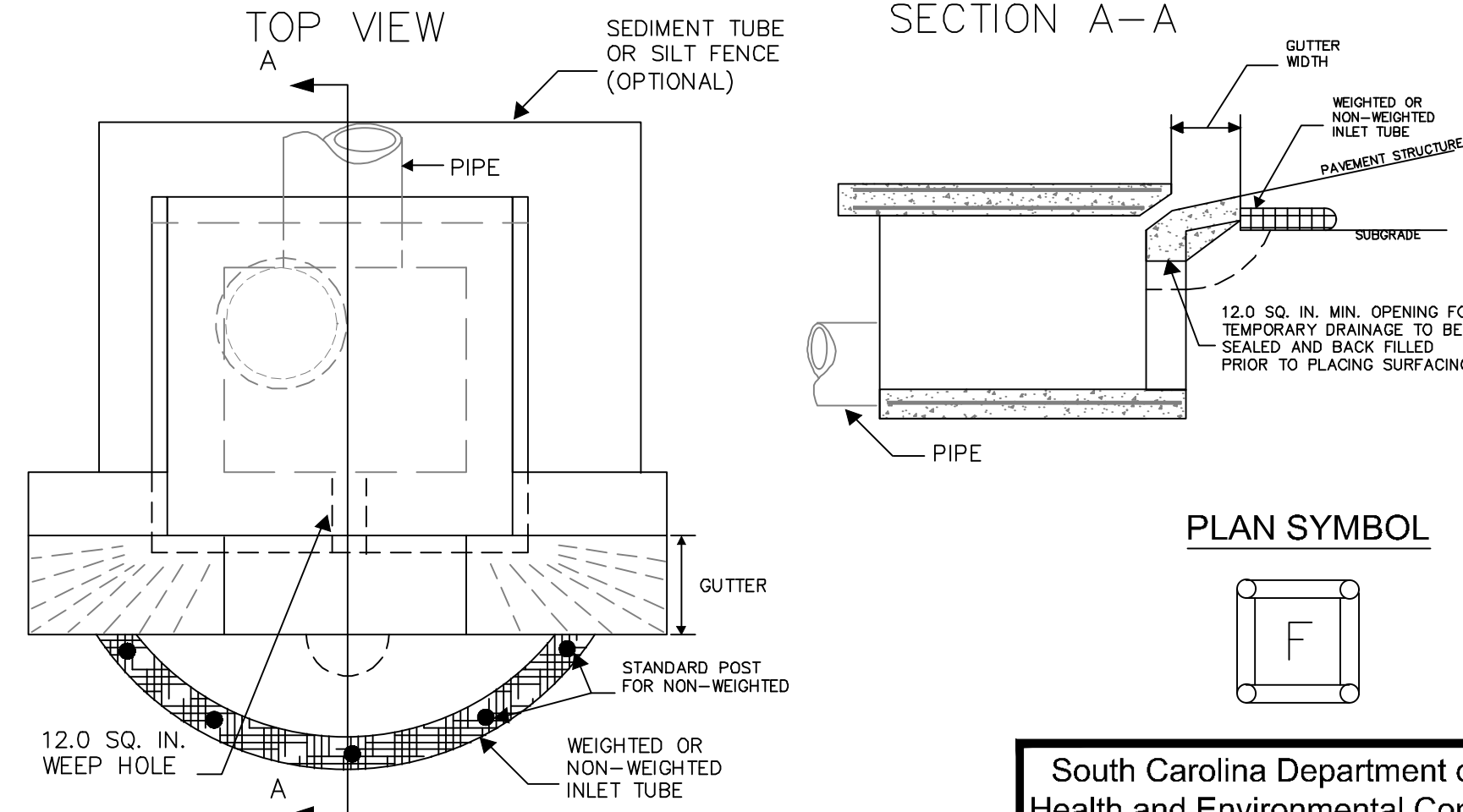
Type F

INLET TUBES

STANDARD DRAWING NO. SC-11 PAGE 2 of 2

GENERAL NOTES

FEBRUARY 2014 DATE



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Type F

INLET TUBES

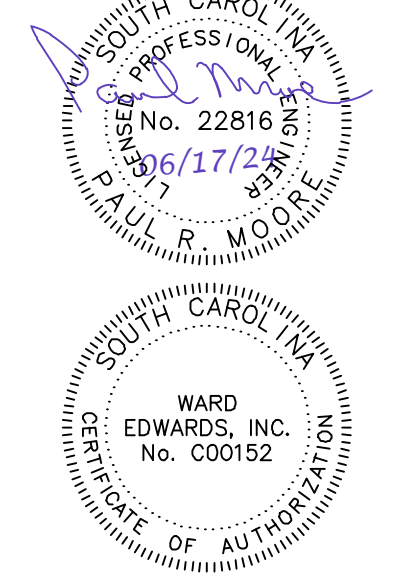
STANDARD DRAWING NO. SC-11 PAGE 1 of 2

NOT TO SCALE

FEBRUARY 2014 DATE

TS TEMPORARY SEEDING - COASTAL

DETAIL 02370-011



No.	Description	Date
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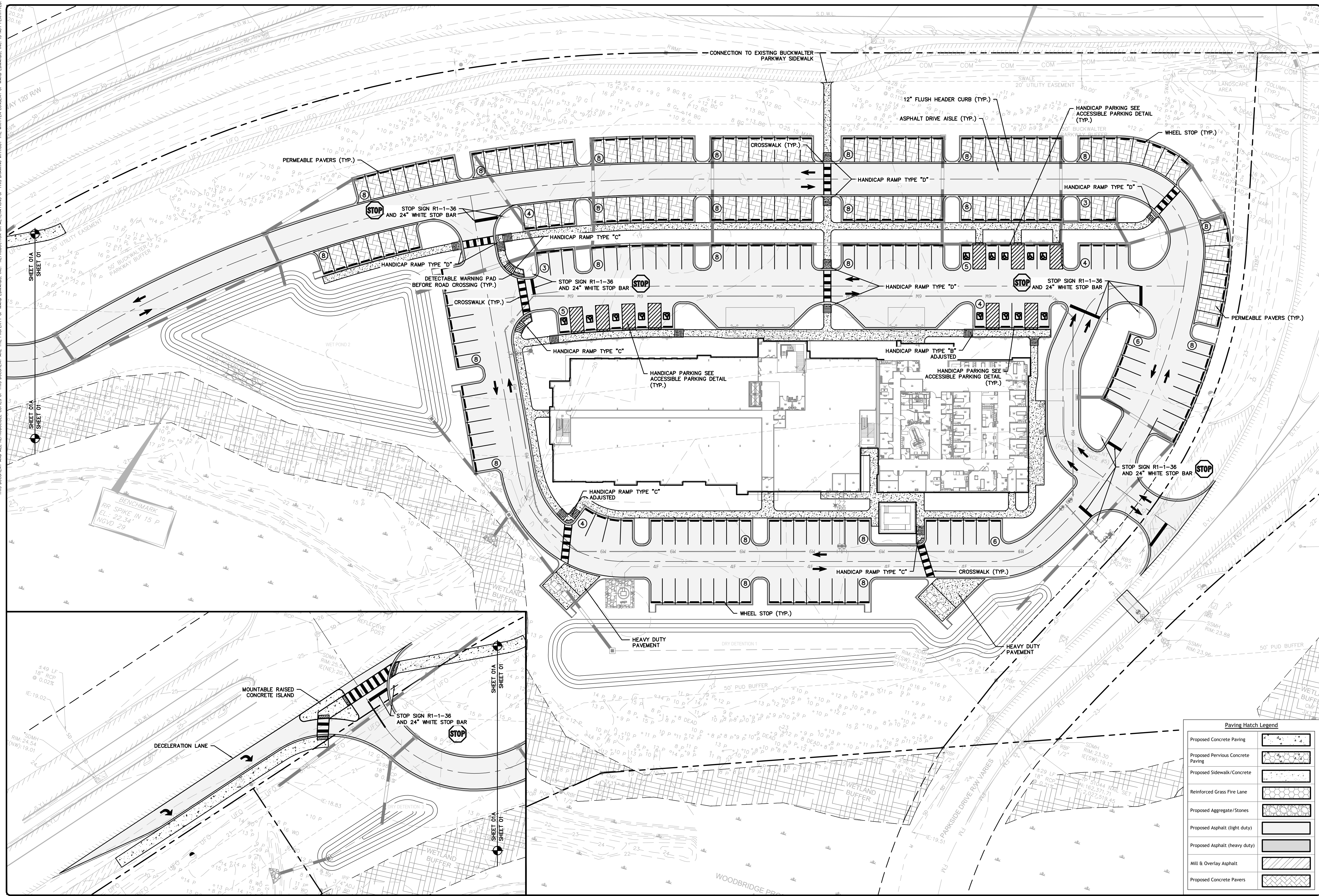
Intermediate Erosion Control Details

Vert. Datum:	NAVD88
Horiz. Datum:	NAD83
Project #:	230640
Date:	06/17/24
Designed by:	LYJ
Checked by:	CPB

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C802

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BENCHMARK
RR SPIKE IN 15 P
NGVD 29

Paving Hatch Legend	
Proposed Concrete Paving	
Proposed Pervious Concrete Paving	
Proposed Sidewalk/Concrete	
Reinforced Grass Fire Lane	
Proposed Aggregate/Stones	
Proposed Asphalt (light duty)	
Proposed Asphalt (heavy duty)	
Mill & Overlay Asphalt	
Proposed Concrete Pavers	

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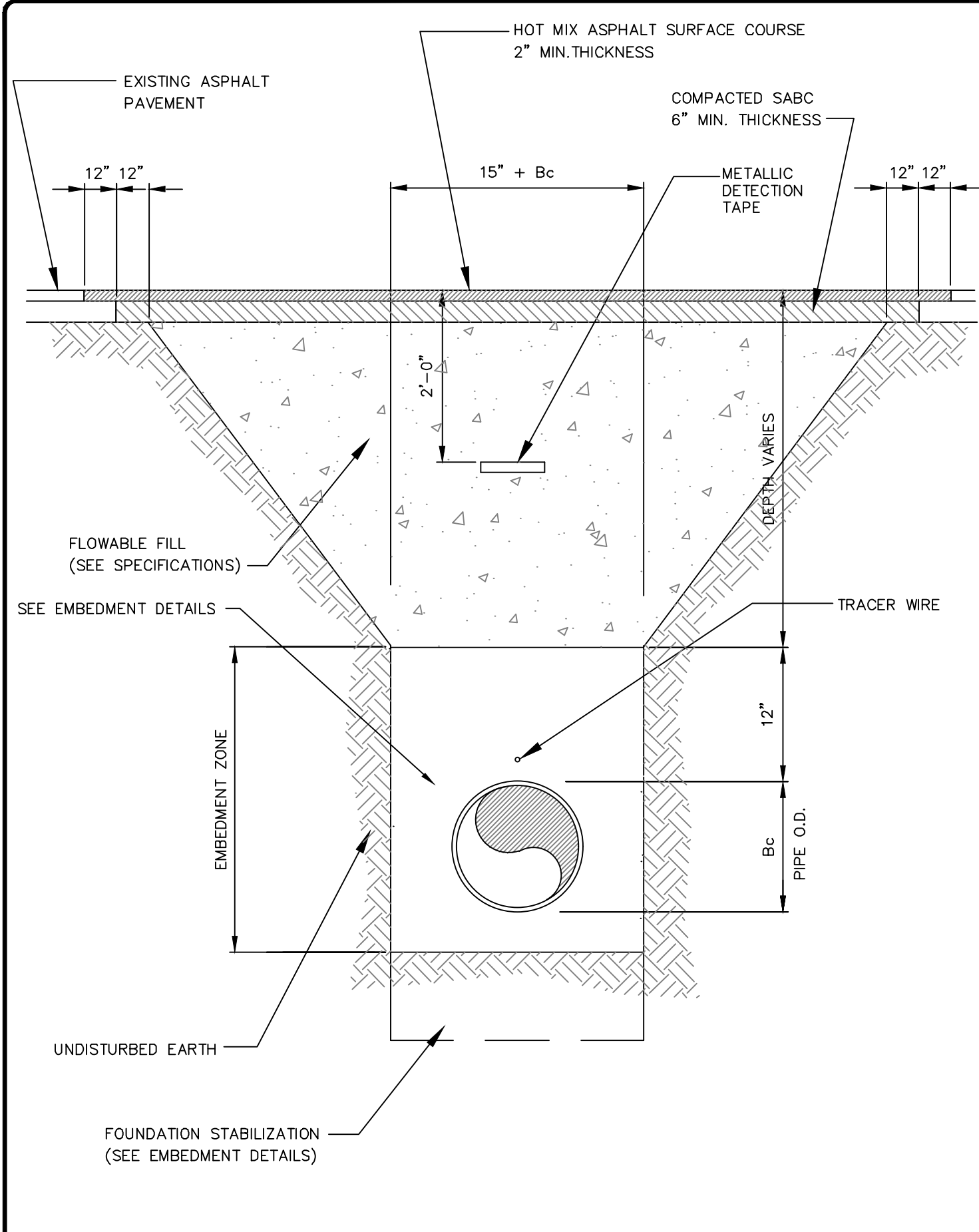
Paving Plan

Vert. Datum:	NAVD88
Horiz. Datum:	NAD83
Project #:	230640
Date:	06/17/24
Designed by:	LYJ
Checked by:	CPB

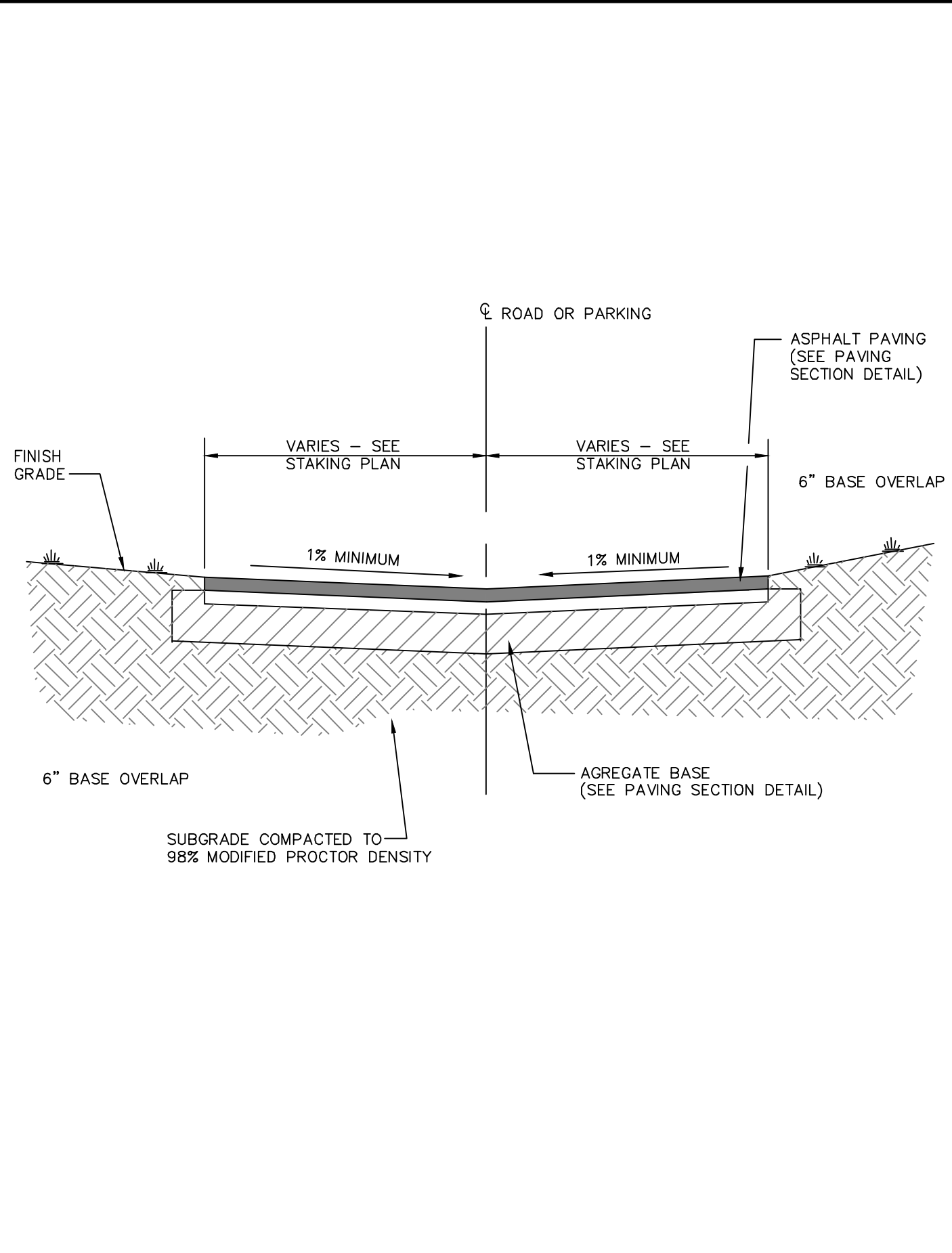
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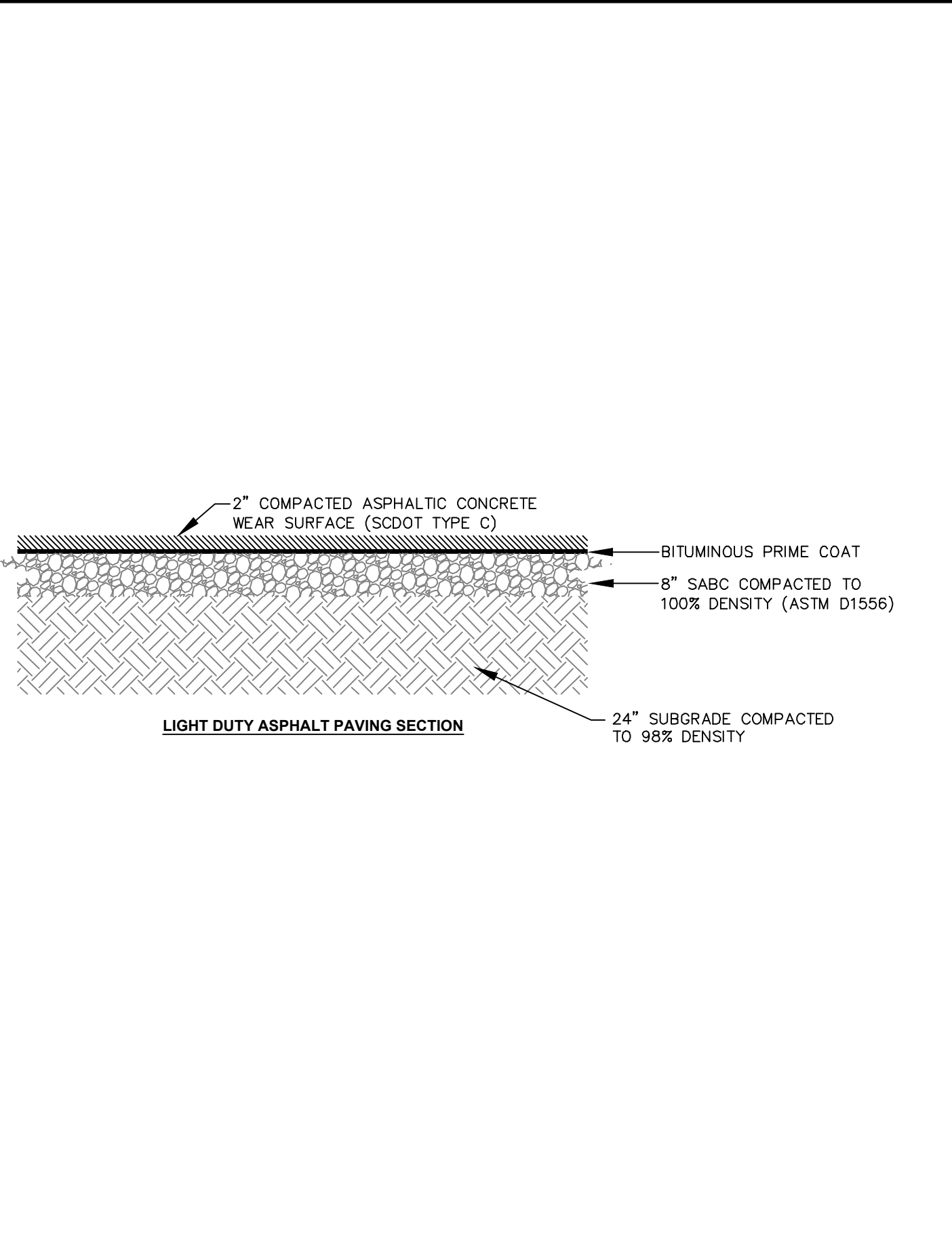
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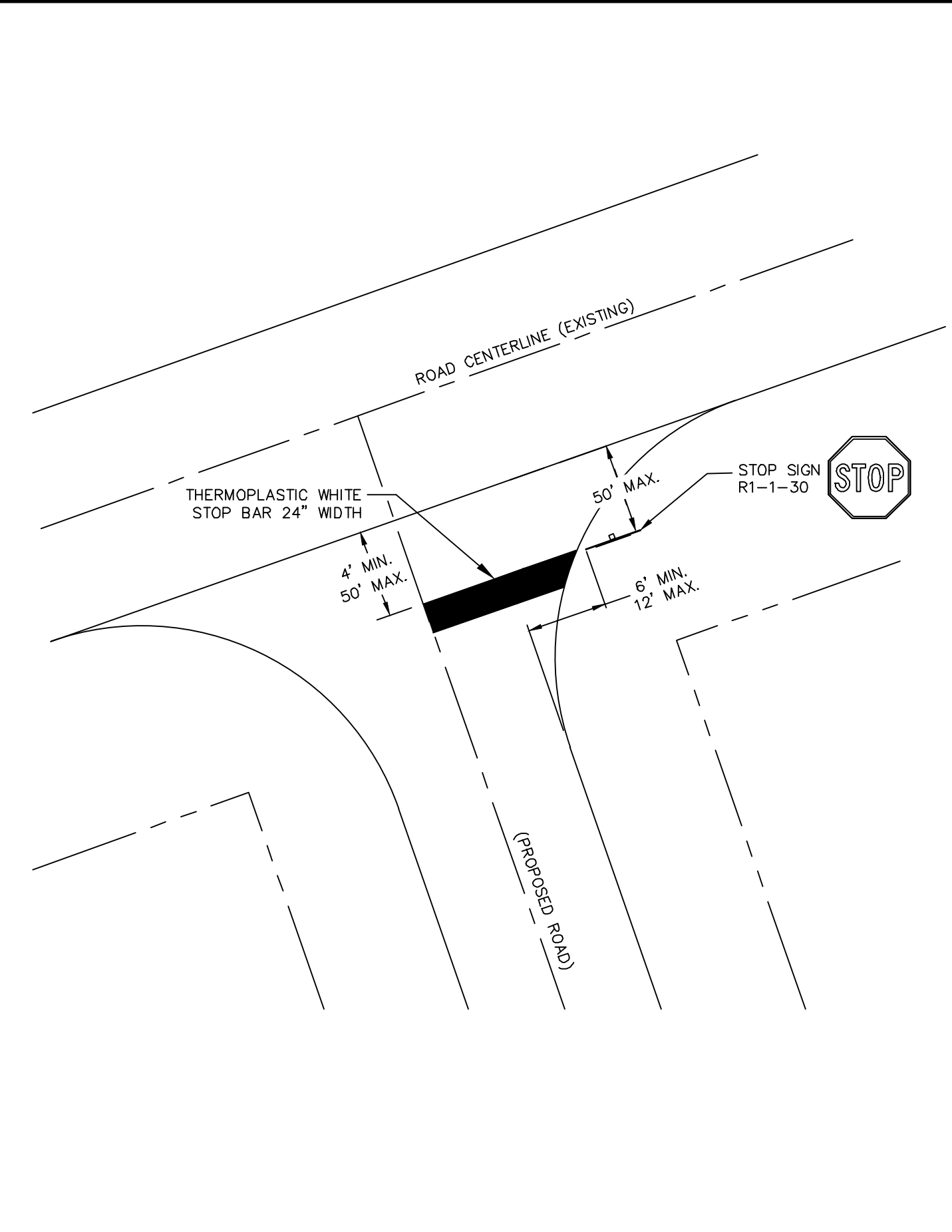
TRENCH DETAIL- UNDER PAVED ROADWAY
DETAIL 02630-043



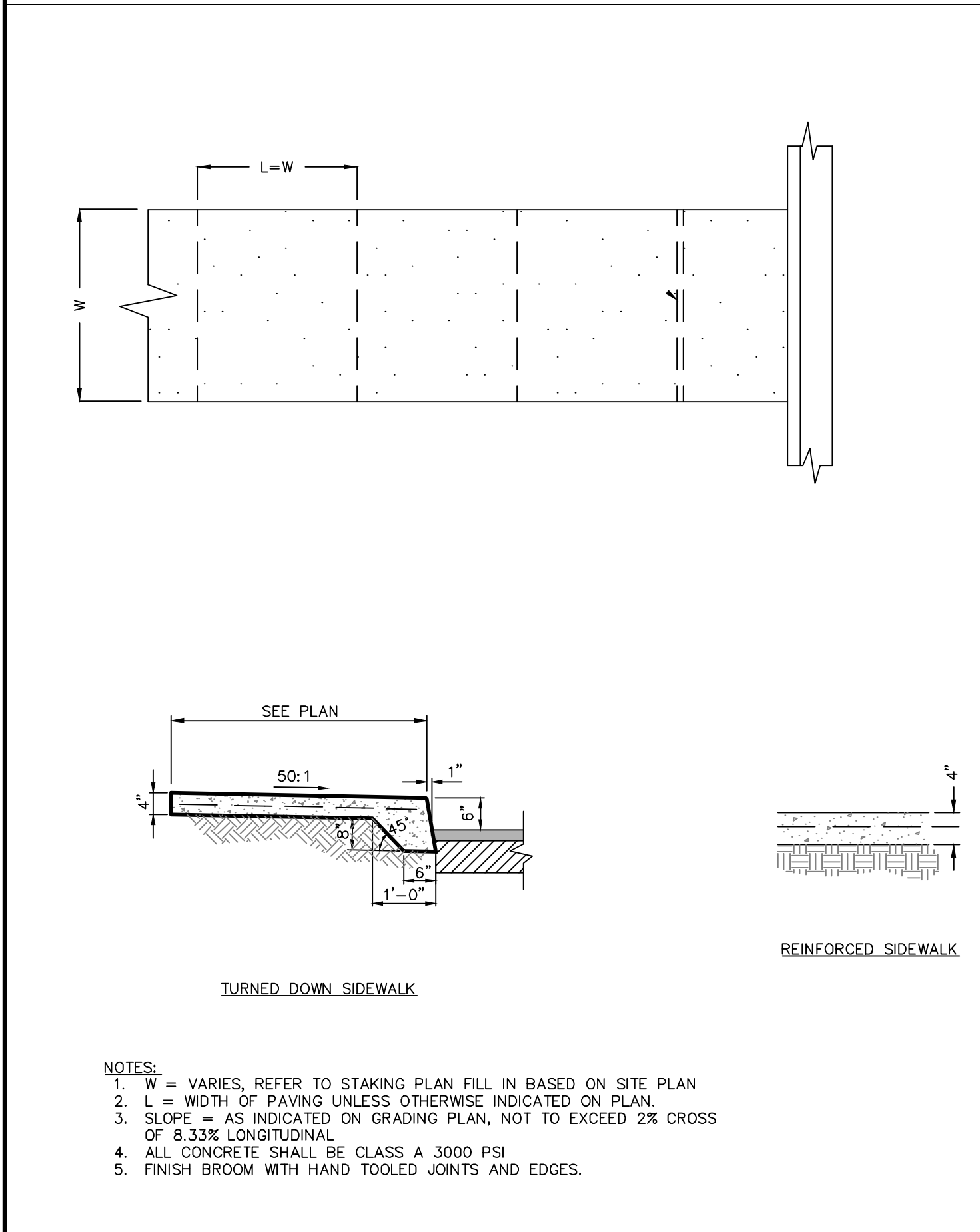
INVERTED CROWN ASPHALT PAVING SECTION
DETAIL 02740-002



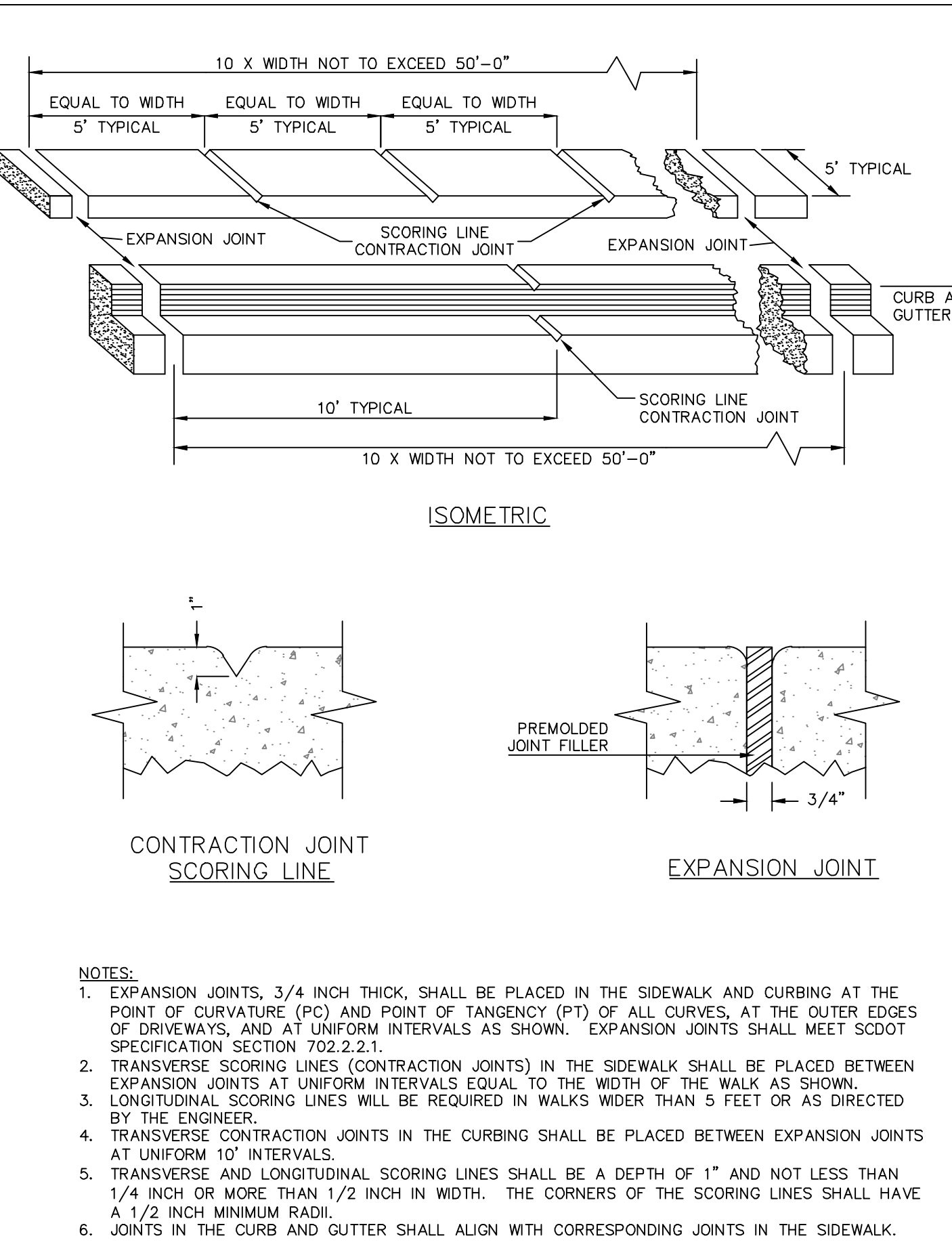
TYPICAL PAVING SECTIONS
DETAIL 02740-016



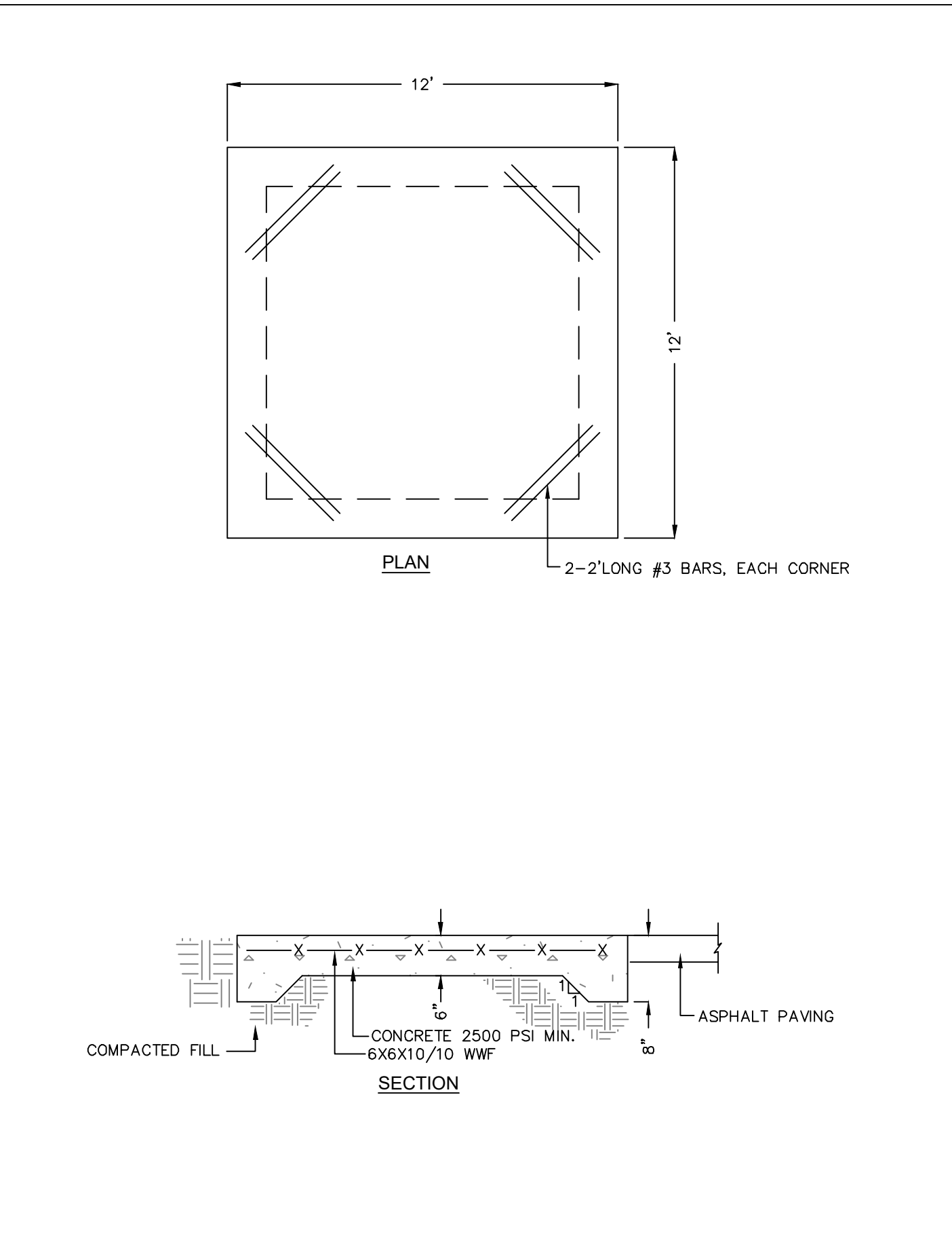
TYPICAL STOP SIGN & STOP BAR STRIPING
AT INTERSECTION
DETAIL #02740-018



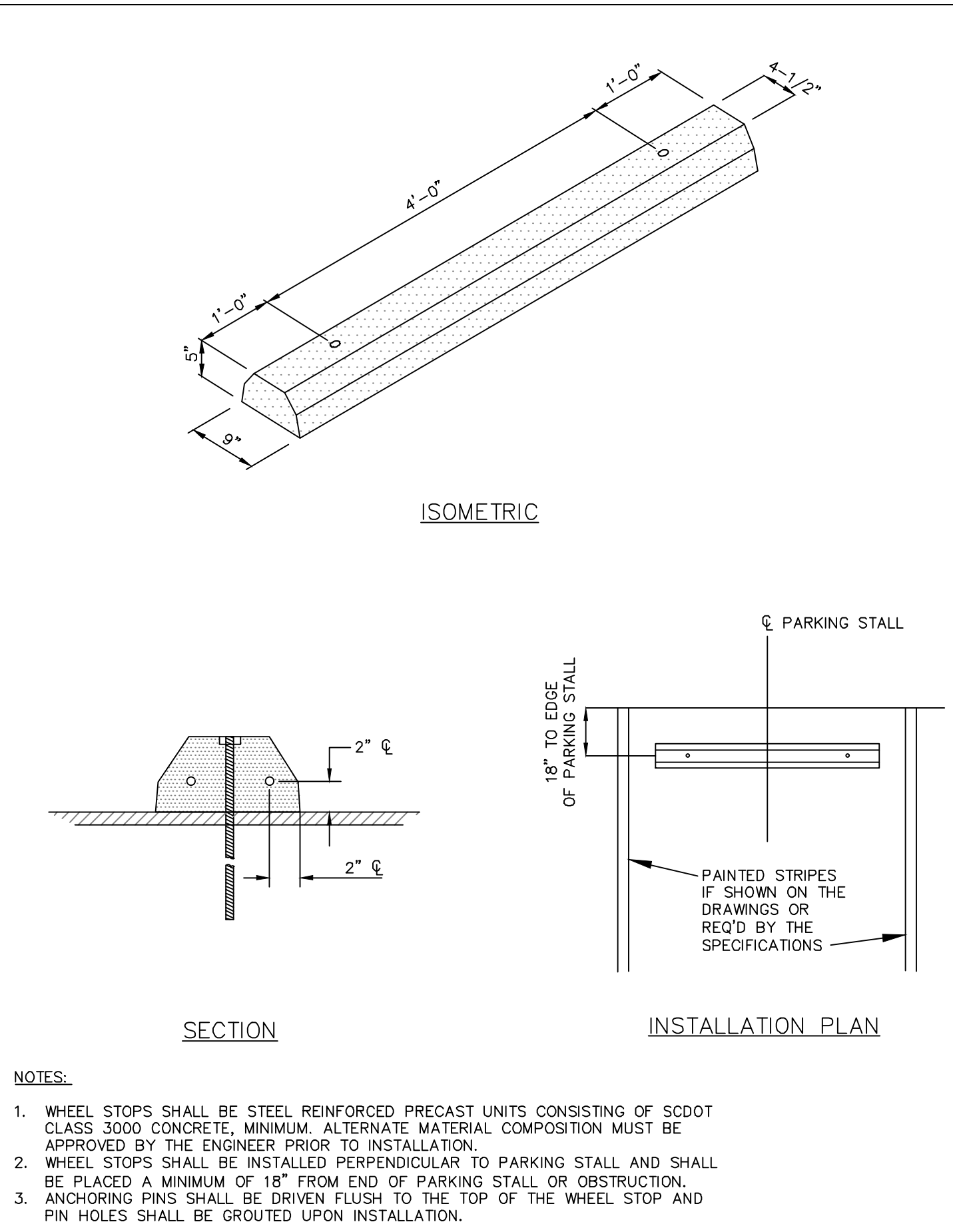
CONCRETE SIDEWALK
DETAIL 03300-006



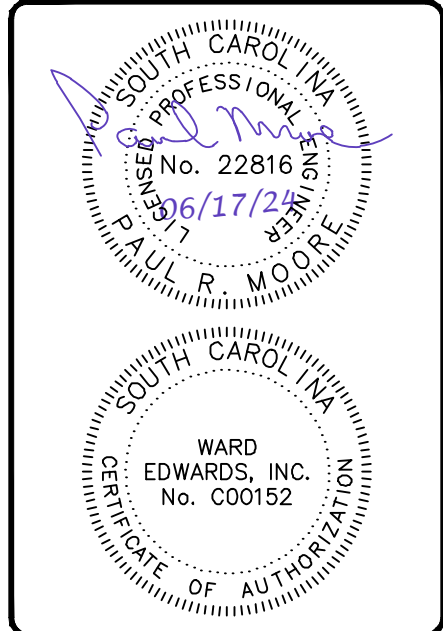
EXPANSION JOINTS AND SCORING LINES
DETAIL 03300-007A



HEAVY DUTY CONCRETE DUMPSTER PAD
DETAIL 03300-017



PRECAST CONCRETE WHEEL STOP



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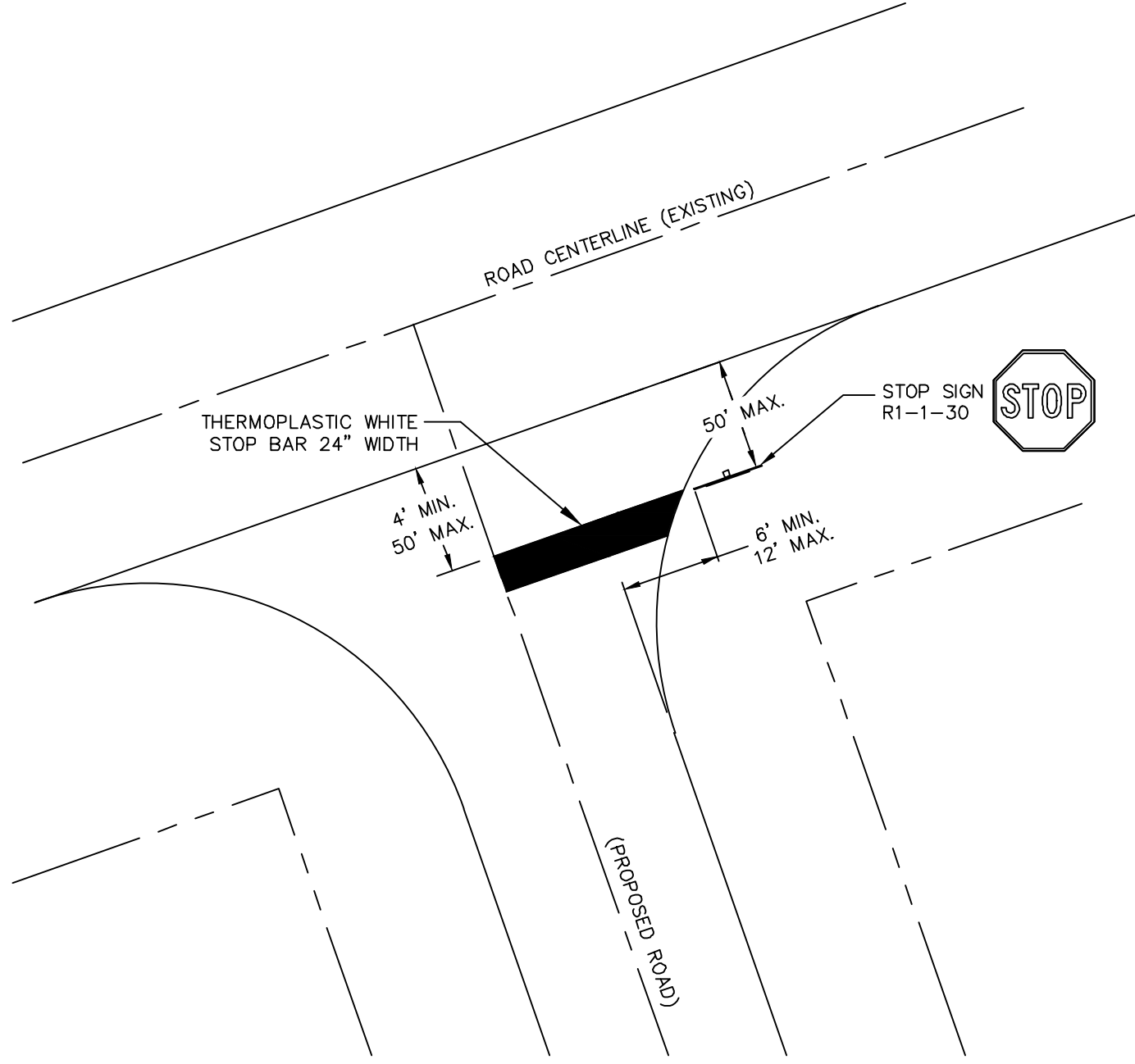
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Paving Details

Vert. Datum:	NAVD88
Horiz. Datum:	NAD83
Project #:	230640
Date:	06/17/24
Designed by:	LYJ
Checked by:	CPB

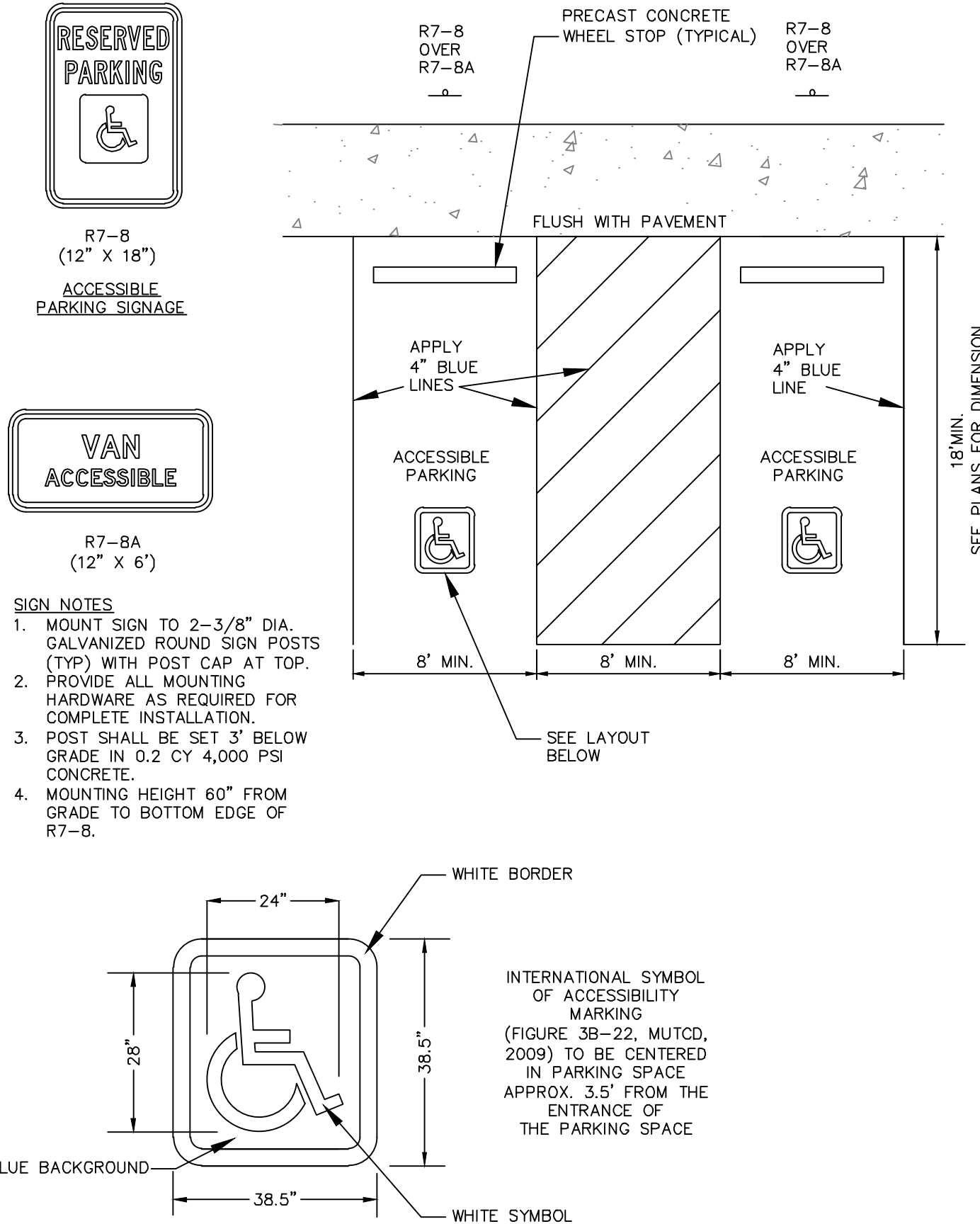
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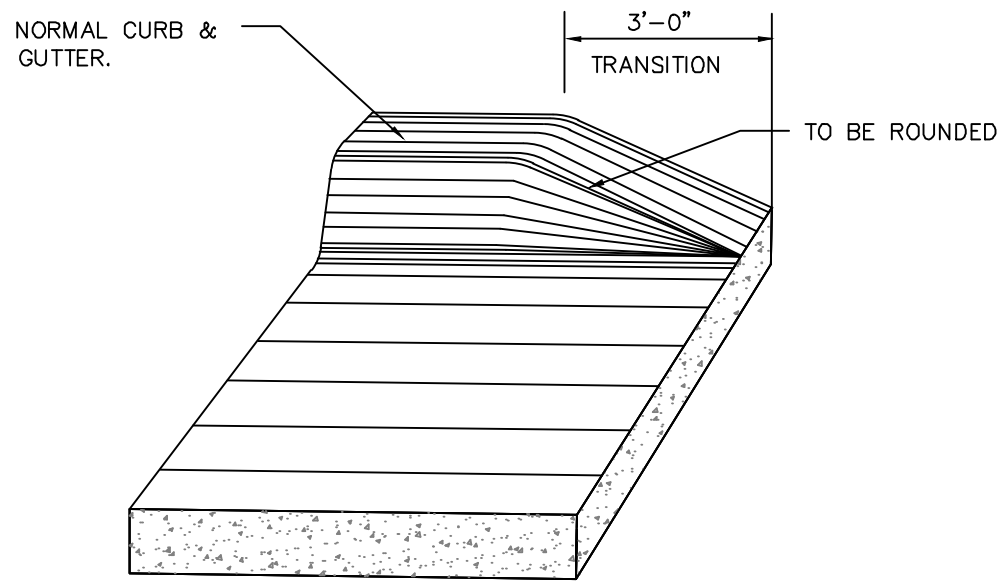
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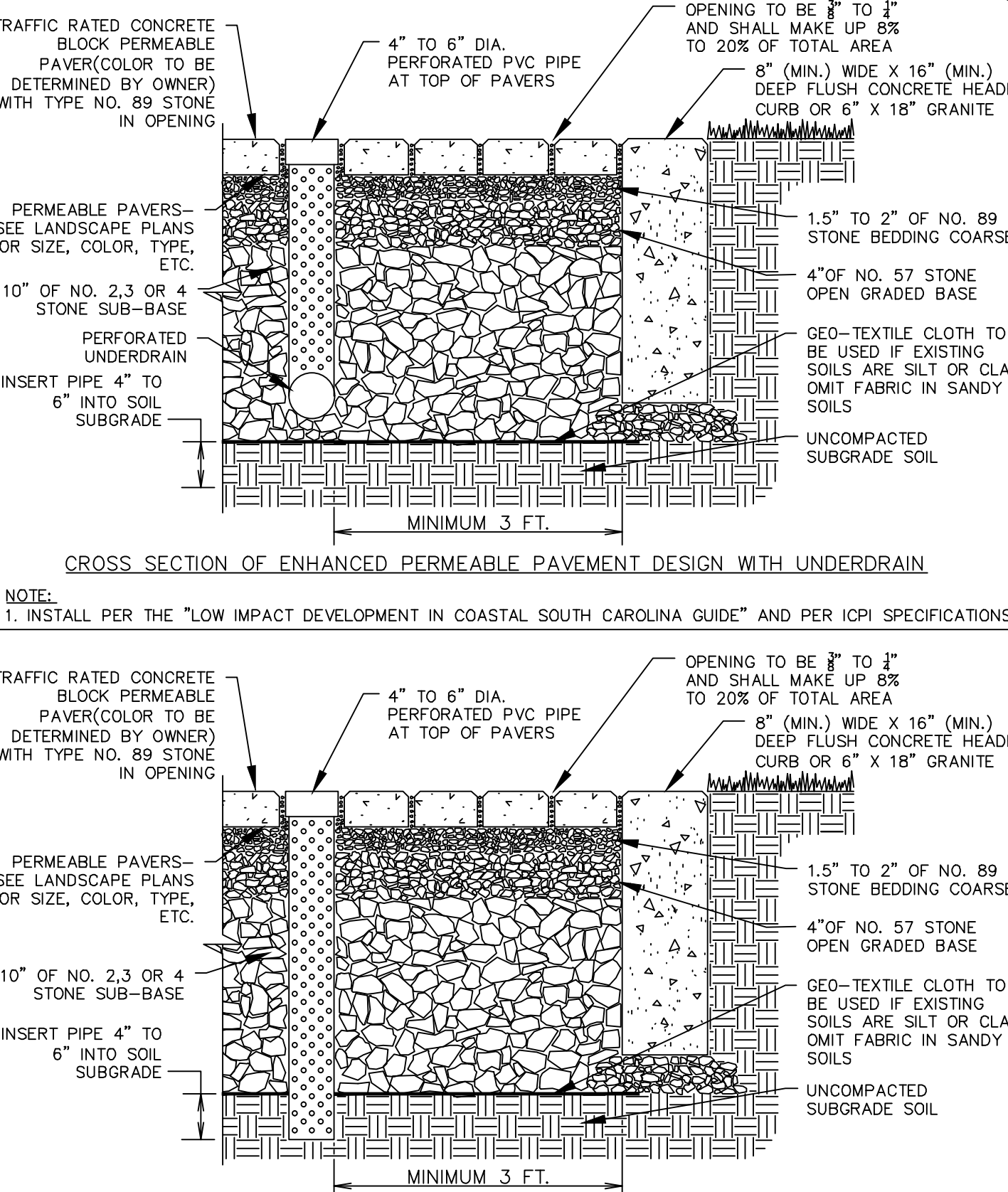
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DETAIL #02740-018



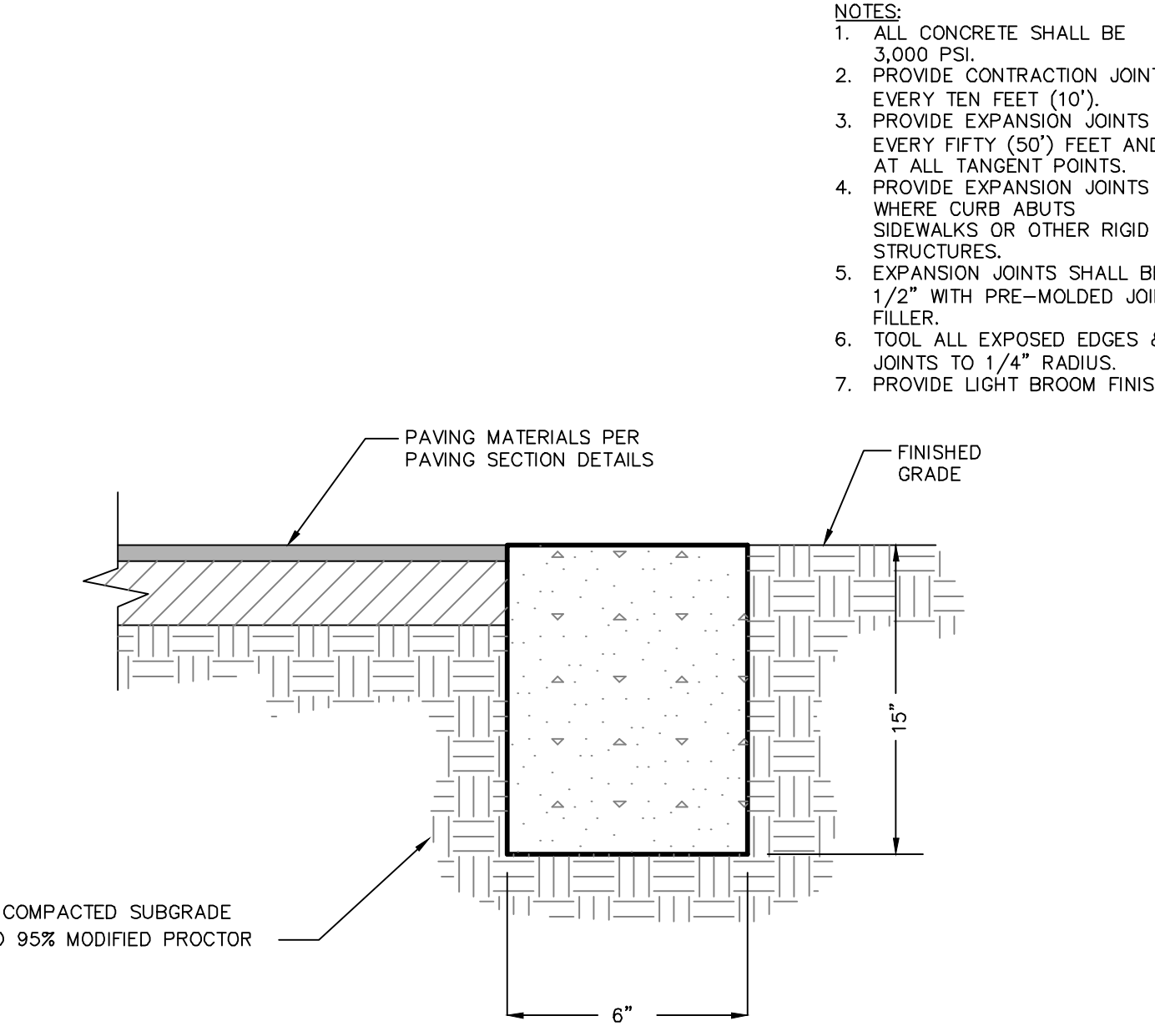
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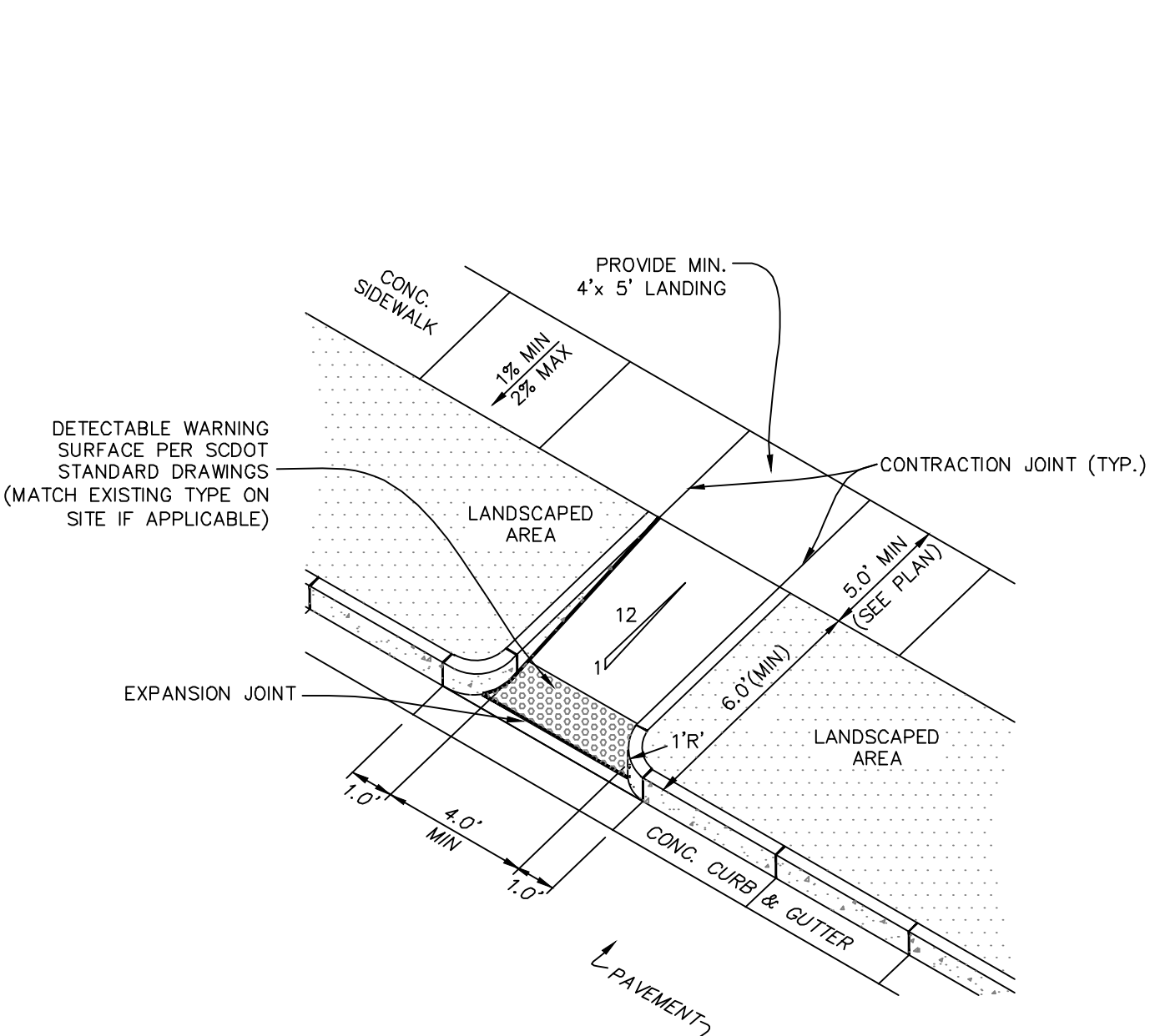
CURB AND GUTTER TRANSITION DETAIL
DETAIL 03300-020



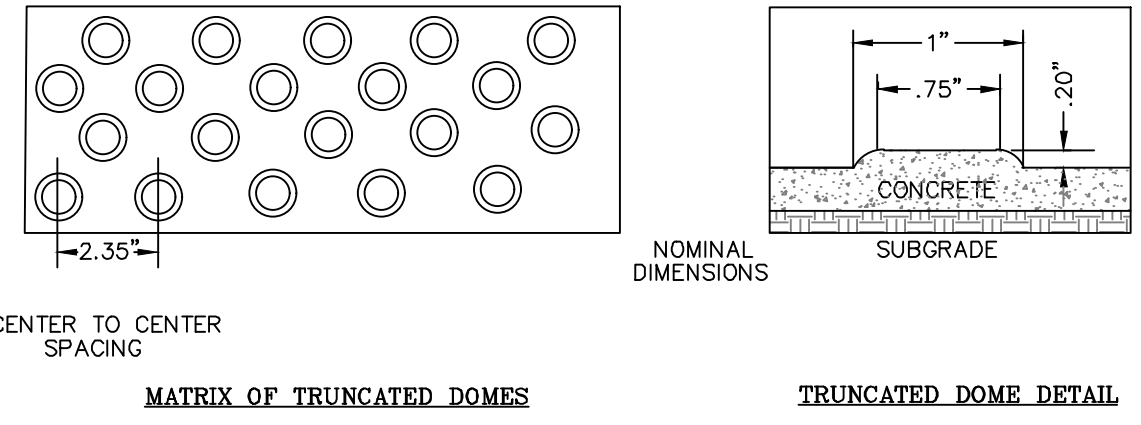
ENHANCED PERMEABLE PAVING DETAIL



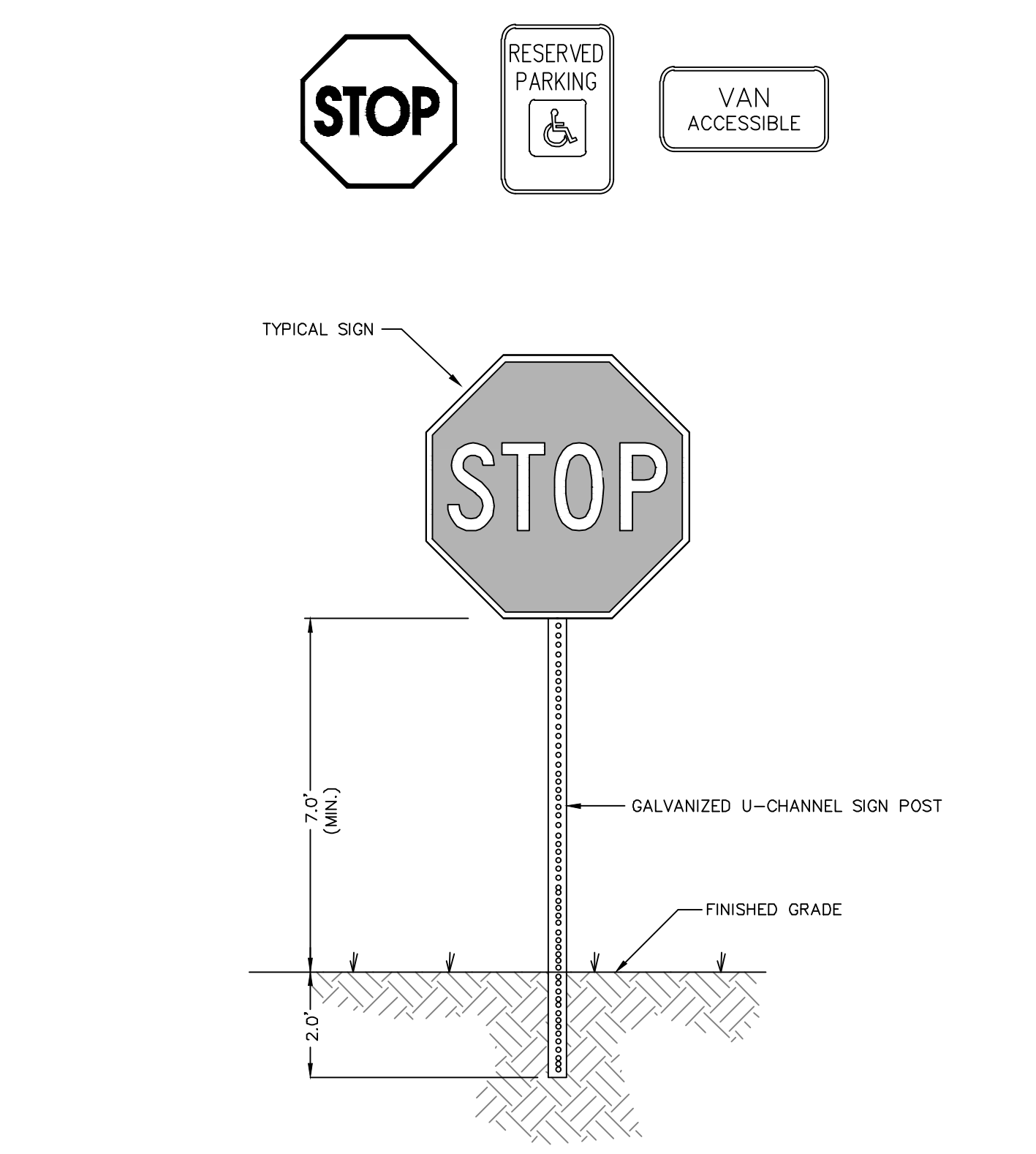
FLUSH HEADER CURB
DETAIL 03300-005A



CONCRETE CURB RAMP- TYPE D
DETAIL 03300-033



DETECTABLE WARNING PAVEMENT
DETAIL 02740-012



TYPICAL SIGNAGE
DETAIL #02890-002A

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PROFESSIONAL ENGINEER
No. 22816
06/17/24

WARD EDWARDS, INC.
No. 000152

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Date

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Plan Revisions

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Paving Details

Vert. Datum: NAVD88

Horiz. Datum: NAD83

Project #: 230640

Date: 06/17/24

Designed by: LYJ

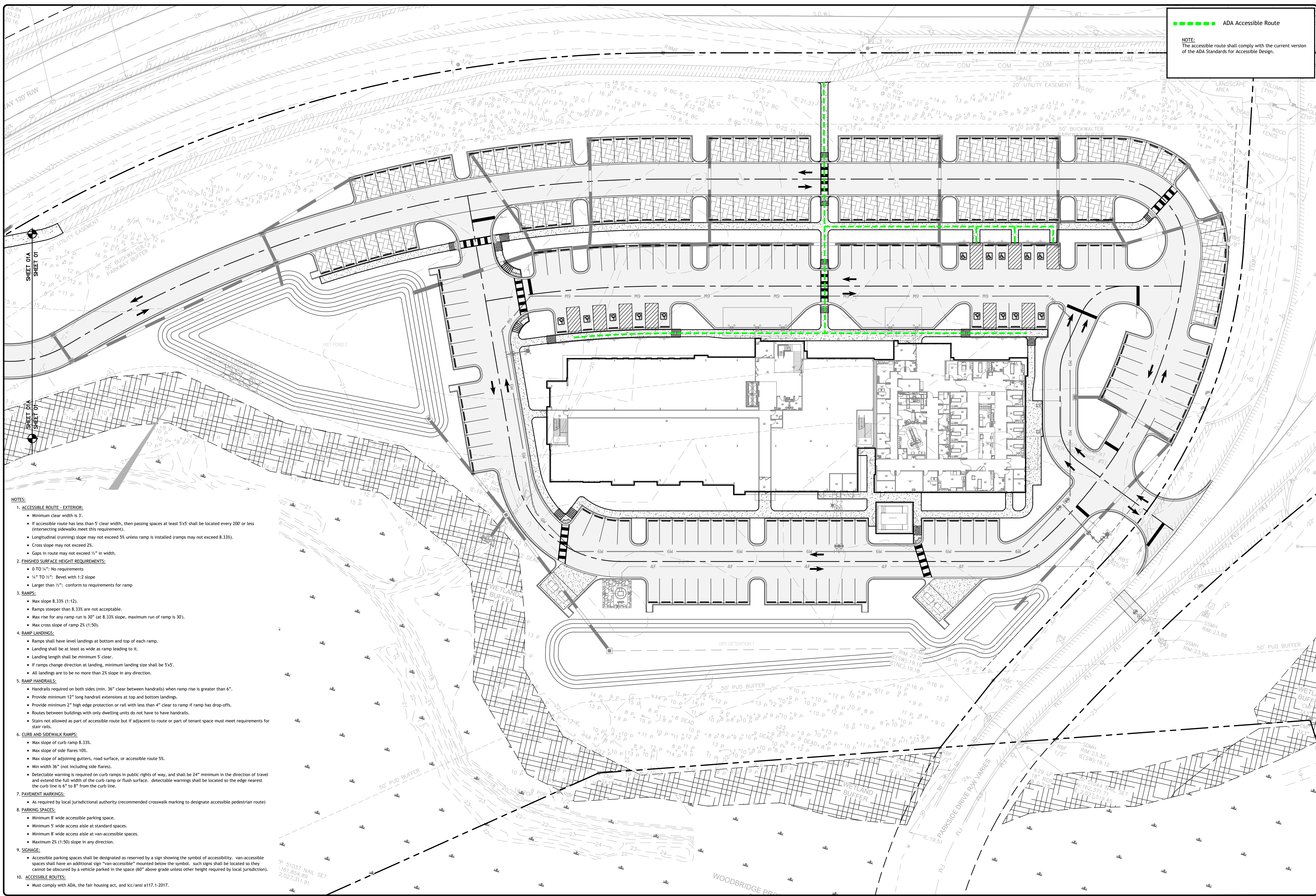
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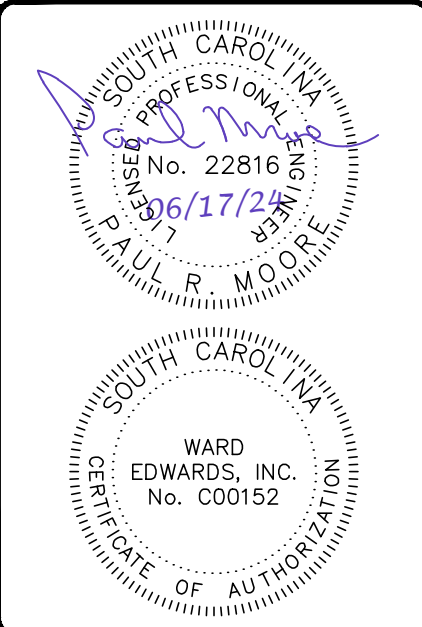
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- NOTES:**
- 1. ACCESSIBLE ROUTE - EXTERIOR:**
 - Minimum clear width is 3'.
 - If accessible route has less than 5' clear width, then passing spaces at least 5'x5' shall be located every 200' or less (intersecting sidewalks meet this requirement).
 - Longitudinal (running) slope may not exceed 5% unless ramp is installed (ramps may not exceed 8.33%).
 - Cross slope may not exceed 2%.
 - Gaps in route may not exceed 1/2" in width.
 - 2. FINISHED SURFACE HEIGHT REQUIREMENTS:**
 - 0 TO 1/4": No requirements
 - 1/4" TO 1/2": Bevel with 1:2 slope
 - Larger than 1/2": conform to requirements for ramp
 - 3. RAMPS:**
 - Max slope 8.33% (1:12).
 - Ramps steeper than 8.33% are not acceptable.
 - Max rise for any ramp run is 30" (at 8.33% slope, maximum run of ramp is 30').
 - Max cross slope of ramp 2% (1:50).
 - 4. RAMP LANDINGS:**
 - Ramps shall have level landings at bottom and top of each ramp.
 - Landing shall be at least as wide as ramp leading to it.
 - Landing length shall be minimum 5' clear.
 - If ramps change direction at landing, minimum landing size shall be 5'x5'.
 - All landings are to be no more than 2% slope in any direction.
 - 5. RAMP HANDRAILS:**
 - Handrails required on both sides (min. 36" clear between handrails) when ramp rise is greater than 6".
 - Provide minimum 12" long handrail extensions at top and bottom landings.
 - Provide minimum 2" high edge protection or rail with less than 4" clear to ramp if ramp has drop-offs.
 - Routes between buildings with only dwelling units do not have to have handrails.
 - Stairs not allowed as part of accessible route but if adjacent to route or part of tenant space must meet requirements for stair rails.
 - 6. CURB AND SIDEWALK RAMPS:**
 - Max slope of curb ramp 8.33%.
 - Max slope of side flares 10%.
 - Max slope of adjoining gutters, road surface, or accessible route 5%.
 - Min width 36" (not including side flares).
 - Detectable warning is required on curb ramps in public rights of way, and shall be 24" minimum in the direction of travel and extend the full width of the curb ramp or flush surface. detectable warnings shall be located so the edge nearest the curb line is 6" to 8" from the curb line.
 - 7. PAVEMENT MARKINGS:**
 - As required by local jurisdictional authority (recommended crosswalk marking to designate accessible pedestrian route)
 - 8. PARKING SPACES:**
 - Minimum 8' wide accessible parking space.
 - Minimum 5' wide access aisle at standard spaces.
 - Minimum 8' wide access aisle at van-accessible spaces.
 - Maximum 2% (1:50) slope in any direction.
 - 9. SIGNAGE:**
 - Accessible parking spaces shall be designated as reserved by a sign showing the symbol of accessibility. van-accessible spaces shall have an additional sign "van-accessible" mounted below the symbol. such signs shall be located so they cannot be obscured by a vehicle parked in the space (60" above grade unless other height required by local jurisdiction).
 - 10. ACCESSIBLE ROUTES:**
 - Must comply with ADA, the fair housing act, and kcc/ansi a117.1-2017.



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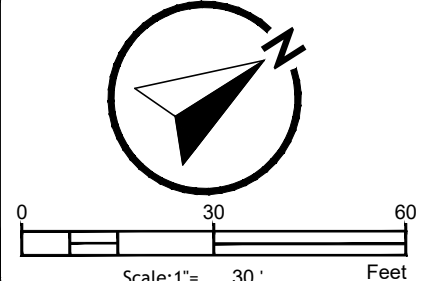
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ADA Accessible Route Plan

Vert. Datum:	NAVD88
Horiz. Datum:	NAD83
Project #:	230640
Date:	06/17/24
Designed by:	LYJ
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