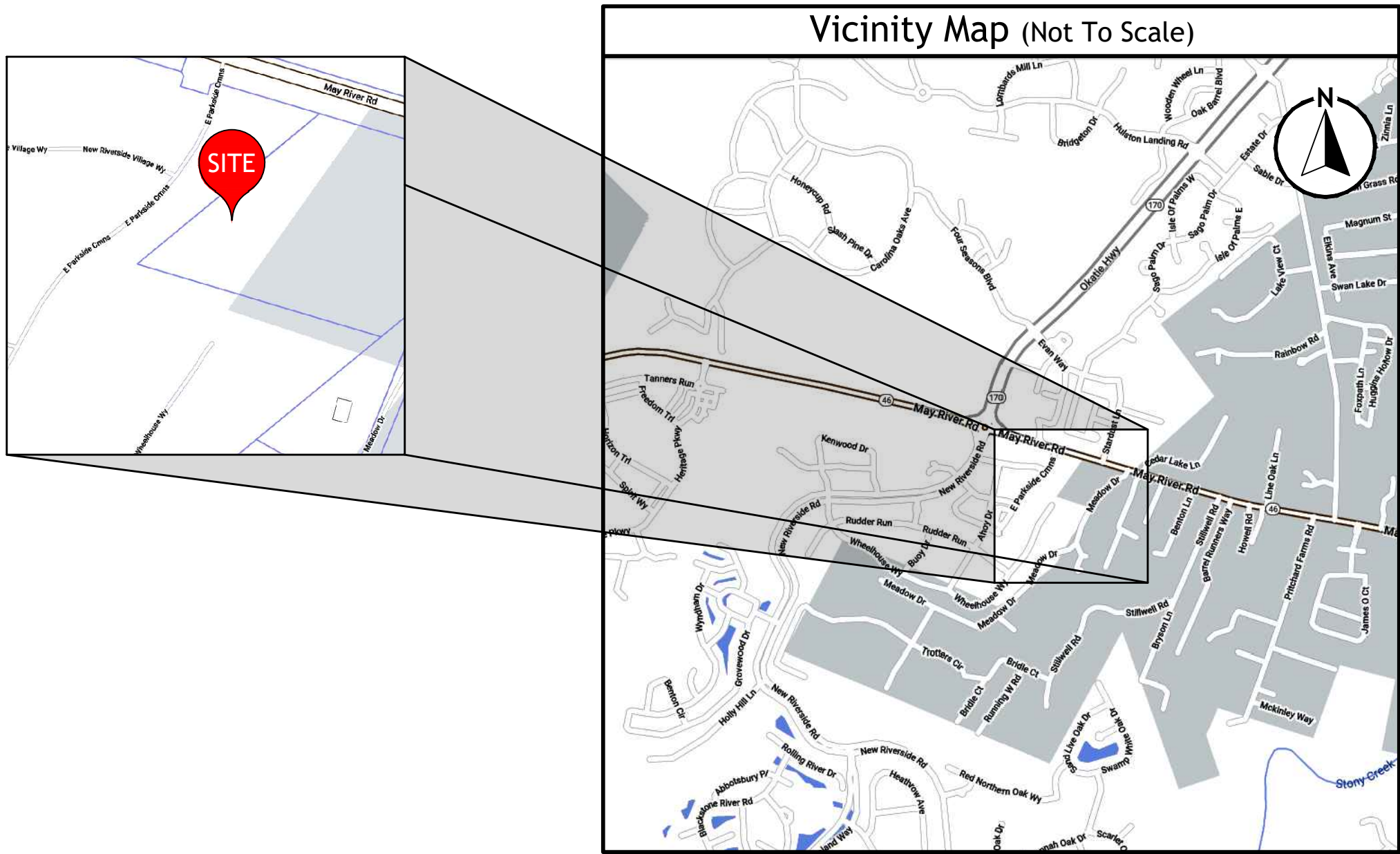


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Site Development Plans
for
New Riverside Village Commercial

Usage (multi-family)
Town of Bluffton, South Carolina
Tax Map #: R600 036 000 0013 0000
New Riverside Rd & 395 E Parkside Commons
GIS coord: N32° 14' 23", W80° 58' 41"



Schedule of Drawings	
Sheet No.	Description
C001	Cover Sheet
C002	Construction Notes
C003	Sheet Index
C101	Existing Conditions Plans
C201	Initial Erosion Control Plans and Details
C301	Clearing & Demolition Plans and Details
C401	Site Layout Plans
C501	Grading Plans and Details
C601	Drainage Plans and Details
C700	Overall Utility Plan
C701	Utility Plans, Profiles and Details
C801	Intermediate & Final Erosion Control Plans and Details
C901	Paving Plans, Road Profiles and Details
C1001	ADA Accessible Route Plan

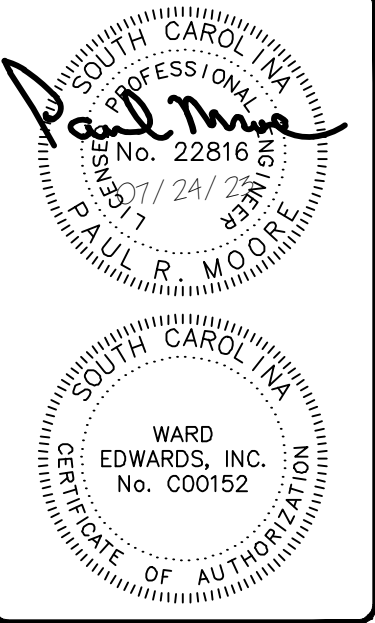
Release Schedule		
Release No.	Description	Date
A.	Released for Permitting	05-16-23
B.	Released for Permitting	06-28-23
C.	Released for Permitting	06-30-23
D.	Released for Permitting	07-24-23



Design Team

Geotechnical Engineer: WSP 319.721.3517	Landscape Architect: Milling Land Design 843.290.2623	Architect: Architecture 101 843.790.4101	Land Surveyor: Atlas Surveying, Inc. 843.645.9277	Developer: Steven G. Stowers Architecture 101 23A Market, Suite #1, Beaufort, SC 29906 843.790.4101 steve@a101.design
---	---	--	---	--

New Riverside Commercial
BJWSA Project #: 2024-003



No.	Description	Date
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New Riverside Village Commercial Town of Bluffton, South Carolina	Prepared for Architecture 101	Cover Sheet
--	----------------------------------	-------------

Vert. Datum:	NAVD88
Horiz. Datum:	SC83IF
Surveyed by:	JWR
Surveyor's PLS:	28139
Project #:	220145
Date:	07/24/23
Designed by:	ASH
Checked by:	PRM
Not to Scale	
C001	

Permit Set - NOT FOR CONSTRUCTION



	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	→

NOTE:
The accessible route shall comply with the current version of the ada standards for accessible design.

Vert. Datum:	NAVD88
Horiz. Datum:	SC83IF
Surveyed by:	JWF
Surveyor's PLS:	2813

Project #:	22014
Date:	07/24/23
Designed by:	ASH
Checked by:	PRM

Not to Scale

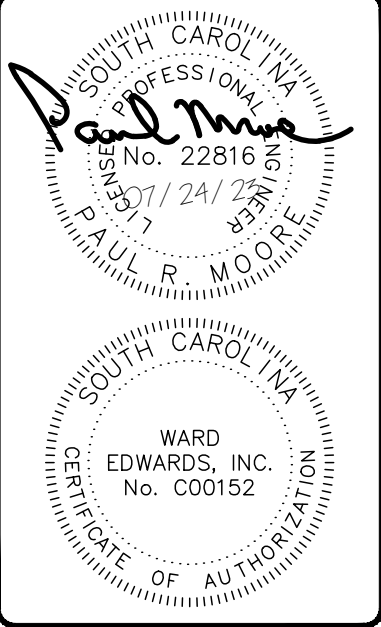
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Sheet 01

Sheet 02

ADA Accessible route

NOTE:
The accessible route shall comply with the current version of the ada standards for accessible design.



No.	Description	Date
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New Riverside Village Commercial
Town of Bluffton, South Carolina

Prepared for
Architecture 101

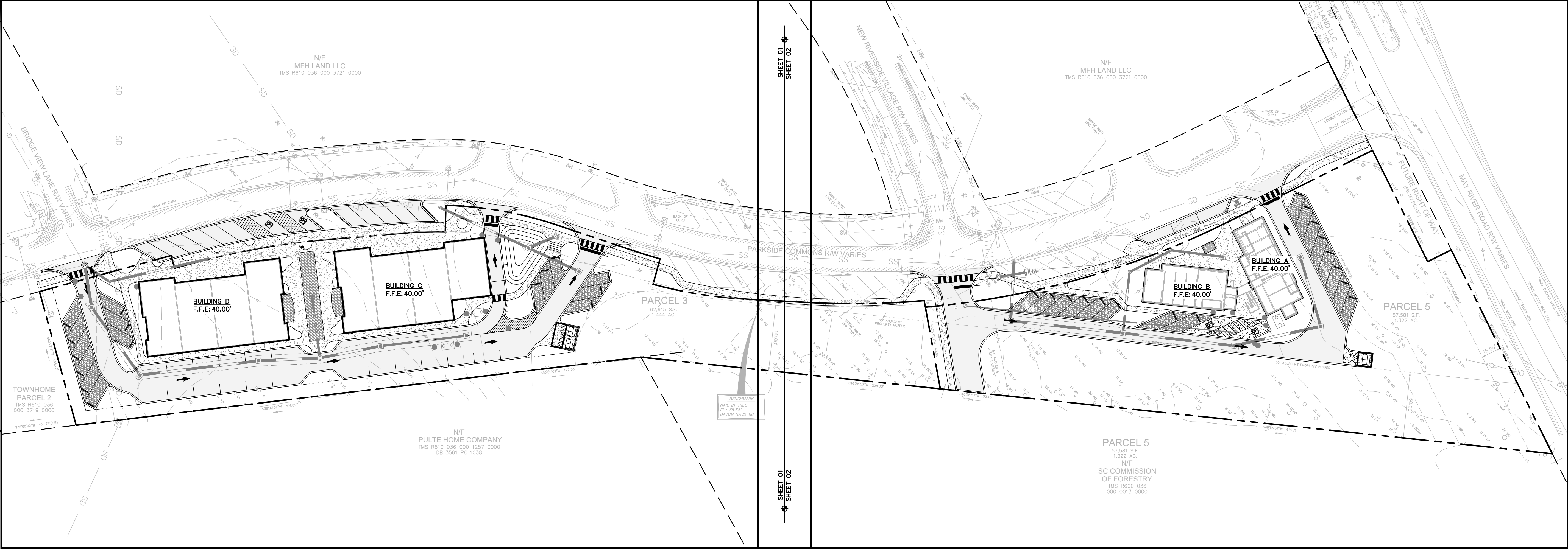
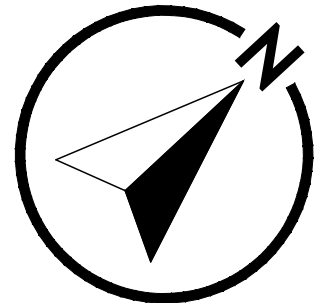
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Vert. Datum:	NAVD88
Horiz. Datum:	SC83IF
Surveyed by:	JWR
Surveyor's PLS:	28139

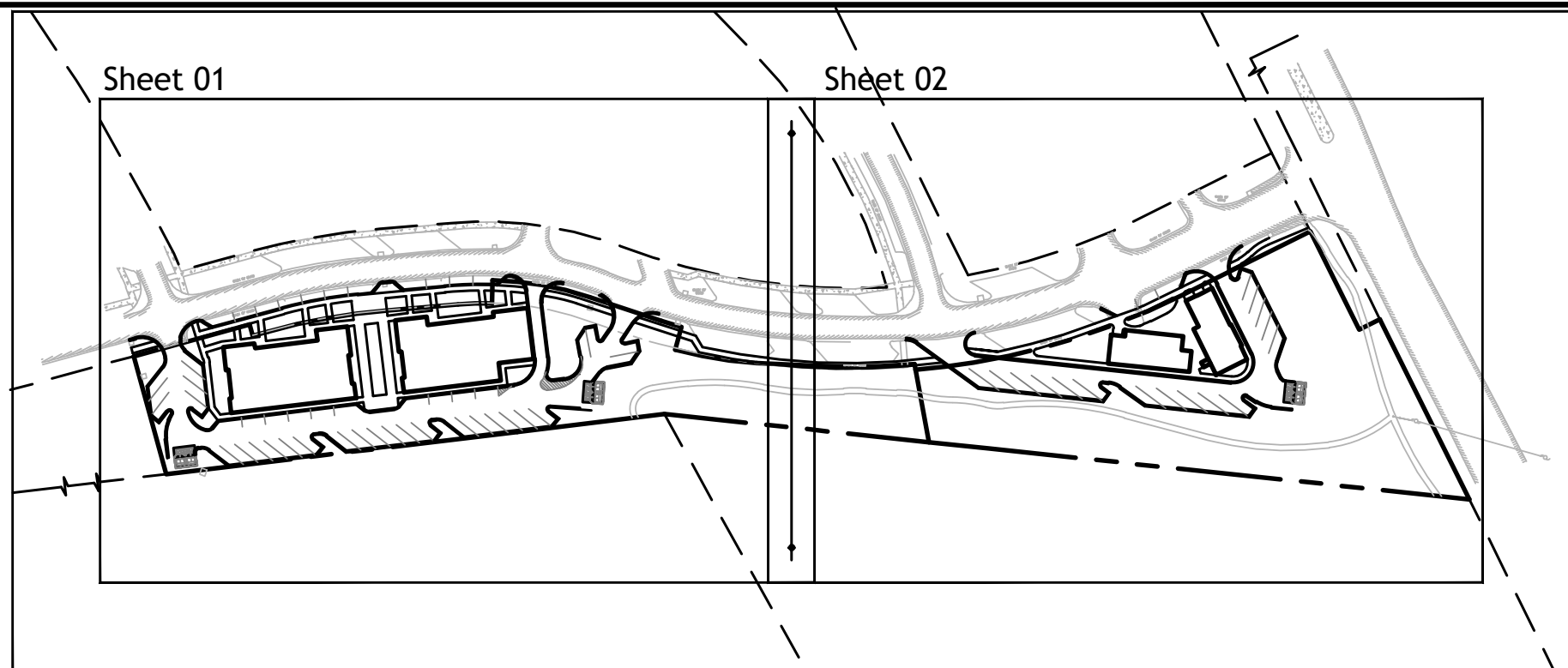
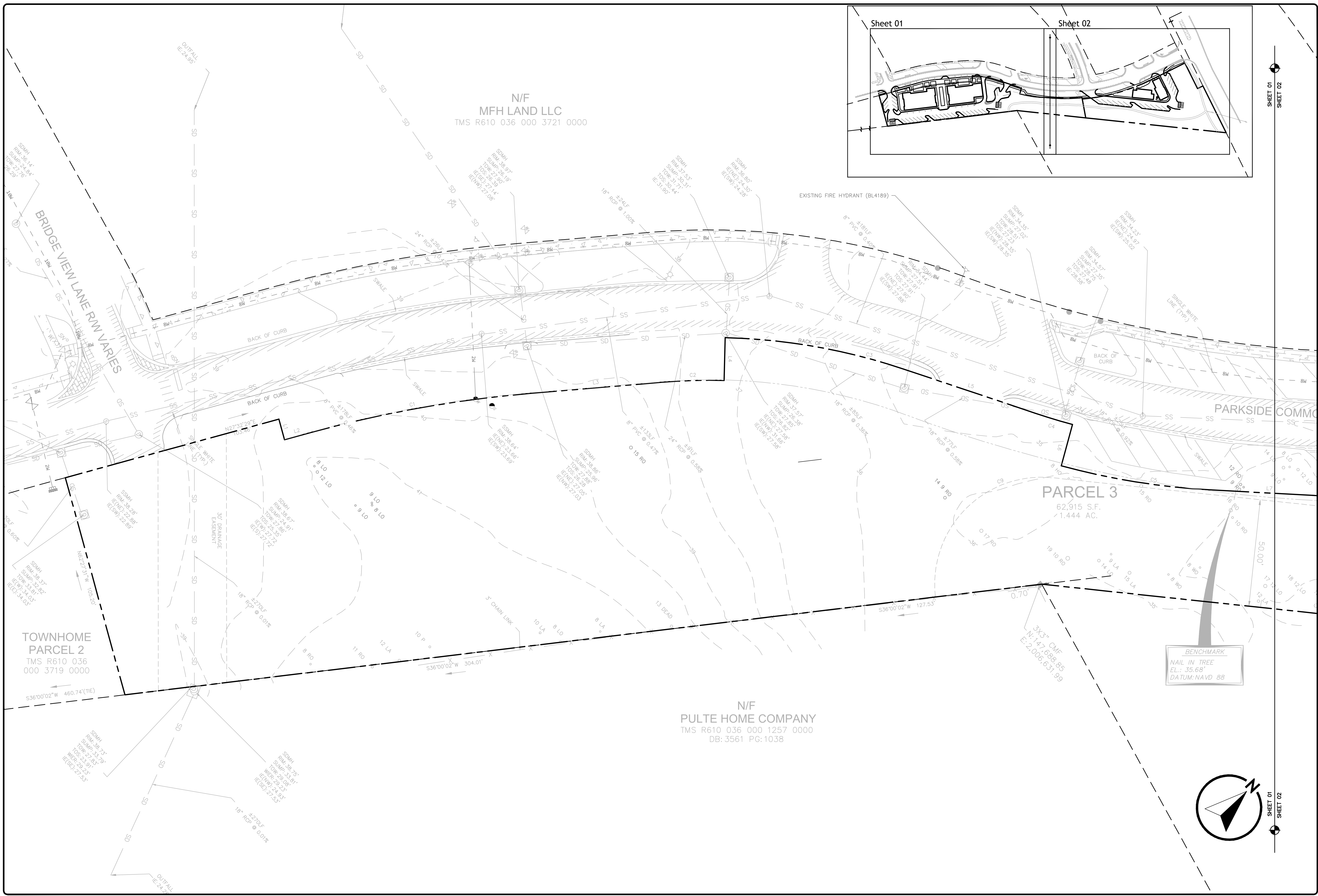
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Date:	07/24/23
Designed by:	ASH
Checked by:	PRM

Scale: 1" = 40' Feet

C003



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WARD EDWARDS, INC.
No. 000152

STATE OF SOUTH CAROLINA
JOURNAL OF AUTHORIZATION

No.	Description	Date
7		
6		
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4		
3		
2		
1		

Ward Edwards
ENGINEERING

110C Palmetto Way
P.O. Box 281 Bluffton
South Carolina 29910

(843) 837-5250
www.WardEdwards.com

New Riverside Village Commercial
Town of Bluffton, South Carolina

Prepared for
Architecture 101

Existing Conditions Plan

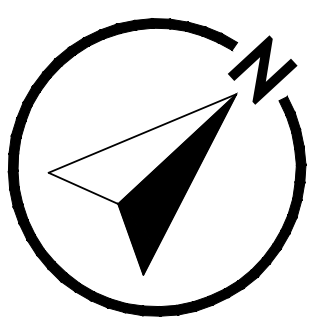
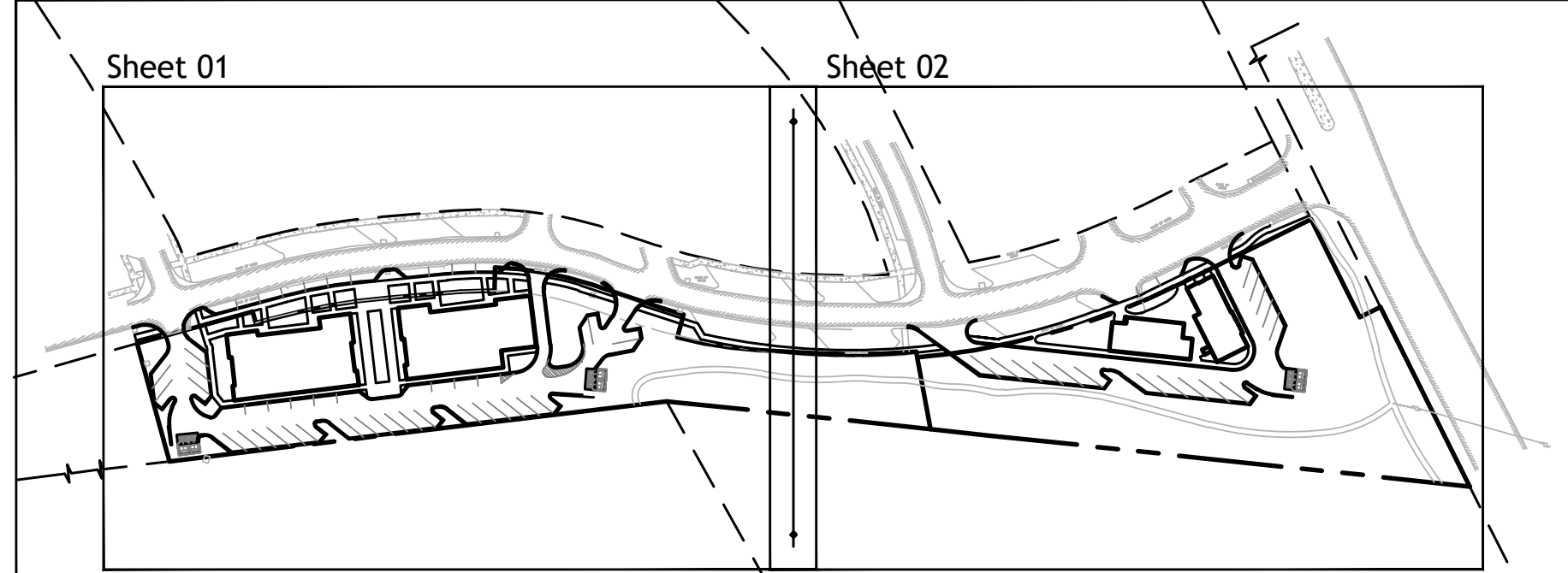
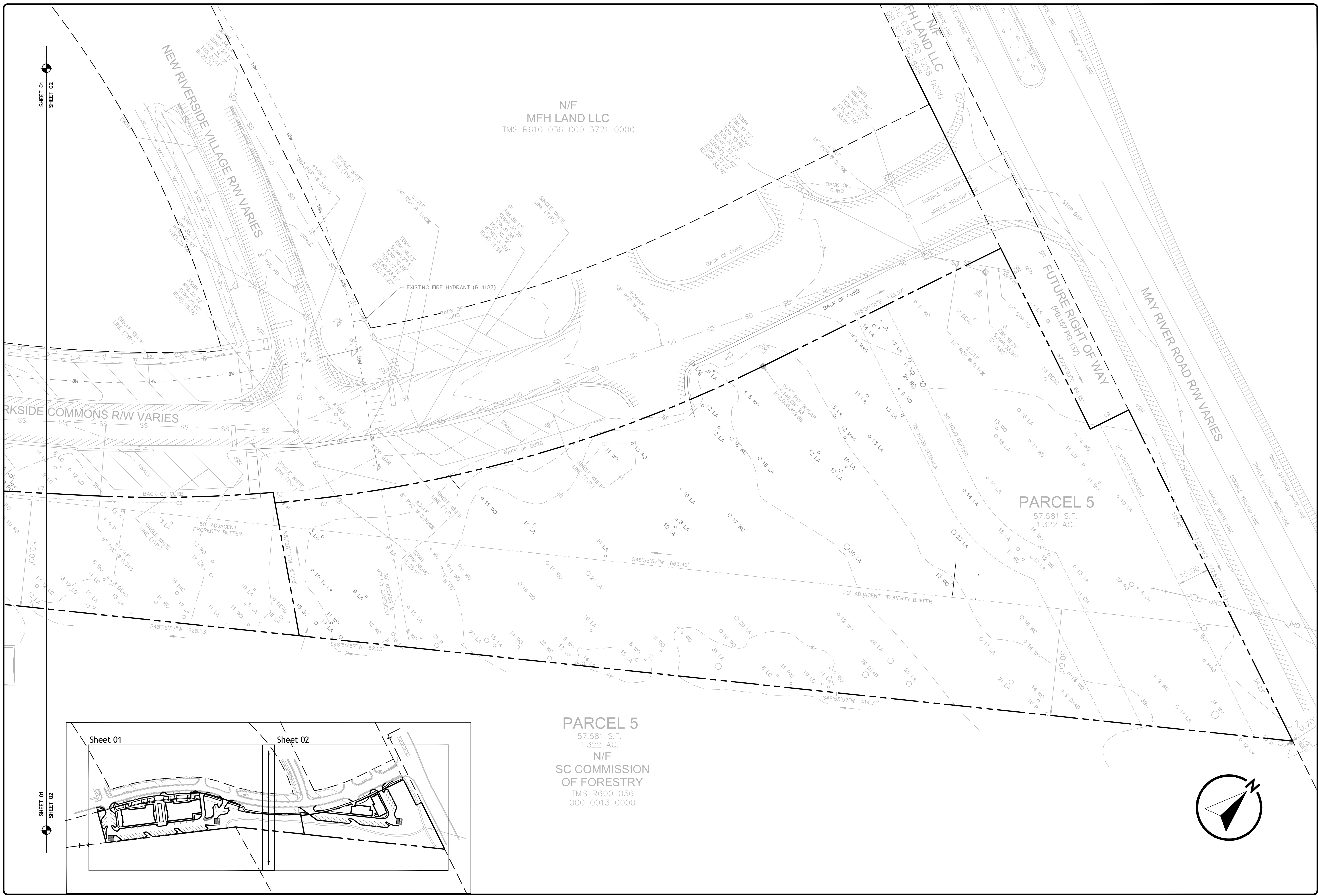
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Horiz. Datum: SC83IF
Surveyed by: JWR
Surveyor's PLS: 28139

Project #: 220145
Date: 07/24/23
Designed by: ASH
Checked by: PRM

Scale: 1" = 20' Feet

C101

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WARD EDWARDS, INC.

No. 000152

STATE OF SOUTH CAROLINA

PROFESSIONAL ENGINEER

No.	Description	Date
7		
6		
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3		
2		
1		

Ward Edwards

ENGINEERING

110C Palmetto Way
P.O. Box 281 • Bluffton
South Carolina 29910

(843) 837-5250
www.WardEdwards.com

New Riverside Village Commercial

Town of Bluffton, South Carolina

Prepared for
Architecture 101

Existing Conditions Plan

Vert. Datum: NAVD88

Horiz. Datum: SC83IF

Surveyed by: JWR

Surveyor's PLS: 28139

Project #: 220145

Date: 07/24/23

Designed by: ASH

Checked by: PRM

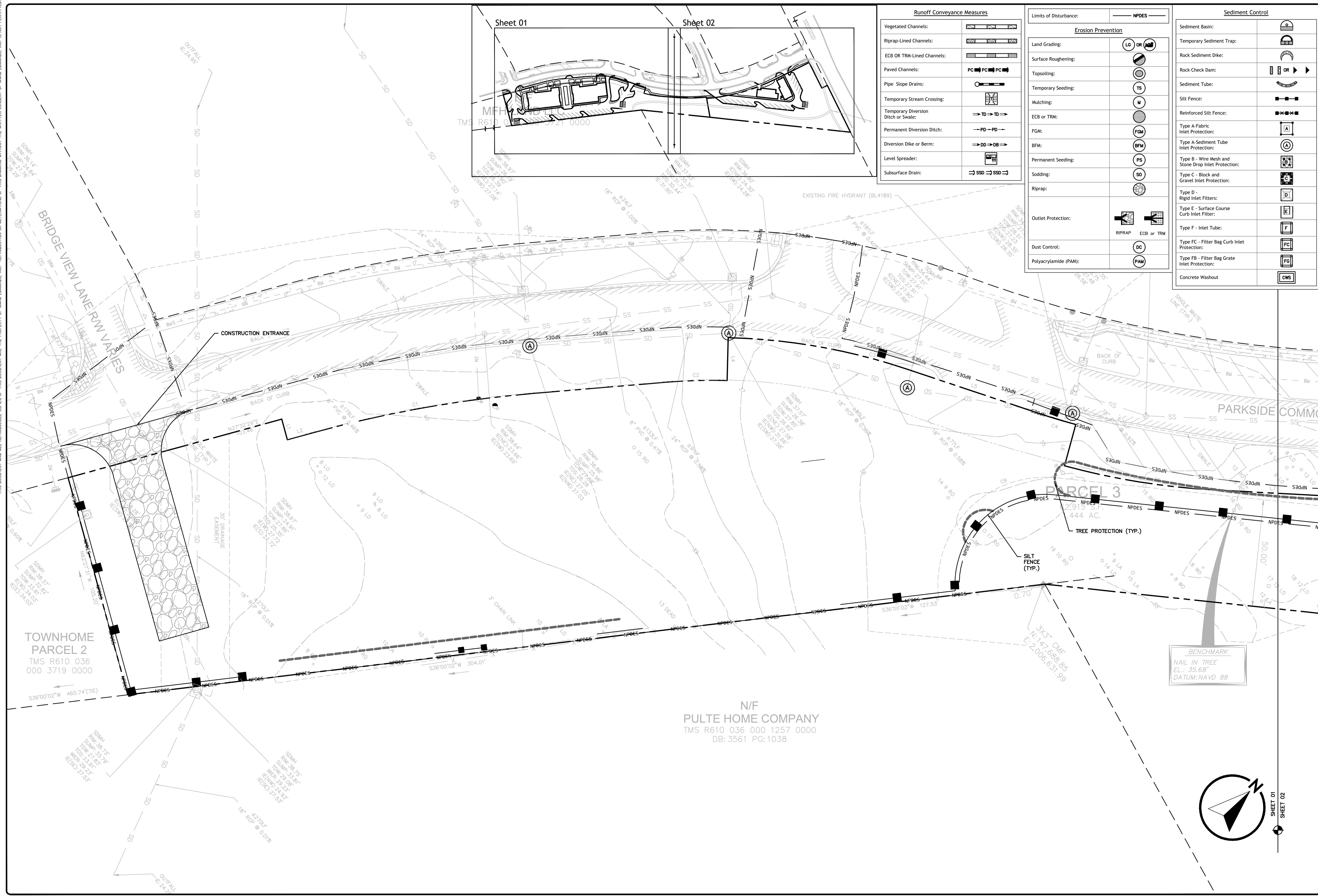
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Scale: 1" = 20' Feet

C102

Permit Set - NOT FOR CONSTRUCTION

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P.O. Box 381 Bluffton
South Carolina 29910
(843) 837-5250
www.WardEdwards.com

New Riverside Village Commercial
Town of Bluffton, South Carolina

Prepared for
Architecture 101

Initial Erosion Control Plan

Vert. Datum: NAVD88
Horiz. Datum: SC83IF
Surveyed by: JWR
Surveyor's PLS: 28139

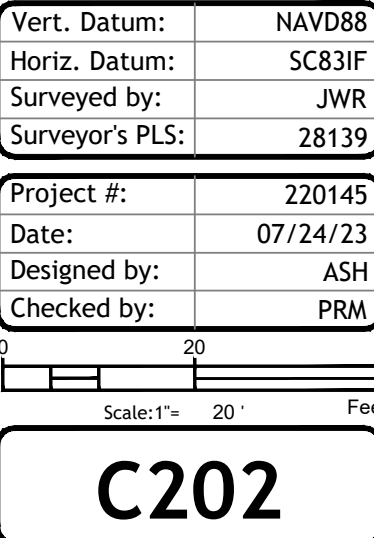
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Date: 07/24/23
Designed by: ASH
Checked by: PRM

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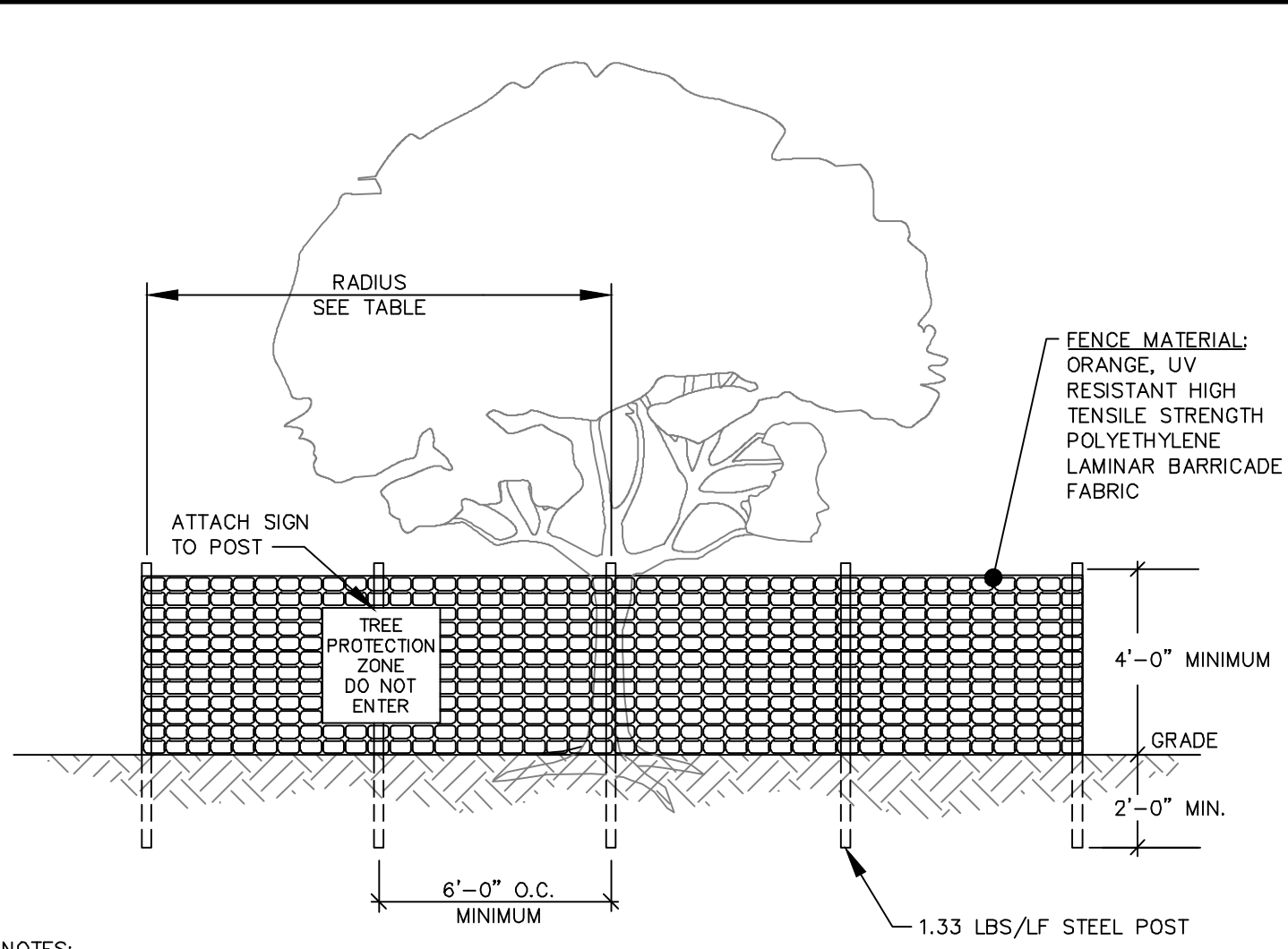
C201

No.	Description	Date
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Ward Edwards Engineering
Professional Engineer
No. 22816
State of South Carolina
Ward Edwards, Inc.
No. C00152
Professional Seal of Authorization



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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.

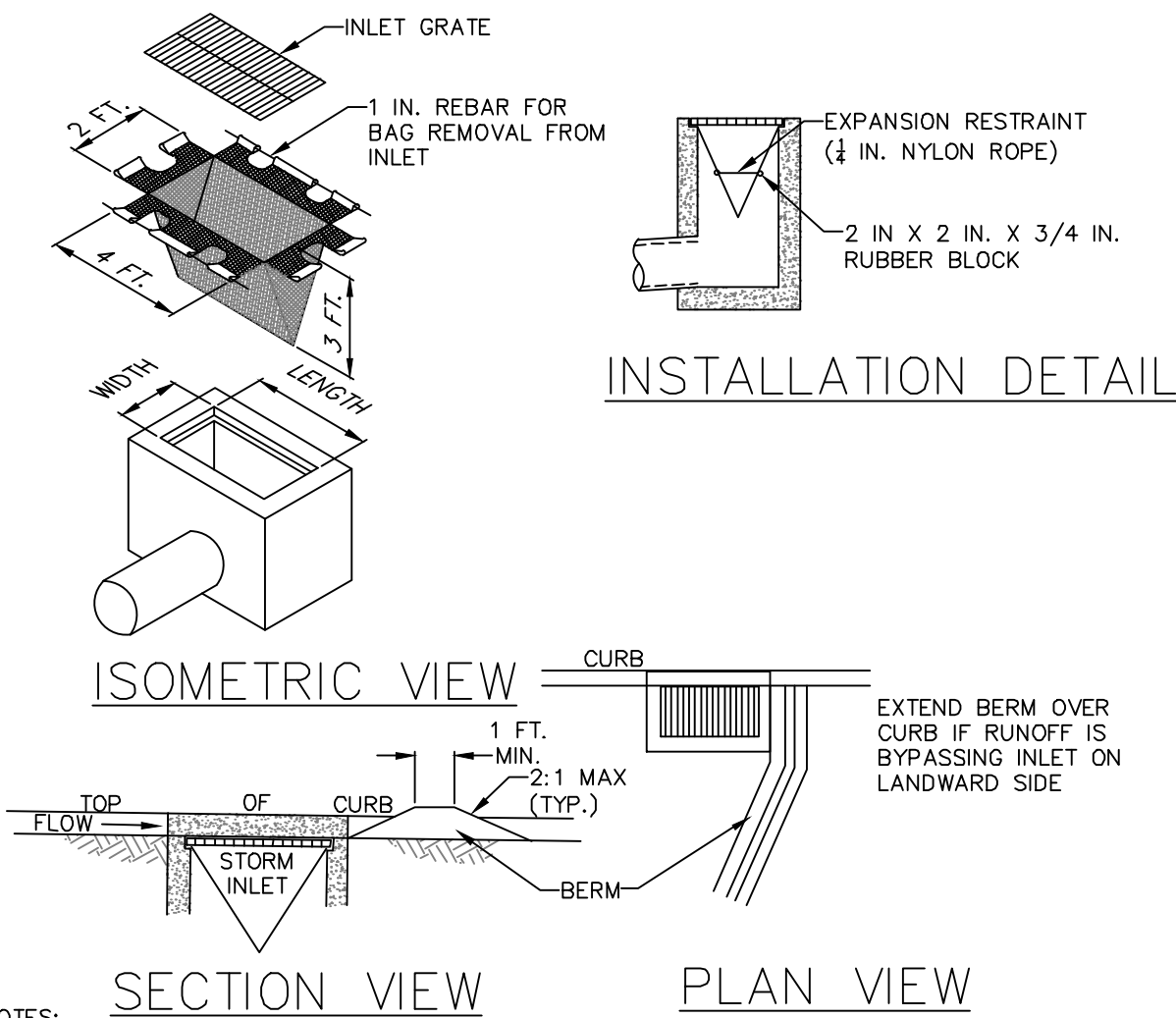
TABLE – RADIUS OF TREE PROTECTION ZONE (TPZ)

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



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

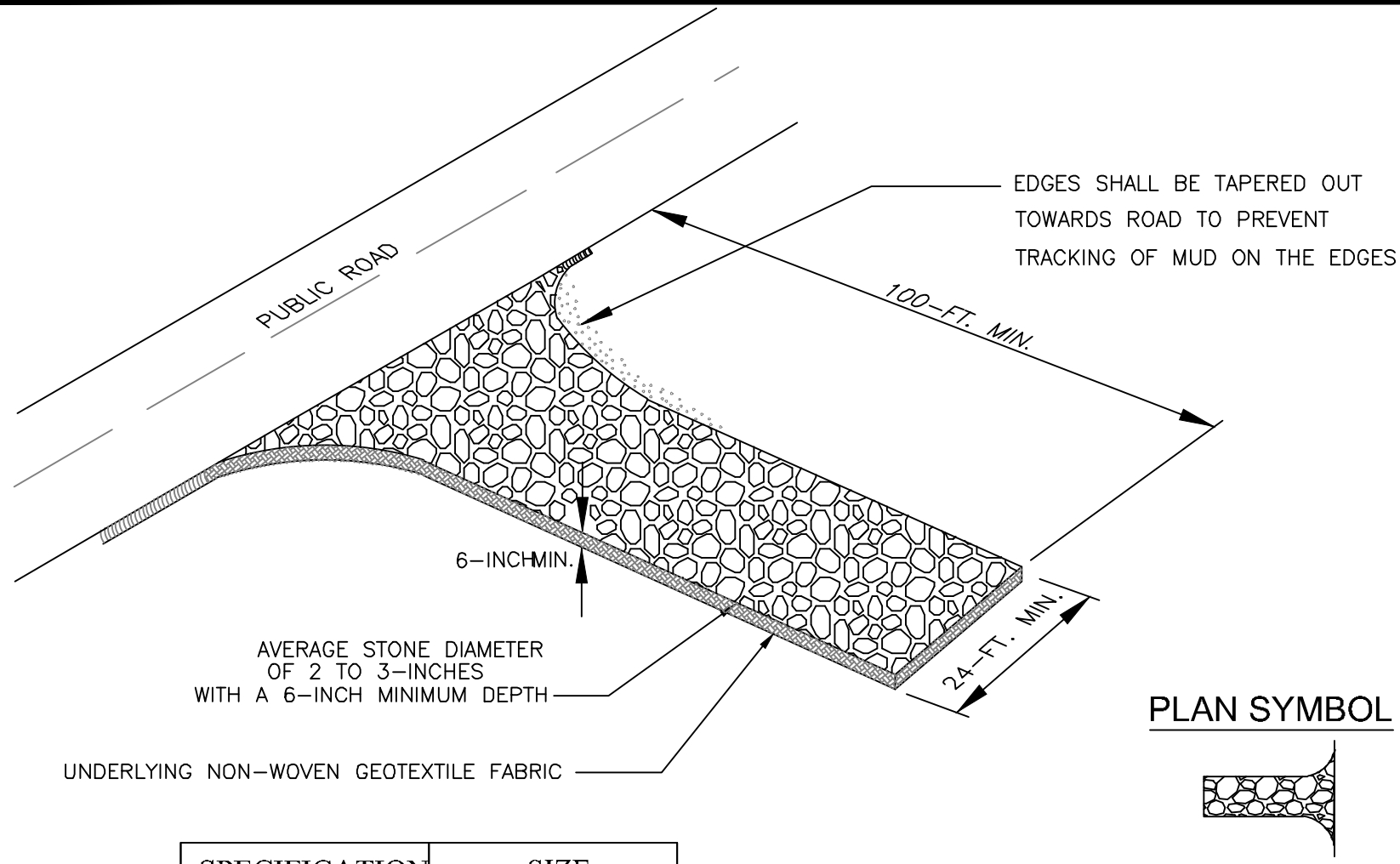
ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER BAG GRATE INLET PROTECTION

NO SCALE



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

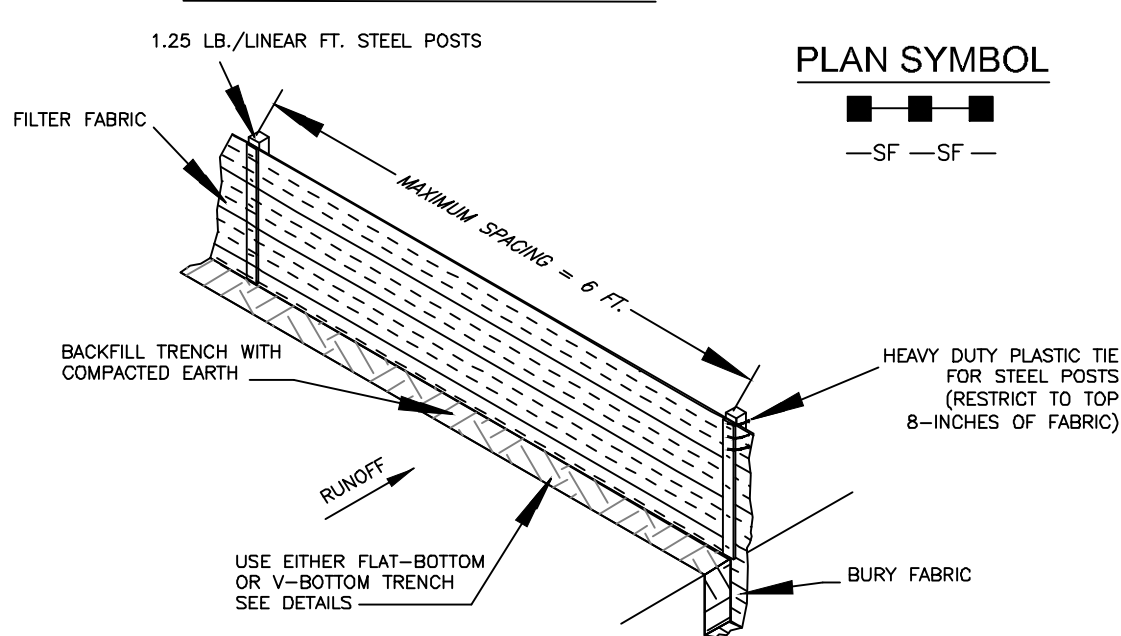
CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 1 of 2

NOT TO SCALE

FEBRUARY 2014
DATE

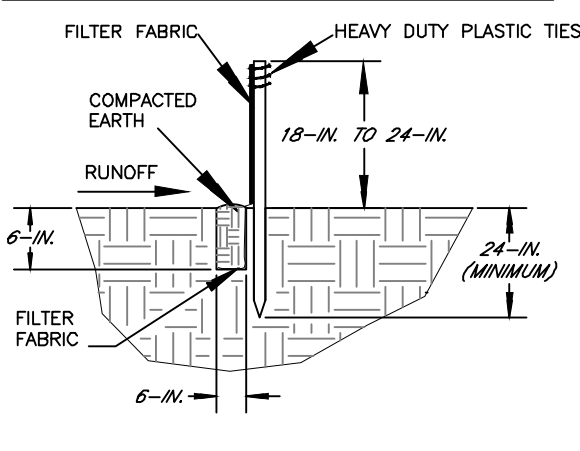
SILT FENCE INSTALLATION



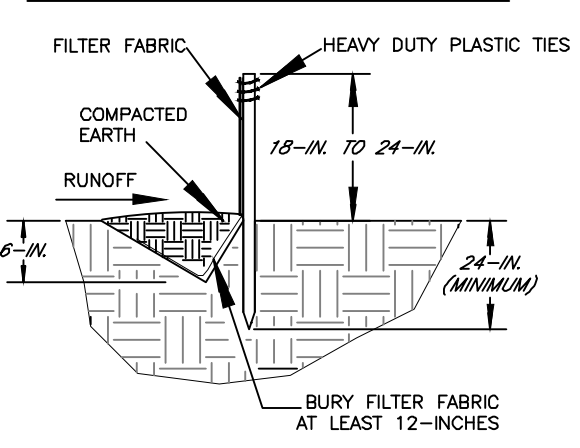
SILT FENCE – GENERAL NOTES

- 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.

FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL



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

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 event 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
DATE

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.
 - Weight 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 polypropylene, 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 tied 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.

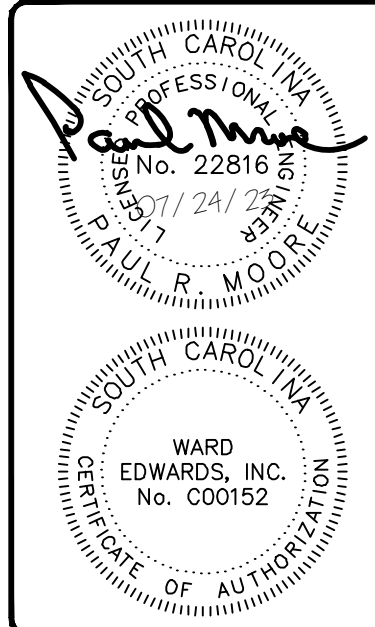
ADHESIVE	WATER DILUTION	NOZZLE TYPE	APPLICATION (GAL./ACRE)
ANIONIC ASPHALT EMULSION	7:1*	COARSE SPRAY	1,200
LATEX EMULSION	12.5:1*	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1*	FINE SPRAY	300

*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 TACKIFY 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 SOLS (NOT MUCK SOILS) AS DESCRIBED IN TABLE 1.

DC

DUST CONTROL ON DISTURBED AREAS



No.	Description	Plan Revisions	Date
7			
6			
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New Riverside Village Commercial	Prepared for	Architecture 101	Initial Erosion Control Details
Town of Bluffton, South Carolina			

Vert. Datum:	NAVD88
Horiz. Datum:	SC83IF
Surveyed by:	JWR
Surveyor's PLS:	28139

Project #:	220145
Date:	07/24/23
Designed by:	ASH
Checked by:	PRM

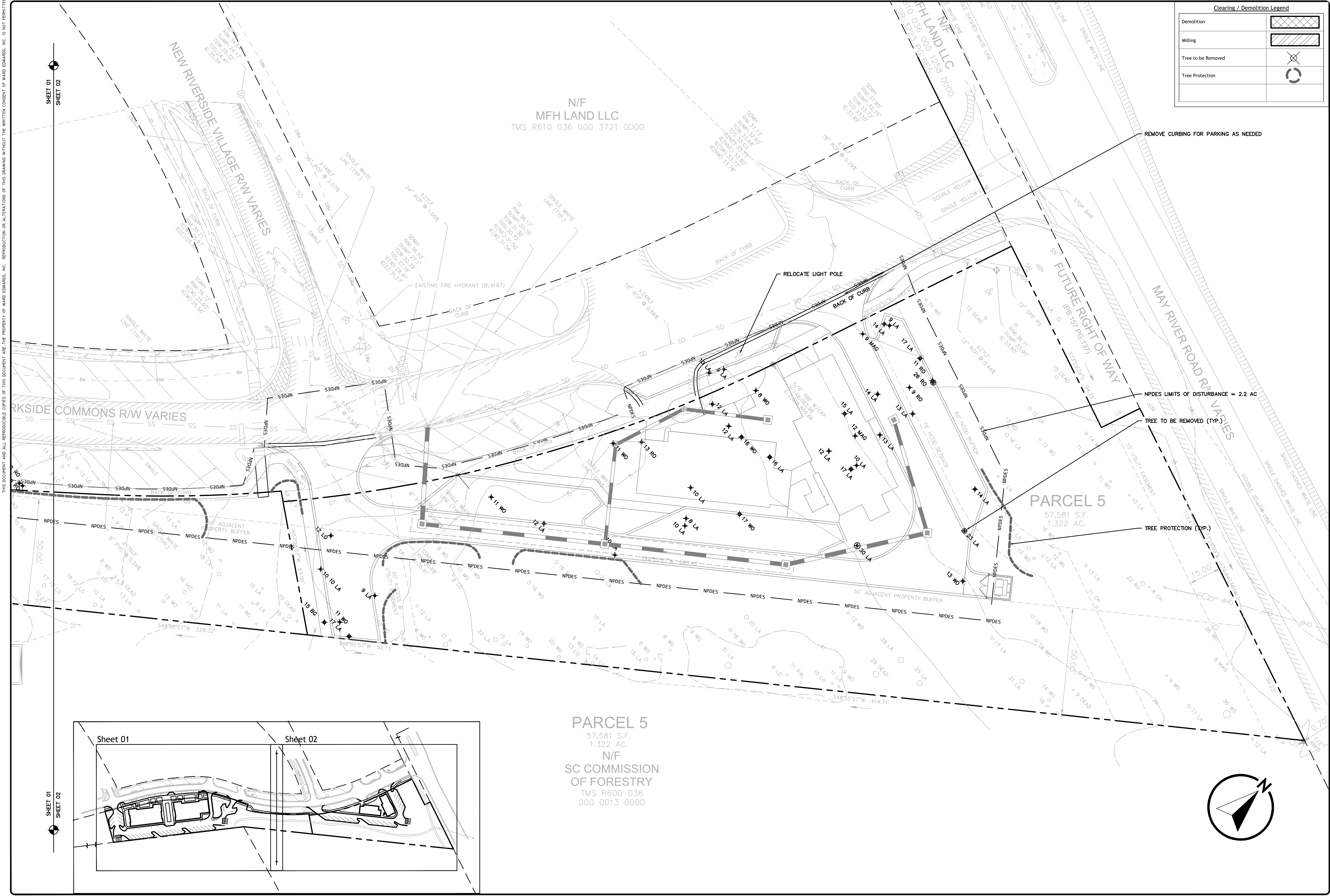
Not to Scale

C203

Permit Set - NOT FOR CONSTRUCTION



Permit Set - NOT FOR CONSTRUCTION



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

WARD
EDWARDS, INC.
No. 000152

WARD
EDWARDS, INC.
No. 000152

No.	Description	Date
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Ward Edwards
ENGINEERING

110C Palmetto Way
P.O. Box 281 Bluffton
South Carolina 29910

(843) 837-5250
www.WardEdwards.com

New Riverside Village Commercial
Town of Bluffton, South Carolina

Prepared for
Architecture 101

Clearing & Demolition Plan

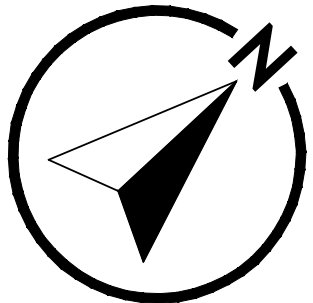
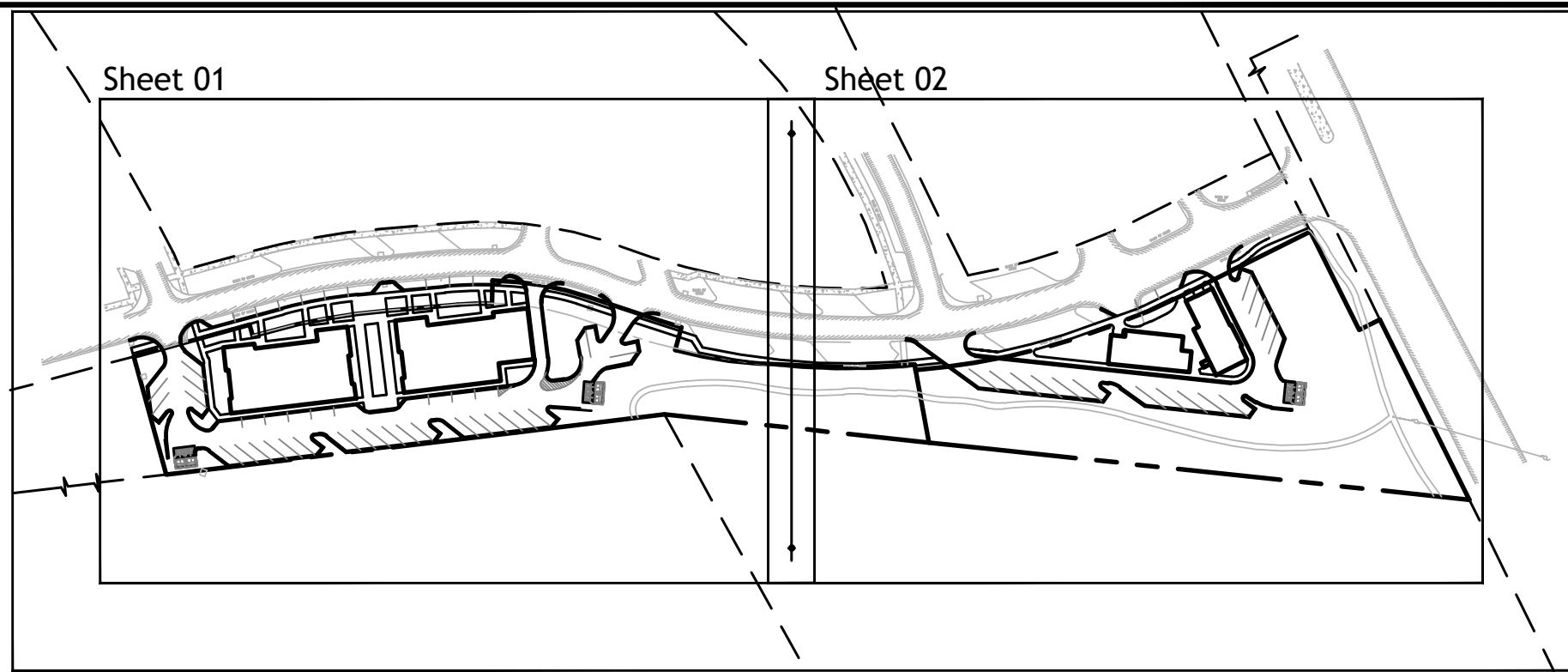
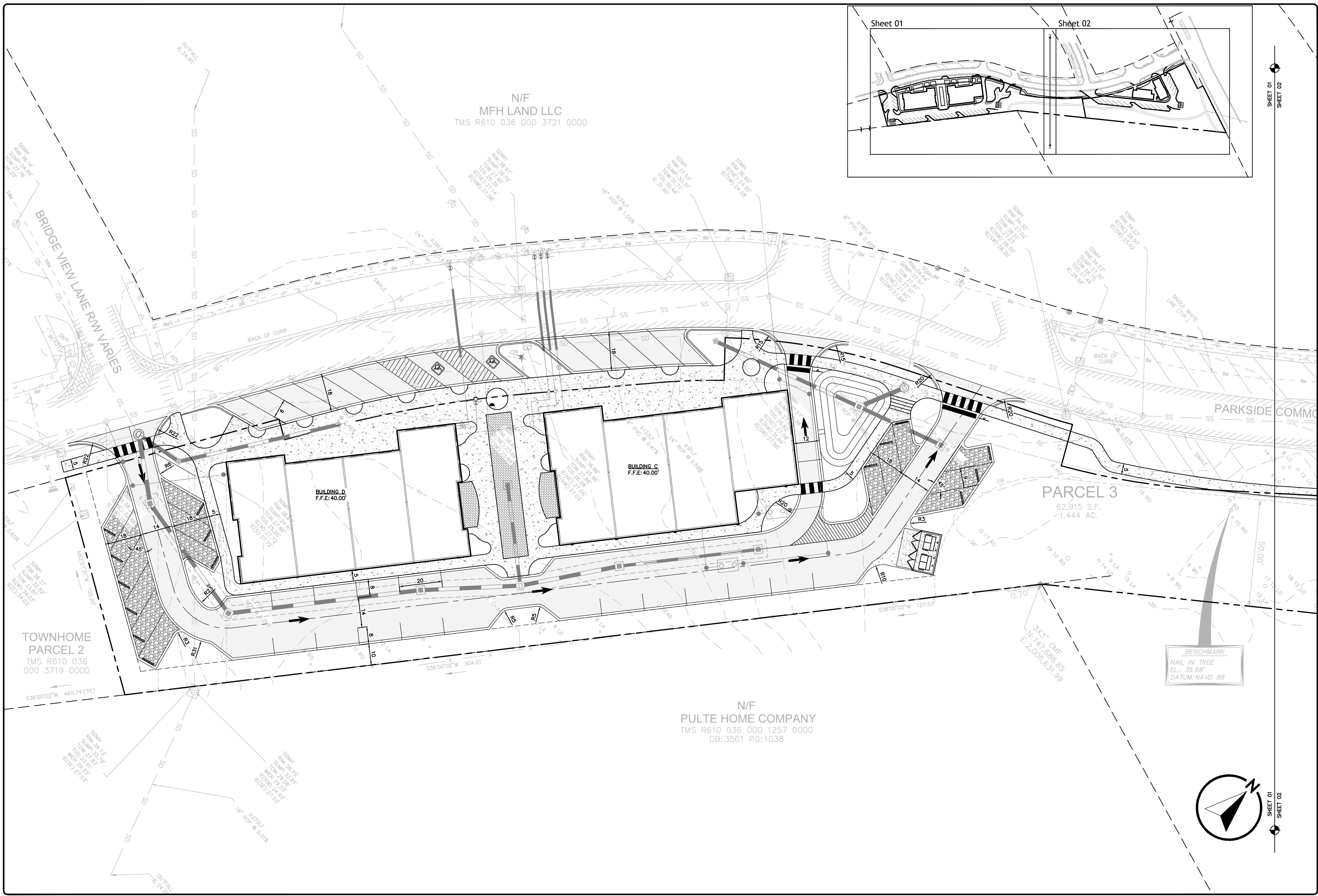
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Horiz. Datum: SC83IF
Surveyed by: JWR
Surveyor's PLS: 28139

Project #: 220145
Date: 07/24/23
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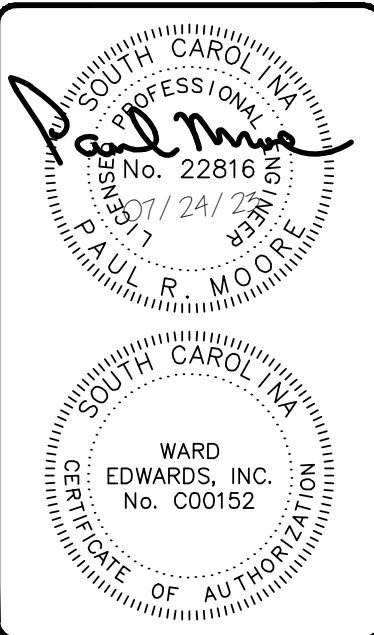
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C302

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BENCHMARK
NAIL IN TREE
E.L.: 35.68'
DATUM: NAVD 88



No.	Description	Date
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6		
5		
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3		
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Ward Edwards Engineering
110C Palmetto Way
P.O. Box 281 Bluffton, SC 29910
(843) 837-5250
www.WardEdwards.com

New Riverside Village Commercial
Town of Bluffton, South Carolina
Prepared for
Architecture 101
Site Layout Plan

Vert. Datum: NAVD88
Horiz. Datum: SC83IF
Surveyed by: JWR
Surveyor's PLS: 28139

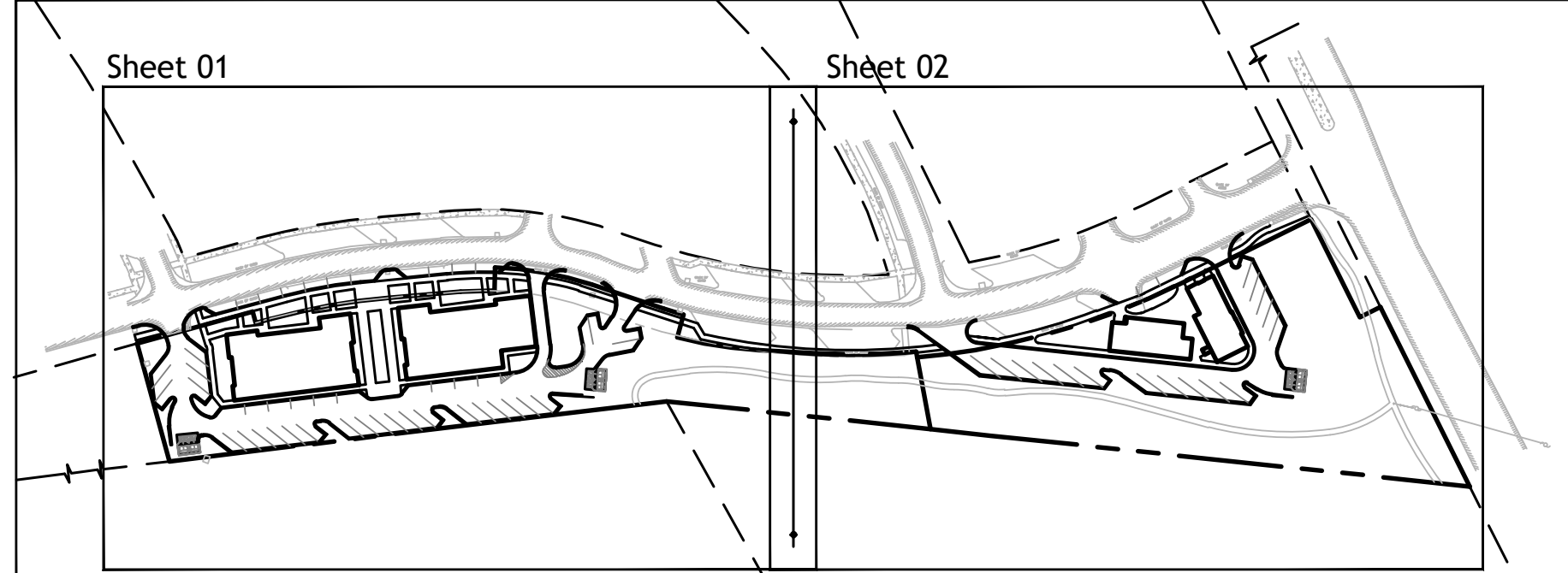
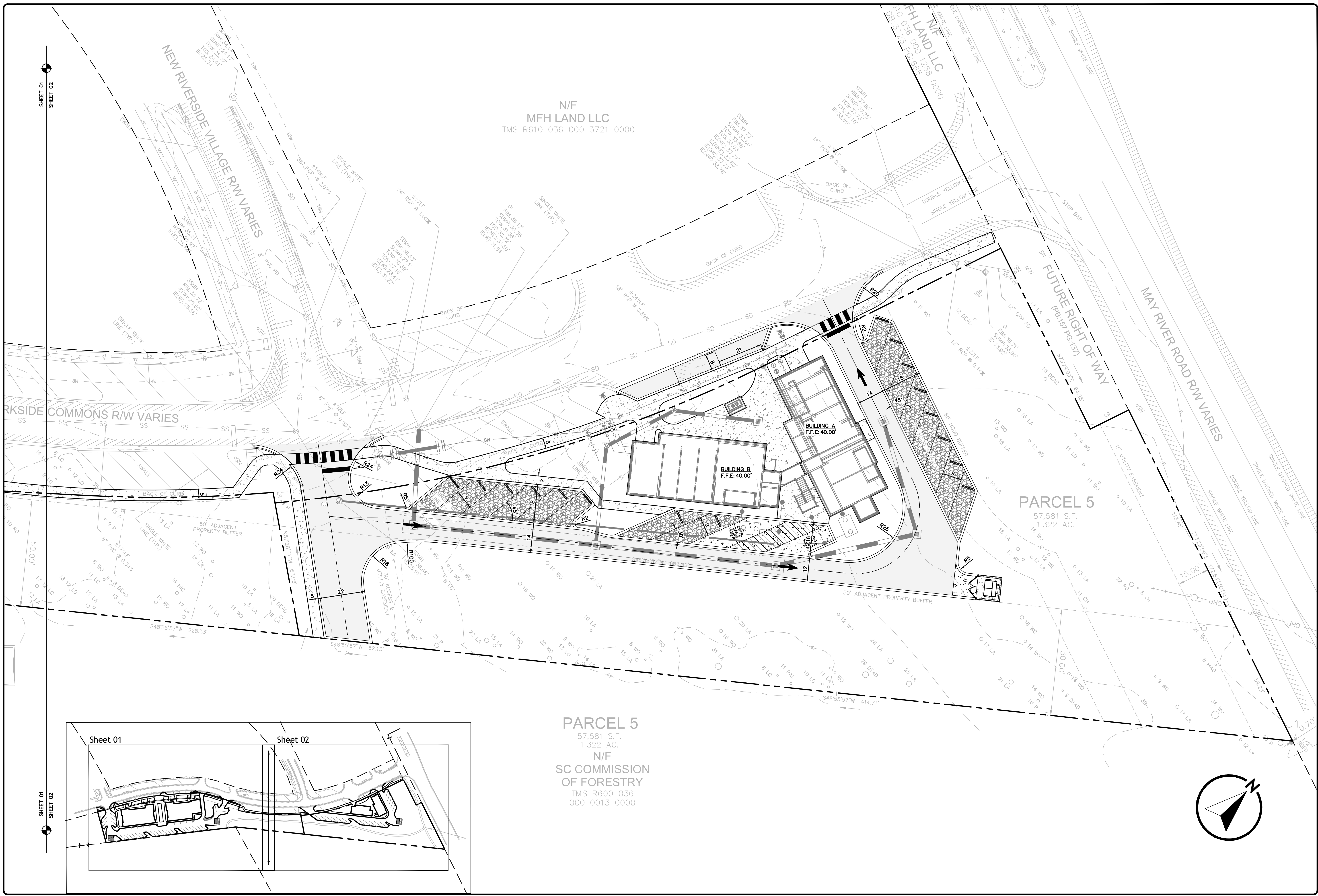
Project #: 220145
Date: 07/24/23
Designed by: ASH
Checked by: PRM

Scale: 1" = 20' Feet

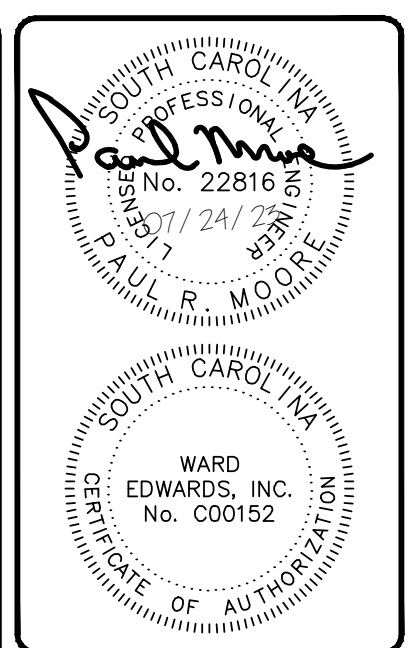
C401

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PARCEL 5
57,581 S.F.
1.322 AC.
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SC COMMISSION OF FORESTRY
TMS R600 036
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No.	Description	Date
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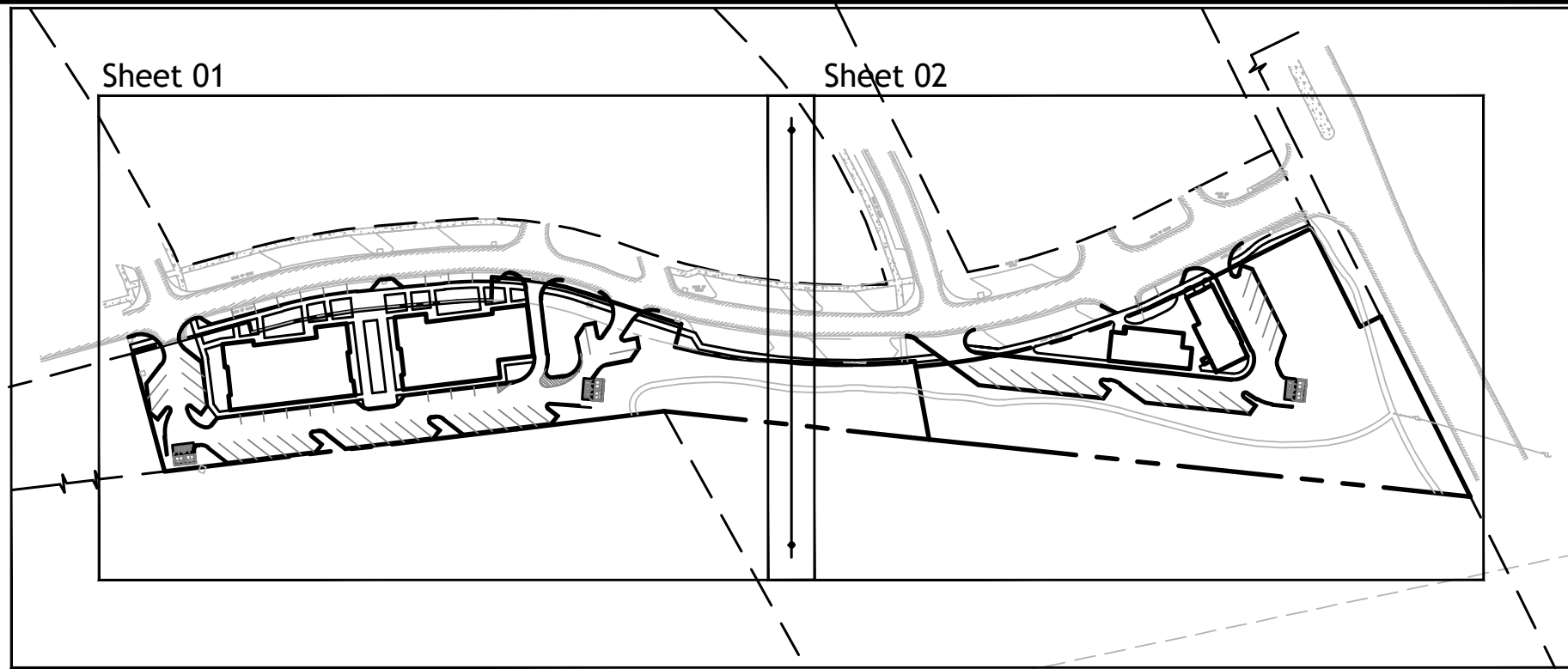
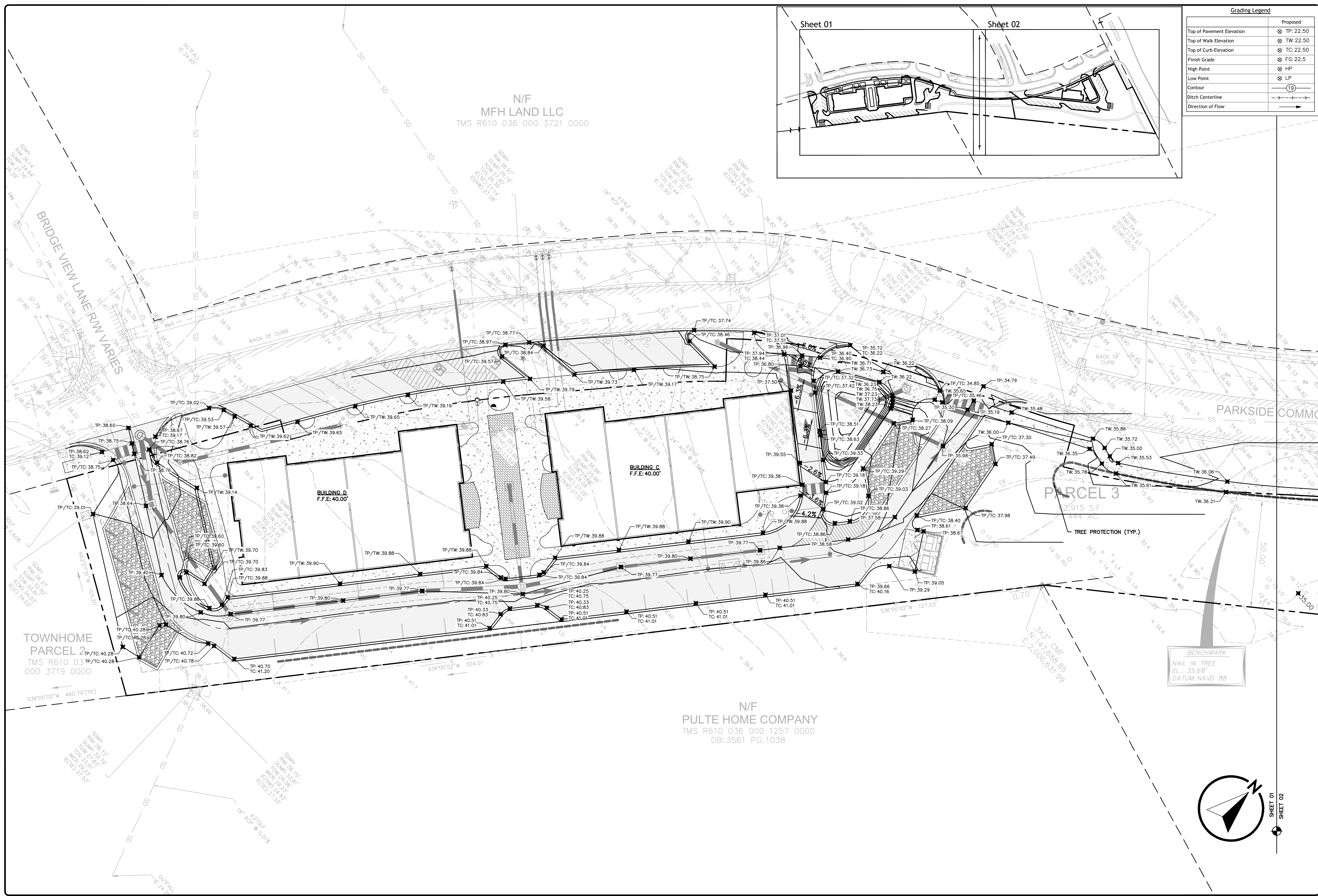
New Riverside Village Commercial
Town of Bluffton, South Carolina
Prepared for
Architecture 101
Site Layout Plan

Vert. Datum:	NAVD88
Horiz. Datum:	SC83IF
Surveyed by:	JWR
Surveyor's PLS:	28139
Project #:	220145
Date:	07/24/23
Designed by:	ASH
Checked by:	PRM

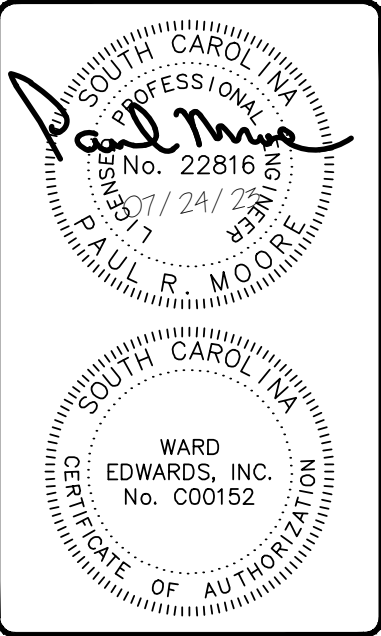
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Grading Legend	
Top of Pavement Elevation	TP: 22.50
Top of Walk Elevation	TW: 22.50
Top of Curb Elevation	TC: 22.50
Finish Grade	FG: 22.5
High Point	HP
Low Point	LP
Contour	19
Ditch Centerline	
Direction of Flow	



No.	Description	Date
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Prepared for
Architecture 101

Grading Plan

Vert. Datum: NAVD88
Horiz. Datum: SC83IF
Surveyed by: JWR
Surveyor's PLS: 28139

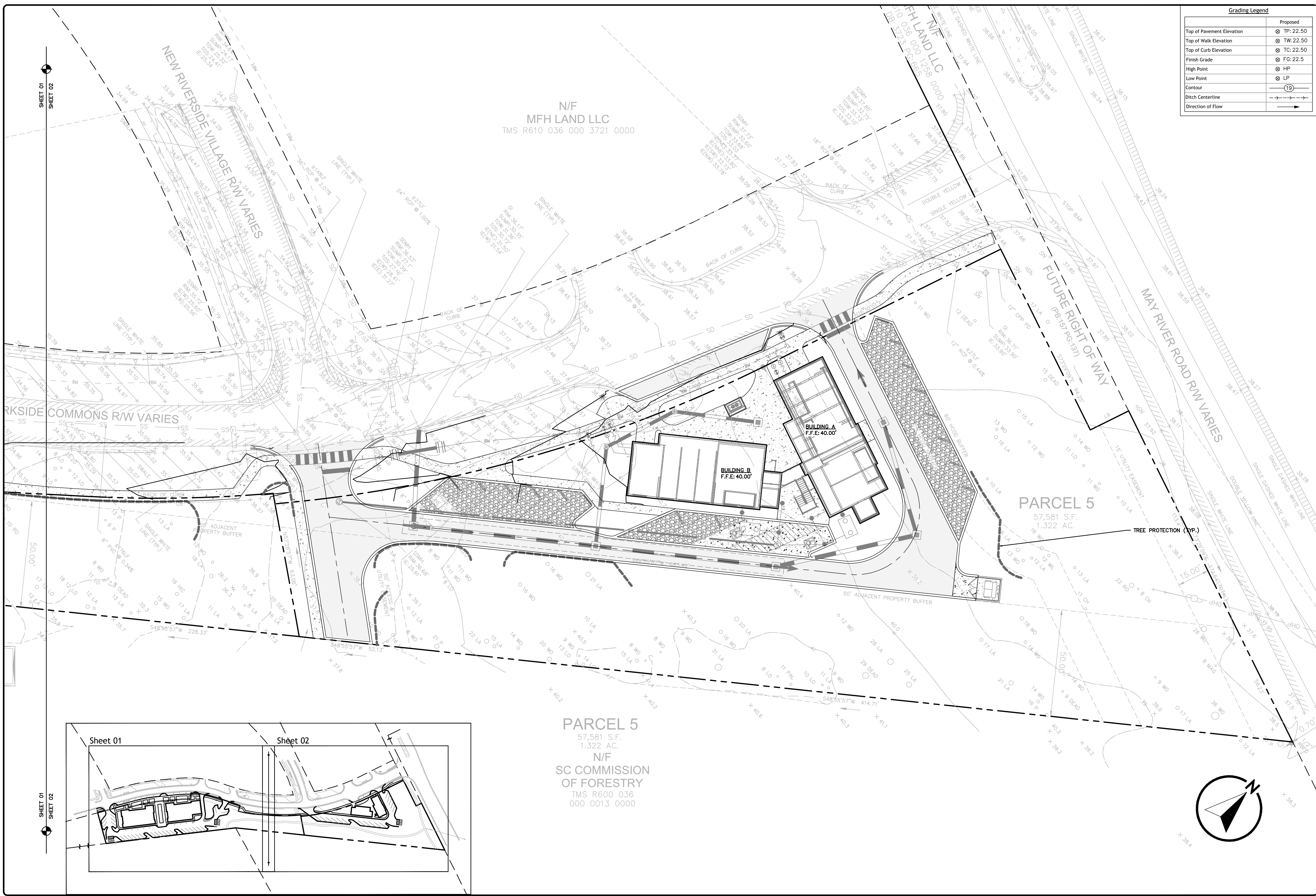
Project #: 220145
Date: 07/24/23
Designed by: ASH
Checked by: PRM

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Scale: 1" = 20' Feet

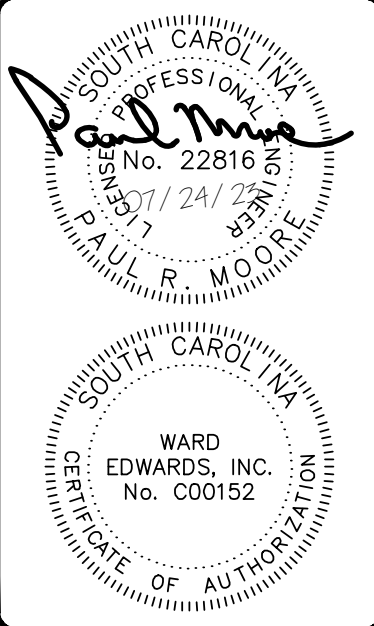
C501

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Grading Legend	
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	



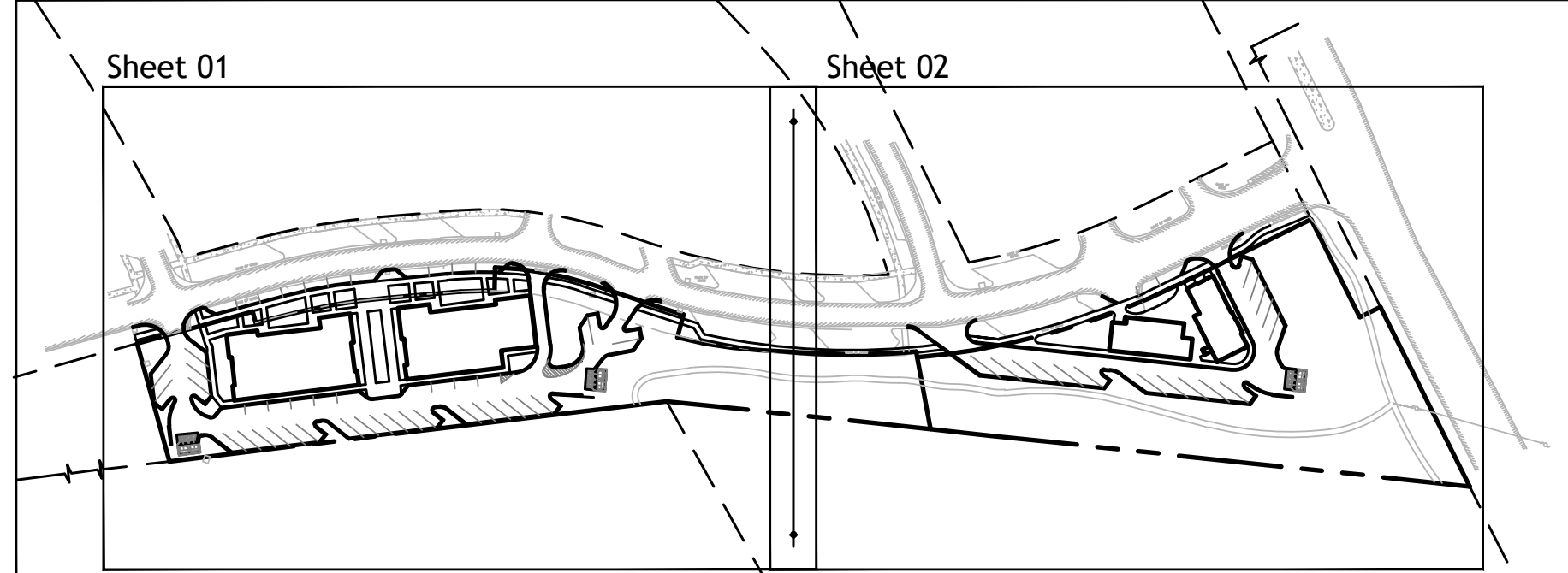
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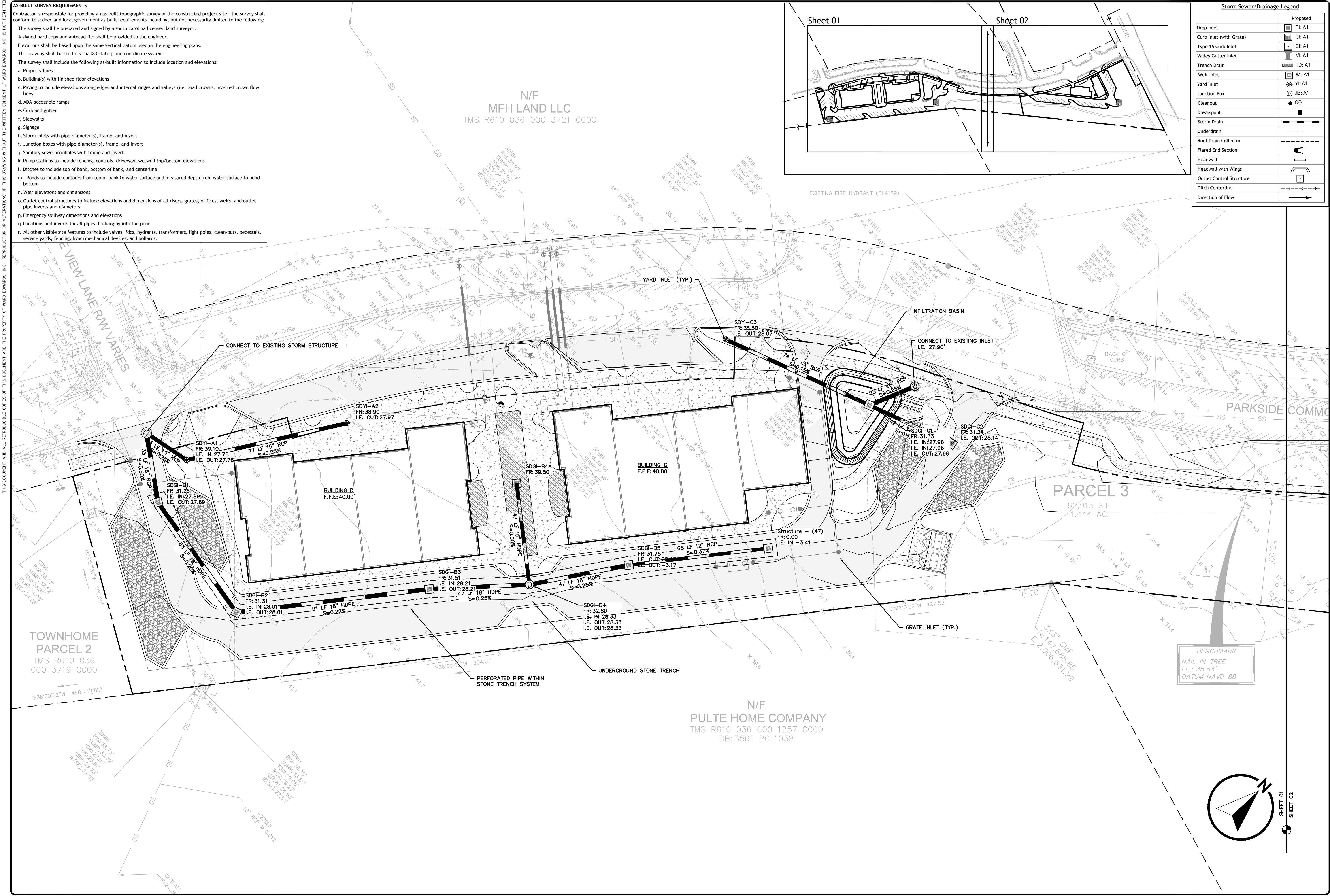
New Riverside Village Commercial
Town of Bluffton, South Carolina
Prepared for
Architecture 101
Grading Plan

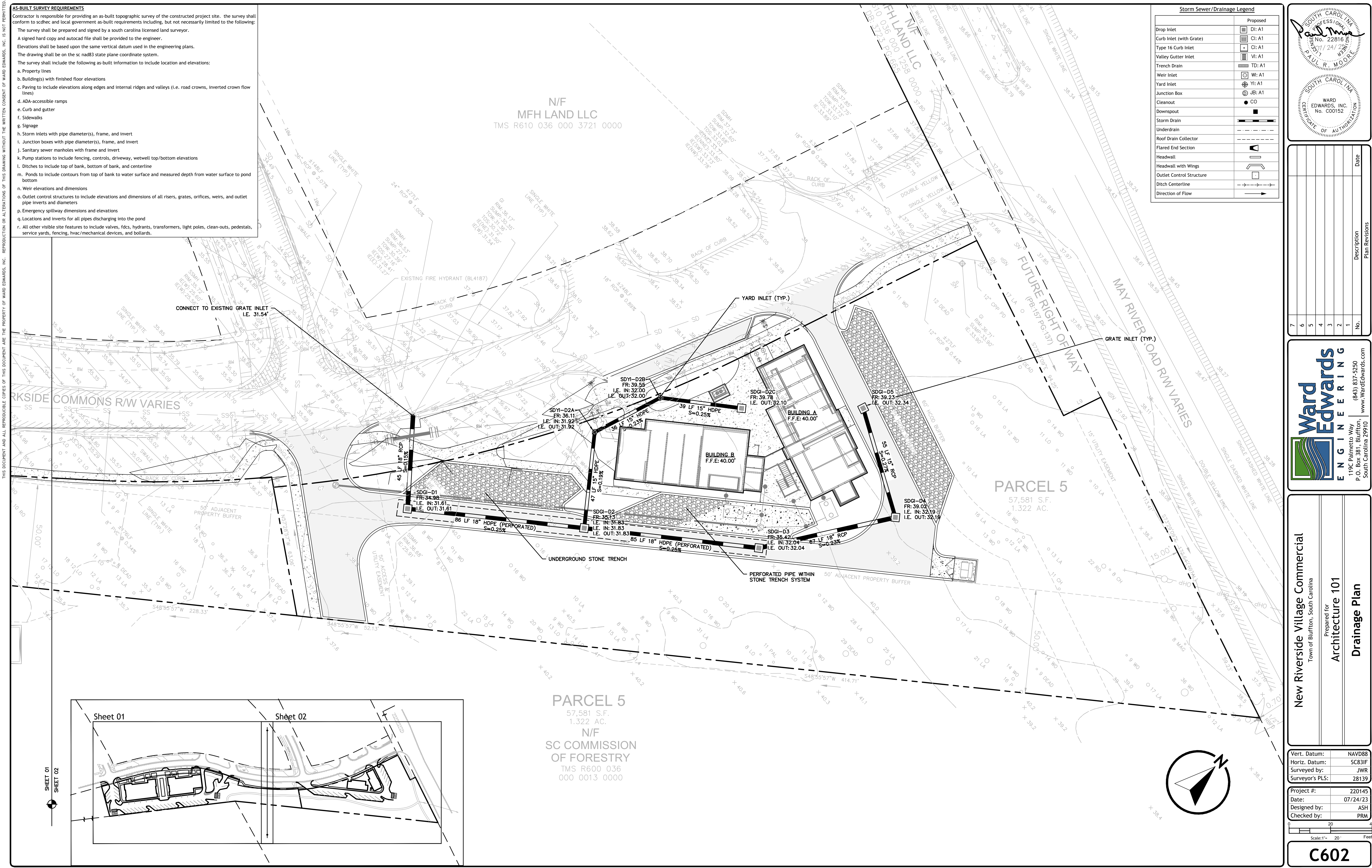
Vert. Datum:	NAVD88
Horiz. Datum:	SC83IF
Surveyed by:	JWR
Surveyor's PLS:	28139
Project #:	220145
Date:	07/24/23
Designed by:	ASH
Checked by:	PRM

Scale: 1" = 20' Feet
C502

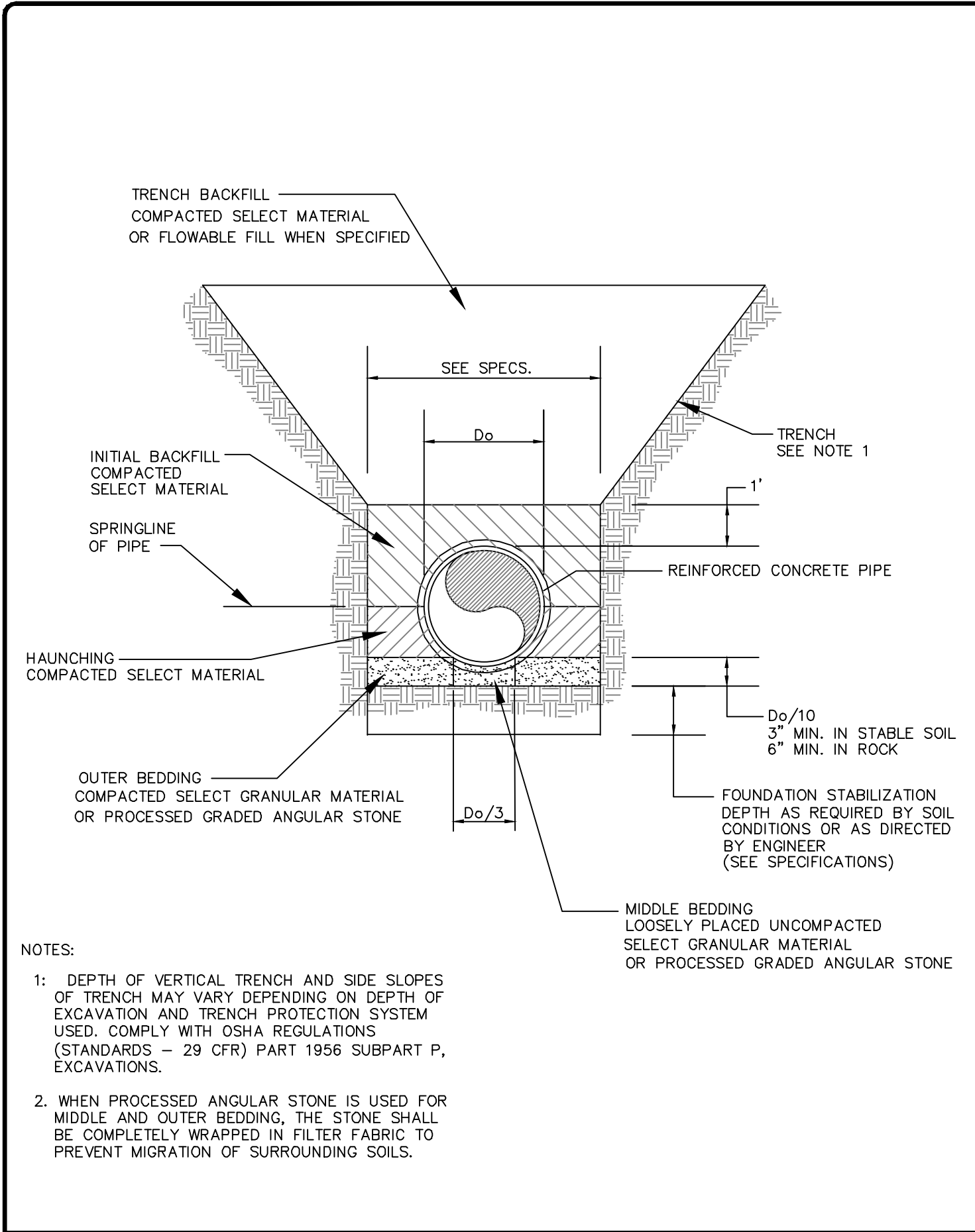


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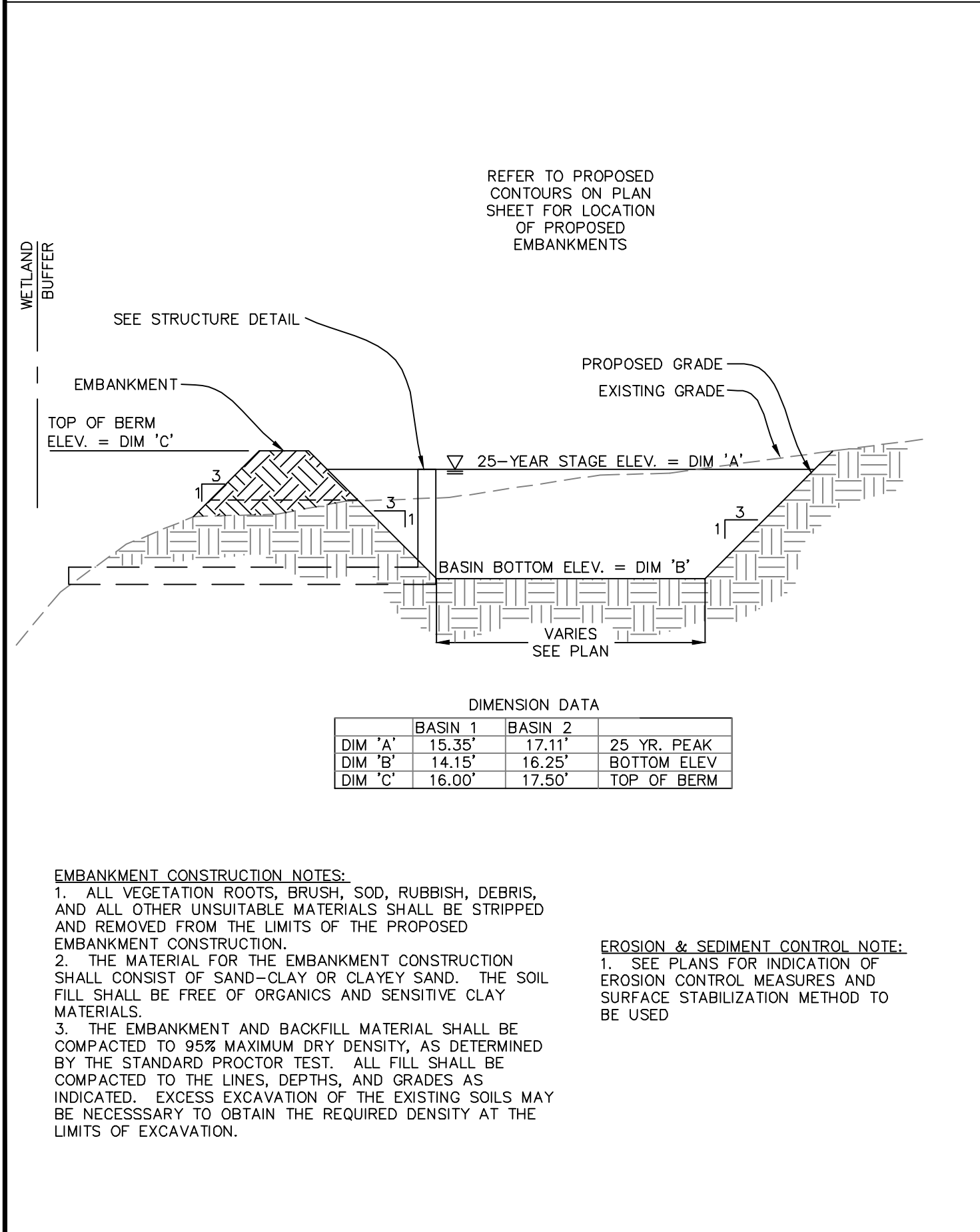




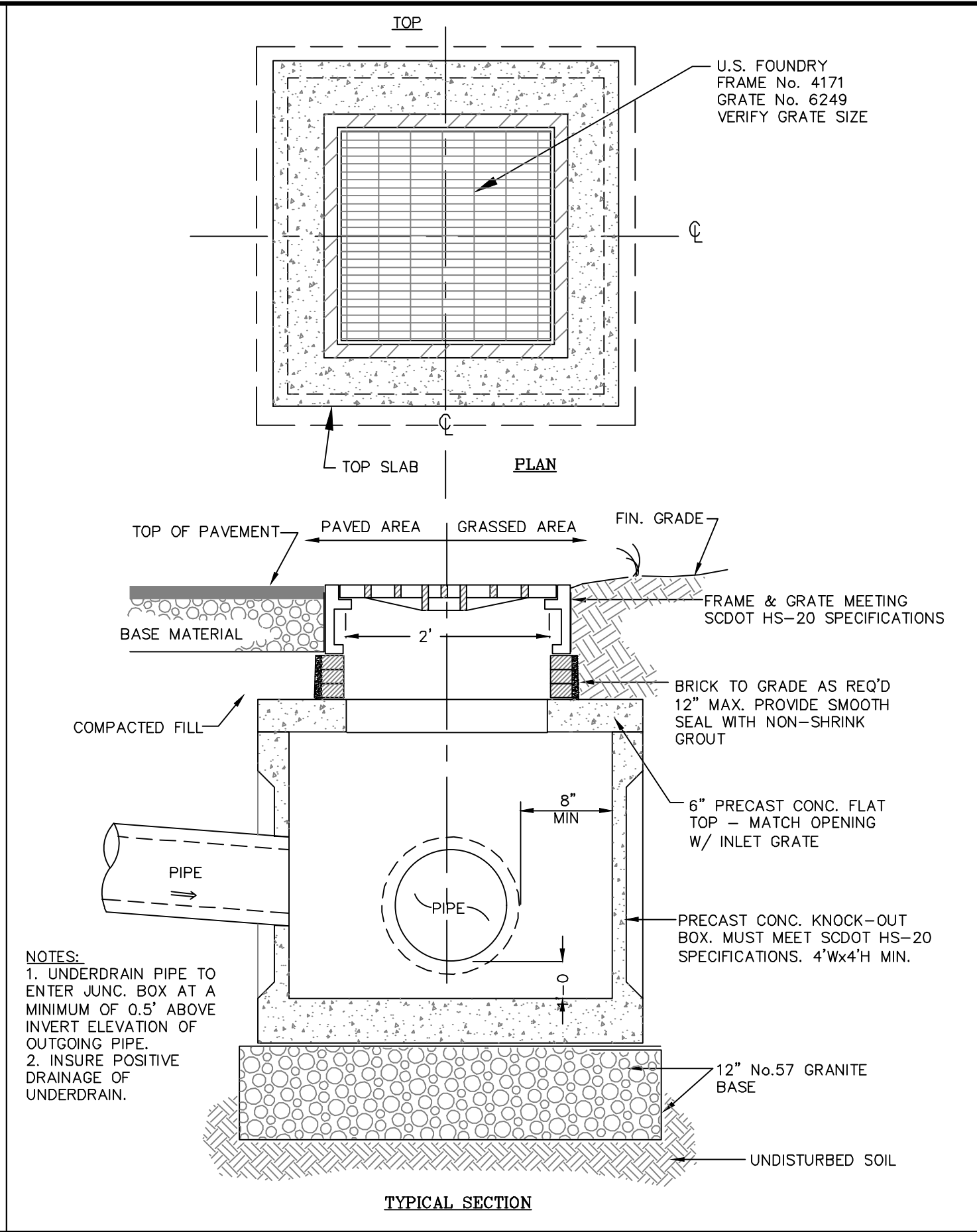
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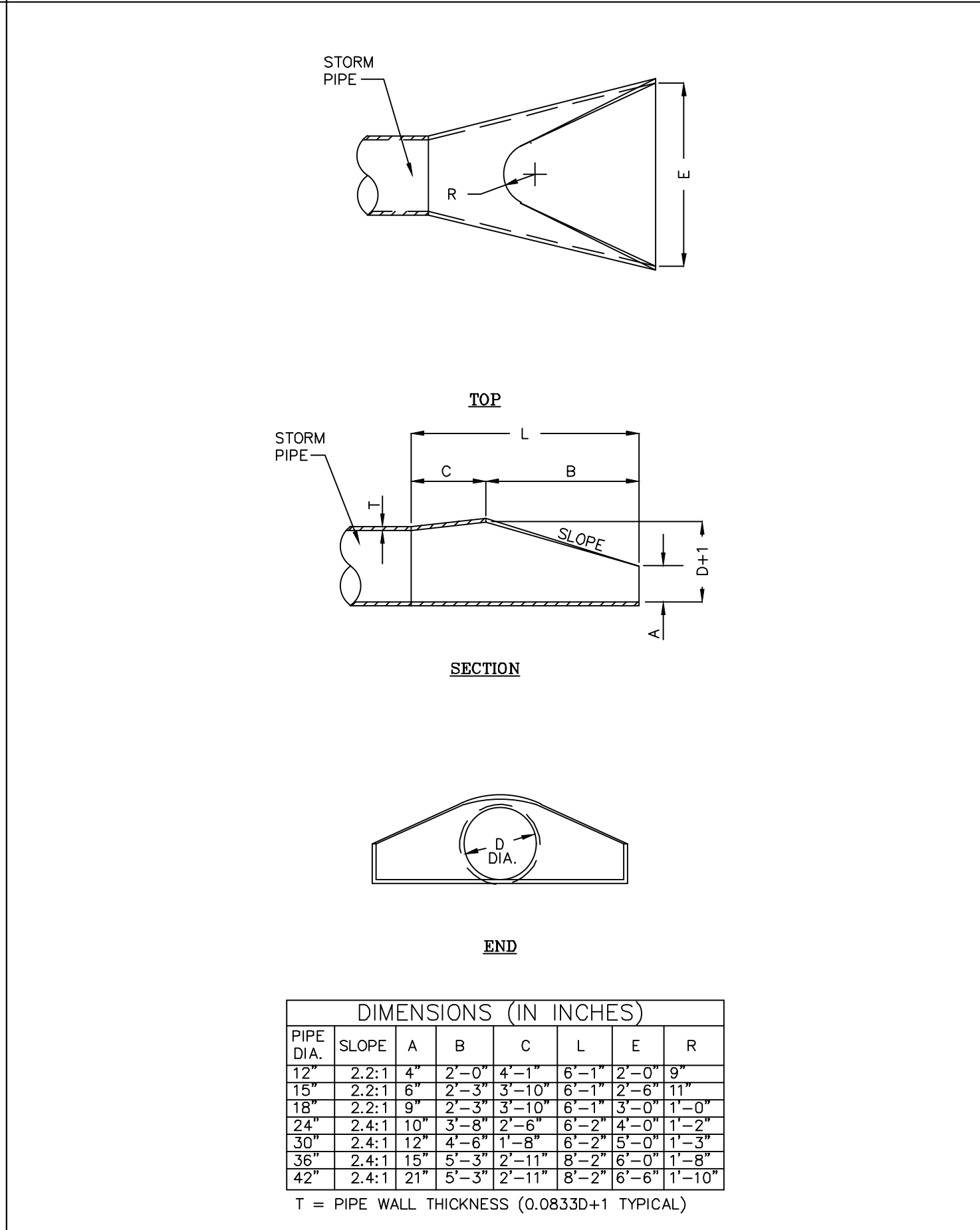
EMBEDMENT DETAIL FOR REINFORCED CONCRETE PIPE



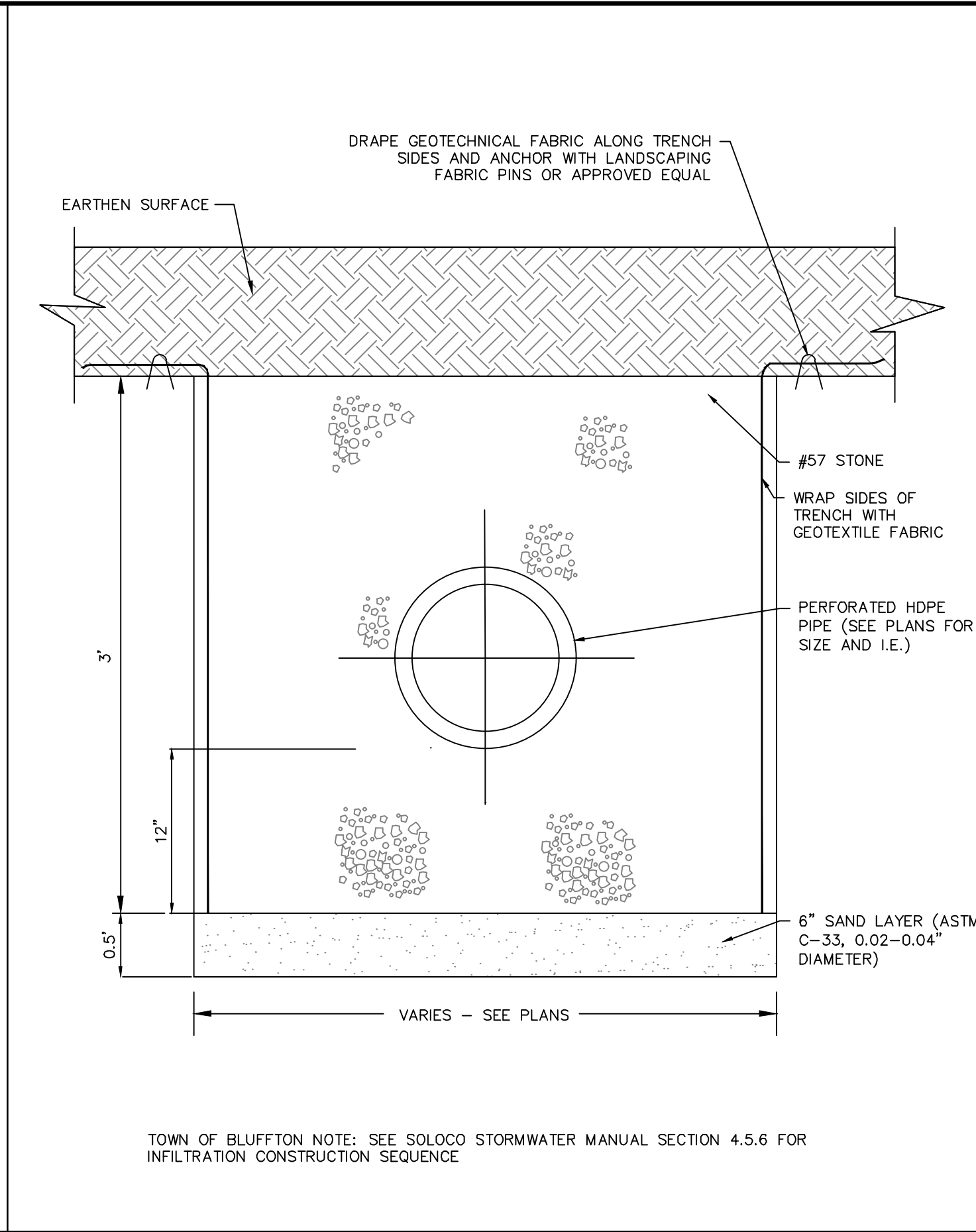
DRY DETENTION BASIN CROSS SECTION



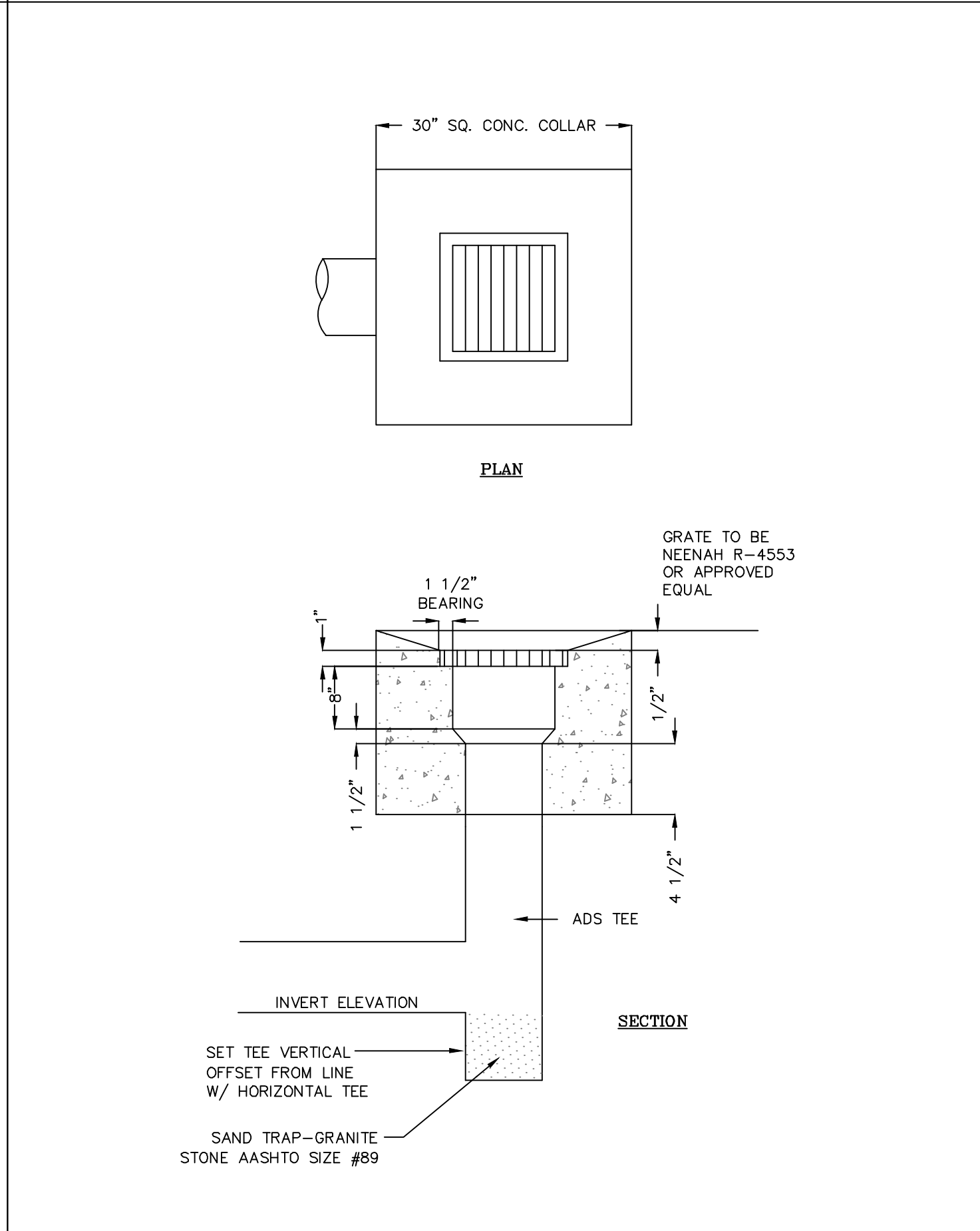
GRATE INLET



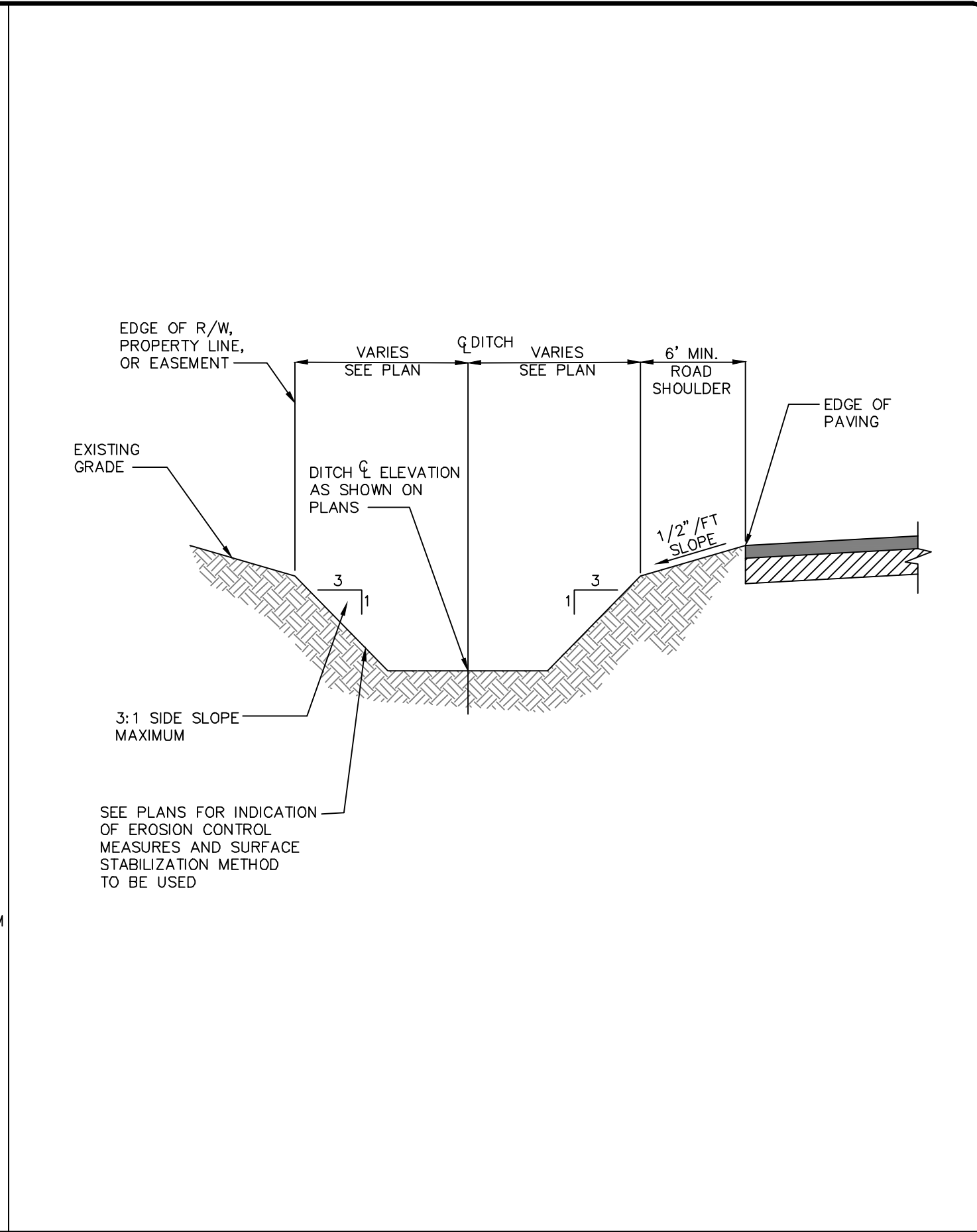
CONCRETE FLARED END SECTION



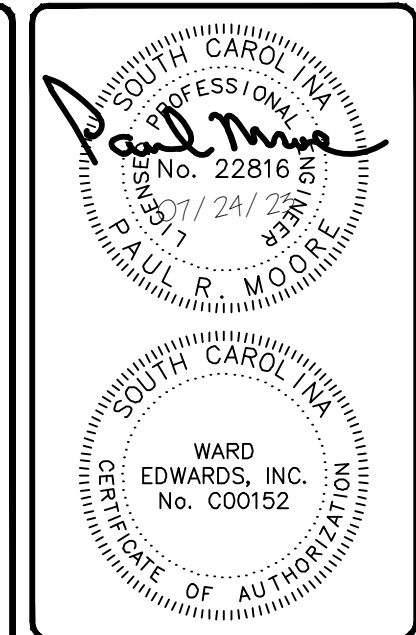
UNDERGROUND STONE TRENCH DETAIL



YARD INLET



TYPICAL DITCH CROSS SECTION



No.	Description	Date
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Architecture 101

Drainage Details

Vert. Datum:	NAVD88
Horiz. Datum:	SC83IF
Surveyed by:	JWR
Surveyor's PLS:	28139
Project #:	220145
Date:	07/24/23
Designed by:	ASH
Checked by:	PRM

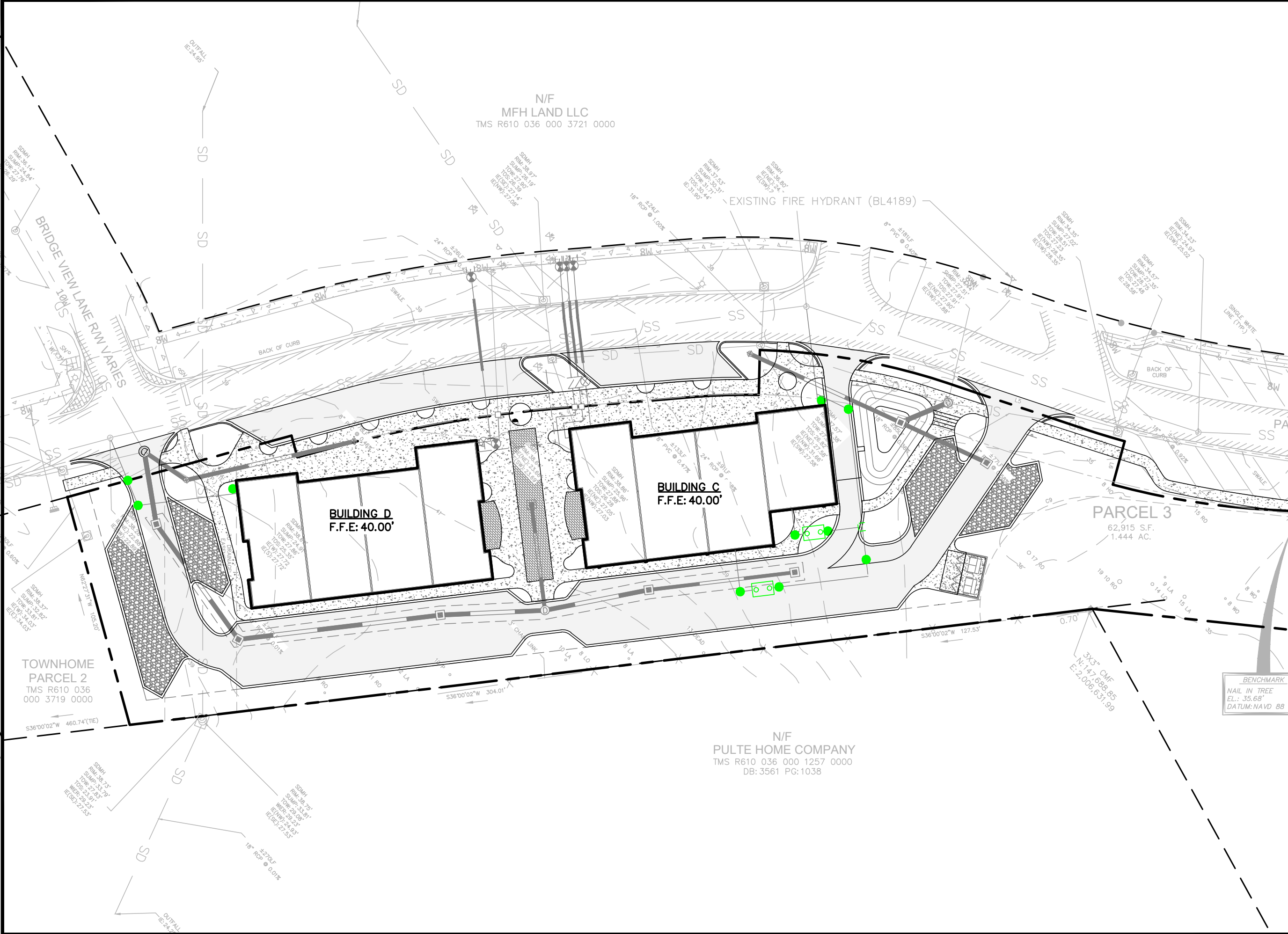
Not to Scale

C603

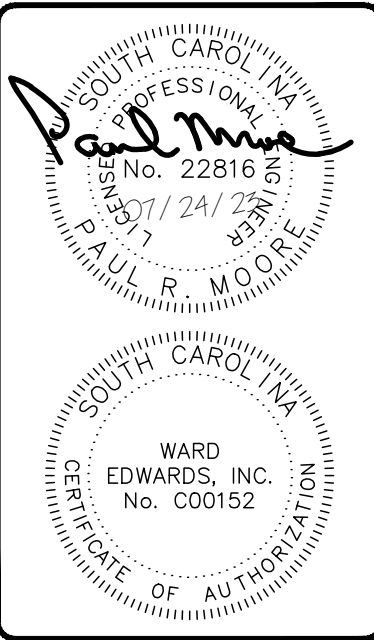
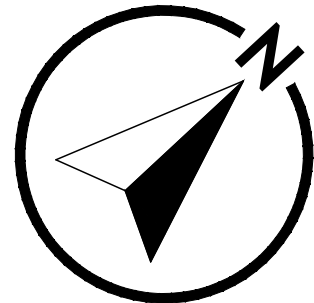
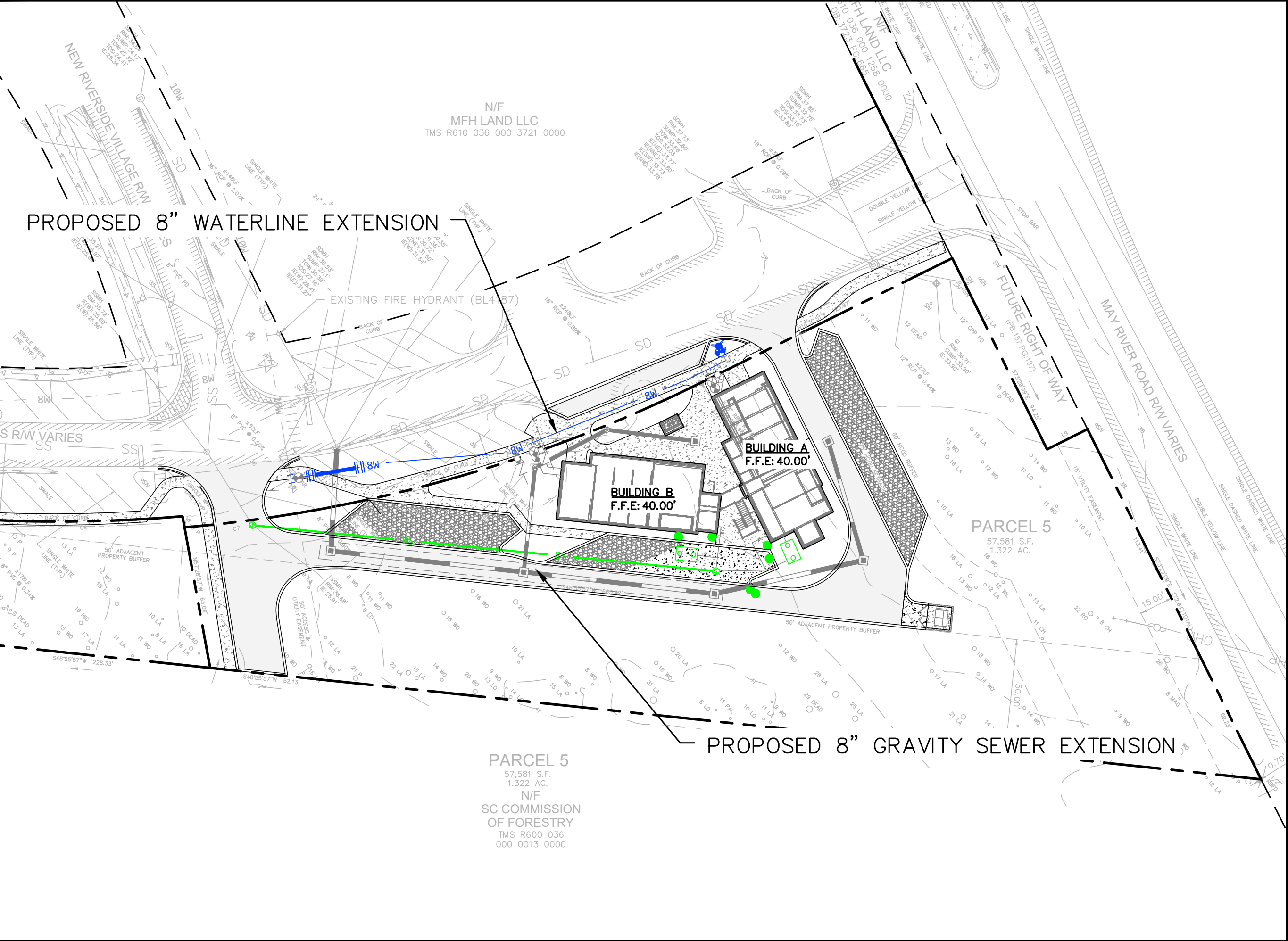
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Sheet 01



Sheet 02



No.	Description	Date
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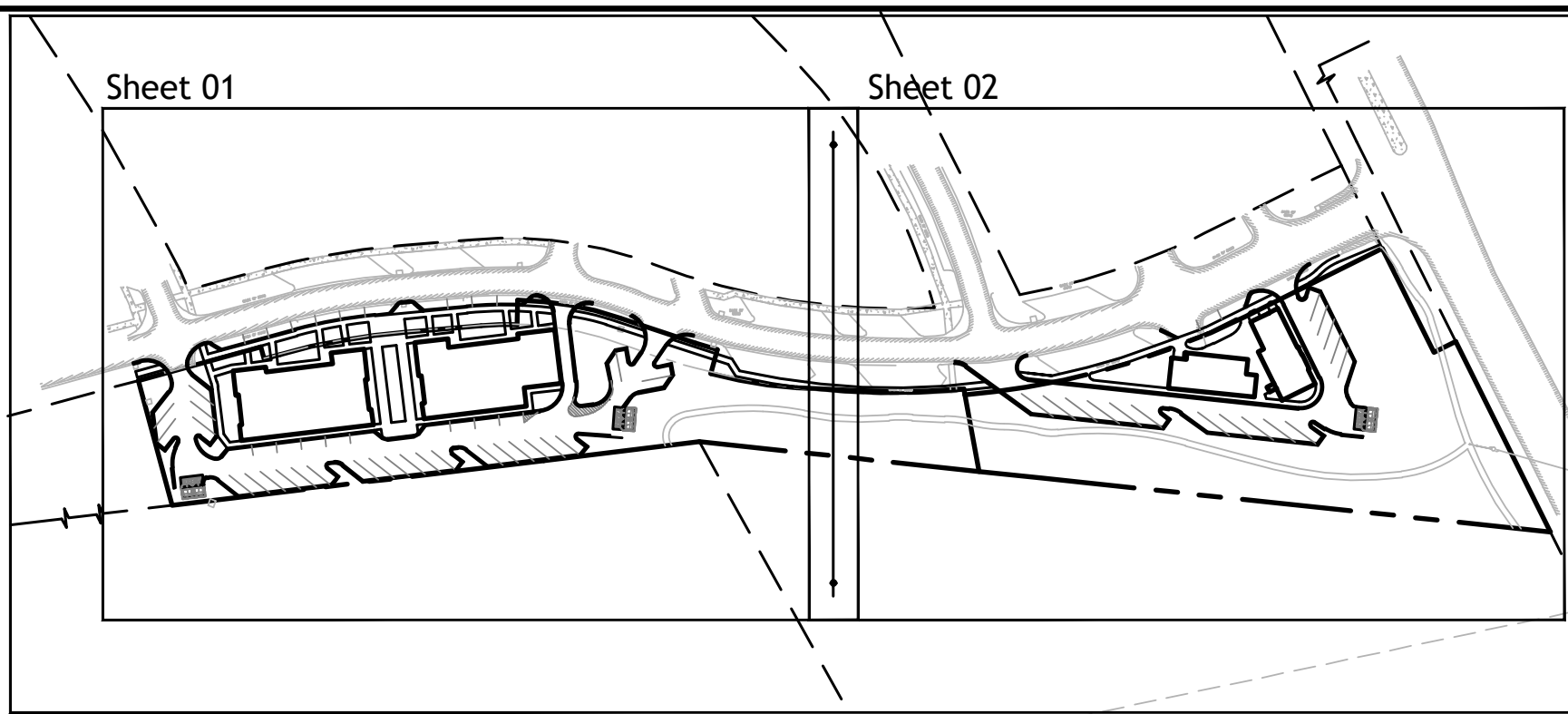
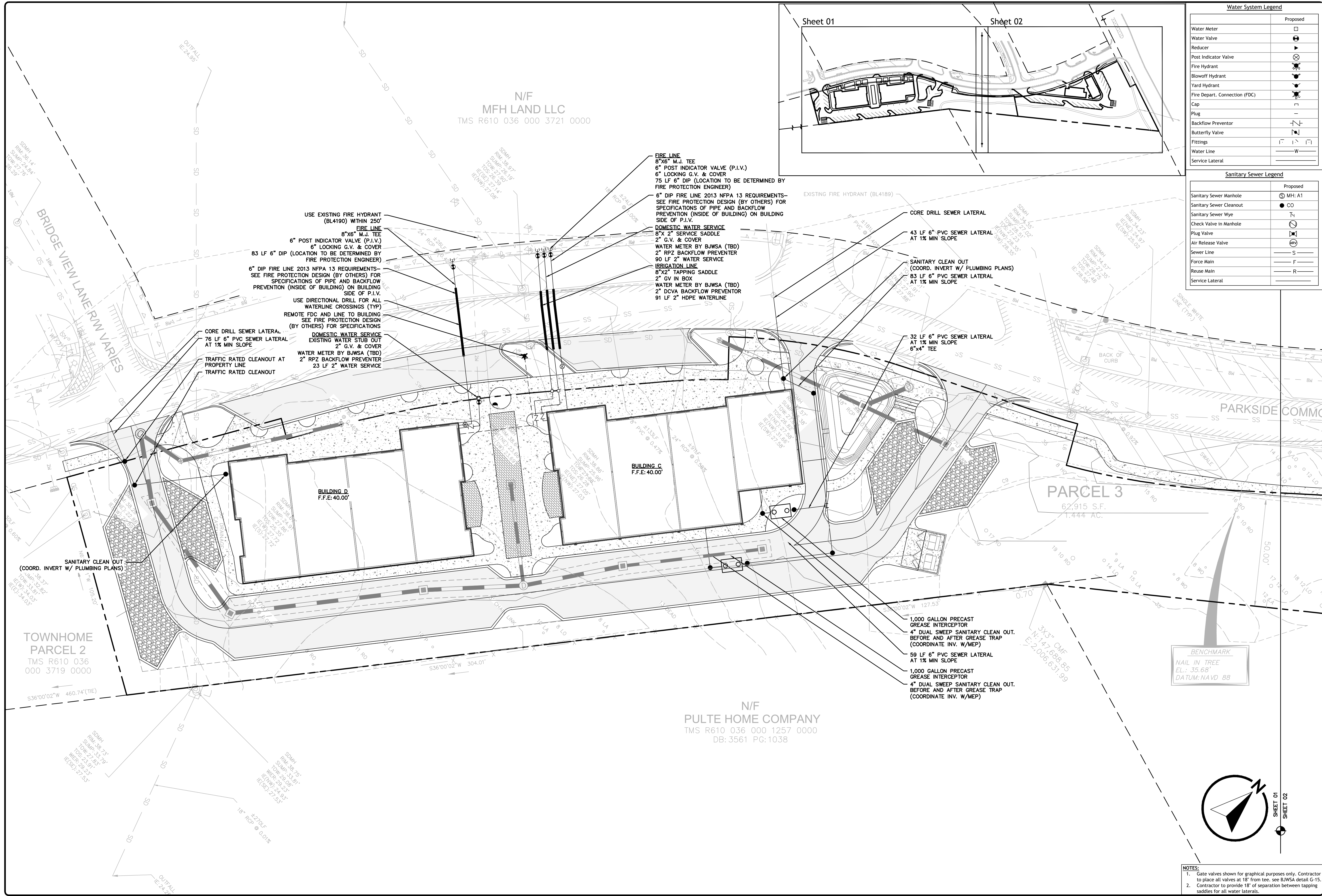
New Riverside Village Commercial
Town of Bluffton, South Carolina
Prepared for
Architecture 101
Overall Utility Plan

Vert. Datum:	NAVD88
Horiz. Datum:	SC83IF
Surveyed by:	JWR
Surveyor's PLS:	28139
Project #:	220145
Date:	07/24/23
Designed by:	ASH
Checked by:	PRM

Scale: 1" = 40' Feet

C700

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Water System Legend	
	Proposed
Water Meter	□
Water Valve	□
Reducer	▸
Post Indicator Valve	⊗
Fire Hydrant	⊗
Blowoff Hydrant	⊗
Yard Hydrant	⊗
Fire Depart. Connection (FDC)	⊗
Cap	□
Plug	□
Backflow Preventor	⊗
Butterfly Valve	⊗
Fittings	⊗
Water Line	—W—
Service Lateral	—

Sanitary Sewer Legend	
	Proposed
Sanitary Sewer Manhole	⊗ MH: A1
Sanitary Sewer Cleanout	● CO
Sanitary Sewer Wye	⊗
Check Valve in Manhole	⊗
Plug Valve	⊗
Air Release Valve	⊗
Sewer Line	—S—
Force Main	—F—
Reuse Main	—R—
Service Lateral	—

WARD EDWARDS, INC. No. 22816

WARD EDWARDS, INC. No. C00152

No.	Description	Date
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Town of Bluffton, South Carolina

Prepared for
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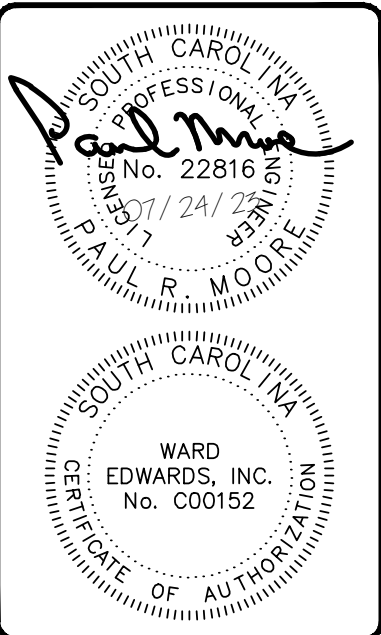
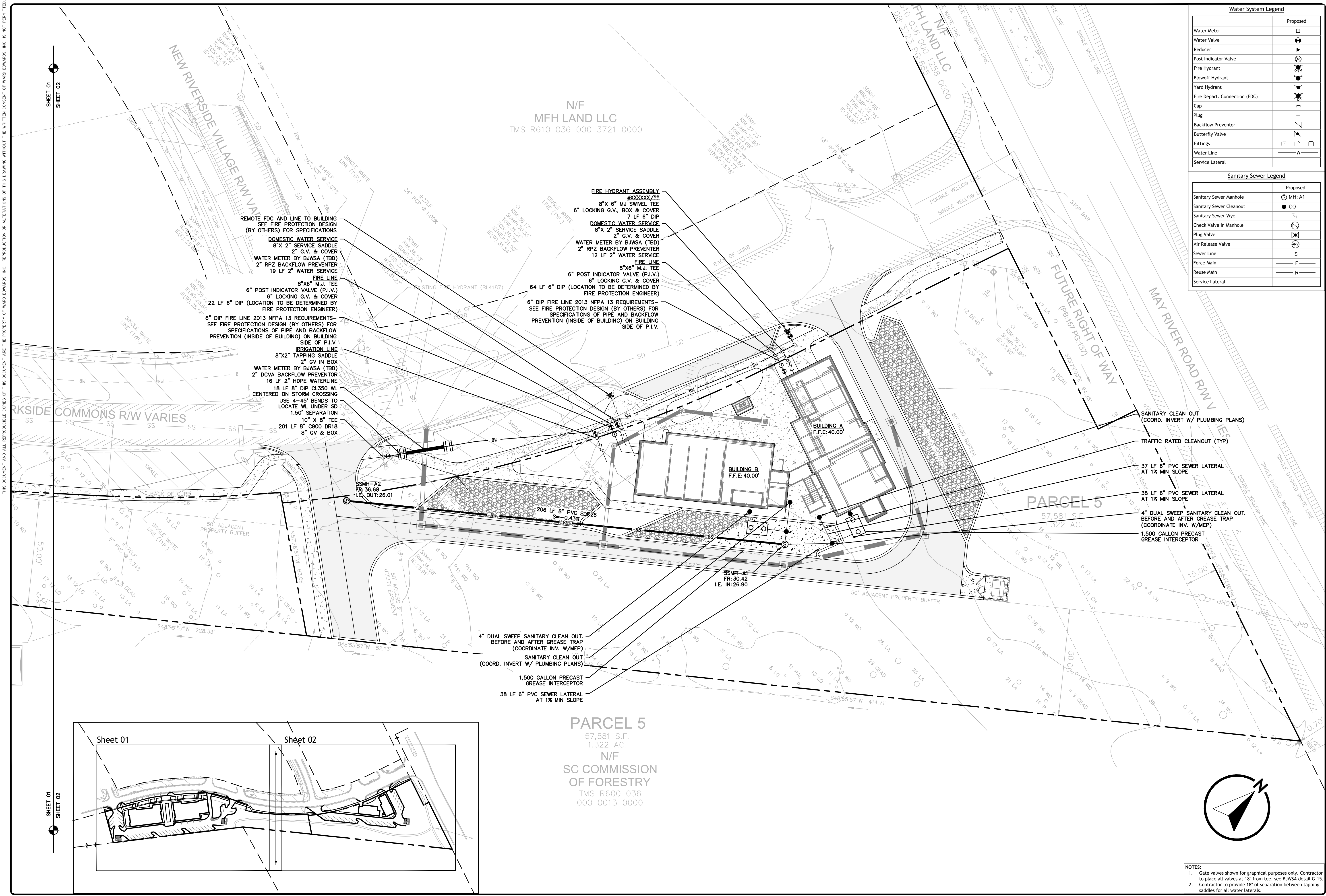
Utility Plan

Vert. Datum:	NAVD88
Horiz. Datum:	SC83IF
Surveyed by:	JWR
Surveyor's PLS:	28139
Project #:	220145
Date:	07/24/23
Designed by:	ASH
Checked by:	PRM

Scale: 1" = 20' Feet

C701

NOTES:
1. Gate valves shown for graphical purposes only. Contractor to place all valves at 18" from tee. see BJWSA detail G-15.
2. Contractor to provide 18" of separation between tapping saddles for all water laterals.



No.	Description	Plan Revisions	Date
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Utility Plan

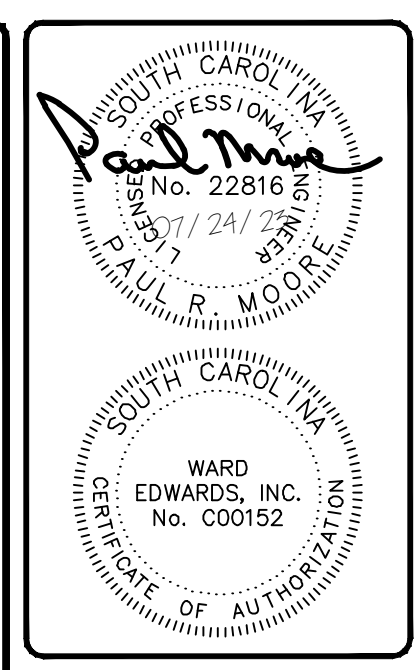
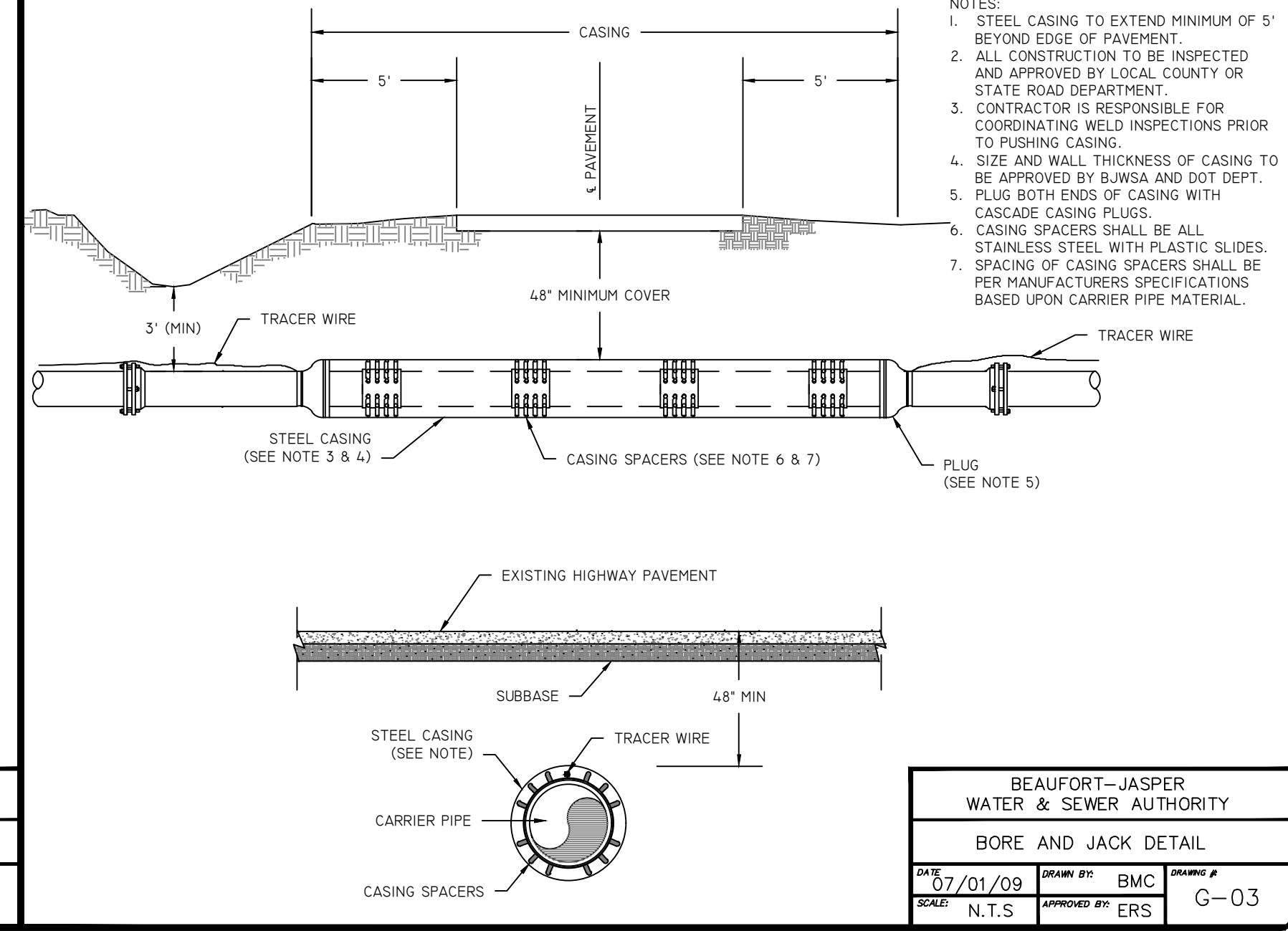
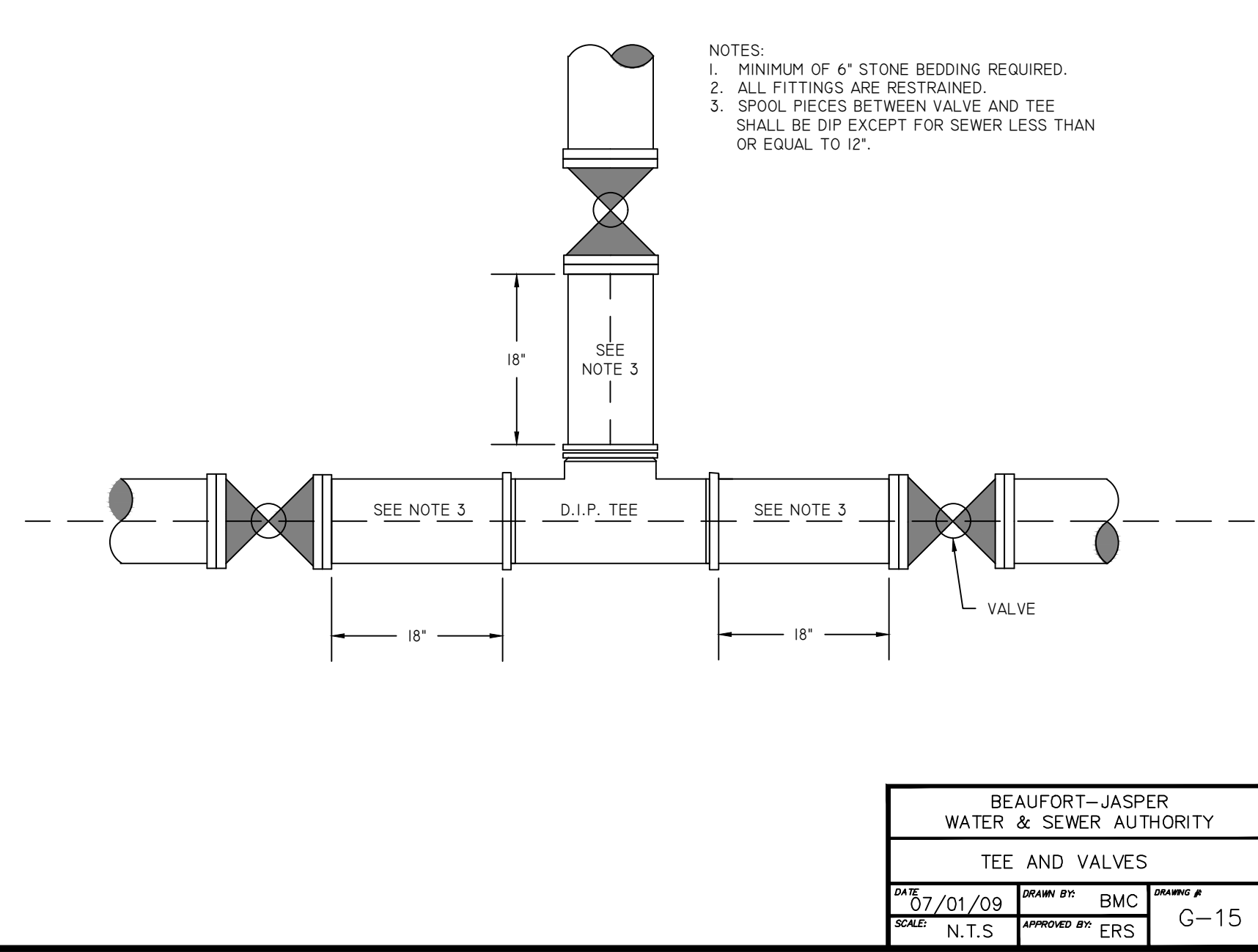
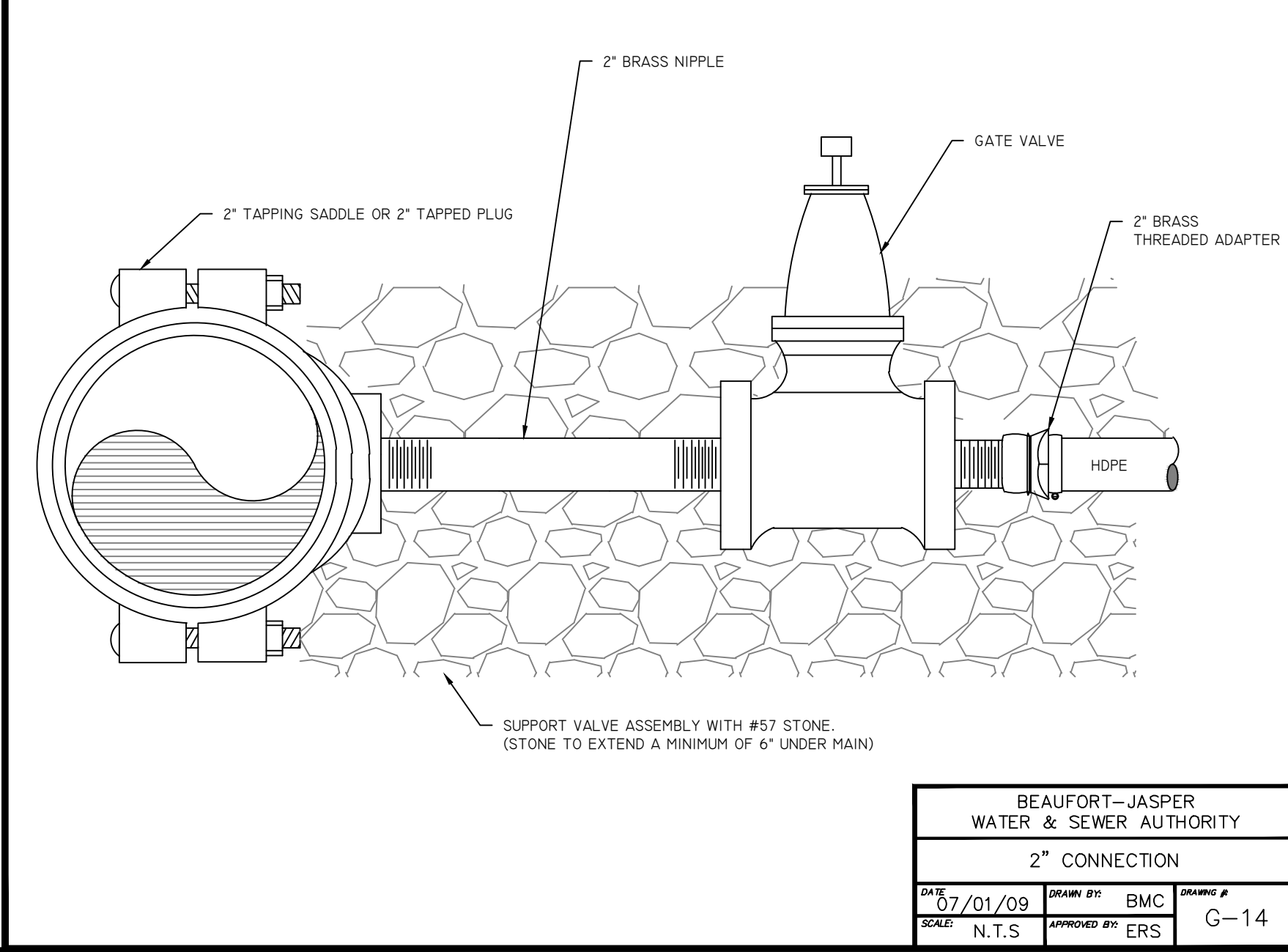
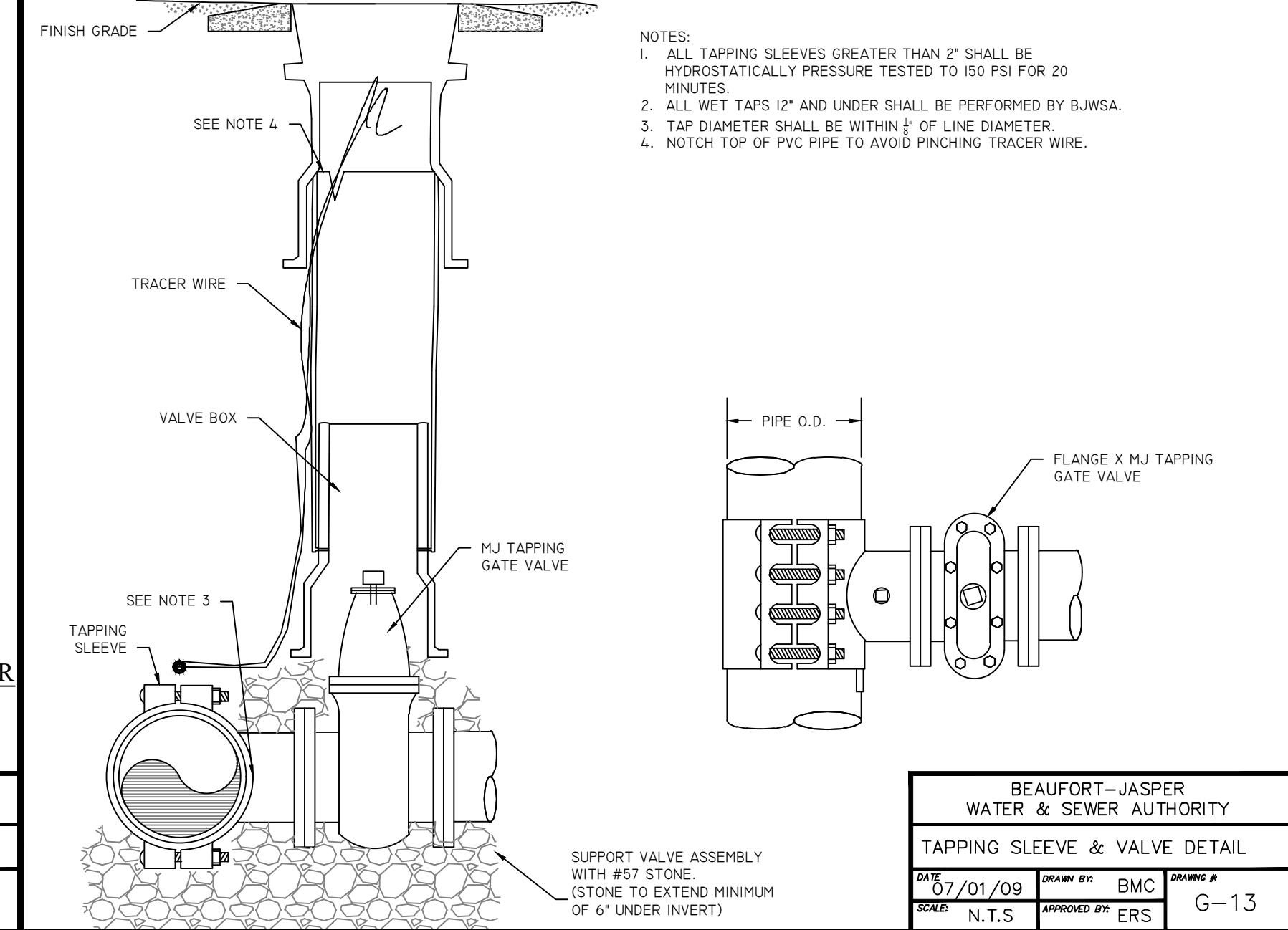
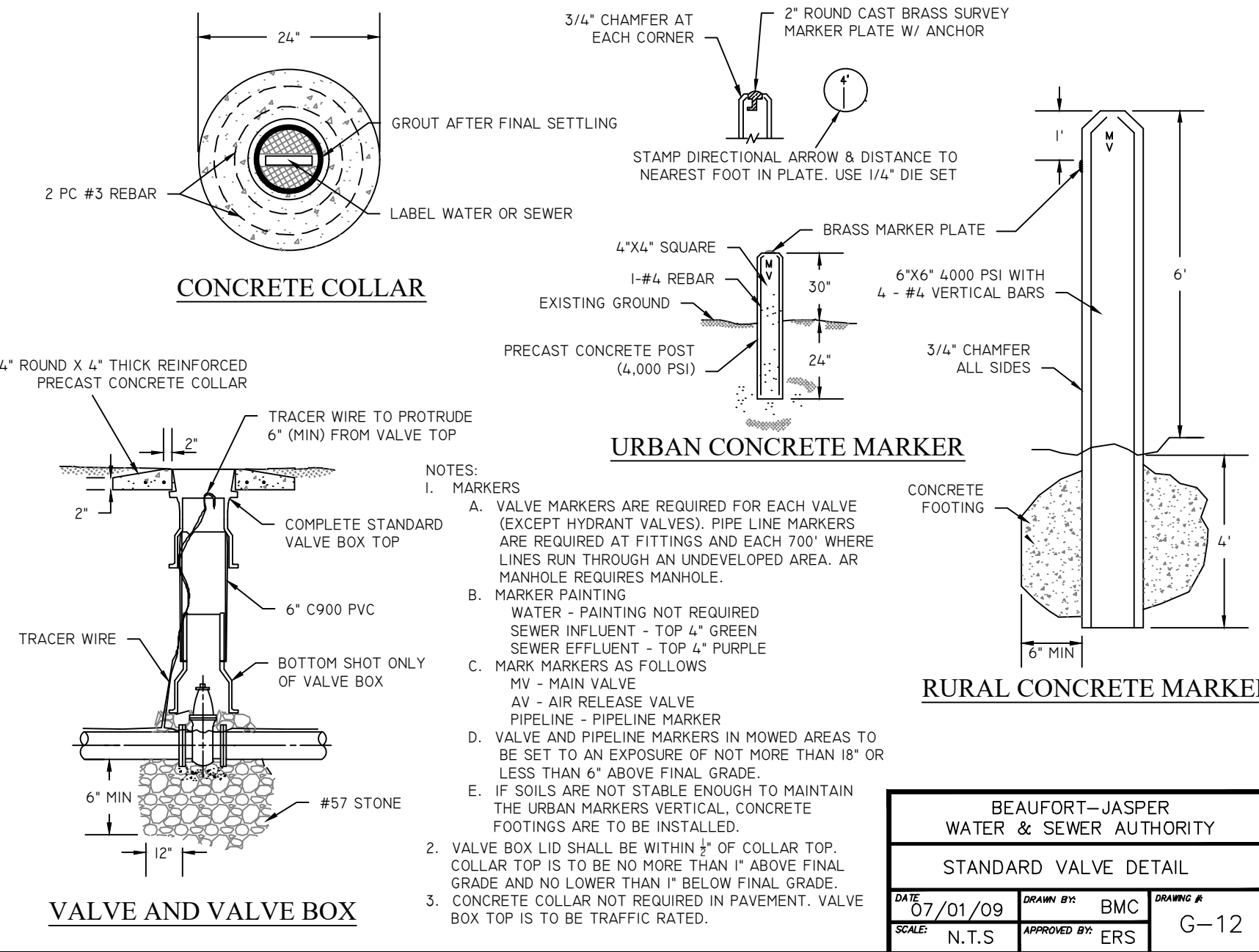
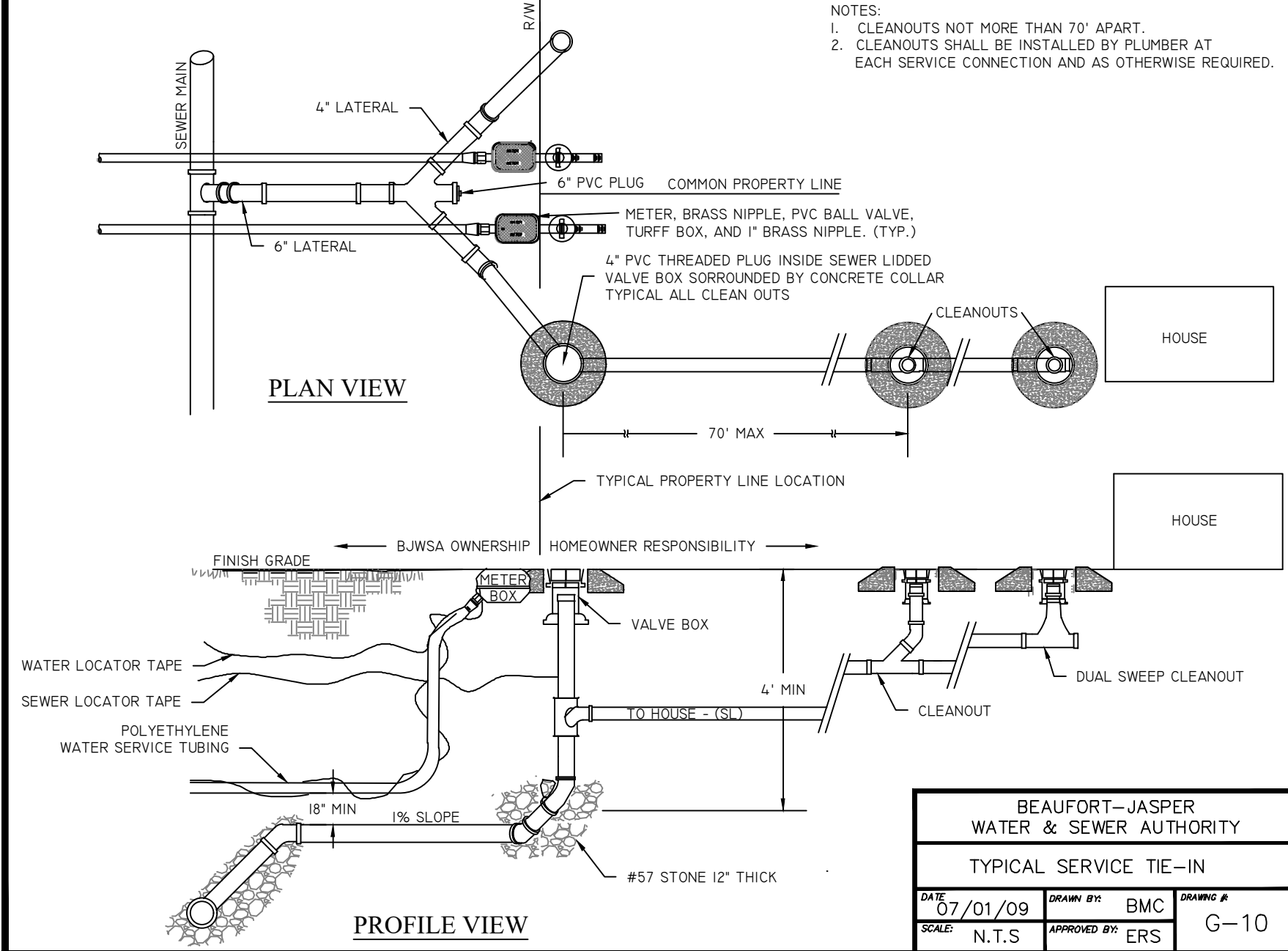
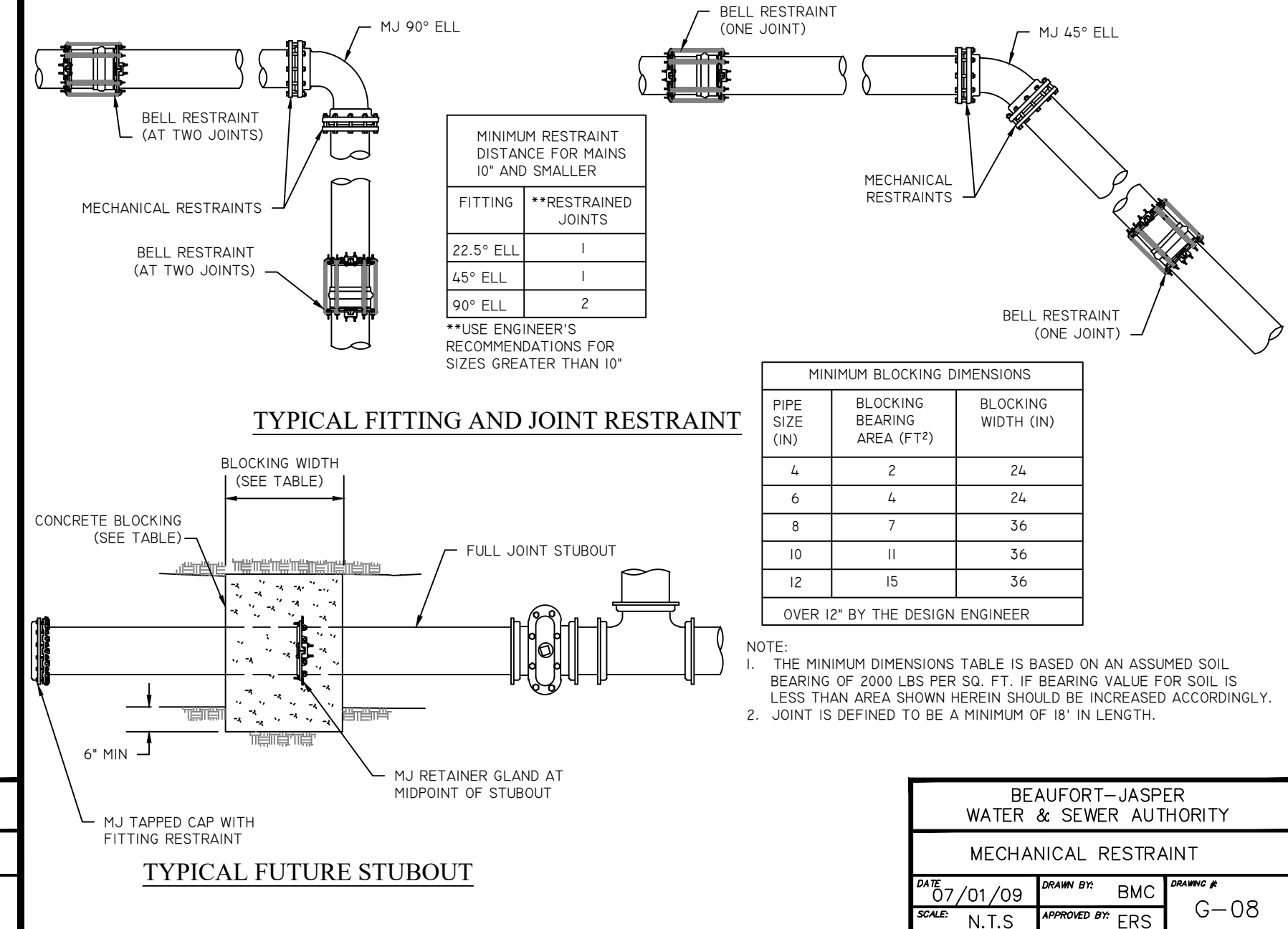
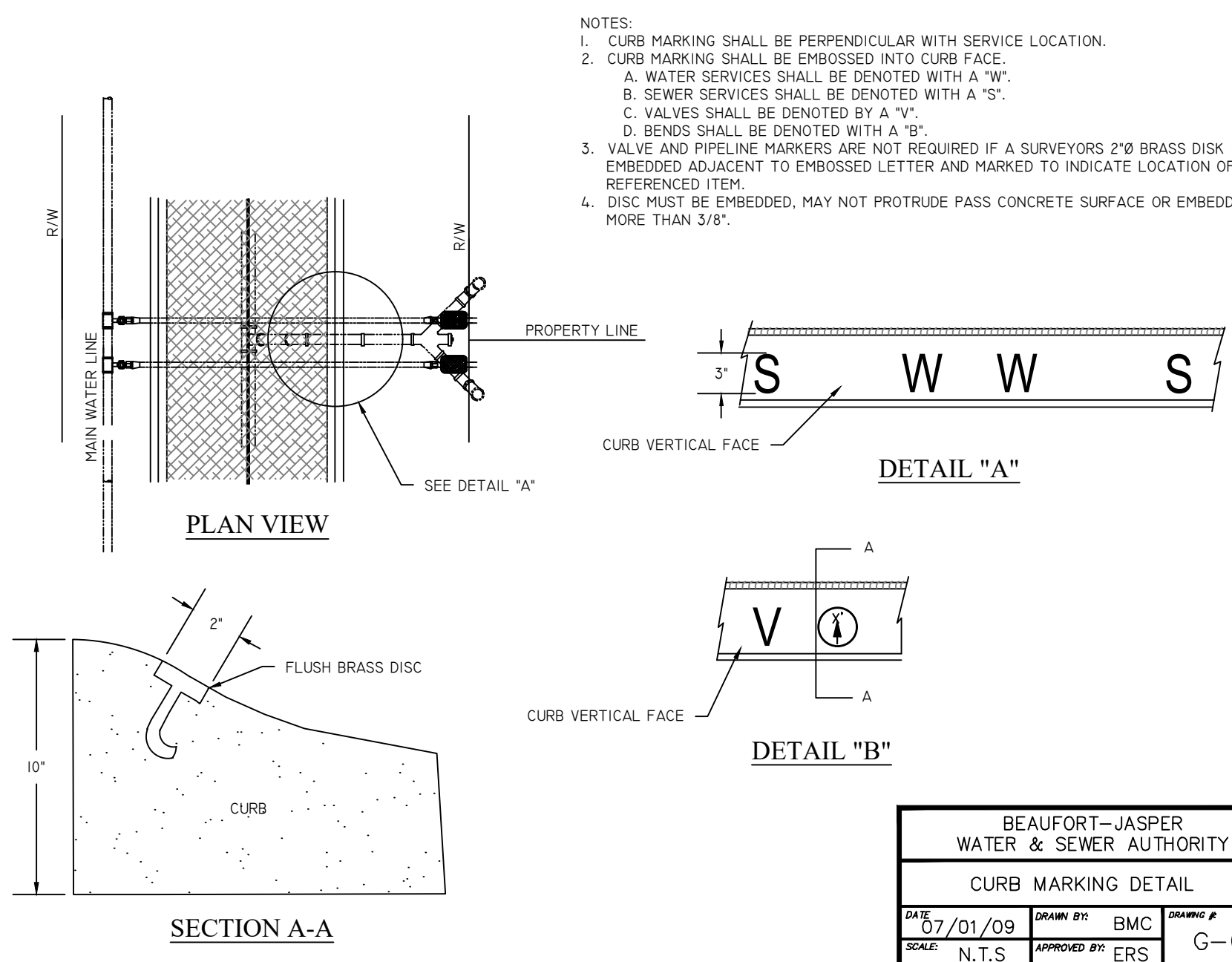
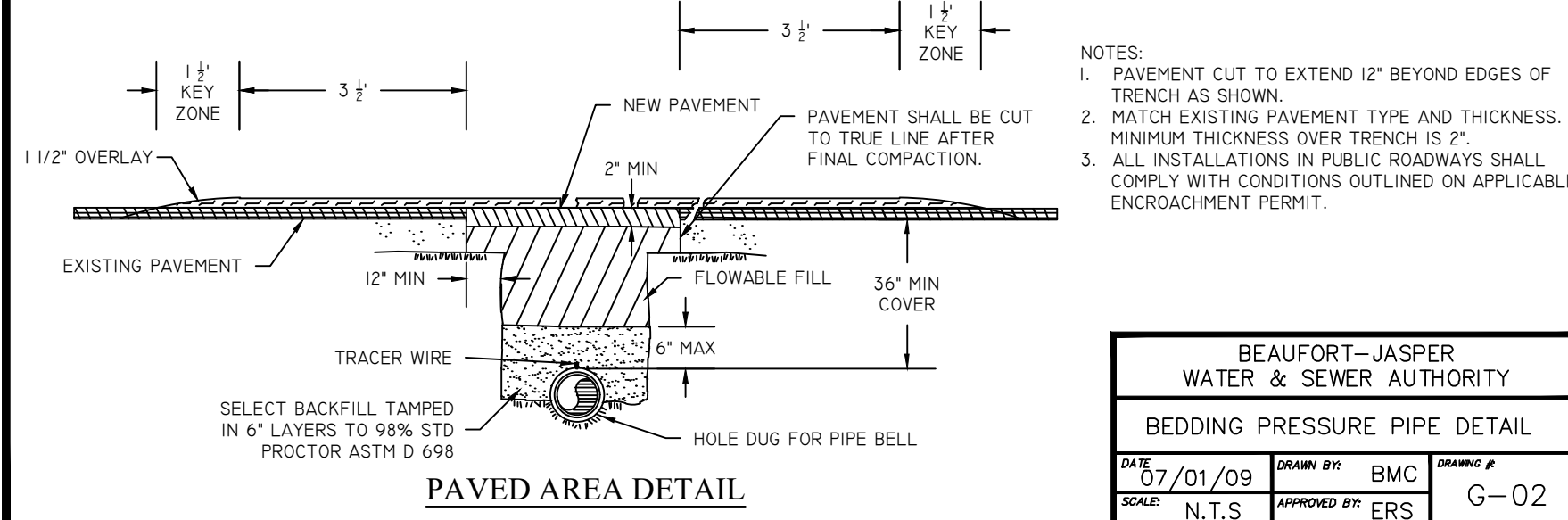
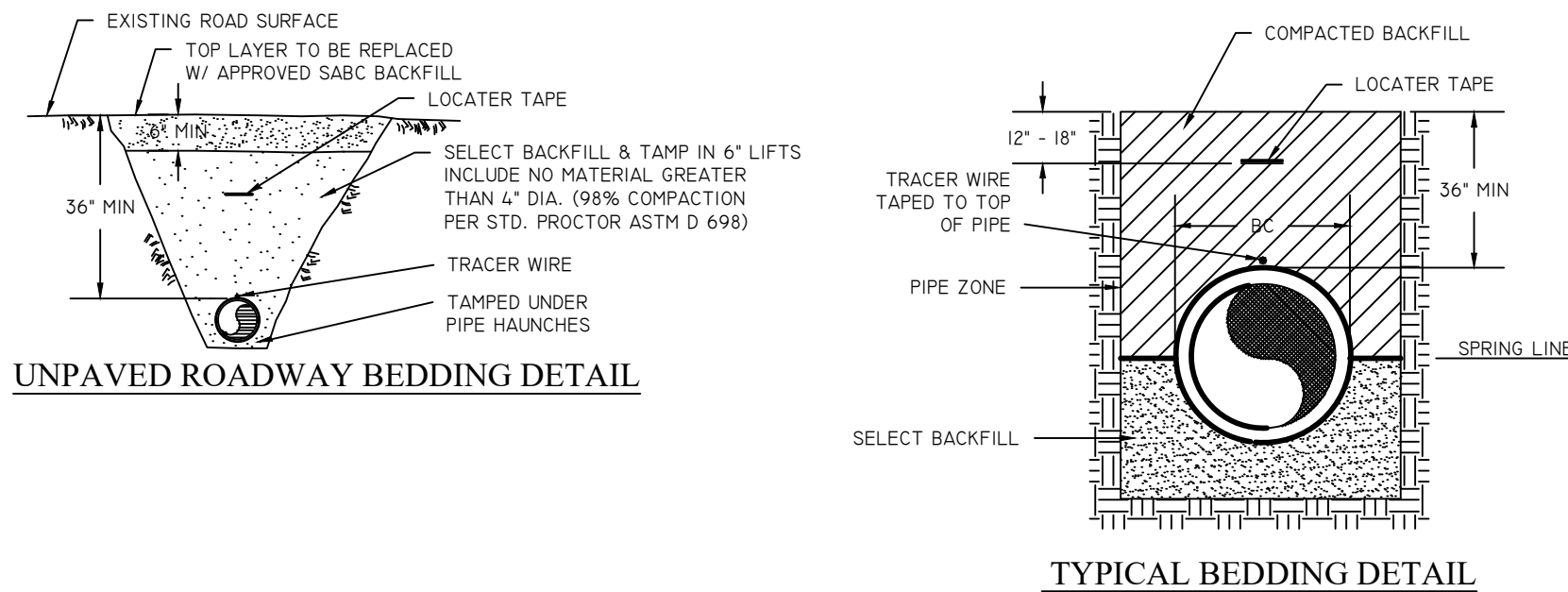
Vert. Datum: NAVD88
Horiz. Datum: SC83IF
Surveyed by: JWR
Surveyor's PLS: 28139

Project #: 220145
Date: 07/24/23
Designed by: ASH
Checked by: PRM

Scale: 1" = 20' Feet

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No.	Description	Date
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New Riverside Village Commercial

Town of Bluffton, South Carolina

Prepared for
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Utility Details

Vert. Datum: NAVD88
Horiz. Datum: SC83IF
Surveyed by: JWR
Surveyor's PLS: 28139

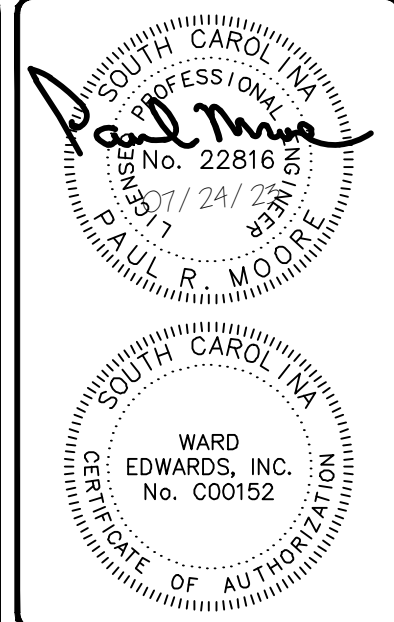
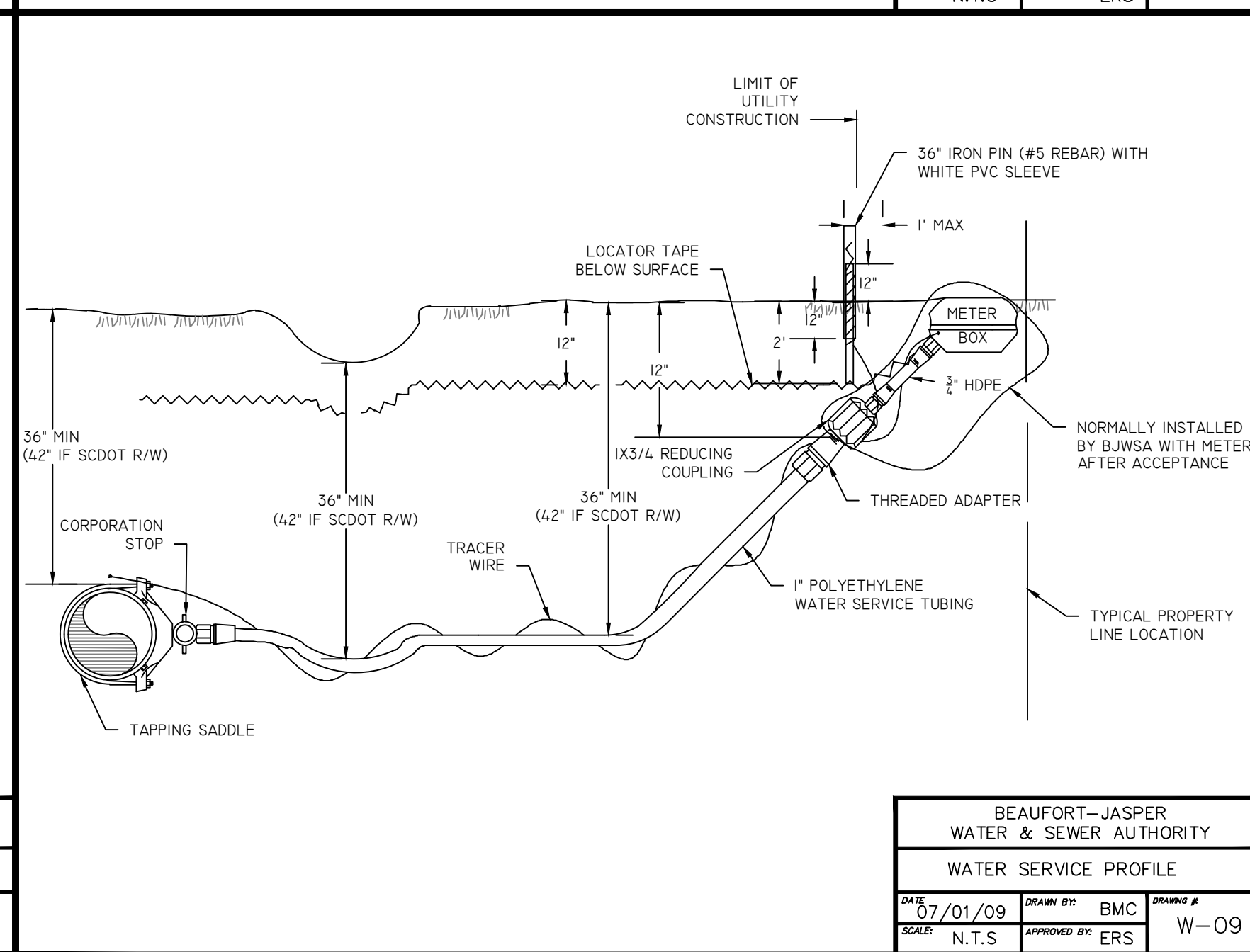
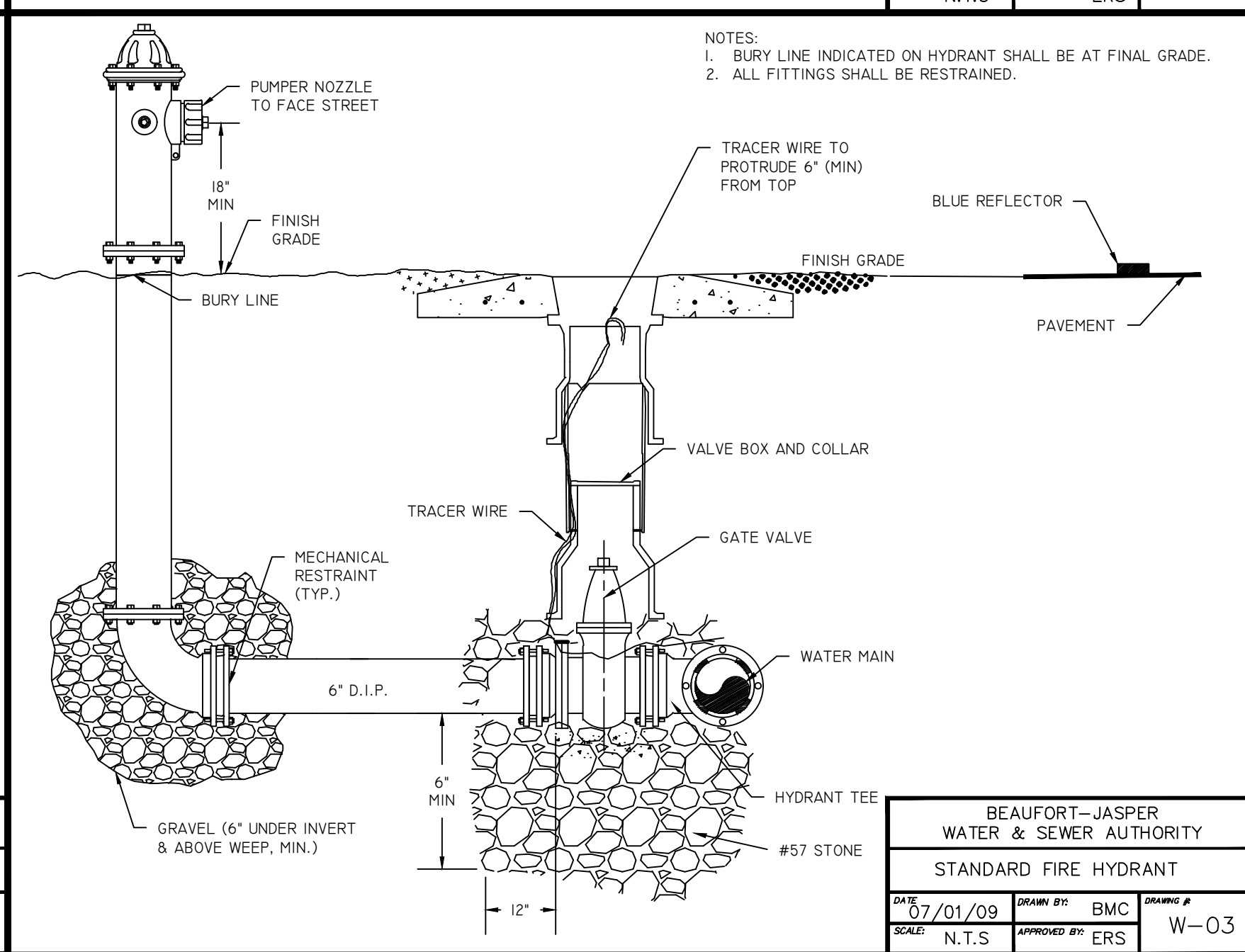
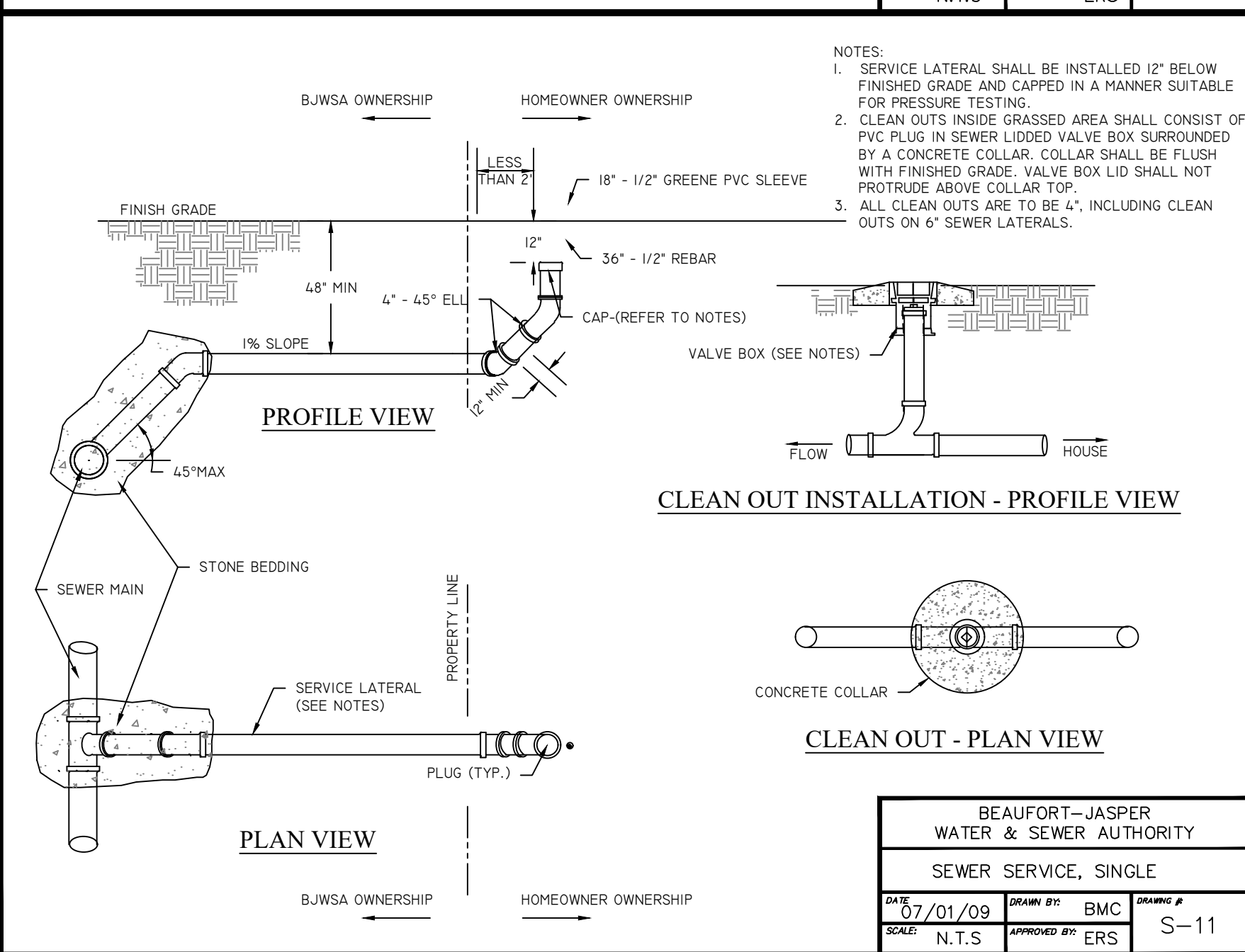
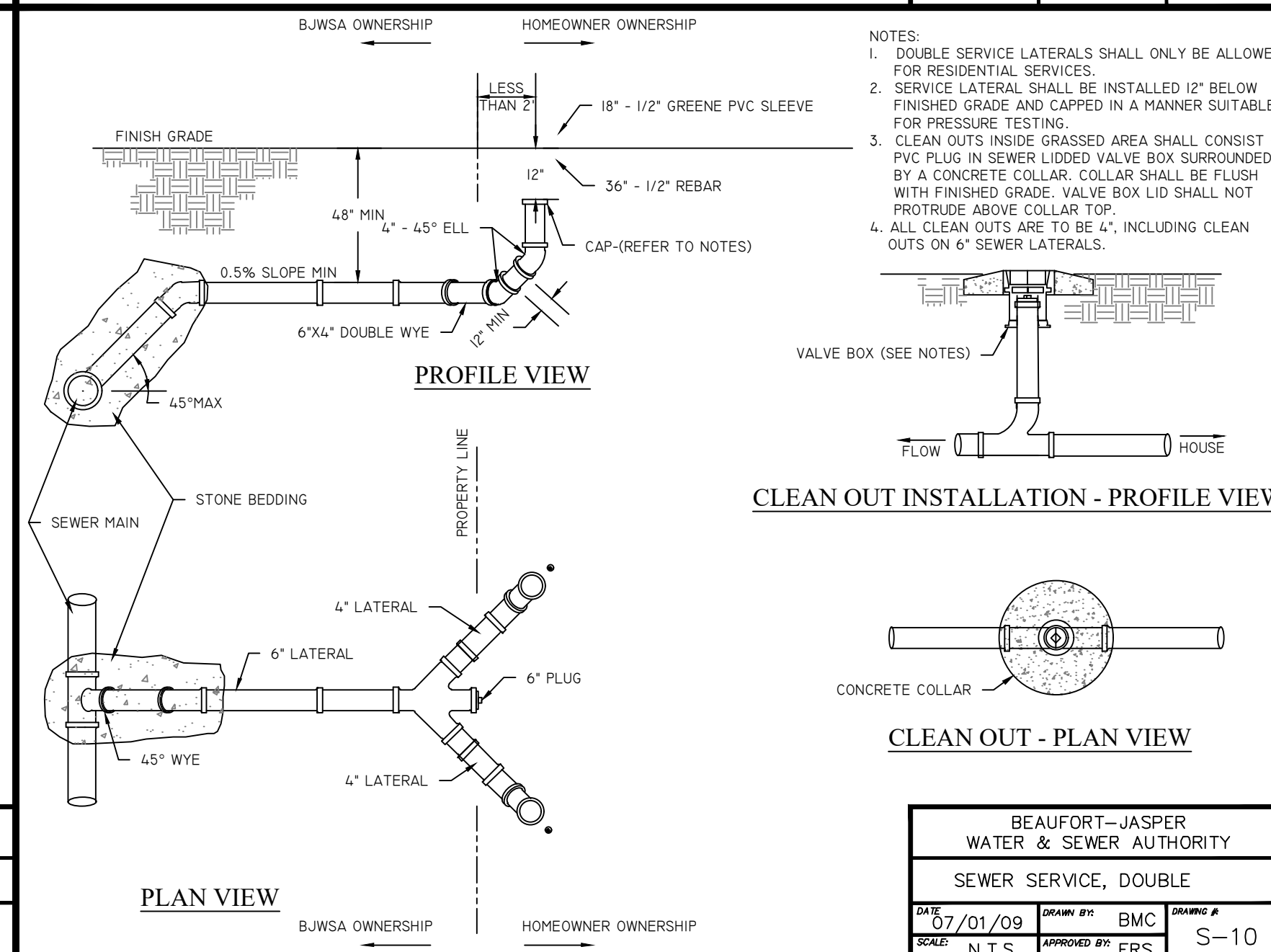
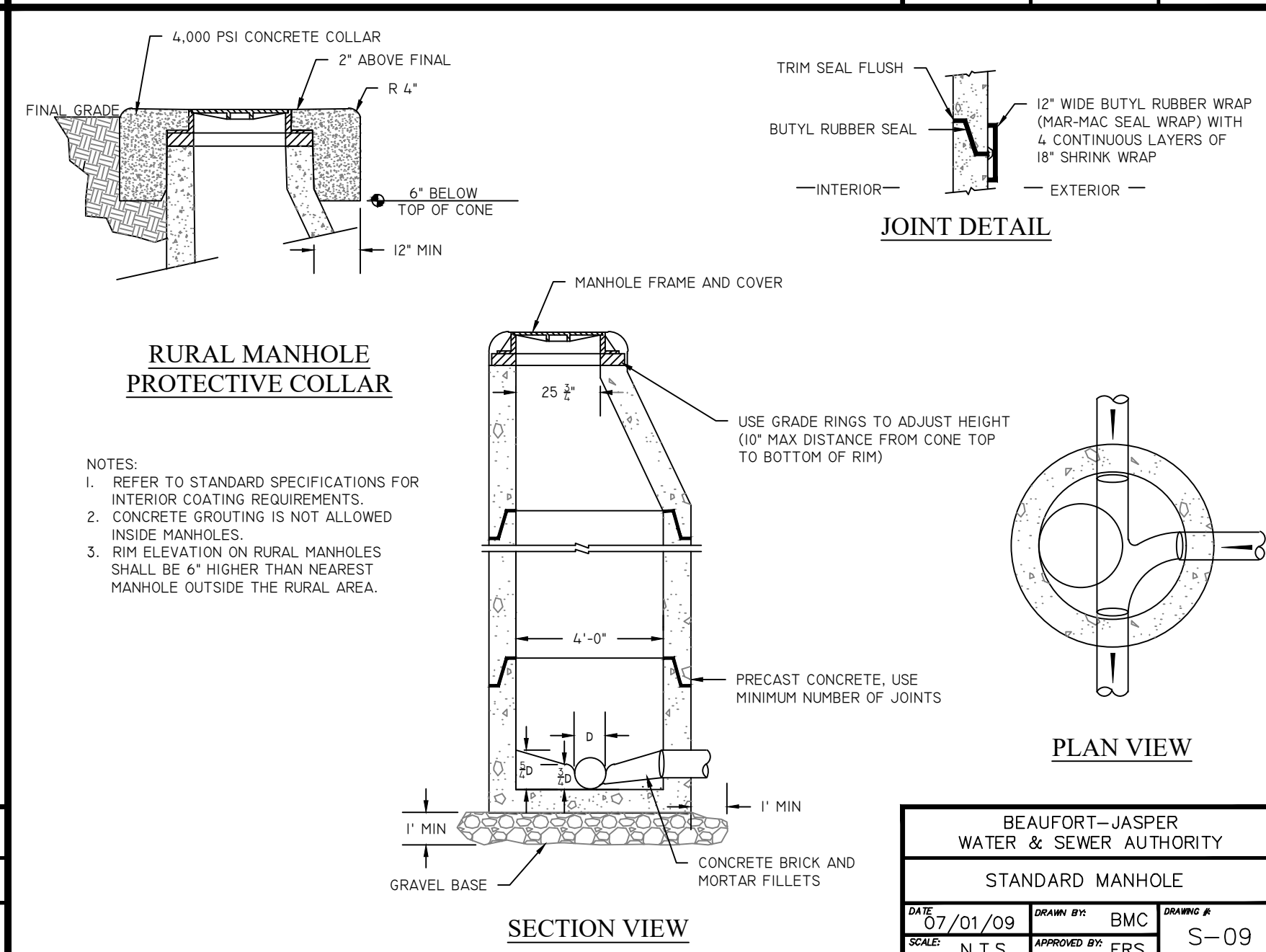
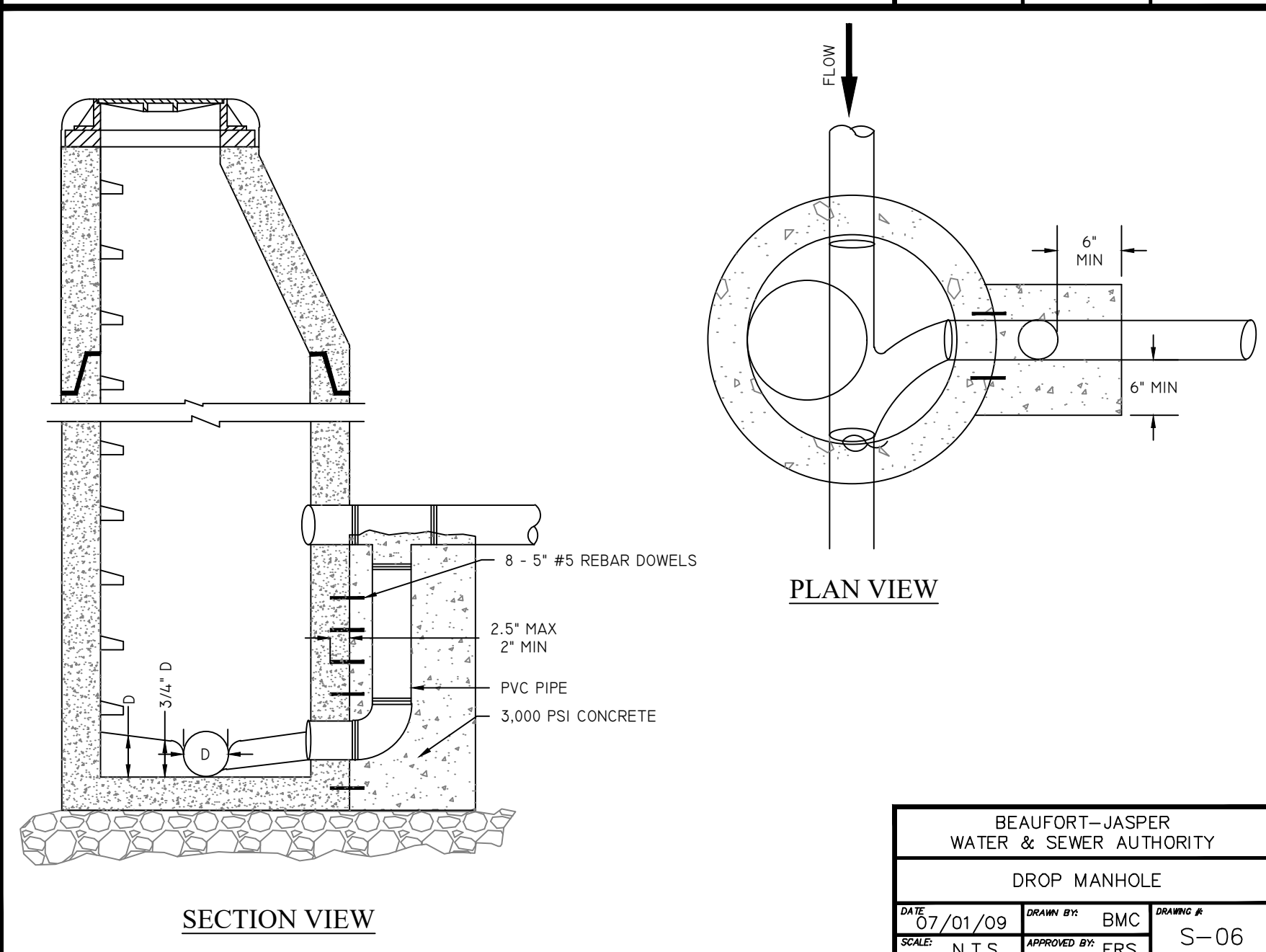
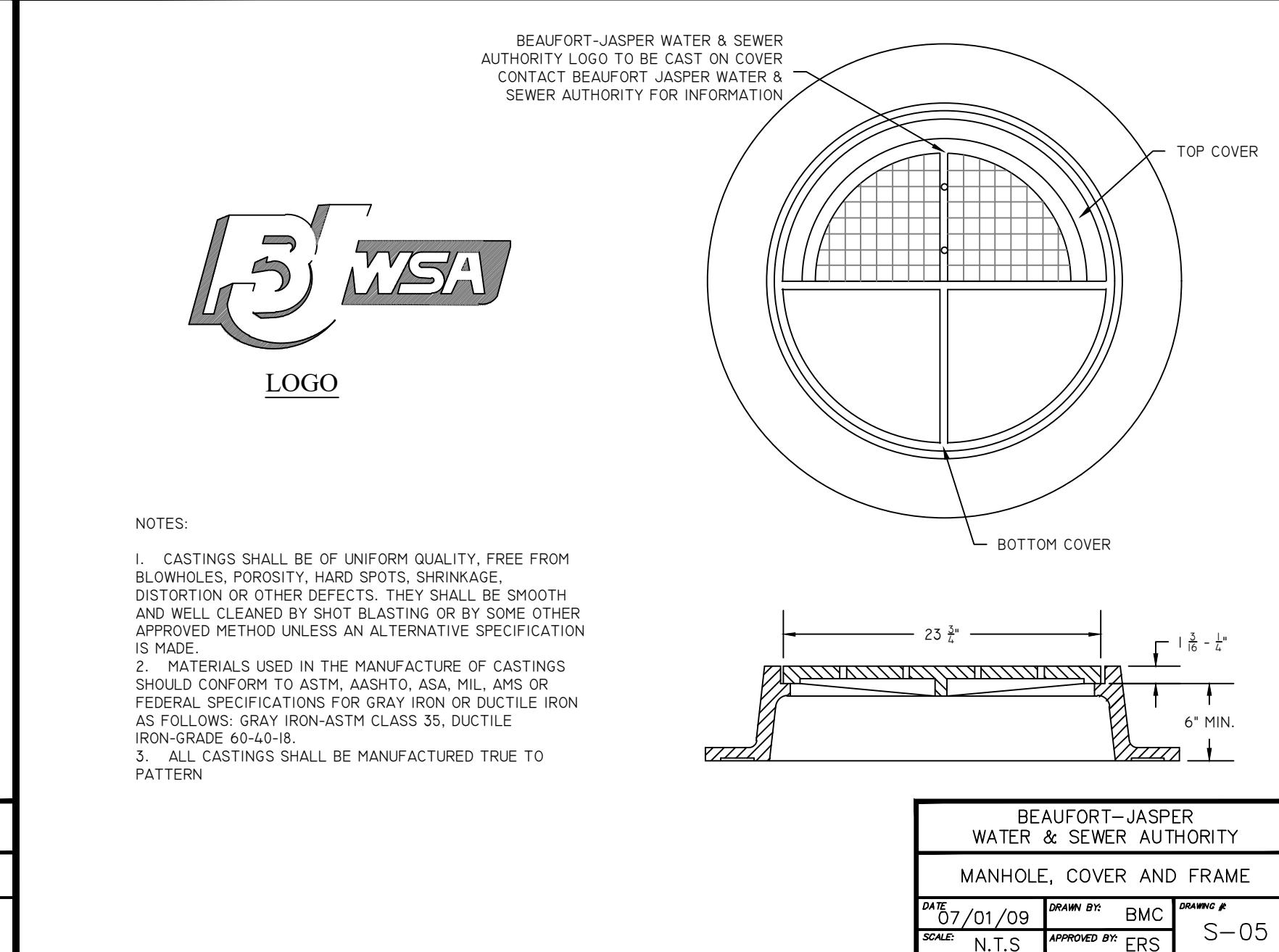
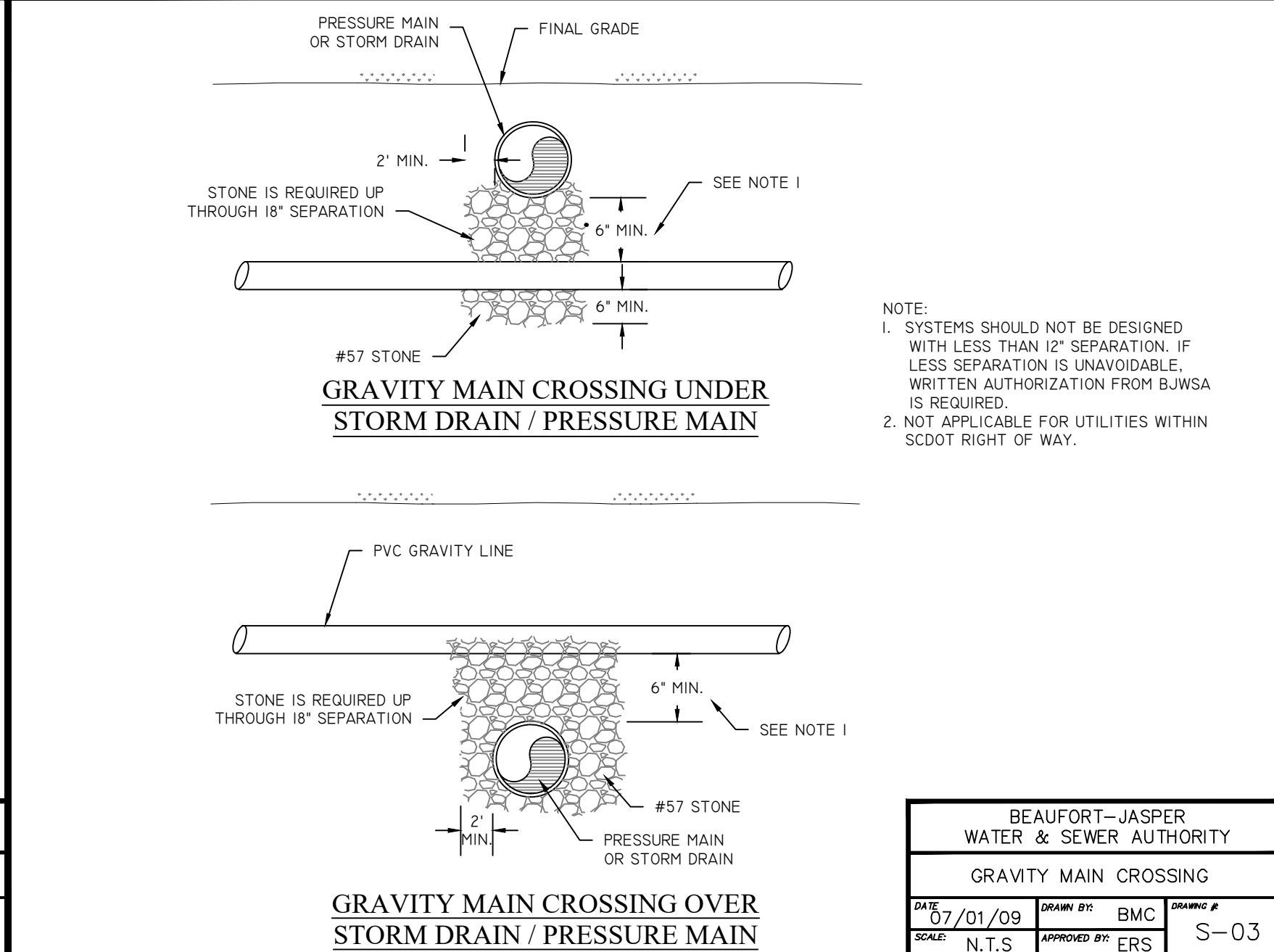
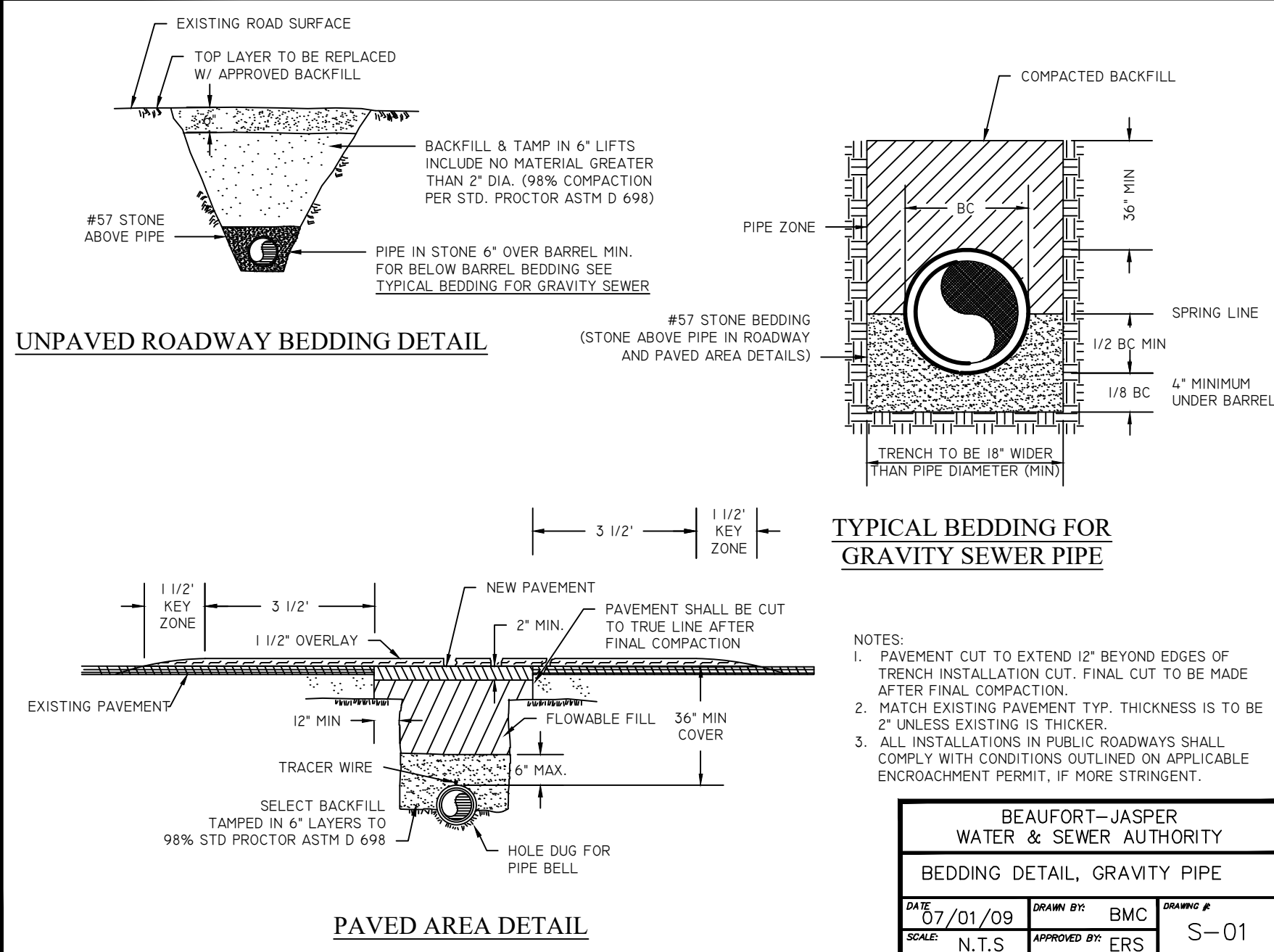
Project #: 220145
Date: 07/24/23
Designed by: ASH
Checked by: PRM

Not to Scale

C703

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New Riverside Village Commercial
Town of Bluffton, South Carolina

Prepared for
Architecture 101


















Utility Details








Vert. Datum:	NAVD88
Horiz. Datum:	SC83IF
Surveyed by:	JWR
Surveyor's PLS:	28139
Project #:	220145
Date:	07/24/23
Designed by:	ASH
Checked by:	PRM

Not to Scale

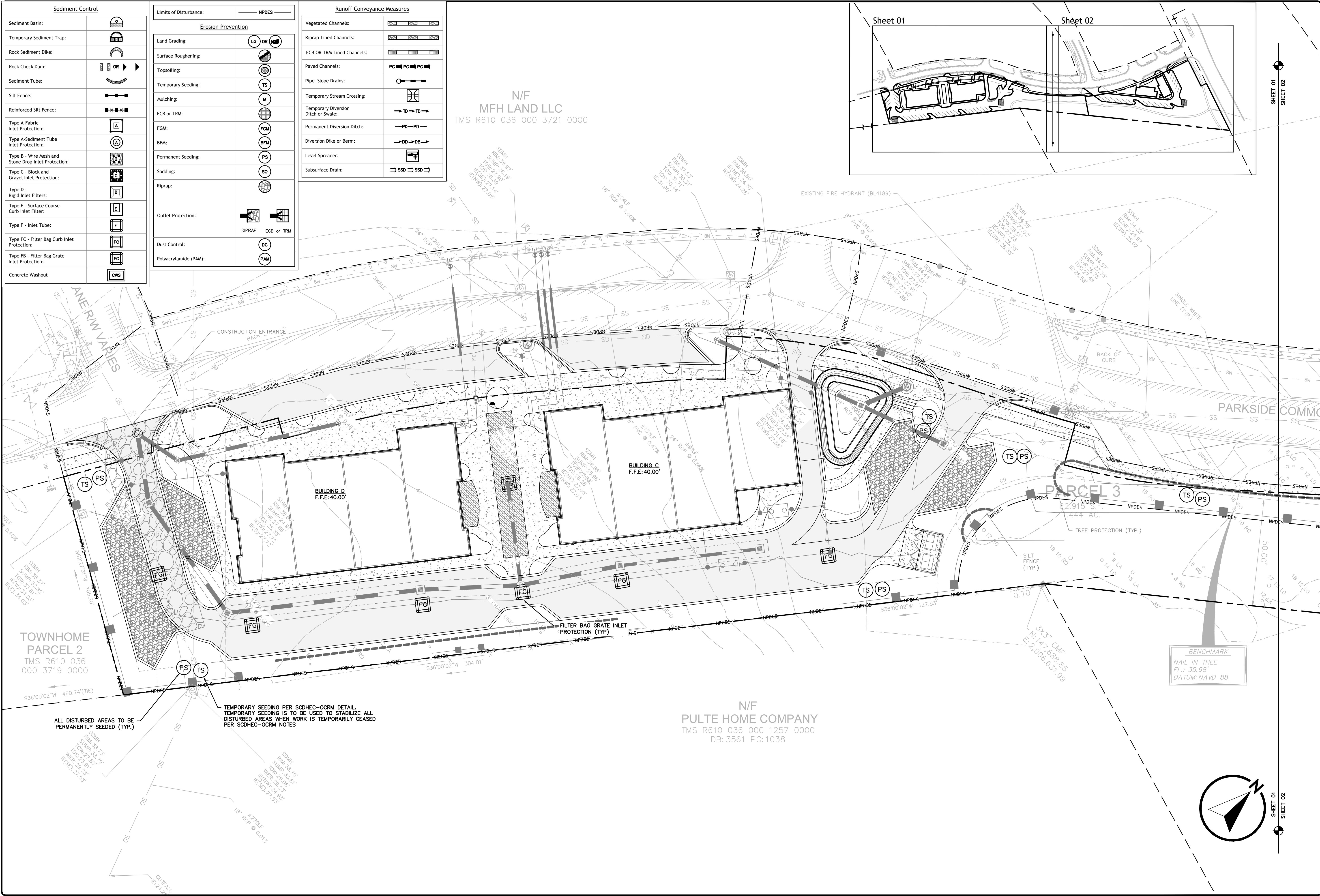
C704

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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	

Limits of Disturbance: _____		NPDES _____	
<u>Erosion Prevention</u>			
Land Grading:		LG	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	

Runoff Conveyance Measures	
Vegetated Channels:	
Riprap-Lined Channels:	
ECB or TRM-Lined Channels:	
Paved Channels:	
Pipe Slope Drains:	
Temporary Stream Crossing:	
Temporary Diversion Ditch or Swale:	
Permanent Diversion Ditch:	
Diversion Dike or Berm:	
Level Spreader:	
Subsurface Drain:	



No.	Description	Date
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ENGINEERING

119C Palmetto Way
P.O. Box 381, Bluffton,
South Carolina 29910
(843) 837-5250
www.WardEdwards.com

New Riverside Village Commercial

Town of Bluffton, South Carolina

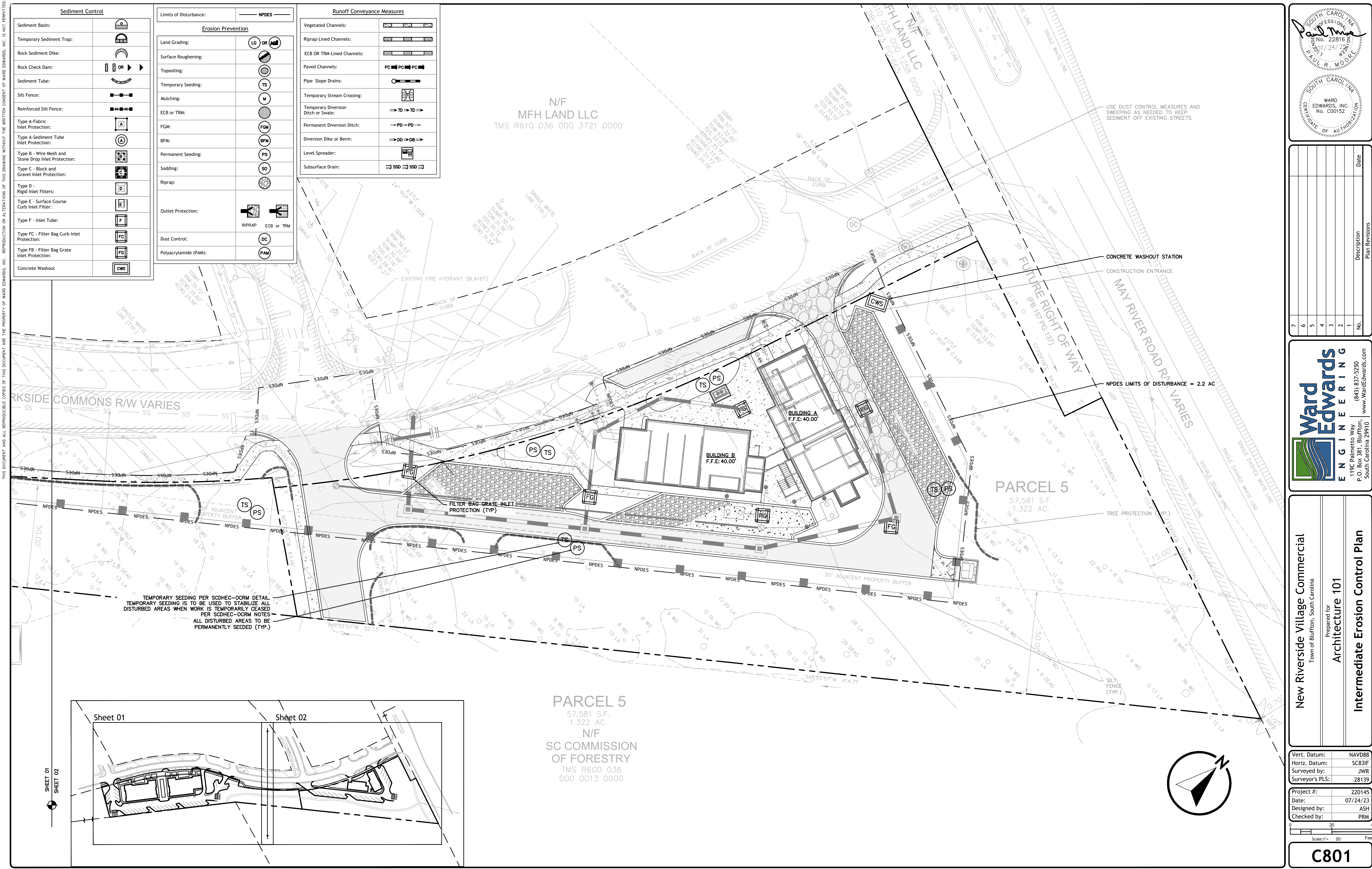
Prepared for
Architecture 101

Intermediate Erosion Control Plan

Vert. Datum:	NAVD88
Horiz. Datum:	SC83IF
Surveyed by:	JWR
Surveyor's PLS:	28139

Project #:	220145
Date:	07/24/23
Designed by:	ASH
Checked by:	PRM

C801



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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												

TS TEMPORARY SEEDING - COASTAL

DETAIL 02370-011

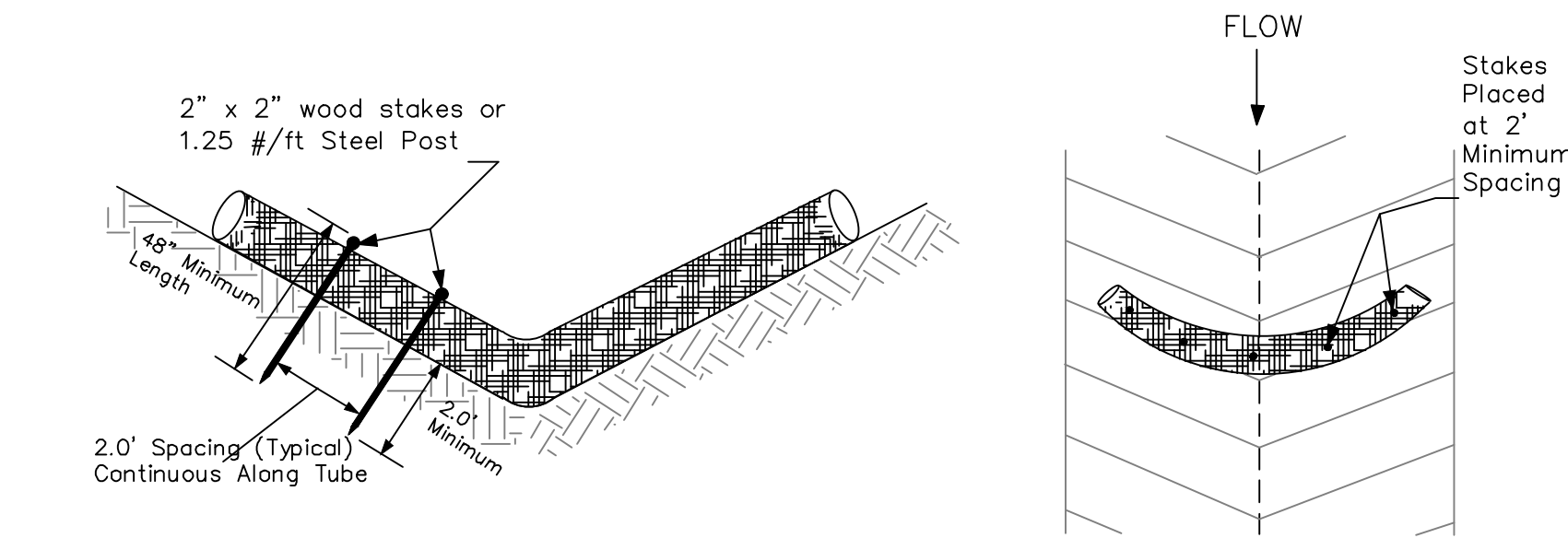
PERMANENT SEEDING – COASTAL

SPECIES	LBS/AC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SANDY, DROUGHTY SITES													
BROWNTOP MILLET BAHIA GRASS	10 LBS/AC 40 LBS/AC												
BROWNTOP MILLET BAHIA GRASS SERICEA LESPEDEZA	10 LBS/AC 30 LBS/AC 40 LBS/AC												
BROWNTOP MILLET ATLANTIC COASTAL PANIC GRASS	10 LBS/AC 15 LBS/AC PLS												
BROWNTOP MILLET SWITCH GRASS (ALAMO)	10 LBS/AC 8 LBS/AC PLS												
LITTLE BLUESTEM SERICEA LESPEDEZA	4 LBS/AC 20 LBS/AC												
BROWNTOP MILLET WEEPING LOVEGRASS	10 LBS/AC 8 LBS/AC												
WELL DRAINED, CLAYEY/LOAMEY SITES													
BROWNTOP MILLET BAHIA GRASS	10 LBS/AC 40 LBS/AC												
RYE, GRAIN BAHIA GRASS CLOVER, CRIMSON (ANNUAL)	10 LBS/AC 40 LBS/AC 5 LBS/AC												
BROWNTOP MILLET BAHIA GRASS SERICEA LESPEDEZA	10 LBS/AC 30 LBS/AC 40 LBS/AC												
BROWNTOP MILLET BERMUDA, COMMON SERICEA LESPEDEZA	10 LBS/AC 10 LBS/AC 40 LBS/AC												
BROWNTOP MILLET BERMUDA, COMMON KOBE LESPEDEZA (ANNUAL)	10 LBS/AC 12 LBS/AC 10 LBS/AC												
BROWNTOP MILLET BAHIA GRASS BERMUDA, COMMON SERICEA LESPEDEZA	10 LBS/AC 20 LBS/AC 6 LBS/AC 40 LBS/AC												
BROWNTOP MILLET SWITCH GRASS LITTLE BLUESTEM INDIAN GRASS	10 LBS/AC 8 LBS/AC PLS 5 LBS/AC 3 LBS/AC PLS												

PS PERMANENT SEEDING - COASTAL

DETAIL 02370-010

SEDIMENT TUBE INSTALLATION



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

PLAN SYMBOL



South Carolina Department of Health and Environmental Control

SEDIMENT TUBES

STANDARD DRAWING NO. SC-05 PAGE 1 of 2

NOT TO SCALE

FEBRUARY 2014 DATE

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 event 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

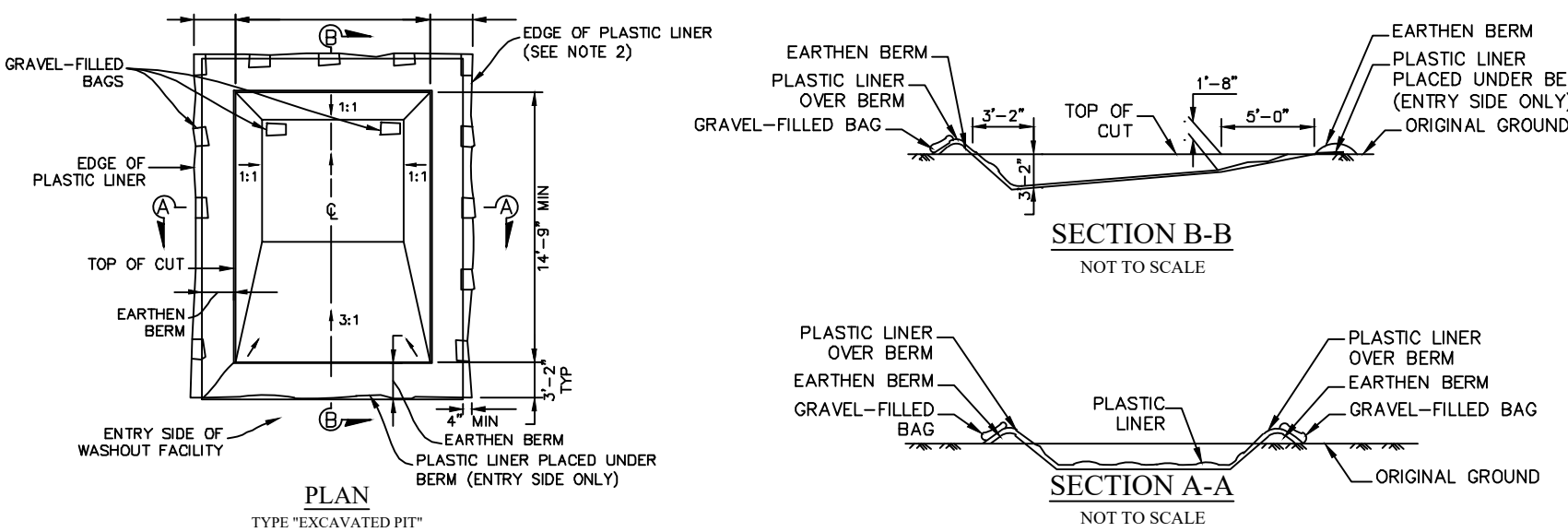
SEDIMENT TUBES

STANDARD DRAWING NO. SC-05 PAGE 2 of 2

GENERAL NOTES

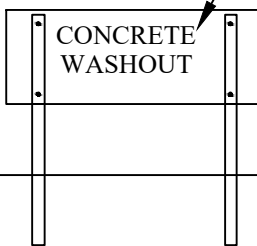
FEBRUARY 2014 DATE

EXCAVATED PIT CONCRETE WASHOUT



NOTES:

LETTERS A MINIMUM OF 5" IN HEIGHT



CONCRETE WASHOUT SIGN DETAIL

- ACTUAL LAYOUT DETERMINED IN FIELD.
- INSTALL CONCRETE WASHOUT SIGN (24"x24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
- TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
- CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
- THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
- SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
- A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

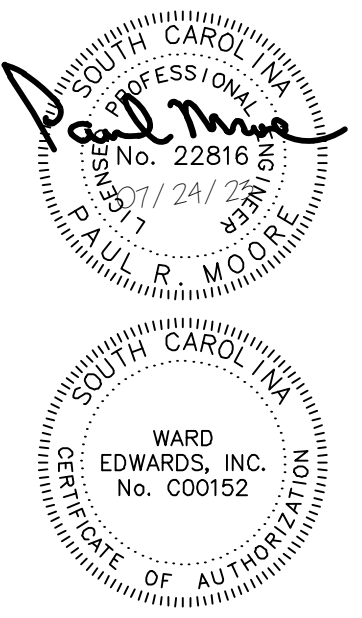
South Carolina Department of Health and Environmental Control

CONCRETE WASHOUT EXCAVATED PIT

STANDARD DRAWING NO. RC-08 PAGE 1 of 1

NOT TO SCALE

FEBRUARY 2014 DATE



No.	Description	Plan Revisions	Date
7			
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P.O. Box 381 Bluffton, South Carolina 29910

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Town of Bluffton, South Carolina

Prepared for
Architecture 101

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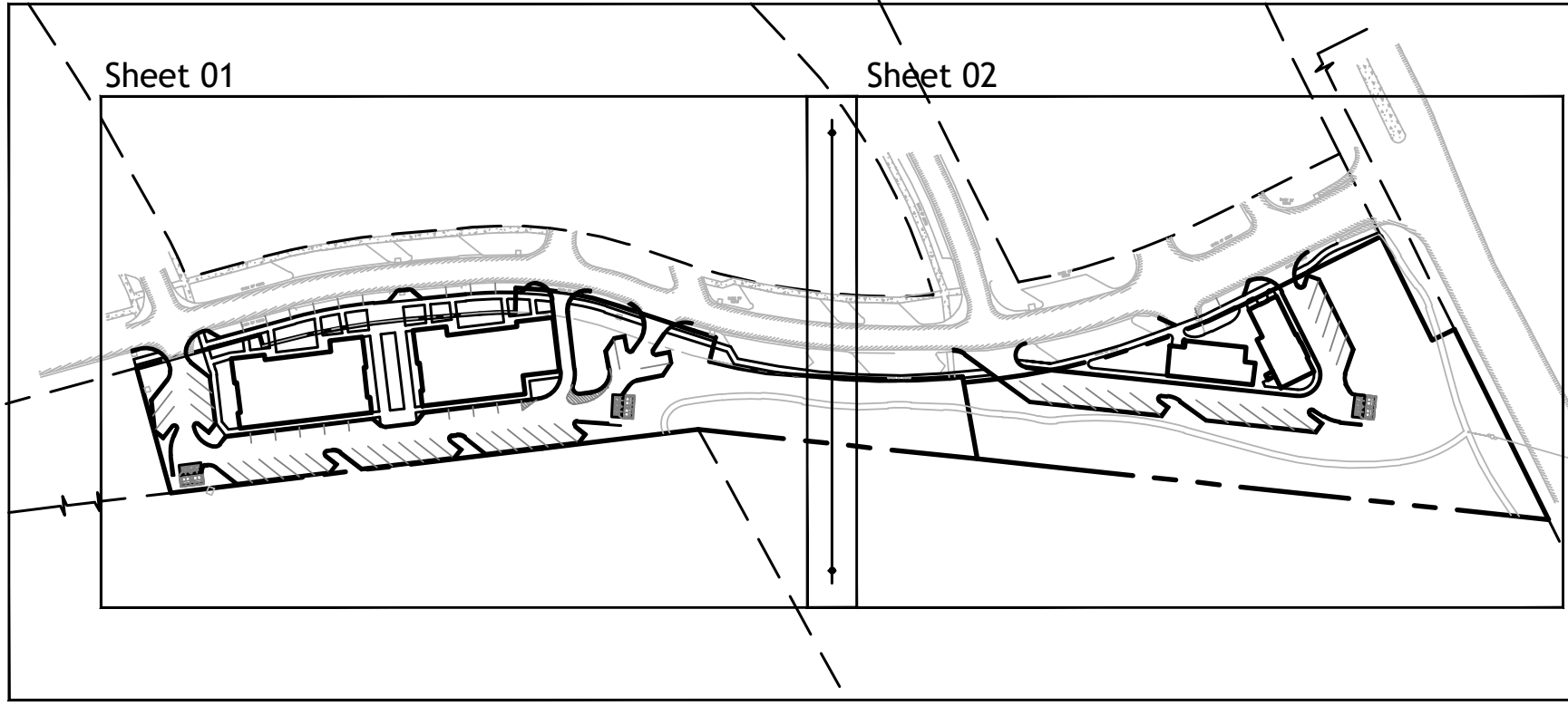
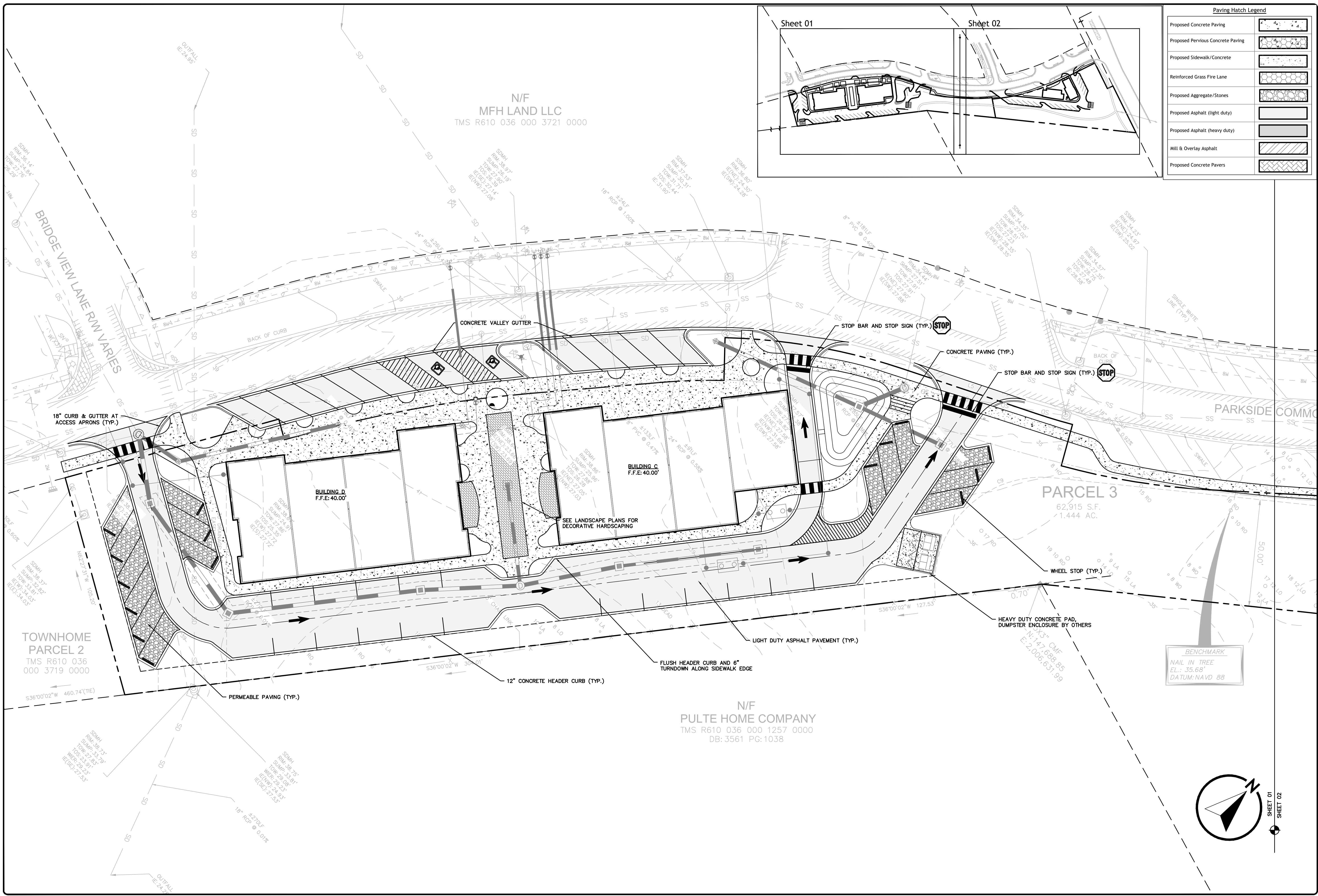
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Designed by:	ASH
Checked by:	PRM

Not to Scale

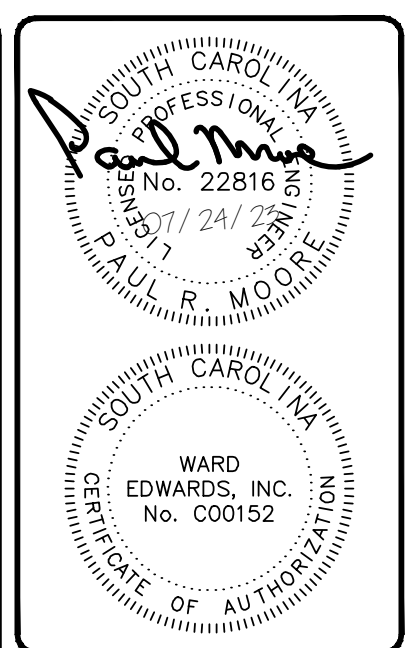
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Paving Hatch Legend	
Proposed Concrete Paving	
Proposed Pervious Concrete Paving	
Proposed Sidewalk/Concrete	
Reinforced Grass Fire Lane	
Proposed Aggregate/Stones	
Proposed Asphalt (light duty)	
Proposed Asphalt (heavy duty)	
Mill & Overlay Asphalt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



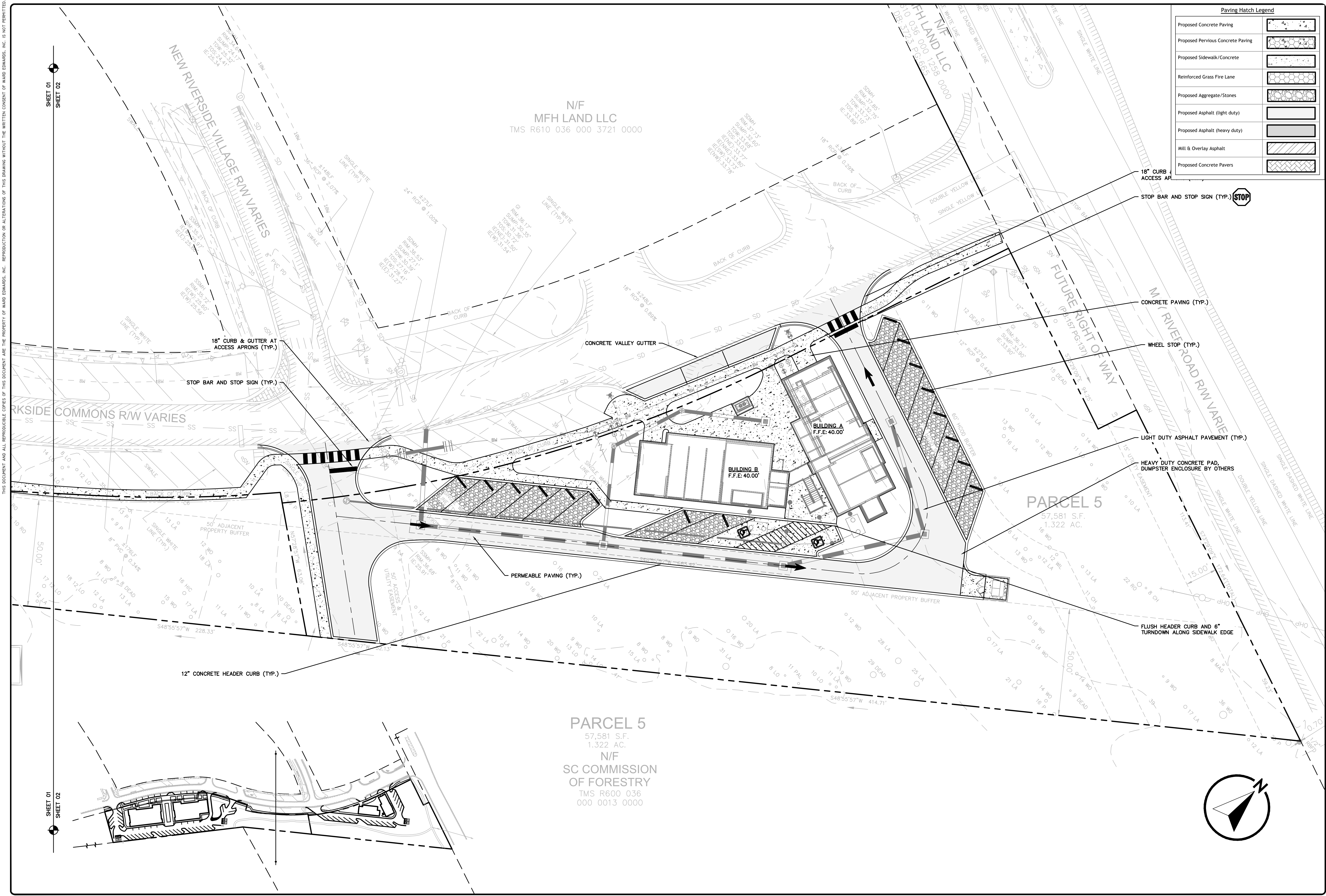
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P.O. Box 381 Bluffton
South Carolina 29910
(843) 837-5250
www.WardEdwards.com

New Riverside Village Commercial
Town of Bluffton, South Carolina
Prepared for
Architecture 101
Paving Plan

Vert. Datum: NAVD88
Horiz. Datum: SC83IF
Surveyed by: JWR
Surveyor's PLS: 28139
Project #: 220145
Date: 07/24/23
Designed by: ASH
Checked by: PRM
Scale: 1" = 20' Feet
C901

Permit Set - NOT FOR CONSTRUCTION



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	

WARD
EDWARDS, INC.
No. 000152

WARD
EDWARDS, INC.
No. 000152

No.	Description	Date
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Ward Edwards
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110C Palmetto Way
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South Carolina 29910

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New Riverside Village Commercial
Town of Bluffton, South Carolina

Prepared for
Architecture 101

Paving Plan

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C902

C903

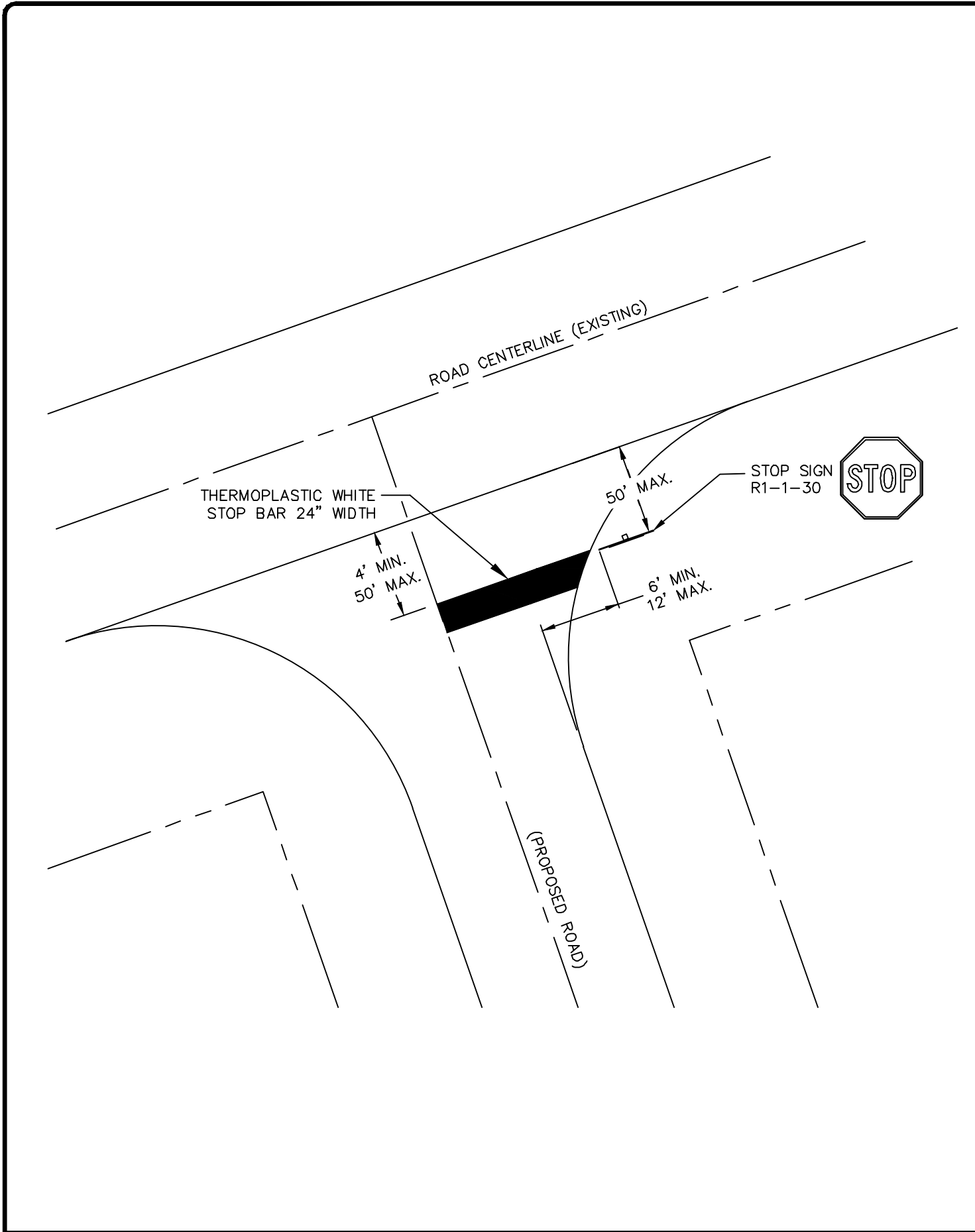


Diagram illustrating the typical stop sign and stop bar striping at an intersection. The diagram shows a road centerline (existing) and a proposed road. Key dimensions and components include:

- Thermoplastic White Stop Bar:** 24" width.
- Stop Sign:** R1-1-30, octagonal shape with the word "STOP".
- Dimensions:**
 - 4' MIN. to 50' MAX. (distance from stop bar to centerline).
 - 50' MAX. (distance from stop sign to centerline).
 - 6' MIN. to 12' MAX. (distance from stop sign to proposed road).
- Proposed Road:** Indicated by a dashed line.

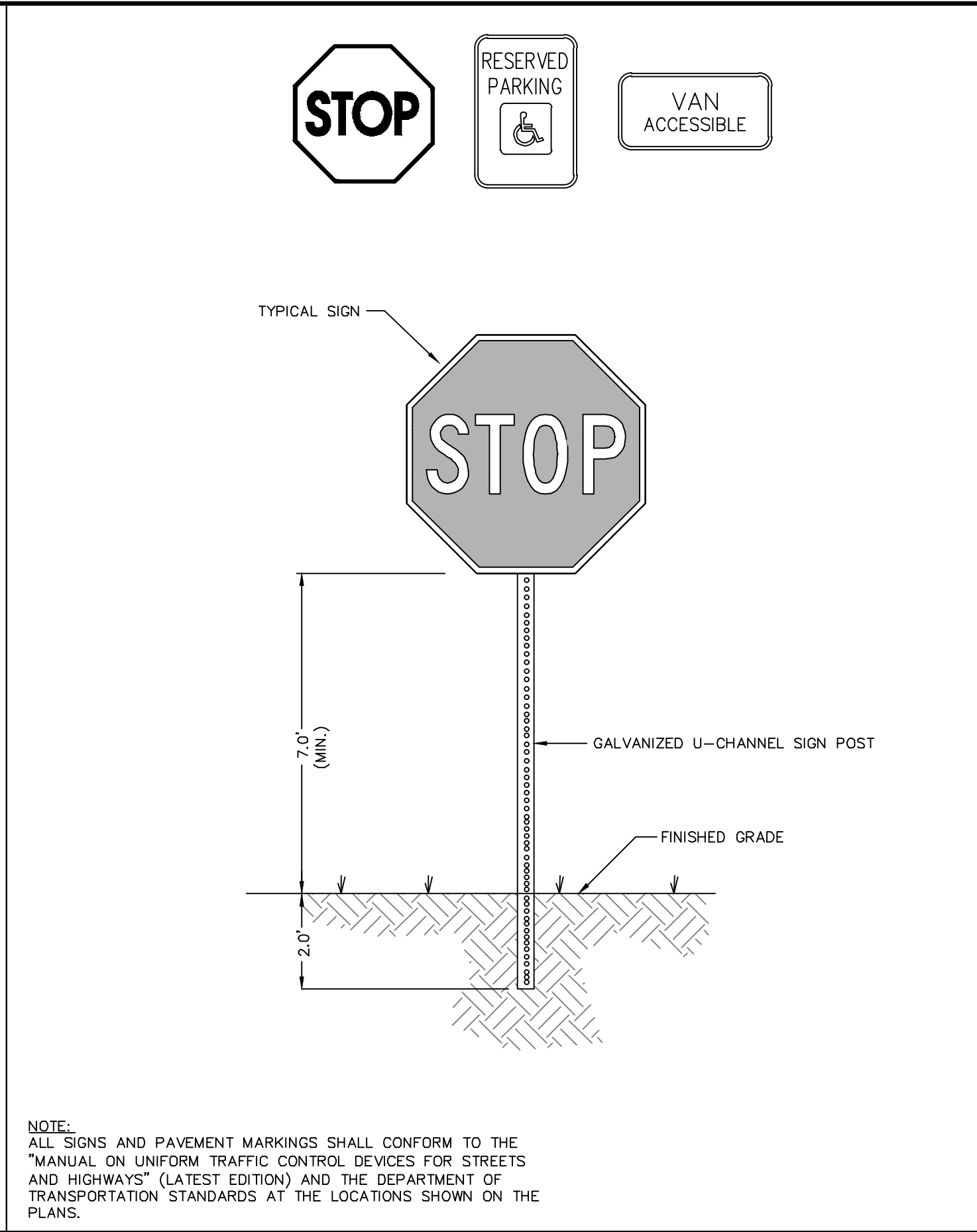


Diagram illustrating typical signage for a parking area, including a stop sign and reserved parking signs.

The diagram shows a stop sign mounted on a galvanized U-channel sign post. The sign is octagonal with the word "STOP" in the center. The post is labeled "GALVANIZED U-CHANNEL SIGN POST".

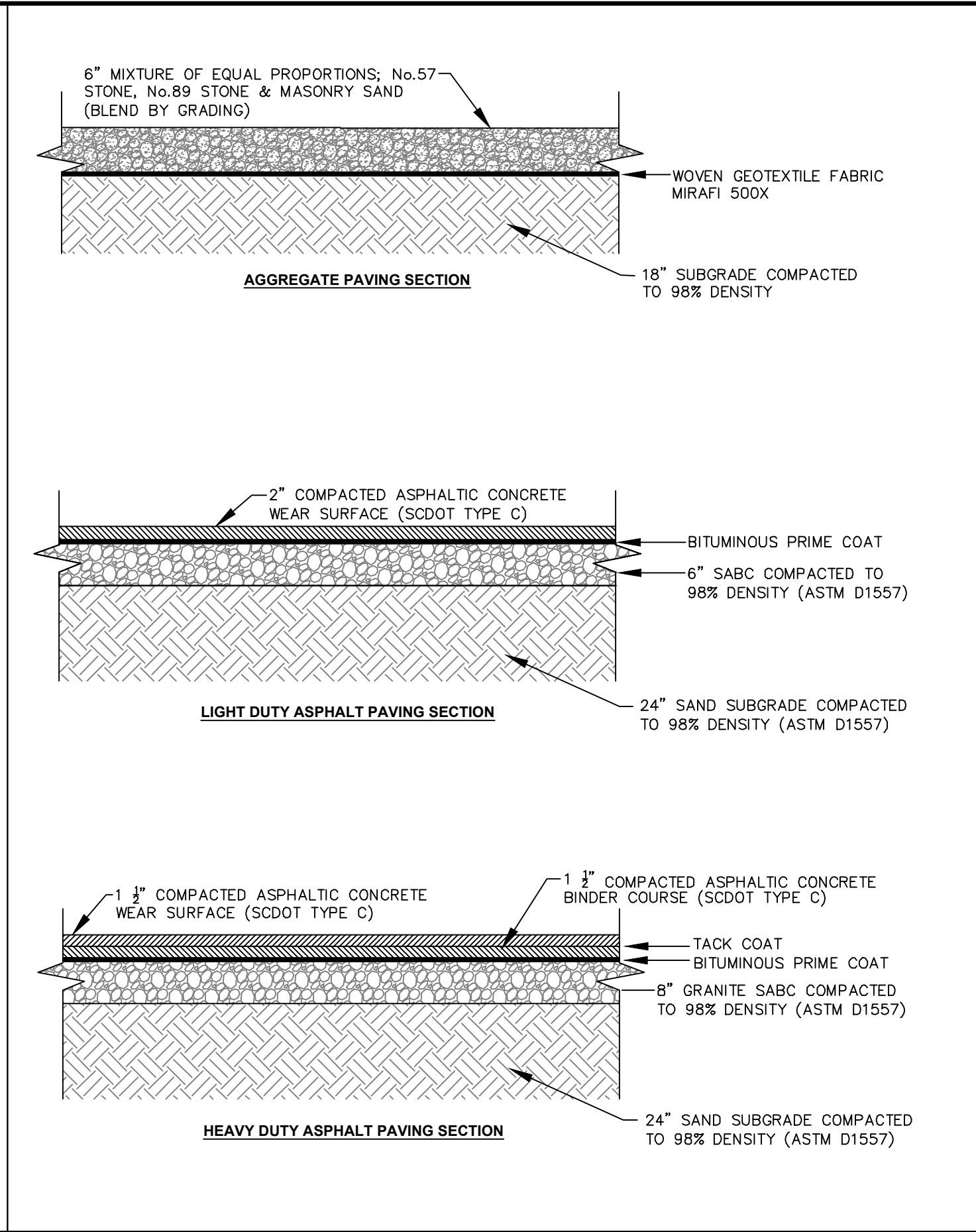
Dimensions and labels:

- 7'0" (MIN.) - Minimum height from finished grade to the bottom of the sign.
- 2'0" - Depth of the sign post in the ground.
- FINISHED GRADE - The ground surface level.
- TYPICAL SIGN - Label pointing to the stop sign.
- RESERVED PARKING - Sign above the stop sign.
- VAN ACCESSIBLE - Sign to the right of the stop sign.

NOTE:
ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (LATEST EDITION) AND THE DEPARTMENT OF TRANSPORTATION STANDARDS AT THE LOCATIONS SHOWN ON THE PLANS.

TYPICAL SIGNAGE

DETAIL #02890-002A



The image displays three cross-sectional diagrams of typical paving sections, each with detailed layer descriptions and dimensions.

AGGREGATE PAVING SECTION

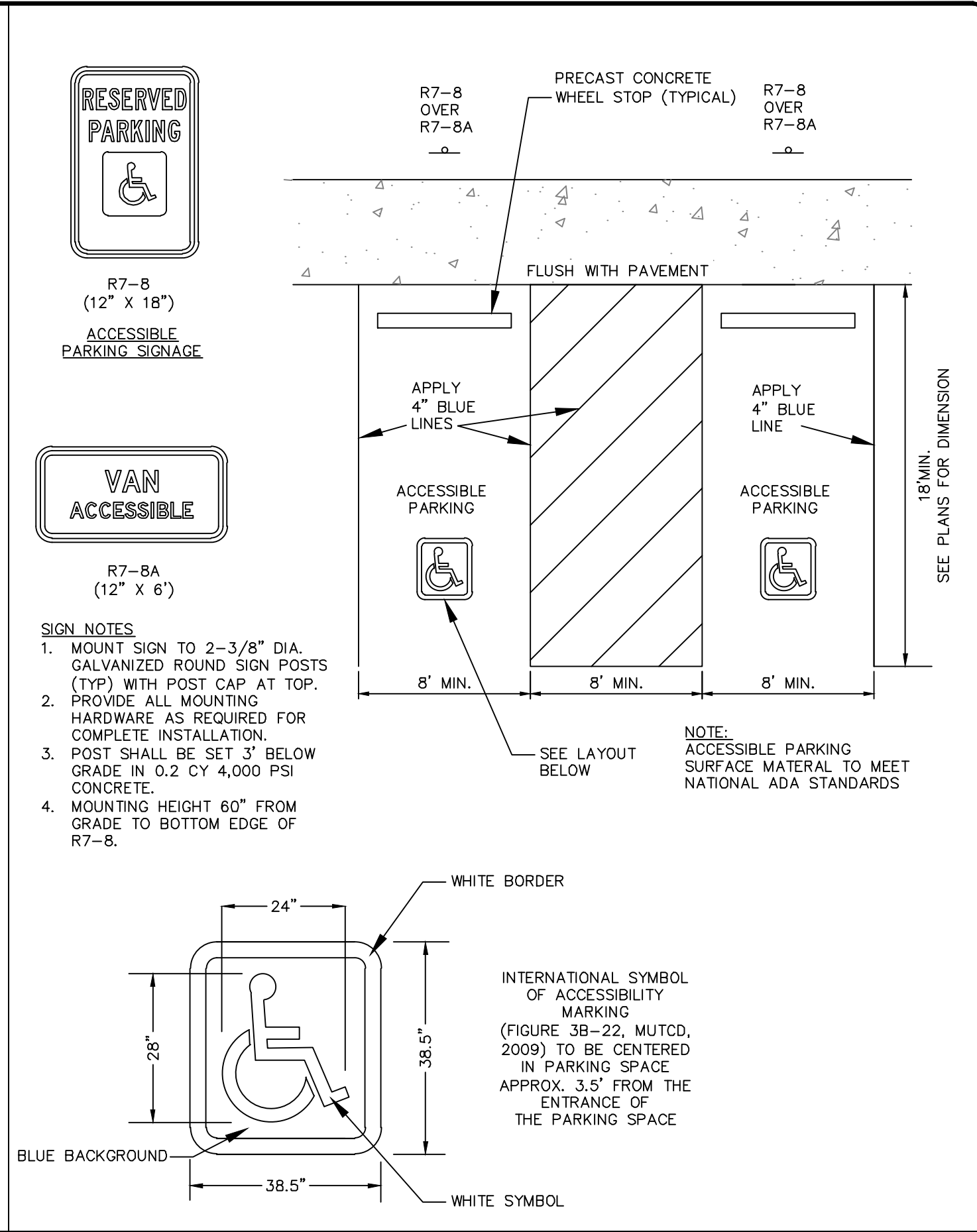
- 6" MIXTURE OF EQUAL PROPORTIONS; No.57 STONE, No.89 STONE & MASONRY SAND (BLEND BY GRADING)
- WOVEN GEOTEXTILE FABRIC MIRAFIL 500X
- 18" SUBGRADE COMPACTED TO 98% DENSITY

LIGHT DUTY ASPHALT PAVING SECTION

- 2" COMPACTED ASPHALTIC CONCRETE WEAR SURFACE (SCDOT TYPE C)
- BITUMINOUS PRIME COAT
- 6" SABC COMPACTED TO 98% DENSITY (ASTM D1557)
- 24" SAND SUBGRADE COMPACTED TO 98% DENSITY (ASTM D1557)

HEAVY DUTY ASPHALT PAVING SECTION

- 1 1/2" COMPACTED ASPHALTIC CONCRETE WEAR SURFACE (SCDOT TYPE C)
- 1 1/2" COMPACTED ASPHALTIC CONCRETE BINDER COURSE (SCDOT TYPE C)
- TACK COAT
- BITUMINOUS PRIME COAT
- 8" GRANITE SABC COMPACTED TO 98% DENSITY (ASTM D1557)
- 24" SAND SUBGRADE COMPACTED TO 98% DENSITY (ASTM D1557)



RESERVED PARKING

R7-8
(12" x 18")

ACCESSIBLE PARKING SIGNAGE

VAN ACCESSIBLE

R7-8A
(12" x 6")

SIGN NOTES

1. MOUNT SIGN TO 2-3/8" DIA. GALVANIZED ROUND SIGN POSTS (TYP) WITH POST CAP AT TOP.
2. PROVIDE ALL MOUNTING HARDWARE AS REQUIRED FOR COMPLETE INSTALLATION.
3. POST SHALL BE SET 3" BELOW GRADE IN 0.2 CY 4,000 PSI CONCRETE.
4. MOUNTING HEIGHT 60" FROM GRADE TO BOTTOM EDGE OF R7-8.

PRECAST CONCRETE WHEEL STOP (TYPICAL)

R7-8 OVER R7-8A

FLUSH WITH PAVEMENT

APPLY 4" BLUE LINES

ACCESSIBLE PARKING

8' MIN.

8' MIN.

8' MIN.

18" MIN.

SEE PLANS FOR DIMENSION

NOTE: ACCESSIBLE PARKING SURFACE MATERIAL TO MEET NATIONAL ADA STANDARDS

SEE LAYOUT BELOW

WHITE BORDER

24"

28"

35"

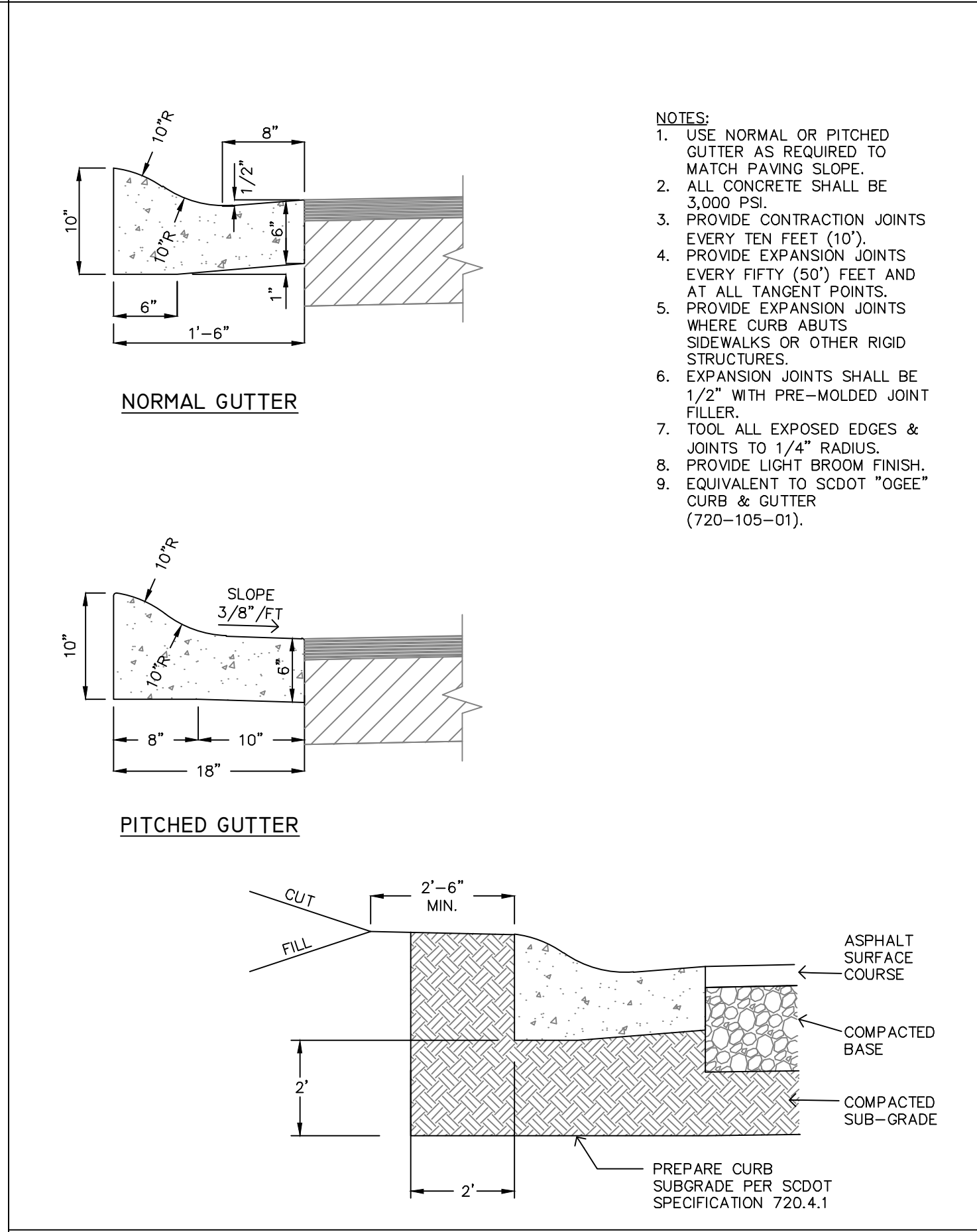
38.5"

BLUE BACKGROUND

WHITE SYMBOL

INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING (FIGURE 38-22, MUTCD, 2003) TO BE CENTERED IN PARKING SPACE APPROX. 3.5' FROM THE ENTRANCE OF THE PARKING SPACE

ACCESSIBLE PARKING DETAIL



NOTES:

1. USE NORMAL OR PITCHED GUTTER AS REQUIRED TO MATCH PAVING SLOPE.
2. ALL CONCRETE SHALL BE 3,000 PSI.
3. PROVIDE CONTRACTION JOINTS EVERY TEN FEET (10').
4. PROVIDE EXPANSION JOINTS EVERY FIFTY (50') FEET AND AT ALL TANGENT POINTS.
5. PROVIDE EXPANSION JOINTS WHERE CURB ABUTS SIDEWALKS OR OTHER RIGID STRUCTURES.
6. EXPANSION JOINTS SHALL BE 1/2" WITH PRE-MOLDED JOINT FILLER.
7. TOOL ALL EXPOSED EDGES & JOINTS TO 1/4" RADIUS.
8. PROVIDE LIGHT BROOM FINISH.
9. EQUIVALENT TO SCODOT "OGEE" CURB & GUTTER (720-105-01).

18" ROLL-OVER CURB & GUTTER

DETAIL 03300-002A

SOUTH CAROLINA
DEPARTMENT OF PROFESSIONAL REGULATION
Paul R. Moore
LICENSE No. 22816
 EXPIRATION DATE 11/24/2017
PAUL R. MOORE

SOUTH CAROLINA
DEPARTMENT OF PROFESSIONAL REGULATION
CERTIFICATE OF AUTHORIZATION
 WARD
 EDWARDS, INC.
 No. C00152

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No.	Description	Date
Plan Revisions		



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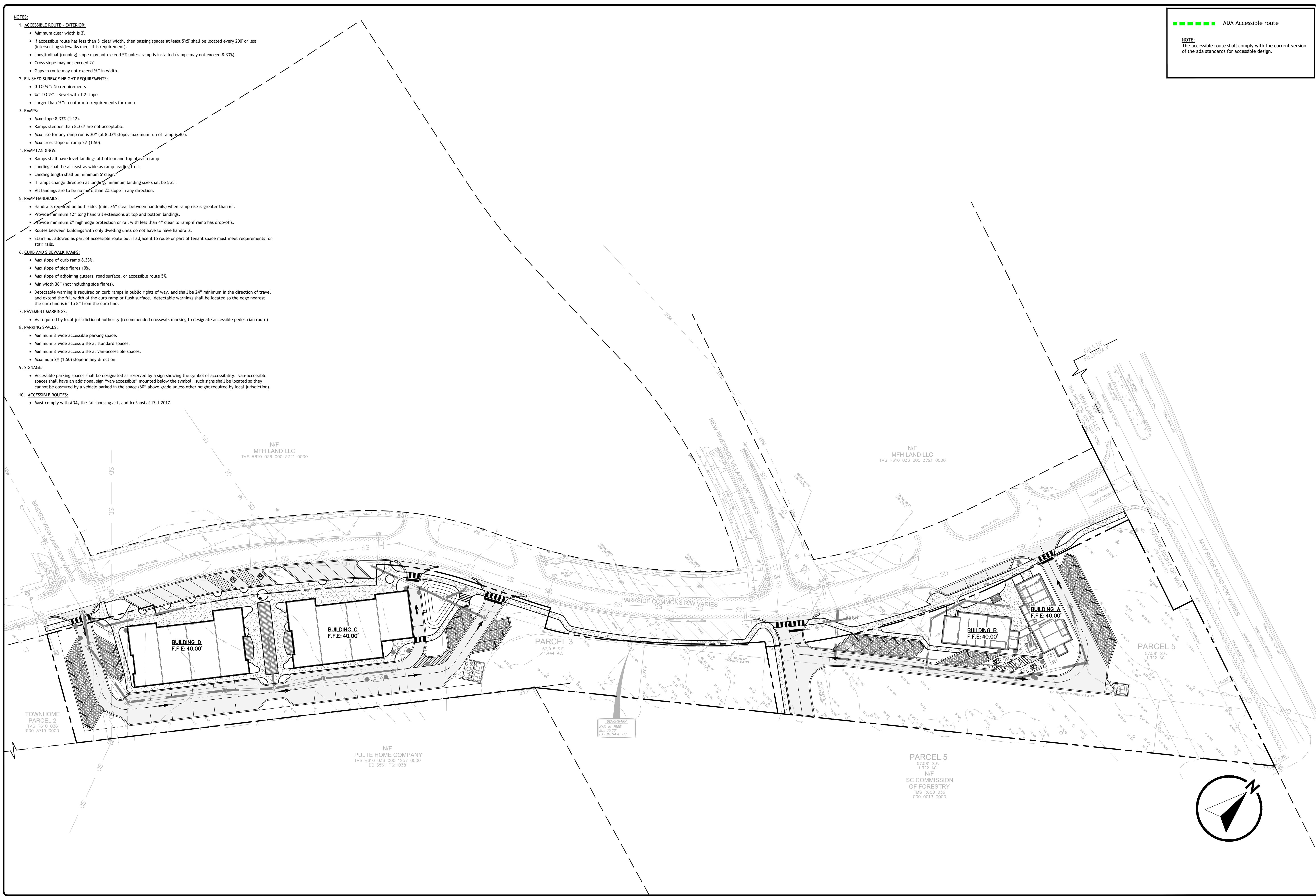
Architecture 101

Paving Details

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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 1/4" 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 20').
 - 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 icc/ansi a117.1-2017.

■ ■ ■ ■ ■ ADA Accessible route

NOTE:
The accessible route shall comply with the current version of the ada standards for accessible design.

No.	Description	Plan Revisions
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ADA Accessible Route Plan

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0 40 80 Feet
Scale: 1" = 40'

C1301

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