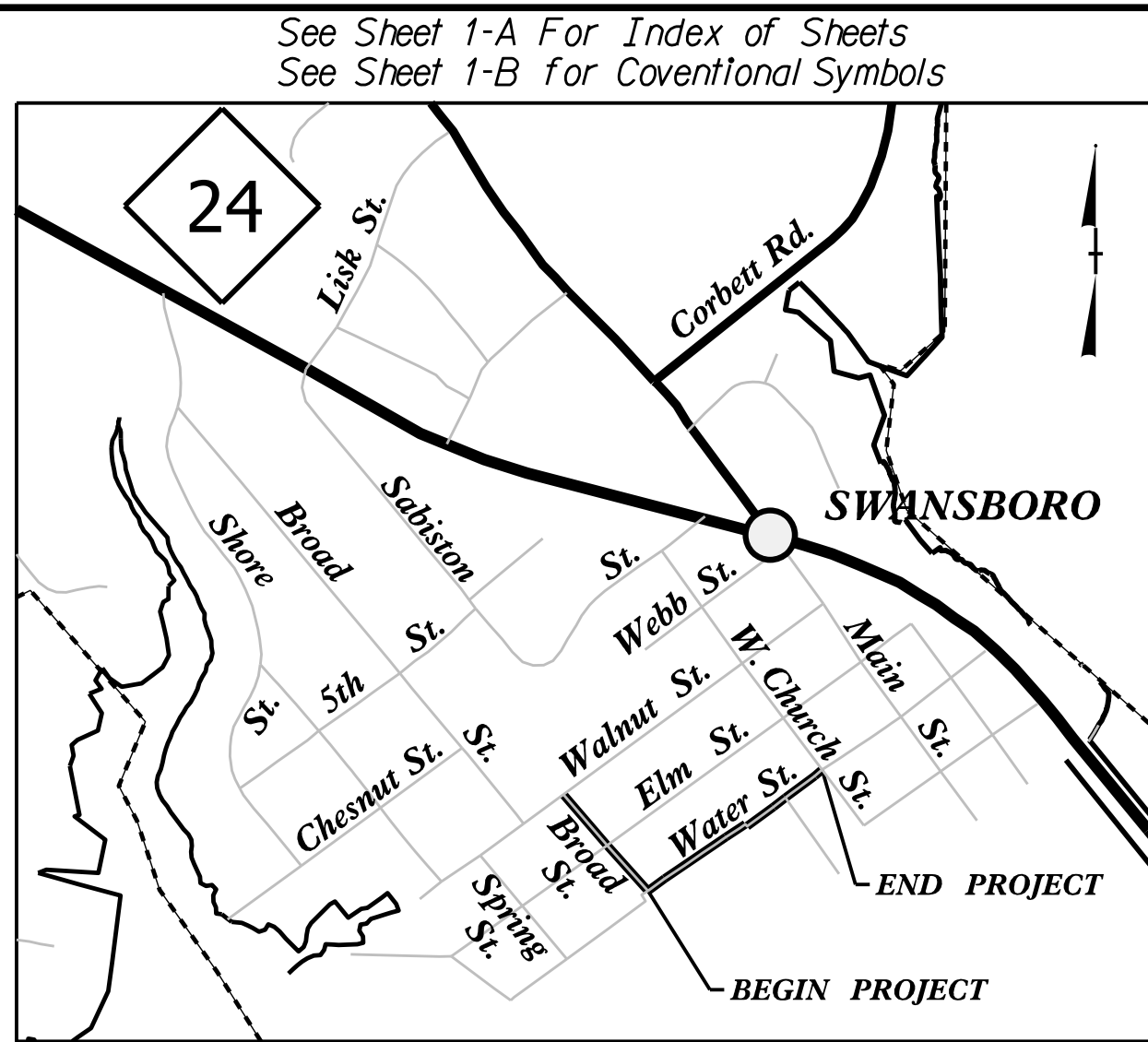


6/5/20/80/50

TIP PROJECT: N/A

CONTRACT: N/A



VICINITY MAP
(N.T.S.)

TOWN OF SWANSBORO
ONSLOW COUNTY, NORTH CAROLINA

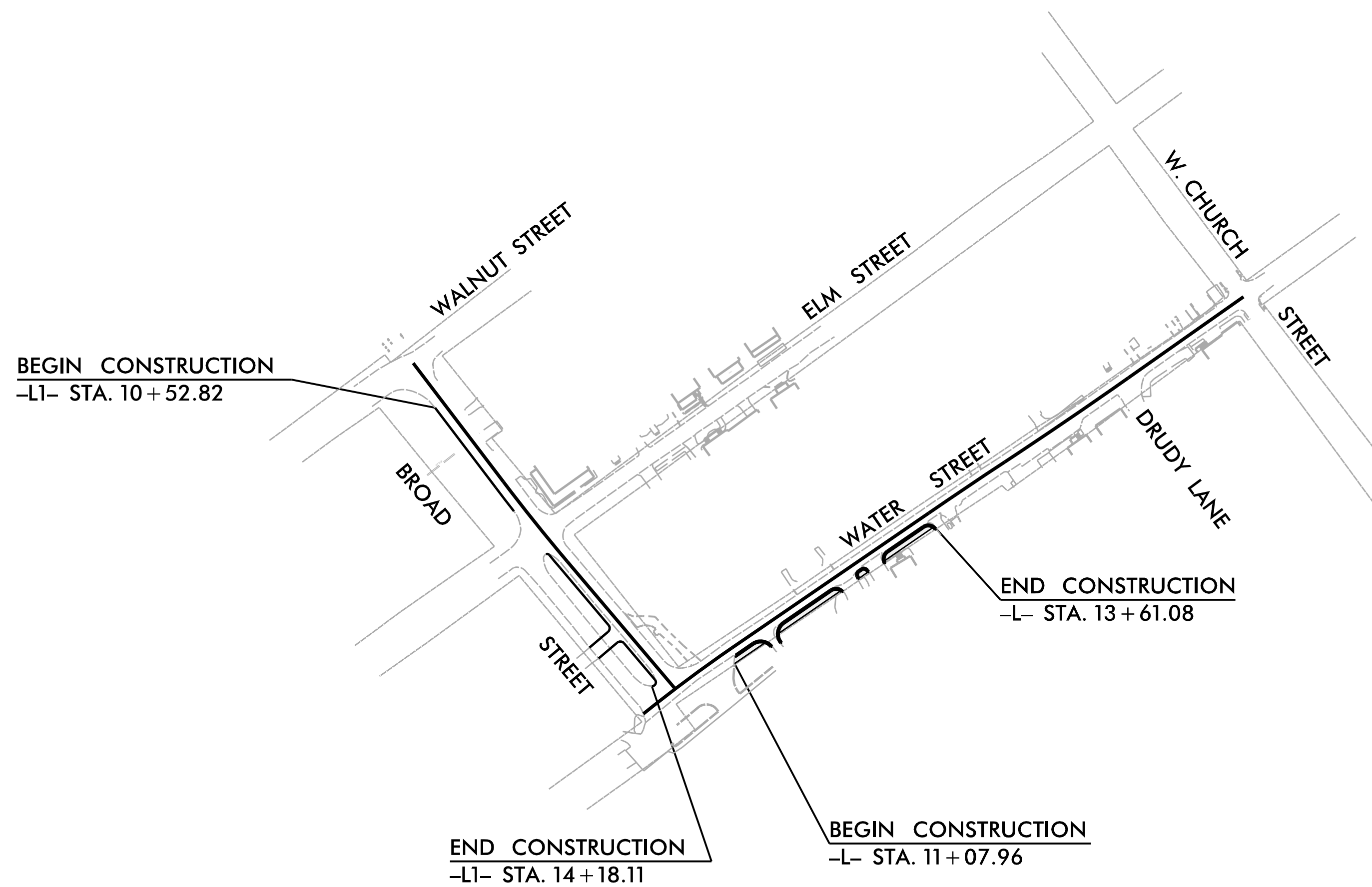
**WATER STREET
DRAINAGE IMPROVEMENTS**

LOCATION: FROM WATER STREET TO W. CHURCH STREET AND
BROAD STREET TO WATER STREET

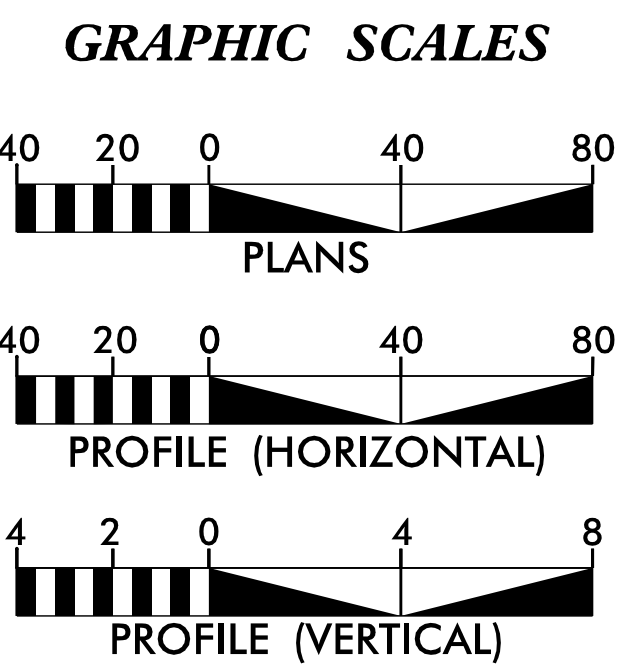
TYPE OF WORK: GRADING, PAVING, DRAINAGE, & EROSION CONTROL

60% PLANS

SUBMITTAL DATE: APRIL 28, 2023



THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF SWANSBORO.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.



DESIGN DATA
V = 40 MPH

PROJECT LENGTH
WATER STREET
= .048 MILES
BROAD STREET
= .069 MILES

TOWN OF SWANSBORO CONTACT:

PAULA WEBB
TOWN MANAGER
PH. 910-326-4428

NCDOT CONTACT:

KATIE HITE, P.E.
DIVISION 3 PROJECT DEVELOPMENT ENGINEER

PREPARED IN THE OFFICE OF:

 WithersRavenel
Engineers | Planners | Surveyors
115 MacKinnon Drive, Cary, NC 27511 | 919.497.3340 | License # E-1479 | www.withersravenel.com

2018 STANDARD SPECIFICATIONS

LETTING DATE:
?

TED KALLAM, P.E.
PROJECT ENGINEER

DOUGLAS PETRY
PROJECT DESIGNER

PROJECT ENGINEER


PRELIMINARY
NOT APPROVED FOR
CONSTRUCTION
TED A. KALLAM
P.E.

SIGNATURE:

PREPARED FOR:

TOWN OF SWANSBORO
601 W. CORBETT AVENUE
SWANSBORO, NC 28584

2018 NCDOT LIST OF STANDARD DRAWINGS

STD. NO.	STANDARD DRAWING TITLES
200.02	METHOD OF CLEARING – METHOD II
605.01	TEMPORARY SILT FENCE
840.01	BRICK CATCH BASIN – 12” THRU 54” PIPE
840.02	CONCRETE CATCH BASIN – 12” THRU 54’ PIPE
840.03	FRAME, GRATES AND HOOD –FOR USE ON STANDARD CATCH BASIN
846.01	CONCRETE CURB, GUTTER AND CURB AND GUTTER
848.01	CONCRETE SIDEWALK
848.02	DRIVEWAY TURNOUT – RADIUS TYPE
848.05	CURB RAMP – PROPOSED CURB AND GUTTER
1101.01	WORK ZONE WARNING SIGNS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGING DEVICES
1632.01	ROCK INLET SEDIMENT TRAP TYPE ‘A’
1632.02	ROCK INLET SEDIMENT TRAP TYPE ‘B’
1632.02	ROCK INLET SEDIMENT TRAP TYPE ‘C’

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1–A	INDEX OF SHEETS, LIST OF STANDARD DRAWINGS
1–B	CONVENTIONAL SYMBOLS
2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2D–1	DRAINAGE SUMMARY SHEET
X–1 THRU X–2	WATER STREET CROSS SECTIONS
X–3 THRU X–4	BROAD STREET CROSS SECTIONS

TOWN OF SWANSBORO
601 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS

WATER STREET DRAINAGE
IMPROVEMENTS

WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY



INITIAL PLAN DATE:
REVISIONS:

WR JOB NO.	DATE
220730.00	04/28/2023
DRN: WR	DGN: WR CKD: WR

INDEX OF SHEETS &
LIST OF STANDARD
DRAWINGS

1-A

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin	
Computed Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

RAILROADS:

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Exist Permanent Easement Pin and Cap	
New Permanent Easement Pin and Cap	
Vertical Benchmark	
Existing Right of Way Marker	
Existing Right of Way Line	
New Right of Way Line	
New Right of Way Line with Pin and Cap	
New Right of Way Line with Concrete or Granite R/W Marker	
New Control of Access Line with Concrete CA Marker	
Existing Control of Access	
New Control of Access	
Existing Easement Line	
New Temporary Construction Easement	
New Temporary Drainage Easement	
New Permanent Drainage Easement	
New Permanent Drainage / Utility Easement	
New Permanent Utility Easement	
New Temporary Utility Easement	
New Aerial Utility Easement	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	

VEGETATION:

Single Tree	
Single Shrub	

Hedge	
Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line LOS B (S.U.E.*)	
U/G Power Line LOS C (S.U.E.*)	
U/G Power Line LOS D (S.U.E.*)	

TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Cable LOS B (S.U.E.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line LOS B (S.U.E.*)	
U/G Water Line LOS C (S.U.E.*)	
U/G Water Line LOS D (S.U.E.*)	
Above Ground Water Line	

TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	
U/G TV Cable LOS D (S.U.E.*)	
U/G Fiber Optic Cable LOS B (S.U.E.*)	
U/G Fiber Optic Cable LOS C (S.U.E.*)	
U/G Fiber Optic Cable LOS D (S.U.E.*)	

GAS:

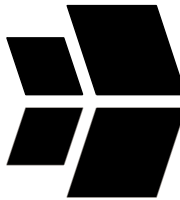
Gas Valve	
Gas Meter	
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)	

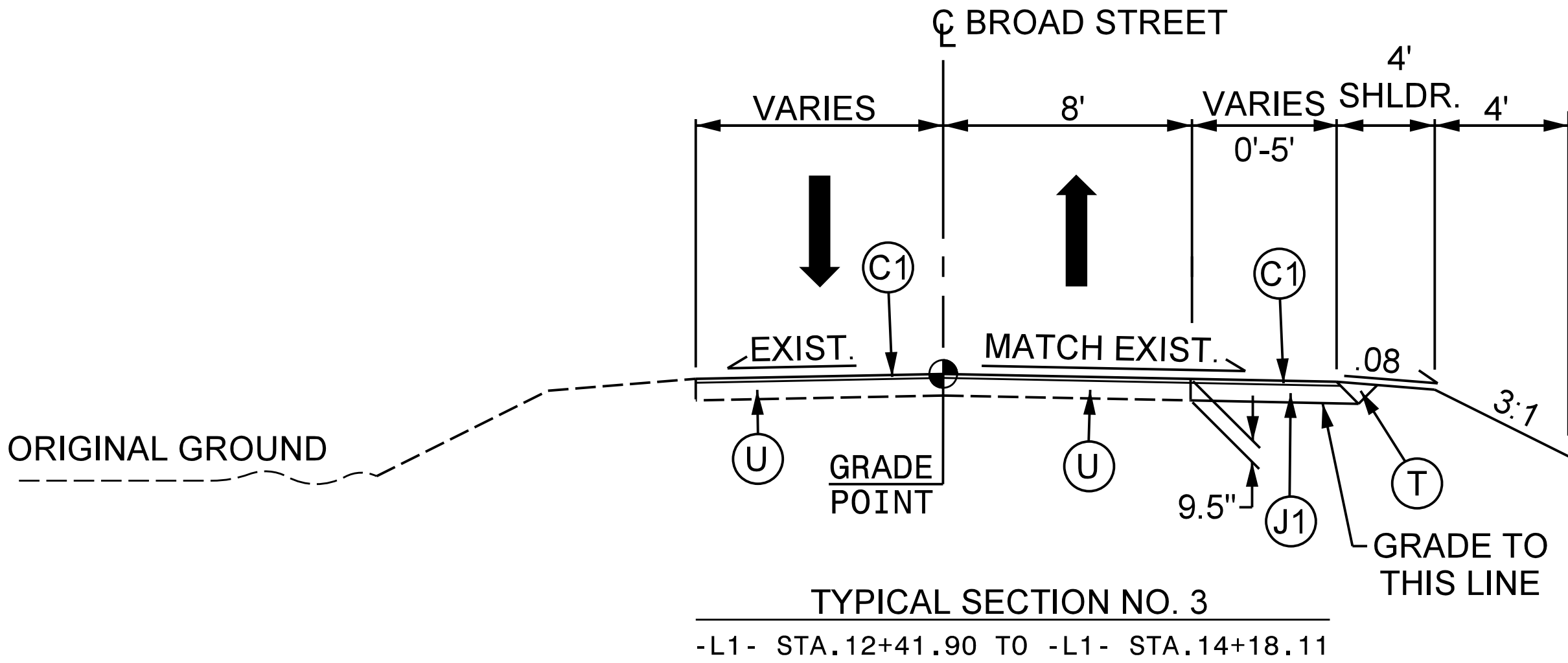
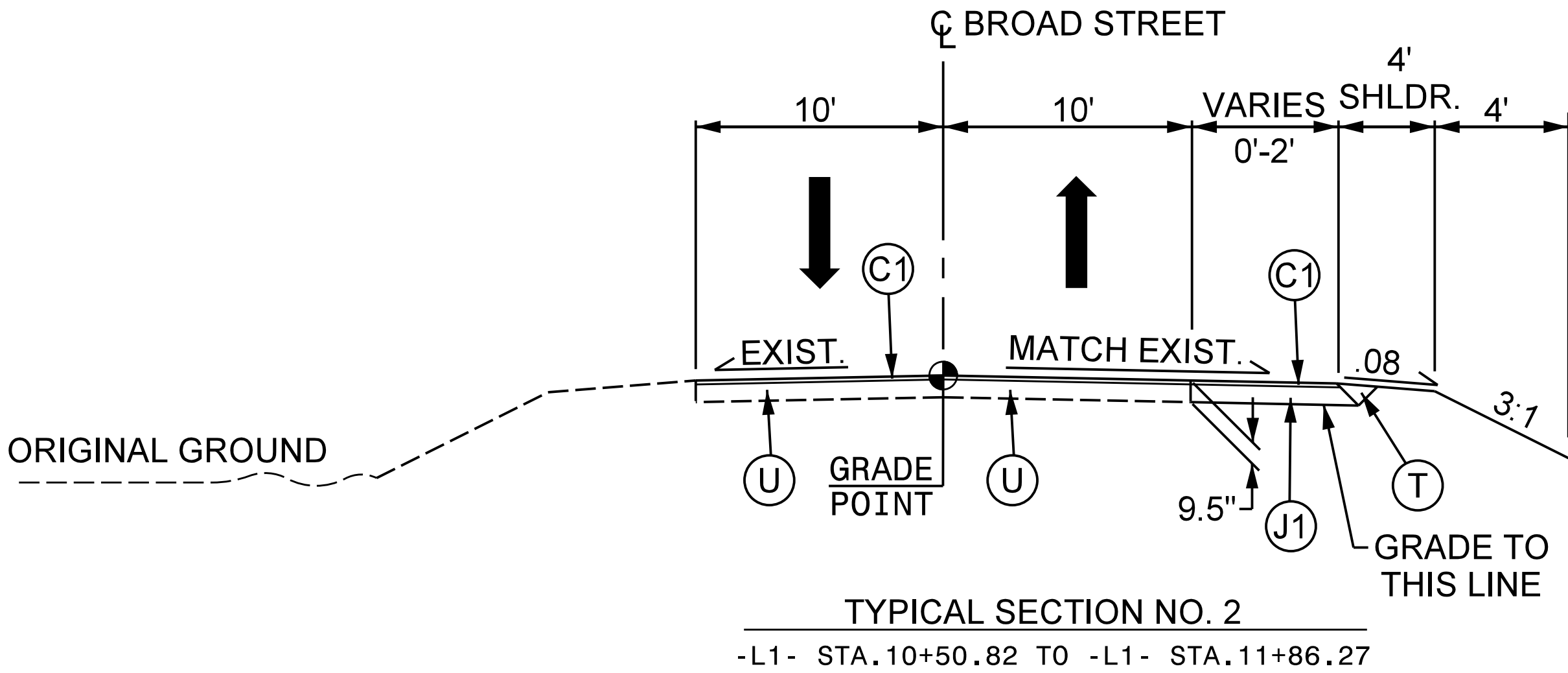
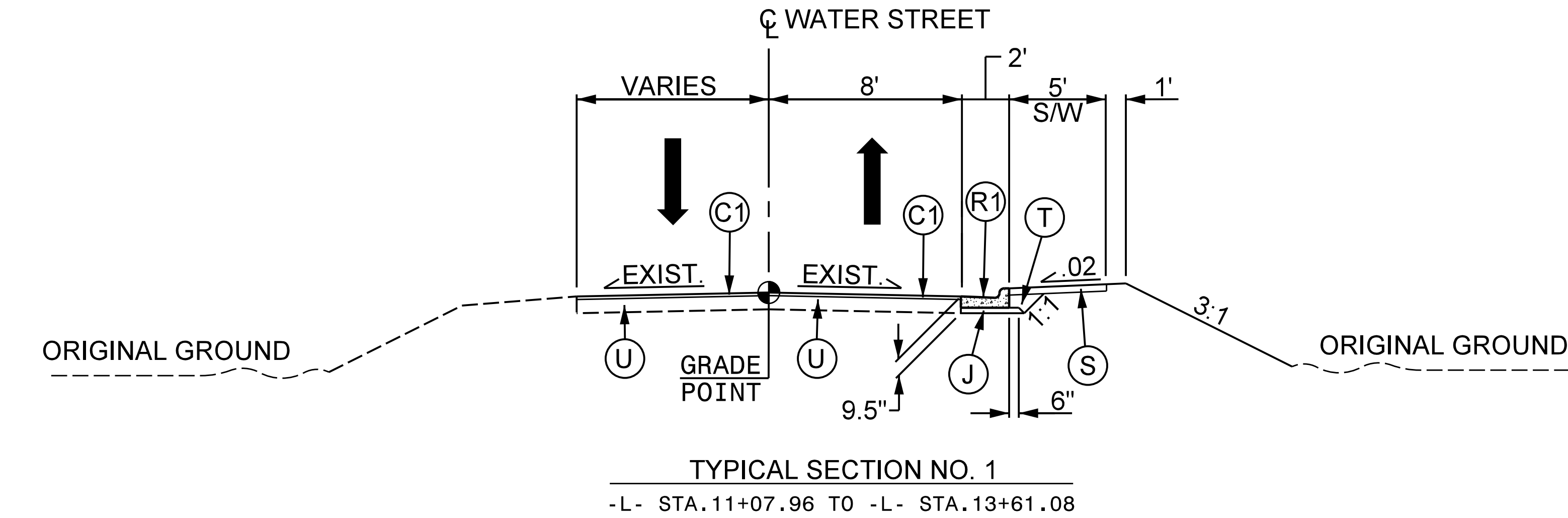
MISCELLANEOUS:

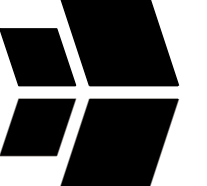
Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
U/G Test Hole LOS A (S.U.E.*)	
Abandoned According to Utility Records	
End of Information	



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
J	3" AGGREGATE BASE COURSE
J1	8" AGGREGATE BASE COURSE
R1	2'-0" CONCRETE CURB & GUTTER
S	5' CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT

NOTE: 1. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE SPECIFIED.





WithersRavenel
115 McKean Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

TOWN OF SWANSBORO
601 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS

WATER STREET DRAINAGE IMPROVEMENTS

WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW COUNTY

PRELIMINARY

NOT APPROVED FOR CONSTRUCTION

ED: A. KAL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NO. DATE
220730.00 04/28/2023
DRN: WR DGN: WR CKD: WR

TYPICAL SECTIONS

2

our people • your success

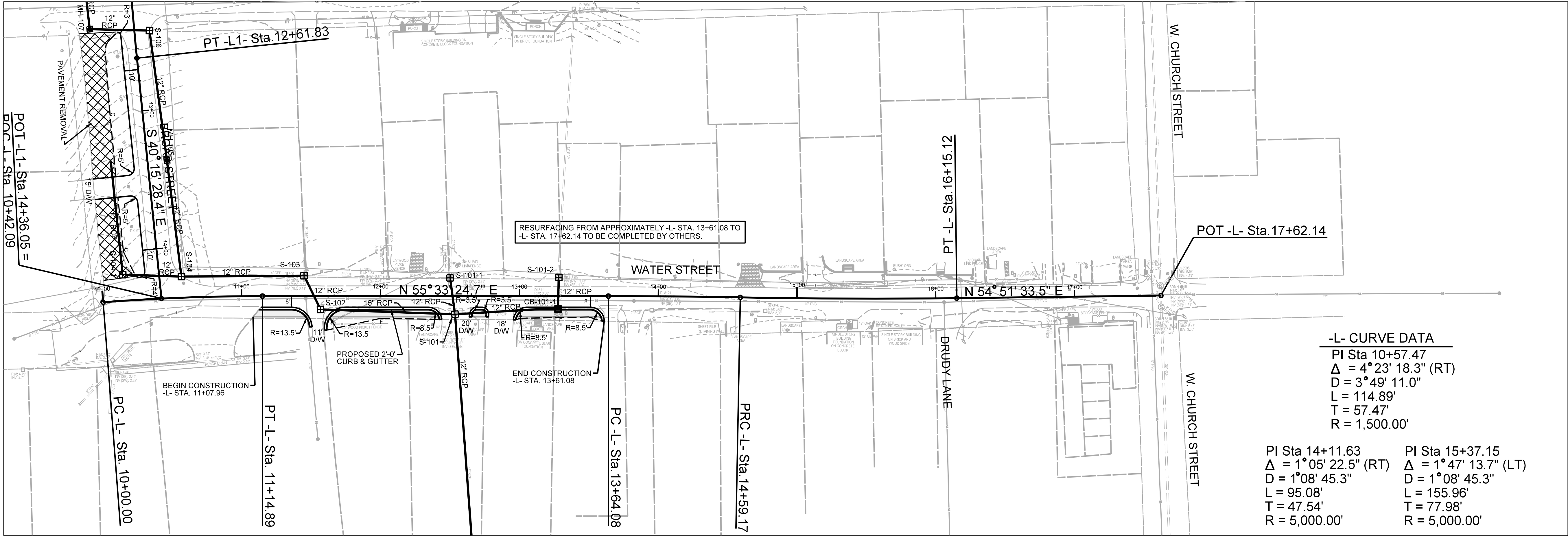
[illegible]

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

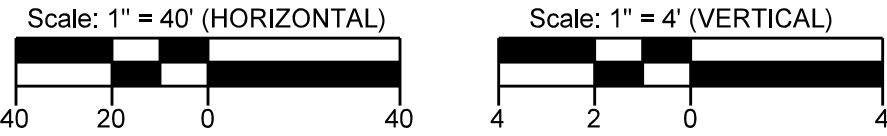
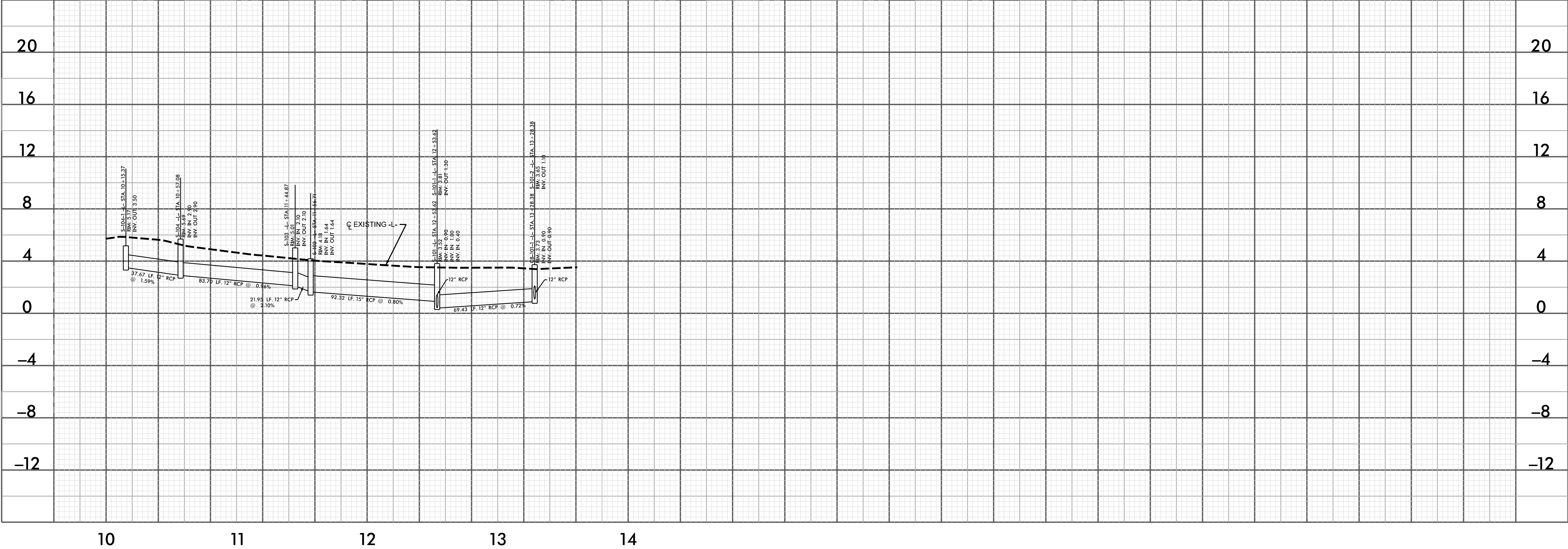
Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

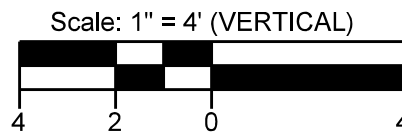
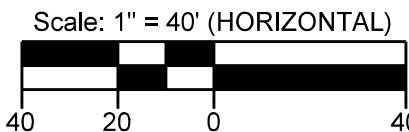
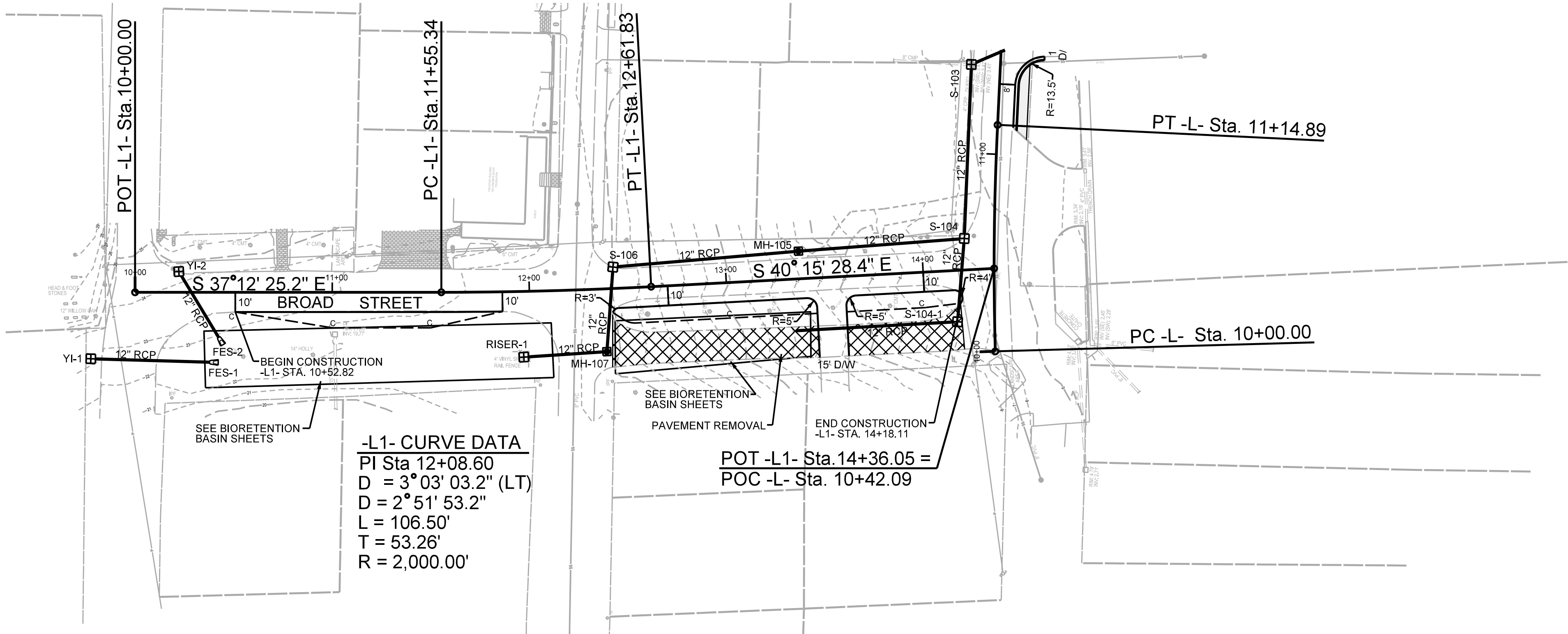
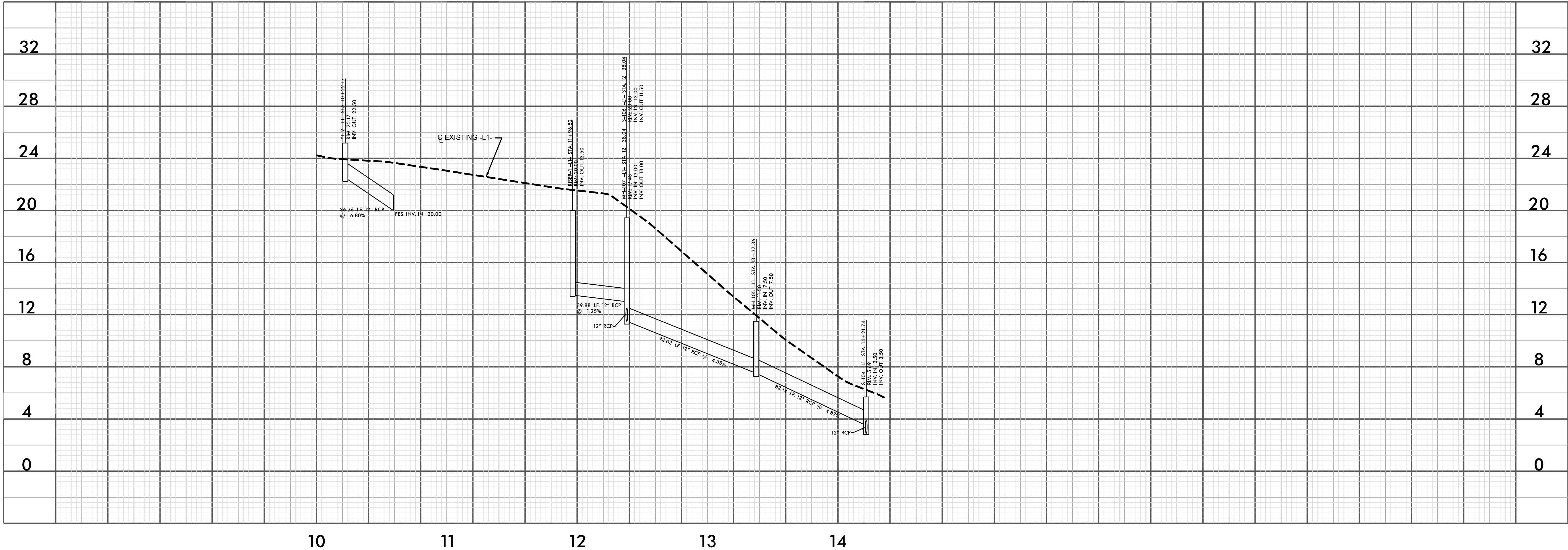
[illegible]



-L- CURVE DATA	
PI Sta 10+57.47	
$\Delta = 4^{\circ}23' 18.3''$ (RT)	
D = 3°49' 11.0"	
L = 114.89'	
T = 57.47'	
R = 1,500.00'	
PI Sta 14+11.63	PI Sta 15+37.15
$\Delta = 1^{\circ}05' 22.5''$ (RT)	$\Delta = 1^{\circ}47' 13.7''$ (LT)
D = 1°08' 45.3"	D = 1°08' 45.3"
L = 95.08'	L = 155.96'
T = 47.54'	T = 77.98'
R = 5,000.00'	R = 5,000.00'



K:\22\220790\220790-Swansboro Water S Drainage Improvements\CAUTION\WCDOT\WAGE PLAN PROFILE.dgn - DPTWY



WR JOB NO.	DATE
220790.00	04/28/2023
DRN: WR	DGN: WR
CKD: WR	

BROAD
STREET PLAN
PROFILE

5

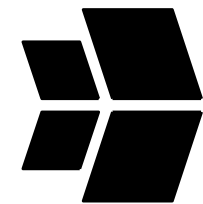
PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALLA



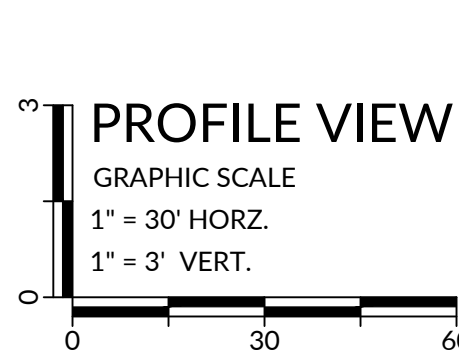
INITIAL PLAN DATE:
REVISIONS:

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

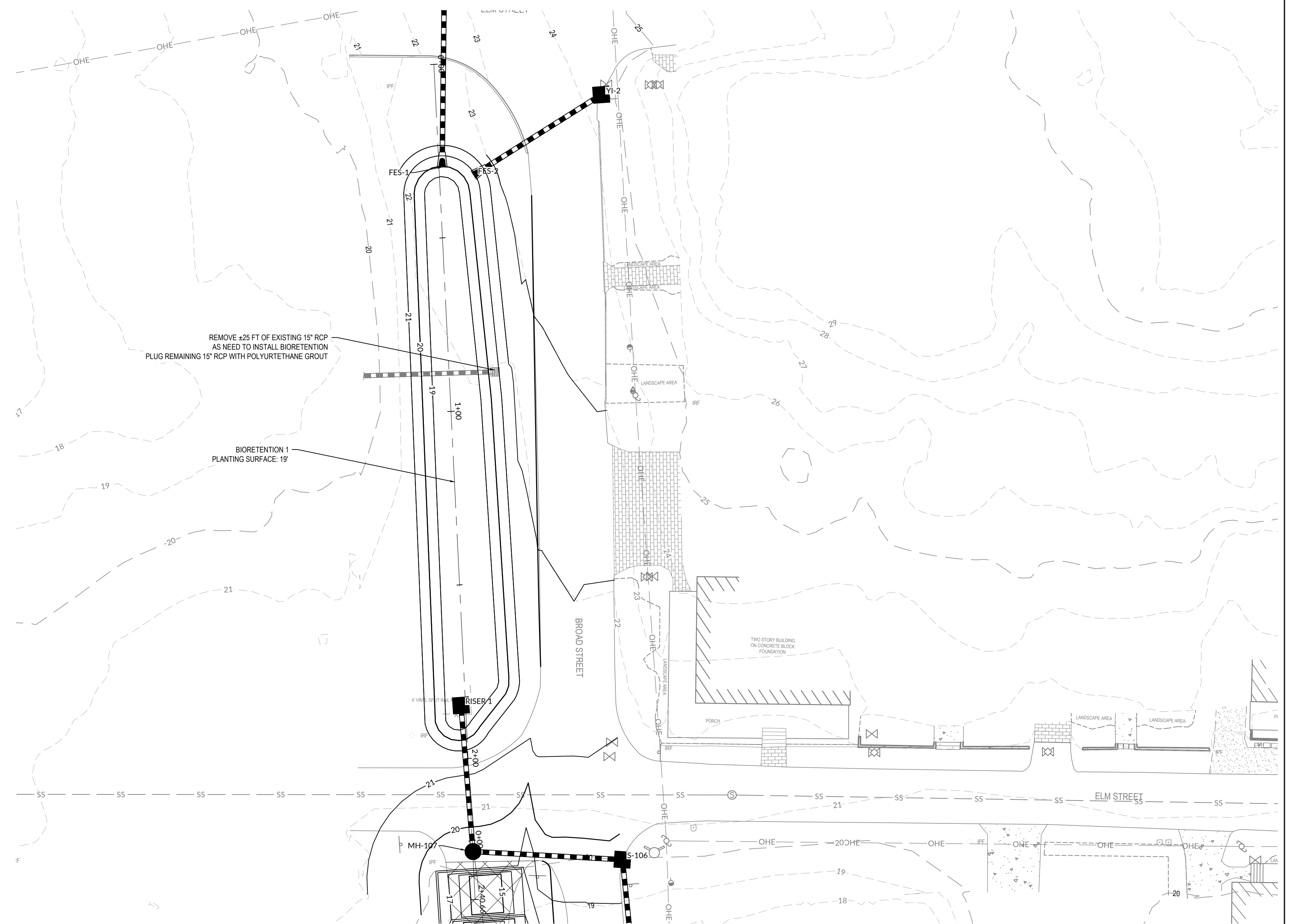
TOWN OF SWANSBORO
SWANSBORO, NORTH CAROLINA
SWANSBORO, NC 28584



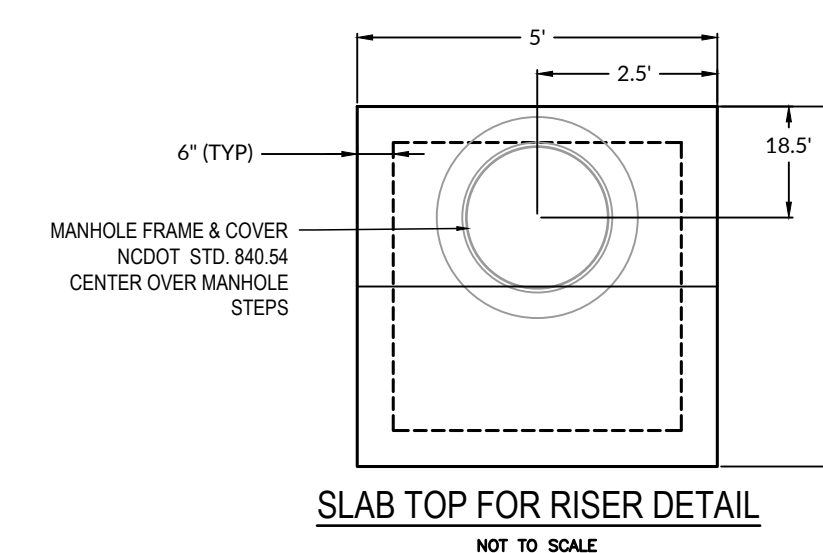
WithersRavenel
115 McKean Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com



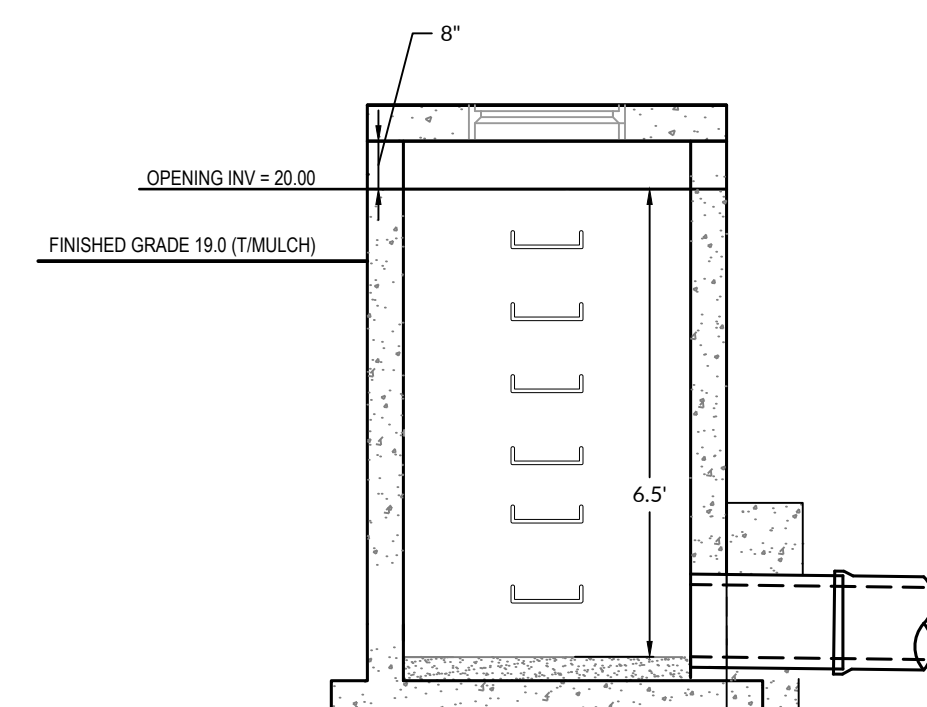
BIORETENTION - PLAN VIEW



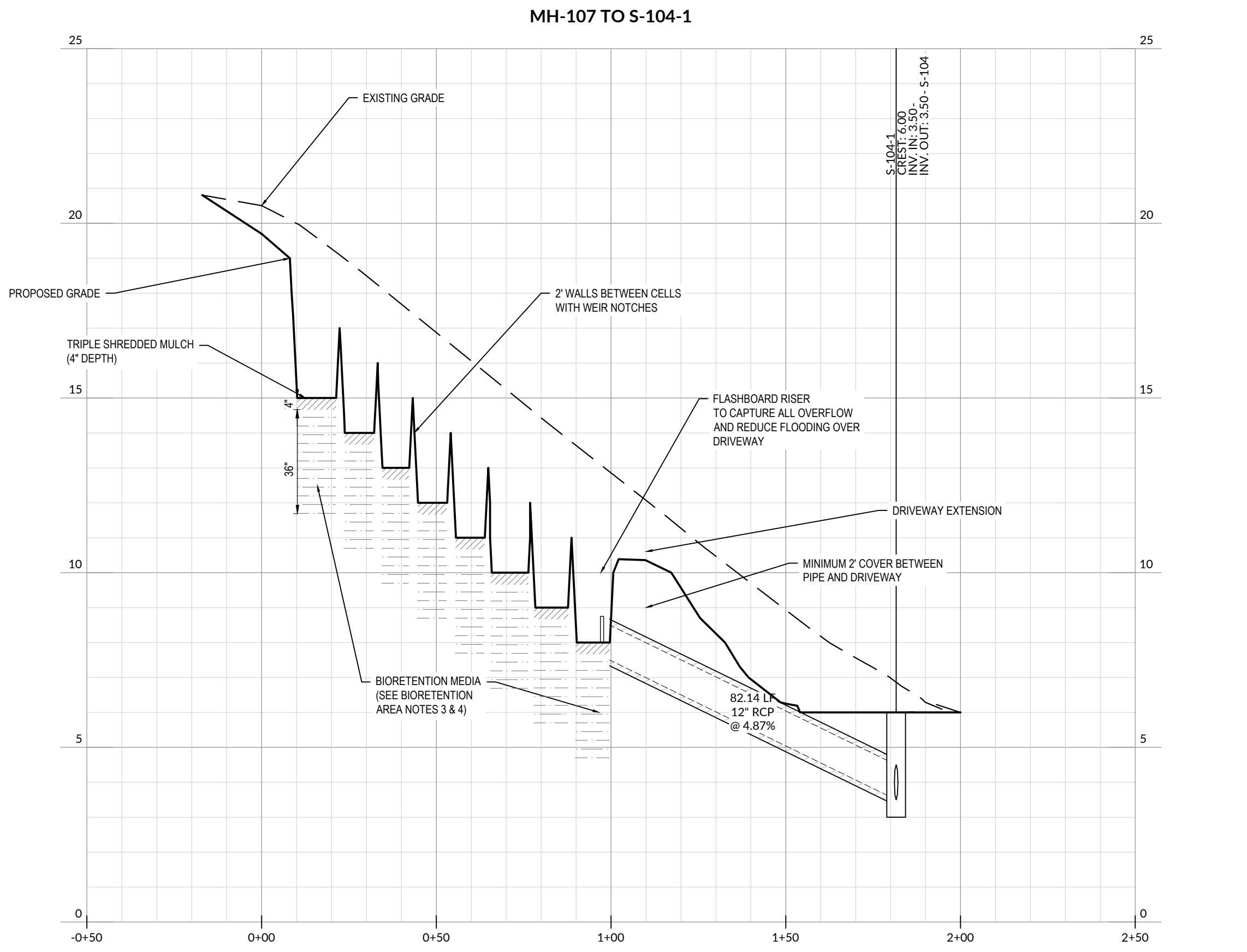
BIORETENTION 1 RISER WALL ELEVATIONS
NOT TO SCALE



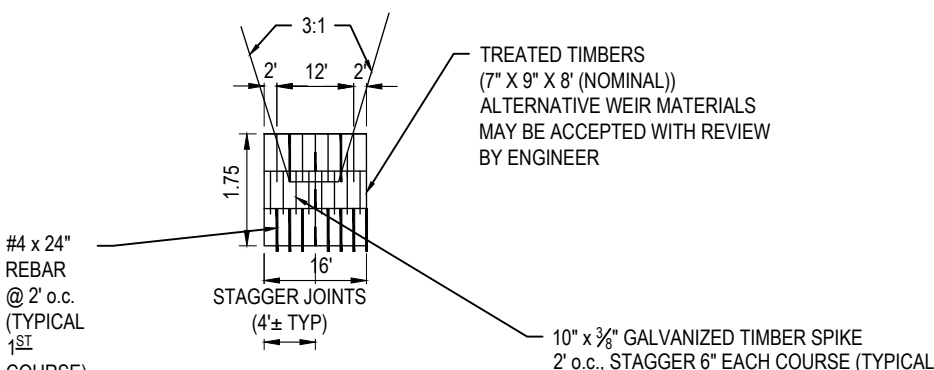
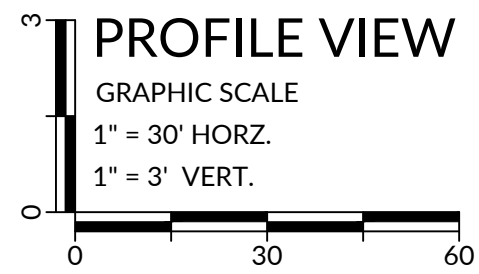
BIORETENTION 1 DRAWDOWN DEVICE DETAIL



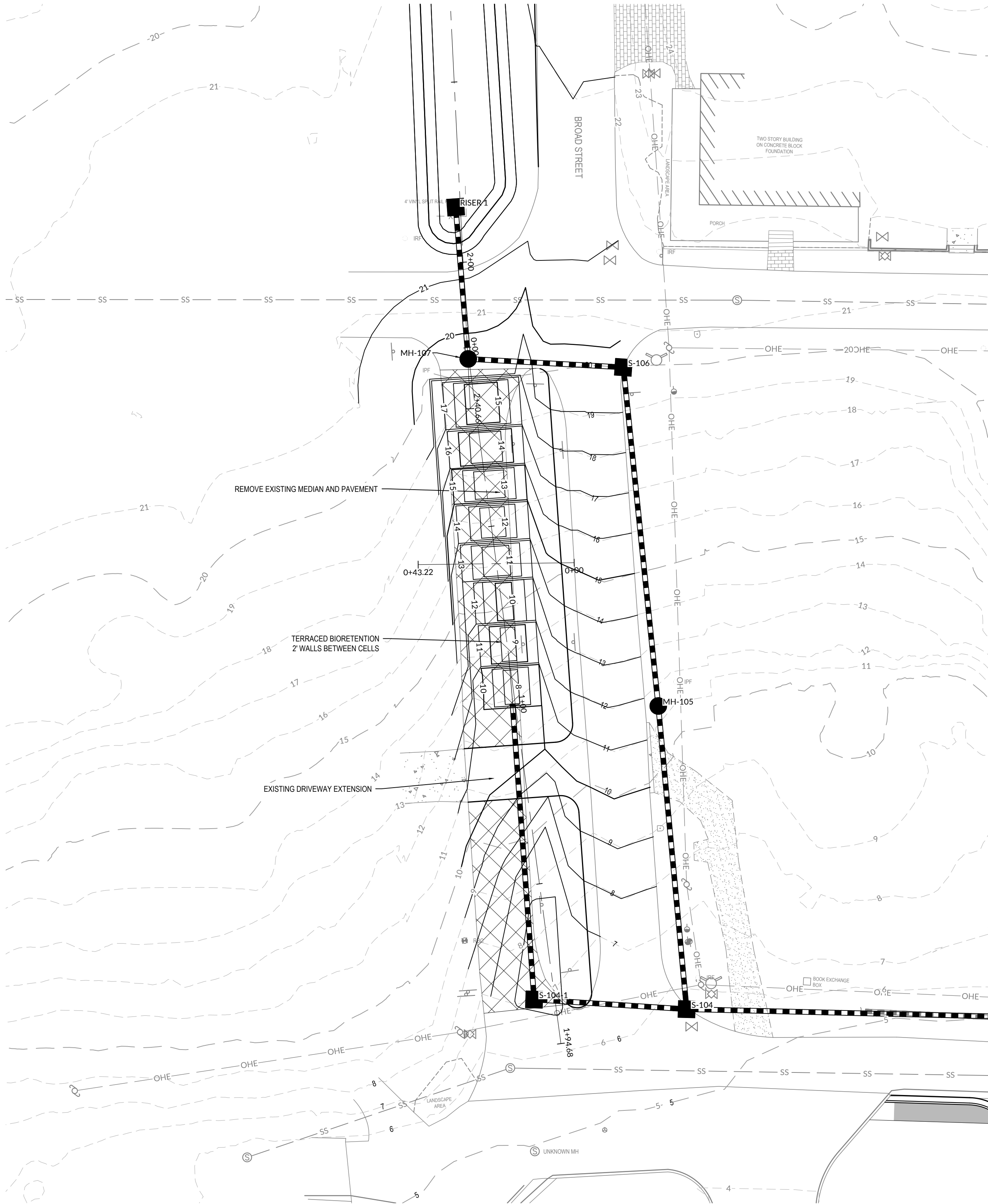
K:\22\22-0720\220720-Swansboro Water St Drainage Improvements\CAD Drawings\22-0720\PLAN AND DETAIL\Drawing Title.dwg, April 28, 2022 3:52:14 PM - JGB/BA



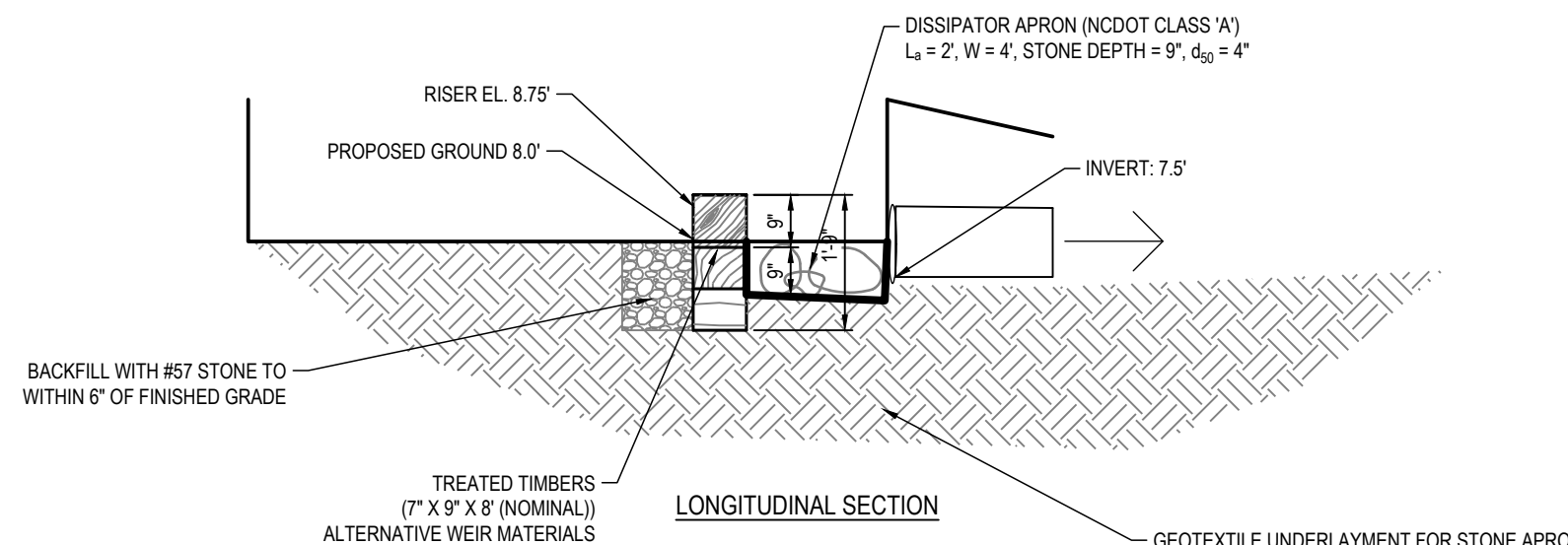
TERRACED BIORETENTION - PROFILE



- NOTES:
- TIMBERS TO BE TREATED FOR PERMANENT GROUND CONTACT (AMERICAN WOOD PRESERVERS' ASSOCIATION (AWPA) USE CATEGORY UC4B, (0.60 qt COA OR EQUIVALENT))
 - BOULDERS AND RIVER ROCK SHALL BE APPROVED BY ENGINEER PRIOR TO TRANSPORT TO SITE.
 - GEOTEXTILE UNDERLAYMENT SHALL CONFORM TO MCDOT SPECIFICATION 106-4, TYPE 2.
 - STAKES FOR FIRST COURSE SHALL BE 4" GRADE (6" DEFORMED STEEL BAR REINFORCEMENT).
 - GALVANIZED SPIKES SHALL CONFORM TO MCDOT STANDARD 107-4.
 - ALTERNATIVE MATERIALS MAY BE APPROVED BY ENGINEER, DURING SITE PREPARATION ON-SITE ROCK THAT IS ENCOUNTERED MAY BE USED IF DEEMED ACCEPTABLE BY ENGINEER AND OWNER.



TERRACED BIORETENTION - PLAN VIEW



WEIR TIMBERS TO OUTLET DETAIL
NTS

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION

TOWN OF SWANSBORO
661 W. CORRETT AVENUE
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS
WATER STREET DRAINAGE
IMPROVEMENTS
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

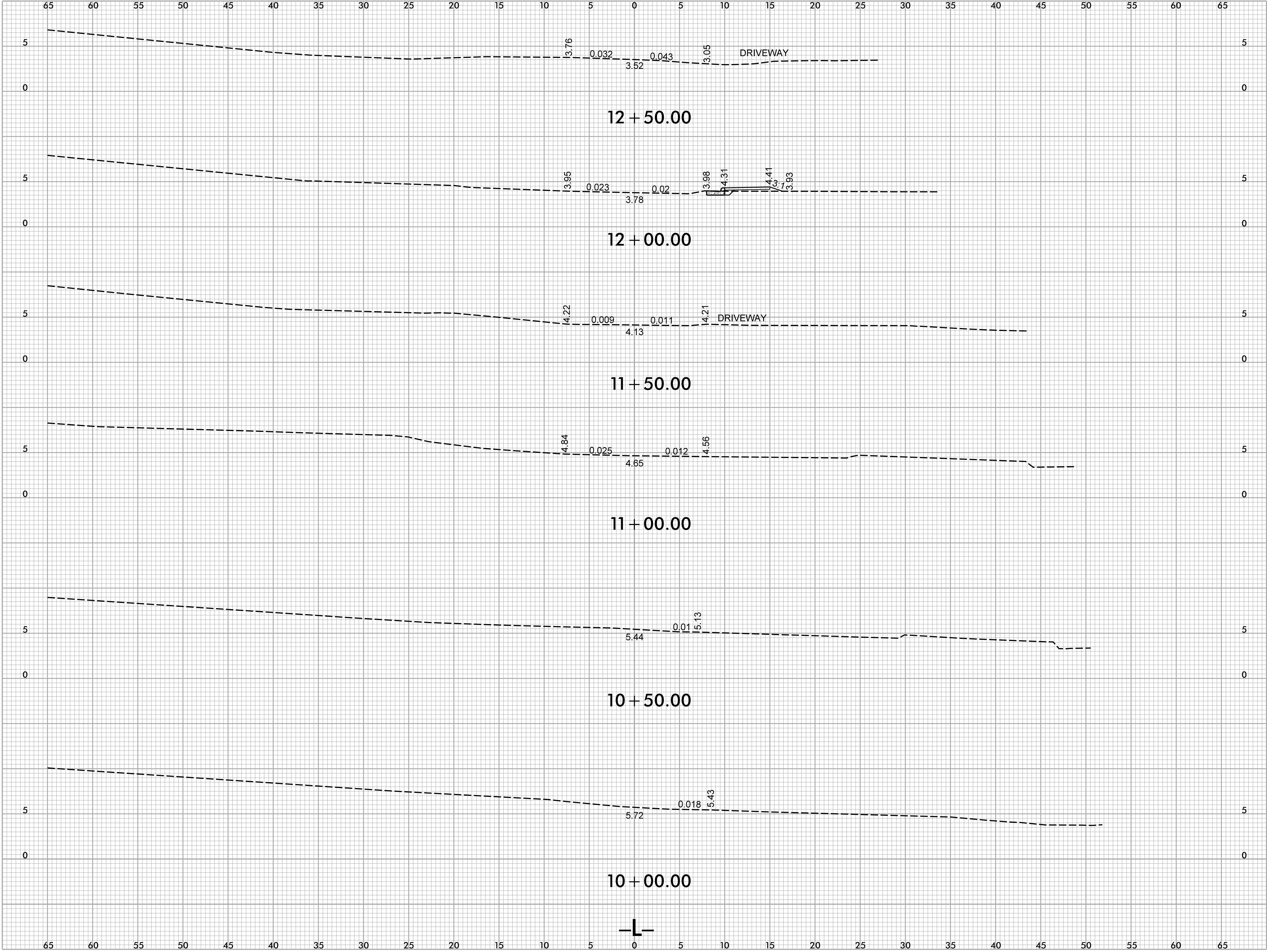
PRELIMINARY
NOT APPROVED
FOR CONSTRUCTION
A. KALL

INITIAL PLAN DATE:
REVISIONS:

WR JOB NUMBER 02220730
DRN: WR DGN: WR CKD: WR

TERRACED
BIORETENTION





WR JOB NO.	DATE
220730.00	04/28/2023
DRN: WR	DGN: WR
CKD: WR	

WATER STREET
CROSS SECTIONS

X-1

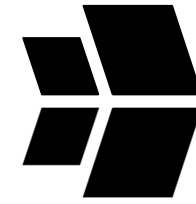


CONSTRUCTION DRAWINGS

WATER STREET DRAINAGE IMPROVEMENTS

WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

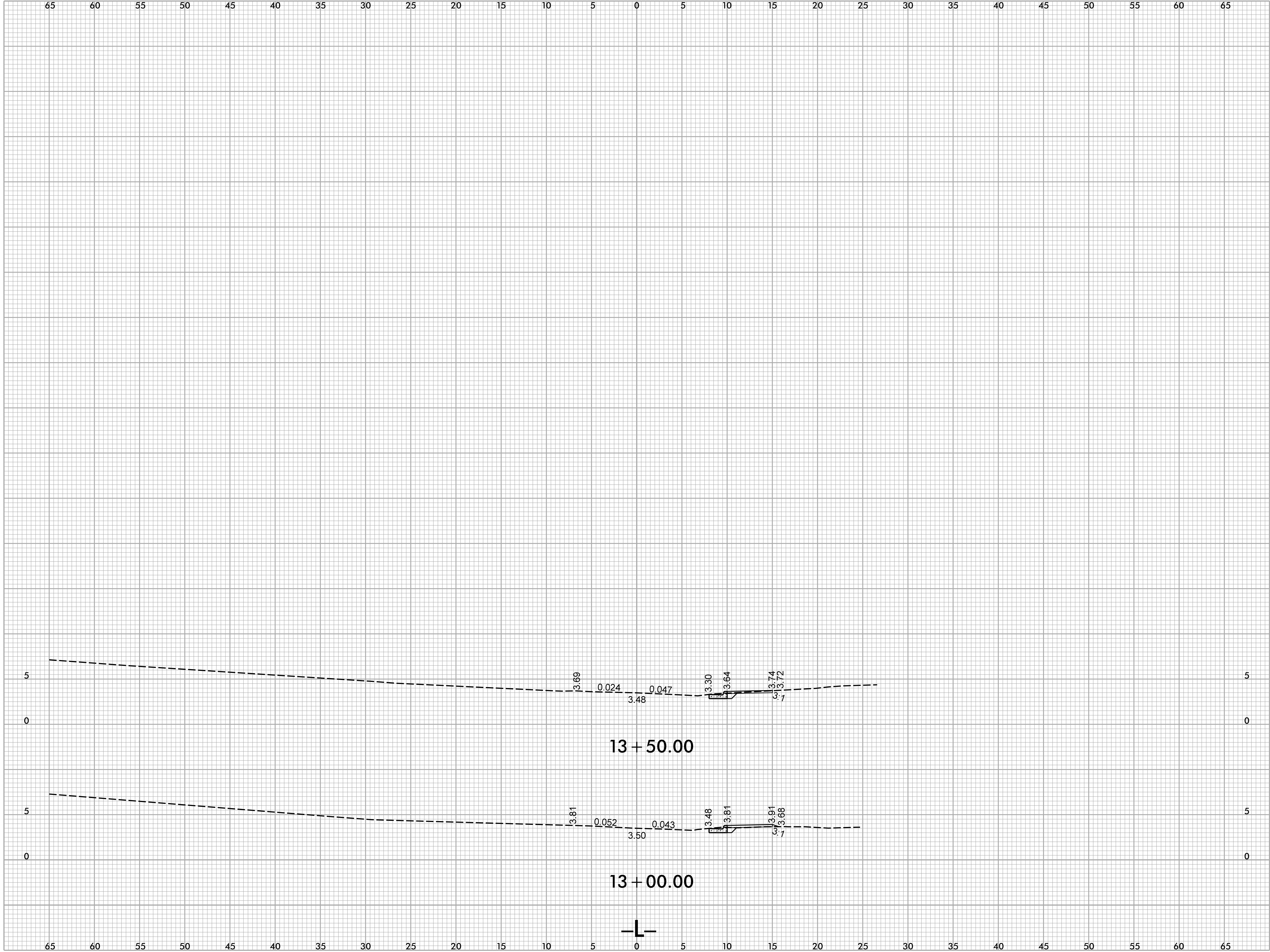
TOWN OF SWANSBORO
SWANSEA DRIVE
SWANSBORO, NC 28584



WithersRavenel
115 McKean Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

our people • your success

K:\22\220730\220730-Swansboro Water St Drainage Improvements\CAD\DWG\XCDT\WAS-XS Bldgs.dgn - DPTW



WR JOB NO.	DATE
220730.00	04/28/2023
DRN: WR	DGN: WR CKD: WR

WATER STREET
CROSS SECTIONS

X-2

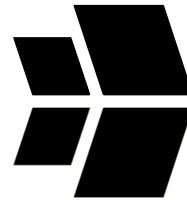


CONSTRUCTION DRAWINGS

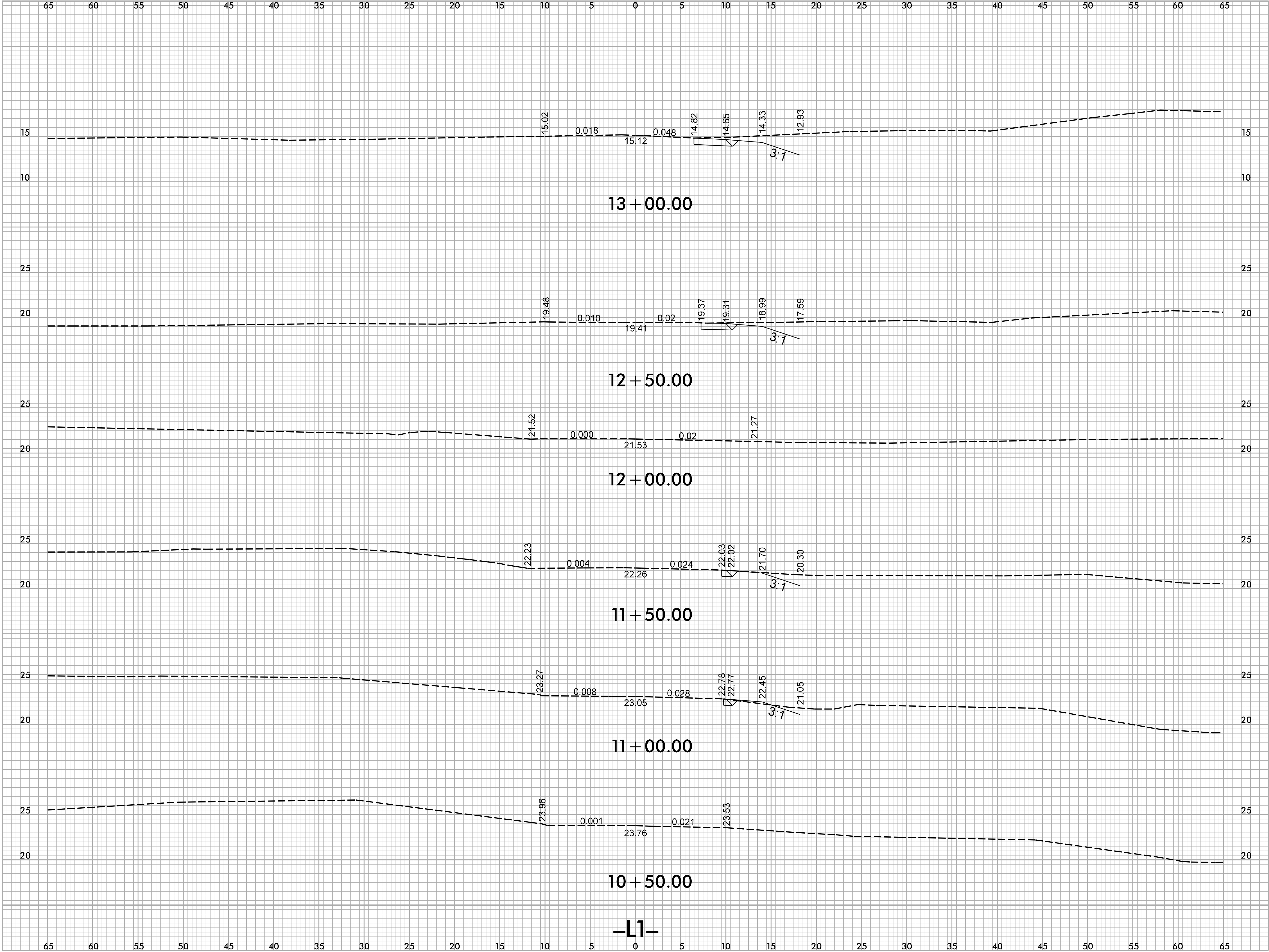
WATER STREET DRAINAGE IMPROVEMENTS

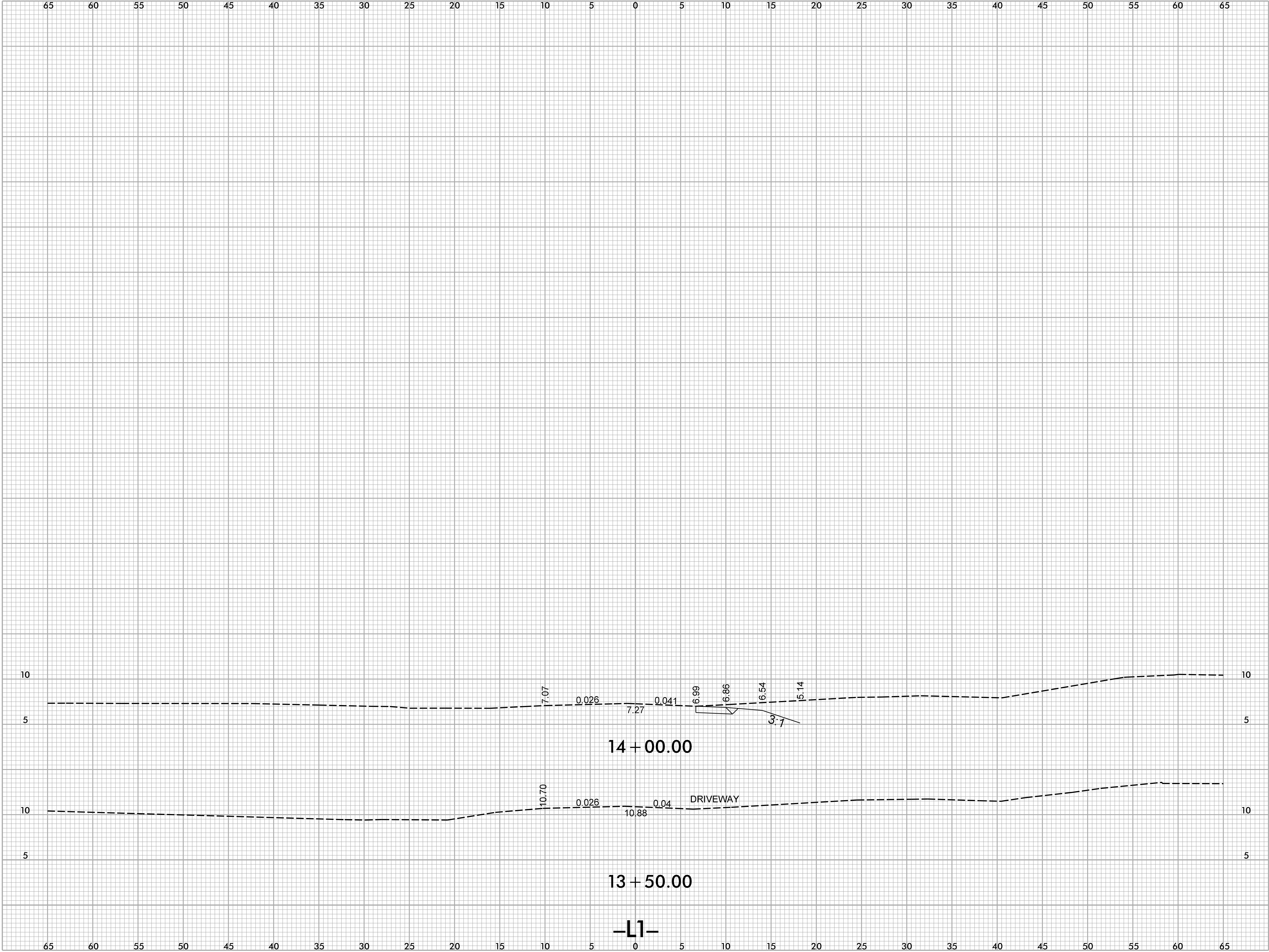
WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW
COUNTY

TOWN OF SWANSBORO
SWAN CREEK VALLEY
SWANSBORO, NC 28584



WithersRavenel
115 McKean Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com





TOWN OF SWANSBORO
SWANSEA BLVD
SWANSBORO, NC 28584

CONSTRUCTION DRAWINGS

WATER STREET DRAINAGE IMPROVEMENTS

WATER STREET | SWANSBORO, NORTH CAROLINA | ONSLOW COUNTY

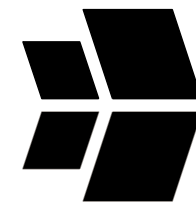


INITIAL PLAN DATE:
REVISIONS:

WR JOB NO.	DATE
220730.00	04/28/2023
DRN: WR	DGN: WR CKD: WR

BROAD STREET
CROSS SECTIONS

X-4



WithersRavenel
115 McKean Drive | Cary, NC 27511
License #: F-1479 | t: 919.469.3340 | www.withersravenel.com

our people • your success