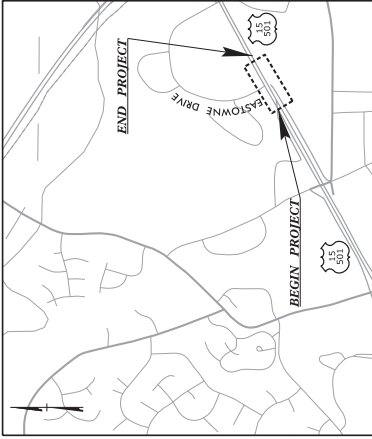


See Sheet 1B For Conventional Symbols



VICINITY MAP
N.T.S.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

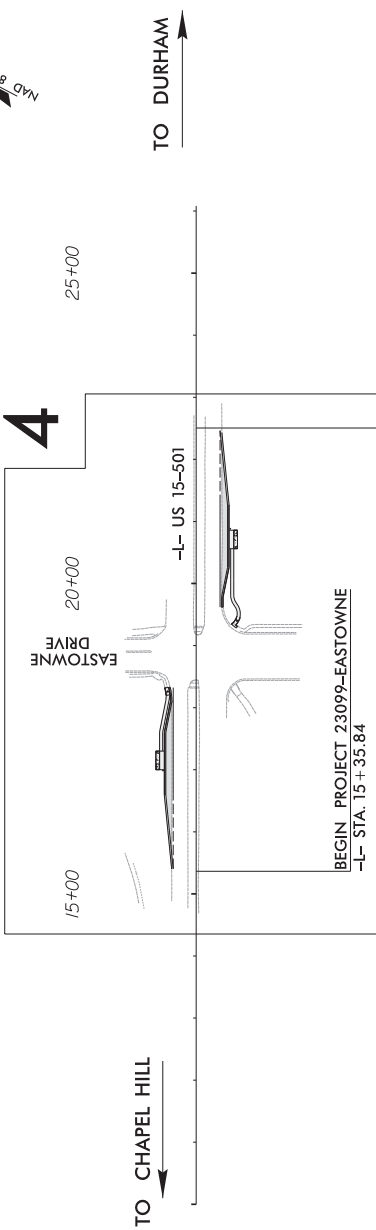
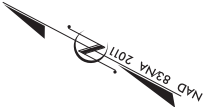
ORANGE COUNTY

LOCATION: US 15-501 & EASTOWNE DRIVE INTERSECTION

TYPE OF WORK: GRADING, PAVING, CURB & GUTTER,
SIDEWALK, & DRAINAGE

INDEX OF SHEETS	
TITLE SHEET	GENERAL NOTES & STANDARDS
1	CONVENTIONAL SYMBOLS
1A	TYPICAL SECTION
1B	ROADWAY DETAILS
2A-1	DRAINAGE DETAILS
2B	ROADWAY SUMMARY SHEET
2D	ROADWAY PLAN SHEET
3D-1	TRAFFIC CONTROL PHASING NOTES
4	PAVEMENT MARKING & SIGNING PLANS
TMP-1A THRU TMP-2	EROSION CONTROL PLANS
PMP-1 THRU PMP-2	CROSS SECTIONS
EC-1 THRU EC-5	
X-1 THRU X-6	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



- NOTES:
- CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II SHOWN ON NCDOT RSD 200.02.
 - EXISTING CONDITIONS SURVEY PERFORMED BY CES.
 - ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH CURRENT TOWN OF CHAPEL HILL AND/OR NCDOT STANDARDS.

GRAPHIC SCALES

30 15 0 30 60
PLANS

DESIGN DATA

ADT 2019 = 44,000
V = 50 MPH

PROJECT LENGTH

LENGTH ROADWAY PROJECT 23099 EASTOWNE DRIVE = 0.134 MILES

GOYTRIANGLE CONTACT: BOING VANG
SENIOR ENGINEER - CAPITAL DEVELOPMENT
(919)485-7557

NCDOT CONTACT: CHUCK EDWARDS, PE
DISTRICT ENGINEER
(336)570-4833

Prepared In the Office of:

DRMP
DESIGN REVIEW MANAGEMENT PROGRAM
DESIGN REVIEW MANAGER: J. L. BARNES, PE
DESIGN REVIEW MANAGER: J. L. BARNES, PE
DESIGN REVIEW MANAGER: J. L. BARNES, PE

BENJAMIN R. LENNON, PE
PROJECT ENGINEER

ERIC ALSAUGH
PROJECT DESIGNER

HYDRAULICS ENGINEER

Professional Engineer
No. 58416
Exp. 12/31/2025

ROADWAY DESIGN ENGINEER

Professional Engineer
No. 037438
Exp. 12/31/2025



PROJECT: 23099 EASTOWNE

INDEX OF SHEETS, GENERAL NOTES AND
2024 ROADWAY ENGLISH STANDARD DRAWINGS

GENERAL NOTES	2024 SPECIFICATIONS	EFF. 01-16-2024
SUBSURFACE PLANS:		
NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.		
CURB RAMPS:		
CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS IN ACCORDANCE WITH STD. 848.06.		

GRADING AND SURFACING OR RESURFACING AND WIDENING:	NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.	
	THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED	

CURB RAMPS:

SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS, WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN, DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS IN ACCORDANCE WITH STD. 848.06.

CLEARING:	CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD IIMETHOD IIIMODIFIED METHOD III.
-----------	--

SIDE ROADS:	SUBSURFACE PLANS:	
THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.		

200.02	METHOD OF CLEARING – METHOD II	840.02	CONCRETE CATCH BASIN – 12" THRU 54" PIPE
DIVISION 3 – PIPE CULVERTS	METHOD OF PIPE INSTALLATION	840.03	FRAME, GRATES AND HOOD – FOR USE ON STANDARD CATCH BASIN
		840.14	CONCRETE DROP INLET – 12" THRU 30" PIPE
		840.16	DROP INLET FRAME AND GRATES – FOR USE WITH STD. DWG. 840.14 AND 840.15
DIVISION 5 – SUBRADE, BASES, AND SHOULDERS	METHOD OF SHOULDER CONSTRUCTION – HIGH SIDE OF SUPERELEVATED CURVE – METHOD I	840.25	ANCHORAGE FOR FRAMES – BRICK OR CONCRETE OR PRECAST
		840.31	CONCRETE JUNCTION BOX – 12" THRU 66" PIPE
		840.45	PRECAST DRAINAGE STRUCTURE
DIVISION 6 – ASPHALT BASES AND PAVEMENTS	PAVEMENT REPAIRS	840.52	PRECAST MANHOLE – 4', 5', AND 6' DIAMETER 12" THRU 48" PIPE
		840.53	PRECAST MANHOLE WITH MASONRY BASE – 12" THRU 42" PIPE
		840.54	MANHOLE FRAME AND COVER
654.01	PAVEMENT REPAIRS	840.55	MANHOLE FRAME AND COVER (FLUSH WITH SLAB FOR OPEN THROAT CATCH BASIN)
		840.66	DRAINAGE STRUCTURE STEPS
		840.72	PIPE COLLAR
848.01	CONCRETE SIDEWALK	846.01	CONCRETE CURB, GUTTER, AND CURB & GUTTER
		848.01	CONCRETE SIDEWALK
		848.06	CURB RAMP

2024 ROADWAY ENGLISH STANDARD DRAWINGS	EFF. 01-16-2024
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" CONTRACTS STANDARDS AND DEVELOPEMENT UNIT – N.C. DEPARTMENT OF TRANSPORTATION – RALEIGH, N.C., DATED JANUARY 16, 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:	

STD. NO.	TITLE
DIVISION 2 – EARTHWORK	DIVISION 8 – INCIDENTALS

200.02	METHOD OF CLEARING – METHOD II	840.02	CONCRETE CATCH BASIN – 12" THRU 54" PIPE
DIVISION 3 – PIPE CULVERTS	METHOD OF PIPE INSTALLATION	840.03	FRAME, GRATES AND HOOD – FOR USE ON STANDARD CATCH BASIN
		840.14	CONCRETE DROP INLET – 12" THRU 30" PIPE
		840.16	DROP INLET FRAME AND GRATES – FOR USE WITH STD. DWG. 840.14 AND 840.15
DIVISION 5 – SUBRADE, BASES, AND SHOULDERS	METHOD OF SHOULDER CONSTRUCTION – HIGH SIDE OF SUPERELEVATED CURVE – METHOD I	840.25	ANCHORAGE FOR FRAMES – BRICK OR CONCRETE OR PRECAST
		840.31	CONCRETE JUNCTION BOX – 12" THRU 66" PIPE
		840.45	PRECAST DRAINAGE STRUCTURE
DIVISION 6 – ASPHALT BASES AND PAVEMENTS	PAVEMENT REPAIRS	840.52	PRECAST MANHOLE – 4', 5', AND 6' DIAMETER 12" THRU 48" PIPE
		840.53	PRECAST MANHOLE WITH MASONRY BASE – 12" THRU 42" PIPE
		840.54	MANHOLE FRAME AND COVER
654.01	PAVEMENT REPAIRS	840.55	MANHOLE FRAME AND COVER (FLUSH WITH SLAB FOR OPEN THROAT CATCH BASIN)
		840.66	DRAINAGE STRUCTURE STEPS
		840.72	PIPE COLLAR
848.01	CONCRETE SIDEWALK	846.01	CONCRETE CURB, GUTTER, AND CURB & GUTTER
		848.01	CONCRETE SIDEWALK
		848.06	CURB RAMP

PROJECT REFERENCE NO.
23079

ROADWAY DESIGN
ENGINEER

1A

PAVEMENT DESIGN
ENGINEER

037438

SEA

03/16/2024

DRMP

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

DRMP

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line _____
 County Line _____
 Township Line _____
 City Line _____
 Reservation Line _____
 Property Line _____
 Existing Iron Pin (IP) _____
 Computed Property Corner _____
 Existing Concrete Monument (ECM) _____
 Parcel/Sequence Number _____
 Existing Fence Line _____
 Proposed Woven Wire Fence _____
 Proposed Chain Link Fence _____
 Proposed Barbed Wire Fence _____
 Existing Welland Boundary _____
 Proposed Welland 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 UG Tank Cap _____
 Sign _____
 Well _____
 Small Mine _____
 Foundation _____
 Area Outline _____
 Cemetery _____
 Building _____
 School _____
 Church _____
 Other _____

HYDROLOGY:

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

RAILROADS:

Standard Gauge _____	RR Signal Milepost _____
Switch _____	RR Abandoned _____
RR Dismantled _____	RR Right of Way & Project Control _____
Primary Horiz Control Point _____	Primary Horiz and Vert Control Point _____
Secondary Horiz and Vert Control Point _____	Vertical Benchmark _____
Existing Right of Way Monument _____	Proposed Right of Way Monument (Rebar and Cap) _____
Proposed Right of Way Monument (Concrete) _____	Existing Permanent Easement Monument _____
Proposed Permanent Easement Monument (Rebar and Cap) _____	Existing C/A Monument _____
Proposed C/A Monument (Rebar and Cap) _____	Proposed C/A Monument (Concrete) _____
Existing Right of Way Line _____	Proposed Right of Way Line _____
Existing Control of Access Line _____	Proposed Control of Access Line _____
Proposed ROW and CA Line _____	Existing Easement Line _____
Proposed Temporary Construction Easement _____	Proposed Temporary Drainage Easement _____
Proposed Permanent Drainage Easement _____	Proposed Permanent Drainage/Utility Easement _____
Proposed Permanent Utility Easement _____	Proposed Temporary Utility Easement _____
Proposed 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 Guidrail _____
Proposed Cable Guidrail _____
Equality Symbol _____
Pavement Removal _____

VEGETATION:
Single Tree _____
Single Shrub _____
Hedge _____

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

RAILROADS:

Standard Gauge _____

RR Signal Milepost _____

Switch _____

RR Abandoned _____

RR Dismissed _____

CST TRANSPORTATION

MILEPOST 35

SWITCH

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	_____
Primary Horiz and Vert Control Point	_____
Secondary Horiz and Vert Control Point	_____
Vertical Benchmark	_____
Existing Right of Way Monument	_____
Proposed Right of Way Monument (Rebar and Cap)	_____
Proposed Right of Way Monument (Concrete)	_____
Existing Permanent Easement Monument	_____
Proposed Permanent Easement Monument (Rebar and Cap)	_____
Existing C/A Monument	_____
Proposed C/A Monument (Rebar and Cap)	_____
Proposed C/A Monument (Concrete)	_____
Existing Right of Way Line	_____
Proposed Right of Way Line	_____
Existing Control of Access Line	_____
Proposed Control of Access Line	_____
Proposed ROW and CA Line	_____
Existing Easement Line	_____
Proposed Temporary Construction Easement	_____
Proposed Temporary Drainage Easement	_____
Proposed Permanent Drainage Easement	_____
Proposed Permanent Drainage/Utility Easement	_____
Proposed Permanent Utility Easement	_____
Proposed Temporary Utility Easement	_____
Proposed 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 Guidrail _____
Proposed Cable Guidrail _____
Equality Symbol _____
Pavement Removal _____

VEGETATION:
Single Tree _____
Single Shrub _____
Hedge _____

RAILROADS:

Woods Line _____

Orchard _____

Vineyard _____

EXISTING STRUCTURES:

MAJOR:



Vineyard

EXISTING STRUCTURES:

MAJOR:

RIGHT OF WAY & PROJECT CONTROL:

MINOR: Bridge Wing Wall, Head Wall and End Wall — 

Head and End Wall — 

Pipe Culvert — 

Footbridge — 

Drainage Box, Catch Basin, DI or JB — 

Paved Ditch Gutter — 

Storm Sewer Manhole — 

Storm Sewer — 

UTILITIES:

- * SUE = Subsurface Utility Engineering
- LOS = Level of Service = A,B,C or D (Accuracy)

POWER:

UTILITIES:

* SUE – Subsurface Utility Engineering
LOS – Level of Service – A,B,C or D (Accuracy)
POWER:

POWER:

Existing Power Pole _____ 

Proposed Power Pole _____ 

Existing Joint Use Pole _____ 

Proposed Joint Use Pole _____ 

Power Manhole _____ 

Power Line Tower _____ 

Power Transformer _____ 

UG Power Cable Hand Hole _____ 

H-Frame Pole _____ 

UG Test Hole (SUE – LOS A)* _____ 

UG Power Line (SUE – LOS B)* _____ - - - - -

UG Power Line (SUE – LOS C)* _____ - - - - -

UG Power Line (SUE – LOS D)* _____ - - - - -

TELEPHONE: _____

TELEPHONE:

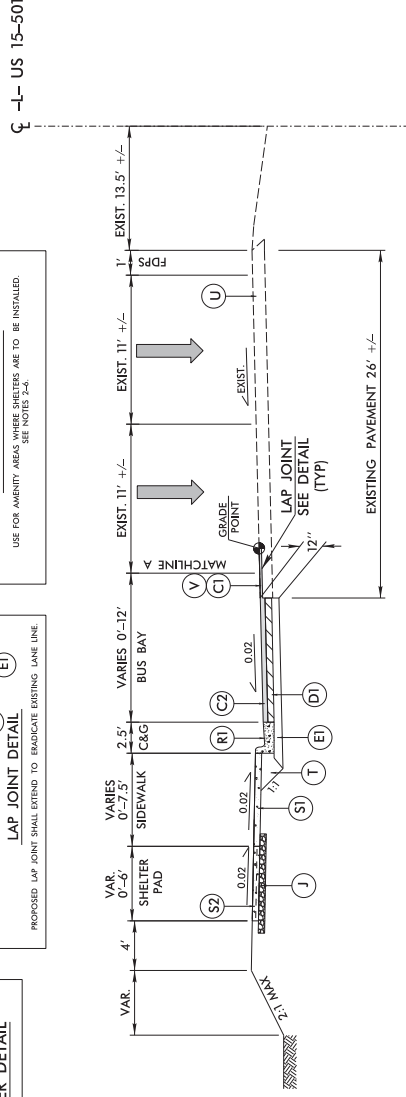
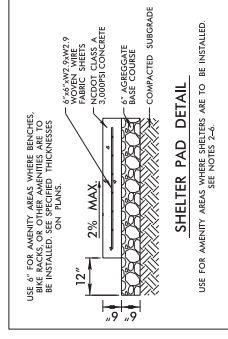
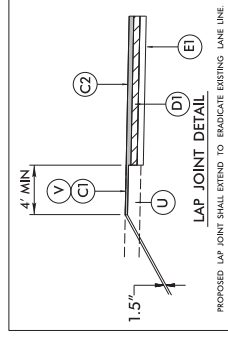
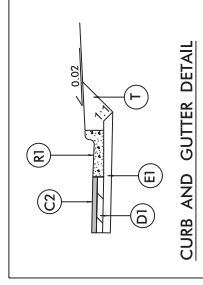
Existing Telephone Pole	_____	
Proposed Telephone Pole	_____	
Telephone Manhole	_____	
Telephone Pedestal	_____	
Telephone Call Tower	_____	
UG Telephone Cable Hand Hole	_____	
UG Telephone Test Hole (SUE – LOS A)*	_____	
UG Telephone Cable (SUE – LOS B)*	_____	
UG Telephone Cable (SUE – LOS C)*	_____	
UG Telephone Cable (SUE – LOS D)*	_____	
UG Telephone Conduit (SUE – LOS A)*	_____	
UG Telephone Conduit (SUE – LOS C)*	_____	
UG Telephone Conduit (SUE – LOS D)*	_____	
UG Fiber Optics Cable (SUE – LOS B)*	_____	
UG Fiber Optics Cable (SUE – LOS C)*	_____	
UG Fiber Optics Cable (SUE – LOS D)*	_____	

PROJECT REFERENCE NO.	23099	SHEET NO.	1B
PLANS PREPARED BY: DRMP DRMP INC. 10000 W. 10TH AVENUE SUITE 100 DENVER, CO 80231 PHONE: (303) 751-1115			

WATER:		Water Manhole _____	Ⓐ
Water Meter _____		□	
Water Valve _____		⊗	
Water Hydrant _____		⬠	
UG Water Line Test Hole (SUE – LOS A)* _____		⬤	
UG Water Line (SUE – LOS B)* _____		---	
UG Water Line (SUE – LOS C)* _____		---	
UG Water Line (SUE – LOS D)* _____		---	
Above Ground Water Line _____		A/G Water	
TV:			
TV Pedestal _____		□	
TV Tower _____		⊗	
UG TV Cable Hand Hole _____		⊞	
UG TV Test Hole (SUE – LOS A)* _____		⬤	
UG TV Cable (SUE – LOS B)* _____		---	
UG TV Cable (SUE – LOS C)* _____		---	
UG TV Cable (SUE – LOS D)* _____		---	
UG Fiber Optic Cable (SUE – LOS B)* _____		---	
UG Fiber Optic Cable (SUE – LOS C)* _____		---	
UG Fiber Optic Cable (SUE – LOS D)* _____		---	
GAS:			
Gas Valve _____		⬠	
Gas Meter _____		⬠	
UG Gas Line Test Hole (SUE – LOS A)* _____		⬤	
UG Gas Line (SUE – LOS B)* _____		---	
UG Gas Line (SUE – LOS C)* _____		---	
UG Gas Line (SUE – LOS D)* _____		---	
Above Ground Gas Line _____		A/G Gas	
SANITARY SEWER:			
Sanitary Sewer Manhole _____		⊞	
Sanitary Sewer Cleanout _____		⊞	
UG Sanitary Sewer Line _____		---	
Above Ground Sanitary Sewer _____		A/G Sanitary Sewer	
SS Force Main Line Test Hole (SUE – LOS A)* _____		⬤	
SS Force Main Line (SUE – LOS B)* _____		---	
SS Force Main Line (SUE – LOS C)* _____		---	
SS Force Main Line (SUE – LOS D)* _____		---	
MISCELLANEOUS:			
Utility Pole _____		●	
Utility Pole with Base _____		⬤	
Utility Located Object _____		□	
Utility Traffic Signal Box _____		⊞	
Utility Unknown UG Line (SUE – LOS B)* _____		---	
UG Tank; Water, Gas, Oil _____		⊞	
Underground Storage Tank, Approx. Loc. _____		⊞	
AG Tank; Water, Gas, Oil _____		⊞	
Geoenvironmental Boring _____		⬤	
Abandoned According to Utility Records _____		AATUR	
End of Information _____		EOI	

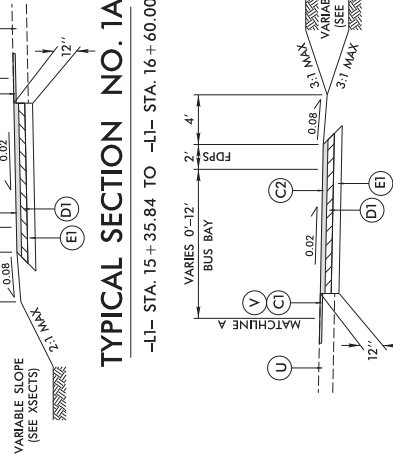
PAVEMENT SCHEDULE	
C1	PROP. VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER INCH
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
J	6" AGGREGATE BASE COURSE
R1	2'-6" CONCRETE CURB AND GUTTER (NCDOT 84B.01)
S1	4" CONCRETE SIDEWALK (NCDOT 84B.01)
S2	6" CONCRETE SHELTER PAD WITH WIRE FABRIC (SEE DETAIL)
T	COMPACTED EARTH MATERIAL
U	EXISTING PAVEMENT
V	1.5" MILLING

NOTES: 1. ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE SPECIFIED.
2. REINFORCE SHELTER PAD WITH WOVEN WIRE FABRIC SHEETS. WOVEN WIRE FABRIC SHEETS SHALL HAVE MINIMUM 6" OVERLAPS AND PLACED WITHIN 3" ON ALL SIDES.
3. EXTEND AGGREGATE BASE COURSE 12" BEYOND EDGE OF PAD IN ALL DIRECTIONS EXCEPT WHERE BORDERED BY EXISTING PAVEMENTS.
4. AGGREGATE BASE COURSE SHALL MEET NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
5. UNPAVED AGGREGATE BASE COURSE SHALL BE PROPERLY COMPACTED WITH PLATE TAMPERS PRIOR TO PLACING CONCRETE.
6. CROSS SLOPE OF AMENITY AREA PAVEMENTS SHALL BE A MAXIMUM OF 2% (1-5% RECOMMENDED) UNLESS OTHERWISE APPROVED, OR NOTED ON THE PLANS.



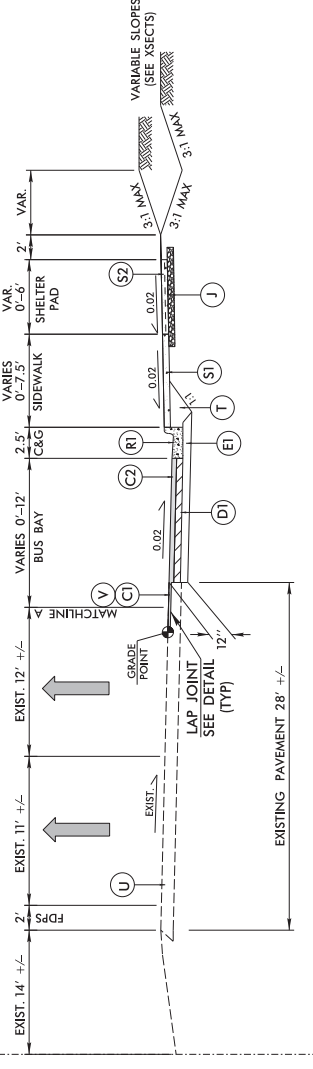
TYPICAL SECTION NO. 1

-11- STA. 16+60.00 TO -11- STA. 18+33.00



TYPICAL SECTION NO. 1A

-11- STA. 15+35.84 TO -11- STA. 16+60.00

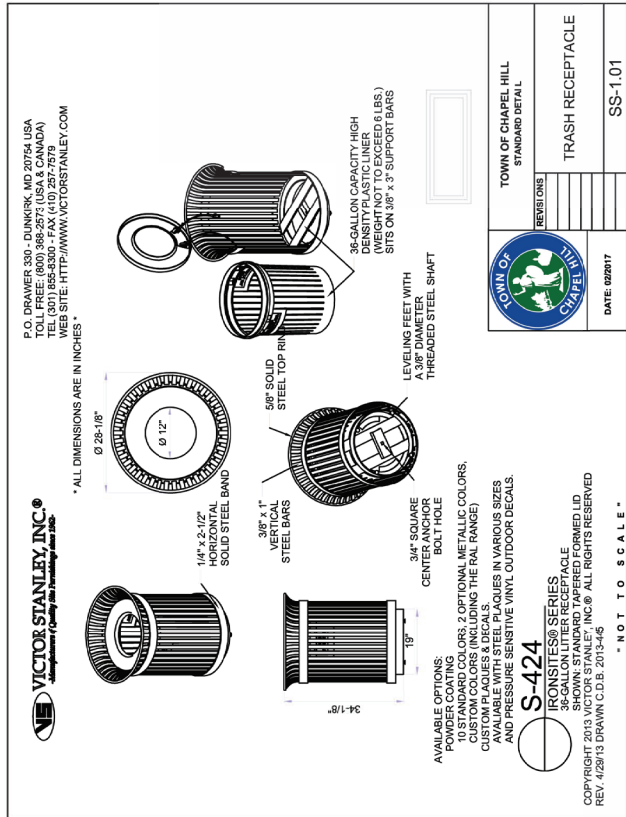
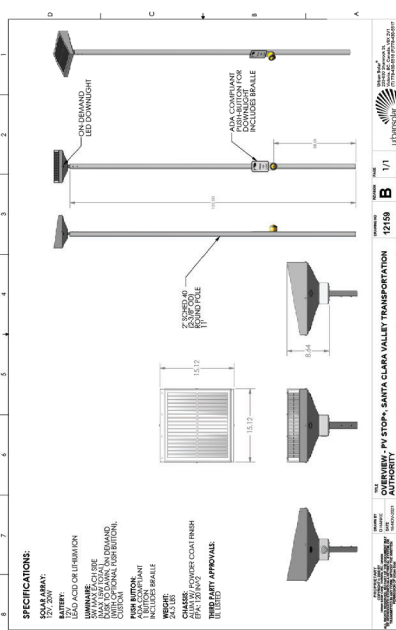
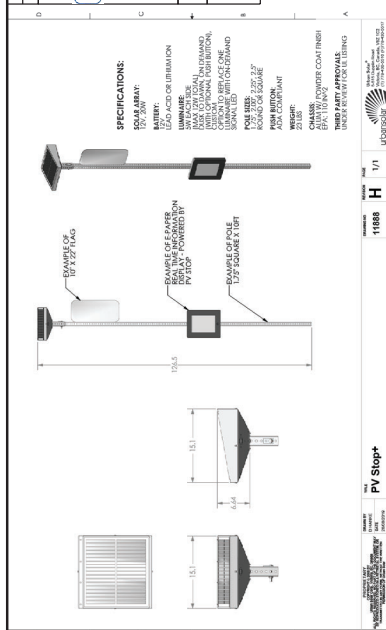
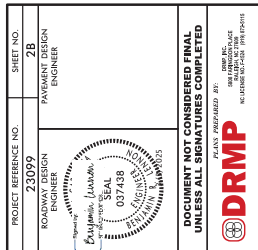
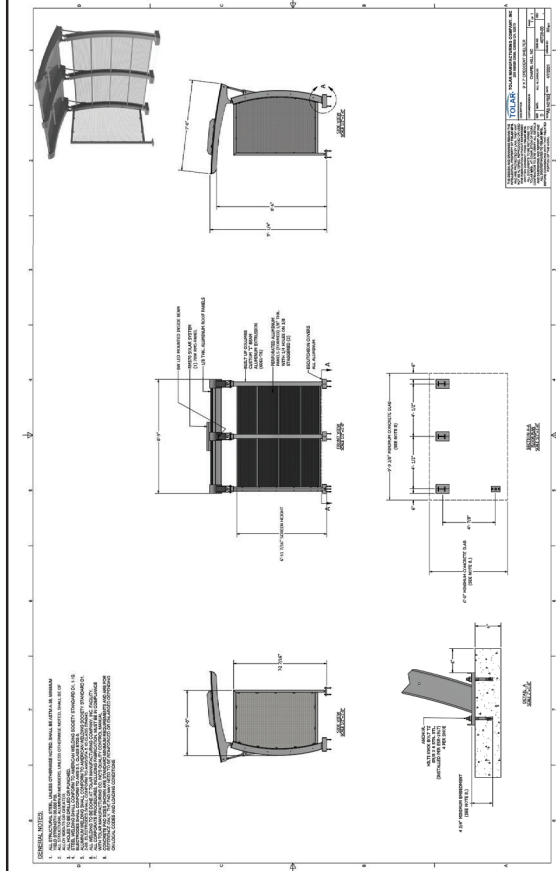


TYPICAL SECTION NO. 2A

-11- STA. 21+26.00 TO -11- STA. 22+46.92

TYPICAL SECTION NO. 2

-11- STA. 19+28.25 TO -11- STA. 21+26.00



PROJECT REFERENCE NO. 23099
HYDRAULICS ENGINEER

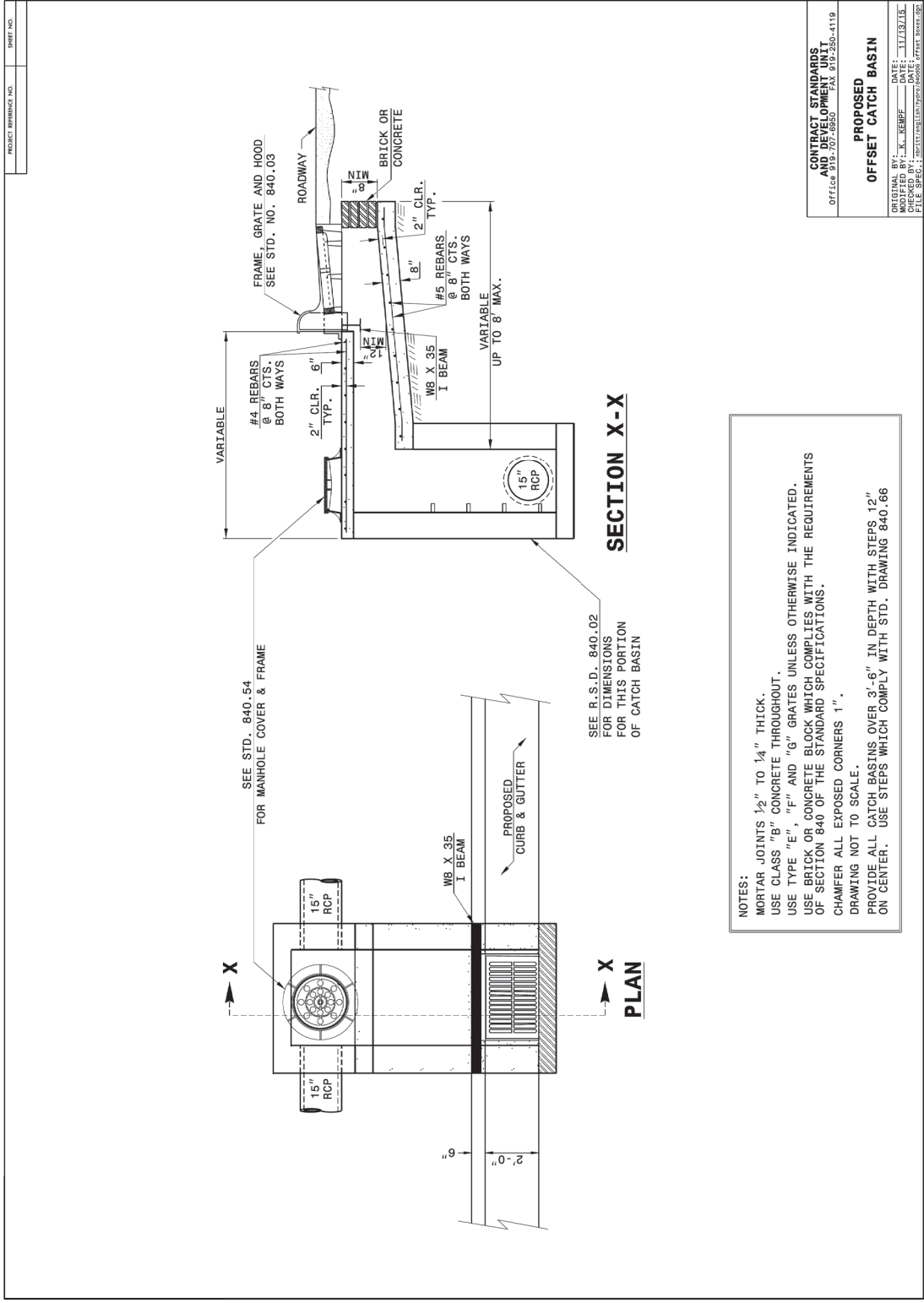
SHEET NO. 2D

Professional Seal
Professional Engineer
State of New York
No. 55416
Exp. 12/31/2025

DRMP
DRMP INC.
1000 ROUTE 90
SUITE 200
ROCKY HILL, CT 06067
(860) 261-1111
www.drmpinc.com

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PLANNED BY: DRMP INC.
DESIGNED BY: DRMP INC.
CHECKED BY: DRMP INC.
APPROVED BY: DRMP INC.



001.dgn

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

See "Standard Specifications For Roads and Structures, Section 300-5".

SHEET TOTALS

PROJECT TOTALS

1. EXISTING CONDITIONS SURVEY PERFORMED BY CES.
2. NO RIGHT-OF-WAY OR EASEMENTS HAVE BEEN ACQUIRED ON ADJACENT PROPERTIES. COMPLETE ALL WORK WITHIN EXISTING RIGHT-OF-WAY.
3. CONTRACTOR TO SAWCUT SMOOTH EDGE ALONG PROPOSED CURB & GUTTER LOCATIONS. SAWCUT SHOULD BE FULL DEPTH OF ASPHALT.



GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME
US 15-501
DAY AND TIME RESTRICTIONS
MONDAY-FRIDAY 6PM-6AM

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
US 15-501
HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M.- DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.

3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.

4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.

5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101-04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101-02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

I) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON US 15-501.

PROJ. REFERENCE NO. 22099	SHEET NO. TMP-1A
 DRMP NO. 100 DESIGNATED TRAFFIC CONTROL PERSONNEL MC NUMBER: 10-1048 10/17/13	

APPROVED:  DATE: 3/17/2015	SEAL 	STATE OF MISSOURI DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS
DOCUMENT NOT FOR CONSTRUCTION UNLESS ALL SIGNATURES COMPLETED		

GENERAL NOTES

PAVEMENT EDGE DROP OFF REQUIREMENTS

- K) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
- BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
 - BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
 - BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

- L) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- M) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

N) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (WB-1) 350FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

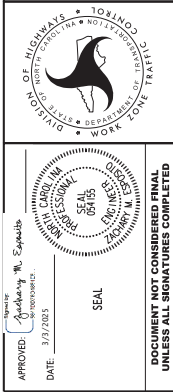
Q) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

R) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORRY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKERS
US 15-501	PAINT	NONE

- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- T) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

GENERAL NOTES



THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101-.01	WORK ZONE WARNING SIGNS
1101-.02	TEMPORARY LANE CLOSURES
1101-.04	TEMPORARY SHOULDER CLOSURES
1101-.11	TRAFFIC CONTROL DESIGN TABLES
1110-.01	STATIONARY WORK ZONE SIGNS
1110-.02	PORTABLE WORK ZONE SIGNS
1115-.01	FLASHING ARROW BOARDS
1130-.01	DRUMS
1180-.01	SKINNY - DRUMS
1205-.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205-.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205-.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205-.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

TRAFFIC MANAGEMENT STRATEGIES:

- LANE SHIFTS OR CLOSURES
- SHOULDER CLOSURES
- NIGHT WORK

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES (RSD 1101.01). FIELD VERIFY LOCATIONS WITH THE ENGINEER PRIOR TO INSTALLATION.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES, SCHOOLS, BUS STOPS, EMERGENCY SERVICES, AND BUSINESSES DURING THE LIFE OF THE CONTRACT, PRIOR TO INCORPORATION, OBTAIN WRITTEN APPROVAL FROM THE ENGINEER ON METHOD TO MAINTAIN ACCESS.

THE US 15-501 IMPROVEMENTS WILL BE CONSTRUCTED DURING THE NIGHT USING TEMPORARY TRAFFIC PATTERNS. TEMPORARY LANE AND SHOULDER CLOSURES WILL BE USED AS NECESSARY TO COMPLETE CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WORK IMPACTING THE INTERSECTION VEHICULAR AND PEDESTRIAN TRAFFIC. AT THE END OF EACH WORK PERIOD, DRUMS SHALL BE PULLED BACK TO THE EDGE OF PAVEMENT (EOP) AND TRAFFIC SHALL UTILIZE NORMAL CONDITIONS UNLESS OTHERWISE SPECIFIED.

TRAFFIC CONTROL NOTE:

THE ORDER OF PHASE I AND PHASE II CAN BE ADJUSTED IN THE FIELD, AS NEEDED. ONCE A PHASE HAS BEGUN, IT MUST BE COMPLETED PRIOR TO MOVING ON TO ANOTHER PHASE. PHASE III CAN ONLY BE STARTED AFTER THE COMPLETION OF PHASE I AND PHASE II CONSTRUCTION.

PHASING PLAN

PHASE I

STEP 1:

INSTALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01):

USING LANE CLOSURES, AS NEEDED, TO THE PHASE I TRAFFIC PATTERN. THE PHASE I TRAFFIC PATTERN ENTAILS CLOSING THE EASTBOUND OUTERMOST THROUGH LANE ALONG US 15-501 FROM 800' BEFORE THE INTERSECTION OF US 15-501 AND EASTWOME DRIVE TO 200' AFTER THE CONSTRUCTION LIMITS. US 15-501 EASTBOUND TRAFFIC WILL STILL BE ALLOWED INTO THE RIGHT TURN LANE FOR THE DURATION OF PHASE I. THIS IS AN EFFORT TO NOT IMPACT TURNING TRAFFIC ONTO THE SERVICE ROAD.

ONCE SHIFTED, BEHIND DRUMS, START AND FINISH PAVEMENT WIDENING, SIDEWALK AND BUS STOP IMPROVEMENTS ON EASTBOUND US 15-501.

PHASE II

STEP 1:

MAINTAIN ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01).

USING LANE CLOSURES, AS NEEDED, SHIFT TO THE PHASE II TRAFFIC PATTERN. PHASE II TRAFFIC PATTERN ENTAILS CLOSING THE WESTBOUND OUTERMOST THROUGH LANE ALONG US 15-501 FROM 800' BEFORE THE INTERSECTION OF US 15-501 AND EASTWANE DRIVE TO 200' AFTER THE CONSTRUCTION LIMITS. US 15-501 WESTBOUND TRAFFIC WILL STILL BE ALLOWED INTO THE RIGHT TURN LANE FOR THE DURATION OF PHASE II. THIS IS AN EFFORT TO NOT IMPACT TURNING TRAFFIC ONTO EASTWANE DRIVE.

ONCE SHIFTED, BEHIND DRUMS, START AND FINISH PAVEMENT WIDENING, SIDEWALK AND BUS STOP IMPROVEMENTS ON WESTBOUND US 15-501.

PHASE III

STEP 1:

MAINTAIN ALL NECESSARY WORK ZONE ADVANCE WARNING SIGNS (RSD 1101.01).

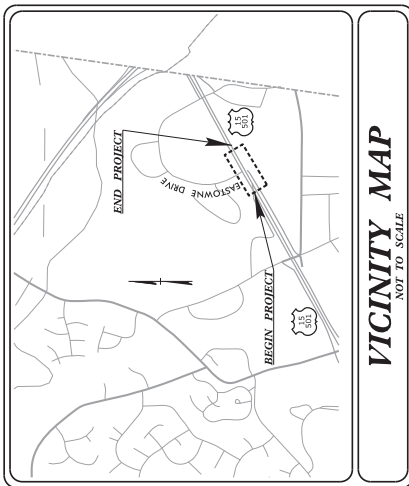
USING LANE CLOSURES, AS NEEDED, COMPLETE ANY REMAINING CONSTRUCTION, PLACE FINAL SURFACE COURSE AND INSTALL FINAL PAVEMENT MARKINGS AND MARKERS. SEE PAVEMENT MARKING PLANS FOR MORE DETAILS.

REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND ALLOW NORMAL TRAFFIC OPERATION.

APPROVED _____ <i>Anthony M. Espinoza</i> District Engineer	DATE: 3/1/2025	SEAL 	
TRANSPORTATION MANAGEMENT STRATEGIES AND PHASING PLAN			

DRMP, INC.,
3508 FARINGTON PLACE
RALEIGH, NC 27609
NC LICENSE NO. F-1524 (919) 872-5115

PROJECT: 23099



VICINITY MAP
NOT TO SCALE

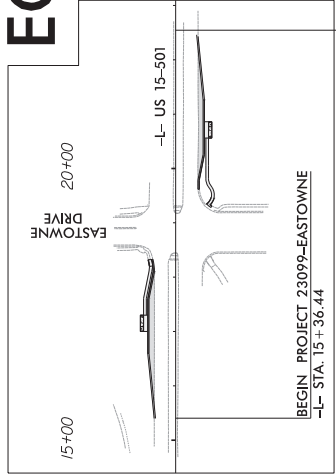
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

LOCATION: US 15-501 & EASTOWNE DRIVE INTERSECTION

TYPE OF WORK: GRADING, PAVING, CURB & GUTTER,
SIDEWALK, & DRAINAGE



EC-4, EC-5

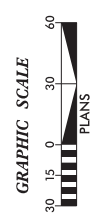


TO CHAPEL HILL

TO DURHAM

RECEIVING WATERS:
BOOKER CREEK
CLASS: WS-V;NSW
CAPE FEAR RIVER BASIN
DISTURBED AREA = 0.56 AC.

NOTES:
1. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II SHOWN ON NCDOT RSD 200.02.
2. EXISTING CONDITIONS SURVEY PERFORMED BY CES.
3. ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH CURRENT TOWN OF CHAPEL HILL AND/OR NCDOT STANDARDS.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE NCG 010000 GENERAL
STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH
CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION
OF ENERGY, MINERAL, AND LAND RESOURCES.



Prepared in the Office of:
DRMP, INC.
8210 UNIVERSITY EXECUTIVE PARK DR.
SUITE 220
CHARLOTTE, NC 28223
NC LICENSE NO. F-1334 704-519-4260

Designed by:
FORREST N. BROOKS
NAME
LEVEL III CERTIFICATION NO. 4039

Roadway Standard Drawings

The "Roadway Standard Drawings", Roadway Design Unit - N. C.
Department of Transportation - Raleigh, N. C., dated January 2024
and the latest revision thereto are applicable to this project and by
reference hereby are considered a part of these plans.

STATE	PROJECT NUMBER	PROJECT	DATE
N.C.	23099	EC-1	
PROJECT	PROJECT	PROJECT	PROJECT

THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.

THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.

BEFORE YOU DIG:
1-800-632-4949



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
23099	EC-1A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge good working order	Daily	Daily rainfall amounts, observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rainfall measurement for those unattended days (and for any individual-day rainfall measurements if recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Description of the measures inspected, location, and time of the inspection. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measure, location, and time of the inspection. 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected. 2. Name of the person performing the inspection. 3. Name of indicators of stormwater pollution such as oil, silt, debris, floating or suspended solids or discoloration. 4. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Description, evidence, and date of corrective actions taken, and the site limits. 2. An explanation as to the actions taken to control future sedimentation.
(5) Streams or wetlands onsite or offsite (if accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence, and date of corrective actions taken, and the site limits. 2. An explanation as to the actions taken to control future sedimentation.
(6) Ground stabilization measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	Records of the required reports to the appropriate Division. Records of the required reports to the appropriate Division. Records of the required reports to the appropriate Division.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART II, SECTION G, ITEM (4)

DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather) and shall be noted in the Inspection Record.

- Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:
- (a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved the items listed in (b) through (d) of this permit.
 - (b) The non-surface withdrawal has been approved by the Division, and the E&SC plan authority has provided documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur.
 - (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems.
 - (d) Vegetated upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in item (c) above.
 - (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
 - (f) Sediment removed from the dewatering treatment devices described in item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed in accordance with the approved E&SC plan, locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan, and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the installation of the E&SC measures or modification after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair of E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall maintain a record of observations on or off site for inspections performed by the permittee or a third party that includes all the required information. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) Documentation to be Retained for Three Years
All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

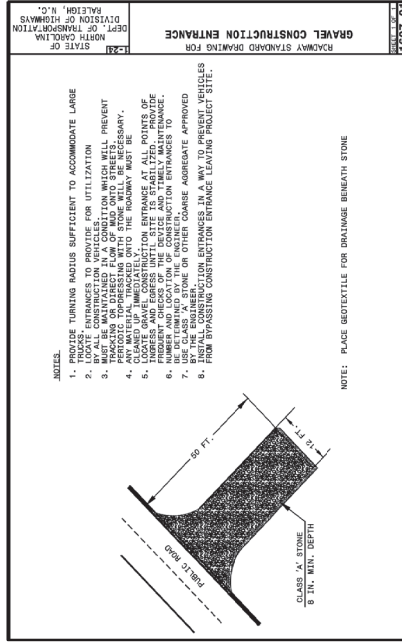
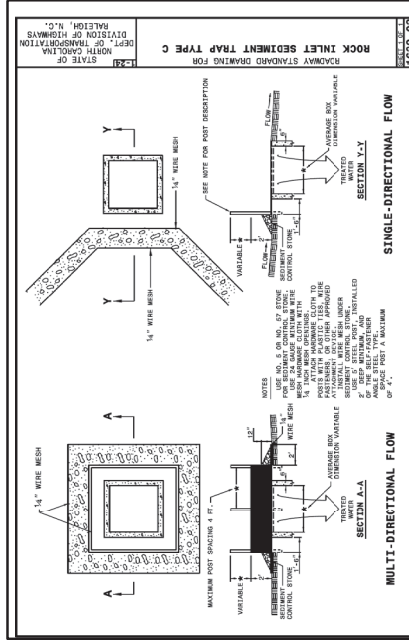
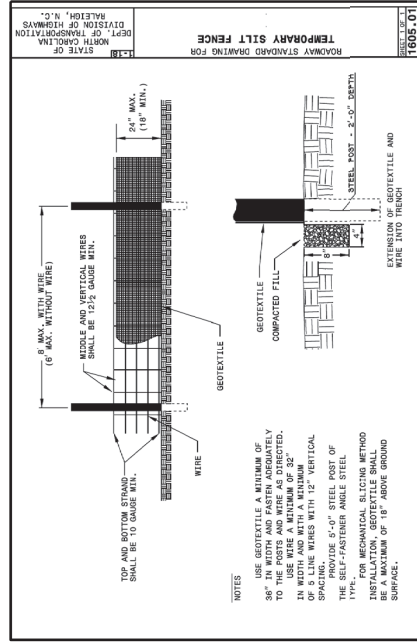
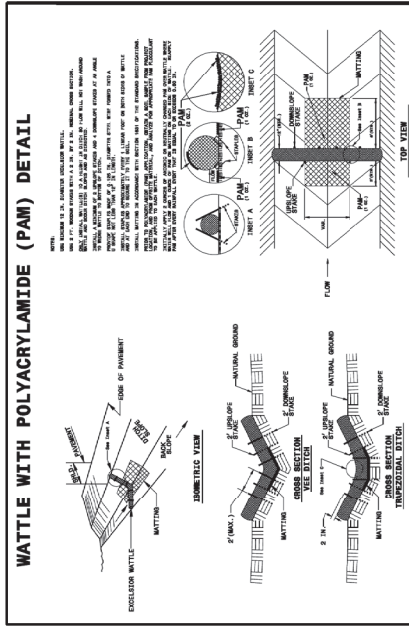
- (a) Visible sediment deposition in a stream or wetland.
 - (b) Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause silt on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (d) Anticipated bypasses and unanticipated bypasses.
- (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 838-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC-303(d) list as impaired for sediment-related problems, the permittee shall submit a written report to the Division within 7 calendar days. The report shall include information that will determine if additional requirements are needed to assure compliance with the federal or state impaired waters conditions.
(b) Oil spills and release of hazardous substances per item (b)(1)(C) above	• Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass. • Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(d) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(i)(7)]	• Within 24 hours, an oral or electronic notification. • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times; and if the noncompliance has not been corrected, the permittee shall submit a written report to the Division within 7 calendar days. The report shall include information that will determine if additional requirements are needed to assure compliance with the federal or state impaired waters conditions.

case-by-case basis.



MAINTENANCE NOTES

WATTLE

THE UPSTREAM SIDE OF THE WATTLE SHOULD BE MAINTAINED TO ALLOW THE WATER TO FLOW THROUGH, REDUCE VELOCITY, DISTRIBUTE FLOCCULANT AND ALLOW SEDIMENTATION TO OCCUR. THE DOWNSTREAM SIDE OF THE WATTLE SHOULD BE MAINTAINED TO ALLOW THE WATER TO FLOW THROUGH, REDUCE VELOCITY, DISTRIBUTE FLOCCULANT AND ALLOW SEDIMENTATION TO OCCUR. THE WATTLE SHOULD BE USED TO ANCHOR THE WATTLE ADEQUATELY TO THE GROUND TO PREVENT SCOURING AND WASHOUT DURING STORM EVENTS. THE EXCELSPUR PAD BENEATH THE WATTLE IS CRITICAL TO THE PROPER FUNCTIONING OF THE WATTLE.

TEMPORARY SILT FENCE

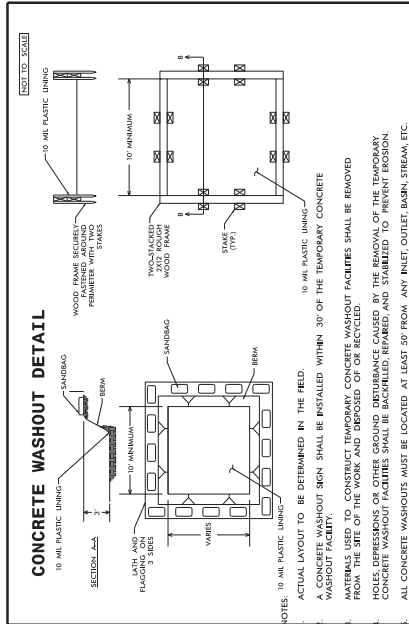
INSPECT THE SILT FENCE ON A REGULAR BASIS AND AFTER EACH SIGNIFICANT RAINFALL MAKE AN APPROPRIATE IMMEDIATELY INSPECT THE SILT FENCE TO BE SURE THE BOTTOM OF THE GEOTEXTILE IS KEPT IN PROPER POSITION AND DISPOSE OF ALL SILT ACCUMULATIONS WHEN DEPTH REACHES 12". THE HEIGHT OF THE GEOTEXTILE MUST NOT UNDERMINE THE FENCING OR CLEANOUT FOR DEPOSIT OF SEDIMENT BY HAULING IT TO AN APPROVED WASTE SITE WITH APPROPRIATE PERMITTER PROTECTION REMOVE AND REPLACE DETERIORATED OR CLOGGED SILT FENCE REPLACE SILT FENCE REMOVED FOR ACCESS AT EACH DAY'S OPERATION INSTAL ADDITIONAL POSTS OR WIRE BACKING IF FENCE IS SAGGING.

ROCK INLET SEDIMENT TRAP TYPE 'C'

INSPECT THE DEVICE AFTER EACH SIGNIFICANT RAINFALL EVENT FOR SEDIMENT ACCUMULATION AND PROPER FUNCTION. REMOVE SEDIMENT FROM THE DEVICE WHEN ACCUMULATIONS REACH ONE-HALF THE HEIGHT OF THE SEDIMENT CONTROL STONE. REPLACE OR CLEAN THE SEDIMENT CONTROL STONE AS NEEDED TO ALLOW WATER TO DRAIN THROUGH THE DEVICE. BETWEEN RAINFALL EVENTS, REBUILD AND/OR REPAIR THE DEVICE IF IT IS DAMAGED. IF THE DEVICE IS TO REMAIN AFTER PROJECT COMPLETION IT SHOULD BE CLEAN AND IN PROPER SHAPE AT THE TIME OF FINAL INSPECTION. IF IT IS REMOVED, ALL ACCUMULATED SILT SHOULD BE REMOVED TO KEEP IT FROM ENTERING THE DRAINAGE SYSTEM.

GRAVEL CONSTRUCTION ENTRANCE

THE GRAVEL CONSTRUCTION ENTRANCE MUST BE MAINTAINED IN A CONDITION TO PREVENT TRACKING OF MUD ONTO ADJACENT ROADWAYS. REPLACEMENT OF STONE MAY BE NECESSARY TO ENSURE THE GRAVEL ENTRANCE FUNCTIONS PROPERLY. REPLACEMENT OF STONE MAY BE NECESSARY. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE SHOULD BE COMPLETED. ANY MATERIAL TRACKED ONTO THE ROADWAY SHALL BE CLEANED UP IMMEDIATELY.



SPECIAL SEDIMENT CONTROL FENCE

ROCK PIPE INLET SEDIMENT TRAP TYPE 'B'

CONCRETE WASHOUT

TEMPORARY ROCK SILT CHECK TYPE 'A'

INSPECT ROCK CHECK AFTER EACH SIGNIFICANT RAINFALL. REMOVE SILT FROM DEVICE WHEN IT ACCUMULATES. REBUILD AND RESHAPE DEVICE AND WEIR WHEN DAMAGED OR AS NECESSARY. CLEANOUT WHEN CLOGGED BY STRAW, LIMBS OR OTHER DEBRIS.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

16333 01

16333 01

ROADWAY STANDARD SAWTINE FOR CLASS B EROSION CONTROL STONE

SECTION A-A

SECTION B-B

PLAN

STRUCTURAL STONE

BASEMENT CONTROL STONE

USE CLASS B EROSION CONTROL STONE FOR STRUCTURAL STONE

USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.

10 1/2\"/>

TYPE A

TYPE A

CLEARING AND GRUBBING PHASE

- NOTES:
1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES BEFORE CONSTRUCTION BEGINS AND MAINTAIN THROUGHOUT CONSTRUCTION.
 2. CONTRACTOR TO COORDINATE WITH ENGINEER IF FIELD CONDITIONS VARY FROM PLANS OR CONFLICTING EROSION CONTROL MEASURES ARE INSTALLED WITH THE ADJACENT SITE CONSTRUCTION.

DWIP PROJECT REFERENCE NO.
23099

SHEET NO.
EC-4

FORREST N. BROOKS, P.E.
LEVEL III NAME

Professional Seal
FORREST N. BROOKS, P.E.
EXPIRATION DATE
3/31/2025

4039

LEVEL III CERTIFICATION NO.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PLAN PREPARED BY:
DWIP INC.
DESIGNED BY:
DWIP INC.
CHECKED BY:
DWIP INC.
APPROVED BY:
DWIP INC.

**DRMP**

The figure is a detailed topographic map for a clearing and grubbing project. It features contour lines at 2-foot intervals, with major contours labeled every 10 feet (e.g., 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000). The map includes a north arrow pointing towards the upper right. A scale bar indicates a distance of 100 feet. The map shows a proposed road alignment with stationing from 15+00 to 20+00. The road is shown as a dashed line with a centerline and edge lines. The map also shows existing features such as a stream, a bridge, and a building. The map is titled 'CLEARING AND GRUBBING PHASE' and includes a list of notes. The map is prepared by DWIP INC. and is dated 3/2/2025.

REVISIONS

FINAL PHASE

- NOTE:
1. CONTRACTOR TO SHUT EXISTING EROSION CONTROL MEASURES DURING CONSTRUCTION TO MAINTAIN INLET PROTECTION AROUND THE EXISTING AND PROPOSED INLETS. WATER SHALL BE SHIFTER TO THE NEW DITCHLINE UNTIL EARTH IS STABILIZED.
 2. CONTRACTOR TO COORDINATE WITH ENGINEER IF FIELD CONDITIONS VARY FROM PLANS OF CONFLICTING EROSION CONTROL MEASURES ARE INSTALLED WITH THE ADJACENT SITE CONSTRUCTION.

DMP PROJECT REFERENCE NO.
23099

SHEET NO.
EC-5

FORREST N. BROOKS, P.E.
LEVEL III NAME

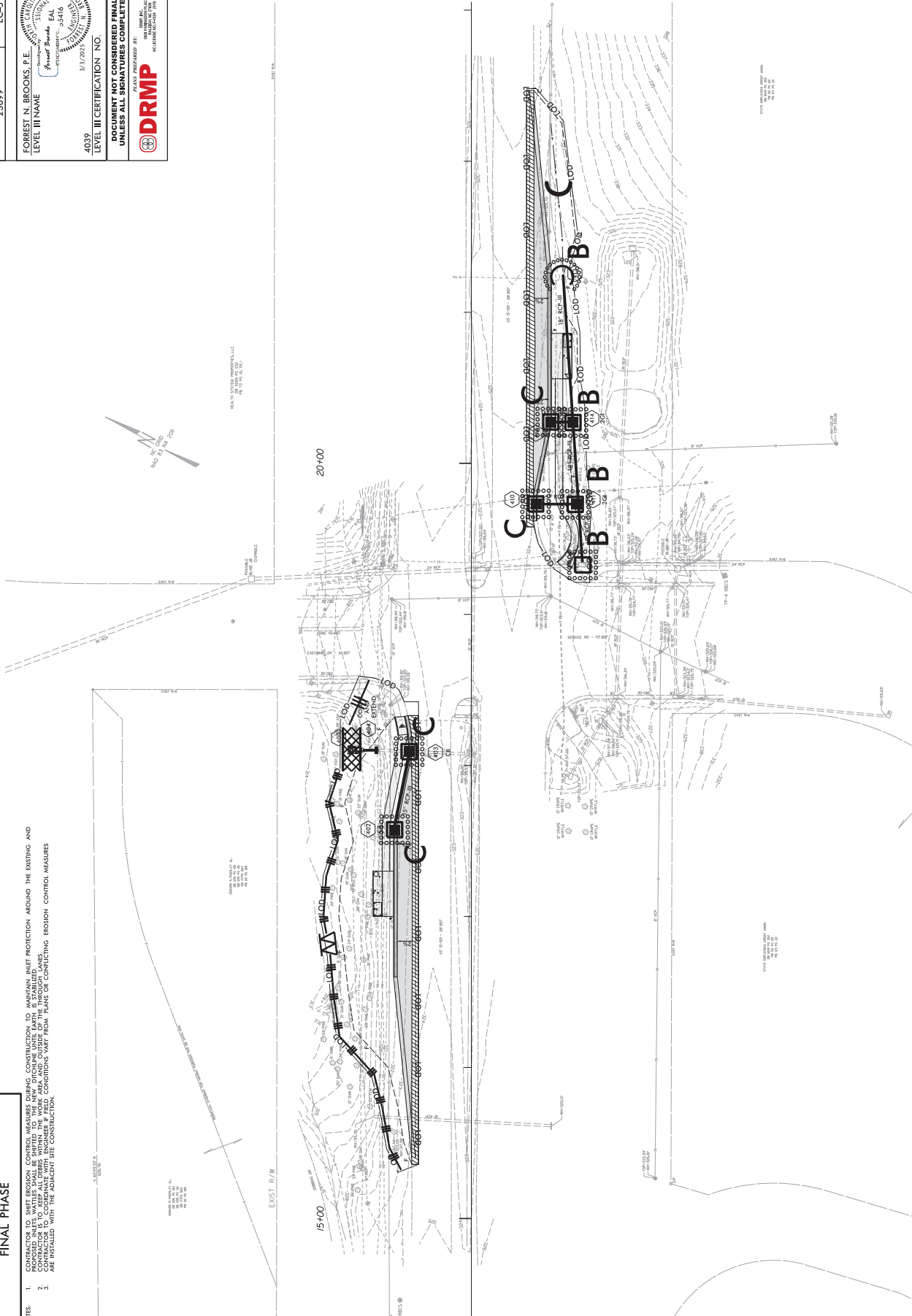


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LEVEL III CERTIFICATION NO.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

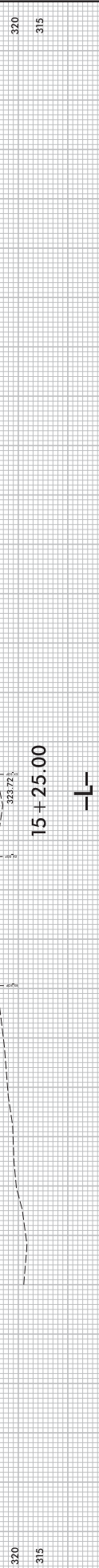
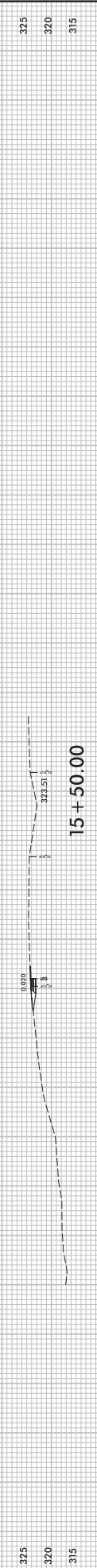
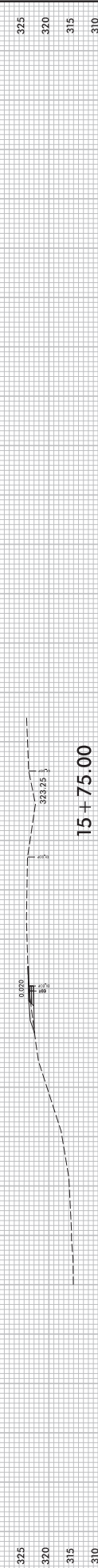
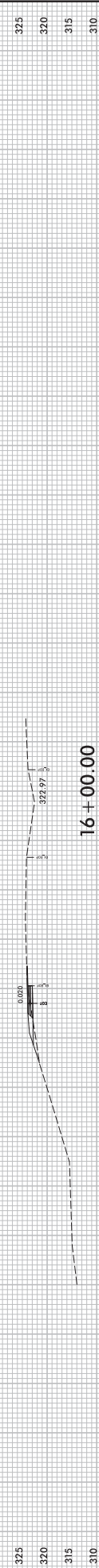
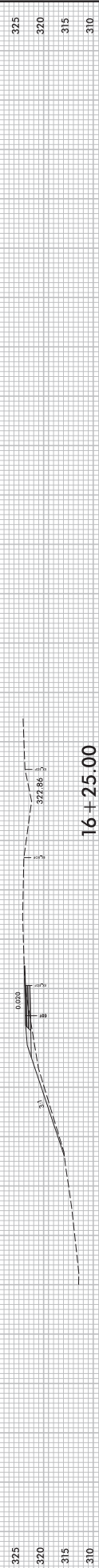
PLAN PREPARED BY:
DRMP INC.
10000 W. HARRIS BLVD.
SUITE 100
DURHAM, NC 27703

**DRMP**
DESIGN-REPAIR-MEASUREMENT
PRACTICES



REVISIONS

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