

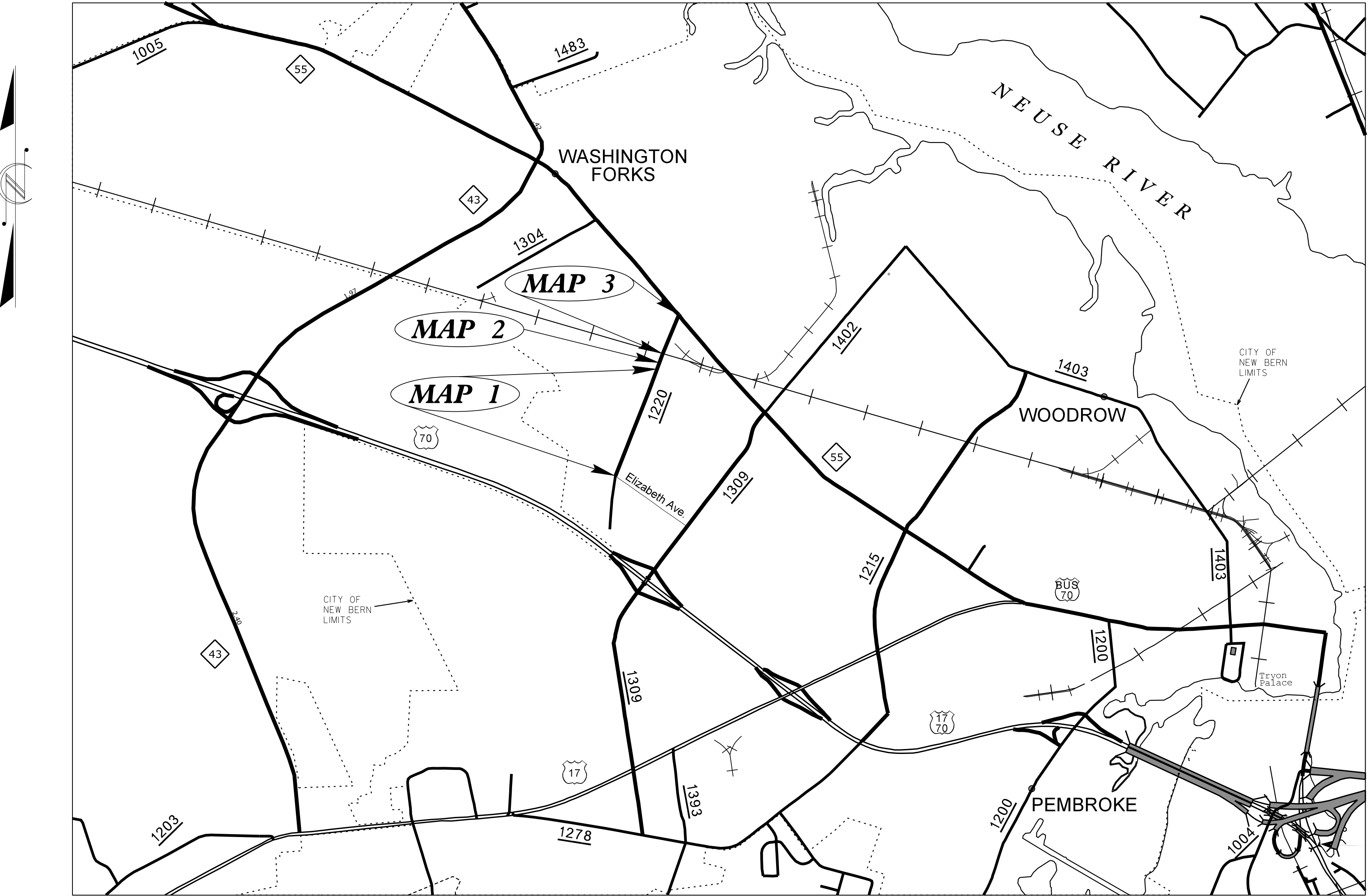


# RACETRACK ROAD

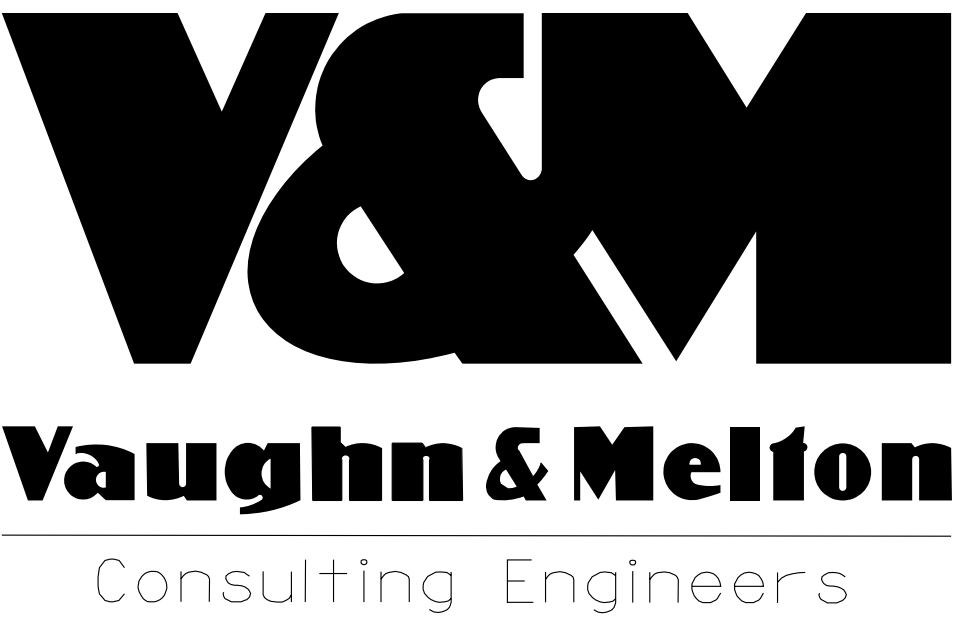
## ROADWAY IMPROVEMENTS - DESIGN OPTION 1B

FROM: ELIZABETH AVENUE  
TO: NEUSE BOULEVARD

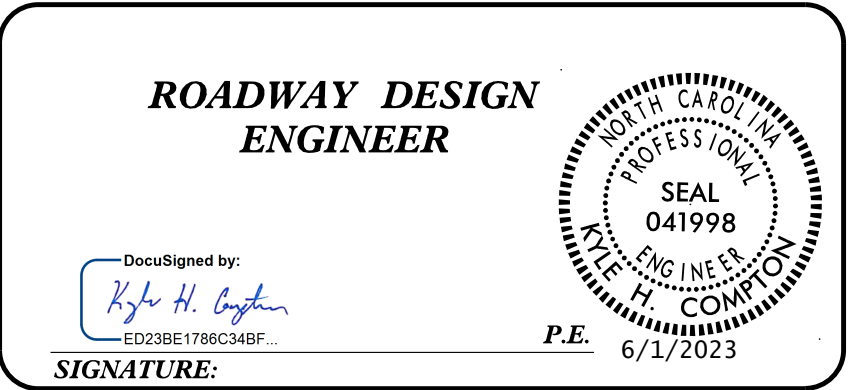
The base bid includes pavement repair, widening, leveling, resurfacing and pavement markings on Racetrack Road from Elizabeth Avenue to the railroad tracks. Alternate 1 includes replacement of a 36” reinforced concrete pipe with 2 @ 36”reinforced concrete pipes. Alternate 2 includes pavement repair, leveling, resurfacing and pavement markings on Racetrack Road from the railroad tracks to Neuse Boulevard.



Prepared in the Office of:



3115 TRENT ROAD  
NEW BERN, NC 28562  
252-631-5115



INDEX OF SHEETS		GENERAL NOTES:	2018 NCDOT SPECIFICATIONS	2018 NCDOT ROADWAY ENGLISH STANDARD DRAWINGS	EFF. 01-16-2018
			EFFECTIVE: 01-16-2018		
SH. NO.	SHEET	GRADING AND SURFACING OR RESURFACING AND WIDENING:			
1	TITLE SHEET	THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED 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.			
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS				
1B	CONVENTIONAL SYMBOLS				
2-3	PAVEMENT SCHEDULE AND TYPICAL SECTIONS	SHOULDER CONSTRUCTION:			
4	SUMMARY OF QUANTITIES	ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01 AND STD. NO. 560.02.			
5	ROADWAY DETAILS	SIDE ROADS:			
6	TRAFFIC CONTROL DETAILS	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.			
		DRIVEWAYS:			
		DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.			
		STREET TURNOUT:			
		STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.			
		UTILITIES:			
		UTILITY OWNERS ON THIS PROJECT ARE: CITY OF NEW BERN PIEDMONT NATURAL GAS METRONET FIBER OPTIC			
		RIGHT-OF-WAY MARKERS:			
		ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.			
		SURVEYS:			
		SURVEYS WERE SUPPLEMENTED (BY VAUGHN & MELTON) WITH GIS AND LIDAR INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATION, ORIENTATION, AND ELEVATION OF EXISTING UTILITIES AND OTHER SURVEY INFORMATION PRIOR TO BEGINNING CONSTRUCTION AND/OR ORDERING MATERIALS. VAUGHN & MELTON IS NOT RESPONSIBLE FOR THE ACCURACY OF THE SURVEY INFORMATION.			
		THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - N.C. DEPARTMENT OF TRANSPORTATION - REVISED JANUARY, 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:			
		STD.NO.	TITLE		
		DIVISION 2 - EARTHWORK			
		200.03	METHOD OF CLEARING - METHOD III		
		225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL		
		225.04	METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT		
		DIVISION 3 - PIPE CULVERTS			
		300.01	METHOD OF PIPE INSTALLATION		
		310.10	DRIVEWAY PIPE CONSTRUCTION		
		DIVISION 5 - SUBGRADE, BASES AND SHOULDERS			
		560.01	METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED		
		DIVISION 6 - ASPHALT BASES AND PAVEMENTS			
		654.01	PAVEMENT REPAIRS		
		DIVISION 8 - INCIDENTALS			
		838.01	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS		
		846.01	CONCRETE CURB, GUTTER AND CURB & GUTTER		
		848.02	DRIVEWAY TURNOUT - RADIUS TYPE		
		848.04	STREET TURNOUT		
		866.01	CHAIN LINK FENCE - 4", 5" AND 6" HIGH FENCE		
		876.02	GUIDE FOR RIP RAP AT PIPE OUTLETS		
		876.04	DRAINAGE DITCHES WITH CLASS "B" RIP RAP		
		DIVISION 9 - SIGNING			
		903.20	MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNS ON WOOD POSTS		
		904.10	ORIENTATION OF GROUND MOUNTED SIGNS		
		904.20	SECONDARY SIGN MOUNTING		
		904.30	SUPPLEMENTAL SIGN MOUNTING		
		904.50	MOUNTING OF TYPE 'D', 'E', AND 'F' SIGNS ON 'U' CHANNEL		
		910.20	SIGNING SCHOOL ZONE WITHOUT MARKED CROSSWALK WHEN		
		DIVISION 11 - WORK ZONE TRAFFIC CONTROL			
		1101.01	WORK ZONE ADVANCE WARNING SIGNS		
		1101.02	TEMPORARY LANE CLOSURES		
		1101.04	TEMPORARY SHOULDER CLOSURES		
		1101.05	WORK ZONE VEHICLE ACCESSES		
		1101.11	TRAFFIC CONTROL DESIGN TABLES		
		1110.01	STATIONARY WORK ZONE SIGNS		
		1110.02	PORTABLE WORK ZONE SIGNS		
		1130.01	DRUM		
		1135.01	CONES		
		1145.01	BARRICADES - TYPE III		
		1150.01	FLAGGING DEVICES		
		1180.01	SKINNY DRUM		
		DIVISION 12 - PAVEMENT MARKINGS, MARKERS, AND DELINEATION			
		1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS		
		1205.01	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED ROADWAYS		
		1205.01	PAVEMENT MARKINGS - INTERSECTIONS		
		1205.01	PAVEMENT MARKINGS - TURN LANES		
		1205.01	PAVEMENT MARKINGS - SYMBOL AND WORD MESSAGES		
		1205.01	PAVEMENT MARKINGS - PAINTED ISLANDS		
		1205.01	PAVEMENT MARKINGS - SCHOOL AREAS		

# 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	
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	

## HYDROLOGY:

## RAILROADS:

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 Easment 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 C/A 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	

\*S.U.E. = Subsurface Utility Engineering

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.*)	

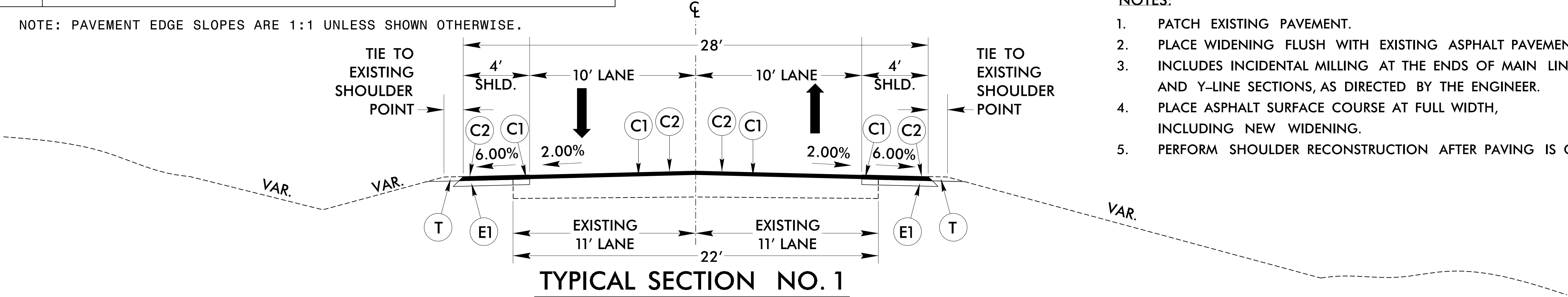
## MISCELLANEOUS:

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	

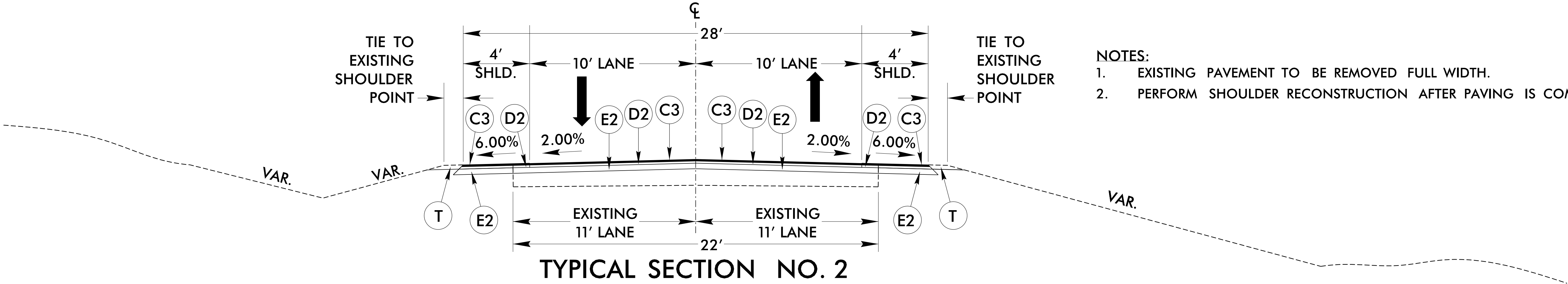


P A V E M E N T   S C H E D U L E	
C1	PROP. ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C (LEVELING COURSE) PLACED AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 336 LBS. PER SQ. YD., IN EACH OF TWO LAYERS
D1	PROP. APPROX. 3.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T	SHOULDER RECONSTRUCTION.
U	EXISTING PAVEMENT.

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



USE WITH MAP 1  
BEGIN AT EXISTING CURB AND GUTTER ON ELIZABETH AVENUE  
END 230 FEET SOUTH OF CENTERLINE OF RAILROAD TRACK



USE WITH MAP 2  
BEGIN 230 FEET SOUTH OF CENTERLINE OF RAILROAD TRACK  
END 60 FEET SOUTH OF CENTERLINE OF RAILROAD TRACK

- NOTES:
1. PATCH EXISTING PAVEMENT.
  2. PLACE WIDENING FLUSH WITH EXISTING ASPHALT PAVEMENT.
  3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.
  4. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH, INCLUDING NEW WIDENING.
  5. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

- NOTES:
1. EXISTING PAVEMENT TO BE REMOVED FULL WIDTH.
  2. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

PROJECT REFERENCE NO.  
032010-25

SHEET NO.  
2

ROADWAY DESIGN  
ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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


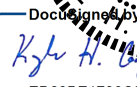


**USE WITH MAP 3**

BEGIN 60 FEET NORTH OF CENTERLINE OF RAILROAD TRACK  
END AT TIE INTO NEUSE BOULEVARD

NOTES:

1. PATCH EXISTING ASPHALT PAVEMENT AS DIRECTED BY THE ENGINEER.
2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.
3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE, AS DIRECTED BY THE ENGINEER.
4. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

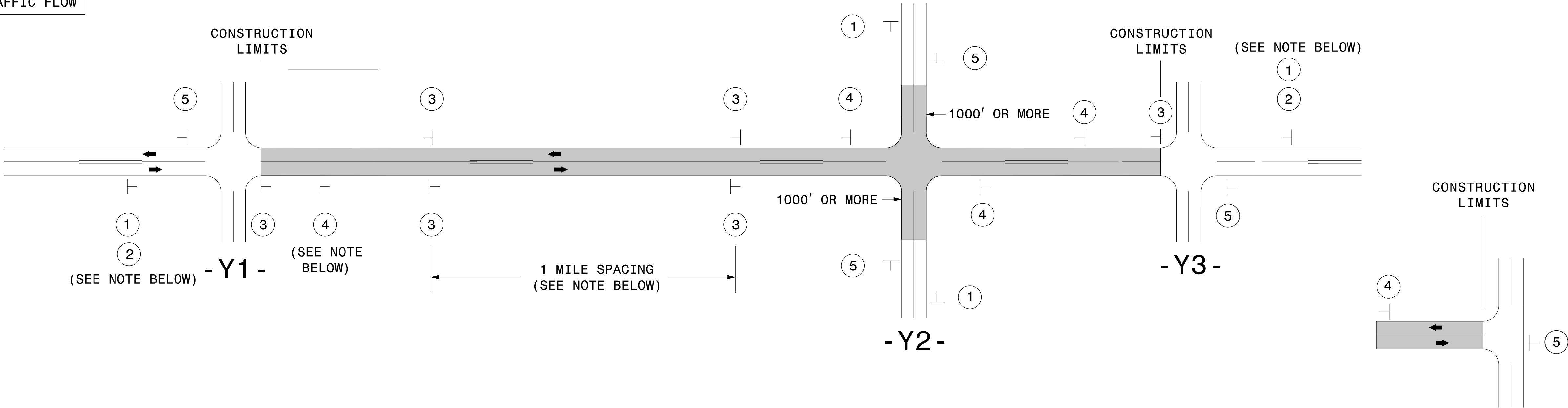
PROJECT REFERENCE NO.	SHEET NO.
032010-25	3
ROADWAY DESIGN ENGINEER	
  Doc# 1786C-MBF	
ED23BE1786C-MBF	
6/1/2023	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

SIGNING FOR RESURFACING PROJECTS

LEGEND

STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW

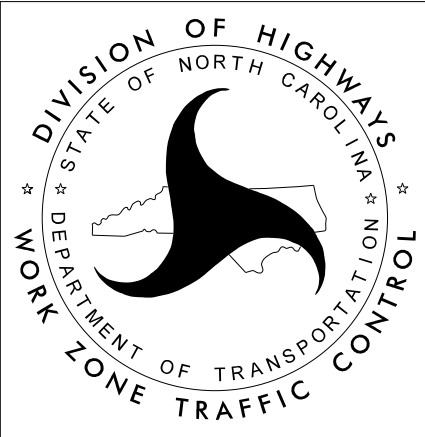


TEE INTERSECTION

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	<div><div>1</div><div><div>ROAD WORK AHEAD</div><div>W20-1 48" X 48"</div><div><div>NEXT XX MILES</div><div>W7-3aP 24" X 18"</div></div></div><div>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</div><div>#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)</div></div>	NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:  1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS  WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.	
	<div><div>3</div><div><div>LOW/SOFT SHOULDER</div><div>SP 13107 48" X 48"</div></div><div>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY ½ MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</div></div>		<div><div><div>ROAD WORK AHEAD</div><div>W20-1 48" X 48"</div></div><div>PLACED 500' IN ADVANCE OF FLAGGER.</div></div> <div><div><div><div></div></div><div>W20-7 A 48" X 48"</div></div><div>PLACED 250' IN ADVANCE OF FLAGGER.</div></div>
	<div><div>4</div><div><div>ROAD UNDER CONST</div><div>SP 13106 48" X 48"</div></div><div>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. - DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</div></div>		
	<div><div>5</div><div><div>END ROAD WORK</div><div>G20-2 A 48" X 24"</div></div><div>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</div></div>		
	THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.		



ADVANCE WARNING SIGNS  
FOR  
RURAL AND SUBURBAN  
2-LANE ROADWAY  
RESURFACING



REVISIONS		DESCRIPTION	
NO.	DATE		
1	08/01/2018	REVISION 1	REVISION 1
2	08/01/2018	REVISION 2	REVISION 2
3	08/01/2018	REVISION 3	REVISION 3
4	08/01/2018	REVISION 4	REVISION 4
5	08/01/2018	REVISION 5	REVISION 5
6	08/01/2018	REVISION 6	REVISION 6
7	08/01/2018	REVISION 7	REVISION 7
8	08/01/2018	REVISION 8	REVISION 8
9	08/01/2018	REVISION 9	REVISION 9
10	08/01/2018	REVISION 10	REVISION 10
11	08/01/2018	REVISION 11	REVISION 11
12	08/01/2018	REVISION 12	REVISION 12
13	08/01/2018	REVISION 13	REVISION 13
14	08/01/2018	REVISION 14	REVISION 14
15	08/01/2018	REVISION 15	REVISION 15
16	08/01/2018	REVISION 16	REVISION 16
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98	08/01/2018	REVISION 98	REVISION 98
99	08/01/2018	REVISION 99	REVISION 99
100	08/01/2018	REVISION 100	REVISION 100



PIPE REPLACEMENT PLAN SHEET

RACETRACK ROAD PIPE REPLACEMENT

GRAVEN COUNTY, NEW BERN, NORTH CAROLINA



**Vaughn & Melton**  
Consulting Engineers, Inc.

3115 Trent Road  
New Bern, NC 28562  
252-631-5115

KENTUCKY  
GEORGIA  
NORTH CAROLINA  
SOUTH CAROLINA  
TENNESSEE

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DRAWN: BAB	
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JOB NO: 032010-25	
SCALE: 1=10' (ANSI D)	
DATE: 12/10/2020	
FILE NAME: Racetrack_storm_plan.dgn	
DRAWING TITLE:  <b>PIPE REPLACEMENT PLAN</b>	
SHEET  — OF	DRAWING NO:  <b>1</b>



1/19/2021 9:50:08 AM  
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Prepared in the Office of:



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3115 TRENT ROAD  
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252-631-5115

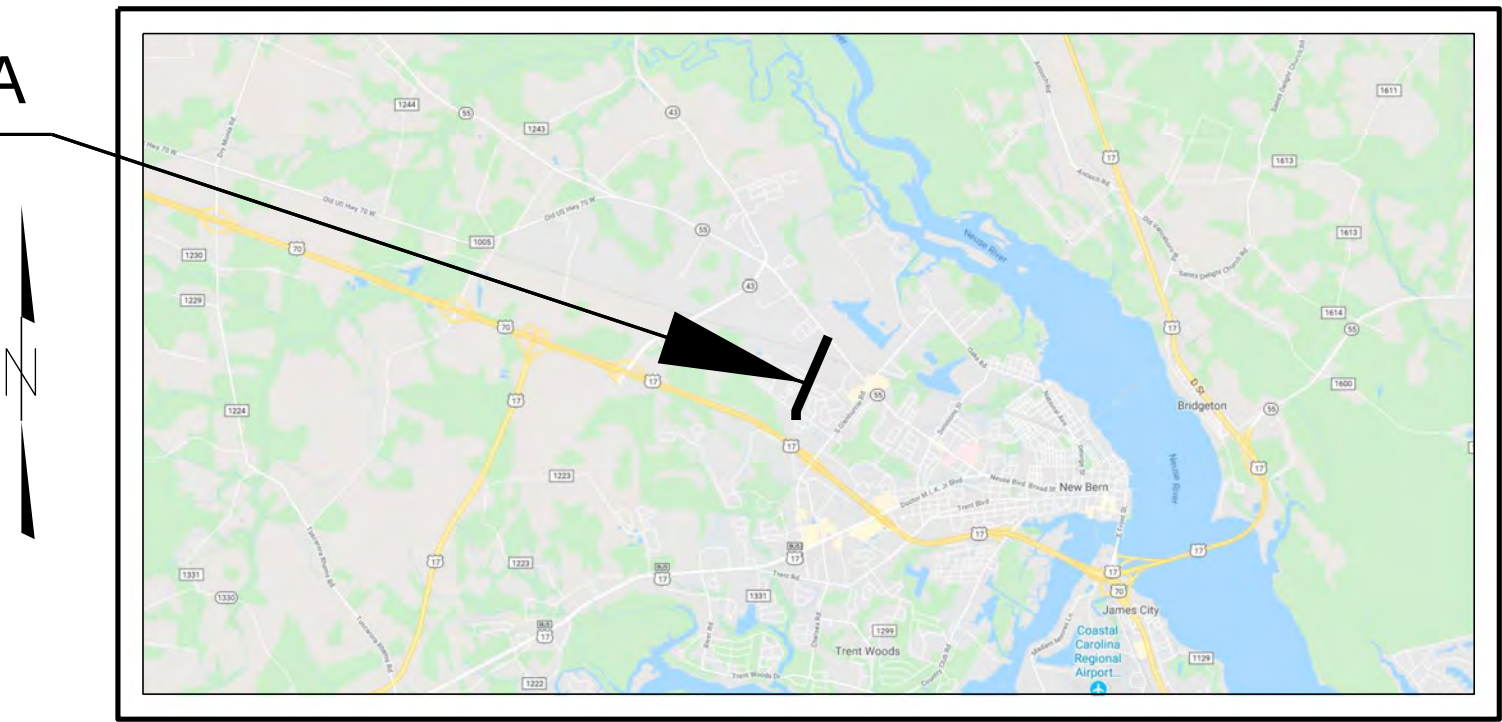


# RACETRACK ROAD EROSION & SEDIMENT CONTROL PLAN

FROM: ELIZABETH AVENUE  
TO: NEUSE BOULEVARD

The base bid includes pavement repair, widening, leveling, resurfacing and pavement markings on Racetrack Road from Elizabeth Avenue to the railroad tracks. Alternate 1 includes replacement of a 36” reinforced concrete pipe with 2 @ 36”reinforced concrete pipes. Alternate 2 includes pavement repair, leveling, resurfacing and pavement markings on Racetrack Road from the railroad tracks to Neuse Boulevard.

PROJECT AREA



VICINITY MAP  
NTS

BEGIN PROJECT



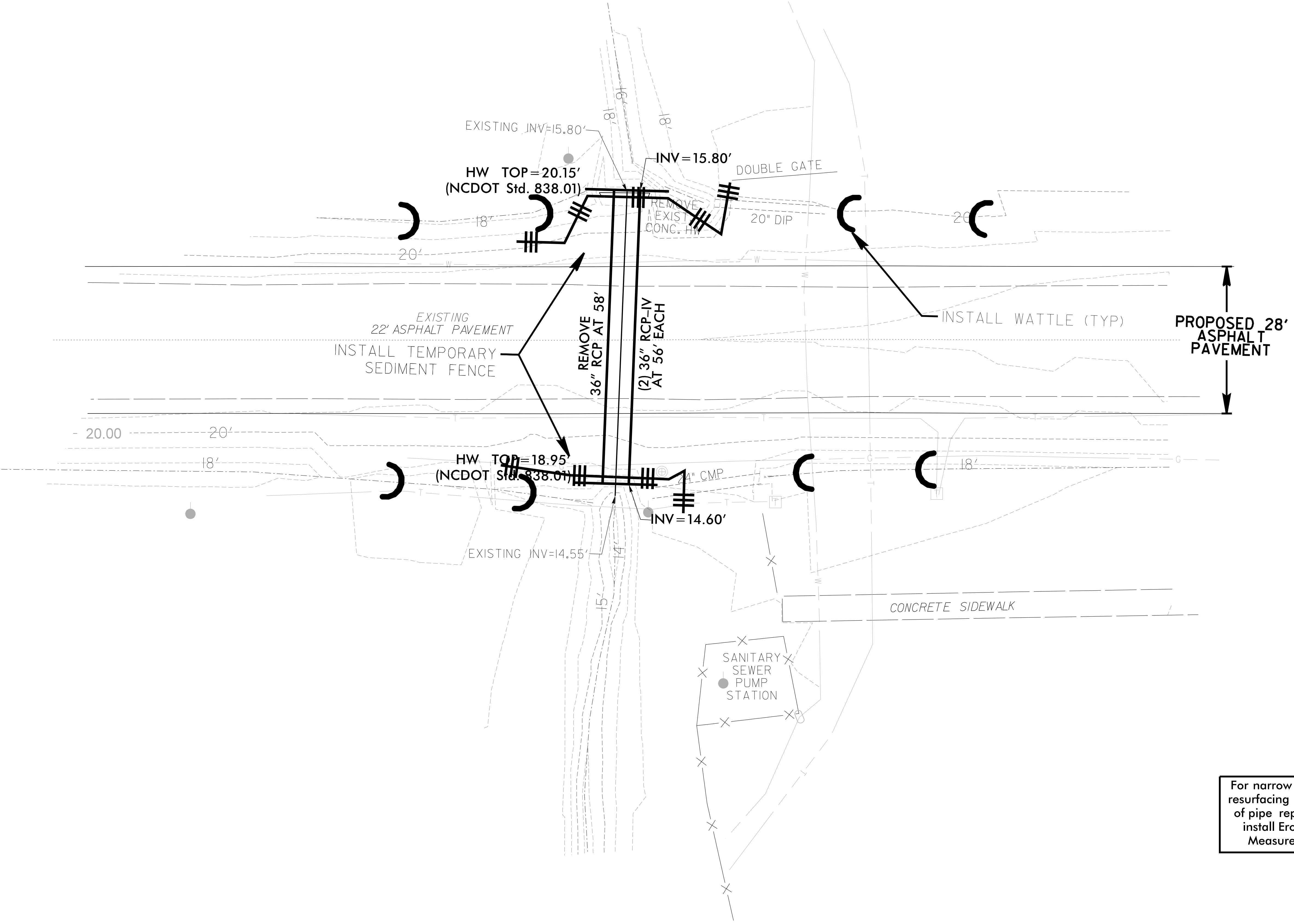
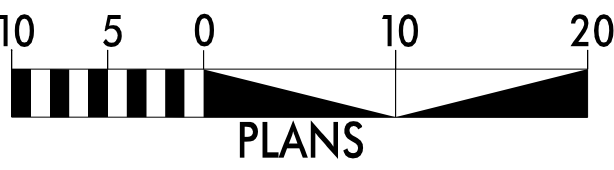
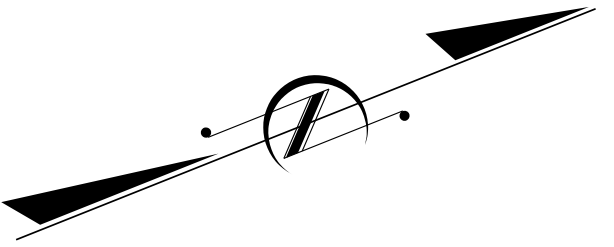
PROJECT LOCATION  
NTS

CRAVEN COUNTY , NORTH CAROLINA

## DRAWING INDEX

EC-1	PROJECT COVER SHEET
EC-2	SOIL STABILIZATION TIMEFRAMES & VEGETATIVE PLAN
EC-3	PLAN LAYOUT
EC-4 - EC-6	EROSION CONTROL DETAILS





For narrow widening and  
resurfacing section outside  
of pipe replacement area  
install Erosion Control  
Measures as directed.

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10’ OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50’ IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

VEGETATIVE PLAN

Stabilization Requirements:  
(3-11-2016)

Stabilization for this project shall comply with the time frame guidelines as specified by the NCG-010000 general construction permit effective April 1, 2019 issued by the North Carolina Department of Environmental Quality Division of Water Resources. Temporary or permanent ground cover stabilization shall occur within 7 calendar days from the last land-disturbing activity, with the following exceptions in which temporary or permanent ground cover shall be provided in 14 calendar days from the last land-disturbing activity:

- Slopes between 2:1 and 3:1, with a slope length of 10 ft. or less
- Slopes 3:1 or flatter, with a slope of length of 50 ft. or less
- Slopes 4:1 or flatter

The stabilization timeframe for High Quality Water (HQW) Zones shall be 7 calendar days with no exceptions for slope grades or lengths. High Quality Water Zones (HQW) Zones are defined by North Carolina Administrative Code 15A NCAC 04A.0105 (25). Temporary and permanent ground cover stabilization shall be achieved in accordance with the provisions in this contract and as directed.

SEEDING AND MULCHING: (East)

The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.

All Roadway Areas

March 1 - August 31		September 1 - February 28	
50#	Tall Fescue	50#	Tall Fescue
10#	Centipede	10#	Centipede
25#	Bermudagrass (hulled)	35#	Bermudagrass (unhulled)
500#	Fertilizer	500#	Fertilizer
4000#	Limestone	4000#	Limestone

Waste and Borrow Locations

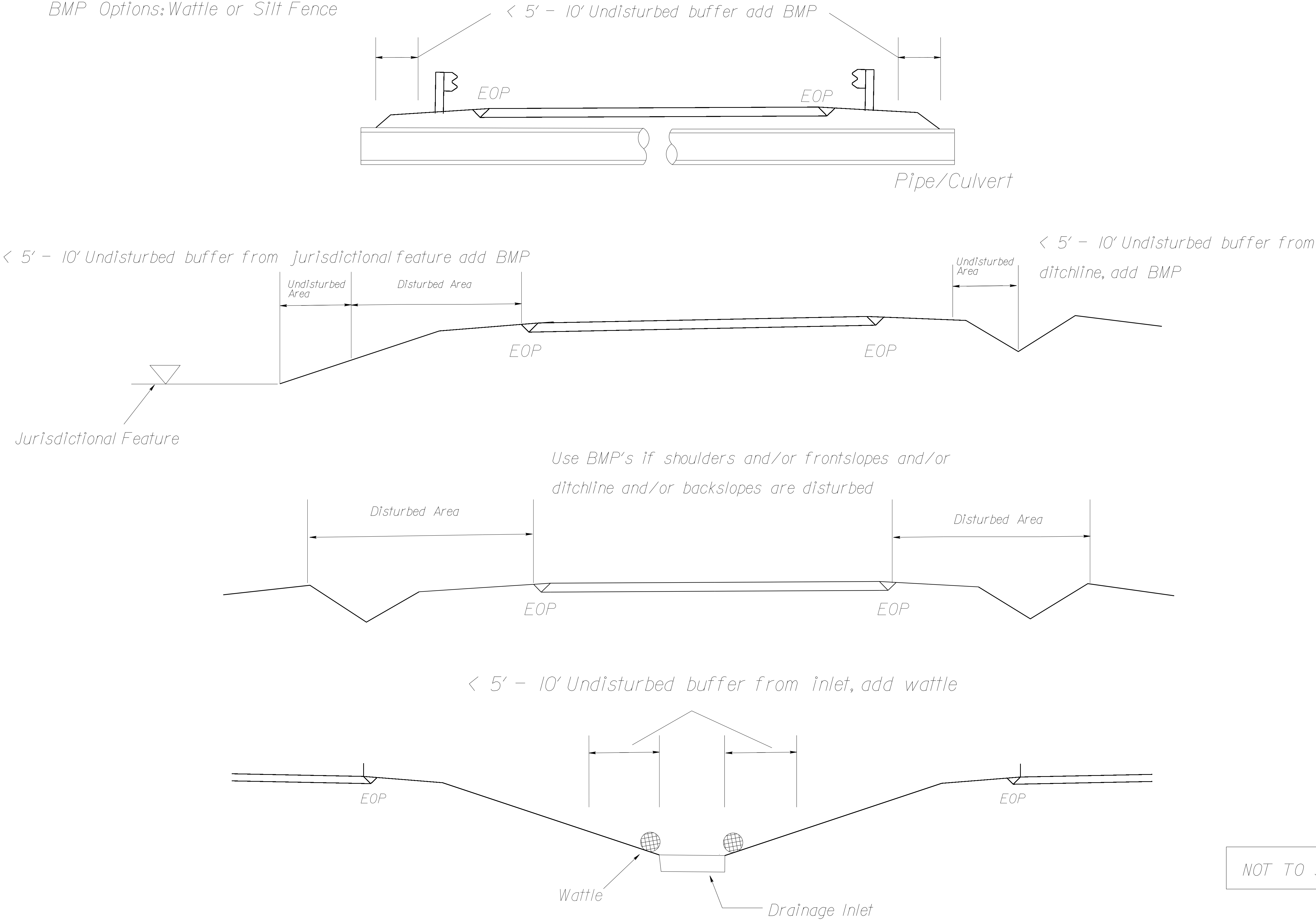
March 1 - August 31		September 1 - February 28	
75#	Tall Fescue	75#	Tall Fescue
25#	Bermudagrass (hulled)	35#	Bermudagrass (unhulled)
500#	Fertilizer	500#	Fertilizer
4000#	Limestone	4000#	Limestone



NOTES: Less than 5' – 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

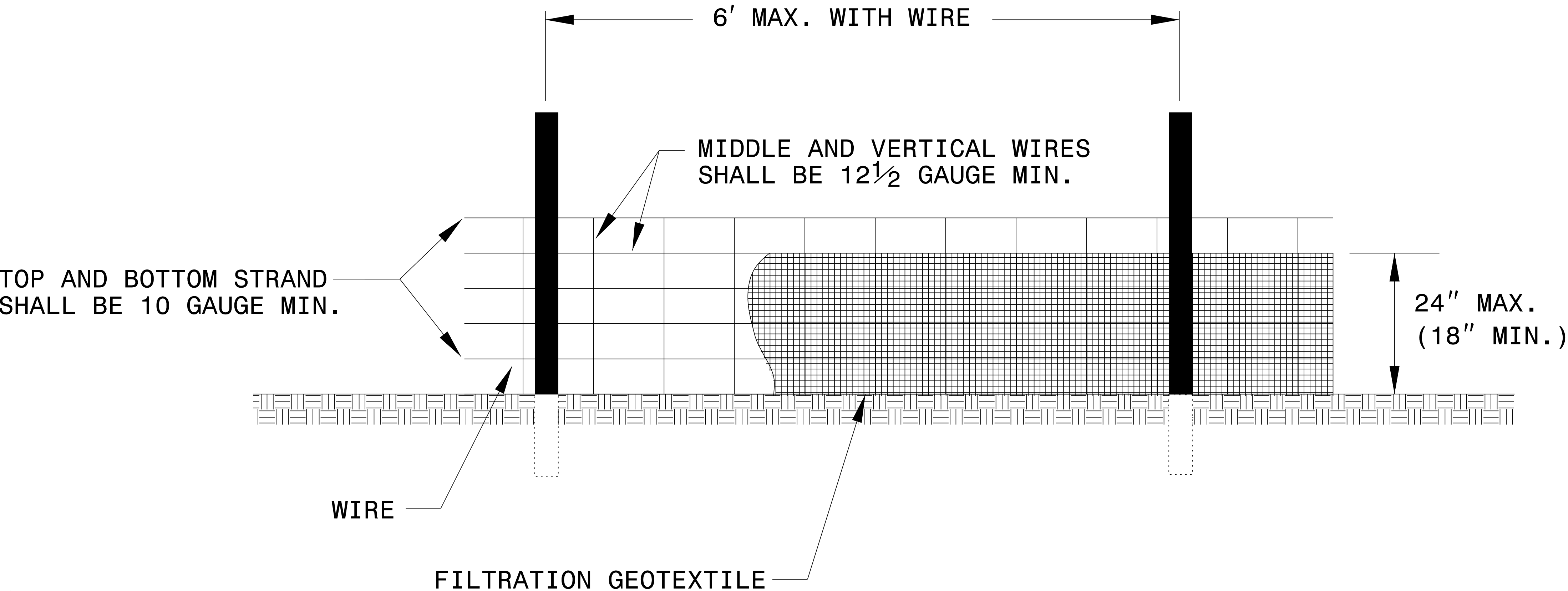
BMP Options: Wattle or Silt Fence

# EROSION CONTROL DETAIL



NOT TO SCALE

# REINFORCED TEMPORARY SILT FENCE DETAIL



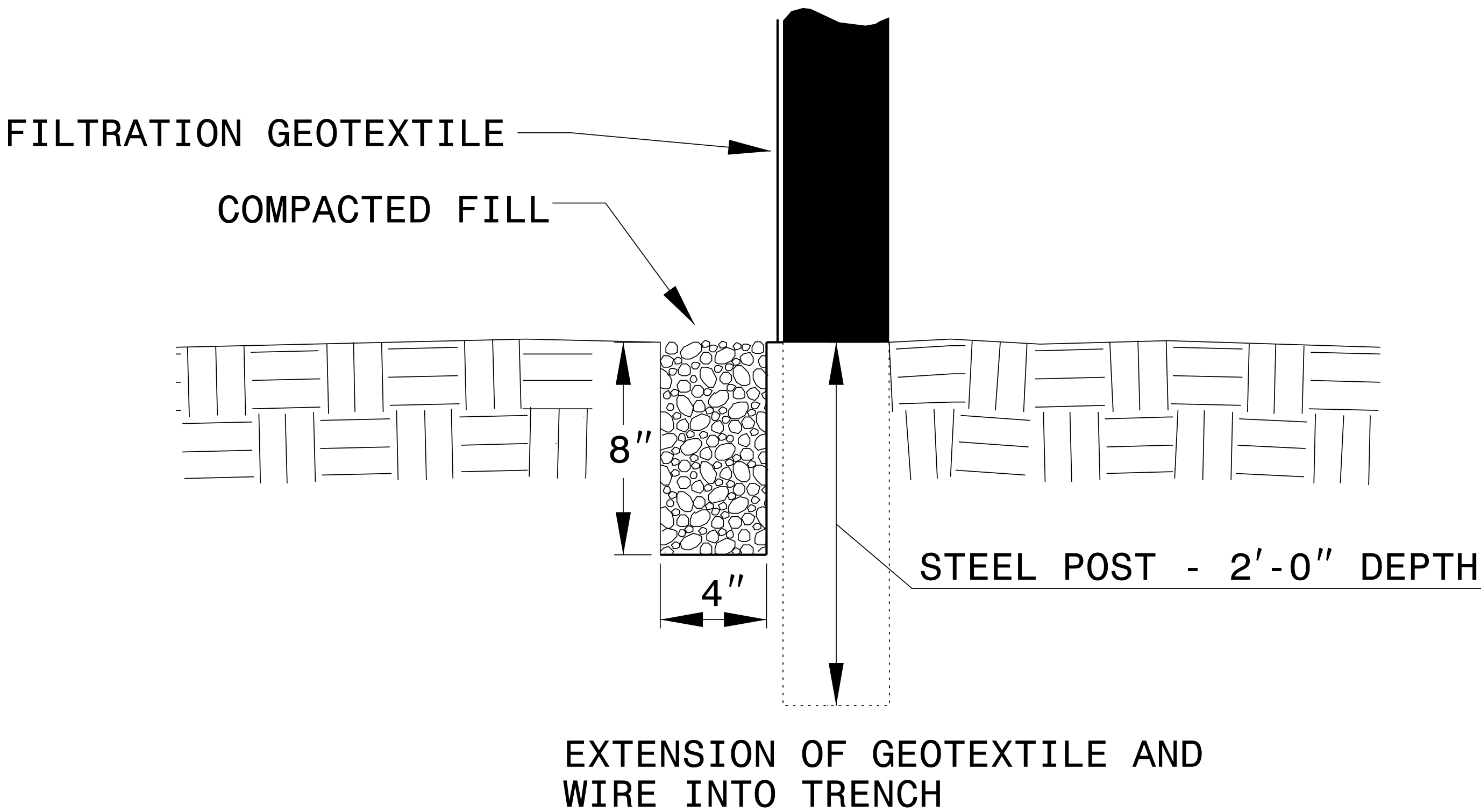
## NOTES

USE FILTRATION GEOTEXTILE A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE POSTS AND WIRE AS DIRECTED.

USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.

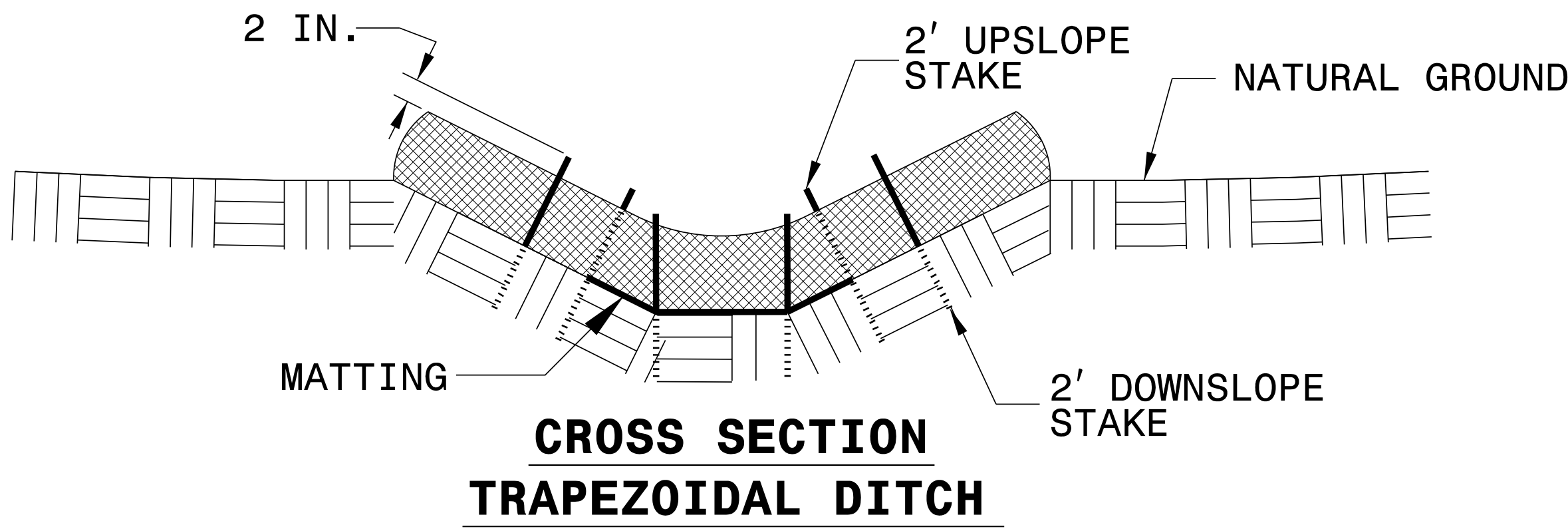
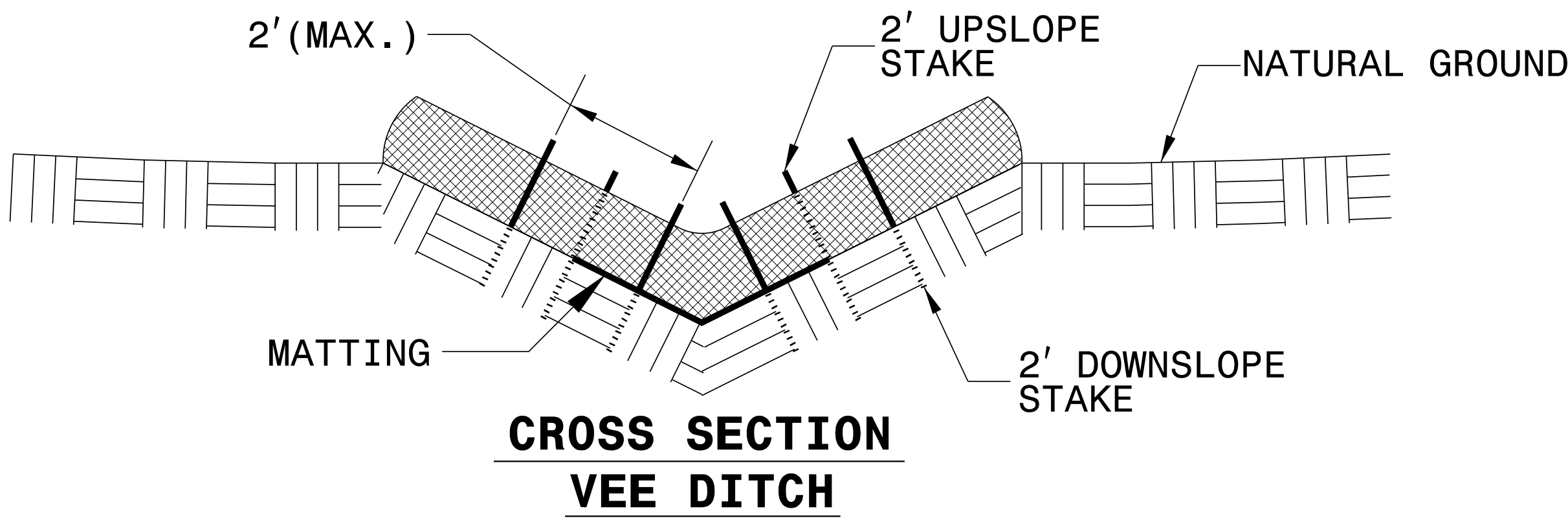
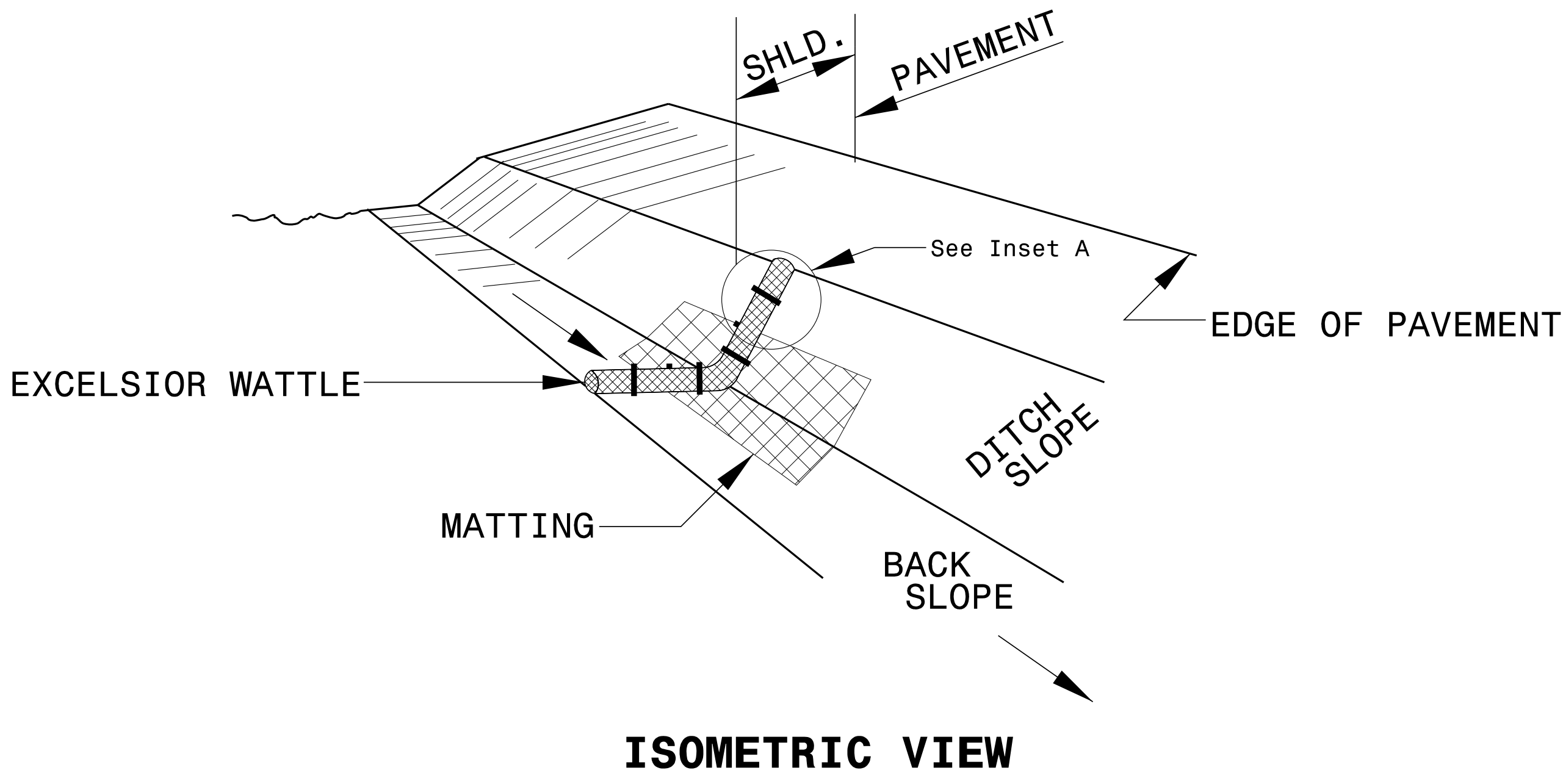
PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.

FOR MECHANICAL SLICING METHOD INSTALLATION, GEOTEXTILE SHALL BE A MAXIMUM OF 18" ABOVE GROUND SURFACE.





# WATTLE DETAIL



## NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

