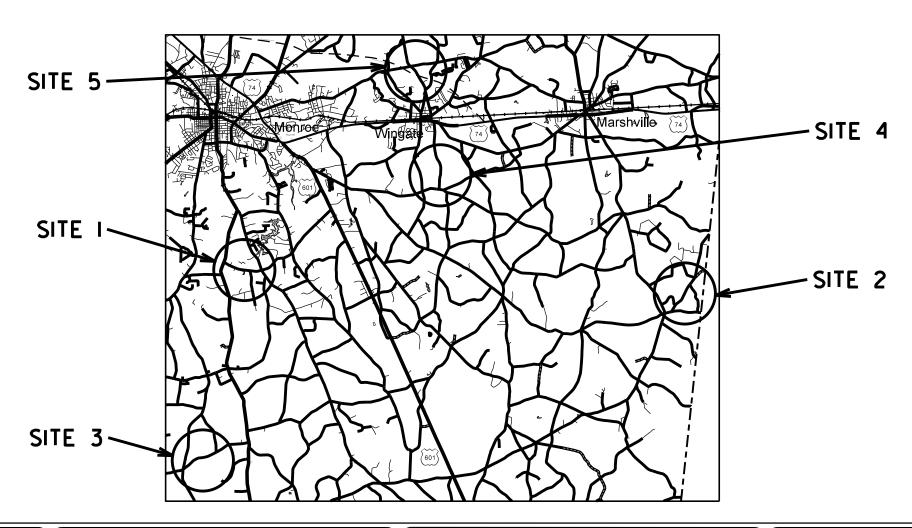
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UNION COUNTY

N.C. 10B.209011 CONST.

LOCATION: VARIOUS LOCATIONS

TYPE OF WORK: REMOVE AND REPLACE STRUCTURAL PIPE



10B.209011

GRAPHIC SCALES

DESIGN DATA

V = NAMPH

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 10B.209011 = VARIES MILES TOTAL LENGTH OF STATE PROJECT 10B.209011 = VARIES MILES

Prepared in the Office of:

DIVISION OF HIGHWAYS DIVISION TEN

DIVISION DESIGN / CONSTRUCT UNIT

2018 STANDARD SPECIFICATIONS

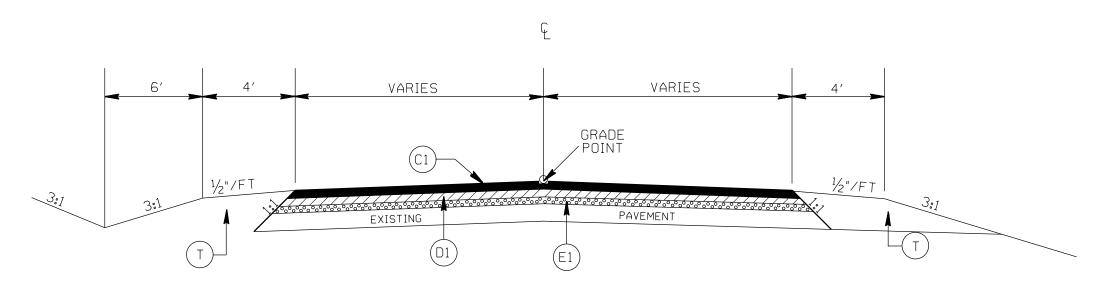
RIGHT OF WAY DATE:

LETTING DATE: JANUARY 17,2018

PROJECT DESIGN ENGINEER

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	IOB.2090II	2	
F.A. PRO	F.A. PROJECT NO.		



TYPICAL SECTION NO. 1

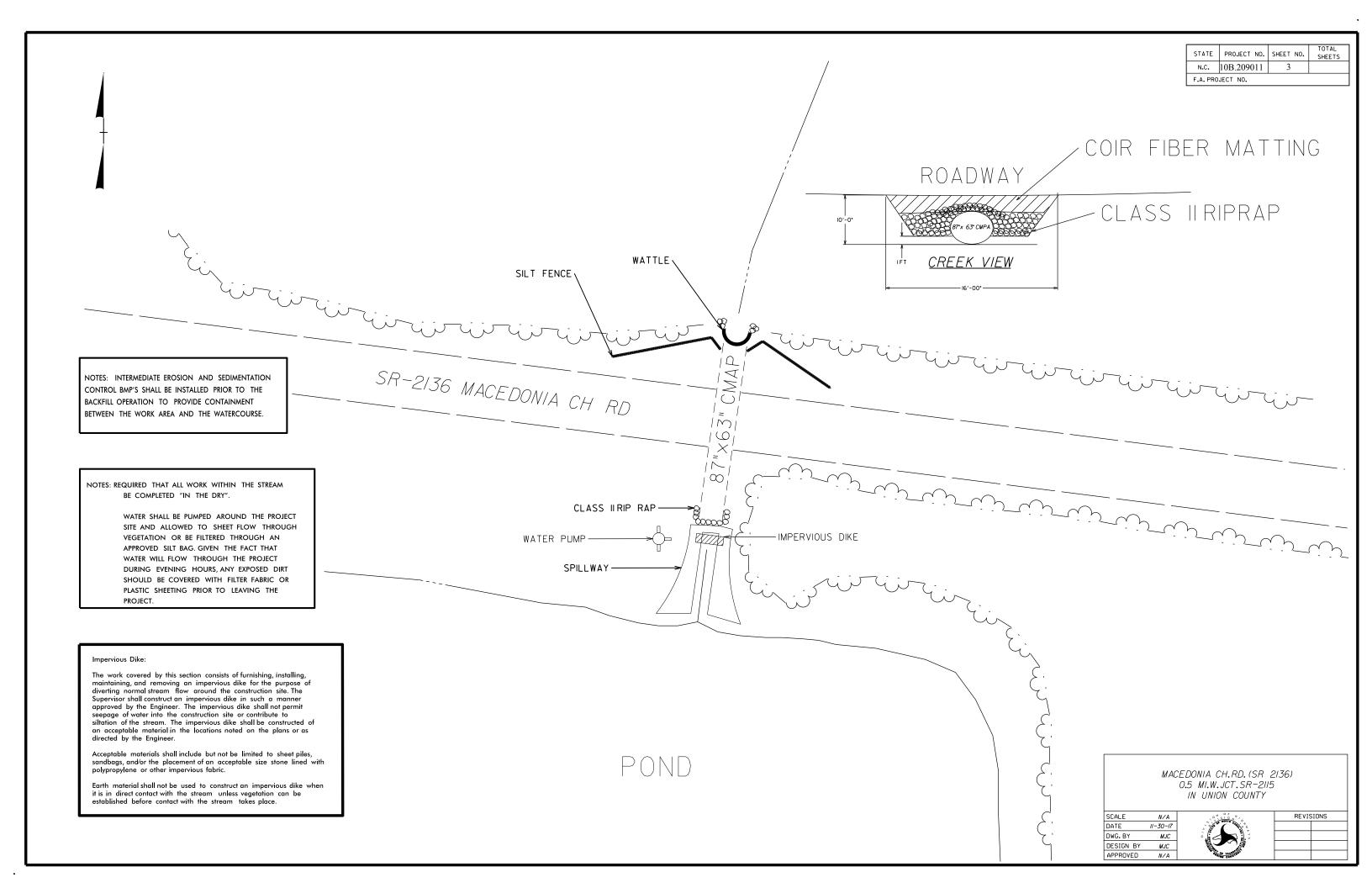
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1)	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1)	PROP. APPROX. 4" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	EARTH MATERIAL

REMOVE AND REPLACE STRUCTURAL PIPE

SCALE	r=50°	
DATE	DEC 2017	
DWG. BY	TBL	
DESIGN BY	TWB	
ADDDOVED	TWD	





STATE PROJECT NO. SHEET NO. N.C. 10B.209011 F.A. PROJECT NO. TEMP SILT FENCE (PLACE AT THE BOTTOM OF THE SLOPE) NOTES: INTERMEDIATE EROSION AND SEDIMENTATION CONTROL BMP'S SHALL BE INSTALLED PRIOR TO THE CLASS II RIP RAP BETWEEN THE WORK AREA AND THE WATERCOURSE. NOTES: REQUIRED THAT ALL WORK WITHIN THE STREAM WATTLE WATER SHALL BE PUMPED AROUND THE PROJECT SITE AND ALLOWED TO SHEET FLOW THROUGH WATER PUMP COIR FIBER MATTING VEGETATION OR BE FILTERED THROUGH AN APPROVED SILT BAG. GIVEN THE FACT THAT WATER WILL FLOW THROUGH THE PROJECT DURING EVENING HOURS, ANY EXPOSED DIRT IMPERVIOUS DIKE SHOULD BE COVERED WITH FILTER FABRIC OR CLASS II RIPRAP PLASTIC SHEETING PRIOR TO LEAVING THE CREEK VIEW The work covered by this section consists of furnishing, installing, maintaining, and removing an impervious dike for the purpose of diverting normal stream flow around the construction site. The Supervisor shall construct an impervious dike in such a manner approved by the Engineer. The impervious dike shall not permit seepage of water into the construction site or contribute to siltation of the stream. The impervious dike shall be constructed of an acceptable material in the locations noted on the plans or as HIGH RIDGE CH RD. (SR 1905) Acceptable materials shall include but not be limited to sheet piles, 0.6 MI.N.JCT.(SR 1003) sandbags, and/or the placement of an acceptable size stone lined with IN UNION COUNTY Earth material shall not be used to construct an impervious dike when REVISIONS it is in direct contact with the stream unless vegetation can be established before contact with the stream takes place. 11-30-15 DWG. BY MJC DESIGN BY MJC APPROVED

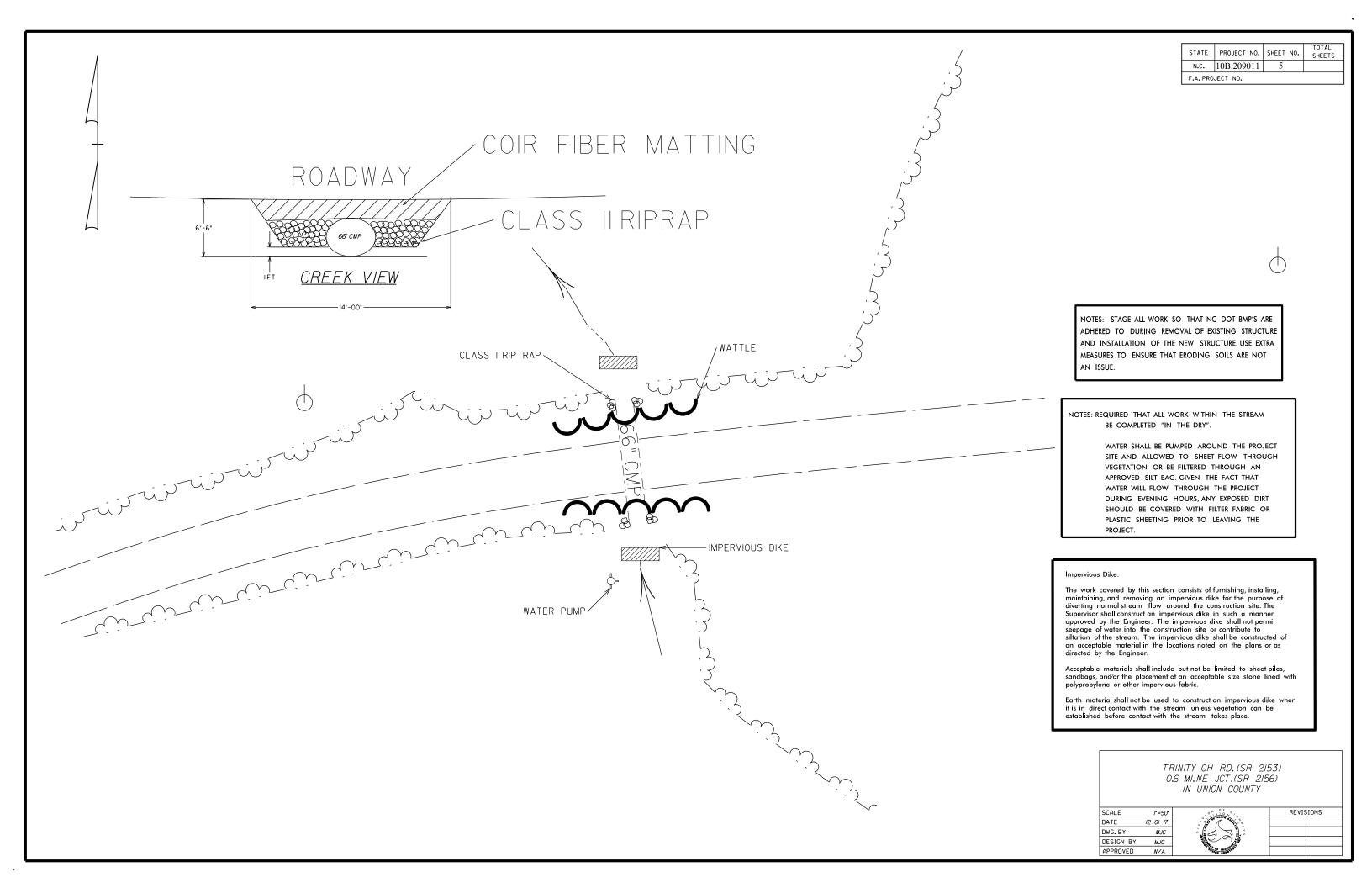
BACKFILL OPERATION TO PROVIDE CONTAINMENT

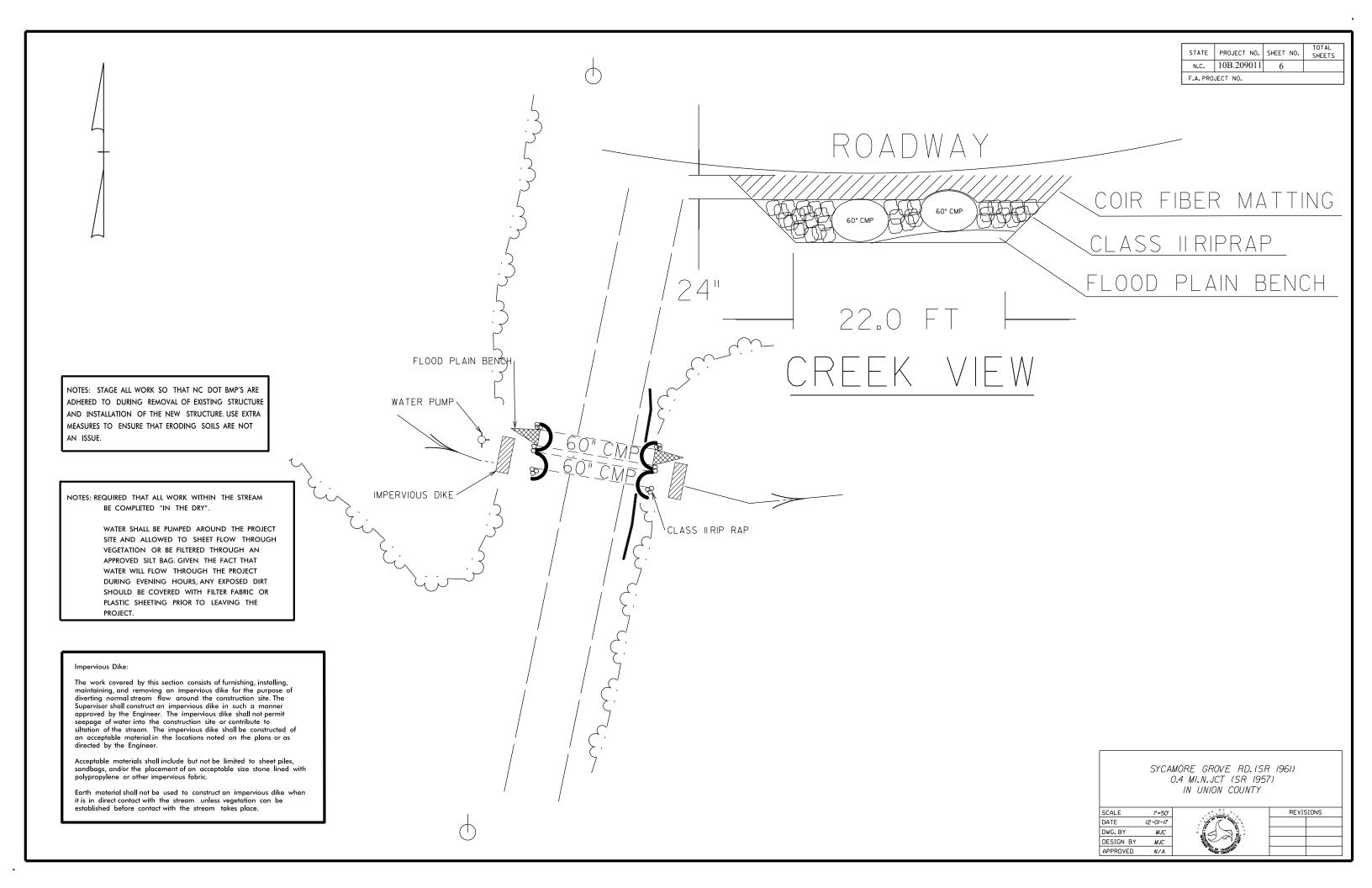
BE COMPLETED "IN THE DRY".

PROJECT.

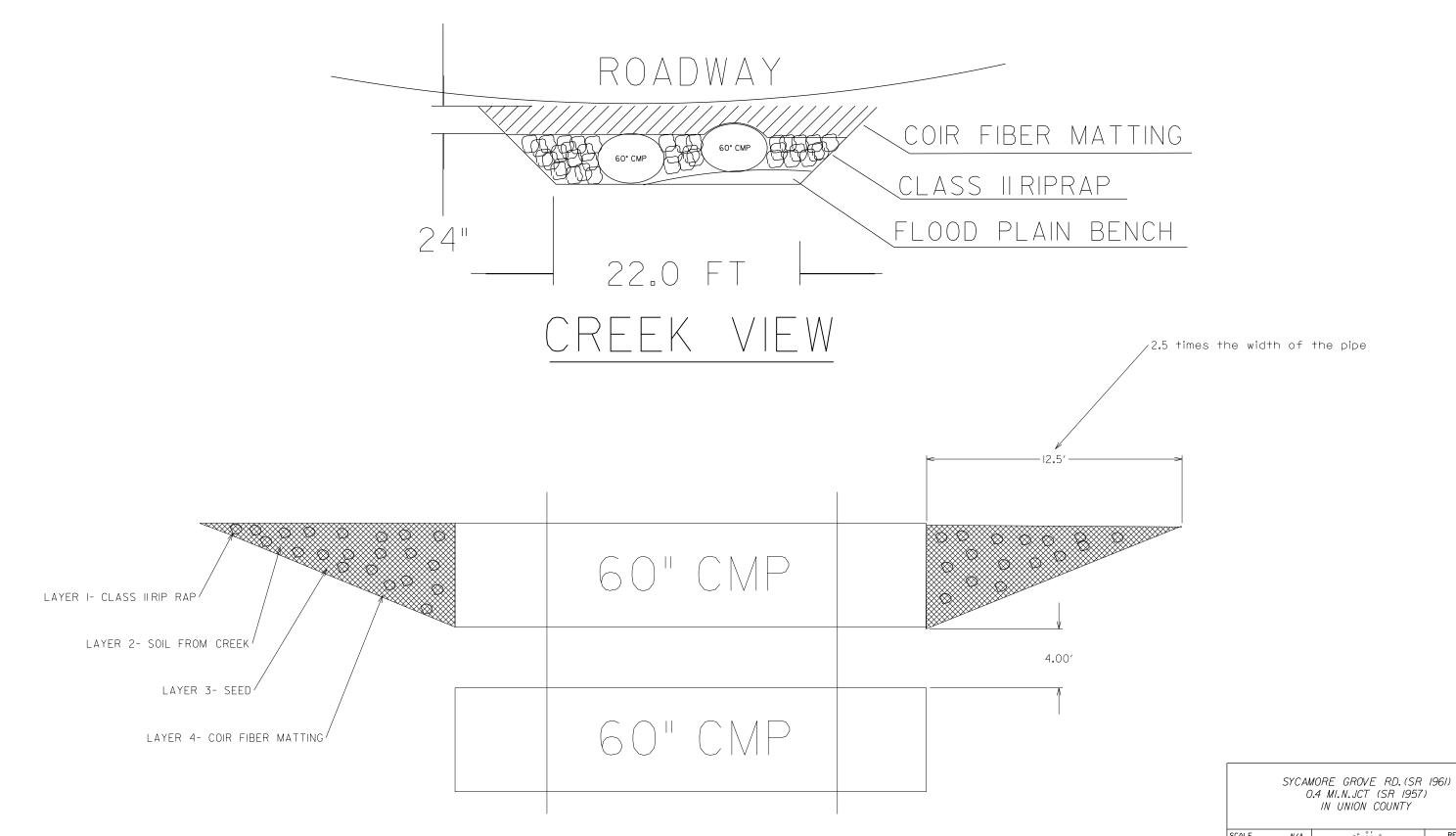
polypropylene or other impervious fabric.

Impervious Dike:

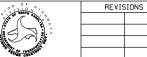


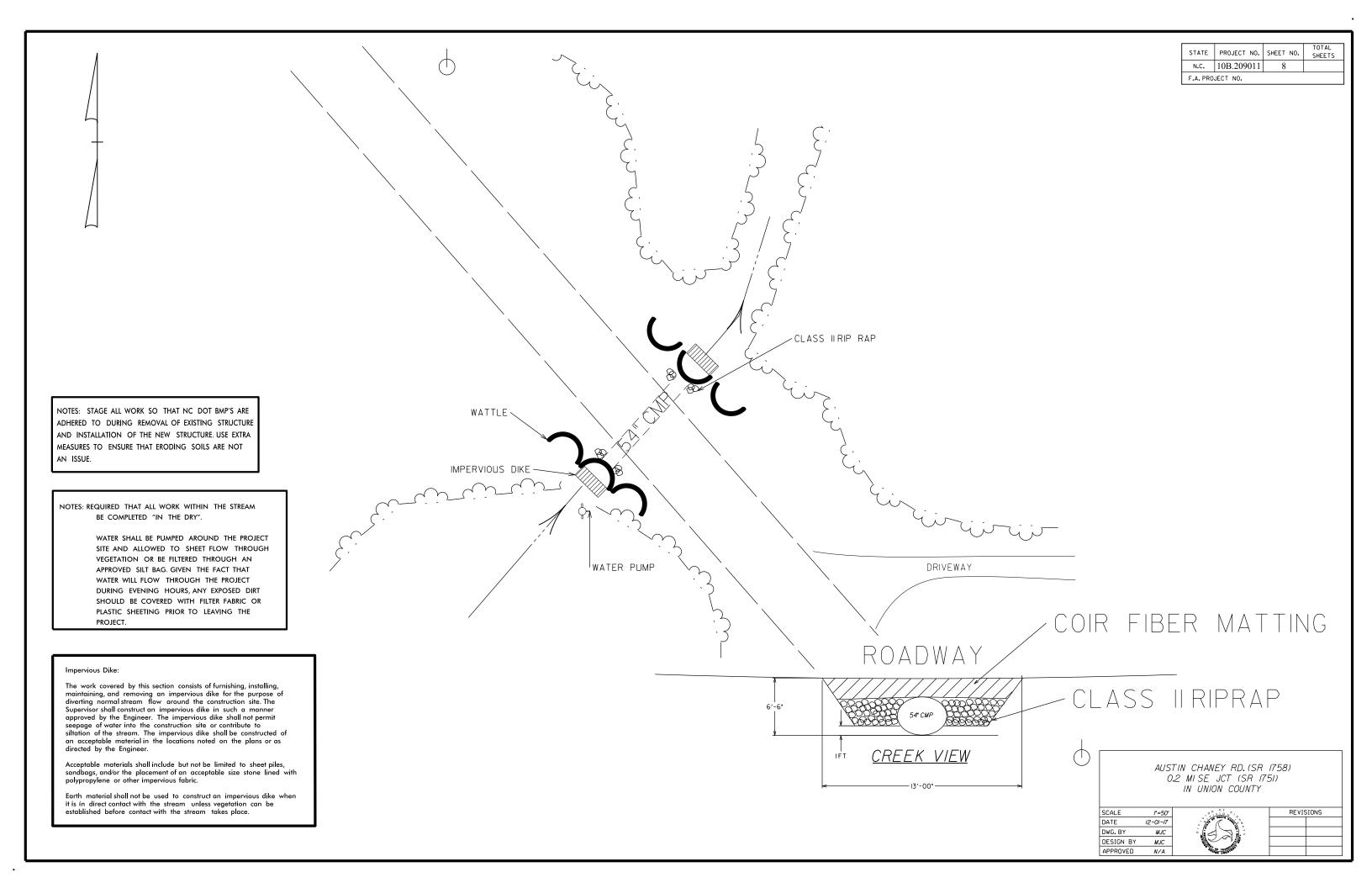


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10B.209011	7	
F.A. PROJECT NO.			



SCALE	N/A	
DATE	12-1-17	
DWG. BY	MJC	
DESIGN BY	MJC	
APPROVED	N/A	





DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.		SHEET NO.
10B.209011		9
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

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	I4 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.