PILE SPLICE DETAILS

BACK GOUGE DETAIL B

60°

BACK GOUGE DETAIL A

45°

PILE VERTICAL

PILE HORIZONTAL OR VERTICAL

$45° {+10° \atop -0°}$ 0" TO $\frac{1}{8}$"

$60° {+10° \atop -0°}$

0" TO $\frac{1}{8}$"

0" TO $\frac{1}{8}$"

0" TO $\frac{1}{8}$"

DETAIL A

DETAIL B

△ POSITION OF PILE DURING WELDING.

TEMPORARY DRAINAGE AT END BENT

MINIMUM OF 3- ONE CUBIC FOOT BAGS OF #78M STONE. BAGS SHALL BE OF POROUS FABRIC, SECURELY TIED.

MINIMUM OF 3- ONE CUBIC FOOT BAGS OF #78M STONE. BAGS SHALL BE OF POROUS FABRIC, SECURELY TIED.

6" (MIN.) PIPE FOR DRAINAGE

6" (MIN.) PIPE FOR DRAINAGE

GRADE TO DRAIN

GRADE TO DRAIN

TOE OF SLOPE

TOE OF SLOPE

STAGE I CONSTRUCTION

STAGE II CONSTRUCTION

BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

STAGE I   STAGE II

CONST. JT.

#10B5
#10B4
#10B3
#10B2
#10B1

#10B18
#10B17
#10B16
#10B15
#10B14

FILL FACE

MECHANICAL BUTT SPLICE (TYP.)

✱

PLAN OF BOTTOM REINFORCEMENT

STAGE I   STAGE II

#9B10
#9B9

CONST. JT.

#9B25
#9B21

FILL FACE

MECHANICAL BUTT SPLICE (TYP.)

✱

PLAN OF TOP REINFORCEMENT

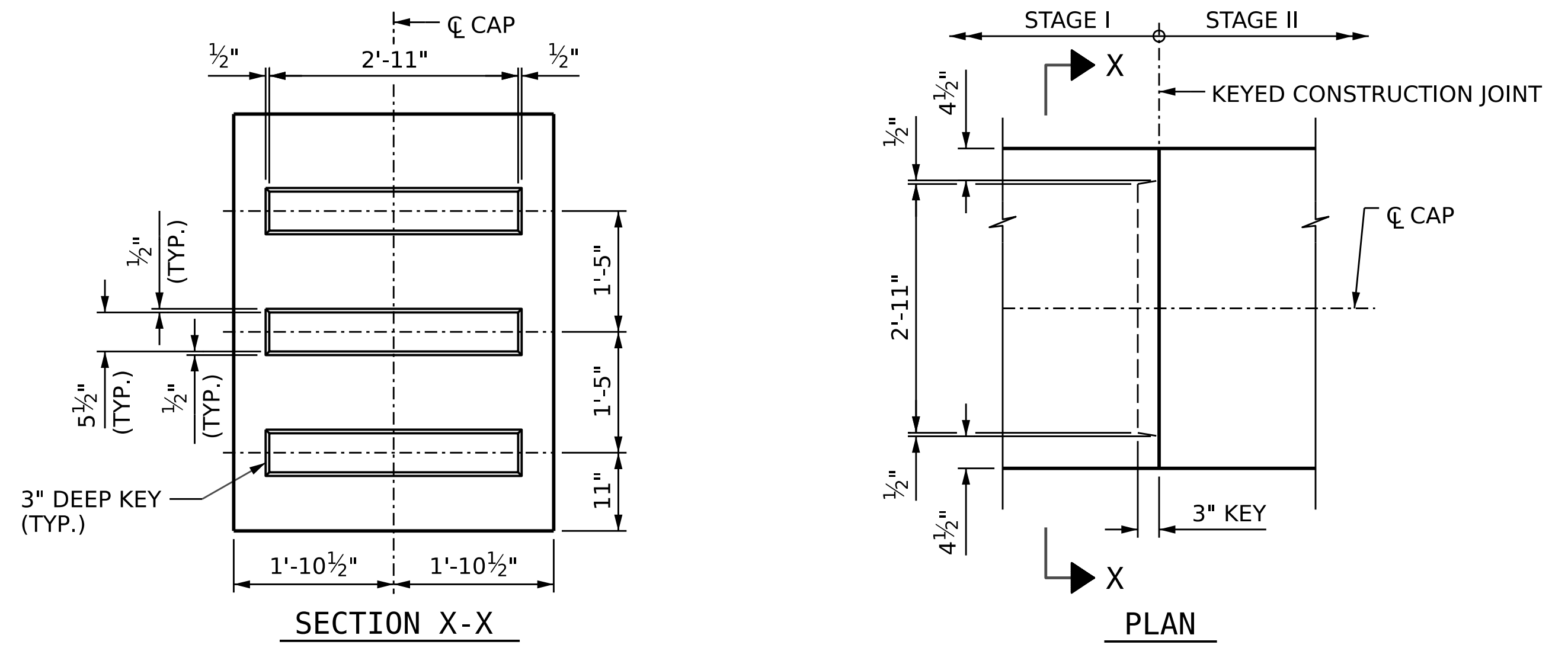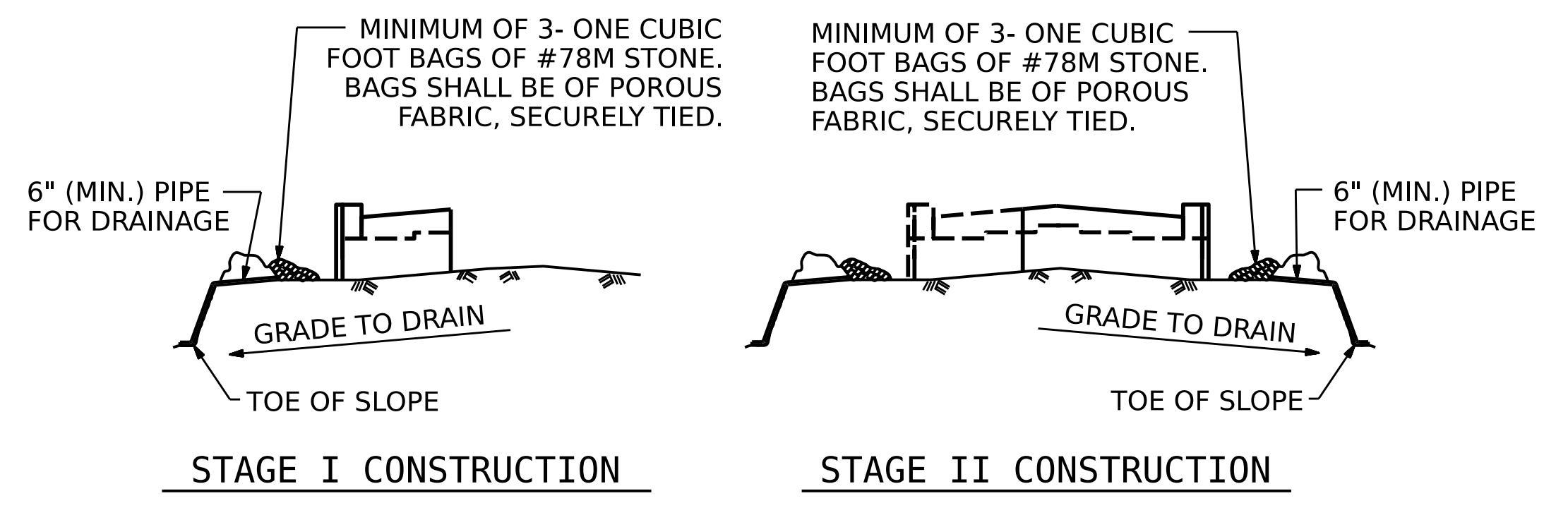## DETAIL "B"

✱ STAGE I TOP AND BOTTOM "B" BARS ARE DETAILED WITH STAGGERED 1'-0" AND 3'-0" EXTENSIONS BEYOND CONSTRUCTION JOINT

$\frac{1}{2}$"   2'-11"   ₵ CAP $\frac{1}{2}$"

$\frac{1}{2}$" (TYP.)

$\frac{1}{2}$" (TYP.)

$5\frac{1}{2}$" (TYP.)

$\frac{1}{2}$" (TYP.)

1'-5"
1'-5"
11"

3" DEEP KEY (TYP.)

1'-10$\frac{1}{2}$"   1'-10$\frac{1}{2}$"

SECTION X-X

STAGE I   STAGE II

X

KEYED CONSTRUCTION JOINT

$4\frac{1}{2}$"
$\frac{1}{2}$"
2'-11"
$\frac{1}{2}$"
$4\frac{1}{2}$"

₵ CAP

3" KEY

X

PLAN

KEYED CONSTRUCTION JOINT DETAIL

PROJECT NO. BR-0043

ROCKINGHAM COUNTY

STATION: POT 25+80.88 -L-

SHEET 4 OF 5

AECOM

AECOM TECHNICAL SERVICES OF NC, INC.
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(919) 854-6200   www.aecom.com
AECOM License No. F-0342

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT 1

DETAILS

NORTH CAROLINA
PROFESSIONAL
SEAL
030474
ENGINEER
JOHN C. MORRISON

DocuSigned by:
John C. Morrison
A2FDE142C82FAAB...

1/31/2023

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-31
1			3			TOTAL SHEETS
2			4			45

DRAWN BY :	D.R. DRUM	DATE :	09/2022
CHECKED BY :	D. RITACCO	DATE :	11/2022
DESIGN ENGINEER OF RECORD:	J.C. MORRISON	DATE :	12/2022

1/31/2023
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