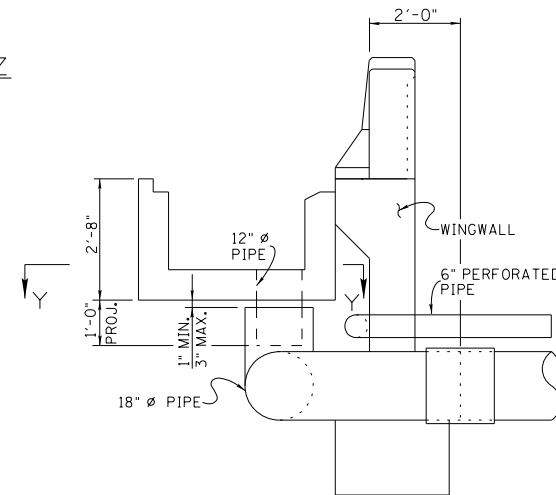
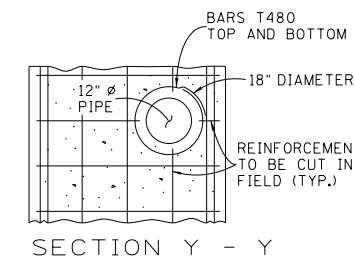
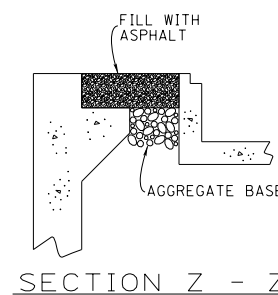
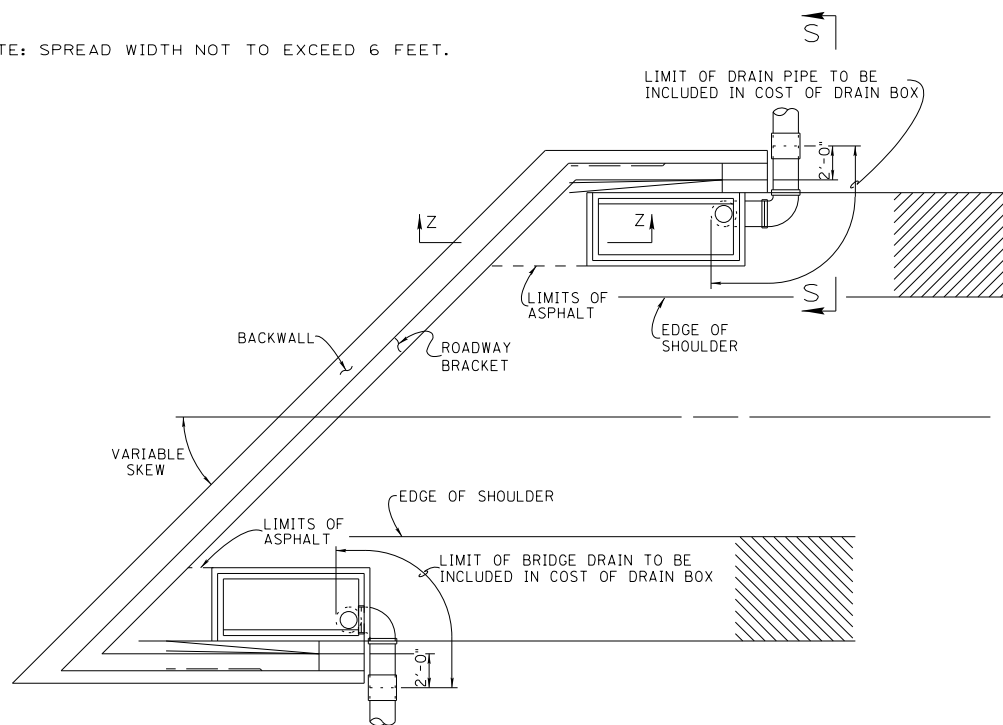
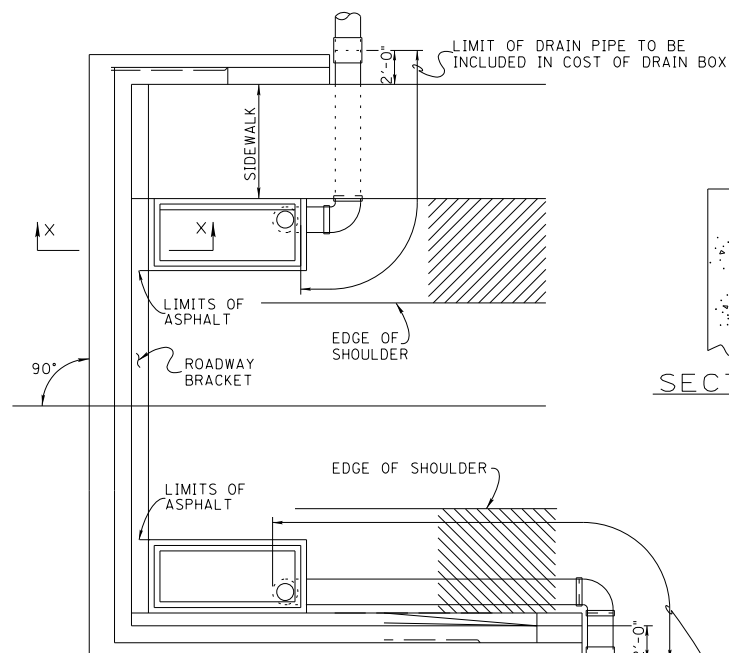


NOTE: SPREAD WIDTH NOT TO EXCEED 6 FEET.

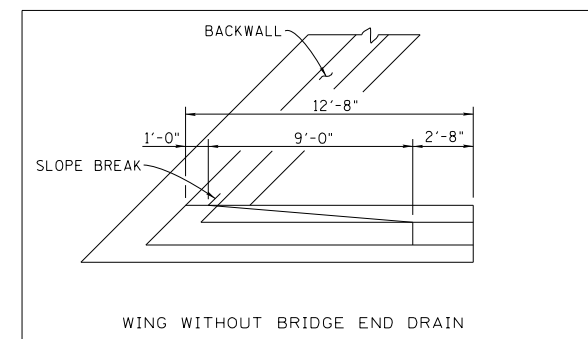
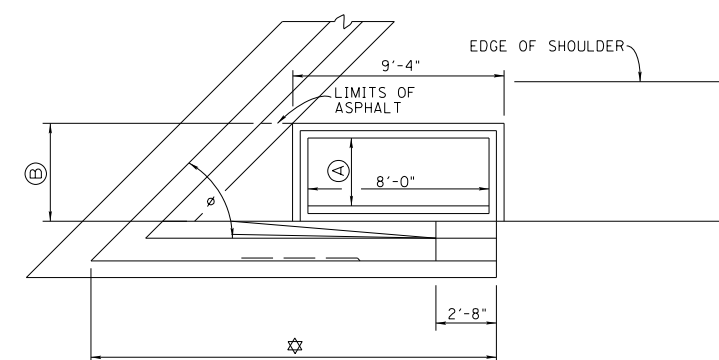
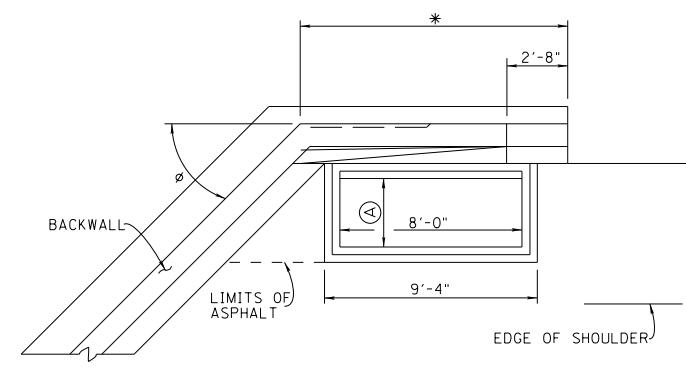
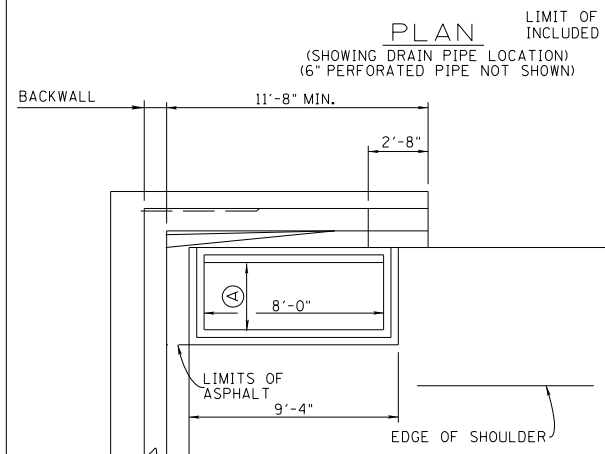


PROJECT NO.	YEAR	SHEET NO.
	2021	

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5/10/21	TAK	RE-ISSUED DRAWING

NOTE: FOR ADDITIONAL DETAILS SEE STD-1-1 THRU 4, 10 AND 12 OR 13.

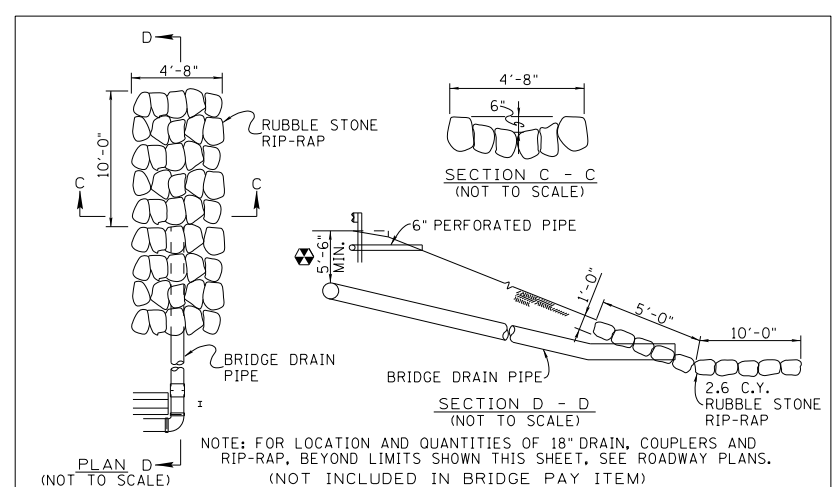


MINIMUM WING LENGTHS FOR DRAIN PLACEMENT

$$[BACKWALL + ROADWAY BRACKET / \sin \theta] - [1'-9" / \tan \theta] + 10'-8" = *$$

$$[4'-1" / \tan \theta] + 9'-0" + [(ROADWAY BRACKET + BACKWALL) / \sin \theta] = \star$$

$$[6'-1" / \tan \theta] + 9'-0" + [(ROADWAY BRACKET + BACKWALL) / \sin \theta] = \star$$



- PART PLAN
- A) 1'-0" FOR 2' x 8'-7" DRAIN BOX  
3'-0" FOR 4' x 8'-7" DRAIN BOX
  - B) 2'-4" FOR 2' x 8'-7" DRAIN BOX  
4'-4" FOR 4' x 8'-7" DRAIN BOX

NOTE TO DETAILER:  
FOR FIGURING WING LENGTHS USE THE GREATER VALUE PRODUCED BY THE METHOD FOUND IN STRUCTURES MEMORANDUM MISCELLANEOUS ABUTMENT DETAILS OR THE MINIMUM WING LENGTH FOR DRAIN PLACEMENT FORMULAS FOUND ON THIS SHEET.

NOTE: WINGWALLS PER ABUTMENT SHOULD BE THE SAME LENGTH.

NOTE: IF CONDITIONS PREVENT THE 18" BRIDGE DRAIN PIPE FROM BEING LOCATED AT THE DEPTH SHOWN, THE PIPE MAY BE RUN HORIZONTALLY PARALLEL TO THE WING FOR 7'-3 1/2" PAST THE END OF WING AND THEN TURNED TO PASS BETWEEN GUARDRAIL POSTS (4) AND (5) (SEE S-6R-23).

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

BRIDGE END DRAIN DETAILS  
2' x 8'-7" & 4' x 8'-7" WITHOUT  
PAVEMENT AT BRIDGE ENDS  
2021

CORRECT *Del A. Kravitz*  
ENGINEER OF STRUCTURES

DESIGNED BY C.M. HILES  
DRAWN BY KIM FRANKENFIELD  
SUPERVISED BY C.M. HILES  
CHECKED BY \_\_\_\_\_

DATE \_\_\_\_\_  
DATE \_\_\_\_\_  
DATE \_\_\_\_\_  
DATE \_\_\_\_\_