

STATE PROJECT NUMBER

5145-00-71

#### GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-13-3098" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL TYPE B WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON CUTOFF WALLS AND END COLLARS.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE B" REQUIRED FOR 3 FEET BEYOND THE HORIZONTAL PLAN LIMITS AT THE BOTTOM OF THE PIPE ARCH, AND UP AT A 1:1.5 BACKFILL SLOPE FROM THE BOTTOM OF THE PIPE ARCH TO TOP OF THE PIPE ARCH COLLAR. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

CONTRACTOR MAY ELECT TO SUBSTITUTE #10R #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BACKFILL GRANULAR TYPE 1, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE PIPE ARCH. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED

ANY COMBINIATION OF SECTION LENGTHS IS ALLOWED TO ACHIEVE THE TOTAL PLAN LENGTH, PROVIDED NO PIPE SEAMS ARE UNDER TRAFFIC OF STH 19. NO ADDITIONAL COMPENSATION WILL BE MADE FOR CUTTING PIPES TO SIZE TO CONSTRUCT AS SHOWN.

PREJIME 2022

BRIDGE OFFICE: AARON BONK. P.E

(608) 261-0261

CONSULTANT:

NO. DATE REVISION BY ENGINEERING, INC STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-13-3098

STH 19 OVER ICE AGE TRAIL DANE BERRY DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS DESIGNED DESIGN BY CJM CK'D. DRAWN CJM CK'D. SHEET 1 OF 3 **GENERAL** 

PLAN

STRUCTURES DESIGN CONTACTS

CHRISTOPHER MARCUM, P.E. (920) 861-4823

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MATERIAL PROPERTIES: CONCRETE MASONRY:... .....f'c = 3,500 PSI HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60......fy = 60,000 PSI

STRUCTURE TO BE SUPPORTED ON FOUNDATION BACKFILL WITH A REQUIRED FACTORED BEARING RESISTANCE OF 2,000 PSF\*.

\* THE FACTORED BEARING RESISTANCE IS THE VALUE USED FOR DESIGN.

# 3. SUBSURFACE EXPLORATION

# BENCH MARK

NO.	STATION	DESCRIPTION	ELEVATION	
ВМ	STA. 383+00.67, 50.55' RT.	CP - LEVELED	938.87	
NOTE: BENCHMARK LOCATION SUBJECT TO CHANGE				

R.D.S. = 55 MPH

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# TOTAL ESTIMATED QUANTITIES

BID ITEMS

NON-BID ITEMS

NAME PLATE

ITEM NO.

(A02)

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5145-00-**7**1

STATE PROJECT NUMBER

٦Y	CATEGORY 0040	TOTAL			
-	1	1			
-					
_					

CATEGOF 0010

UNIT

EACH

EXCAVATION FOR STRUCTURES CULVERTS C-13-3098 ----206,2000 LS 210.2500 BACKFILL STRUCTURE TYPE B TON -----504.0100 CONCRETE MASONRY CULVERTS ----505.0600 BAR STEEL REINFORCEMENT HS COATED STRUCTURES LB 645.0105 GEOTEXTILE TYPE C SY 517.1010.S CONCRETE STAINING C-13-3098 SF 527.0335 PIPE ARCH STRUCTURAL PLATE 12-FT SPAN LF

CONCRETE SLOPE COLLAR

CONCRETE SLOPE COLLAR

CONCRETE CUTOFF WALL

EL. 927.09 'IAT' GRADE

T'-1076"

T'-1076"

T'-1076"

EL. 926.76 PIPE INVERT

# CONCRETE SLOPE COLLAR CONCRETE SLOPE COLLAR CONCRETE CUTOFF WALL EL. 929.66 'IAT' GRADE T'-10 %" T'-10 %" T'-10 %" EL. 929.33 PIPE INVERT

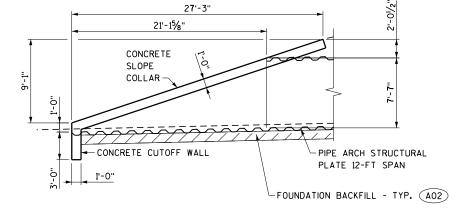
# STA 0+08.39 EL 927.09 % % STA 1+24.39 EL 929.66

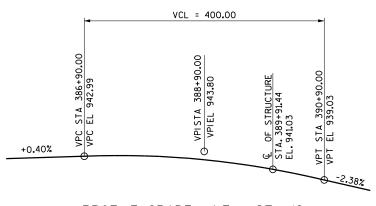
# SOUTH COLLAR ELEVATION LOOKING AT FRONT FACE

### NORTH COLLAR ELEVATION

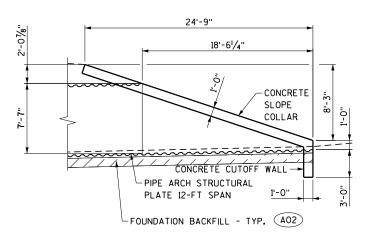
LOOKING AT FRONT FACE

# PROFILE GRADE LINE - ICE AGE TRAIL 'IAT'



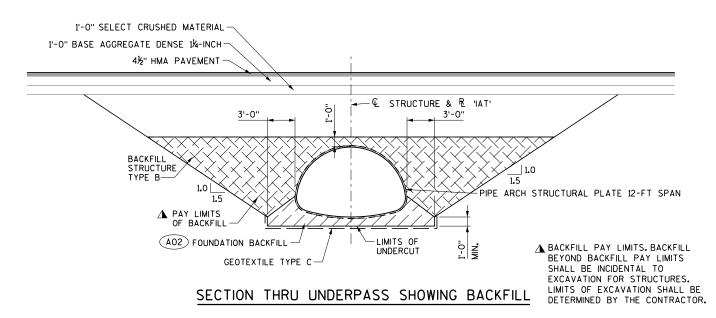


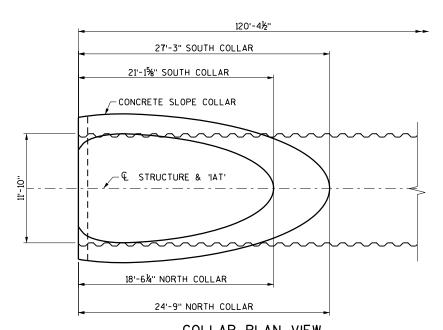
SOUTH COLLAR SIDE ELEVATION



## NORTH COLLAR SIDE ELEVATION

# PROFILE GRADE LINE - STH 19





# <u>LEGEND</u>

- AO1 4" MAX. BASE AGGERATE DENSE 1 1/4"
- (AO2) FOUNDATION FILL COST INCIDENTAL TO BID ITEM PIPE ARCH STRUCTURAL PLATE 12-FT SPAN.

AND QUANTITIES

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE C-14-3098

DRAWN CJM PLANS CKD.

CROSS SECTION SHEET 2 OF 3

COLLAR PLAN VIEW

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