



Purchasing Division
Finance Department
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Addendum 2
Solicitation 21-99268 Fairmount Snowmobile Trails

This addendum serves to notify all bidders of the following changes to the solicitation documents:

Please see the attached documents indicating changes to the plans, specs and bid items.

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation.

Posted: **March 11, 2021**



11 East Superior Street, Suite 420
Duluth, MN 55802
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March 10, 2021

Mr. Jim Shoberg, PLA
Senior Planner
City of Duluth—Facilities Management
1532 W. Michigan Street
Duluth, Minnesota 55806

Re: Amendment No. 2
Fairmount Snowmobile Trail
TKDA Project No. 17426.000

Dear Mr. Shoberg:

The following items are being modified in the Fairmount Snowmobile Trail plan.

- The large span culvert on the Keene Creek Alternate has been modified to be a closed floor structure with boulders (2' nominal size) placed across the floor. This modification eliminates the buried concrete foundations along the pipe walls.
- This addendum seeks to clarify that Culvert aprons are to be installed on the downstream side of all culverts as part of the base bid. Aprons on the upstream ends will be included in alternate 3.
- Riprap quantities for the trail culverts have been modified.
- This addendum updates the specifications to allow for additional pipe suppliers as long as their product meets the material and performance specifications.

This addendum provides additional information to the Fairmount Trail bid documents. Contractors shall acknowledge receipt of addendum No. 2 as of their bid package. Thank you Jim,

Sincerely,


Will DeRocher, PE
Project Manager

SP-8.2 Definitions

- A. Owner - In these specifications the word "Owner" shall mean INSERT OWNER NAME OR PURCHASER.
- B. Engineer - In these specifications the word "Engineer" shall mean the Engineer of Record or Owner's designated engineering representative.
- C. Manufacturer - In these specifications the word "Manufacturer" shall mean CONTECH Construction Products Inc. or approved equal.
- D. Contractor - In these specifications the word "Contractor" shall mean the firm or corporation undertaking the execution of any installation work under the terms of these specifications.
- E. Approved - In these specifications the word "approved" shall refer to the approval of the Engineer or his designated representative.
- F. As Directed - In these specifications the words "as directed" shall refer to the directions to the Contractor from the Owner or his designated representative.

SP-8.3 General Conditions

- A. The Contractor shall furnish all labor, material and equipment and perform all work and services except those set out and furnished by the Owner, necessary to complete in a satisfactory manner the site preparation, excavation, filling, compaction, grading as shown on the plans and as described therein. This work shall consist of all mobilization clearing and grading, grubbing, stripping, removal of existing material unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and compaction of the fill, and all subsidiary work necessary to complete the grading of the cut and fill areas to conform with the lines, grades, slopes, and specifications. This work is to be accomplished under the observation of the Owner or his designated representative.
- B. Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work.
- C. If conditions other than those indicated are discovered by the Contractor, the Owner shall be notified immediately. The material which the Contractor believes to be a changed condition shall not be disturbed so that the owner can investigate the condition.
- D. The construction shall be performed under the direction of the Engineer.
- E. All aspects of the structure design and site layout including foundations, backfill, end treatments and necessary scour consideration shall be performed by the Engineer.
- F. Any installation guidance provided herein shall be endorsed by the Engineer or superseded by the Engineer's plans and specifications.

PLOT DATE: Mar 10, 2021 - 8:19am
 FILENAME: K:\a\iduluth_City\1742600\04_Production\01_CAD\02_Sheets\2 STATEMENT OF ESTIMATED QUANTITIES.dwg

ITEM NO.	MnDOT SPEC NUMBER	NOTES	DESCRIPTION	UNIT	BASE QUANTITY	RALEIGH ST CREEK ALT 1	KEENE CREEK ALT 2	ALT 3
1	2021.501		MOBILIZATION	LS	1			
2	2101.501	1	CLEARING & GRUBBING	LS	1			
3	2104.601	8	REMOVE REGULATED WASTE MATERIAL (BRIDGE)	LS		1		1
4	2105.507	3	COMMON EXCAVATION (CV) (P)	CY	645			
5	2105.507	3	COMMON BORROW (CV) (P)	CY	631			
6	2105.507	7	COMMON BORROW (CV) (P)	CY	480	300	130	
7	2412.603		11'-7" SPAN x 5' RISE BOX CULVERT	LF			36	
8	2501.502		12" GS PIPE APRON	EACH	6			6
9	2501.502		24" GS PIPE APRON	EACH	2			2
10	2501.502		42" GS PIPE APRON	EACH	1	4		1
11	2501.502		64" SPAN CS PIPE - ARCH APRON	EACH		2		
12	2501.503		64" SPAN CS PIPE - ARCH CULVERT	LF		30		
13	2503.503	2	12" CP PIPE SEWER (SMOOTH)	LF	168			
14	2503.503	2	24" CP PIPE SEWER (SMOOTH)	LF	58			
15	2503.503	2	42" CP PIPE SEWER (SMOOTH)	LF	43	60		
16	2511.507		RANDOM RIPRAP CLASS III	CY	57	44	21	
17	2511.507		GRANULAR FILTER	CY		58		
18	2557.602		TRAIL GATE DESIGN SPECIAL	EACH				2
19	2564.618	6	SIGN TYPE C	SF				17
20	2571.524		DECIDUOUS TREE 12" HT SEEDLING	TREE	20	8	8	
21	2571.524		CONIFEROUS TREE 12" HT SEEDLING	TREE	20	12	12	
22	2573.501	4	STABILIZED CONSTRUCTION EXIT	EACH	2			
23	2573.602		ROCK DITCH CHECK	EACH	6			
24	2573.503	3	SEDIMENT CONTROL BERM	LF	1560			
25	2575.504	5	ROLLED EROSION PREVENTION CATEGORY 25	SY	14344	270	200	
26	2757.505	5	SEEDING	ACRE	3.0	0.6	0.4	
27	2575.508	5	SEED MIXTURE 36-311	LB	100			
28	2575.508	5	SEED MIXTURE 34-361 (RIPARIAN NORTHEAST BWSR R1)	LB	4	20	10	

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 SIGNATURE: *Will Derocher* DATE: 02/19/21
 PRINTED NAME: WILL DEROCHE LIC. NO.: 54757



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STATEMENT OF ESTIMATED QUANTITIES

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	12" HDPE	24" HDPE	42" HDPE	64" SPAN	11'-7" SPAN	CLASS III RIPRAP
STATION	LF	LF (Min Slope)	LF (Min Slope)	LF	LF	CY
2+45	28					4
5+96	28					4
8+62		34 (3.2%)				8
24+85	28					4
30+62			60	30		43
39+07			43 (2.5%)			16
46+96	28					4
55+85		24 (2.5%)				8
58+60	28					4
59+95	28					4
65+70					36	21
TOTAL	168	58	103	30	36	122

CONSTRUCTION NOTES:

- CONTRACTOR TO DO NECESSARY GRUBBING FOR AND CULVERT INSTALLATION. SNOWMOBILE CLUB WILL CLEAR TRAIL ALIGNMENT. CONTRACTOR WILL CLEAR AREAS NECESSARY FOR CONSTRUCTION ACCESS AND STRUCTURE INSTALLATION. ANY SUBSTANTIAL TREES WILL BE SUBJECT TO THE CITY OF DULUTH UDC TREE REPLACEMENT REQUIREMENTS. REPLACEMENT TREES WILL BE CONSIDERED INCIDENTAL TO THE CLEARING PAY ITEM. IN ACCORDANCE WITH GUIDANCE FROM MnDOT, MnDNR AND U.S. FISH AND WILDLIFE SERVICES, CLEARING ACTIVITIES SHALL BE COMPLETED PRIOR TO JUNE 1 OR SUSPENDED UNTIL AFTER JULY 31. CONTRACTOR TO MOVE ROCK FROM ROCK CUT AREAS OUTSIDE THE TRAIL CORRIDOR.
- CP PIPE SEWER PAY ITEM TO INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL STORM CULVERTS PER DETAIL. EXCAVATION, BACKFILL, AND EROSION CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM. RESTORATION OF DISTURBED AREA BEYOND THE TRAIL CORRIDOR SHALL BE CONSIDERED INCIDENTAL TO THE PIPE PAY ITEM.
- TRAIL SURFACE TO BE RESTORED TO VEGETATIVE COVER. PAY ITEM SHALL INCLUDED ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO SALVAGE EXISTING TOPSOIL, GRADE TRAIL CROSS SLOPE THEN RESTORE CORRIDOR WITH SEED AND BLANKET. TRAIL IS INTENDED FOR USE DURING WINTER MONTHS ONLY. THE PROJECT INTENT IS TO BALANCE MATERIALS EXCAVATED AND PLACED AS FILL ALONG THE CORRIDOR FOR THE PURPOSE OF GRADING.
- STABILIZED CONSTRUCTION EXITS SHALL BE INSTALLED ALONG ACCESS ROUTES TO PREVENT TRACKING ONTO PUBLIC ROADS. PAY ITEM SHALL INCLUDE INSTALLATION AND MAINTENANCE OF THE ACCESS POINT ALONG WITH SITE RESTORATION.
- RESTORATION PAY ITEMS INCLUDE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO RESTORE VEGETATION ALONG THE TRAIL CORRIDOR. SEED, PLANTING AND BLANKET NECESSARY TO RESTORE AREAS USE FOR BORROW OR SPOILS SHALL BE CONSIDERED INCIDENTAL TO THE COMMON EXCAVATION AND COMMON BORROW PAY ITEMS.
- SIGN TYPE C PAY ITEM SHALL INCLUDE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO FURNISH AND INSTALL TRAIL TRAFFIC WARNING SIGNS PER DETAIL 3/005. CONTRACTOR SHALL FURNISH AND INSTALL THE TREATED TIMBER POST, SIGN PANEL AND NECESSARY MOUNTING HARDWARE. A LIMITED NUMBER OF SIGNS IS AVAILABLE THROUGH THE MnDNR GRANT IN AID TRAIL PROGRAM. CONTRACTOR MUST PROVIDE AN APPROVED EQUAL IF SIGNS ARE NOT AVAILABLE THROUGH MnDNR GRANT IN AID PROGRAM.
- COMMON BORROW PAY ITEM TO INCLUDE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO IMPORT BORROW MATERIAL TO FILL SCoured SECTION OF TRAIL. CITY TO IDENTIFY AREAS ADJACENT TO TRAIL CORRIDOR WHERE BORROW MATERIAL MAY BE OBTAINED.
- REMOVE REGULATED WASTE MATERIAL (BRIDGE) PAY ITEM SHALL INCLUDE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO PROTECT THE UNDERLYING STREAM, REMOVE AND DISPOSE OF EXISTING BRIDGE RAILINGS, DECK AND SUPPORT STRUCTURE. SEE BRIDGE REPORTS INCLUDED IN THE SPECIFICATIONS FOR MORE INFORMATION REGARDING HAZARDOUS MATERIALS IDENTIFIED. CREOSOTE TIMBERS SHALL BE HAULED TO AN APPROVED REGULATED WASTE DISPOSAL FACILITY

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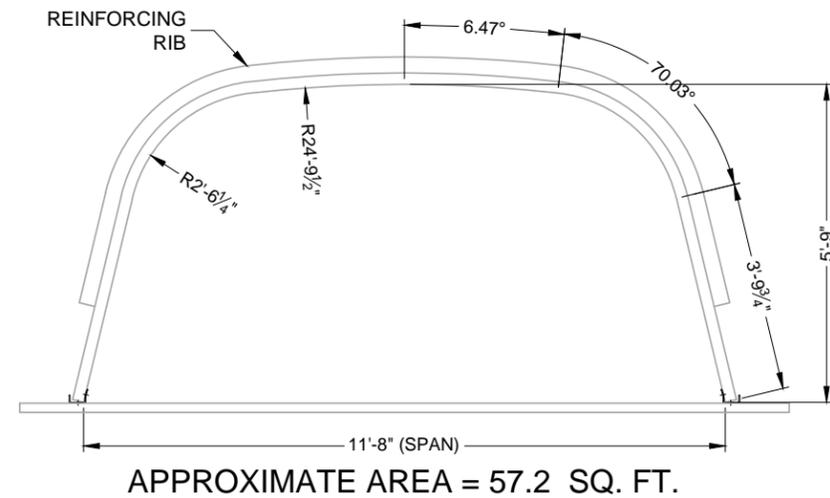
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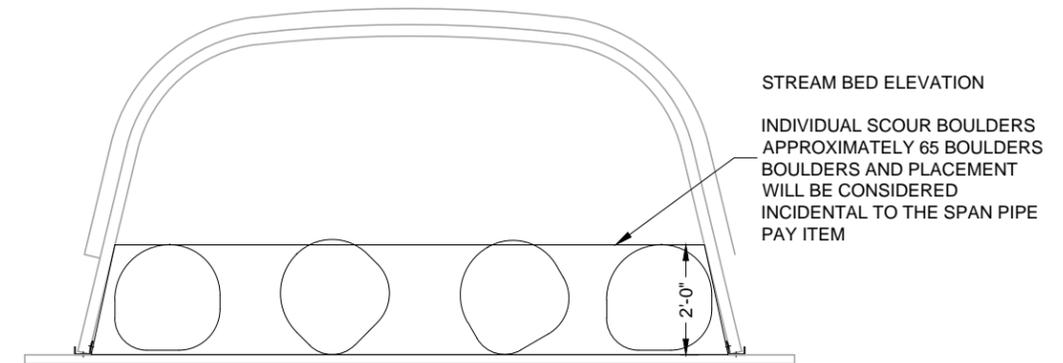
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CULVERT TABLE

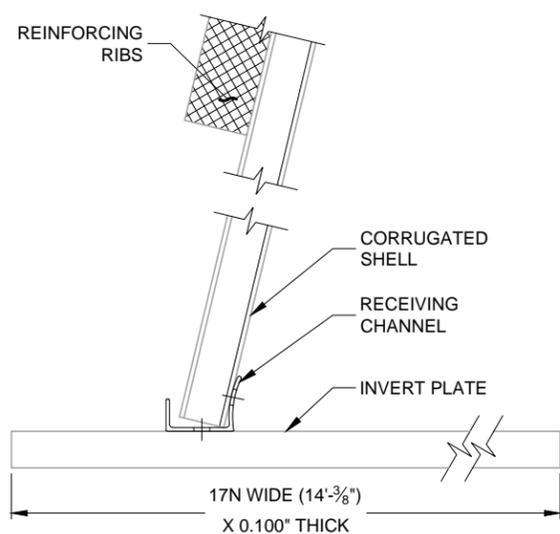
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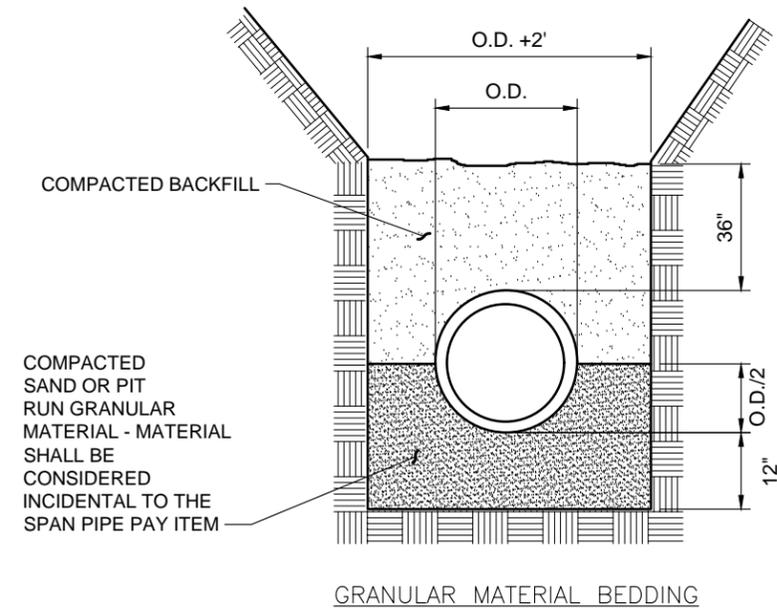
1 STANDARD SPAN CULVERT
007 NO SCALE



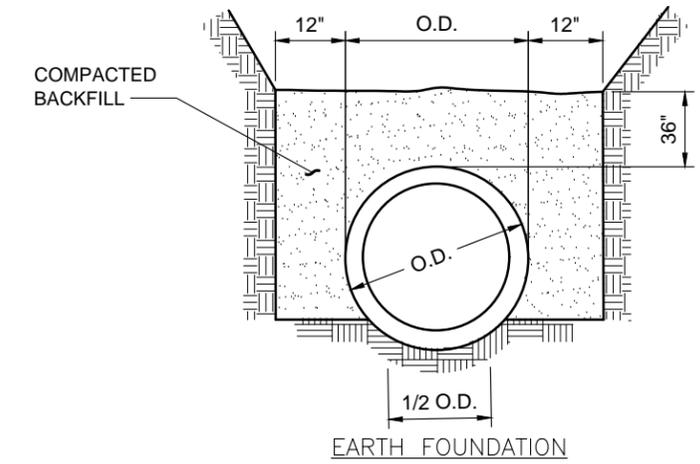
3 SPAN PIPE FISH PASSAGE BOTTOM
007 NO SCALE



2 SPAN CULVERT INVERT PLATE
007 NO SCALE



4 SPAN PIPE FOUNDATION DETAILS
007 NO SCALE



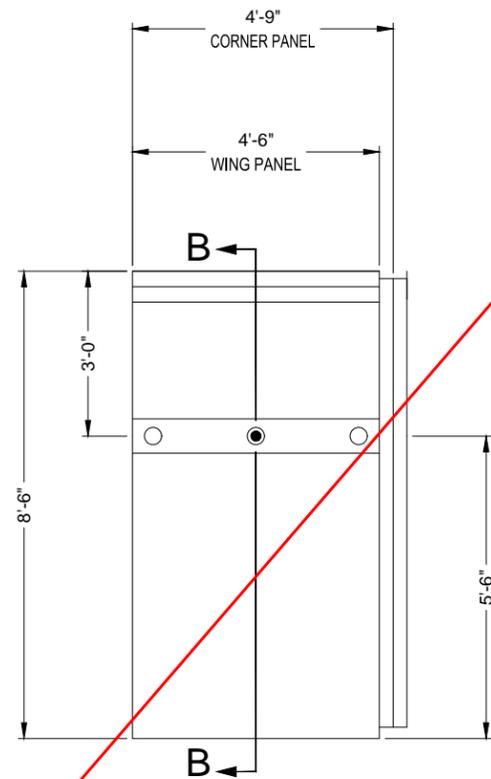
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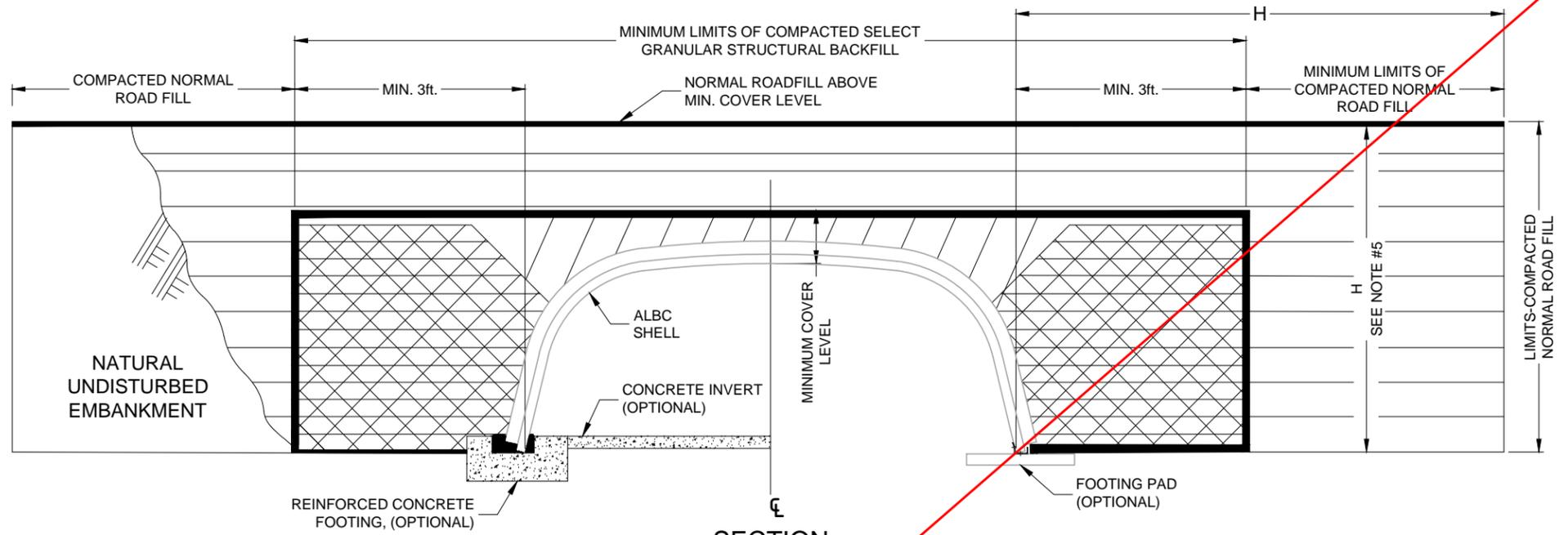
KEENE LARGE SPAN CULVERT - ALT 1 1 of 3

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NOTE: DIMENSIONS SHOWN ARE NOMINAL. FINISHED DIMENSIONS ARE SUBJECT TO MANUFACTURING AND INSTALLATION TOLERANCES.

1 CORNERS & END PANNELS
008 NO SCALE



-  CRITICAL BACKFILL ZONE, PRESSURE ON SOIL GREATEST HERE.
-  INITIAL LIFTS OVER CROWN OF STRUCTURE AS INDICATED BY SHADED AREA TO BE COMPACTED TO REQUIRED DENSITY WITH HAND OPERATED EQUIPMENT OR WITH SMALL TRACTOR (D-4 OR SMALLER) DRAWN EQUIPMENT.
-  SELECT GRANULAR STRUCTURAL BACKFILL LIMITS.

NOTES:

1. ALL SELECT GRANULAR BACKFILL TO BE PLACED IN A BALANCED FASHION IN THIN LIFTS (6"-8" LOOSE TYPICALLY) AND COMPACTED TO 90 PERCENT DENSITY PER AASHTO T-99.
2. COMPLETE AND REGULAR MONITORING OF THE ALUMINUM BOX CULVERT SHAPE IS NECESSARY DURING ALL BACKFILLING OF THE STRUCTURE.
3. PREVENT EXCESSIVE DISTORTION OF SHAPE AS NECESSARY BY VARYING COMPACTION METHODS AND EQUIPMENT.
4. TRENCH WIDTH OTHER THAN 3ft. SHALL BE BY DIRECTION OF THE ENGINEER OF RECORD.
5. "H" = STRUCTURE RISE + MAXIMUM ALLOWABLE COVER FOR SHAPE DESIGN SPECIFIED.

ADDITIONAL BACKFILL NOTES:

SATISFACTORY BACKFILL MATERIAL, PROPER PLACEMENT, AND COMPACTION ARE KEY FACTORS IN OBTAINING MAXIMUM STRENGTH AND STABILITY.

THE BACKFILL MATERIAL SHOULD BE FREE OF ROCKS, FROZEN LUMPS, AND FOREIGN MATERIAL THAT COULD CAUSE HARD SPOTS OR DECOMPOSE TO CREATE VOIDS. BACKFILL MATERIAL SHOULD BE WELL GRADED GRANULAR MATERIAL THAT MEETS THE REQUIREMENTS OF AASHTO M-145 FOR SOIL CLASSIFICATIONS A-1, A-2, A-3. BACKFILL MUST BE REPLACED SYMMETRICALLY ON EACH SIDE OF THE STRUCTURE IN 6" LOOSE LIFTS. EACH LIFT IS TO BE COMPACTED TO A MINIMUM OF 90% DENSITY PER AASHTO T-99.

A HIGH PERCENTAGE OF SILT OR FINE SAND IN THE NATIVE SOILS SUGGESTS THE NEED FOR A WELL GRADED GRANULAR BACKFILL MATERIAL TO PREVENT SOIL MIGRATION.

DURING BACKFILL, ONLY SMALL TRACKED VEHICLES (D-4 OR SMALLER) SHOULD BE NEAR THE STRUCTURE AS FILL PROGRESSES ABOVE THE CROWN AND TO THE FINISHED GRADE.

2 BACKFILL ZONE
008 NO SCALE

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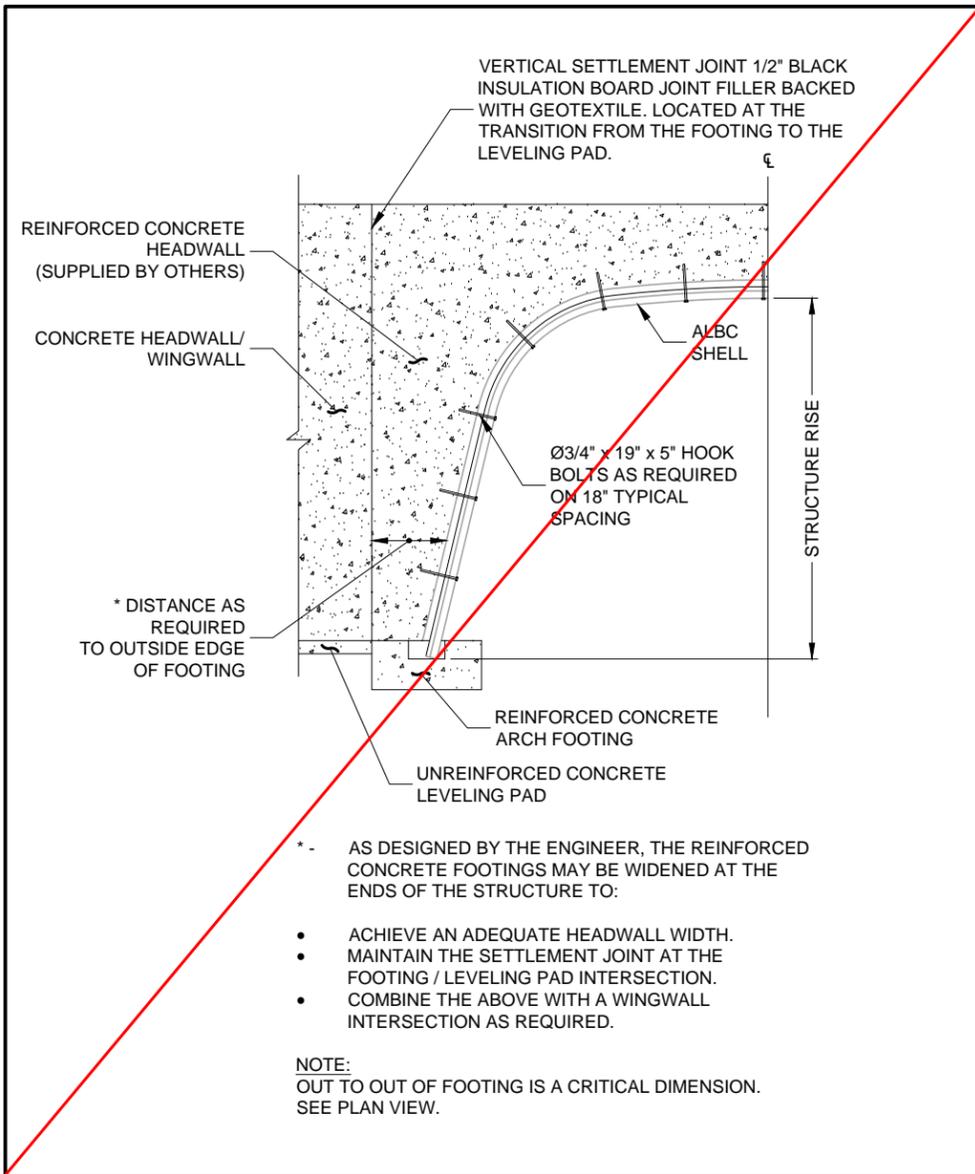
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KEENE LARGE SPAN CULVERT - ALT 1 2 of 3

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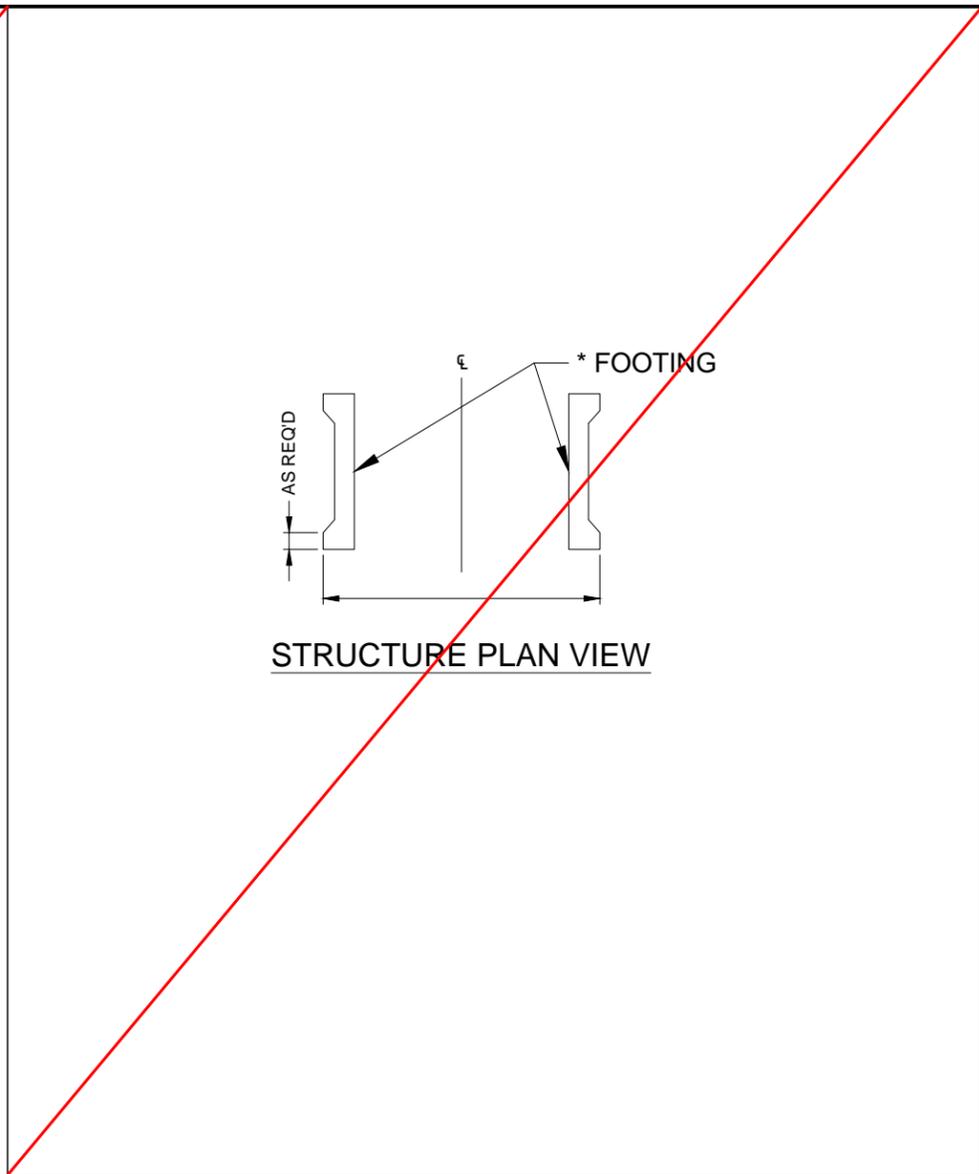
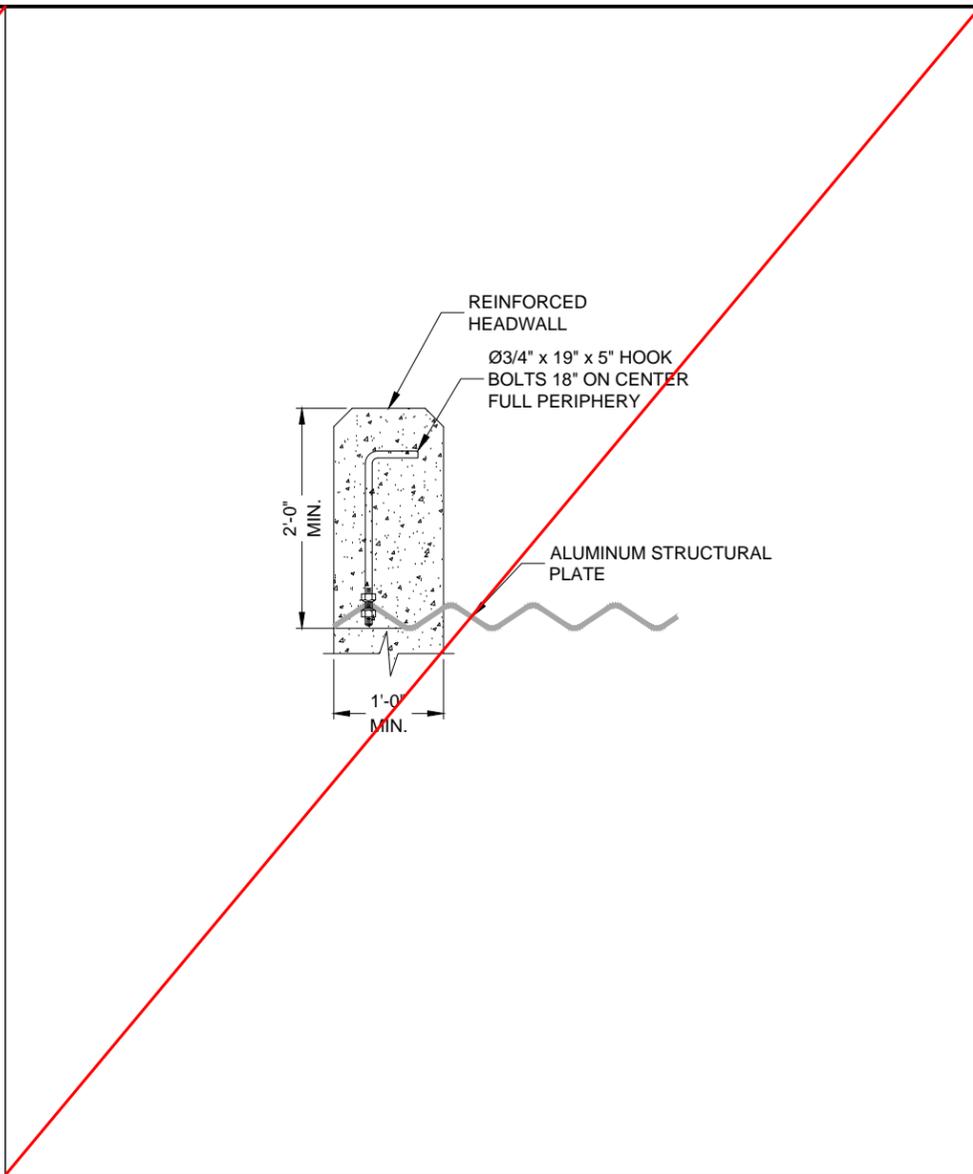
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* - AS DESIGNED BY THE ENGINEER, THE REINFORCED CONCRETE FOOTINGS MAY BE WIDENED AT THE ENDS OF THE STRUCTURE TO:

- ACHIEVE AN ADEQUATE HEADWALL WIDTH.
- MAINTAIN THE SETTLEMENT JOINT AT THE FOOTING / LEVELING PAD INTERSECTION.
- COMBINE THE ABOVE WITH A WINGWALL INTERSECTION AS REQUIRED.

NOTE:
 OUT TO OUT OF FOOTING IS A CRITICAL DIMENSION. SEE PLAN VIEW.



1 CIP HEADWALL
 009 NO SCALE

2 REINFORCED HEADWALL
 009 NO SCALE

2 REINFORCED HEADWALL LAYOUT
 009 NO SCALE

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