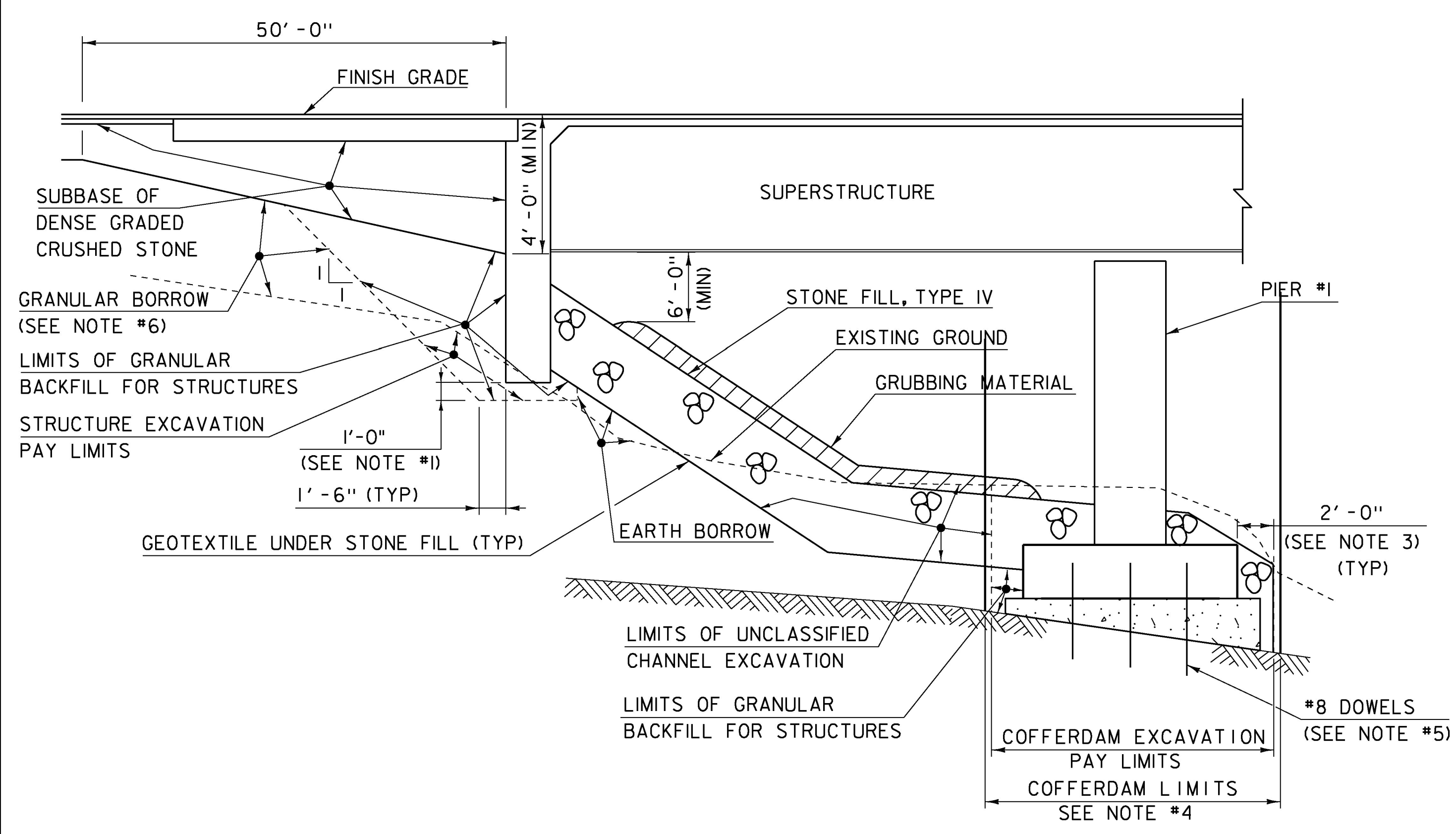


\* GRUBBING MATERIAL SHALL BE PLACED ON THE STONE FILL IN THE AREA UNDER THE BRIDGE WITH THE FOLLOWING GUIDELINES. NO GRUBBING MATERIAL BELOW OWH, NO GRUBBING MATERIAL 3 FEET HORIZONTALLY FROM FACES OF PROPOSED PIERS AND WING WALLS. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.

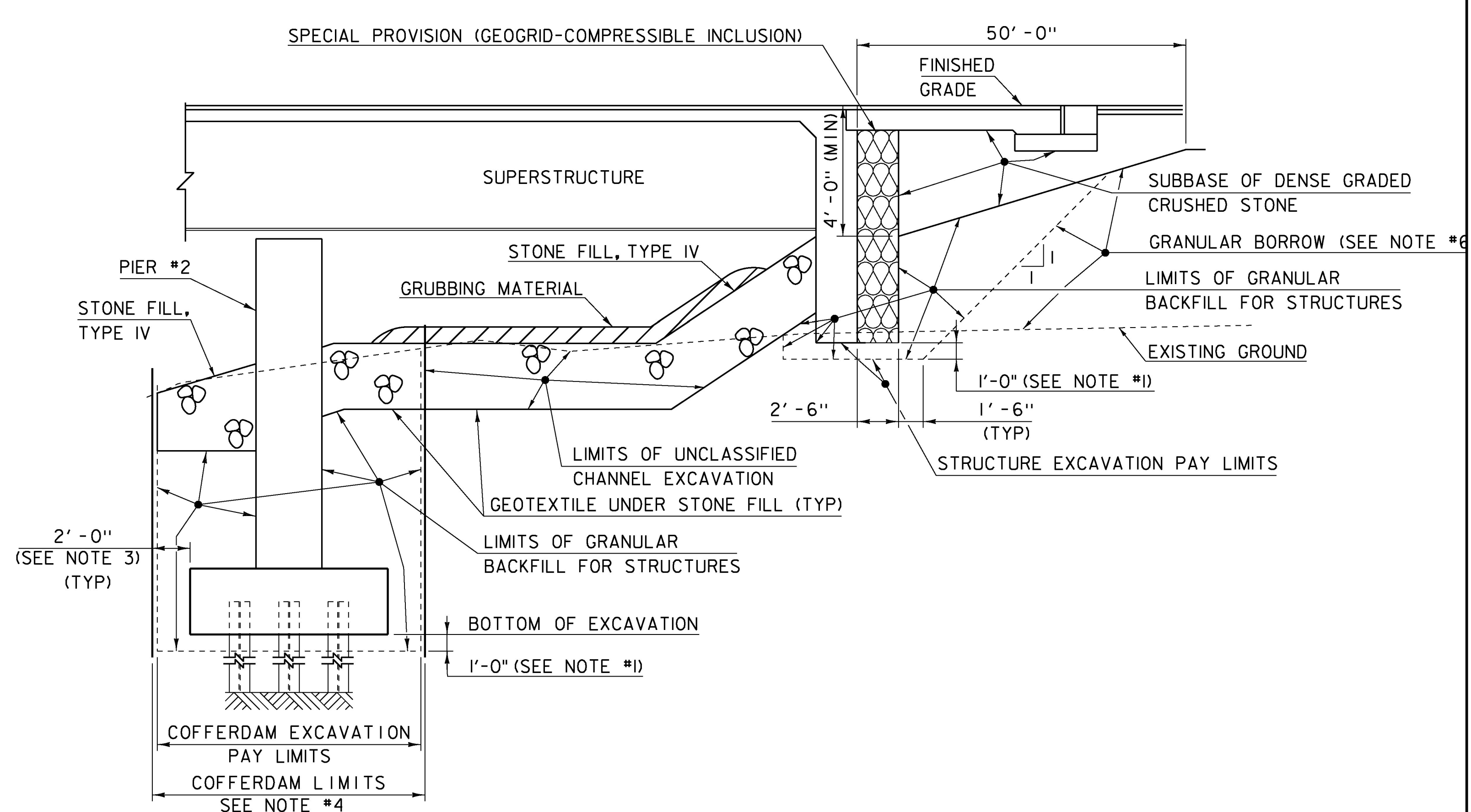
**NOTES:**

- ONE FOOT UNDERCUT AS DETERMINED NECESSARY BY THE ENGINEER.
- A MINIMUM OF 6-FT OF VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE BOTTOM OF THE SUPERSTRUCTURE TO ANY GRUBBING MATERIAL UNDER THE BRIDGE TO ALLOW FOR ACCESS DURING INSPECTION.
- THE PAY LIMITS OF THE COFFERDAM EXCAVATION ITEMS FOR THE PIERS SHALL BE 2FT OUTSIDE OF THE HORIZONTAL LIMITS OF THE FOOTING OR PILE CAP AND TO THE VERTICAL LIMITS DEFINED ON THE PLANS. NO CHANGES TO THESE PAY LIMITS WILL BE MADE FOR ENCOUNTERING OBSTRUCTIONS UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER. ANY EXCAVATION OUTSIDE OF THE IDENTIFIED PAY LIMITS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL DETERMINE THE COFFERDAM SIZE, INCLUDING ELEVATION LIMITS ABOVE AND BELOW GRADE. IF A COFFERDAM IS CONSTRUCTED WHICH IS LARGER THAN THE INDICATED COFFERDAM EXCAVATION PAY LIMITS, PAYMENT FOR ALL UNCLASSIFIED CHANNEL EXCAVATION, INCLUDING THAT PORTION WHICH IS INSIDE THE COFFERDAM BUT OUTSIDE THE COFFERDAM PAY LIMITS, WILL BE MADE AT THE CONTRACT UNIT PRICE FOR UNCLASSIFIED CHANNEL EXCAVATION. NO MEASUREMENT AND PAYMENT WILL BE MADE FOR COFFERDAM EXCAVATION AND GRANULAR BACKFILL FOR STRUCTURES OUTSIDE THE PAY LIMITS DEFINED IN NOTE 3.

- DOWELS SHALL BE DRILLED AND GROUTED INTO BEDROCK AS SHOWN ON THE "PIER #1 ELEVATION AND TYPICAL" SHEETS. THE DOWELS SHALL BE #8 BARS, EXTENDING 2 FT INTO LEDGE, THROUGH THE SUBFOOTING (IF APPLICABLE), AND EXTEND 1FT INTO THE PIER FOOTING. THE DOWELS SHALL BE SPACED AND EMBEDDED AS SHOWN ON THE PLANS. PAYMENT WILL BE MADE UNDER ITEM 507.16, "DRILLING AND GROUTING DOWELS." AN ESTIMATED QUANTITY OF ITEMS 507.16 AND 507.11 HAVE BEEN INCLUDED IN THE CONTRACT.
- ITEM 203.32 "GRANULAR BORROW" WILL BE USED AS FILL BEHIND THE GRANULAR BACKFILL FOR STRUCTURES PAY LIMITS TO APPROXIMATELY 50FT FROM THE END OF THE BRIDGE. ADDITIONAL FILL REQUIREMENTS ON THE PROJECTS WILL BE SALVAGED FROM EXCAVATED MATERIAL AND ITEM 203.30 "EARTH BORROW." SEE EARTHWORKS SUMMARY ON QUANTITY SHEETS.



ABUTMENT #1 AND PIER #1 EARTHWORK TYPICAL  
(NOT TO SCALE)



ABUTMENT #2 AND PIER #2 EARTHWORK TYPICAL  
(NOT TO SCALE)

PROJECT NAME:	MORRISTOWN
PROJECT NUMBER:	BRS 0240(3)S/STP HES 030-2(28)
FILE NAME:	s78f329+yp.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	J. OLUND
EARTHWORKS TYPICAL SECTIONS	
PLOT DATE:	12-APR-2017
DRAWN BY:	G. ROKES
CHECKED BY:	T. POULIN
SHEET	9 OF 175