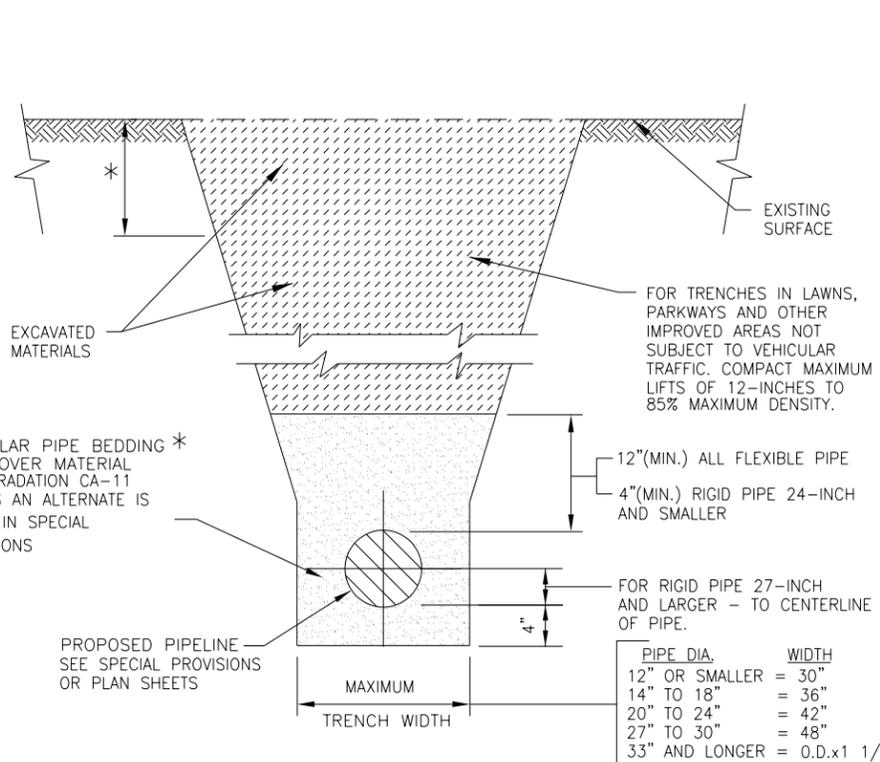


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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM  
 5500 W. 117th Street, Suite 200, Mokena, IL 60449  
 815-481-1100 FAX 815-481-1101  
 11/12/2013 3:02:05 PM  
 I:\CrystalLake\NPPWD\110789-R1\73 MW\CADD\Drawings\110789-WaterMain-Details.dgn



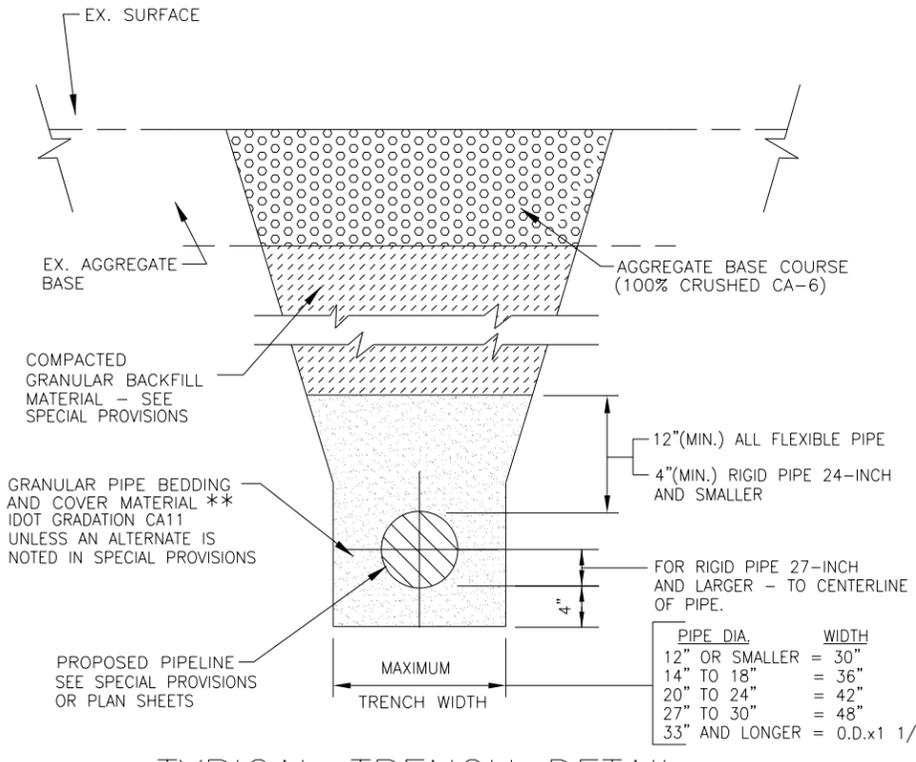
**TYPICAL TRENCH DETAIL**

NO SCALE

FOR NON-PAVED AREAS

\* FOR FLEXIBLE THERMOPLASTIC OR HDPE PIPE COMPLY WITH ASTM 2321, CLASS I OR II.

FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.



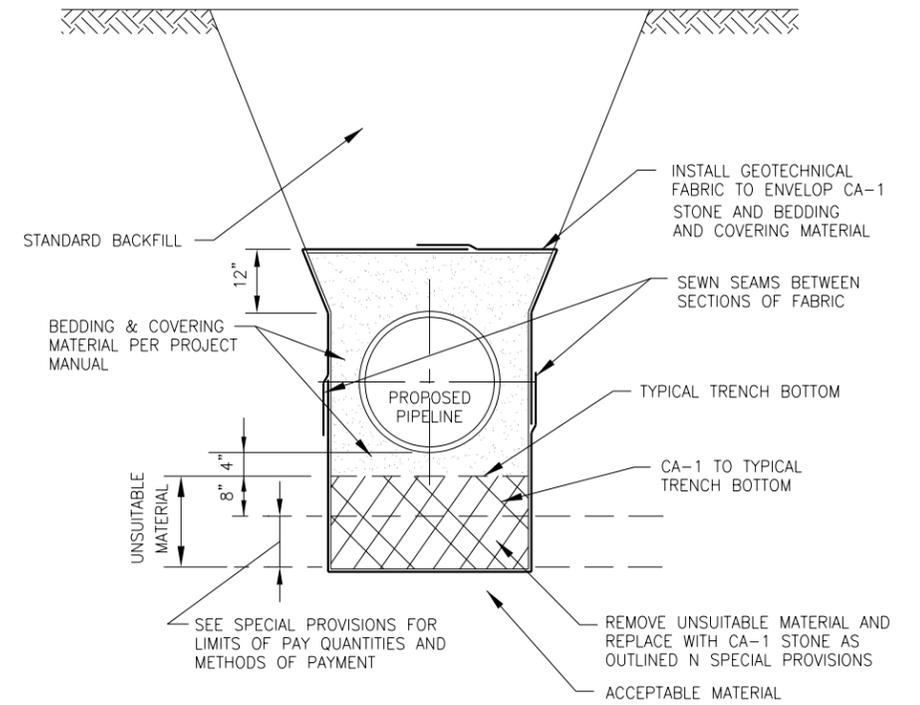
**TYPICAL TRENCH DETAIL**

NO SCALE

FOR PAVED AREAS WITH AGGREGATE BASE AND COMPACTED GRANULAR BACKFILL MATERIAL

\*\* FOR FLEXIBLE THERMOPLASTIC PIPE COMPLY WITH ASTM D2321, CLASS IA, IB, OR II., (IDOT GRADATION CA15)

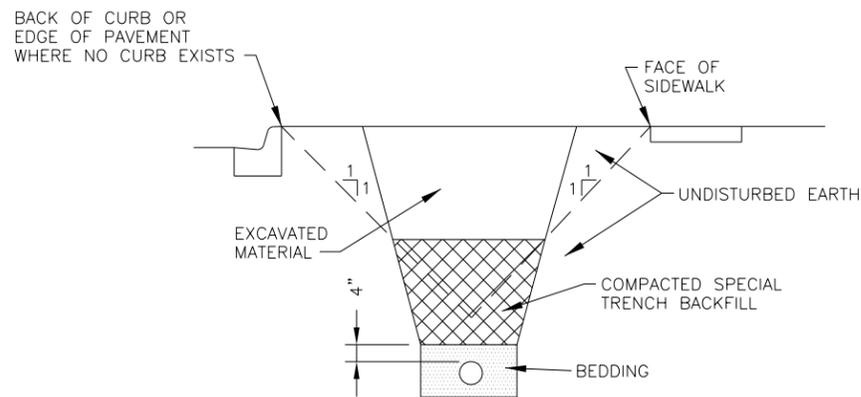
FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.



**OPEN CUT PIPELINE INSTALLATION**

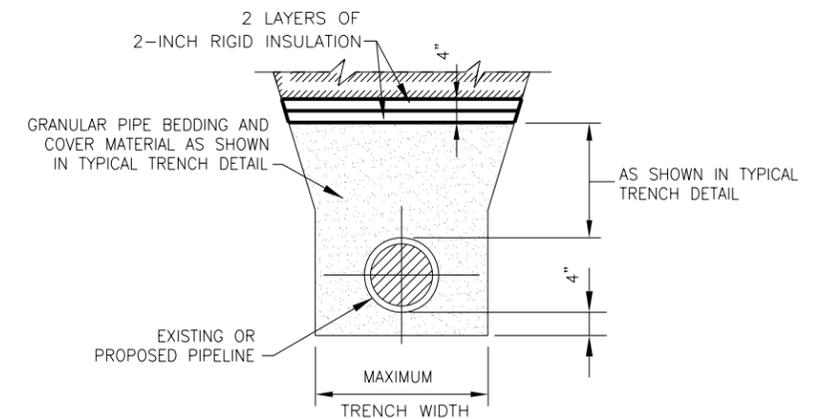
**UNSUITABLE MATERIAL REMOVAL/REPLACEMENT DETAIL**

NO SCALE



**LIMITS OF SPECIAL TRENCH BACKFILL FOR EXCAVATION IN THE PROXIMITY OF PAVED SURFACES**

NO SCALE



**PIPE INSULATION DETAIL**

NO SCALE



DESIGNED - MPK	REVISED -
DRAWN - KAR	REVISED -
CHECKED - MPK	REVISED -
DATE - APRIL 30, 2013	FILE - 110789-WaterMain-Details.dgn

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**NORTH PARK PUBLIC WATER DISTRICT  
ROUTE 173 WATER MAIN RELOCATION  
WATER MAIN REPLACEMENT DETAILS**

SCALE: NONE

STA. TO STA.

F.A.P. 303	SECTION 129R	COUNTY WINNEBAGO	TOTAL SHEETS 968	SHEET NO. 480
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		