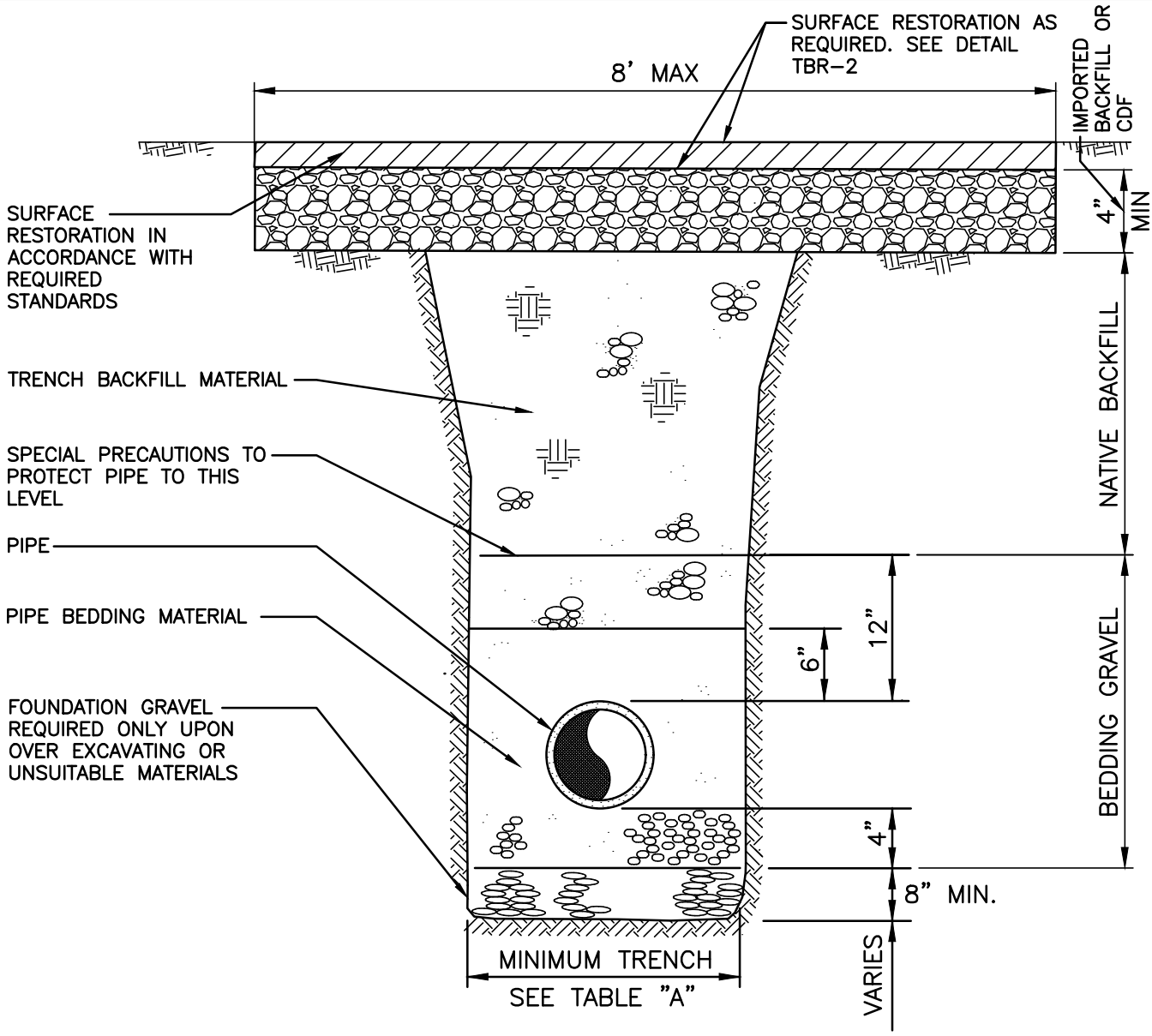
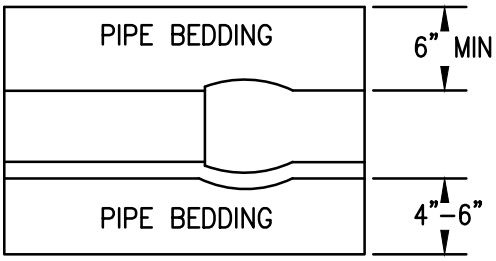


TABLE "A"

6"	PIPE	-2'-6"
8"	PIPE	-2'-6"
10"	PIPE	-3'-0"
12"	PIPE	-3'-0"
16"	PIPE	-3'-6"
18"	PIPE	-4'-0"
24"	PIPE	-4'-0"

TRENCH BOTTOM DETAIL



KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. NO TEMPORARY SUPPORTS I.E. BLOCKS, ALLOWED TO SUPPORT PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.

NOTES:

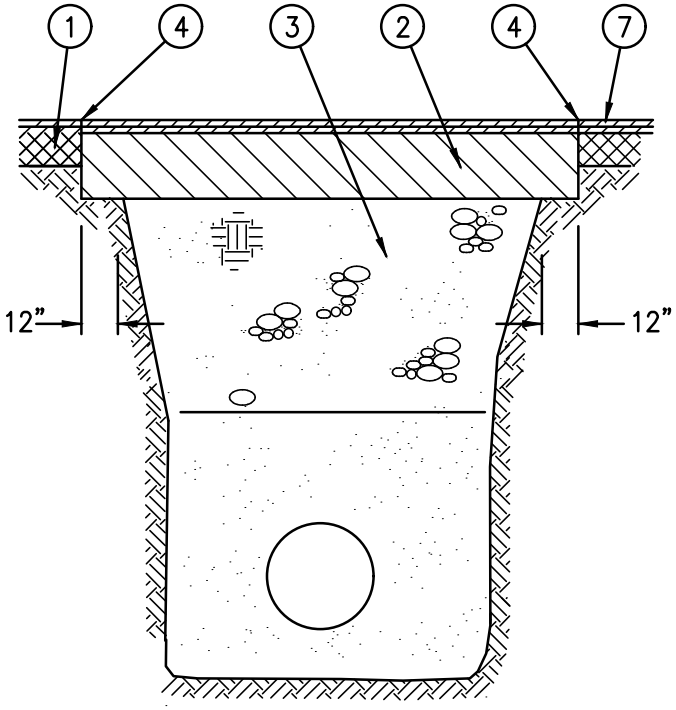
1. REFERENCE SNOHOMISH COUNTY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS, SECTION 8.
2. SURFACE RESTORATION IN ACCORDANCE WITH SNOHOMISH COUNTY REQUIREMENTS.
3. MAXIMUM TRENCH WIDTH:
   15" DIAMETER PIPE AND SMALLER = 40"
   16" DIAMETER PIPE AN SMALLER = 1-1/2 x I.D. + 18"

CROSS VALLEY WATER DISTRICT
TRENCH BACKFILL AND RESTORATION

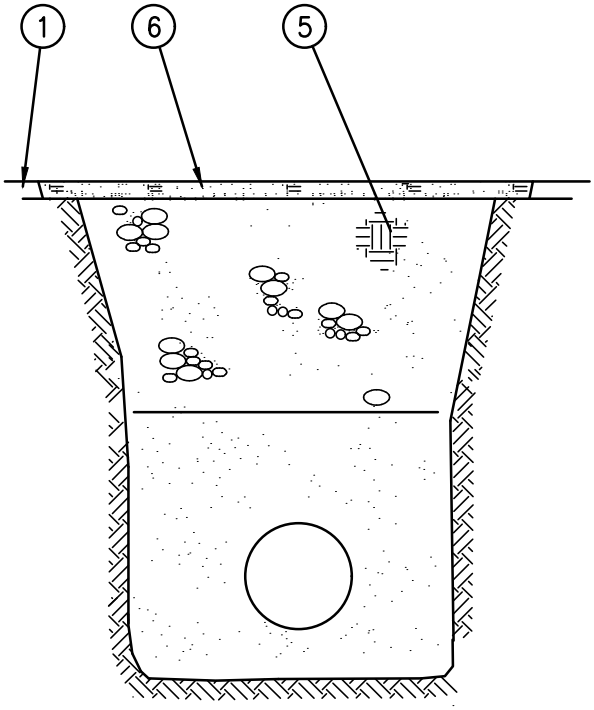
TRENCH SECTION – PIPE BEDDING AND TRENCH BACKFILL

TBR-1	NOT TO SCALE	FEB 2022

FILE NAME: \\K-FS1\LIBRARY\CAD\DETAILS\DISTRICTS\CROSS VALLEY WATER DISTRICT\TBR-1.DWG



ACP RESTORATION



UNPAVED SHOULDER
AND PRIVATE EASEMENT

(1) EXISTING SURFACE

(2) LONGITUDINAL TRENCH – 6" HMA CLASS 1/2" OR 2" HMA CLASS 1/2" + 4" HMA CLASS 1"
TRANSVERSE TRENCH – 8" HMA CLASS 1/2" OR 2" HMA CLASS 1/2" + 6" HMA CLASS 1"

(3) TRENCH BACKFILL OR CONTROL DENSITY FILL PER LOCAL JURISDICTIONAL REQUIREMENTS.

(4) NEAT LINE ACP CUT. TACK EDGES WITH AR 4000 ASPHALT CEMENT. SEAL EDGES WITH AR 4000 ASPHALT CEMENT.

(5) TRENCH BACKFILL.

(6) RESTORE EXISTING SURFACE. TOP SOIL, CSTC (2" MINIMUM) OR AS NOTED ON PLANS.

(7) 2" HMA CLASS 1/2" OVERLAY WHEN SPECIFIED ON PLANS OR REQUIRED BY THE JURISDICTIONAL AUTHORITY.

HMA=	HOT MIX ASPHALT
AR=	ASPHALT RUBBER
CSTC=	CRUSHED SURFACE TOP COURSE
ACP=	ASPHALT CONCRETE PAVEMENT

NOTES:

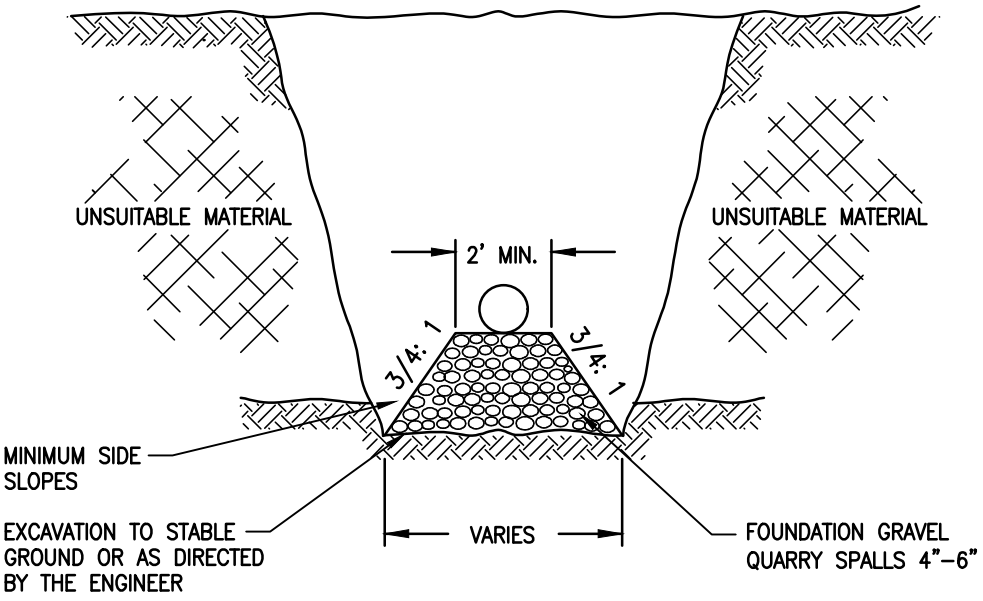
1. RESTORATION TO BE EXISTING CONDITION OR BETTER.
2. ALL WORK TO COMPLY WITH SNOHOMISH COUNTY REQUIREMENTS.
3. IF PERMEABLE SURFACE IS REQUIRED, INSTALL OR REPLACE IN KIND ACCORDING TO JURISDICTIONAL REQUIREMENTS.

CROSS VALLEY WATER DISTRICT
TRENCH BACKFILL AND RESTORATION

TRENCH SURFACE RESTORATION

TBR–2	NOT TO SCALE	FEB 2022

FILE NAME: \\K-FS1\LIBRARY\CAD\DETAILS\DISTRICTS\CROSS VALLEY WATER DISTRICT\TBR-2.DWG

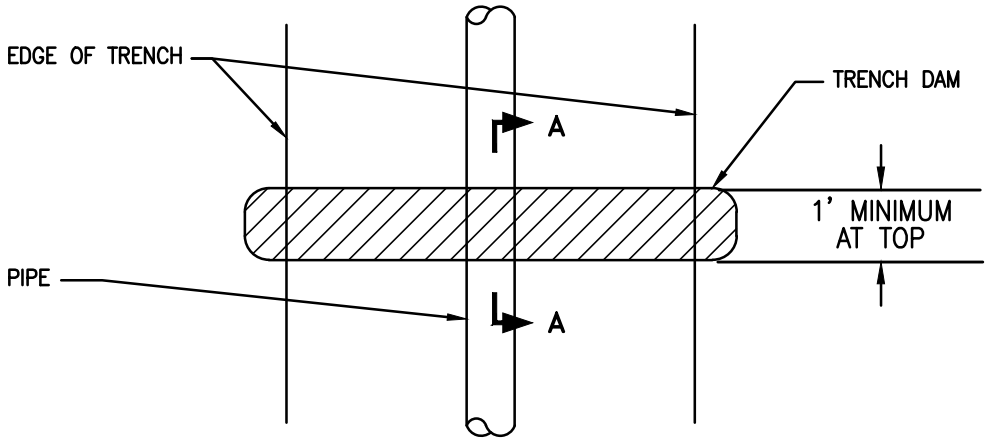


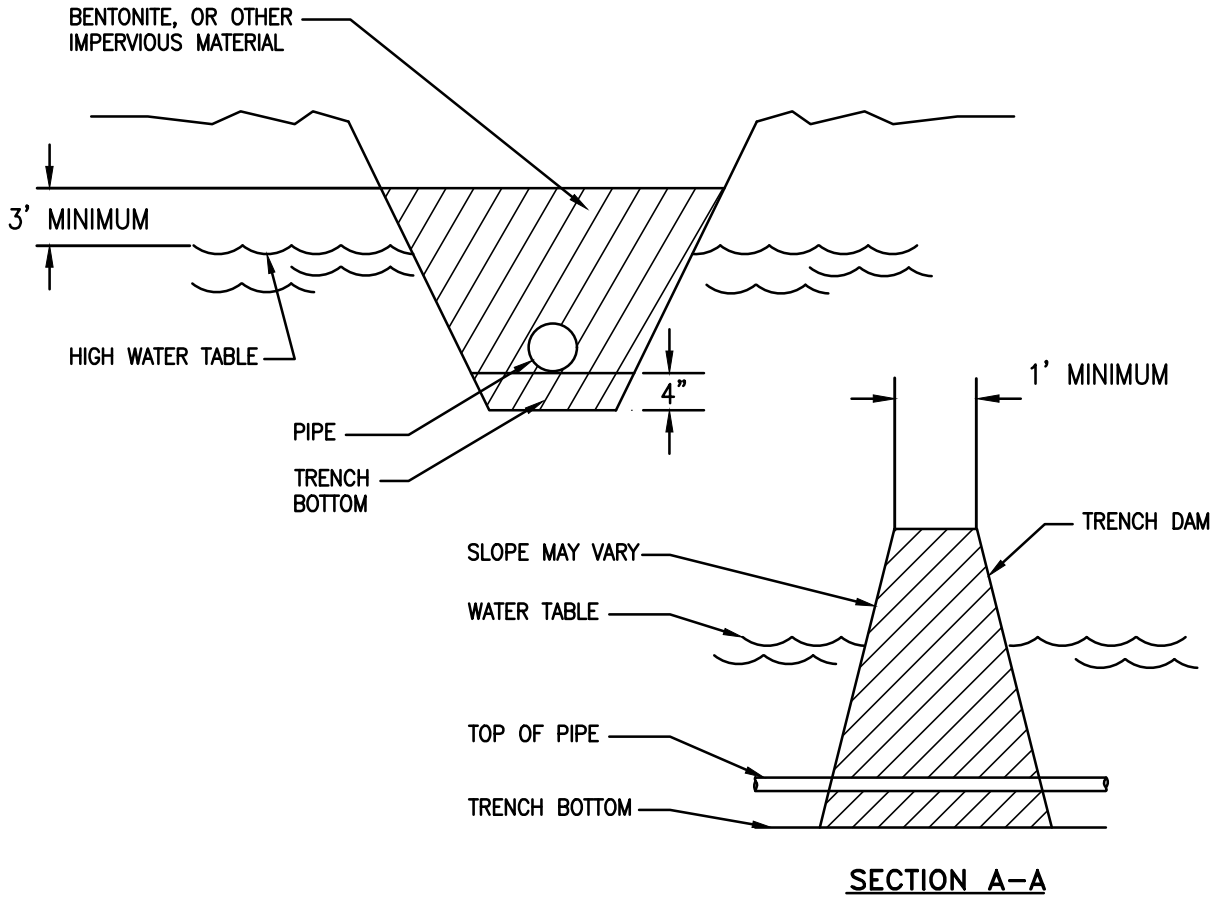
NOTES:

1. OVER EXCAVATION REQUIRED WHEN UNSUITABLE FOUNDATION MATERIALS ENCOUNTERED.
2. STRICTLY COMPLY WITH ALL TRENCH SAFETY SYSTEM REQUIREMENTS.
3. RESTRAINED JOINT PIPE MAY BE REQUIRED AS DIRECTED BY THE DISTRICT.
4. BACKFILL TRENCH IN ACCORDANCE WITH SNOHOMISH COUNTY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS AND CVWD STANDARD DETAIL TBR–1.

CROSS VALLEY WATER DISTRICT TRENCH BACKFILL AND RESTORATION	UNSUITABLE FOUNDATION EXCAVATION		
	TBR–3	NOT TO SCALE	FEB 2022

FILE NAME: \\K-FS1\LIBRARY\CAD\DETAILS\DISTRICTS\CROSS VALLEY WATER DISTRICT\TBR-3.DWG





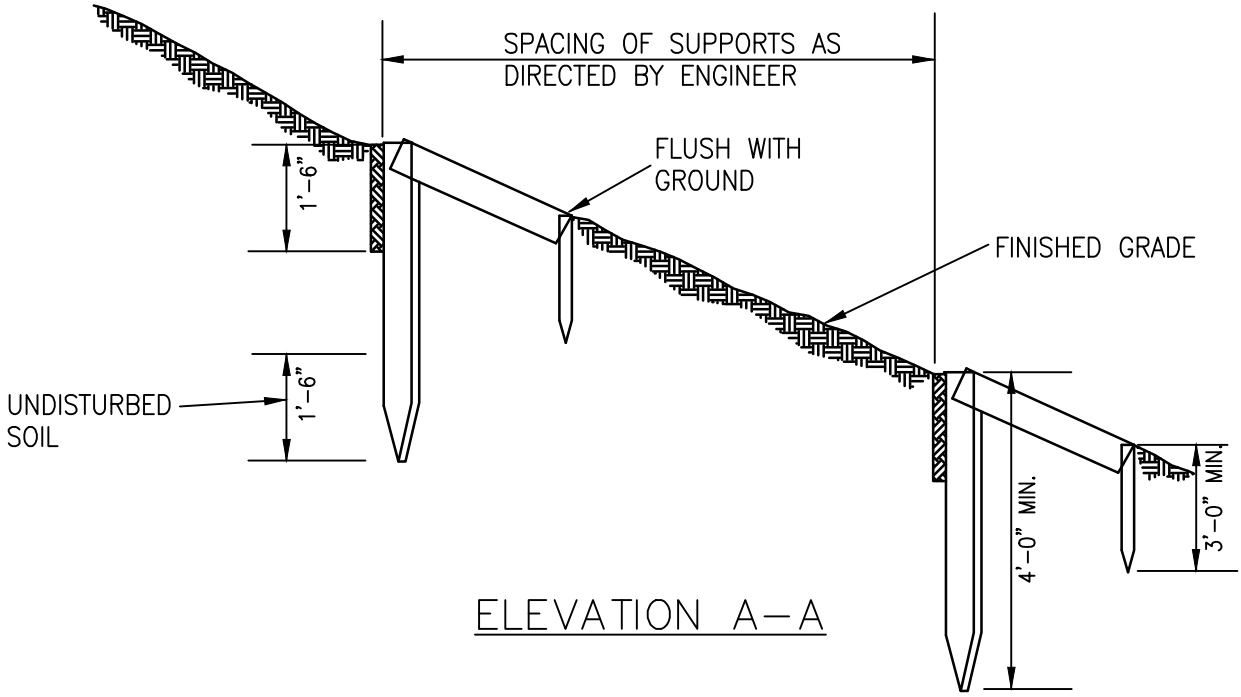
SECTION A–A

NOTES:

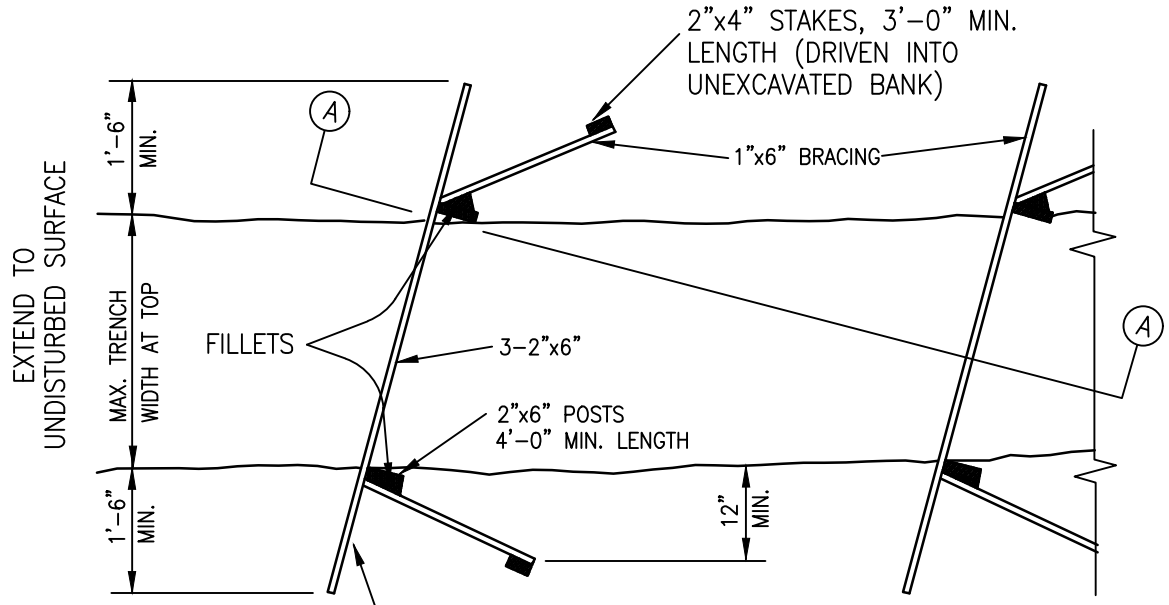
1. INSTALL IN HIGH GROUND WATER AREAS, ADJACENT TO WETLANDS AND STREAM CROSSINGS OR AS SHOWN ON PLANS OR AS DIRECTED BY THE DISTRICT.
2. ELEVATION AT TOP OF TRENCH DAM TO VARY BASED ON WATER TABLE AS DIRECTED BY THE DISTRICT.

CROSS VALLEY WATER DISTRICT TRENCH BACKFILL AND RESTORATION	TRENCH DAMS		
	TBR–4	NOT TO SCALE	FEB 2022

FILE NAME: \\K-FS1\LIBRARY\CAD\DETAILS\DISTRICTS\CROSS VALLEY WATER DISTRICT\TBR-4.DWG



ELEVATION A–A



PLAN

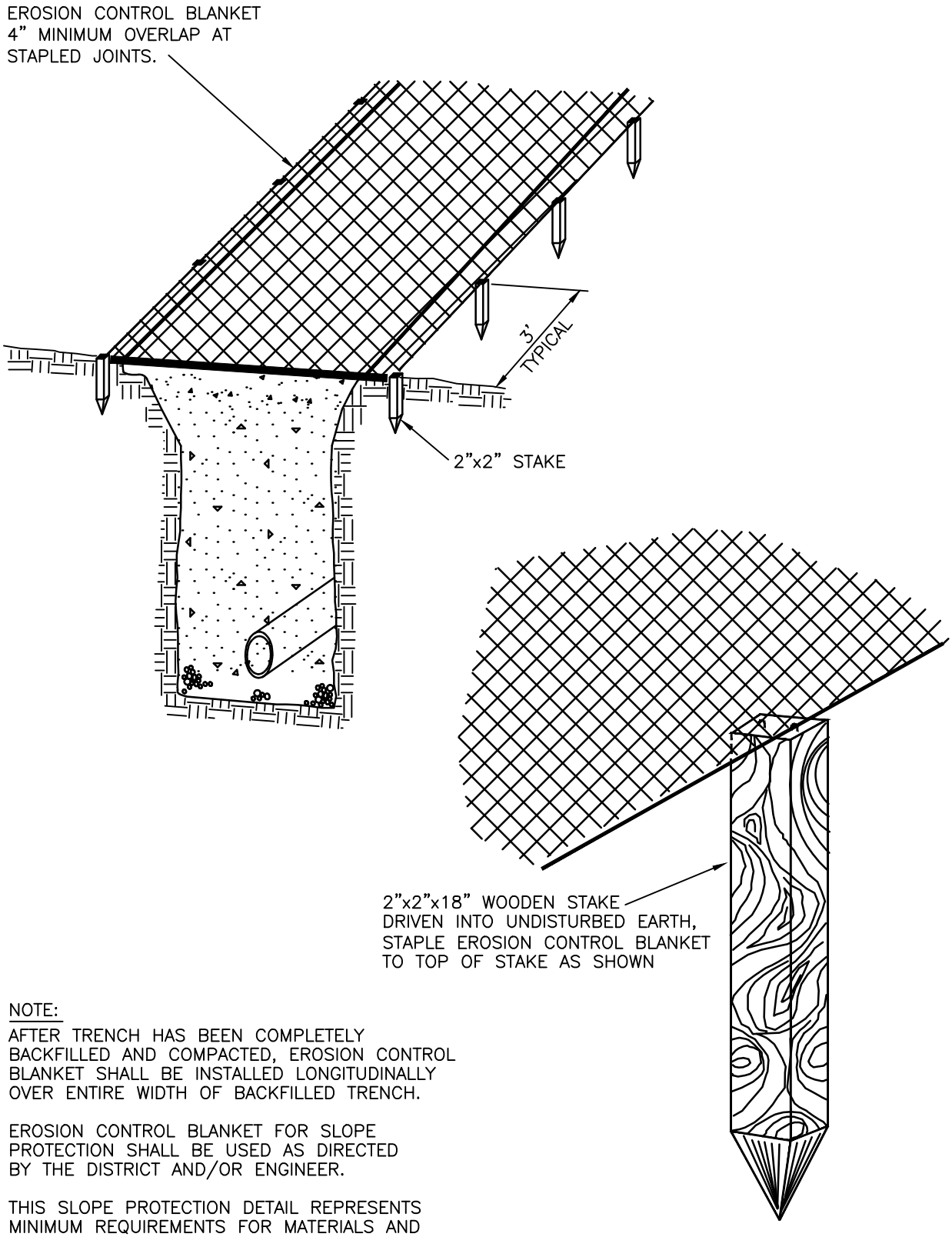
ONLY TOP 2"x6" BOARD EXTENDS FULL DISTANCE AS SHOWN. ALL OTHER BOARDS EXTEND TO FULL WIDTH OF TRENCH.

NOTE:

1" CROSS BOARDS AND BRACING TO BE SECURELY NAILED TO STAKES.

FILE NAME: \\K-FS1\LIBRARY\CAD\DETAILS\DISTRICTS\CROSS VALLEY WATER DISTRICT\TBR-5.DWG

CROSS VALLEY WATER DISTRICT TRENCH BACKFILL AND RESTORATION	TIMBER BACKFILL SUPPORTS		
	TBR-5	NOT TO SCALE	FEB 2022



NOTE:

AFTER TRENCH HAS BEEN COMPLETELY BACKFILLED AND COMPACTED, EROSION CONTROL BLANKET SHALL BE INSTALLED LONGITUDINALLY OVER ENTIRE WIDTH OF BACKFILLED TRENCH.

EROSION CONTROL BLANKET FOR SLOPE PROTECTION SHALL BE USED AS DIRECTED BY THE DISTRICT AND/OR ENGINEER.

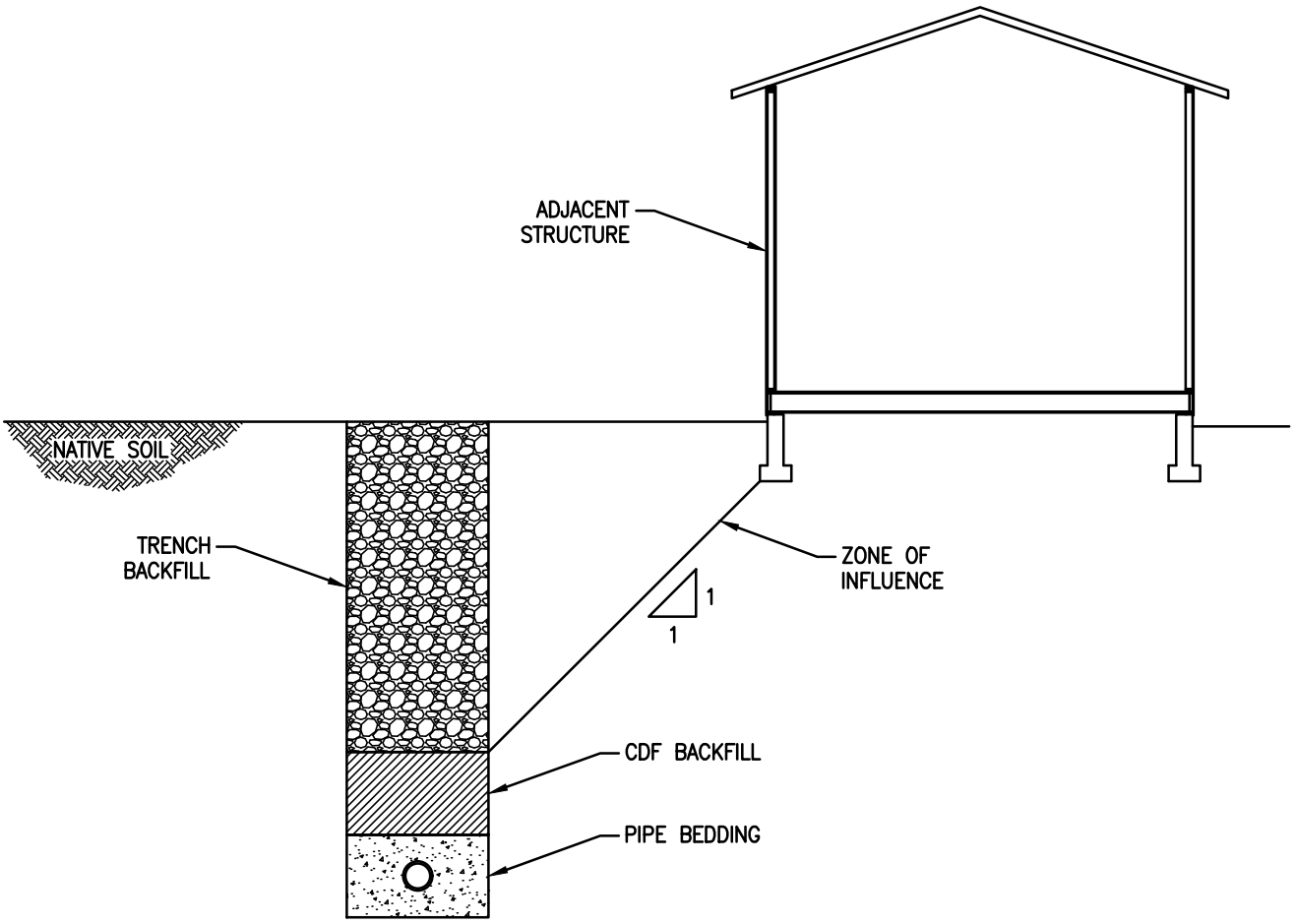
THIS SLOPE PROTECTION DETAIL REPRESENTS MINIMUM REQUIREMENTS FOR MATERIALS AND INSTALLATIONS.

CROSS VALLEY WATER DISTRICT
TRENCH BACKFILL AND RESTORATION

EROSION CONTROL BLANKET

TBR-6	NOT TO SCALE	FEB 2022

FILE NAME: \\K-FS1\LIBRARY\CAD\DETAILS\DISTRICTS\CROSS VALLEY WATER DISTRICT\TBR-6.DWG

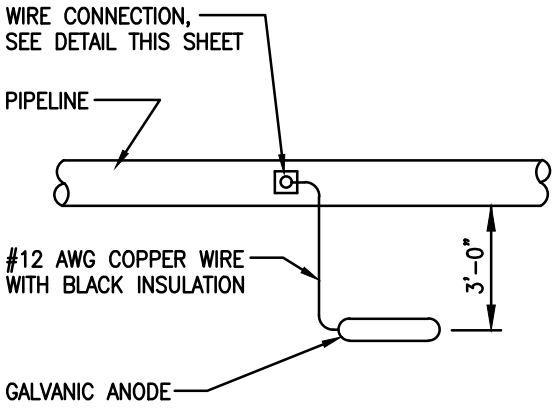


CROSS VALLEY WATER DISTRICT
TRENCH BACKFILL AND RESTORATION

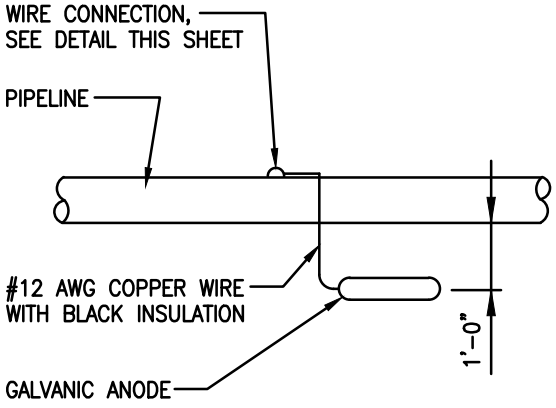
ZONE OF INFLUENCE

TBR-7	NOT TO SCALE	FEB 2022

FILE NAME: \\K-FS1\LIBRARY\CAD\DETAILS\DISTRICTS\CROSS VALLEY WATER DISTRICT\TBR-7.DWG



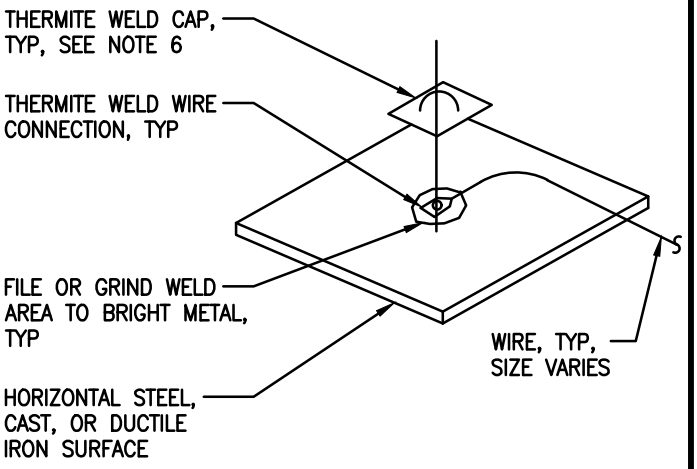
PLAN



ELEVATION

GALVANIC ANODE INSTALLATION FOR METALLIC PIPE

NTS



WIRE CONNECTION FOR HORIZONTAL SURFACES

NTS

NOTES:

1. COPPER SLEEVE REQUIRED FOR THERMITE WELDING OF #10 AWG AND SMALLER WIRE.
2. USE COPPER SLEEVE FOR THERMITE WELDING OF #4 AND #2 AWG JOINT BONDING WIRES.
3. WELDER AND CARTRIDGE SIZE VARIES ACCORDING TO SURFACE SHAPE, MATERIAL, AND HORIZONTAL OR VERTICAL SURFACE. CONSULT WELDER MANUFACTURER FOR RECOMMENDED WELDER AND CARTRIDGE.
4. FOR MULTIPLE WIRE CONNECTIONS TO PIPE SEPARATE THERMITE WELD WIRE CONNECTIONS BY ONE PIPE DIAMETER MINIMUM, 2'-0" MAXIMUM.
5. USE 15 GRAM MAXIMUM SIZE WELD CARTRIDGES FOR CONNECTIONS TO PETROLEUM AND NATURAL GAS PIPELINES OR STRUCTURES. WIRE CONNECTIONS SHALL BE AS SPECIFIED AND APPROVED BY THE OWNER.
6. COAT COMPLETED THERMITE WELD CONNECTIONS WITH ROYSTON HANDY CAP AND 747 PRIMER OR HEAT SHRINK AS SPECIFIED.

CROSS VALLEY WATER DISTRICT TRENCH BACKFILL AND RESTORATION	GALVANIC ANODE INSTALLATION		
	TBR-8	NOT TO SCALE	FEB 2022

FILE NAME: \\K-FS1\LIBRARY\CAD\DETAILS\DISTRICTS\CROSS VALLEY WATER DISTRICT\TBR-8.DWG