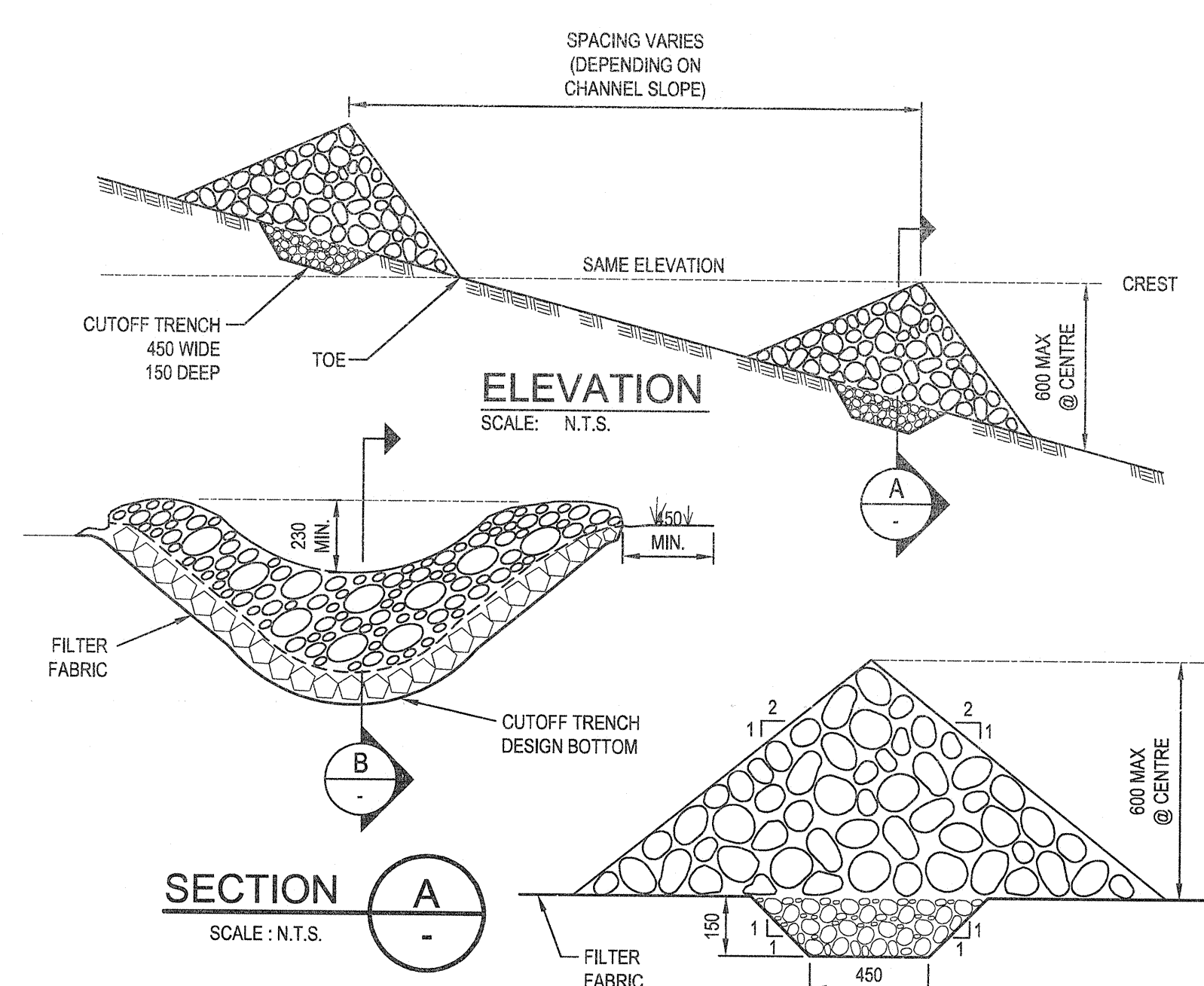
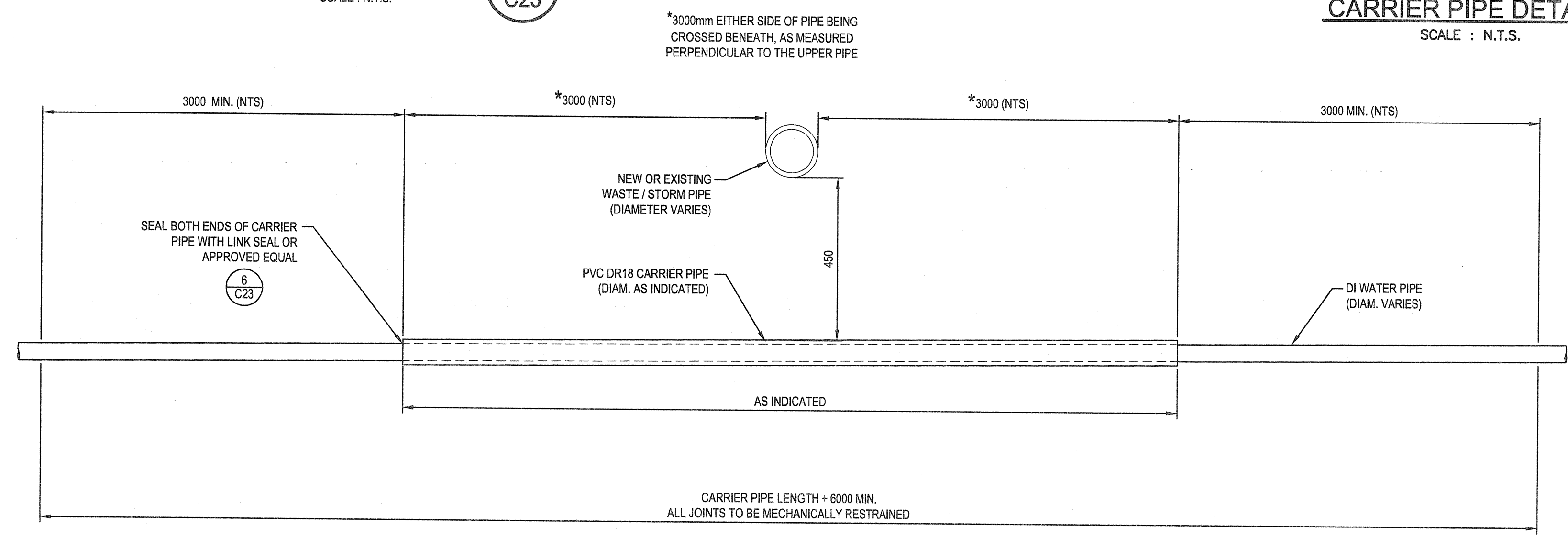


ASPHALT RECONSTRUCTION KEY JOINT
SCALE : N.T.S.

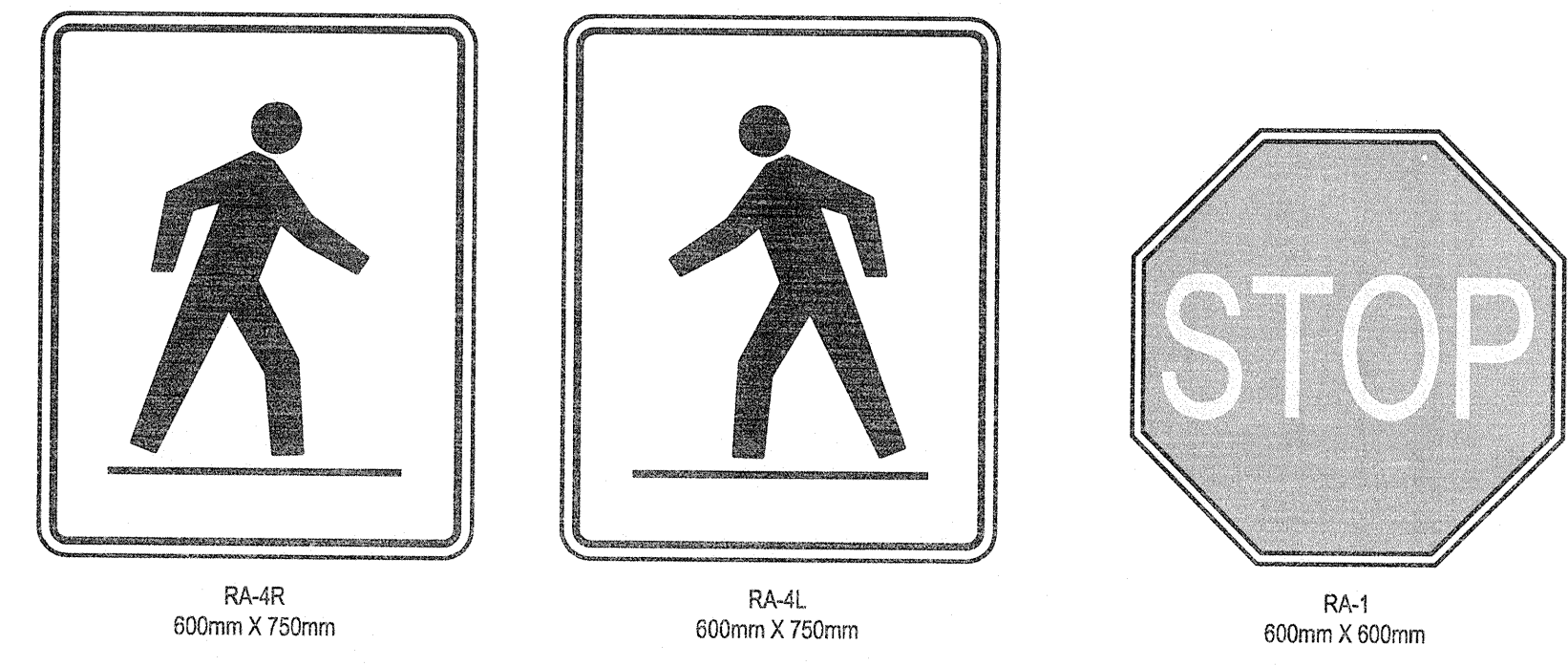


CHECK DAM (TYP.)
SCALE : N.T.S.

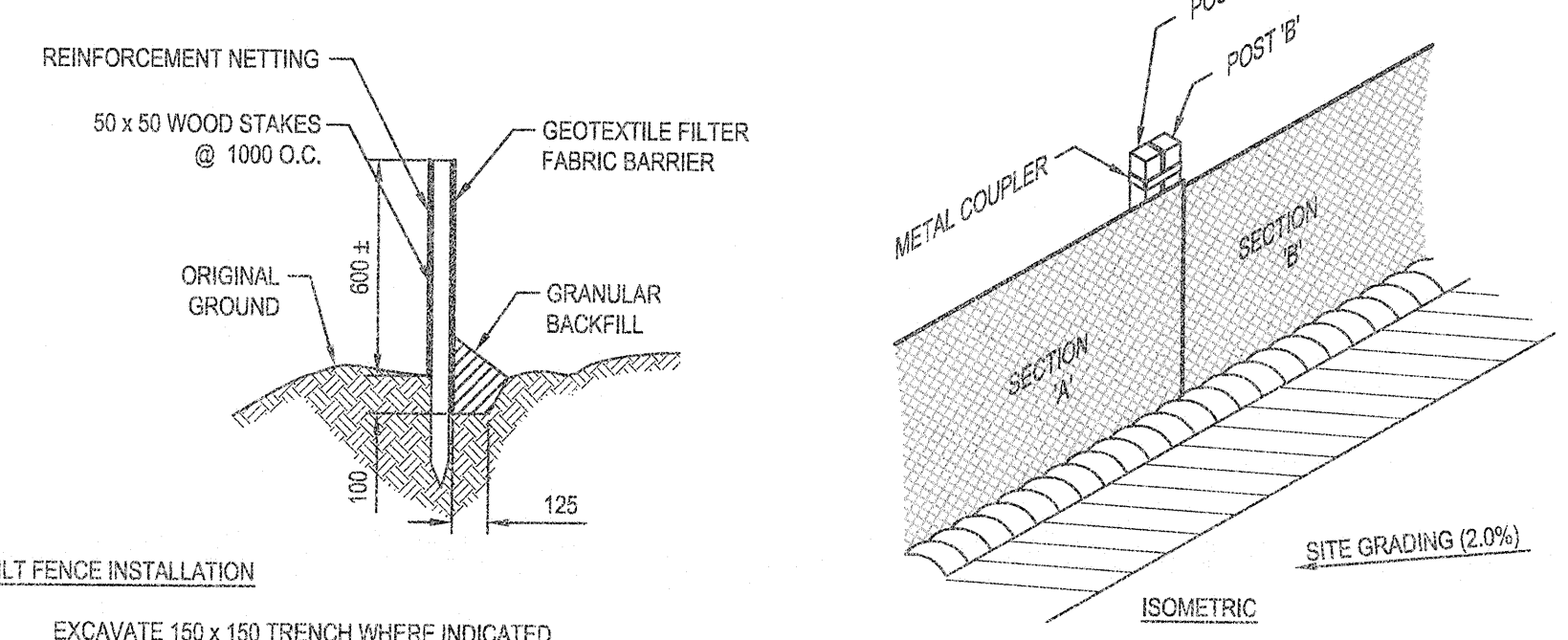
- CONSTRUCTION SPECIFICATIONS**
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
 - SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
 - EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 - PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 - ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.



WATER MAIN UNDERCROSSING CARRIER PIPE INSTALLATION DETAIL (TYP.)
SCALE : N.T.S.

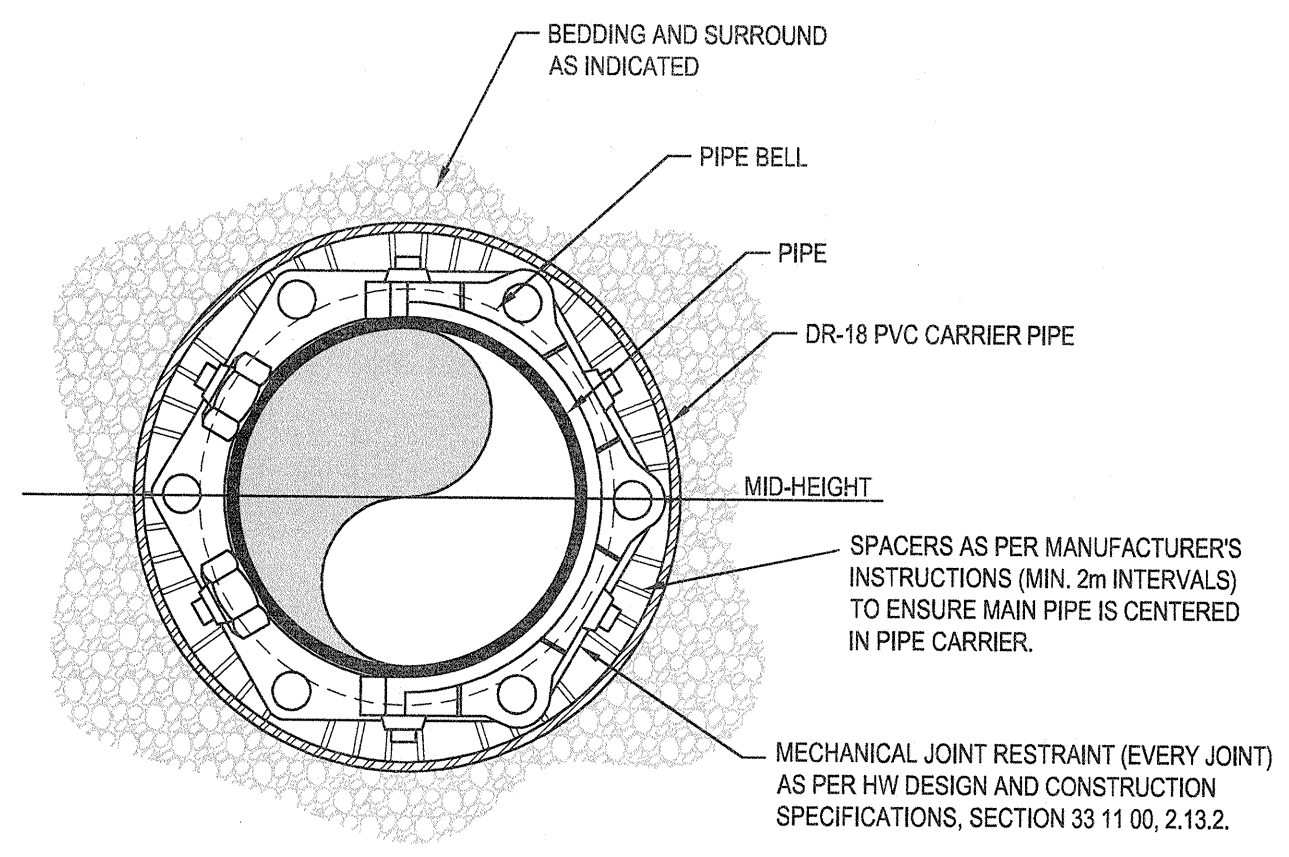


REGULATORY SIGNAGE
SCALE : N.T.S.

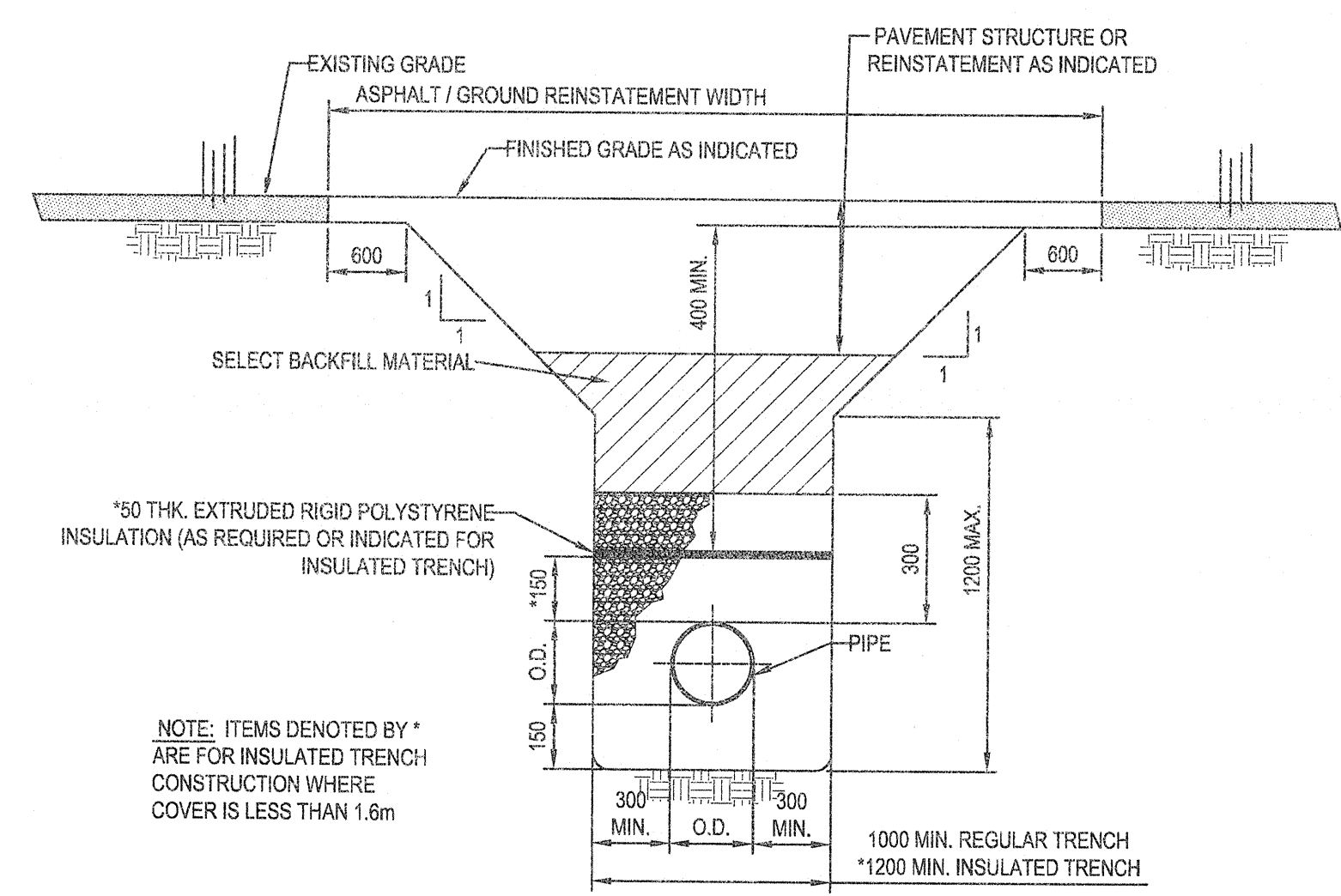


SILT FENCE INSTALLATION
SCALE : N.T.S.

- SILT FENCE INSTALLATION**
- EXCAVATE 150 x 150 TRENCH WHERE INDICATED.
 - UNROLL SILT FENCE ONE SECTION AT A TIME AND POSITION POSTS AGAINST THE DOWNSTREAM WALL OF THE TRENCH. REINFORCEMENT NETTING MUST BE ON THE DOWNSTREAM SIDE OF FLOW DIRECTION.
 - DRIVE POST INTO THE GROUND UNTIL THE REINFORCEMENT NETTING IS APPROXIMATELY 50mm FROM THE TRENCH BOTTOM.
 - LAY THE TOE-IN FLAP OF THER FABRIC IN THE BOTTOM OF THE TRENCH. BACKFILL THE TRENCH AND TAMP THE SOIL.
 - JOIN SILT FENCE SECTIONS AS SHOWN ABOVE.



CARRIER PIPE DETAIL
SCALE : N.T.S.



TRENCH DETAIL (TYP.)
SCALE : N.T.S.

HERITAGE GAS - STANDARD DRAWING
POLYETHYLENE PIPELINE TRENCH AND BACKFILL REQUIREMENTS

TABLE 1	
JURISDICTION	MINIMUM DEPTH OF COVER (mm)
HRM RIGHT-OF-WAY	850
HAA LANDS	750
NSIR RIGHT-OF-WAY (PARALLEL INSTALLATION)	1200
OTHER INCLUDING AMHERST	600

NOTES:

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- PIPELINE SHALL BE PLACED ON CENTRELINE OF TRENCH UNLESS OTHERWISE APPROVED BY THE COMPANY.
- ALL EARTHWORK, INCLUDING EXCAVATION AND BACKFILL, SHALL BE DONE IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS (IS-2-1010 TRENCH EXCAVATION IS-2-1050C BACKFILL AND SHADING IS-2-1050C SAND PADDING AND SHADING).
- REINSTATEMENT SHALL BE DONE IN ACCORDANCE WITH NOVA SCOTIA ROAD BULLETIN'S STANDARD SPECIFICATIONS FOR MUNICIPAL SERVICES AND HERITAGE GAS SPECIFICATIONS.
- IF DEPTH OF COVER NOTED CANNOT BE OBTAINED, CONTACT THE COMPANY INSPECTOR.
- TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE NOVA SCOTIA DEPARTMENT OF LABOUR REGULATIONS.
- CONTRACTOR TO MINIMIZE WIDTH OF TRENCH.

STO NO. SD-5-1010
SCALE N.T.S.
REV NO. 3

Heritage Gas

GAS PIPELINE TRENCH DETAIL
C23

MINIMUM CONTACT AREAS FOR HORIZONTAL CONCRETE THRUST BLOCKS

PIPE DIAMETER	AREA (m ²) FOR SOIL SUPPORTING CAPACITY OF 100 kPa					
mm	CAP/PLUG	TEE	90° BEND	45° BEND	22.5° BEND	11.25° BEND
400	2.01	2.01	2.85	1.54	0.79	0.39

MINIMUM DISTANCE FROM FITTING TO UNDISTURBED GROUND

PIPE DIAMETER	DISTANCE
mm	mm
400	900

VERTICAL THRUST BLOCKS COMPENSATED FOR BY MASS OF CONCRETE

PIPE DIAMETER	VOLUME (m ³)		
mm	45° BEND	22.5° BEND	11.25° BEND
400	6.05	3.27	1.67

THRUST BLOCK REQUIREMENTS
C23

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

KEYPLAN

SITE LOCATION

SNC-LAVALIN
SNC-LAVALIN Inc.
Halifax, Nova Scotia, Canada
Member of the SNC-LAVALIN Group

PROFESSIONAL ENGINEER
DATE: 14-12-17
SIGNATURE: [Signature]
REG. NO.: 9719
PROVINCE OF NOVA SCOTIA

ISSUED FOR TENDER AUG 29 2017

project BEDFORD INSTITUTE OF OCEANOGRAPHY DARTMOUTH, NS

drawing CONSTRUCTION DETAILS

designed: JG
date: [blank]
drawn: DPB
date: [blank]
approved: ME
date: [blank]
Tender: [Signature]
PWGSC Project Manager: [Signature]
project number: R.073592.001
drawing no.: C23

E-DRM000-E: # 547537