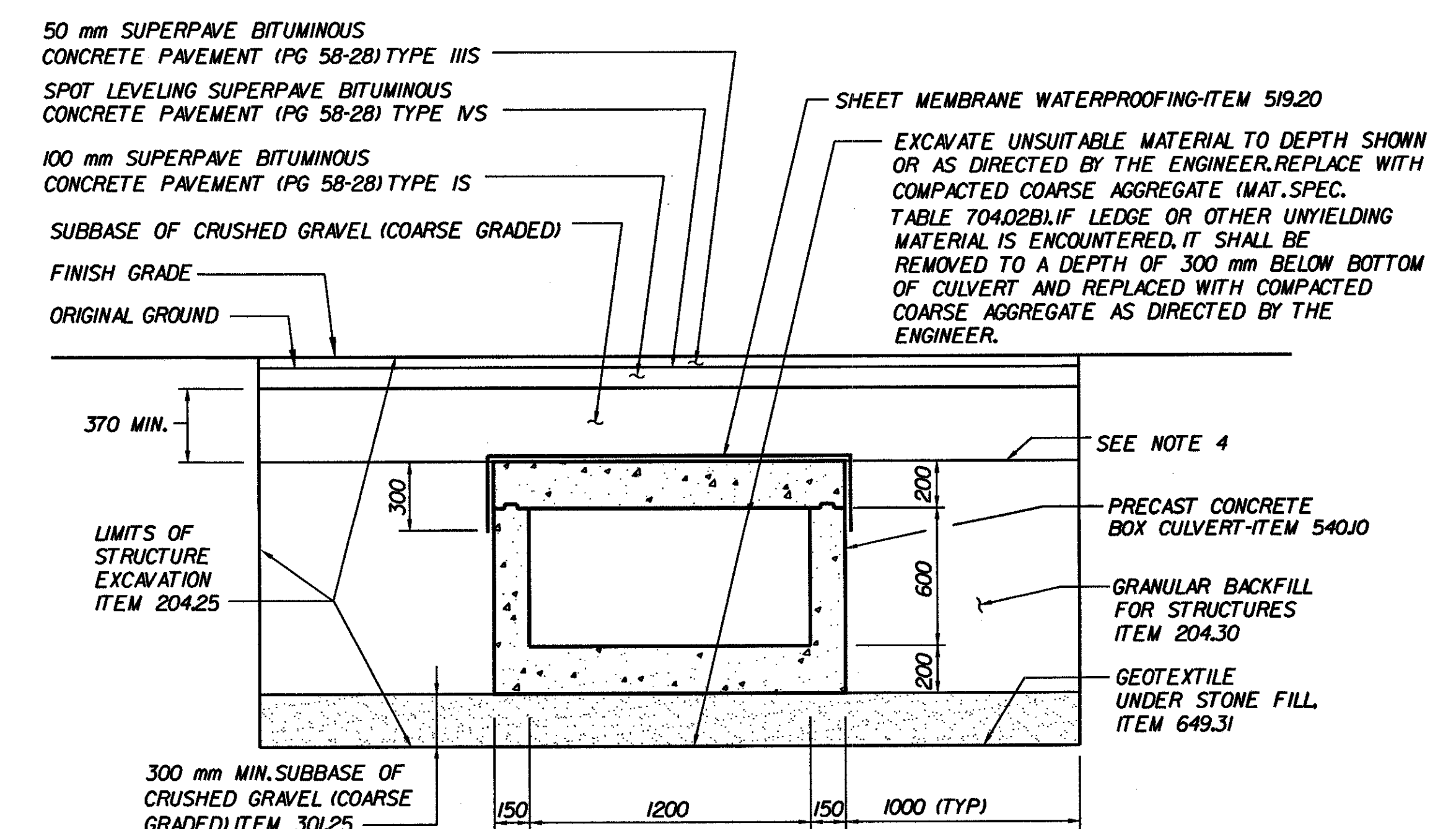




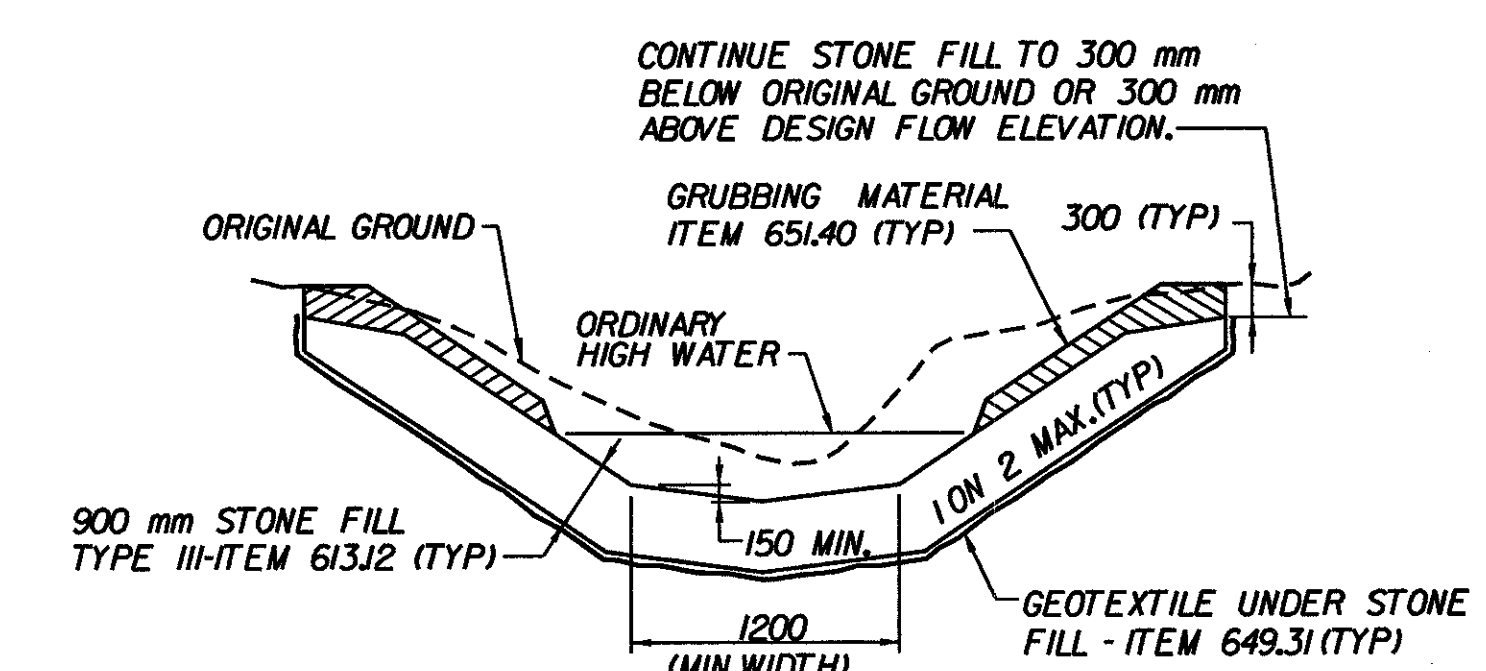
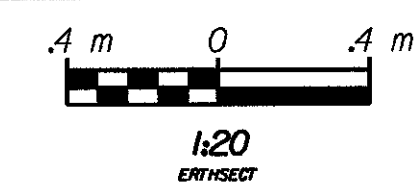
NOTE: UNLESS NOTED OTHERWISE, ALL STATIONS ARE IN KILOMETERS, ALL ELEVATIONS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS.

NOTES:

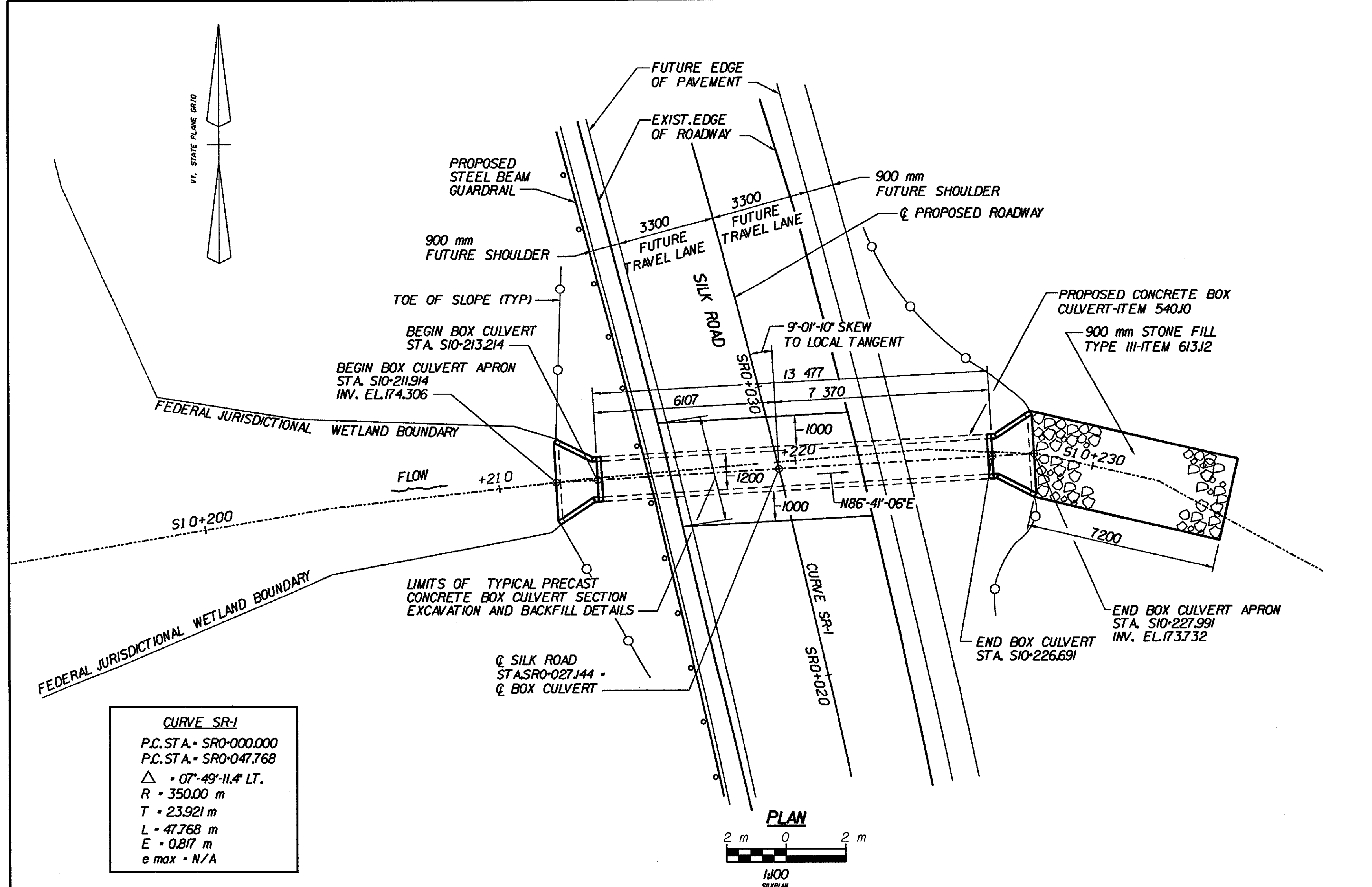
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1995 (METRIC) & THE LATEST A.A.S.H.T.O. STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (16TH EDITION). DESIGN IS FOR MS-22.5 LIVE LOAD.
- WHEN NORMAL CONSTRUCTION OR REGULAR ROADWAY TRAFFIC IS MAINTAINED OVER THE BOX CULVERT, THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 500 mm OF COMPACTED MATERIAL.
- ALL SILK ROAD PAVEMENTS SHALL BE CONSTRUCTED USING SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-28) UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER.
- COST FOR ALL SUBBASE AND PAVEMENT ITEMS ABOVE THE TOP SLAB OF THE CULVERT SHALL BE INCLUDED IN THE HIGHWAY ESTIMATE.
- THE FUTURE STANDARD PAVEMENT AND FUTURE SHOULDERS WILL NOT BE CONSTRUCTED AS PART OF THIS PROJECT. SEE DRAWING NUMBER P-1 FOR THE WIDTH OF THE PROPOSED OVERLAY ON SILK ROAD.



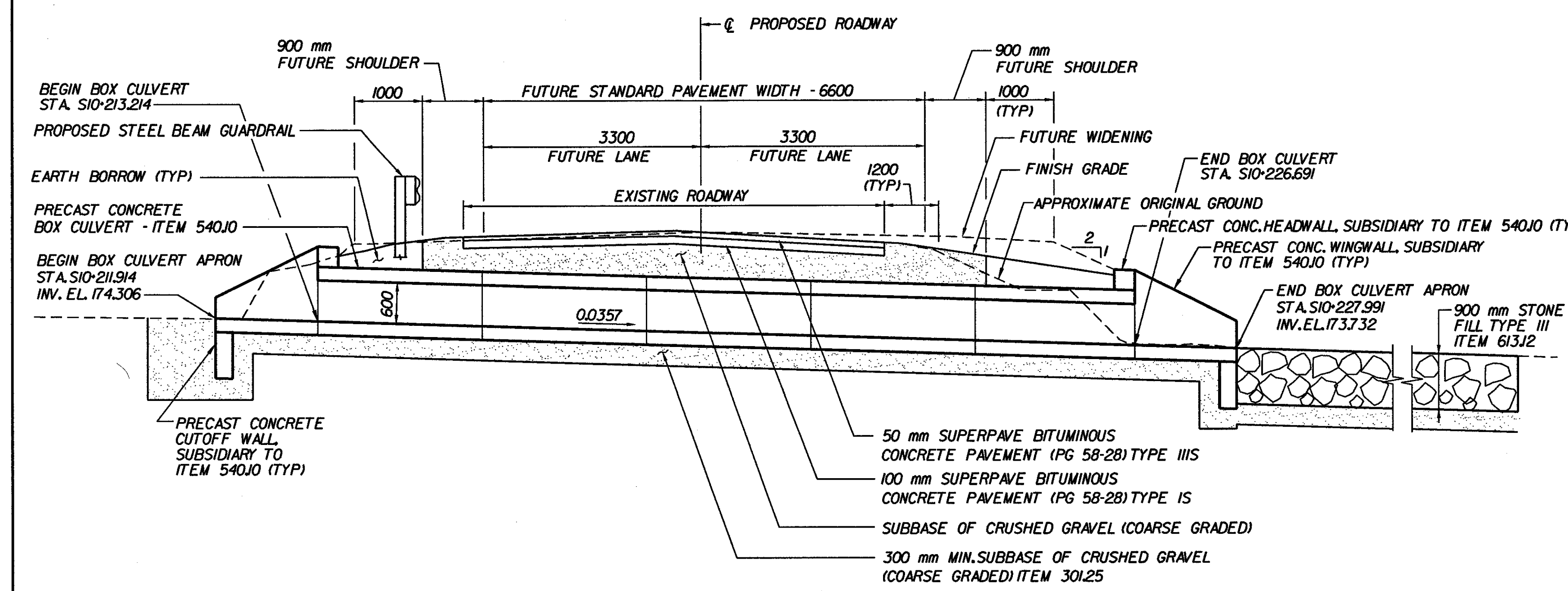
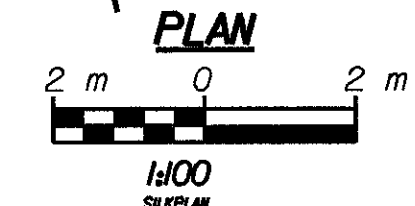
TYPICAL PRECAST CONCRETE BOX CULVERT SECTION EXCAVATION AND BACKFILL DETAILS



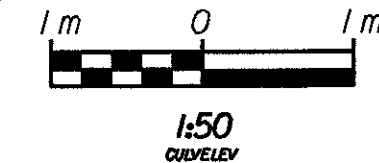
TYPICAL CHANNEL SECTION N.T.S.



CURVE SR-1
 P.C. STA. + SR0+000.000
 P.C. STA. + SR0+047.768
 $\Delta = 07^{\circ}49'11.4''$ LT.
 R = 350.00 m
 T = 23.921 m
 L = 47.768 m
 E = 0.817 m
 e max = N/A



LONGITUDINAL BOX CULVERT SECTION



ESTIMATED QUANTITIES

NO.	ITEM	UNIT	TOTAL	FINAL
20325	CHANNEL EXCAVATION OF EARTH	m ³	40	
20425	STRUCTURE EXCAVATION	m ³	100	
20430	GRANULAR BACKFILL FOR STRUCTURES	m ³	40	
30125	SUBBASE OF CRUSHED GRAVEL (COARSE GRADED)	m ³	20	
51920	SHEET MEMBRANE WATERPROOFING	m ²	34	
540J0	PRECAST CONCRETE BOX CULVERT	LS	1	
613J2	STONE FILL TYPE III	m ³	40	
64931	GEOTEXTILE UNDER STONE FILL	m ²	90	
65140	GRUBBING MATERIAL	m ²	30	

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	BENNINGTON	Bridge No.	BR1000
Highway No.	SILK ROAD	Log Sta.	
		Surv. Sta.	SR0+027
SILK ROAD CULVERT			
PRELIMINARY INFORMATION			
Designed By	C. TUTUNJIAN	Drawn By	B. WEATHERBY
Checked By	M. COGUEN	Date	6/00
		Bridge Design Supervisor	M.W. OLSTAD
		Date	9/00
PROJECT	BENNINGTON-HOOSICK	PROJECT NO.	D.P.J. 0146 (I) C/4
I.G.C. Info.			
Bridge Sheet No.	BR1000	Sheet	250 of 385

HYDRAULIC DATA

DRAINAGE AREA	342 ha	DESIGN FLOW	Q25
DESIGN OUTLET VELOCITY @ Q25	0.25 - 3.9 m/sec.	Q10 FLOW	1.07 m ³ /SEC.
DESIGN TAILWATER DEPTH @ Q25	0.34 m	Q25 FLOW	1.32 m ³ /SEC.
ORDINARY HIGH WATER DEPTH @ Q 25	0.380 m	Q50 FLOW	1.58 m ³ /SEC.
		Q100 FLOW	1.81 m ³ /SEC.
		HEADWATER ELEVATION @ Q10	174.99
		HEADWATER ELEVATION @ Q25	175.12
		HEADWATER ELEVATION @ Q50	175.28
		HEADWATER ELEVATION @ Q100	175.52
COMMENTS: TOWN OF BENNINGTON HIGHWAY CULVERT			

FILE NAME = \\US325\USUR\BR1000\cshdnt.dgn
 DATE/TIME = 15 SEP 2000
 USER = M59