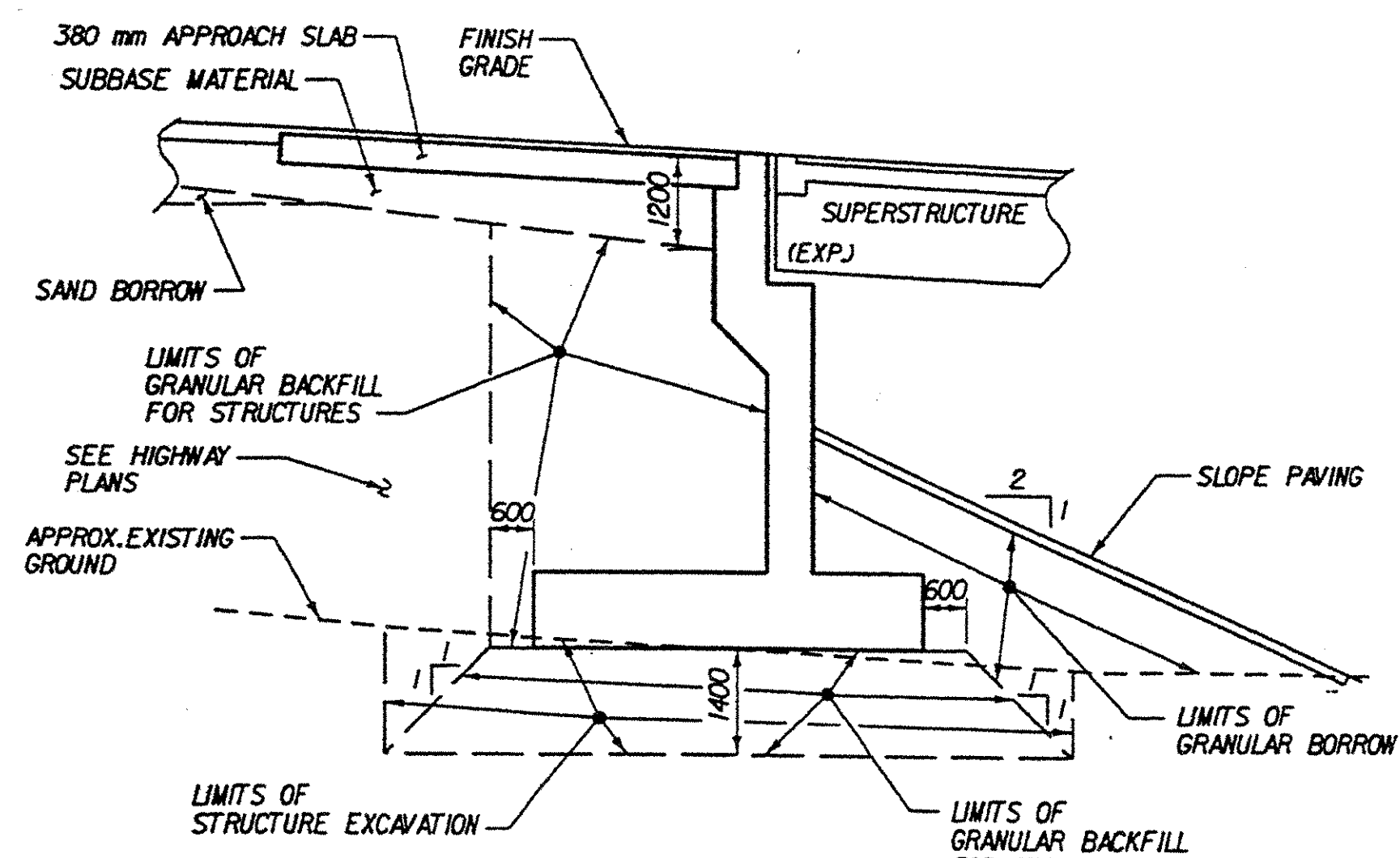
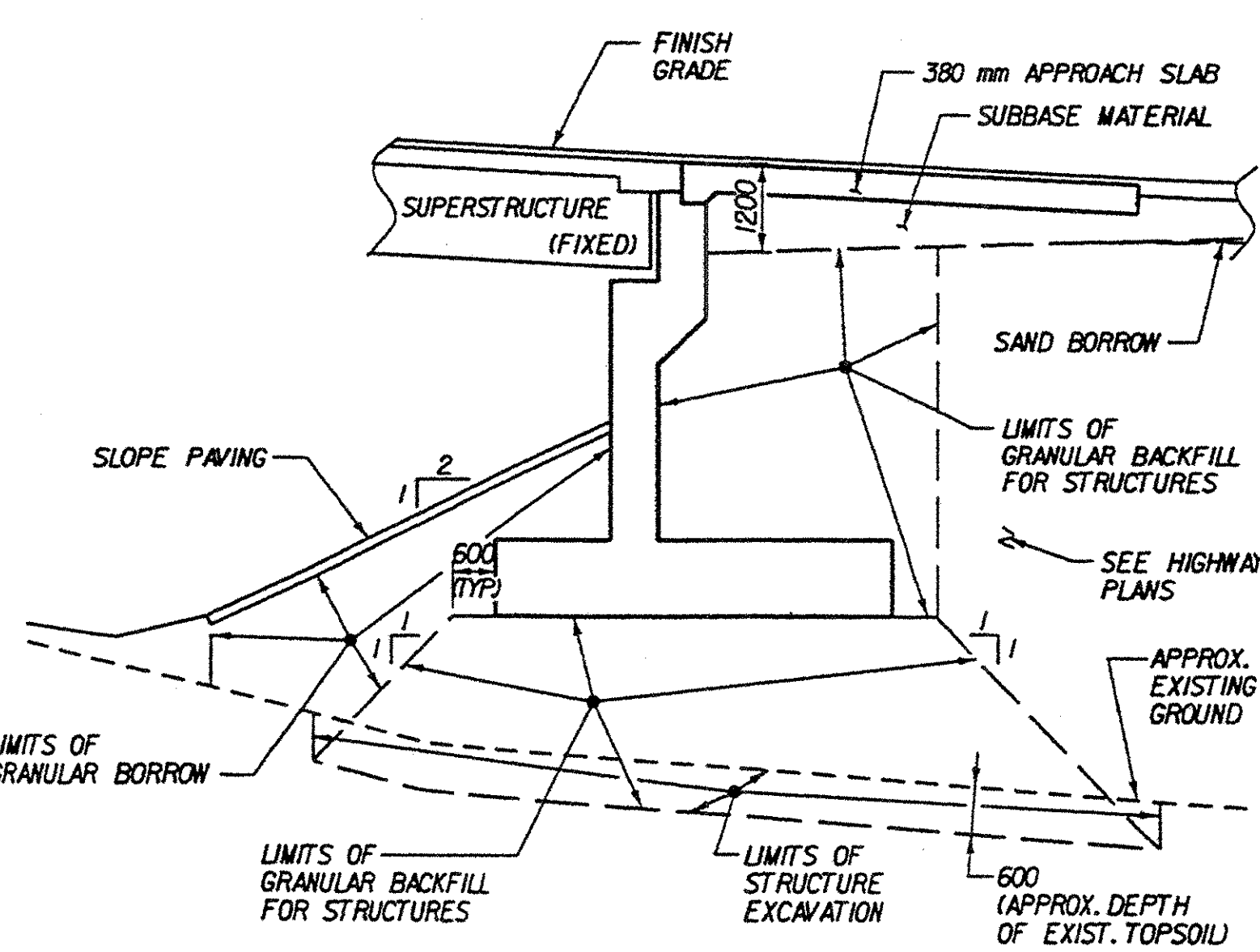


BRIDGE TYPICAL SECTION
SCALE 1:40

NOTE: ALL DIMENSIONS ARE RADIAL AND CONCENTRIC WITH ϕ OF CONSTRUCTION UNLESS NOTED OTHERWISE.



TYPICAL ABUTMENT 1 SECTION
NOT TO SCALE



TYPICAL ABUTMENT 2 SECTION
NOT TO SCALE

INDEX OF SHEETS

- BR400 PRELIMINARY INFORMATION SHEET
- BR401 GENERAL PLAN AND ELEVATION
- BR402-403 BORING INFORMATION SHEETS
- BR404-409 BORING LOGS

NOTE:

ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

FINAL HYDRAULICS REPORT **Metric**

HYDROLOGIC DATA

DRAINAGE AREA: _____
 CHARACTER OF TERRAIN: _____
 CHARACTER & TYPE OF STREAM: _____
 NATURE OF STREAMBED: _____
 02.33= _____ cms 050= _____ cms
 010= _____ cms 0100= _____ cms
 025= _____ cms 0500= _____ cms

DATE OF FLOOD OF RECORD: _____
 WATER SURFACE ELEV. @ 050: _____ ESTIMATED DISCHARGE: _____
 NATURAL STREAM VELOCITY @ 050: _____ mps
 ICE CONDITIONS: _____ DEBRIS: _____
 DOES THE STREAM REACH MAXIMUM HIGHWATER ELEVATION RAPIDLY? _____
 IS ORDINARY RISE RAPID? _____
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? _____
 IF YES, DESCRIBE: _____
 WATERSHED STORAGE: _____ HEADWATERS: _____ UNIFORM THROUGHOUT WATERSHED: _____ IMMEDIATELY ABOVE SITE: _____

PROPOSED STRUCTURE

STRUCTURE TYPE: Single span plate girder bridge

CLEAR SPAN (NORMAL TO STREAM): N/A
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A
 WATERWAY OF FULL OPENING: N/A

WATER SURFACE ELEV. @ 02.33= _____ VELOCITY: _____ mps
 010= _____ mps
 025= _____ mps
 050= _____ mps
 0100= _____ mps

IS THE ROADWAY OVERTOPPED BELOW THE 0100? N/A FREQUENCY: N/A
 RELIEF ELEVATION: N/A DISCHARGE OVER ROAD @ 0100: N/A

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: _____
 VERTICAL CLEARANCE @ 0 100 = _____ m

SCOUR: Channel = N/A
 REQUIRED CHANNEL PROTECTION: N/A

EXISTING STRUCTURE

STRUCTURE TYPE: N/A YEAR BUILT: N/A
 CLEAR SPAN (NORMAL TO STREAM): N/A
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A
 WATERWAY OF FULL OPENING: N/A
 DISPOSITION OF STRUCTURE: N/A

TYPE OF MATERIAL UNDER SUBSTRUCTURE: N/A

WATER SURFACE ELEV. @ 02.33= _____ VELOCITY: _____ mps
 010= _____ mps
 025= _____ mps
 050= _____ mps
 0100= _____ mps

LONG TERM STREAM BED CHANGES: N/A

IS THE ROADWAY OVERTOPPED BELOW THE 0100? N/A FREQUENCY: N/A
 RELIEF ELEVATION: N/A DISCHARGE OVER ROAD @ 0100: N/A

UPSTREAM STRUCTURE: TOWN: N/A DISTANCE: _____
 HIGHWAY NO.: _____ STRUCTURE NO.: _____
 STRUCTURE TYPE: _____
 CLEAR SPAN: _____ CLEAR HEIGHT: _____
 YEAR BUILT: _____ FULL WATERWAY: _____

DOWNSTREAM STRUCTURE: TOWN: N/A DISTANCE: _____
 HIGHWAY NO.: _____ STRUCTURE NO.: _____
 STRUCTURE TYPE: _____
 CLEAR SPAN: _____ CLEAR HEIGHT: _____
 YEAR BUILT: _____ FULL WATERWAY: _____

(COMPLETE INFORMATION WILL BE PROVIDED ON FINAL PLANS)

PERMIT INFORMATION

AVERAGE DAILY FLOW: N/A
 ORDINARY LOW WATER: _____ cms ELEV.: _____
 ORDINARY HIGH WATER: _____ cms ELEV.: _____

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: N/A
 CLEAR SPAN (NORMAL TO STREAM): N/A
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A
 WATERWAY OF FULL OPENING: N/A

DESIGN CRITERIA:

- DESIGN LIVE LOAD AASHTO MS-22.5
- DESIGN SPAN 33 m
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 290 kPa
- ALLOWABLE LOAD FOR PILING N/A TYPE N/A ESTIMATED LENGTH ON LEDGE N/A
- STRUCTURAL STEEL AASHTO GRADE M270M GR345W
- REINFORCING STEEL GRADE 420
- CONCRETE, HIGH PERFORMANCE CLASS A (OC/OA) $f_c = 30$ MPA
 CONCRETE, HIGH PERFORMANCE CLASS B $f_c = 25$ MPA

TRAFFIC MAINTENANCE:

- IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE N/A OR ON TEMPORARY BRIDGE N/A
- TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY N/A TRAFFIC CONTROL SIGNALS REQUIRED N/A

MINIMUM CLEAR SPAN (NORMAL TO STREAM): N/A VERTICAL CLEARANCE ABOVE STREAMBED: N/A
 WATERWAY AT FULL OPENING: N/A
 ARE SIDEWALKS REQUIRED? N/A IF SO, ON WHAT SIDE? N/A

LOADING LEVELS (LOAD FACTOR)	LOAD RATING (TONS)						
	H	HS	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEW
INVENTORY A = 2.17							
POSTED A = 1.55							
OPERATING A = 1.30							

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of **BENNINGTON** Bridge No. _____
 Highway No. _____ Log Sta. _____
 Surv. Sta. _____

VT ROUTE 279 OVER CHAPEL ROAD

PRELIMINARY INFORMATION SHEET

Designed By **S. BURBANK** Drawn By **A. THIBAUT**
 Checked By _____ Date _____ Bridge Design Supervisor
M. CHENETTE 11/04 **G. BOGUE** Date _____

PROJECT **BENNINGTON** PROJECT NO. **NH F019-1K5**
 DH CAD Drawing Name: ...PlotFiles\CH\CH-PR019-1K5.dwg Date: 11/17/2004
 Bridge Sheet No. **BR400** Sheet **24** of **112**

