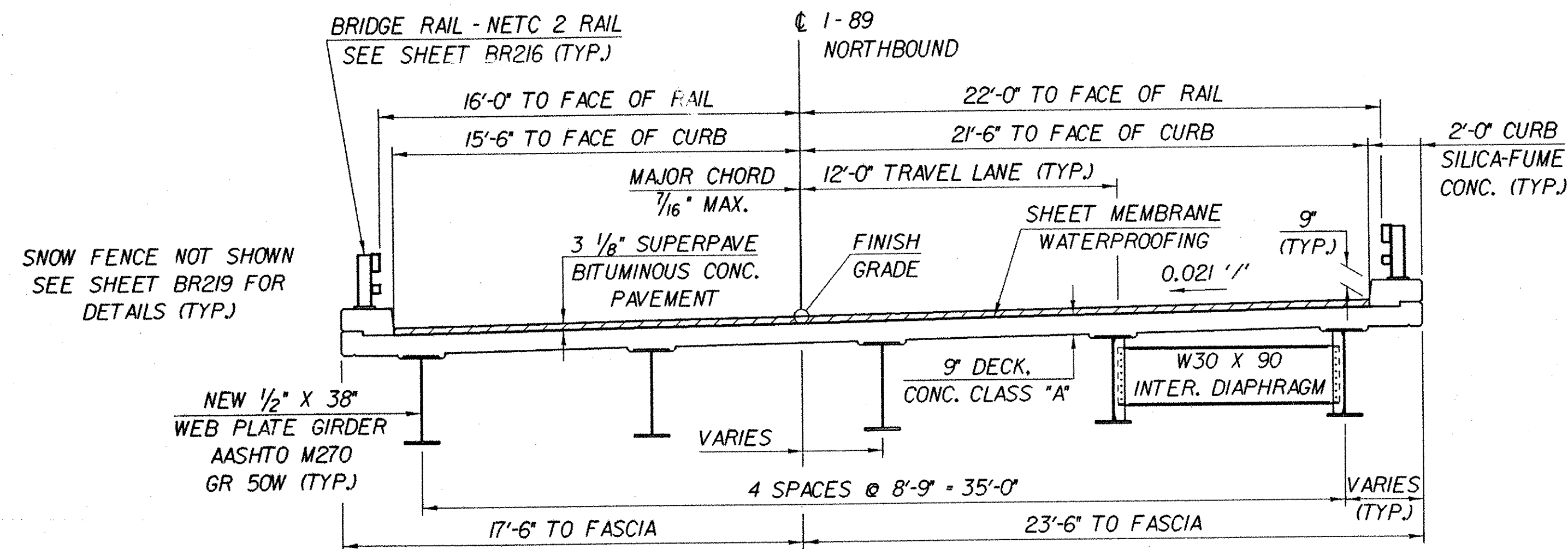
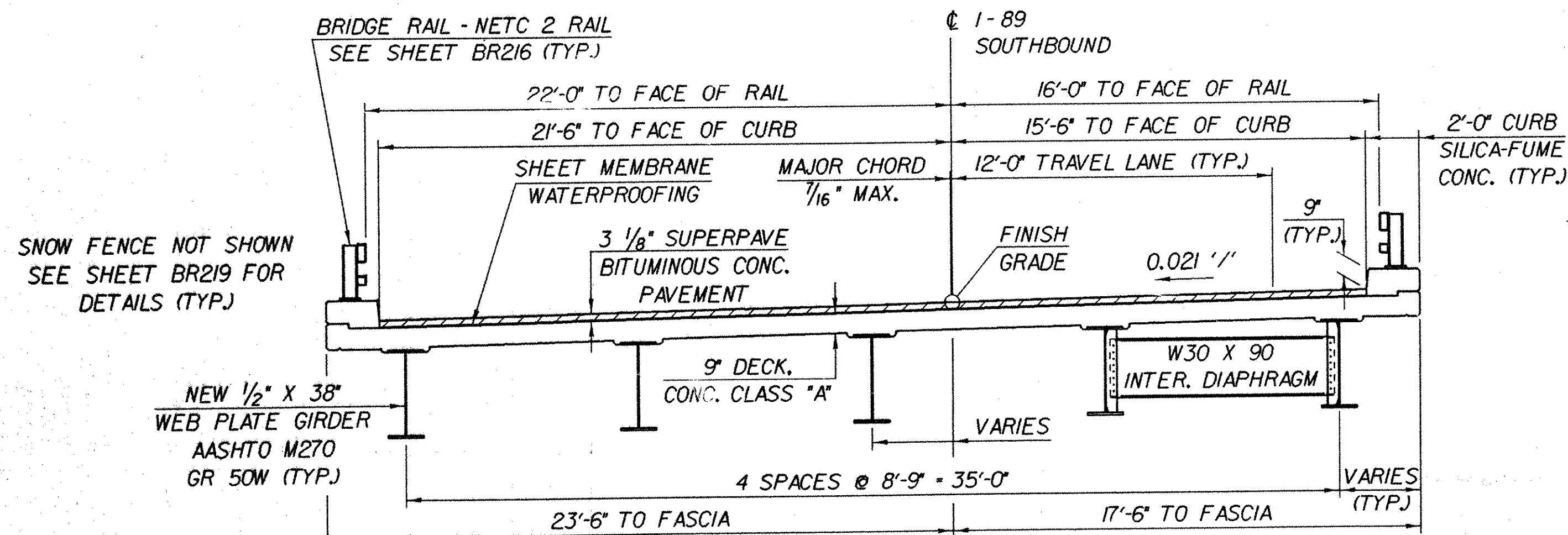




BRIDGE 87N TYPICAL SECTION

SCALE 1/4" = 1'-0"
1 0 2 4 6



BRIDGE 87S TYPICAL SECTION

SCALE 1/4" = 1'-0"
1 0 2 4 6

87 N & S INDEX OF SHEETS

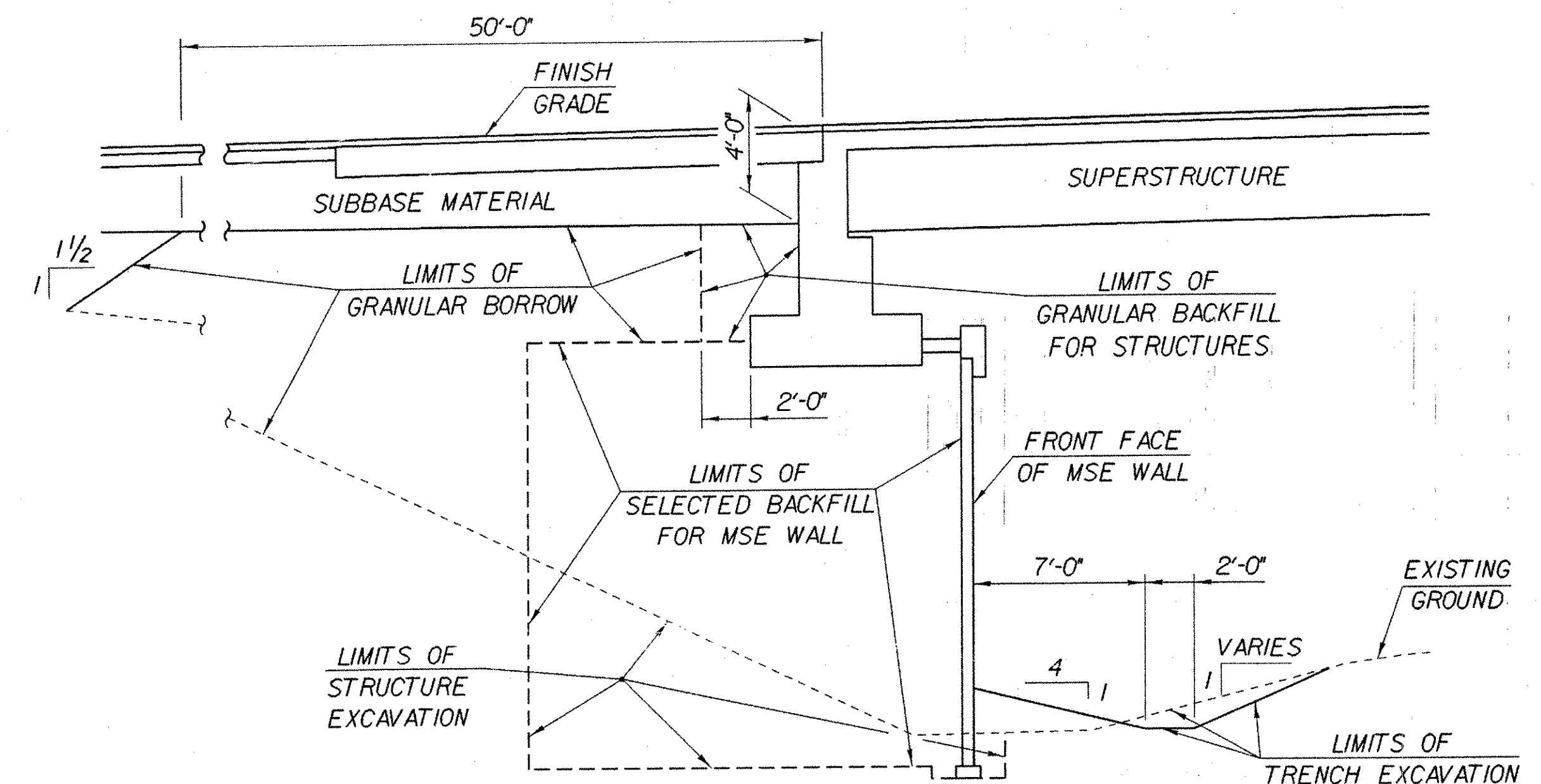
BR200	87 N & S PRELIMINARY INFORMATION SHEET
BR201	87 N & S BRIDGE QUANTITY SHEET
BR202	87 N & S PLAN AND ELEVATION SHEET
BR202A	87 N & S BORING INFORMATION SHEET (1)
BR202B	87 N & S BORING INFORMATION SHEET (2)
BR203	87 N & S PROJECT NOTES
BR204	87 S BRIDGE DECK DETAILS
BR205	87 S DECK REINFORCING PLAN
BR206	87 S FRAMING PLAN DETAILS
BR207	87 N BRIDGE DECK DETAILS
BR208	87 N DECK REINFORCING PLAN
BR209	87 N FRAMING PLAN DETAILS
BR210	STRUCTURAL STEEL CONNECTION DETAILS
BR211	FIXED BEARING DETAILS ABUT. NOS. 1 & 3
BR212	EXPANSION BEARING DETAILS ABUT. NOS. 2 & 4
BR213	87 S APPROACH SLAB DETAILS
BR214	87 N APPROACH SLAB DETAILS
BR215	CURB AND RAIL DETAILS
BR216-219	NETC RAIL DETAILS

INDEX OF SHEETS (CONT.)

BR220	ABUTMENT NO. 1 DETAILS
BR221	ABUTMENT NO. 2 DETAILS
BR222	ABUT. NOS. 1 & 2 FOOTING REINFORCING
BR223	WINGWALL NOS. 1 - 4 ELEVATIONS
BR224	ABUTMENT NO. 3 DETAILS
BR225	ABUTMENT NO. 4 DETAILS
BR226	ABUT. NOS. 3 & 4 FOOTING REINFORCING
BR227	WINGWALL NOS. 5 - 8 ELEVATIONS
BR228-229	87 N & S REINFORCING STEEL SCHEDULES
BR230	MSE WALL NOTES
BR231	MSE WALL NO. 1 PLAN AND ELEVATION
BR232	MSE WALL NO. 2 PLAN AND ELEVATION
BR233-234	MSE WALL DETAILS
BR235	MSE WALL REINFORCING STEEL SCHEDULE
BR236-238	VT 104 CROSS SECTIONS
BR239-247	87 N & S REFERENCE SHEETS 1 - 9

NOTES

- SCOPE OF WORK:** FOR BOTH BRIDGES 87N AND 87S, PERFORM A FULL SUPERSTRUCTURE AND SUBSTRUCTURE REPLACEMENT. REPLACE EXISTING 3-SPAN STRUCTURE WITH A SIMPLE SPAN STEEL GIRDER BRIDGE SUPPORTED ON MECHANICALLY STABILIZED EARTH WALL SUBSTRUCTURES. PERFORM ADDITIONAL APPROACH AND SITE WORK AS SHOWN IN THE PLANS AND AS DIRECTED BY THE RESIDENT ENGINEER.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 1990, AND ITS LATEST REVISIONS AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 1996, AND ITS LATEST REVISIONS.



TYPICAL ABUTMENT SECTION
(NOT TO SCALE)

* SEE TRAFFIC CONTROL SHEETS

DESIGN CRITERIA:	
1. DESIGN LIVE LOAD AASHTO	HS25-44
2. DESIGN SPAN	80'
3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL	4 KSF
4. ALLOWABLE LOAD FOR PILING	N/A
5. STRUCTURAL STEEL AASHTO M270 GRADE	50 W
6. REINFORCING STEEL GRADE	60
7. CONCRETE CLASS A	f _c : 4000 PSI
CONCRETE CLASS B	f _c : 3500 PSI
SILICA-FUME CONCRETE	f _c : 5000 PSI
8. ASSUMED UNIT WEIGHT OF SOIL	140 PCF

* TRAFFIC MAINTENANCE:	
1. IS TRAFFIC TO BE MAINTAINED?	IF YES, ON EXISTING STRUCTURE OR ON TEMPORARY BRIDGE
2. TEMPORARY BRIDGE REQUIREMENTS:	ONE OR TWO WAY TRAFFIC CONTROL SIGNALS REQUIRED
ARE SIDEWALKS REQUIRED?	IF SO, ON WHAT SIDE?

LOAD FACTOR LOAD RATING (TONS)							
LOADING LEVELS (LOAD FACTOR)	H	HS	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
INVENTORY A=2.17, B=1.00	37	50					
POSTED A=1.55, B=1.40	52	71	84		65	66	77
OPERATING A=1.30, B=1.67		85	101	120	77	79	

$$\text{STRENGTH RF} = \frac{0.9 M_N - 1.3 M_{DL}}{A \times M_{LL+1}}$$

$$\text{SERVICEABILITY RF} = B \left[\frac{0.95 F_y S_{LL+1} - M_{DL}}{1.67 M_{LL+1}} - M_{SD} S_{SD} \right]$$

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town of **FAIRFAX-FAIRFIELD-ST. ALBANS** Bridge No. **87 N&S**
Highway No. **1-89** Log Sta.
Surv. Sta.

1-89 OVER VT 104

87 N & S PRELIMINARY INFORMATION SHEET

Designed By **M. LOZIER** Drawn By **G. ROY**
Checked By **M. LOZIER** Date **11/99** Bridge Design Supervisor **R.R. WHITCOMB** Date **11/99**

PROJECT **FAIRFAX-FAIRFIELD-ST. ALBANS** PROJECT NO. **1 M 089 - 3 (27)**
I.C.C. Info. **96a056Structures\sa056pl2.dgn** sa056pl2j

Bridge Sheet No. **BR200** Sheet **76** of **370**

PLOTTED 21-SEP-2000

**IMPORTANT NOTE: BRIDGE FINISHED GRADES
ARE CENTERLINE GRADES.**