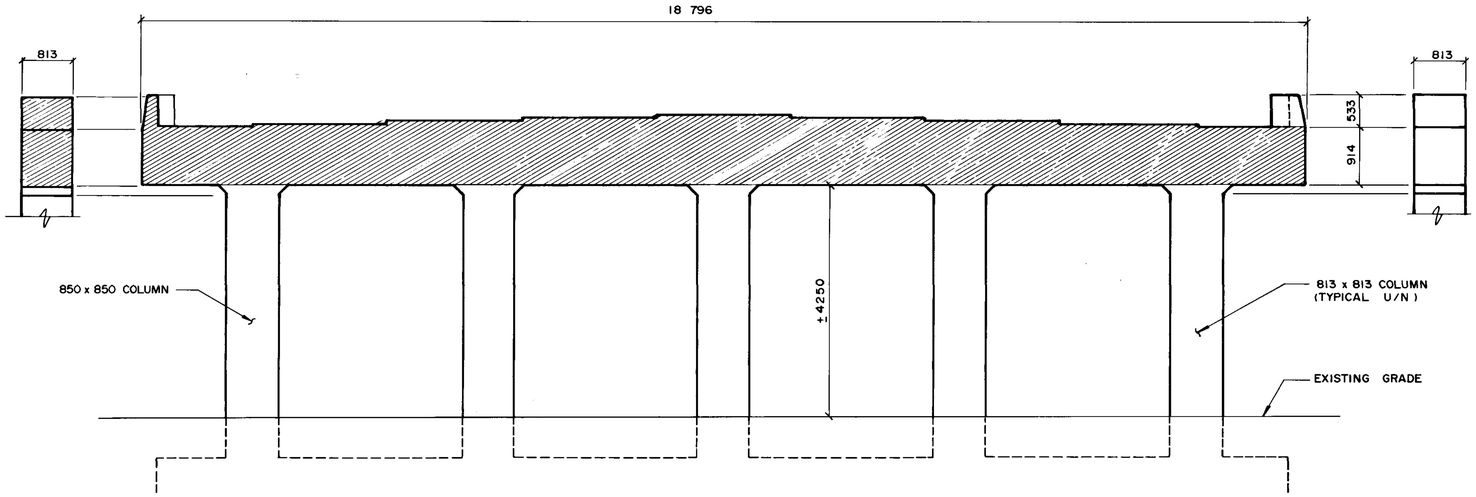
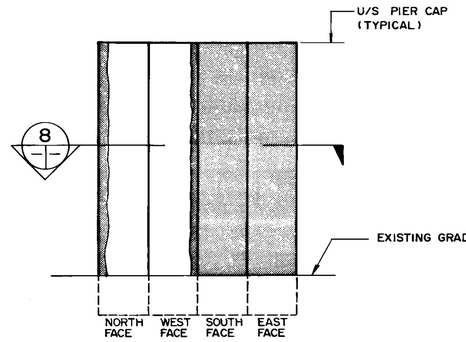
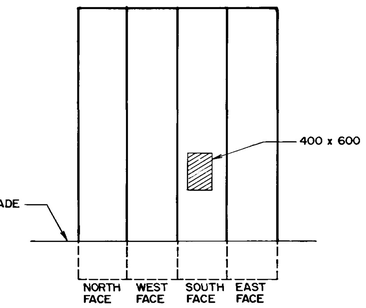


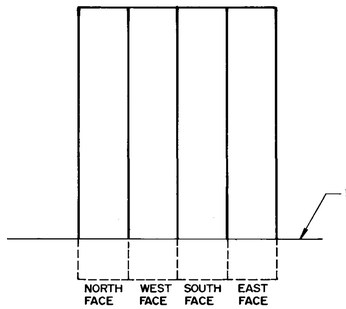
1 NORTH ELEVATION
1:50



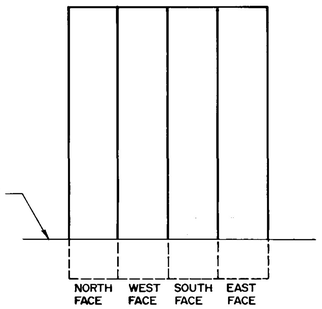
3 EAST COLUMN
1:50



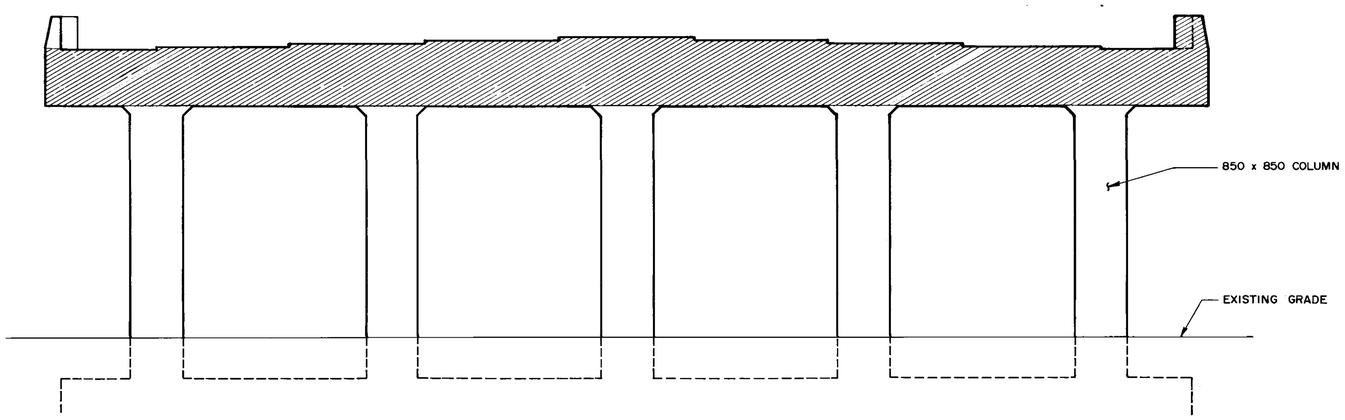
4 EAST-CENTER COLUMN
1:50



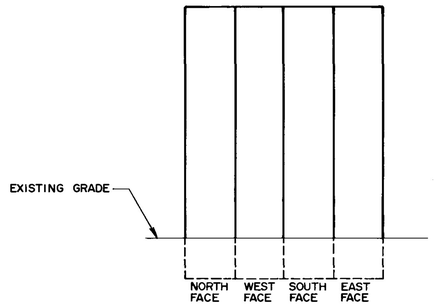
5 CENTER COLUMN
1:50



6 WEST-CENTER COLUMN
1:50



2 SOUTH ELEVATION
1:50



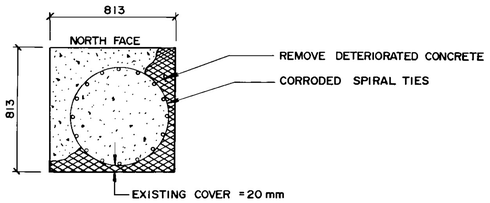
7 WEST COLUMN
1:50

LEGEND:

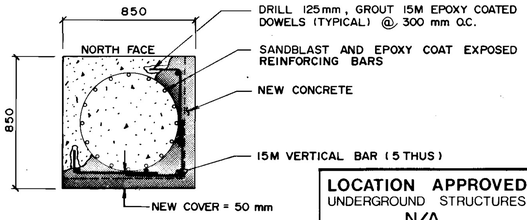
TYPE 1 REPAIR
- APPLY CEMENT WASH TO EXISTING SURFACE.

TYPE 2 REPAIR
- CHIP 25mm TO SOUND CONCRETE.
- SANBLAST & EPOXY COAT EXPOSED REINF.
- APPLY BONDING AGENT.
- BUILD UP SURFACE TO PREVIOUS LEVEL BY TROWELLING ON CEMENT MORTAR.

TYPE 4 REPAIR
- CHIP OFF 75mm MINIMUM TO SOUND CONCRETE.
- SANDBLAST & EPOXY COAT EXPOSED REINF.
- DRILL IN DOWELS AND TIE REINF. AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- APPLY BONDING AGENT.
- INSTALL FORMWORK
- CAST CONCRETE WITH 9mm AGGREGATE



8 SECTION
SHOWING PIER COLUMN BEFORE DEMOLITION
1:20



8 SECTION
SHOWING PIER COLUMN REPAIR
1:20

AS-BUILT
DATE 91.02.26 BY
CHECKED BY

LOCATION APPROVED
UNDERGROUND STRUCTURES
N/A
SUPV. U/G STRUCTURES COMMITTEE — DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M.
ELEV.

NO	REVISIONS	DATE	BY

WARDROP ENGINEERING INC.

DESIGNED BY F.C.	CHECKED BY
DRAWN BY G.I.	APPROVED BY
HOR. SCALE / VERTICAL AS NOTED	AUTHORIZED BY — DATE — W. NAUMKO/STREETS & BRIDGE ENGINEER
DATE JANUARY 12, 1991	ACCEPTED BY — DATE — G.R. SMITH/BRIDGE ENGINEER

ENGINEER'S SEAL
PROVINCE OF MANITOBA
C. D. STEWART
91/02/27
REGISTERED ENGINEER

CONSULTANT DRAWING NO.
890007-02-00

THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
STREETS AND TRANSPORTATION DEPARTMENT

EMPRESS STREET OVERPASS
STRUCTURE REHABILITATION, STRENGTHENING AND RELATED WORKS

NORTH PIER
EXPOSED CONCRETE SURFACE REPAIRS

CITY DRAWING NUMBER
B100-90-10D

B-5903-13