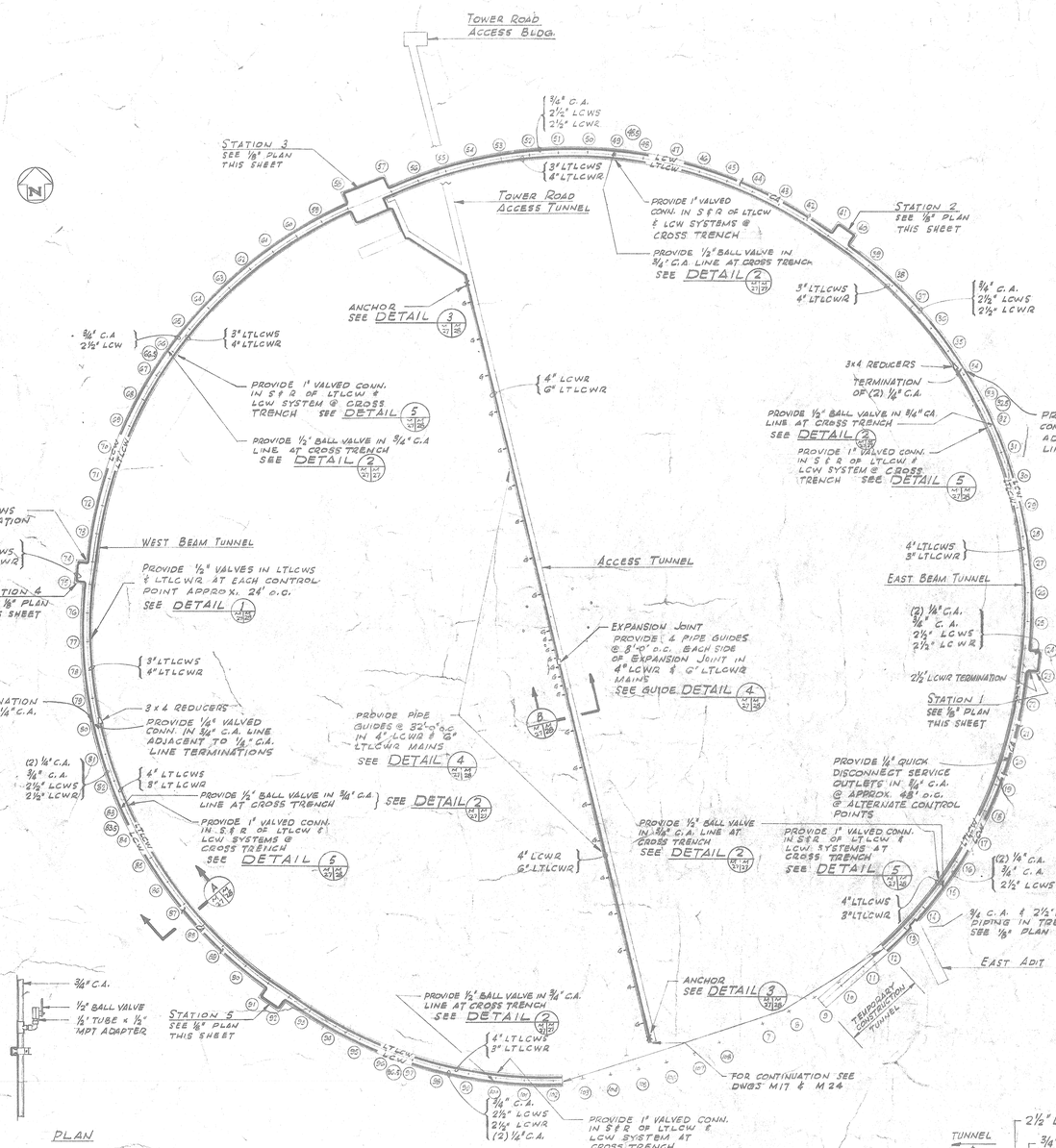
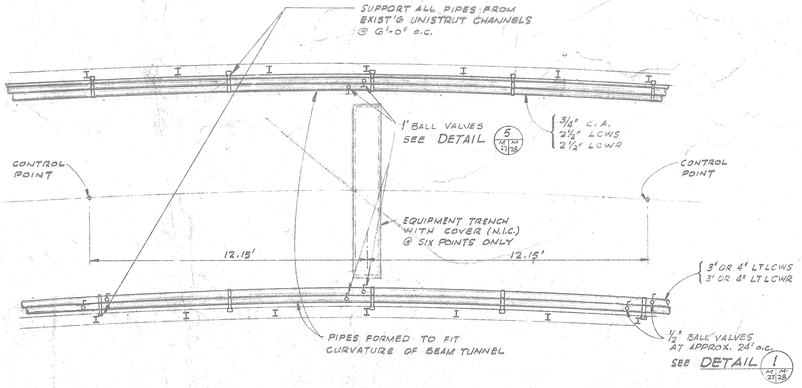


TUNNEL PIPING PLAN
SCALE 1" = 50'

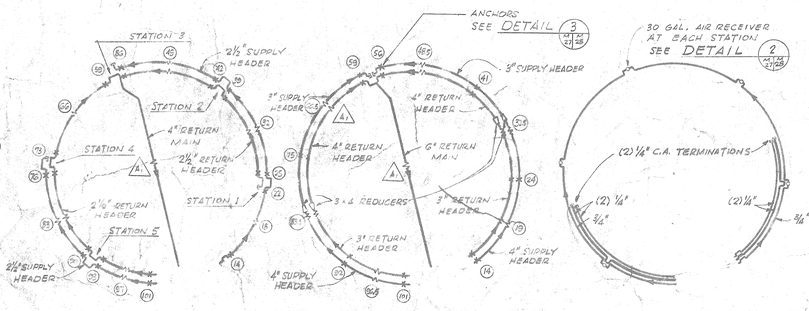


PLAN - TYPICAL SECTION OF BEAM TUNNEL
SCALE ⅜" = 1'-0"

LEGEND

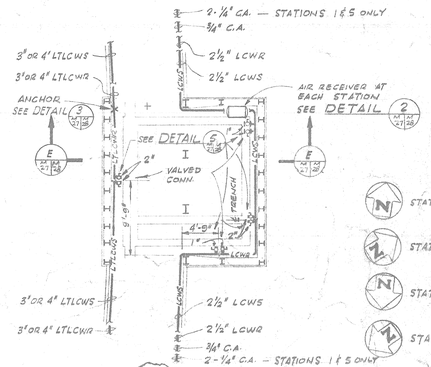
- LCWS — LOW CONDUCTIVITY WATER SUPPLY
- LCWR — LOW CONDUCTIVITY WATER RETURN
- LTLCWS — LOW TEMPERATURE LOW CONDUCTIVITY WATER SUPPLY
- LTLCWR — LOW TEMPERATURE LOW CONDUCTIVITY WATER RETURN
- CA — COMPRESSED AIR
- BALL VALVE
- CAP
- (21) CONTROL POINT NUMBER
- o.c. ON CENTERS
- N.I.C. NOT IN CONTRACT
- S SUPPLY
- R RETURN
- G GUIDE
- EXPANSION JOINT
- ANCHOR

EXPANSION JOINTS REQUIRED TRAVERSE			
	TRAVERSE FROM 60°F.		TOTAL TRAVERSE
	EXTENSION	COMPRESSION	
BEAM TUNNEL JOINTS	1 IN.	3 IN.	4 IN.
ACCESS TUNNEL JOINTS	2 IN.	5 IN.	7 IN.

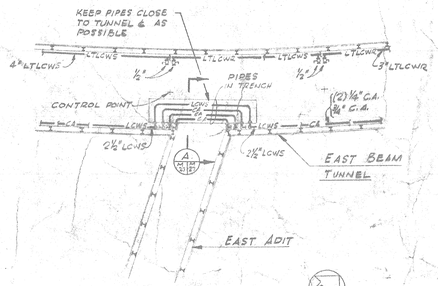


LCW SYSTEM LTLCW SYSTEM C.A. SYSTEM

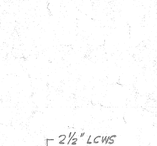
TUNNEL PIPING FLOW DIAGRAMS
NO SCALE



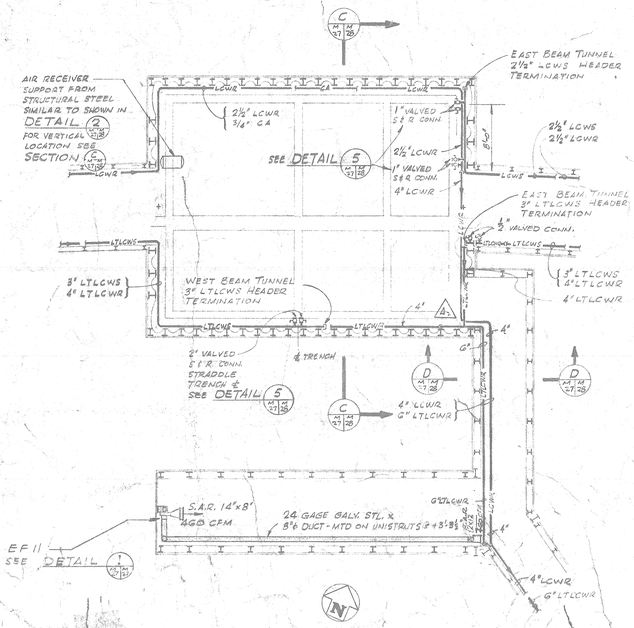
PLAN - STATIONS 1, 2, 4 & 5
SCALE ⅜" = 1'-0"



PLAN - PIPING TRENCH
SCALE ⅛" = 1'-0"



SECTION A
NO SCALE



PLAN - STATION 3
SCALE ⅛" = 1'-0"

DETAIL 1 M 27 25
SCALE 1" = 1'-0"

GENERAL NOTES

1. EMBEDDED UNISTRUTS ARE 6'-0" o.c. IN BEAM TUNNEL, 8'-0" o.c. IN ACCESS TUNNEL & 6'-0" o.c. ON SIDE WALLS OF STATIONS. USE FOR SUPPORTING MECHANICAL WORK.
2. FAN EF 11 CAPACITY SHOWN ON FAN SCHEDULE DWG. M 1.

LTR	REVISIONS	DATE	CHK'D	APP'D
4	(1) ADDED EXPANSION JOINTS TO FLOW DIAGRAM (2) CORRECTED PIPING.	10-1965 JKG	GEW WMB	

10 GEV CORNELL SYNCHROTRON LABORATORY

CORNELL UNIVERSITY
ITHACA NEW YORK

TUNNEL FINISHING WORK

SYNCHROTRON COOLING WATER & COMPRESSED AIR PIPING PLANS & FLOW DIAGRAMS

WILLIAM M. BROBECK AND ASSOCIATES
IAN MACKINLAY, AIA ARCHITECT
950 GILMAN ST. BERKELEY, CALIF. 94710
TELEPHONE 415 - 524 - 8664

DR. ROESSL CHK. [illegible] SUPV. [illegible] SCALE NOTED

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1:8"
1:10"

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