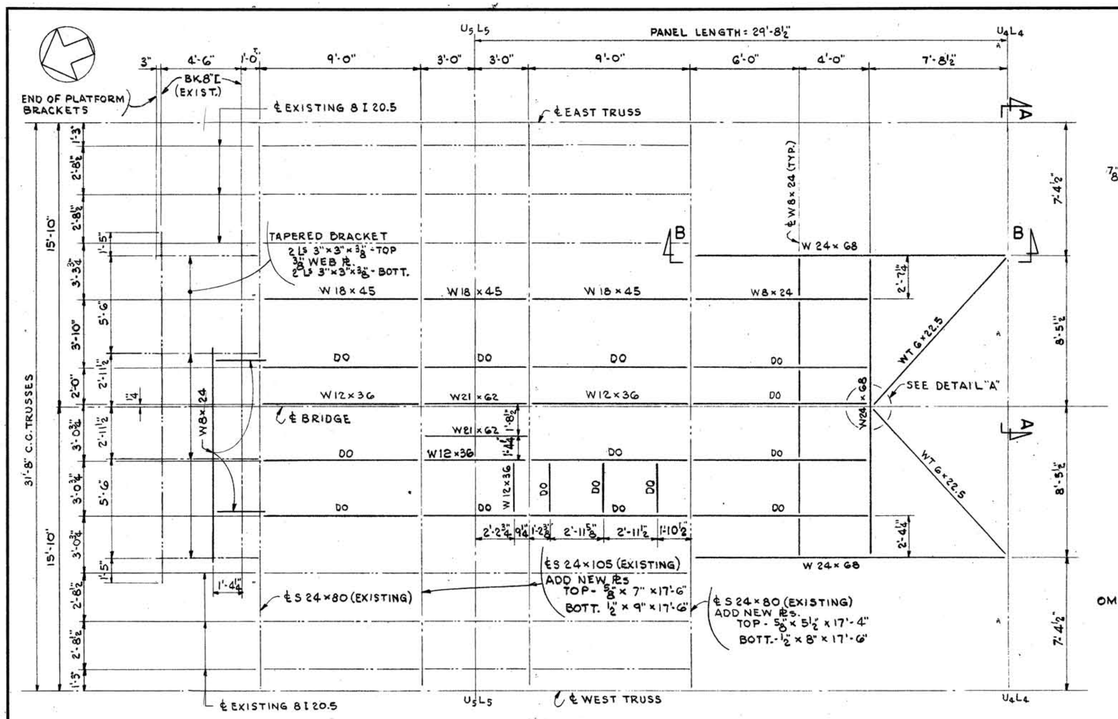
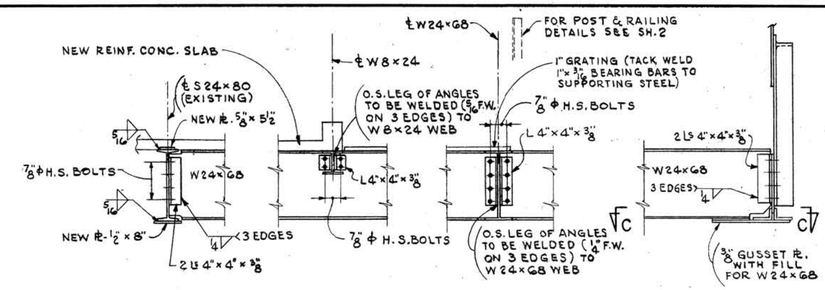


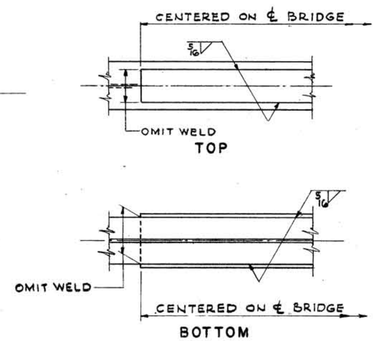
FRAMING PLAN

SCALE: 1/4" = 1'-0"



SECTION B-B

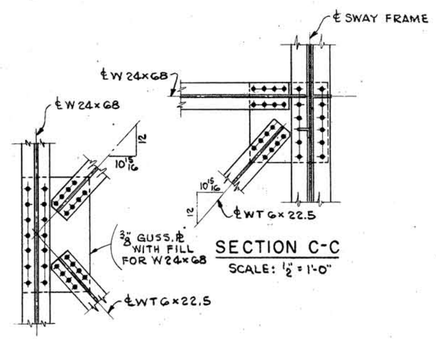
SCALE: 1/2" = 1'-0"



COVER PLATE DETAILS

NOT TO SCALE

(FOR SIZE AND LOCATION OF COVER PLATES, SEE FRAMING PLAN)

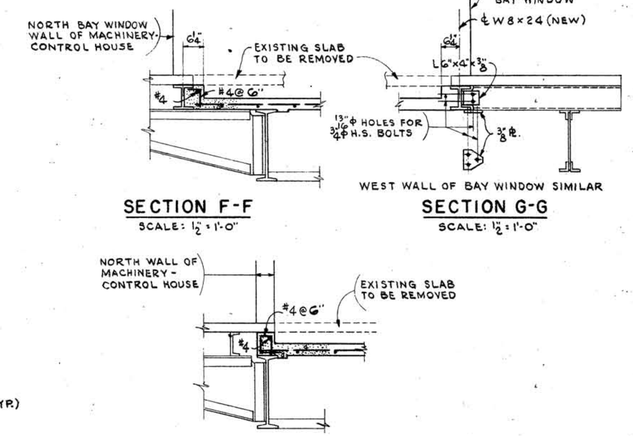


SECTION C-C

SCALE: 1/2" = 1'-0"

DETAIL "A"

SCALE: 1/2" = 1'-0"



SECTION F-F

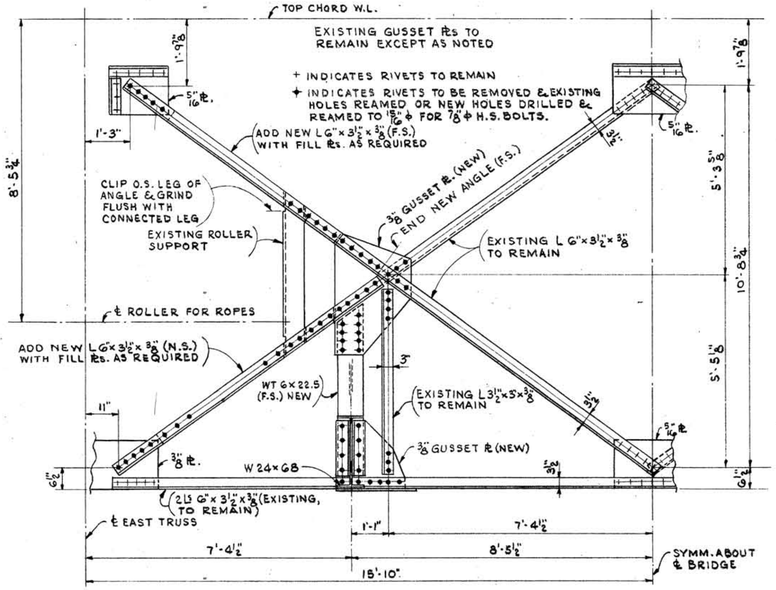
SCALE: 1/2" = 1'-0"

SECTION G-G

SCALE: 1/2" = 1'-0"

SECTION H-H

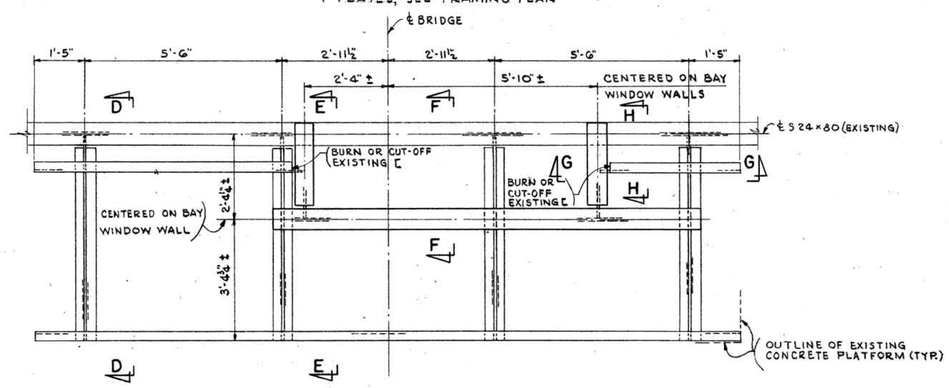
SCALE: 1/2" = 1'-0"



SECTION A-A

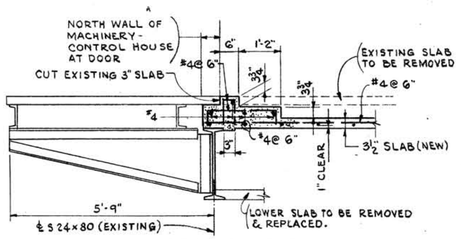
LOOKING SOUTH TOWARD SWAY FRAME AT U4L4

SCALE: 1/2" = 1'-0"



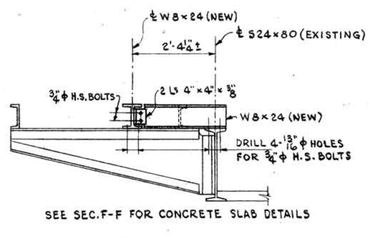
PLAN AT BAY WINDOW PLATFORM

SCALE: 1/2" = 1'-0"



SECTION D-D

SCALE: 1/2" = 1'-0"



SEE SEC. F-F FOR CONCRETE SLAB DETAILS

SECTION E-E

SCALE: 1/2" = 1'-0"

NOTE:

NORTH WALL OF MACHINERY CONTROL HOUSE, INCLUDING BAY WINDOW, SHALL BE SHORED BY CONTRACTOR DURING CONSTRUCTION OF SLAB AS REQUIRED.

NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
AND
STATE OF MAINE DEPARTMENT OF TRANSPORTATION

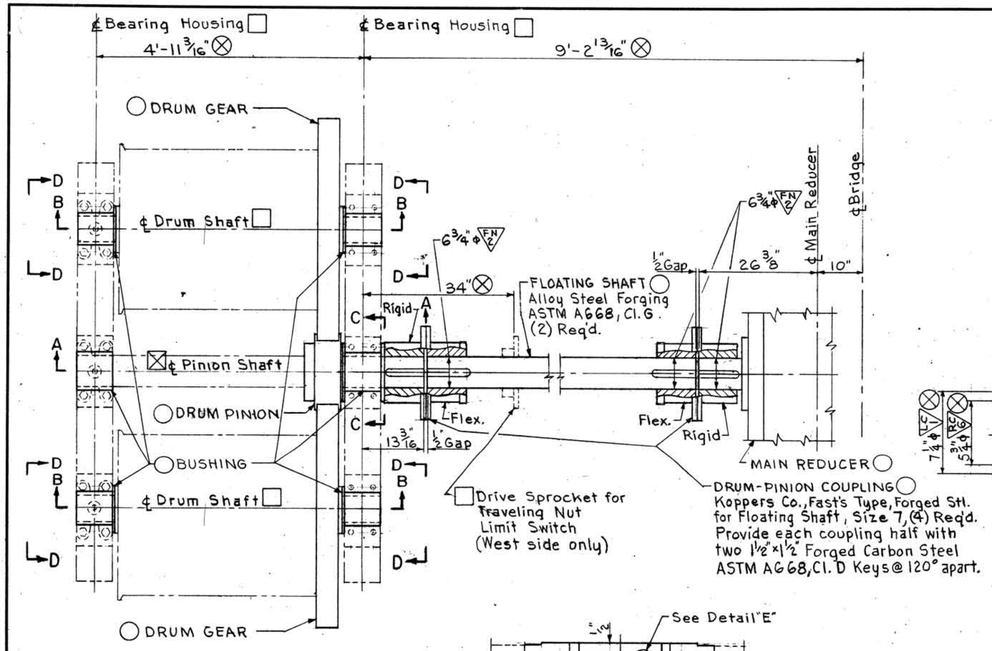
BRIDGE NO 247/084 (MEMORIAL BRIDGE)
ROUTE U S I OVER THE PISCATAQUA RIVER

FRAMING PLAN
MACHINERY - CONTROL HOUSE

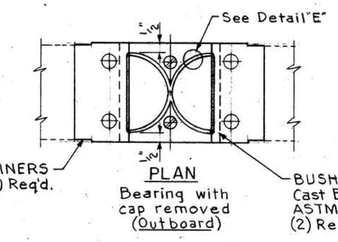
HARDESTY & HANOVER CONSULTING ENGINEERS NEW YORK, N.Y.	SCALE: AS NOTED DR. F.Mc. APPR. C.G. DATE: JUNE, 1975	NEW HAMPSHIRE PROJECT P-1961-A SHEET 3 OF 13

SHEET NO.	TOTAL SHEETS
4	14

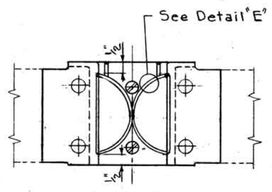
1-18-1-2



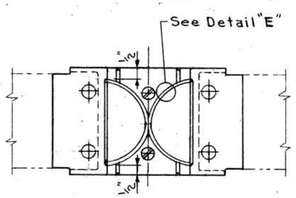
ENLARGED DETAIL
OF DRUM DRIVE
WEST DRUMS SHOWN
Scale: ¾" = 1'-0"



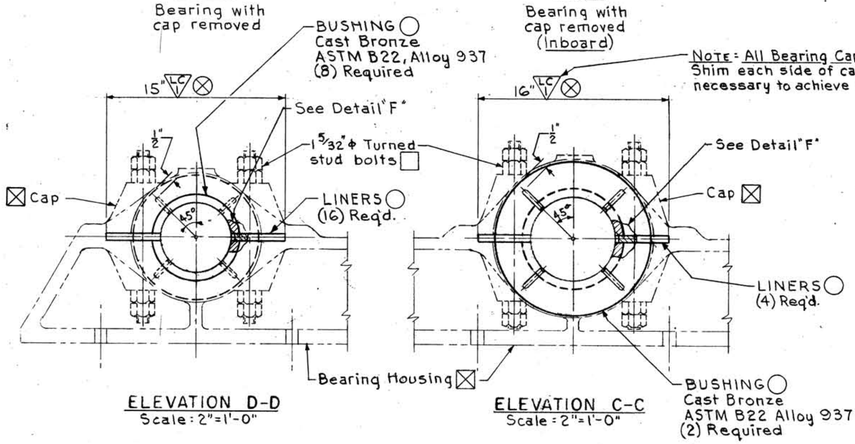
PLAN
Bearing with
cap removed
(Outboard)



PLAN
Bearing with
cap removed

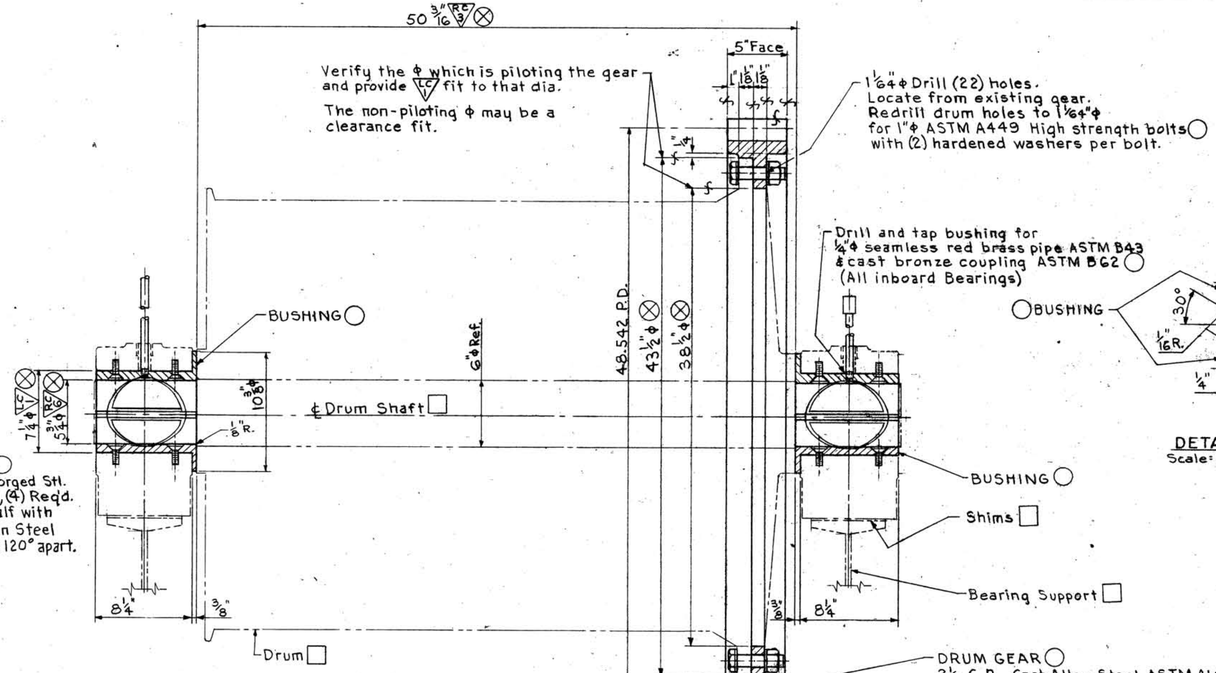


PLAN
Bearing with
cap removed
(Inboard)

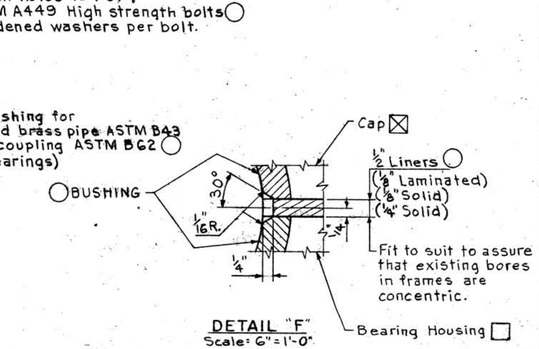


ELEVATION D-D
Scale: 2" = 1'-0"

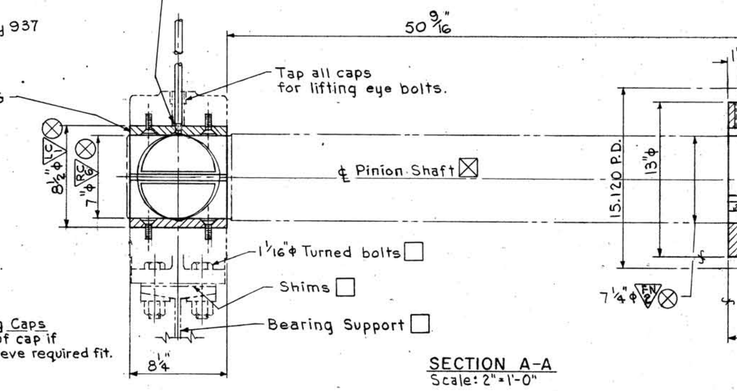
ELEVATION C-C
Scale: 2" = 1'-0"



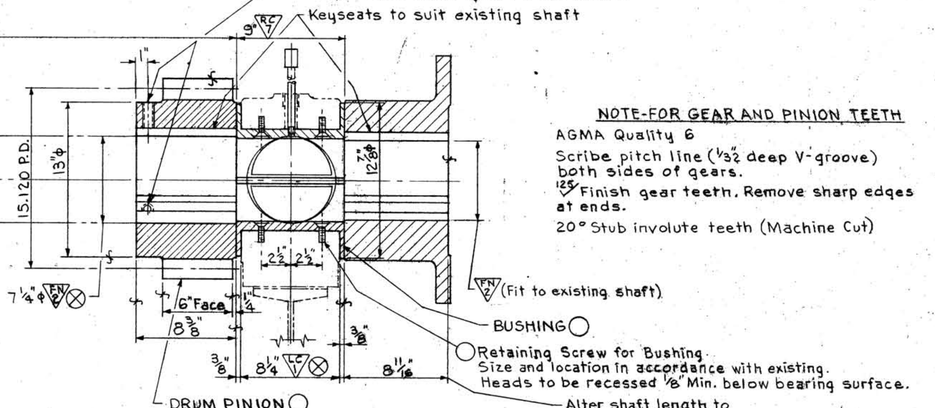
SECTION B-B
Scale: 2" = 1'-0"



DETAIL "F"
Scale: 6" = 1'-0"



SECTION A-A
Scale: 2" = 1'-0"



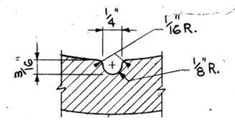
NOTE-FOR GEAR AND PINION TEETH

AGMA Quality 6

Scribe pitch line (1/32" deep V-groove) both sides of gears.

125 Finish gear teeth. Remove sharp edges at ends.

20° Stub involute teeth (Machine Cut)



DETAIL "E"
Double Oval Grease Groove
Machine Cut
Scale: 12" = 1'-0"

REFERENCES — SEE SHEET

Machinery Improvements Ass'y. & General Machinery Notes ---------- 6

NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
AND
STATE OF MAINE DEPARTMENT OF TRANSPORTATION

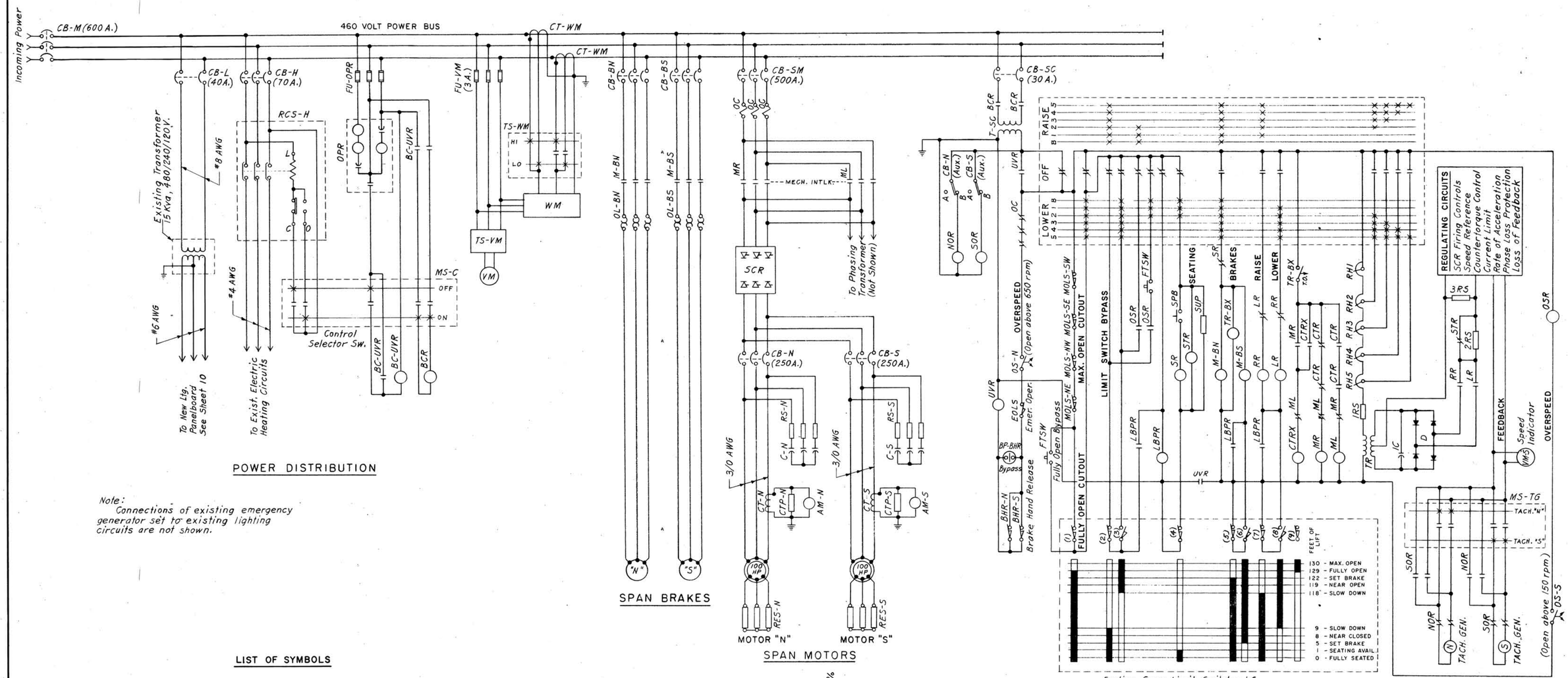
BRIDGE NO. 247/084 (MEMORIAL BRIDGE)
ROUTE U.S.1 OVER THE PISCATAQUA RIVER

MACHINERY IMPROVEMENTS
DETAILS-1

HARDESTY & HANOVER CONSULTING ENGINEERS NEW YORK, N.Y.	SCALE: As Noted DR. P.J.C. APPR. DATE: June, 1975	NEW HAMPSHIRE PROJECT P-1961-A SHEET 7 OF 13

SHEET NO.	TOTAL SHEETS
8	14

1-18-1-2



Exsting Span Limit Switch - LS

POWER DISTRIBUTION

Note:
Connections of existing emergency generator set to existing lighting circuits are not shown.

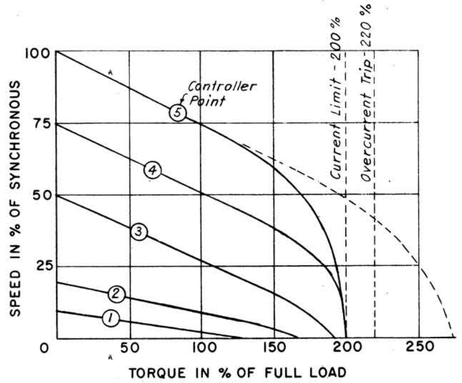
SPAN BRAKES

SPAN MOTORS

SPAN CONTROL

LIST OF SYMBOLS

- ○ – Coil of Magnetic Contactor or Relay
- – Thermal Overload Relay
- – Magnetic Overcurrent Relay
- – Contact of Magnetic Contactor or Relay, Normally Open
- – Contact of Magnetic Contactor or Relay, Normally Closed
- – Limit Switch Contact, Normally Open
- – Limit Switch Contact, Normally Closed
- T.C. – Timer Contact, Timed Closing (after Energizing)
- T.O. – Timer Contact, Timed Opening (after Energizing)
- T.C. – Timer Contact, Timed Closing (after Deenergizing)
- T.O. – Timer Contact, Timed Opening (after Deenergizing)
- – Air Circuit Breaker
- – N.E.C. Cartridge Fuse
- – Transformer Winding
- – Resistor, Fixed
- – Resistor, Adjustable
- – Rheostat
- – Rectifier
- – Capacitor
- – Pushbutton, Normally Open
- (R) – Indicating Light: R=Red, G=Green, A=Amber, W=White, B=Blue
- – Bypass Switch
- – Tumbler Switch, S.P.S.T.
- – Tumbler Switch, S.P.D.J.



SPEED TORQUE CHARACTERISTICS

GENERAL NOTES FOR ELECTRICAL WORK:

1. *Except where otherwise noted, all circuits are shown deenergized.*
2. *Limit switch contacts are shown for lift span seated and emergency clutch disengaged.*
3. *Unless otherwise noted, the minimum size wire in conduits shall be No.12 AWG.*
4. *Separate wire designations shall be assigned for each branch circuit neutral.*

NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
AND
STATE OF MAINE DEPARTMENT OF TRANSPORTATION

BRIDGE NO 247/084 (MEMORIAL BRIDGE)
ROUTE U S I OVER THE PISCATAQUA RIVER

WIRING DIAGRAM - SPAN DRIVE

HARDESTY & HANOVER CONSULTING ENGINEERS NEW YORK, N.Y.	SCALE: NONE DR. K.A.S. APPR. H.B.H. DATE: JUNE, 1975	NEW HAMPSHIRE PROJECT P-1961-A SHEET 9 OF 13

SHEET NO.	TOTAL SHEETS
10	14

1-18-1-2