

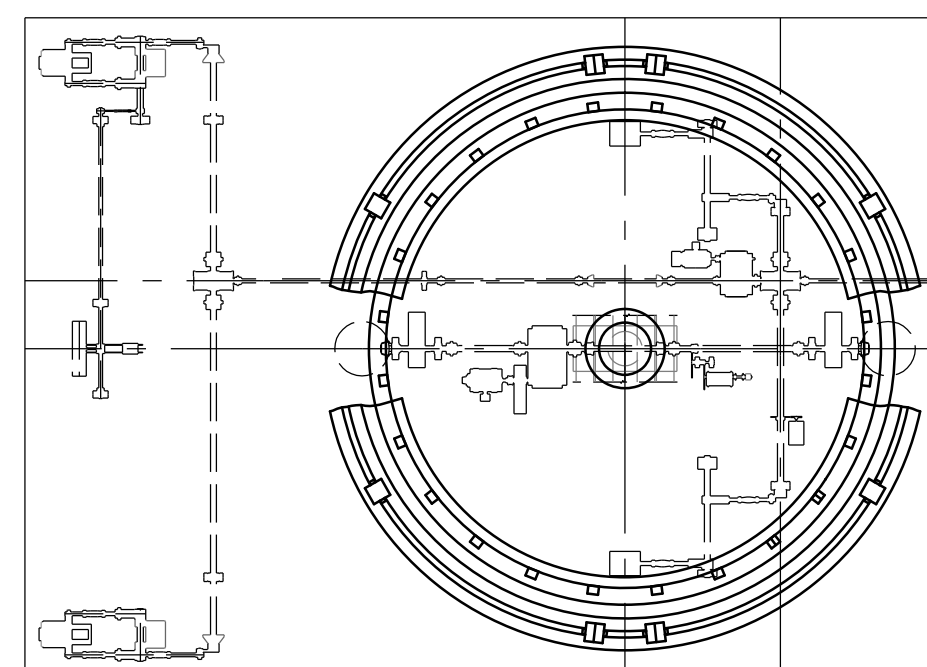
MACHINERY - GENERAL SCHEMATIC LAYOUT - PLAN

N.T.S.

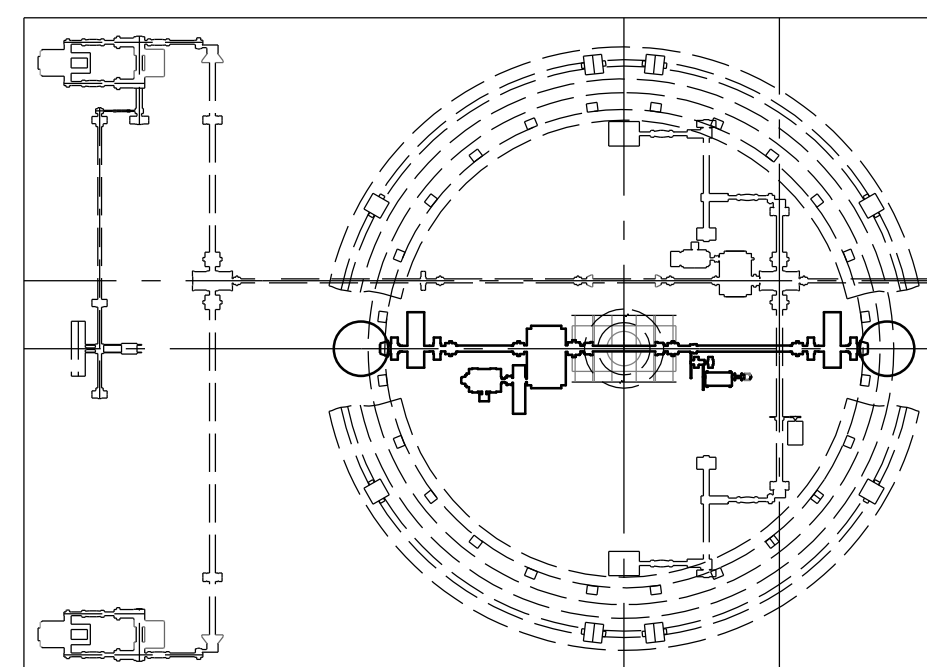
**MECHANICAL SCOPE/SEQUENCE OF WORK**

WORK TO INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING WORK ITEMS. DETAILS OF WORK ARE GIVEN ON DRAWINGS M1 THROUGH M23.

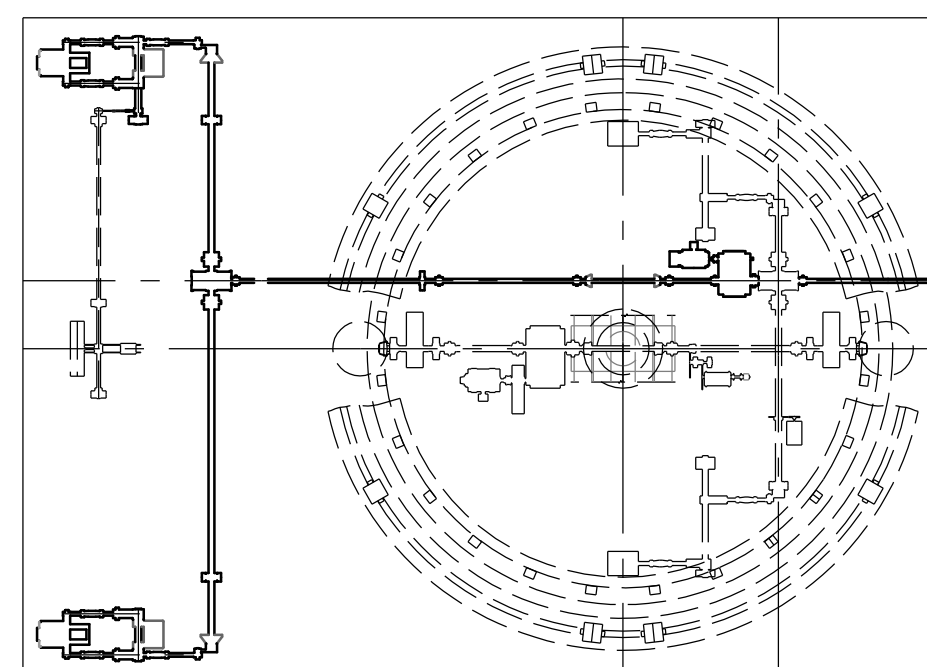
- 1.0 SURVEY AND JACKING
  - A. PRE-WORK JACKING MEASUREMENTS AND SURVEY
  - B. JACKING FOR ADJUSTMENT OF COMPONENTS
  - C. FINAL VERIFICATION SURVEY AND VERIFICATION ON END LOAD REACTIONS (SEE SPECIAL PROVISION 'STABILIZING MACHINERY' FOR REQUIREMENTS)
- 2.0 TEMPORARY/AUXILIARY OPERATING SYSTEM
  - A. PROVIDE INDEPENDENT DRIVE AND LABOR TO OPERATE THE SWING SPAN DURING MACHINERY REHABILITATION (SEE SPECIAL PROVISION 'AUXILIARY OPERATING SYSTEM' FOR REQUIREMENTS)
- 3.0 STABILIZING MACHINERY
  - A. REHABILITATE CENTER BEARING
  - B. REPLACE TRACK SECTIONS AND DETERIORATED ANCHORAGE
  - C. ADJUST BALANCE WHEEL CLEARANCES
- 4.0 TURNING MACHINERY
  - A. REPLACE RACK SECTIONS AND DETERIORATED ANCHORAGE
  - B. REPLACE RACK PINIONS AND RACK PINION SHAFTS
  - C. REHABILITATE RACK PINION BEARINGS
  - D. REPLACE BEVEL GEAR SETS
  - E. REPLACE HORIZONTAL DRIVE SHAFTING, BEARINGS AND COUPLINGS
  - F. REPLACE SPEED REDUCER
  - G. INSTALL NEW MOTOR AND BRAKES
  - H. INSTALL NEW LIMIT SWITCHES AND INSTRUMENT DRIVES
- 5.0 END WEDGE MACHINERY
  - A. REPLACE WEDGE ANGLES, WEDGES AND SEATS
  - B. REHABILITATE CRANKS AND REPLACE TURNBUCKLES
  - C. REPLACE TRANSVERSE SHAFTS AND BEARINGS
  - D. REHABILITATE WORM GEAR REDUCERS
  - E. REPLACE LONGITUDINAL SHAFTING, BEARINGS AND COUPLINGS
  - F. REPLACE SPEED REDUCER
  - G. INSTALL NEW MOTOR AND BRAKE
  - H. INSTALL NEW LIMIT SWITCHES AND INSTRUMENT DRIVES
- 6.0 CENTER WEDGE MACHINERY
  - A. REHABILITATE WEDGES AND RESET BASES
  - B. REHABILITATE CRANKS AND REPLACE TURNBUCKLES
  - C. REPLACE TRANSVERSE SHAFTS AND BEARINGS
  - D. REHABILITATE WORM GEAR REDUCER
- 7.0 CENTERING DEVICE MACHINERY
  - A. REHABILITATE LATCH BAR AND LATCH POCKET
  - B. REHABILITATE CRANKS AND REPLACE TURNBUCKLES
  - C. REHABILITATE TRANSVERSE SHAFTS AND BEARINGS



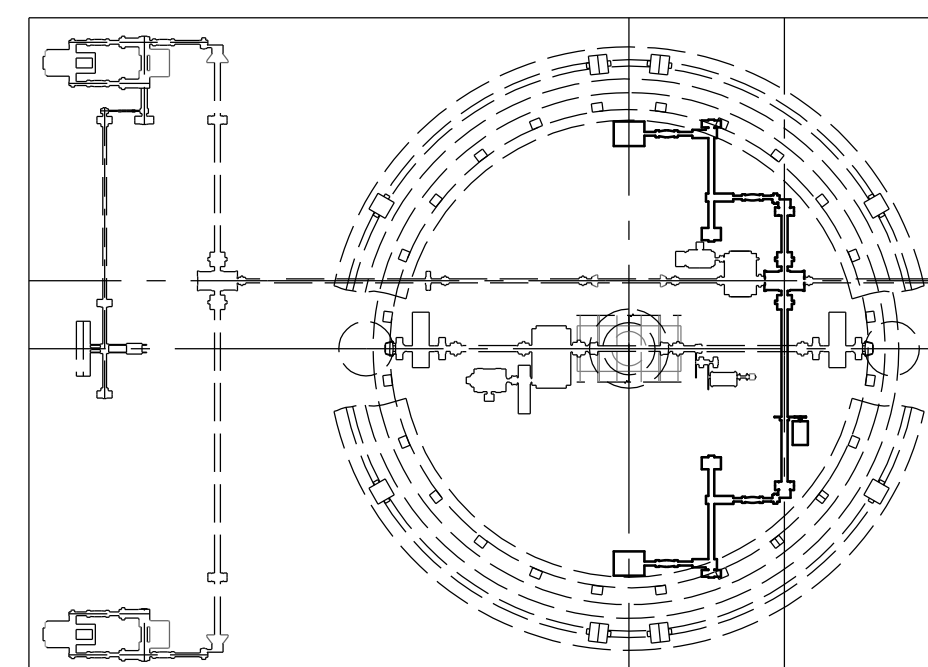
ITEM 3.0 - STABILIZING MACHINERY



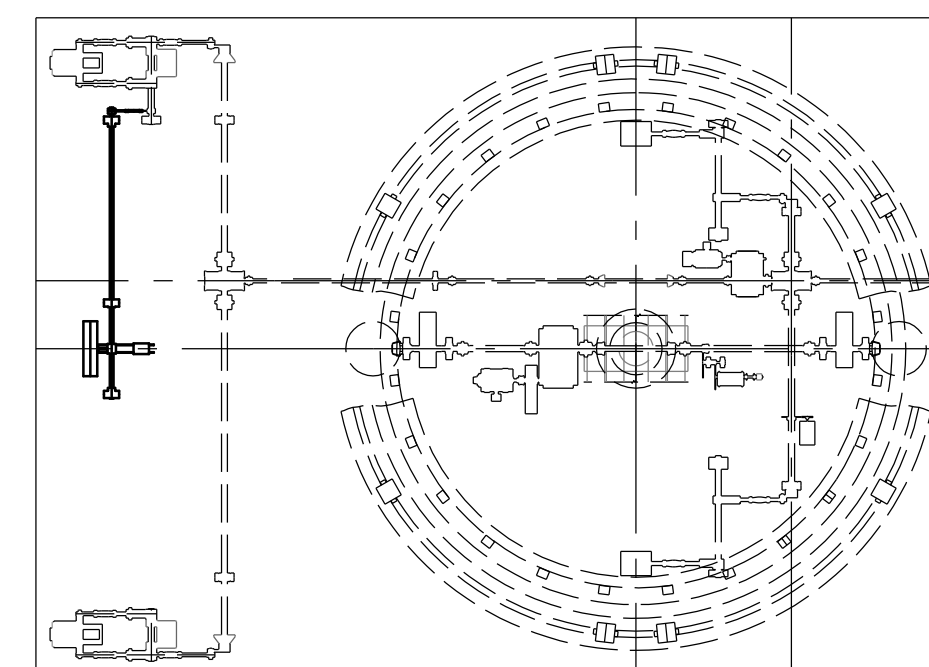
ITEM 4.0 - TURNING MACHINERY



ITEM 5.0 - END WEDGE MACHINERY (EACH END)



ITEM 6.0 - CENTER WEDGE MACHINERY



ITEM 7.0 - CENTERING DEVICE MACHINERY (EACH END)

**MACHINERY WORK - KEY PLANS**

N.T.S.

PROJECT NO. B-5936  
 TYRRELL COUNTY  
 BRIDGE NO. 7

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**MACHINERY  
 GENERAL LAYOUT**

**ALLIGATOR RIVER  
 SWING SPAN**

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

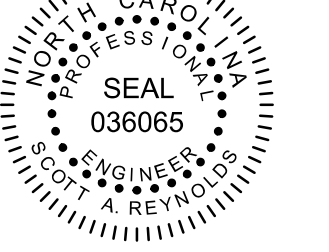
SHEET NO.  
**M-2**  
TOTAL SHEETS  
23

DRAWN BY: JAG/MS DATE: 8/8/2016  
 CHECKED BY: GAF/RH DATE: 8/8/2016  
 DESIGN ENGINEER OF RECORD: JAG/MS DATE: 8/8/2016

DWG NUMBER: 69 TOTAL DWGS: 90

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DocuSigned by:  
**Scott Reynolds**  
 SEAL 036065  
 9/14/2016



**HH Hardesty & Hanover**  
 engineering that moves you