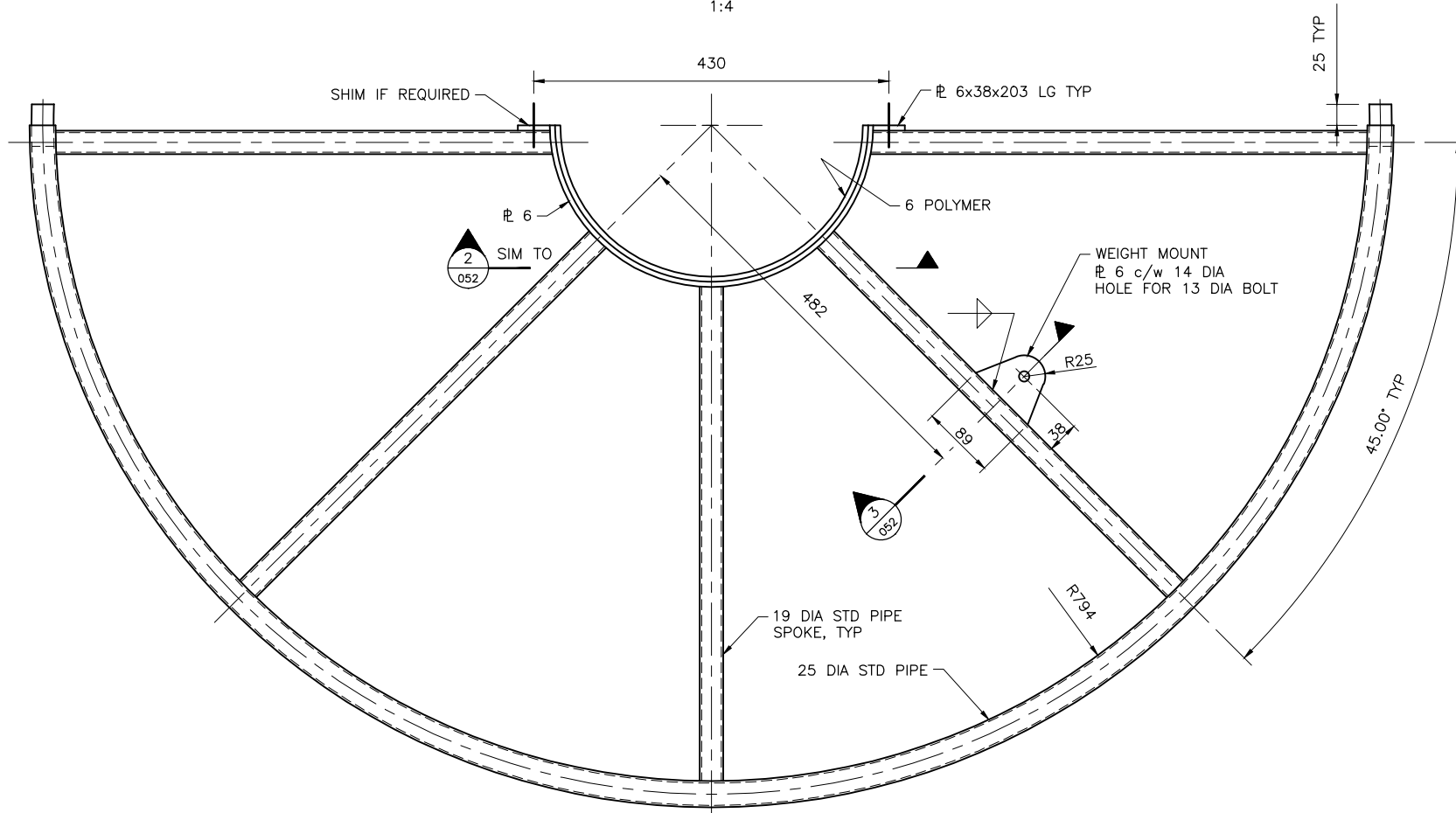


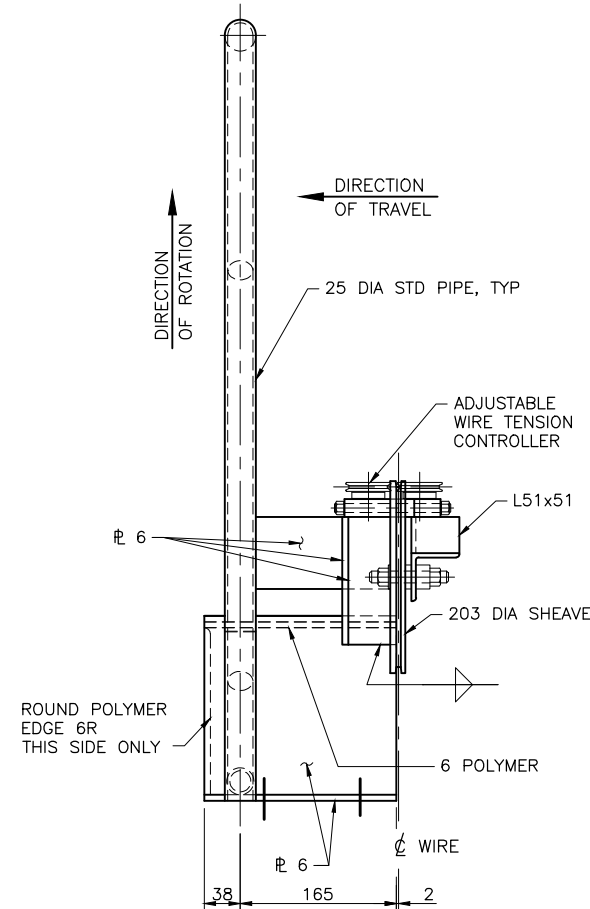
HALF WHEEL 'A' - 1 REQ'D

1:4



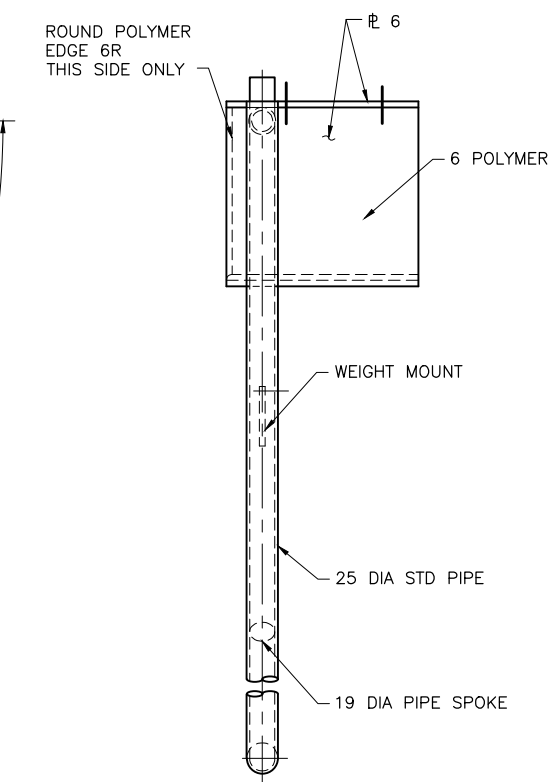
HALF WHEEL 'B' - 1 REQ'D

1:100



HALF WHEEL 'A' - SIDE VIEW

1:4



HALF WHEEL 'B' - SIDE VIEW

1:4

MATERIAL AND WELDING REQUIREMENTS:

- PIPES - ASTM A53
- PLATES AND ANGLES - CSA 40.12-M (300W)
- SHAFTS AND SPINDLES TO BE AISI 4140 NORMALIZED OR EQUAL.
- BOLTS - SAE GRADE 5 OR EQUAL
- WELDING SHALL BE COMPLETED BY A FABRICATOR CERTIFIED IN ACCORDANCE WITH CSA W47.1
- LOW FRICTION POLYMER TO BE TIVAR 1000 BY 'POLY HI SOLIDUR' OR EQUAL. SEE DATA SHEET.
- PAINT - ONE COAT SELF PRIMING ENAMEL, COLOUR TO SUIT.

REFERENCES:

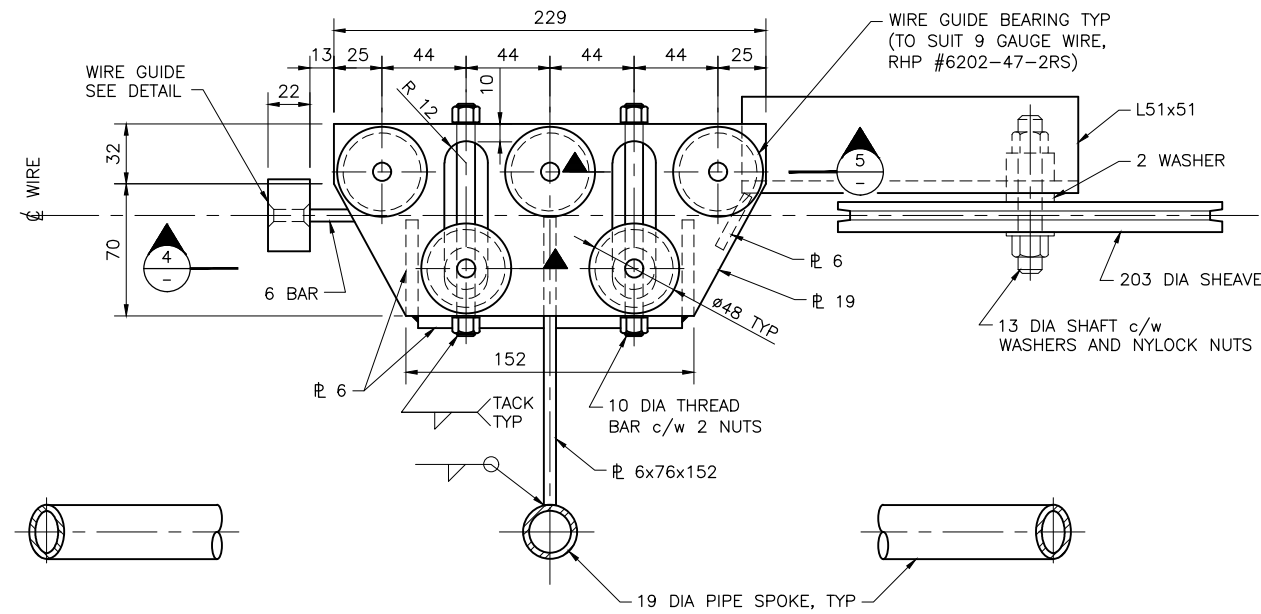
1. MILLER WELDING WIRE FEEDER PARTS
2. TIVAR 1000 DATA SHEET

NOTES:

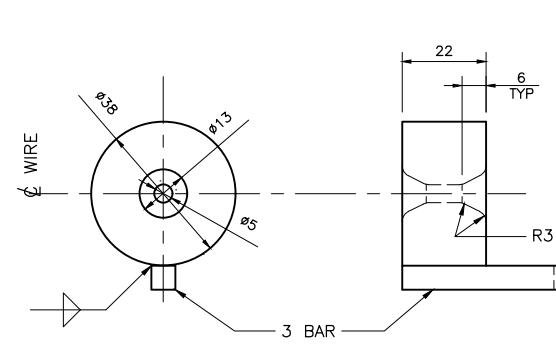
1. THIS DRAWING IS FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING SUITABILITY OF DEVICE FOR REQUIRED APPLICATION AND MAKING CHANGES TO THE DEVICE DESIGN AS NEEDED TO ENSURE ITS PROPER USE.
2. OBTAIN A WIRE FEEDER 60 LB SPOOL DRUM (NEW OR USED) PRIOR TO FINALIZING DIMENSIONS OR STARTING FABRICATION OF THE WRAPPER. SEE MILLER PARTS LIST.
3. CHECK THE WRAPPING DIRECTION (CLOCKWISE OR ANTI CLOCKWISE) EXISTING ON THE BRIDGE PRIOR TO MAKING SHOP DRAWINGS. THE WRAPPER MAY HAVE TO BE MADE "LEFT HANDED". WRAPPING MUST BE DONE IN THE UP SLOPE DIRECTION.
4. CHECK CLEARANCE OF THE WRAPPER DRIVE WHEEL FROM TOP OF TRUSS CHORD. MAKE SURE STAGING LEVEL CLEARS AS WELL.
5. CONTRACTOR TO MAKE OWN DETAIL SHOP DRAWINGS AND CONFIRM ALL DIMENSIONS.
6. THE WRAPPING DEVICE IS PUSHED ALONG CABLE BY THE WIRE WRAPPING. THE LOW FRICTION POLYMER LINER EDGE ON WRAPPING SIDE MUST THEREFORE BE SQUARE TO THE CABLE SURFACE. THE OTHER SIDE TO BE ROUNDED AS SHOWN.
7. THE 9 GAUGE WRAPPING WIRE MUST BE CAREFULLY SPOOLED TO SUIT (60 LB) WELDING WIRE SPOOL TO AVOID PROBLEMS IN FIELD.
8. USING A 13 1/16" O.D. TURNED WOOD POLE OR OTHER 13 1/16" O.D. ITEM TO SIMULATE THE MAIN BRIDGE CABLE, PERFORM TEST WRAPPING TO PROVE THE EFFECTIVENESS OF THE WRAPPER AND TRAIN OPERATORS PRIOR TO MOBILIZING TO THE BRIDGE.
9. ADJUST TENSION DEVICE TO GIVE DESIRED WIRE TENSION.
10. INSTALL COUNTERWEIGHT PLATES TO ADEQUATELY BALANCE THE WEIGHT OF THE WIRE TO START, THEN REMOVE WEIGHTS AS DESIRED AS THE WRAPPING PROGRESS.
11. THIS WRAPPING DEVICE IS INTENDED FOR WRAPPING SHORT LENGTHS OF CABLE. THE OPERATION REQUIRES CONSIDERABLE WORKER EFFORT. WORKERS MUST BE FIT.

Rev	Date	Description	Init
REVISIONS			
		Ministry of Transportation & Infrastructure South Coast Region	
LIONS GATE BRIDGE CABLE INSPECTION & REWRAPPING MANUAL CABLE WRAPPING DEVICE SHEET 1 OF 2			
PREPARED UNDER THE DIRECTION OF _____		DESIGNED _____ DATE _____	
ENGINEER OF RECORD _____		CHECKED _____ DATE _____	
DATE _____		DRAWN _____ DATE _____	
FILE No. _____		SCALE AS NOTED	
PROJECT No. 13174-0001		NEGATIVE No. _____	
REG. 1		DRAWING No. SK-020	

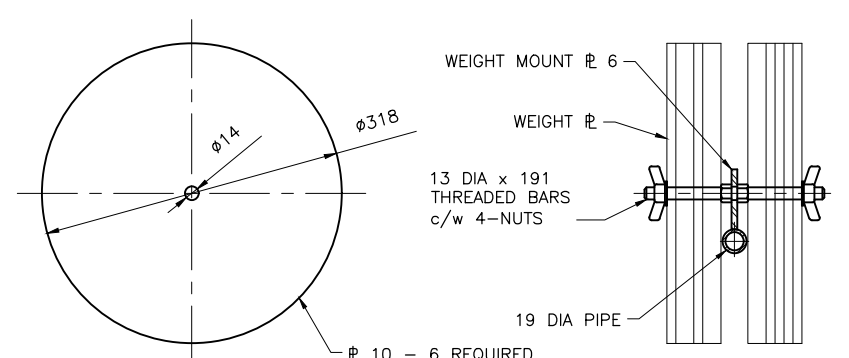
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SECTION 1
1:2 **023**

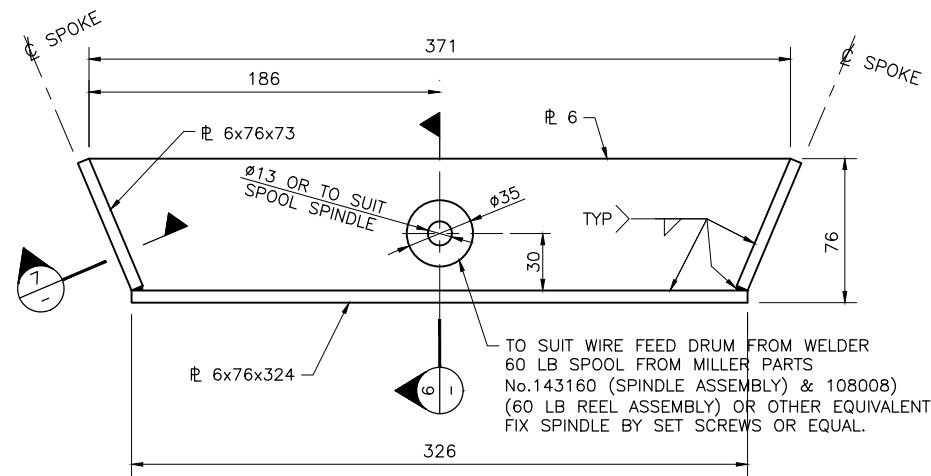


WIRE GUIDE DETAIL
1:1

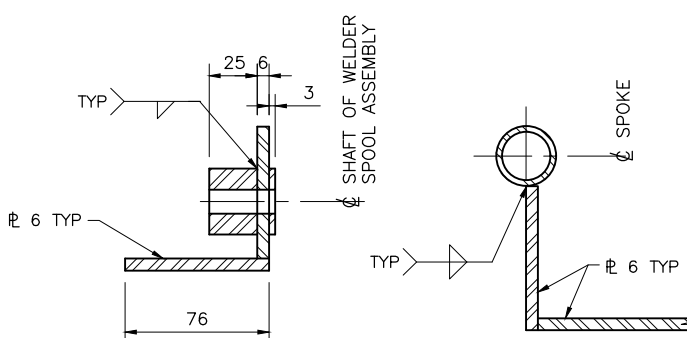


WEIGHT P DETAIL
1:4

SECTION 3
1:4 **023**

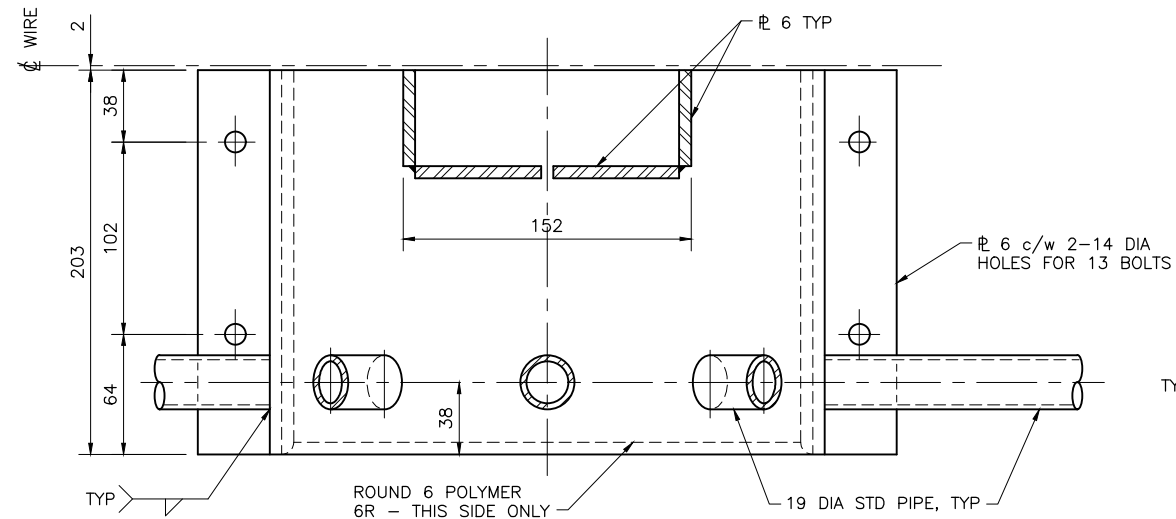


DETAIL A
1:2 **004**

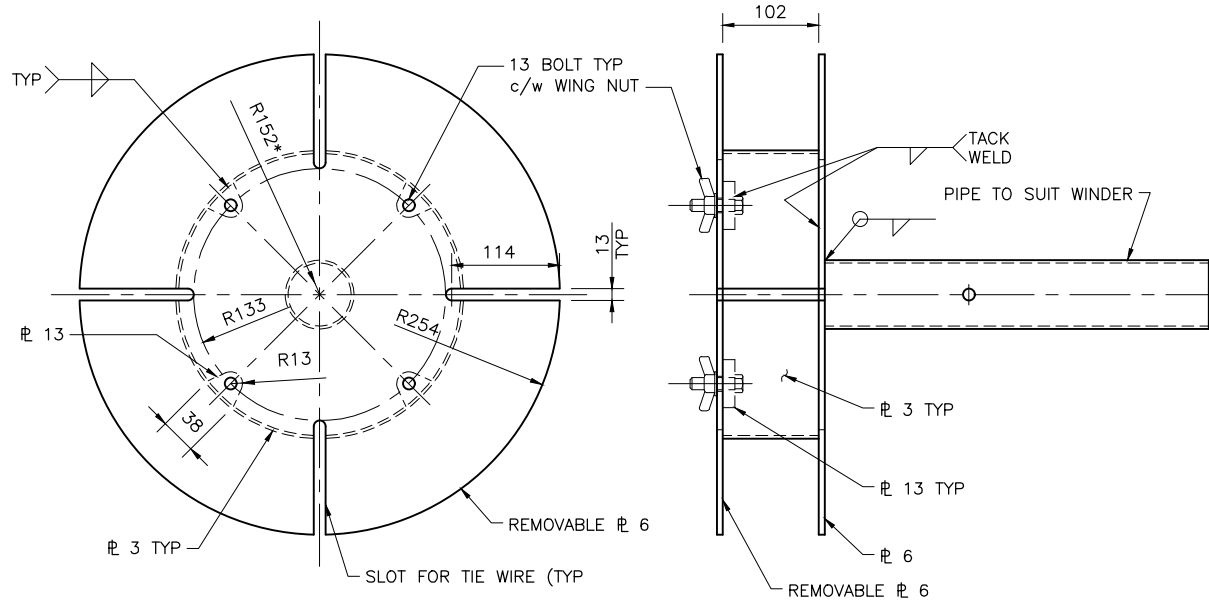


SECTION 6
1:2

SECTION 7
1:2

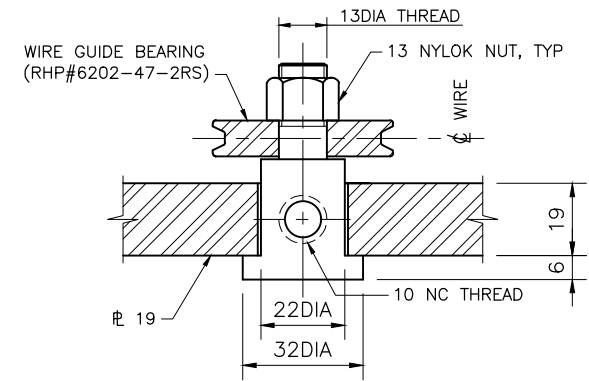


SECTION 2
1:2 **023**

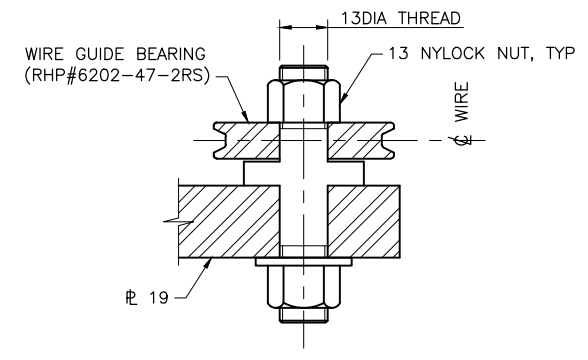


WIRE SPOOLING DRUM DETAIL
1:4

NOTE:
FOR SPOOLING 9 GAUGE WIRE INTO SPOOLS TO SUIT WIRE FEEDER DRUM.
(NOT REQUIRED IF WIRE CAN BE PURCHASED SPOOLED TO SUIT REEL)
* - DIMENSIONS TO SUIT WIRE FEED DRUM USED ON WRAPPER



SECTION 4
1:1



SECTION 5
1:1

Consultant Logo			
COWI			
Rev	Date	Description	Init

REVISIONS	

BRITISH COLUMBIA Ministry of Transportation & Infrastructure
South Coast Region

**LIONS GATE BRIDGE CABLE INSPECTION & REWRAPPING
MANUAL CABLE WRAPPING DEVICE
SHEET 2 OF 2**

PREPARED UNDER THE DIRECTION OF	DESIGNED _____ DATE _____
ENGINEER OF RECORD	CHECKED _____ DATE _____
DATE	DRAWN _____ DATE _____
FILE No.	SCALE AS NOTED
PROJECT No.	NEGATIVE No.
REG. 1	DRAWING No. SK-021

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