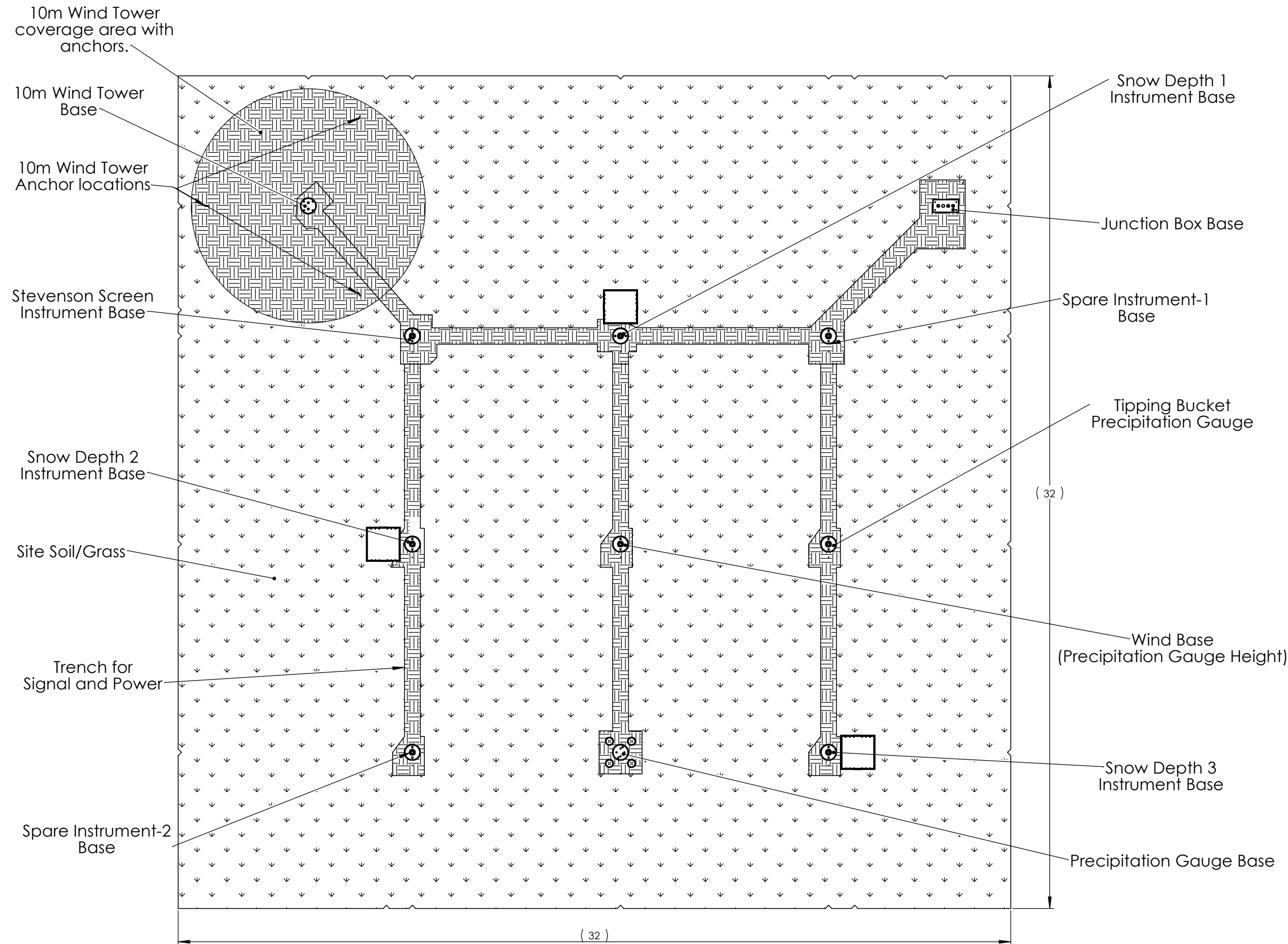


Automatic Weather Stations Square Layout (32m x 32m)



REVISION HISTORY

REV.	DESCRIPTION	DATE	INIT.
01	Initial Release	17/APR/15	M.S

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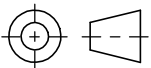
DESIGN: **J. HOOVER / M. SINGH** 11-JUN-2015

APPROVED: **SORIN PINZARIU / P. LEJBJUK** 11-JUN-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:

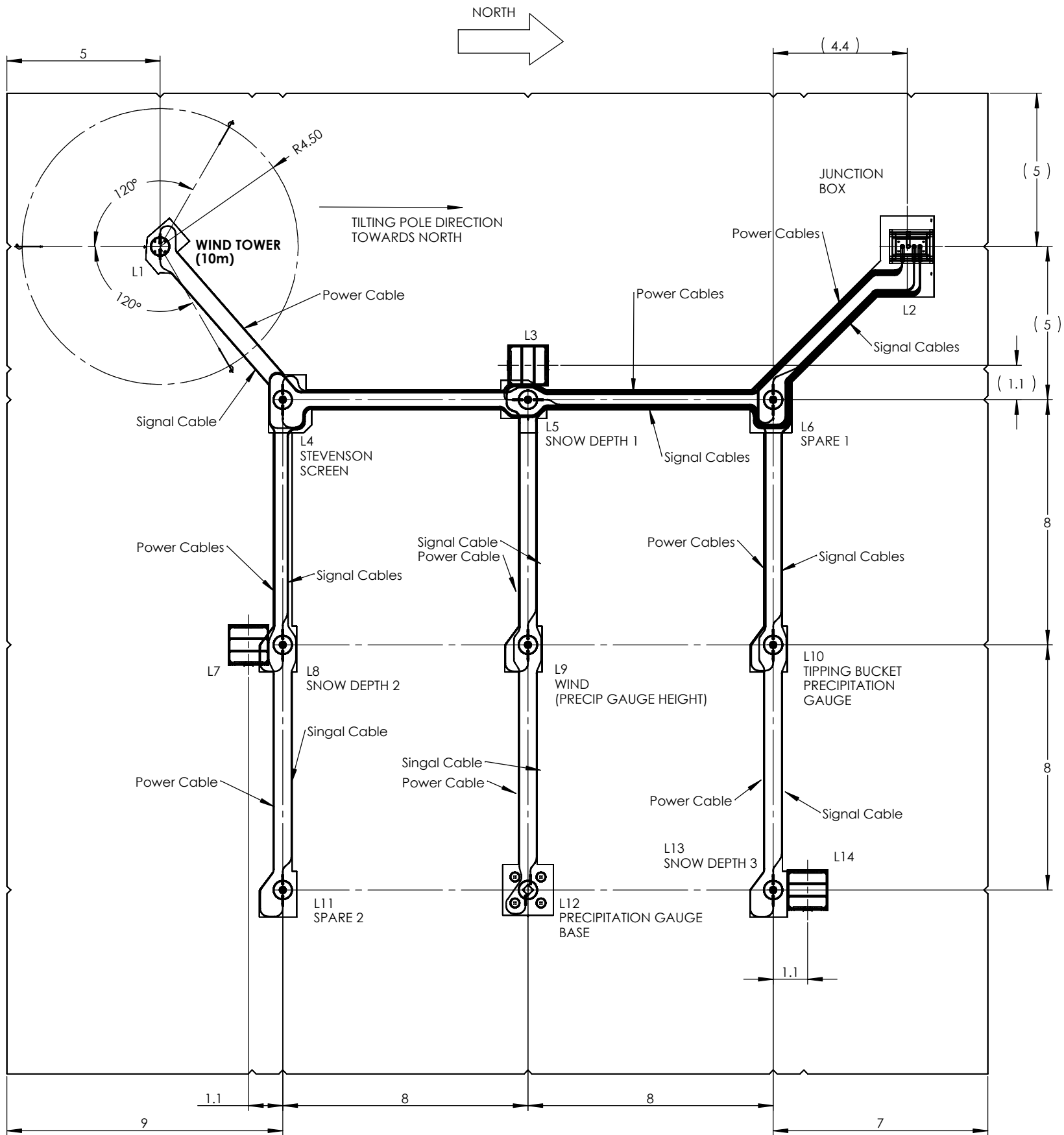


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TITLE: **Automatic Weather Station Layout-Square**

DRAWING NUMBER: **GND-AWS-LA1** REVISION: **01**



AWS Instrument Base Drawing Details

LOCATION	INSTRUMENT	CONCRETE BASE	DRAWING
L1	WIND TOWER (10 m)	WIND BASE	GND-AWS-B1
L2	JUNCTION BOX	JUNCTION BOX BASE	GND-AWS-D1
L3	N/A	SNOW DEPTH TARGET WITH HDPE FRAME	GND-SDT-B00
L4	STEVENSON SCREEN	INSTRUMENT BASE	GND-AWS-A1
L5	SNOW DEPTH 1	INSTRUMENT BASE	GND-AWS-A1
L6	SPARE 1	INSTRUMENT BASE	GND-AWS-A1
L7	N/A	SNOW DEPTH TARGET WITH HDPE FRAME	GND-SDT-B00
L8	SNOW DEPTH 2	INSTRUMENT BASE	GND-AWS-A1
L9	WIND (PRECIP GAUGE HEIGHT)	INSTRUMENT BASE	GND-AWS-A1
L10	TIPPING BUCKET PRECIPITATION GAUGE	INSTRUMENT BASE	GND-AWS-A1
L11	SPARE 2	INSTRUMENT BASE	GND-AWS-A1
L12	PRECIPITATION GAUGE	PRECIPITATION BASE	GND-AWS-C1
L13	SNOW DEPTH 3	INSTRUMENT BASE	GND-AWS-A1
L14	N/A	SNOW DEPTH TARGET WITH HDPE FRAME	GND-SDT-B00

Description	Material	Qty.
ELECTRICAL POWER CABLE, TECK MULTICONDUCTURE, 2 Conductor, 12AWG 600V Cable (P/N 7TE-1202 - ANIXTER)	N/A	355 m
ELECTRICAL SIGNAL CABLE, MINIMUM 4 TWISTED SHIELDED PAIRS, 18 AWG 300V ARMORED, INDIVIDUAL AND OVERALL SHIELDED CABLE (P/N: 323-539-1804 - ANIXTER)	N/A	355 m

NOTE: The Cable Lengths are based on the drawing layout. The contractor must calculate cable length for variations in layout.

- NOTES:
- Minimum 3" additional arrix 6mm (nominal) screened sand added along trench bottom.
 - Electrical cable instalation must meet all regional standards and canadian electrical code.
 - 10" minimum electrical cable bend radius.
 - 18" minimum electrical cable depth below grade.
 - 8" minimum electrical power and signal cable seperation for paralled cable run.
 - 4" minimum electrical power and signal cable seperation for perpendicular cable crossing. Use arrix 6mm (nominal) screened sand.
 - Electrical power and signal cable must extend 3m above conduit at all bases.
 - Grounding rod assemblies to be installed at all bases.
 - 8" minimum ground rod depth below grade at all bases.
 - 8" minimum clearnace between grounding rod and bases.
 - Grounding cables shall extend minimum 36" above instrument base.
 - Minimum 3" additional arrix 6mm (nominal) screened sand added on the top of the cables.
 - See individual drawings for details of heights above ground.
 - Apply flagging and warning tapes to mark electrical signal and power cables within the trench.
 - Screened sand shall be compacted to meet regional standars prior to backfilling the trench.
 - Soil around footing shall be compacted as per regional standards.
 - Concete must meet regional standard and CSA A23.1, CSA A23.3. Concrete compressive strength shall be > 31 MPa at 28 days. Do not use rapid setting mixtures.
 - Concrete to have air entrapment and air content of 4-9% as per ASTM C457, freeze that resitance durability >90% as per ASTM C666.
 - Check frost line requirement and provide minimum depth fro frost protection. reinforcing bars need not be modified.
 - All excavations shall be kept dry, by pumping if necessary, before pouring concrete and shall be kept dry until backfilling is in place.
 - All visible portions of the concrete form and scrap shall be removed from the site.
 - Trench width shall be as per the layout drawing GND-AWS-LA3 .
 - Instrument base holes centered across trench width.
 - Sonotube to be used only in the top section of bases. No sonotubes to be installed at the bottom of bases. See individual bases for details.
 - Surface automatic station layout alignment from true north shall be included in site installation documentation.

REVISION HISTORY

REV.	DESCRIPTION	DATE	INITIAL
01	Initial Release	17/APR/15	MS

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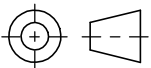
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APPROVED: **SORIN PINZARIU / P. LEJBKUK** 11-JUN-2015

MATERIAL: **N/A**

FINISH: **N/A**

SPECIFICATION:



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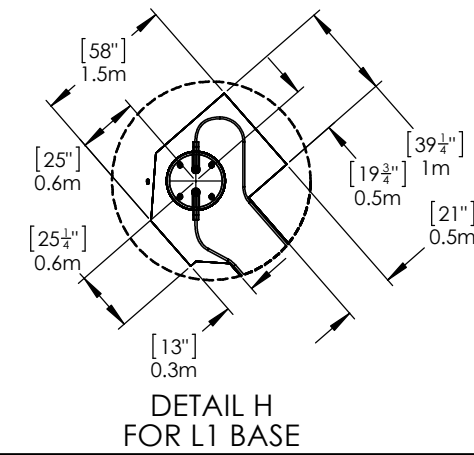
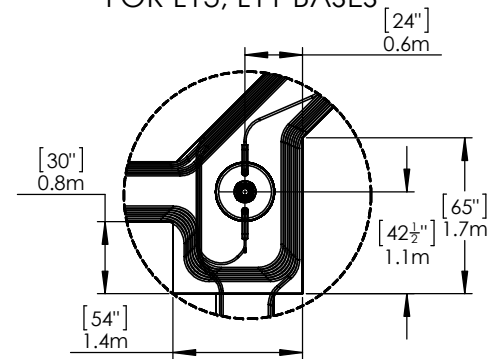
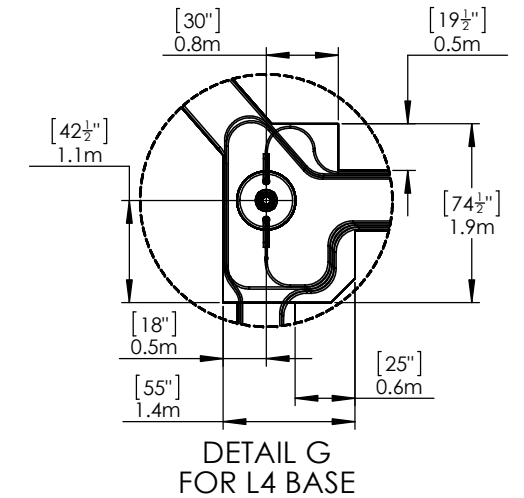
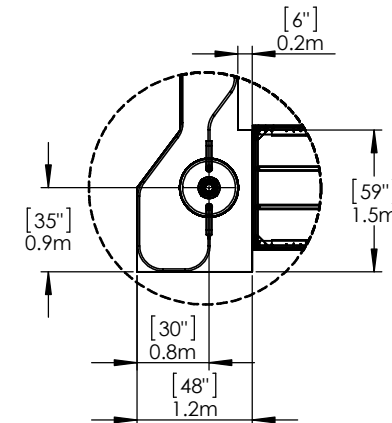
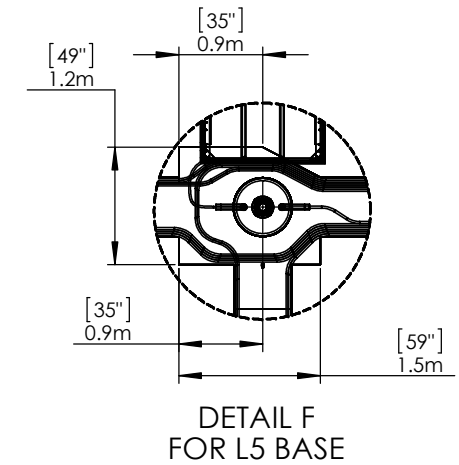
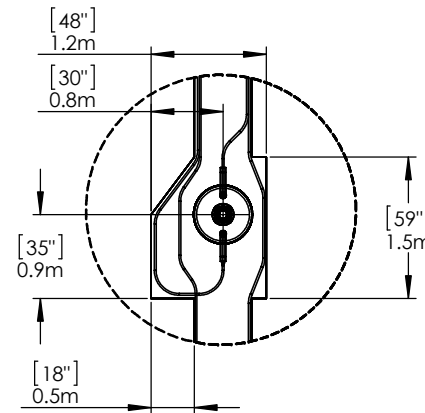
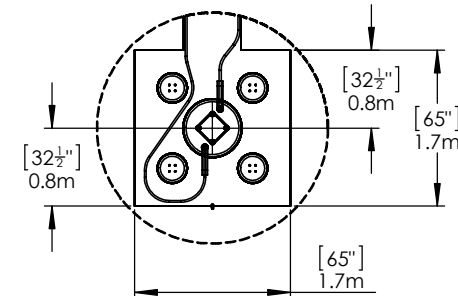
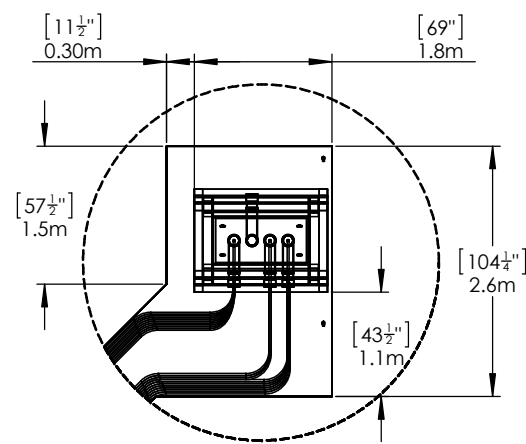
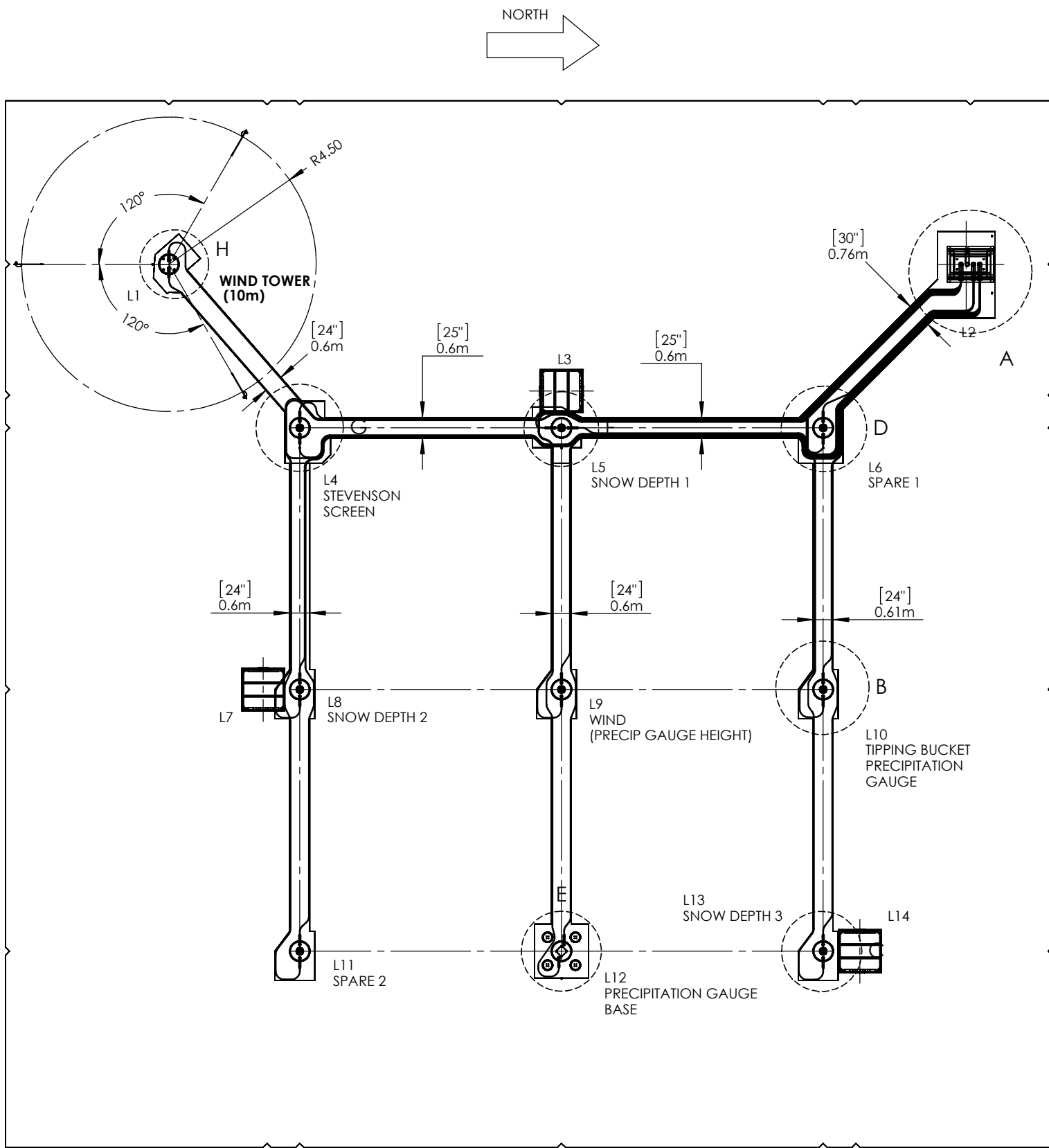


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TITLE:
AWS Instrument Base Locations

DRAWING NUMBER: **GND-AWS-LA2** REVISION: **01**



REVISION HISTORY

REV.	DESCRIPTION	DATE	INITIAL
01	INITIAL RELEASE	10/JUN/15	M.S

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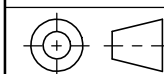
DESIGN: **J. HOOVER / M. SINGH** 11-JUN-2015

APPROVED: **SORIN PINZARIU / P. LEJBJUK** 11-JUN-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:



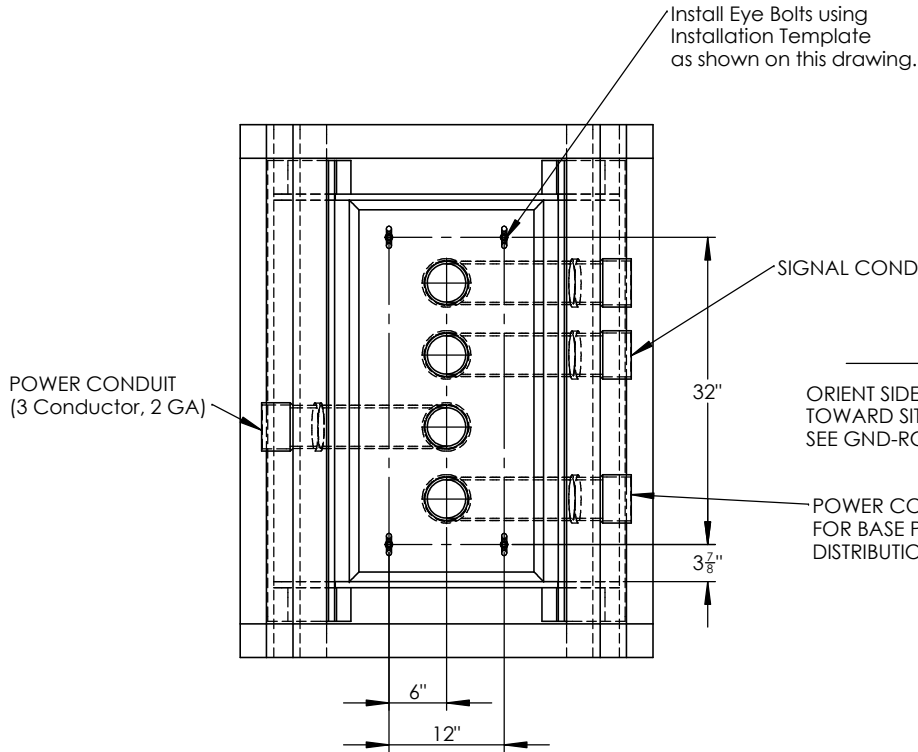
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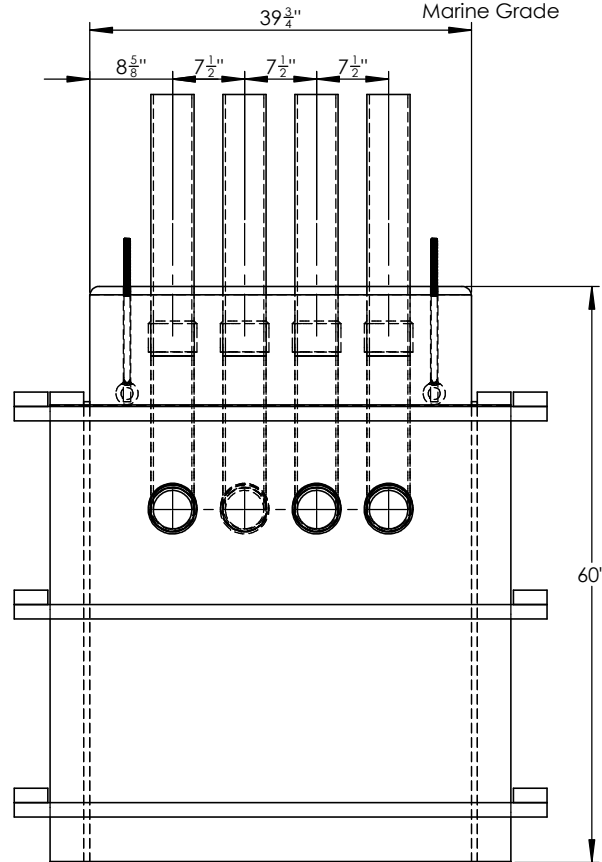
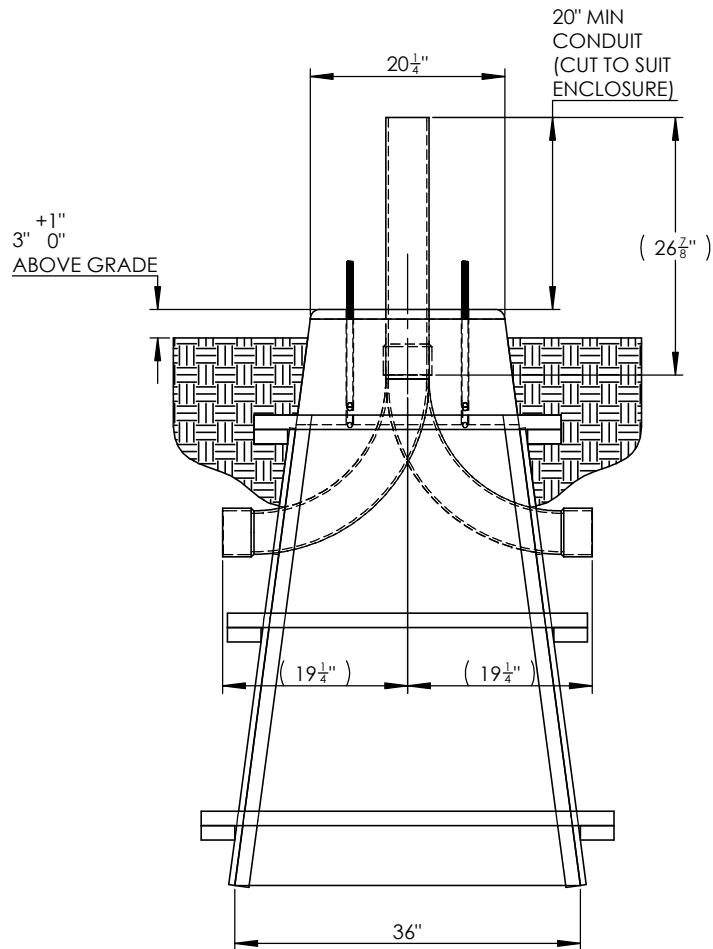
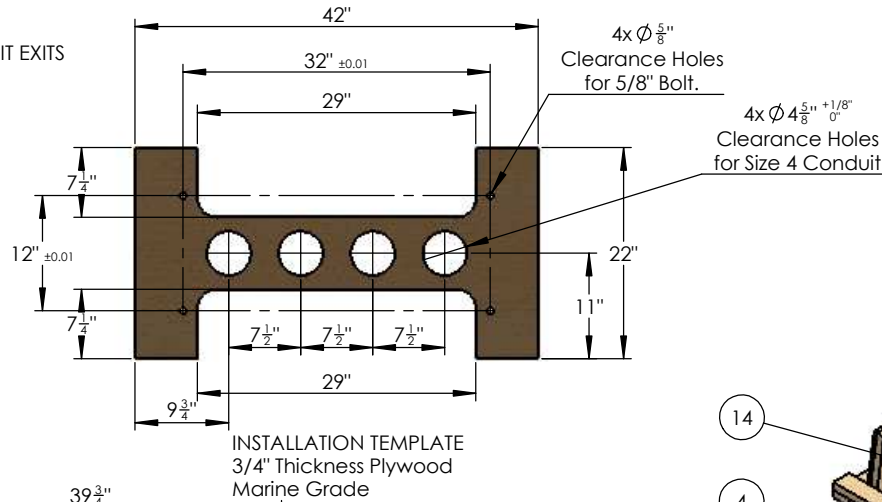
TITLE: **AWS Instrument Base and Trench Details**

DRAWING NUMBER: **GND-AWS-LA3** REVISION: **01**



ORIENT SIDE WITH 3 CONDUIT EXITS TOWARD SITE INSTRUMENTS. SEE GND-RCS-LA3

POWER CONDUIT FOR BASE POWER DISTRIBUTION.



ITEM NO.	DESCRIPTION	DRAWING NUMBER	QTY.
1	LOWER END PLYWOOD SHEET	GND-AWS-D2	2
2	2X4 LUMBER, 60" LENGTH	-	4
3	3-HOLE PLYWOOD SHEET	GND-AWS-D2	1
4	1-HOLE PLYWOOD SHEET	GND-AWS-D2	1
5	2X4 LUMBER, 55" LENGTH	-	6
6	2X4 LUMBER, 43" LENGTH	-	2
7	2X4 LUMBER, 37.5" LENGTH	-	2
8	2X4 LUMBER, 32" LENGTH	-	2
9	CONCRETE	-	1.5 cu.m
10	EYE BOLT, 5/8"-11, 6" MIN THREAD, LENGTH 16" to 24"	-	4
11	UPPER CONDUIT, 4" DIAMETER, 27" LENGTH	-	4
12	CONDUIT ELBOW, 4" DIAMETER	-	4
13	JUNCTION BOX MOUNTING TEMPELATE	GND-AWS-D2	1
14	UPPER SIDE PLYWOOD SHEET	GND-AWS-D2	2
15	UPPER END PLYWOOD SHEET	GND-AWS-D2	2

REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	Initial release	8/MAY/15	M.S

- NOTES
- ENSURE CONCRETE SURFACE IS SLIGHTLY DOMED SO NO WATER IS ACCUMULATED ON THE BASE.
 - EYE BOLT THREADS MUST BE CLEAN.
 - ALL VISIBLE PORTIONS OF THE CONCRETE FORM AND SCRAP MUST BE REMOVED FROM THE SITE.
 - JUNCTION BOX ORIENTATION DETERMINED BY SITE LAYOUT DRAWING GND-AWS-LA2.
 - CONCRETE MUST MEET REGIONAL STANDARDS AND CSA A23.1, CSA A23.3. CONCRETE COMPRESSIVE STRENGTH SHALL BE MIN 31MPa AT 28 DAYS. DONOT USE RAPID SETTING MIXTURES.
 - CONCRETE TO HAVE AIR ENTRAPMENT AND AIR CONTENT OF 4-9% AS PER ASTM C 457, FREEZE THAW RESISTANCE DURABILITY >90% AS PER ASTM C666.
 - SOIL AROUND FOOTING MUST BE COMPACTED AS PER REGIONAL STANDARDS.

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DESIGN: J. HOOVER / M. SINGH 11-JUN-2015

APPROVED: SORIN PINZARIU / P. LEJBJUK 11-JUN-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:

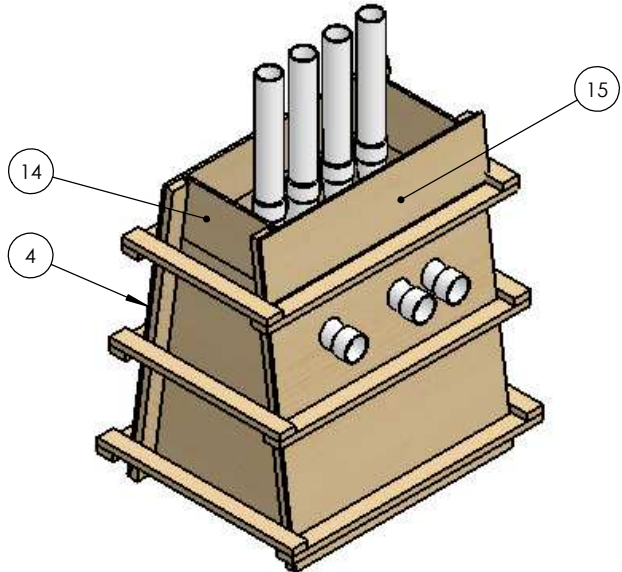
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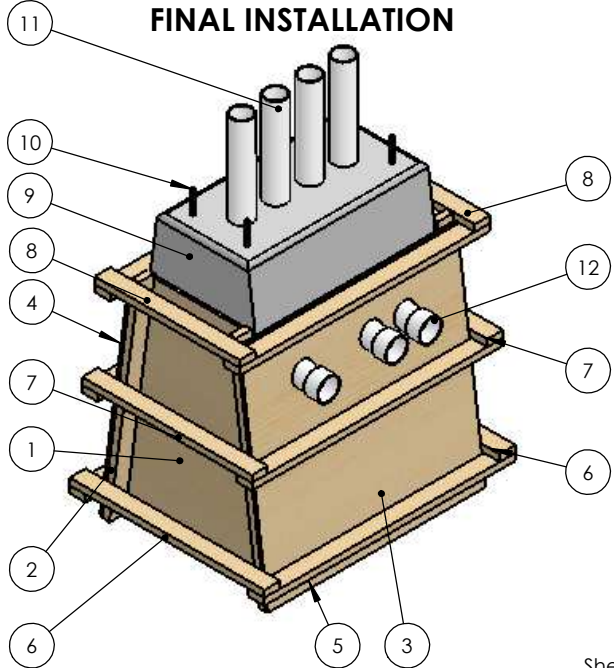
TITLE:
STANDARD JUNCTION BOX BASE

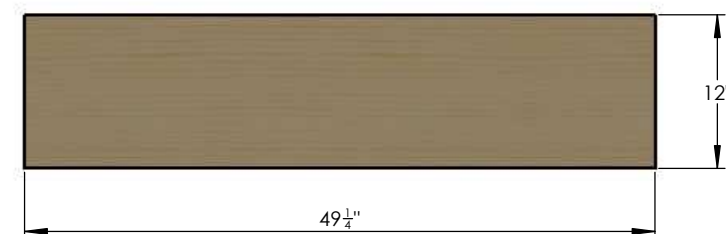
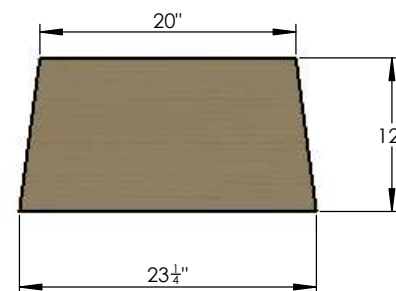
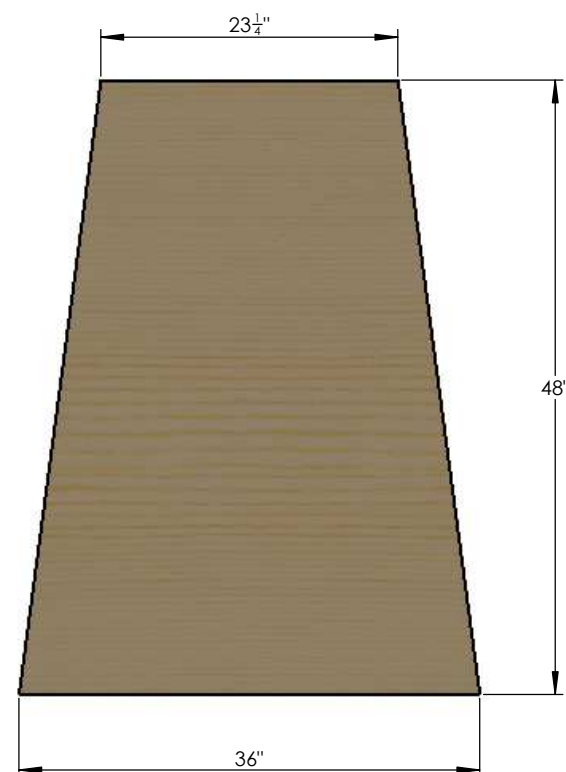
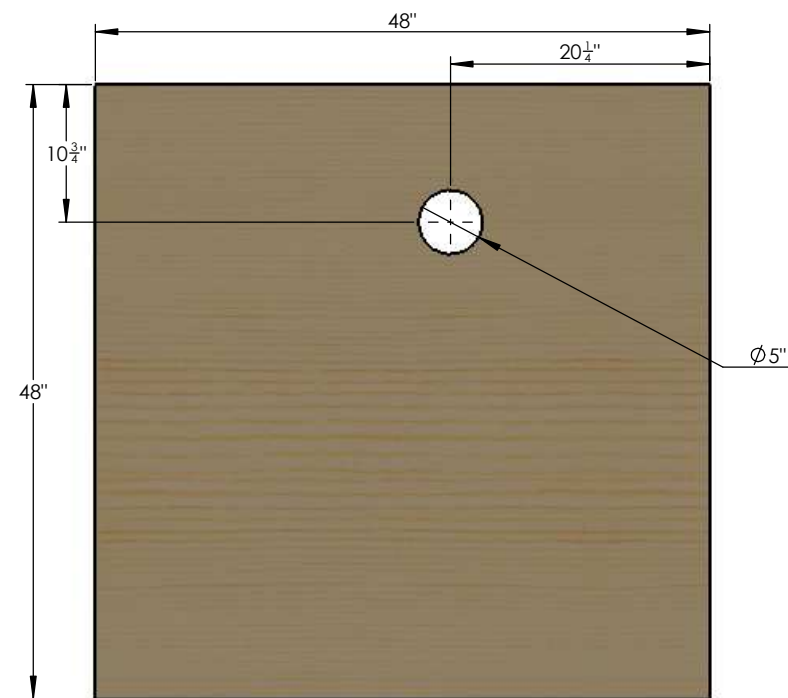
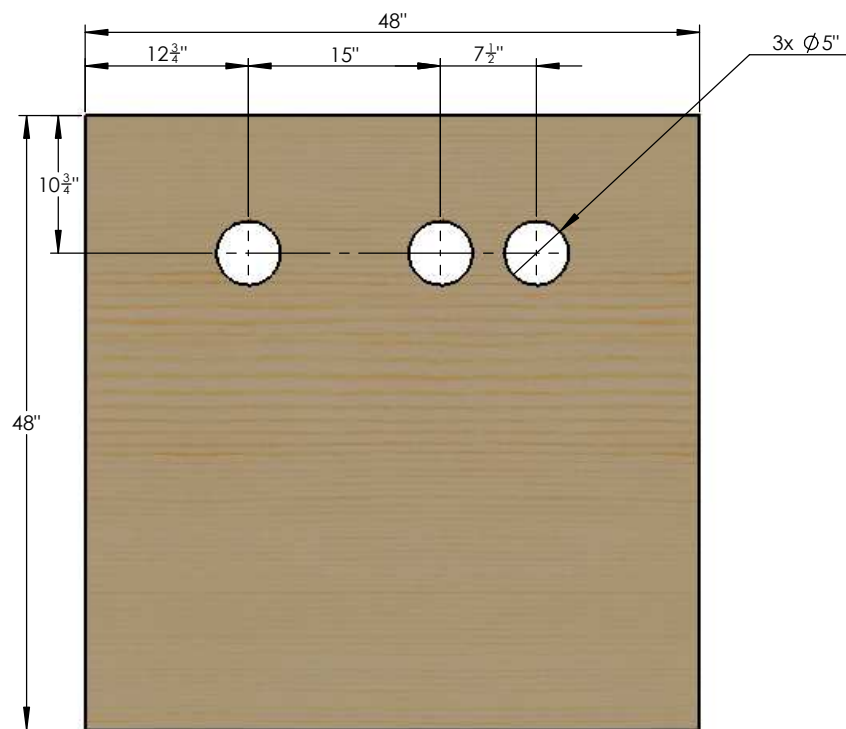
DRAWING NUMBER: GND-AWS-D1
REVISION: 01

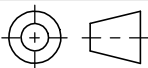

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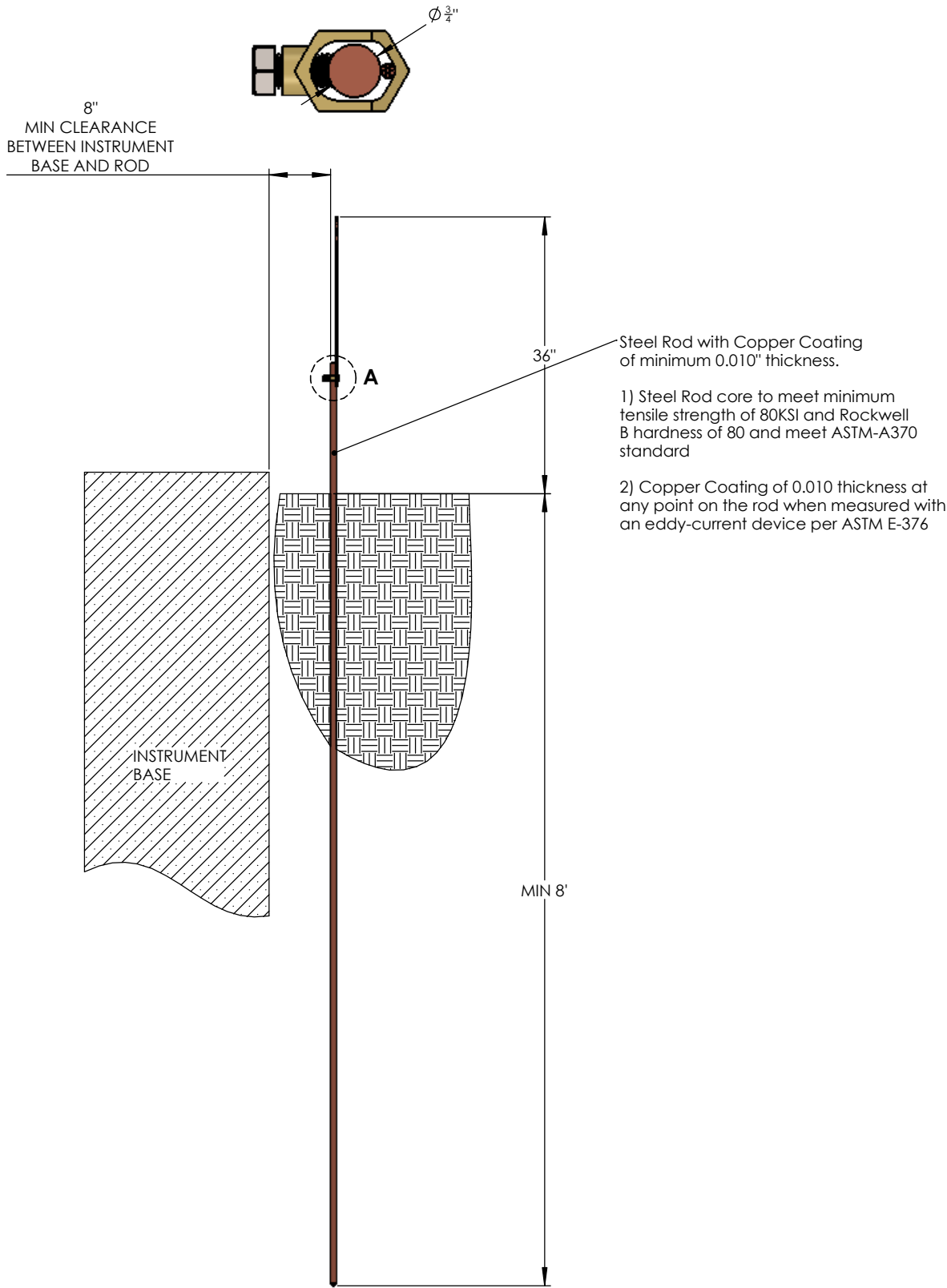


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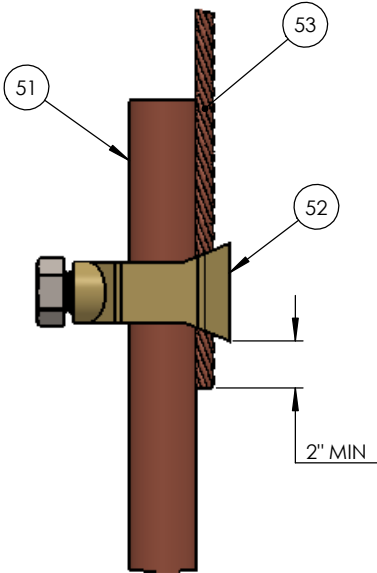




REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	Initial Release	08/MAY/15	M.S.
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DESIGN: J. HOOVER / M. SINGH		11-JUN-2015	
APPROVED: SORIN PINZARIU / P. LEJBKUK		11-JUN-2015	
MATERIAL: SEE INDIVIDUAL PARTS			
FINISH: N/A			
SPECIFICATION:			
		ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED	
		Environment Canada Environnement Canada	
Meteorological Service of Canada Service Météorologique du Canada			
TITLE: JUNCTION BOX FRAME COMPONENTS			
DRAWING NUMBER: GND-AWS-D2		REVISION: 01	



DETAIL A
GROUNDING CABLE
ATTACHMENT



ITEM	DESCRIPTION	MATERIAL	QUANTITY
51	GROUNDING ROD, 3/4" DIAMETER, 10' LENGTH, Steel Rod with Copper Coating	Copper Plated Steel Core	1
52	GROUNDING ROD CONNECTOR, THOMAS AND BETTS JAB34 OR EQUIVALENT	N/A	1
53	BARE COPPER WIRE, 6 AWG, 7 STRAND	COPPER	8' (2m)

REVISION HISTORY			
REV.	DESCRIPTION	DATE	INIT
01	INITIAL RELEASE	22/APR/15	MS

NOTES:

1. MINIMUM 8" GROUNDING ROD DEPTH BELOW GRADE.

2. GROUNDING CABLE MUST EXTEND MINIMUM 36" ABOVE INSTRUMENT MOUNTING BASE.

3. MINIMUM 8" CLEARANCE BETWEEN GROUNDING ROD ASSEMBLY AND FOOTINGS OR OTHER OBSTRUCTIONS.

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DESIGN: J. HOOVER / M. SINGH 11-JUN-2015

APPROVED: SORIN PINZARIU / P. LEJBKUK 11-JUN-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:

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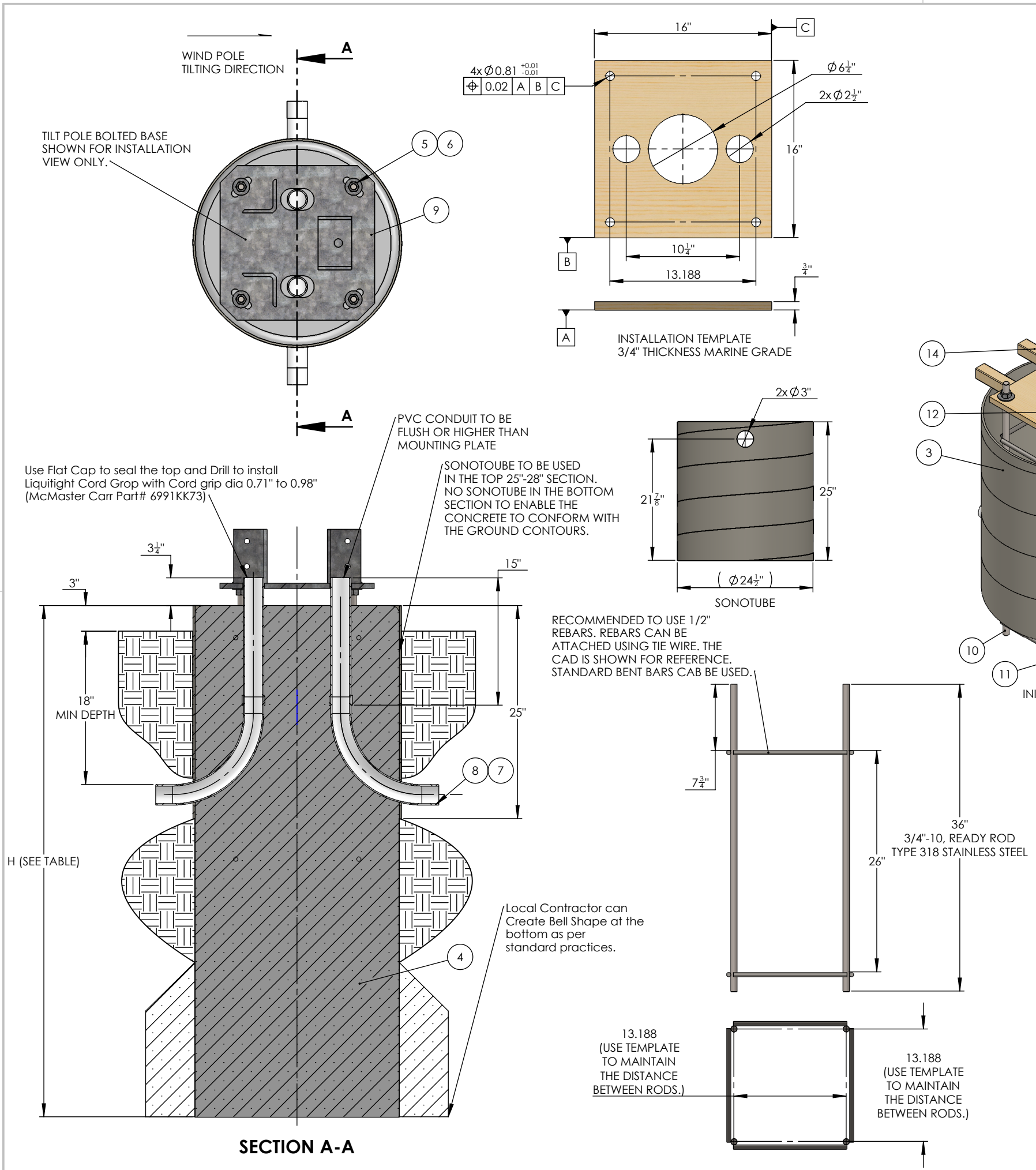
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TITLE: GROUNDING ROD ASSEMBLY

DRAWING NUMBER: GND-AWS-F1

REVISION: 01



ITEM NO.	DESCRIPTION	QTY.
3	SONOTUBE, 24\"	1
4	10M Wind Tower - Concrete Base	1
5	HEX NUT, 3/4\"	8
6	WASHER, 3/4\"	8
7	UPPER CONDUIT, Trade Size 2, McMaster Carr-7912K16	2
8	90 Degree Long Elbow, Trade Size 2, McMaster Carr-7945K46	2
9	TILTPOLE BOLTED BASE - Drawing B3011-43	1
10	3/4\"	4
11	Steel Rebar Dia 0.5\"	8
12	10M Wind Tower Base Template	1
14	Lumber 2\"	2

REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	13/JUL/15	M.S.
1. ENSURE CONCREATE SURFACE IS SLIGHTLY DOMES SO NO WATER IS ACCUMULATED ON THE BASE.			
2. EYEBOLT THREADS MUST BE CLEAN AND UNDAMAGED DURING INSTALALTION.			
3. SONOTUBE MATERIAL REMOVED UP-TO 12\"			
4. CONCRETE MUST MEET REGIONAL STANDARD AND SCA A23.1, SCA 23.3. CONCRETE COMPRESSIVE STRENGTH SHALL BE MIN 21 MPa AT 28 DAYS. DO NOT USE RAPID SETTING MIXTURES.			
5. CONCRETE TO HAVE AIR ENTRAPMENT AND AIR CONTENT OF 4-9% AS PER ASTM C 457, FREEZE THAW RESISTANCE DURABILITY >90% AS PER ASTM C666.			
6. SOIL AROUND FOOTING MUST BE COMPACTED AS PER REGIONAL STANDARDS.			
7. SEE SITE LAYOUT DRAWING GND-AWS-LA2 FOR BASE ORENTIALTION (CONDUIT EXIT).			
8. DESIGN APPLICABLE TO STANDARD SURFACE AUTOMATIC WEATHER STATION LAYOUT.			
9. REBAR CAGE REQUIRED AS DRAWN TO PROVIDE ADDED STRENGTH.			

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DESIGN: **J. HOOVER / M. SINGH** 13-JUL-2015


APPROVED: **SORIN PINZARIU / P. LEJBJUK** 13-JUL-2015

MATERIAL: **N/A**

FINISH: **N/A**

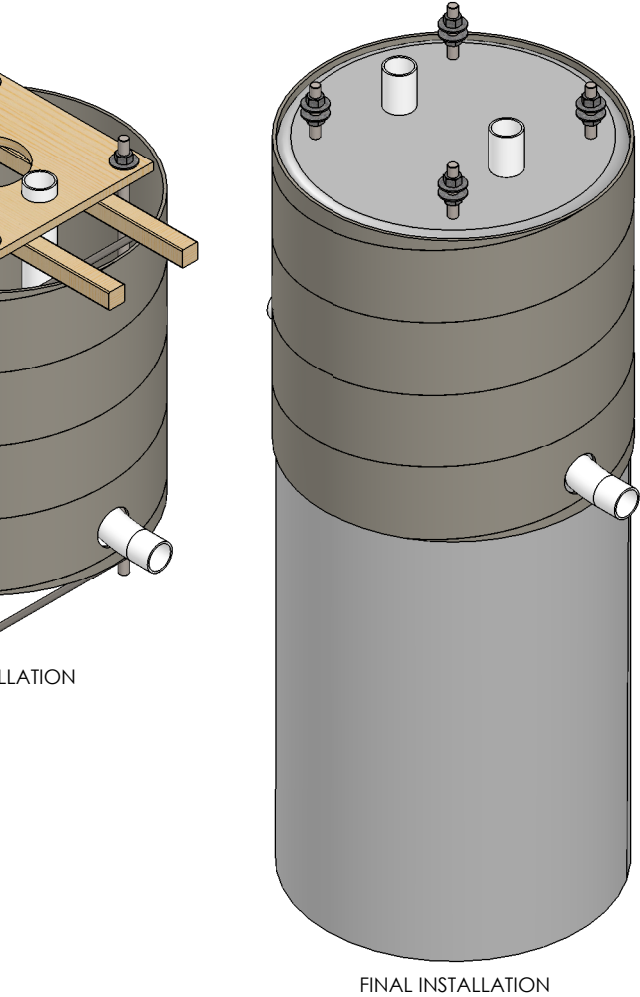
SPECIFICATION:

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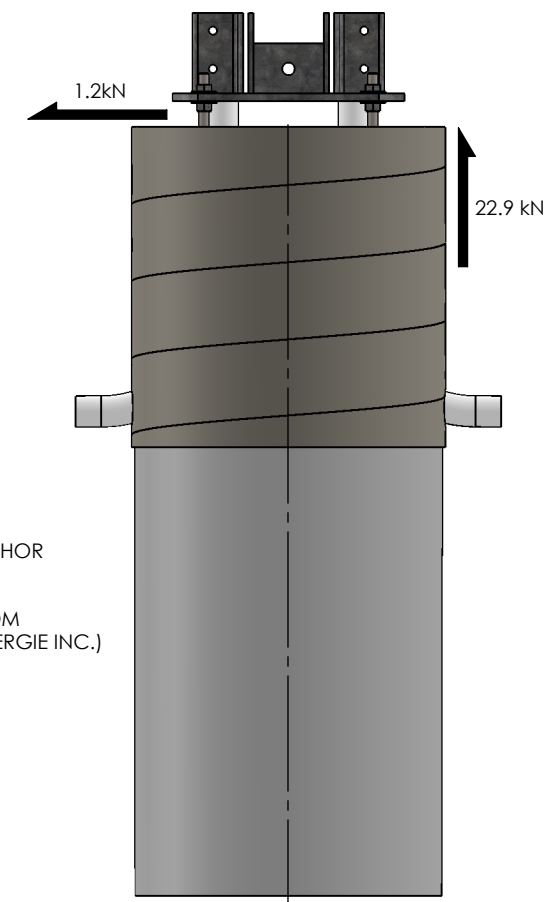
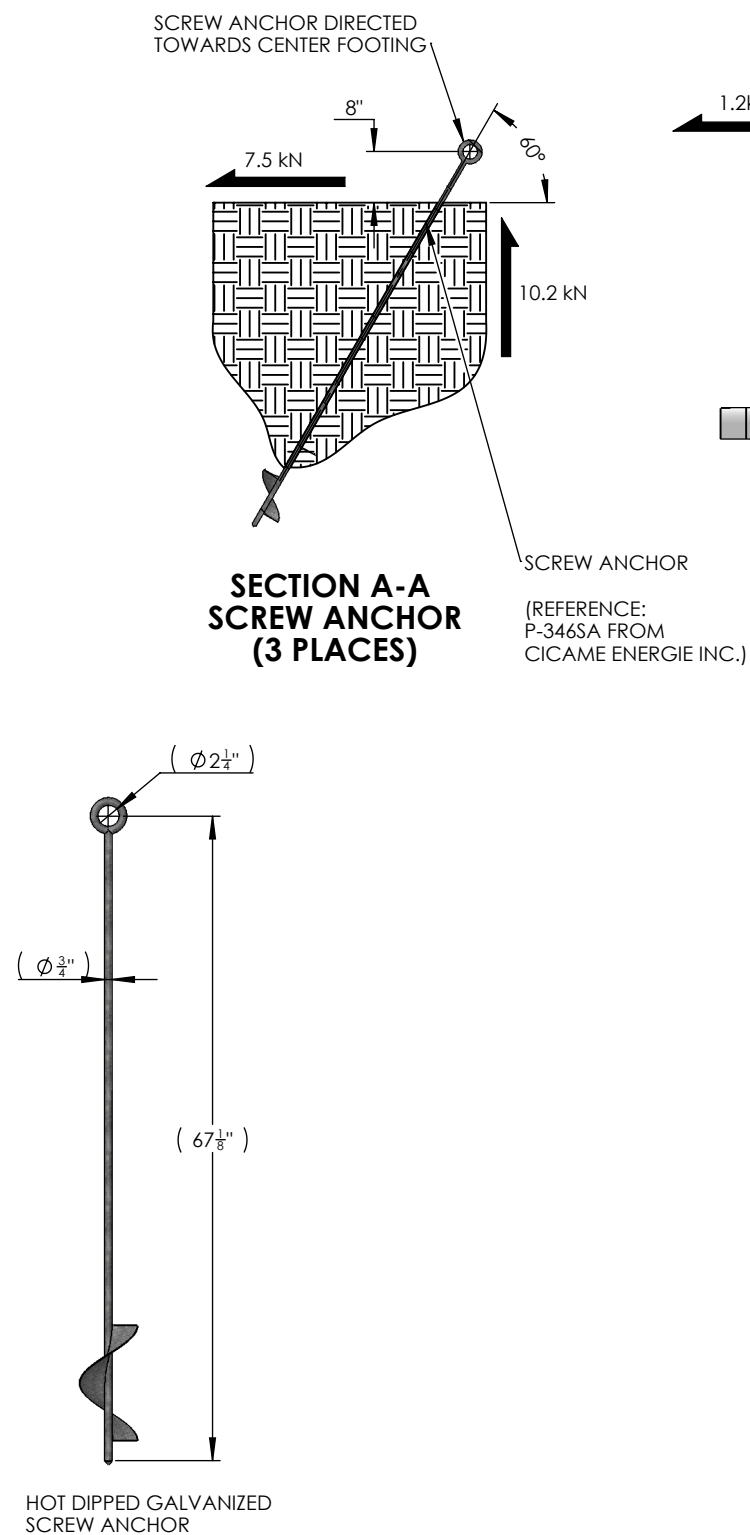
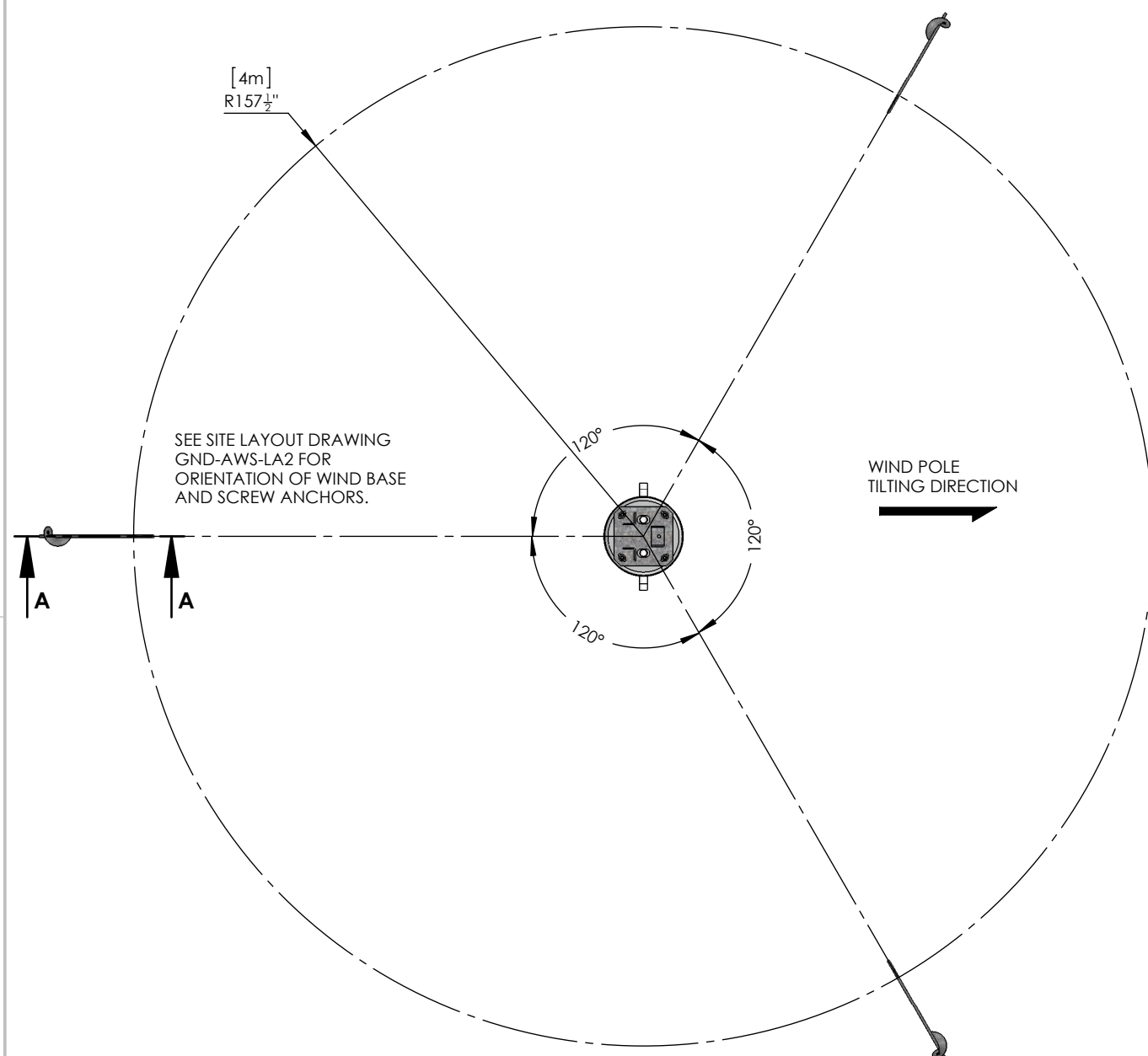
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TITLE:
STANDARD 10M WIND TOWER CONCRETE BASE

DRAWING NUMBER: **GND-AWS-B1** REVISION: **01**



CLASS OF SOIL	DEPTH 'H' (INCH)
GOOD - COMPACTED WELL GRADED SAND AND GRAVEL HARD CLAY WELL-GRADED FINE AND COARSE SAND (ALL DRAINED SO WATER WILL NOT STAND)	60
AVERAGE - COMPACT FINE SAND MEDIUM CLAY COMPACT SANDY LOAM LOOSE COARSE SAN AND GRAVEL (ALL DRAINED SO WATER WILL NOT STAND)	82
POOR- SOFT CLAY CLAY LOAM POORLY COMPACTED SAND CLAYS CONTAINING LARGE AMOUNTS OF SILT (WATER STANDS DURING WET SEASON)	118



REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	13/JUL/15	M.S.

1. BASE TO BE DESIGNED TO MEET REACTION FORCES AS SHOWN IN THIS DRAWING.
2. CONCRETE FOOTING FOR ANCHORS CAN BE DESIGNED THAT CAN MEET THE REACTION FORCES.

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ANGULAR: $\pm 2.0^\circ$

DESIGN:	J. HOOVER / M. SINGH	13-JUL-2015
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MATERIAL: N/A

FINISH:	N/A
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SPECIFICATION:

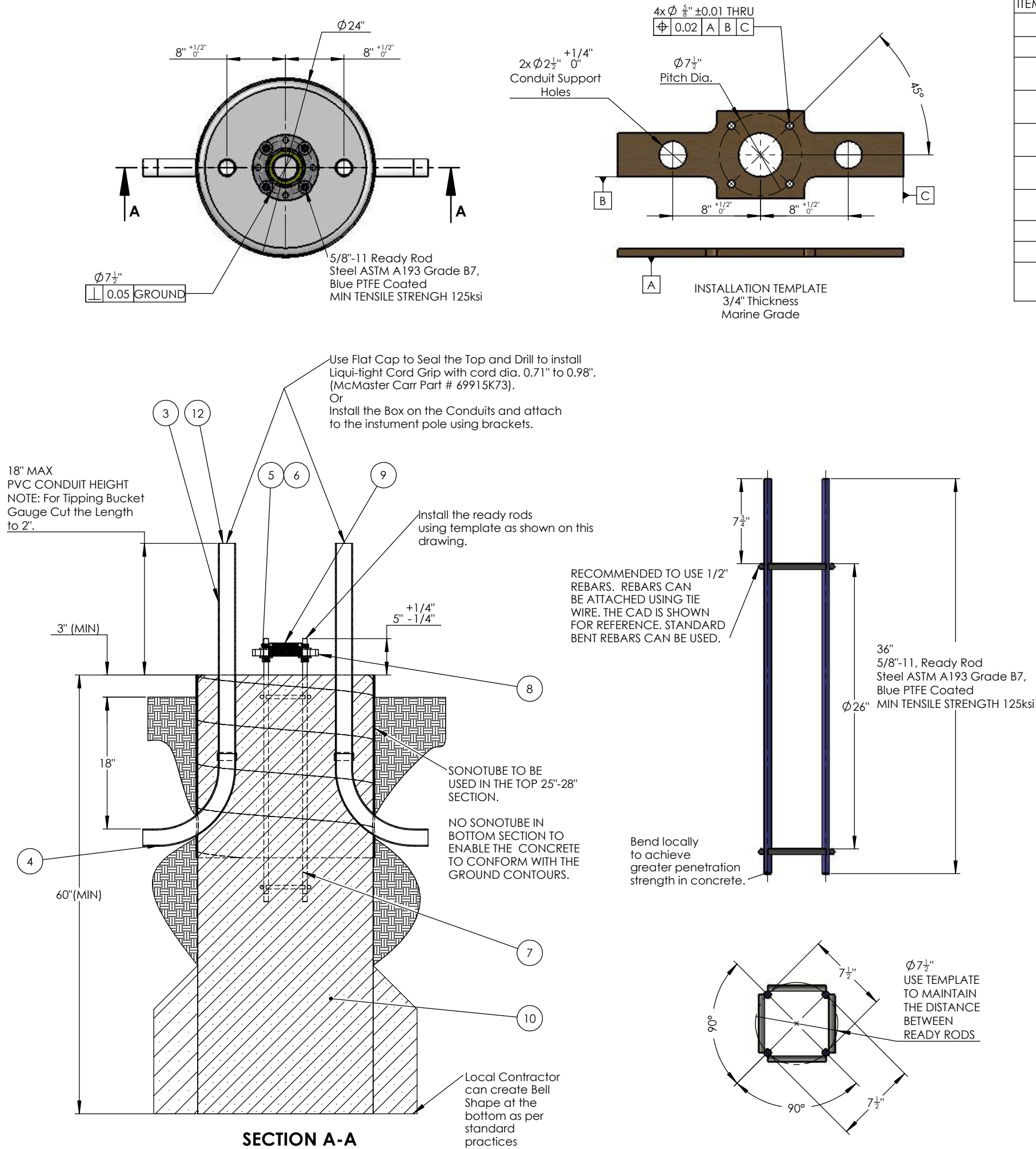


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Service Météorologique du Canada

TITLE: **STANDARD 10M WIND
TOWER CONCRETE BASE**

DRAWING NUMBER:	REVISION:
GND-AWS-B1	01



ITEM NO.	DESCRIPTION	QTY.
3	UPPER CONDUIT, Trade Size 2, McMaster Carr-7912K16	2
4	90 Degree Long Elbow, Trade Size 2, McMaster Carr-7945K46	2
5	5/8"-11 Grade 2 Steel, Hot-Dipped Galvanized Nut, McMaster Carr-90371A050	8
6	5/8"-11 OD 1.75" Hot-Dipped Galvanized Washer Washer, McMaster Carr-98970A135	8
7	5/8"-11, ASTM A193 Grade B7 Steel- PTFE Coated Stud, Min Tensile Strength 125ksi, 3' Length, McMaster Carr - 98752A537	4
8	Galvanized Steel Threaded Flange 4" Pipe x 9" OD, McMaster Carr-7551K128	1
9	4" NPT Male to 3" NPT Female, Galvanized Iron Zinc-Plated Hex Reducer- McMaster Carr - 4638K249	1
10	Precipitation Gauge - Concrete Base	1
11	Steel Rebar Dia 0.5" x 8.5"	8
12	Liquid-Tight Cord grip, for 0.71" - 0.98" Cord Diameter, 1-1/4 Trade Size. Mc Master Carr-69915K73	2

REVISION HISTORY:			
REV	DESCRIPTION	DATE	INIT.
01	Initial Release	28/APR/15	M.S.
NOTES:			
1. ENSURE CONCRETE SURFACE IS SLIGHTLY DOMED SO NO WATER IS ACCUMULATED ON THE BASE.			
2. READY ROD THREADS MUST BE CLEAN. PROTECT DURING INSTALLATION.			
3. SONOTUBE MATERIAL REMOVED UPTO 12" BELOW GRADE. ALL SCRAP MATERIAL REMOVED FROM SITE.			
4. ADDITIONAL REINFORCEMENT REBAR NOT REQUIRED IN CONCRETE FORMS.			
5. CONCRETE MUST MEET REGIONAL STANDARDS AND CSA A23.1, CSA A23.3. CONCRETE COMPRESSIVE STRENGTH SHALL BE MIN 31MPa AT 28 DAYS. DONOT USE RAPID SETTING MIXTURES.			
6. CONCRETE TO HAVE AIR ENTRAPMENT AND AIR CONTENT OF 4-9% AS PER ASTM C 457, FREEZE THAW RESISTANCE DURABILITY >90% AS PER ASTM C666.			
7. SOIL AROUND FOOTING MUST BE COMPACTED AS PER REGIONAL STANDARDS.			
8. SEE SITE LAYOUT DRAWING GND-AWS-LA2 FOR BASE ORIENTATION (CONDUIT EXIT).			
9. DESIGN APPLICABLE TO STANDARD SURFACE AUTOMATIC WEATHER STATION LAYOUT.			
DO NOT SCALE			
PROPRIETARY AND CONFIDENTIAL			
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF OSE. ANY REPRODUCTION OR MODIFICATION, IN PART OR AS A WHOLE, WITHOUT THE WRITTEN PERMISSION OF OSE IS STRICTLY PROHIBITED.			
TOLERANCES UNLESS OTHERWISE SPECIFIED:			
LINEAR: ±1"			
ANGULAR: ±2.0°			
DESIGN:		11-JUN-2015	
J. HOOVER / M. SINGH			
APPROVED:		11-JUN-2015	
SORIN PINZARIU / P. LEJBJUK			
MATERIAL:			
N/A			
FINISH:			
N/A			
SPECIFICATION:			
		ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED	
		Environment Canada Environnement Canada	
Meteorological Service of Canada Service Météorologique du Canada			
TITLE:			
STANDARD INSTRUMENT BASE			
DRAWING NUMBER:		REVISION:	
GND-AWS-A1		01	

JIG ON BASE SONOTUBES

Top View Dimensions:

- Overall Width: $33\frac{1}{2}" \pm \frac{1}{4}"$
- Overall Height: $33\frac{1}{2}" \pm \frac{1}{4}"$
- Central Circular Opening Diameter: $\phi 11\frac{3}{4}"$
- Inner Circular Opening Diameter: $\phi 3\frac{1}{2}"$ (4 PLACES)
- Inner Circular Opening Spacing: 6"
- Angles: 90°

Bottom View Dimensions:

- Rebar Frame Height Above Jig: $4" \pm \frac{1}{4}"$
- Rebar Frame Height Above Concrete: $6" \pm \frac{1}{4}"$
- Conduit Height Above Concrete: $19\frac{5}{16}"$
- Outer Base Thread Height Above Concrete: $2\frac{3}{4}" \pm \frac{1}{2}"$

ITEM	DESCRIPTION	MATERIAL	QUANTITY
1	RECTANGULAR TOP TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	2
2	RECTANGULAR CENTER TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	1
3	RECTANGULAR CENTER LOWER TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	1
4	RECTANGULAR MIDDLE TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	2
5	RECTANGULAR BOTTOM TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	4
6	HEX HEAD CAP SCREW, 1/2"-13, 2" LENGTH, MCMASTER-CARR 92186A720 OR EQUIVALENT	316 STAINLESS STEEL	8
7	HEX HEAD CAP SCREW, 1/2"-13, 2 3/4" LENGTH, MCMASTER-CARR 92186A723 OR EQUIVALENT.	316 STAINLESS STEEL	4
8	WASHER, 1/2" SAE, MCMASTER-CARR 91950A033 OR EQUIVALENT.	316 STAINLESS STEEL	56
9	HEX NUT, 1/2"-13, MCMASTER-CARR 94804A340 OR EQUIVALENT.	316 STAINLESS STEEL	44
10	THREADED ROD, 0.5-13, 18" LENGTH, MCMASTER-CARR 98804A118 OR EQUIVALENT.	18-8 STAINLESS STEEL	16
11	GEONOR MOUNTING REBAR FRAME. SEE DRAWING GND-SAS-C1 FOR DETAILS.	N/A	1
12	WASHER, 3/4" OD=2", Hot Dipped Galvanized Steel, McMaster Carr 98970A136	GALVANIZED STEEL	8
13	HEX NUT, 3/4"-10, Grade 2 Steel, Hot Dipped Galvanized, McMaster Carr-90371A055	GALVANIZED STEEL	8

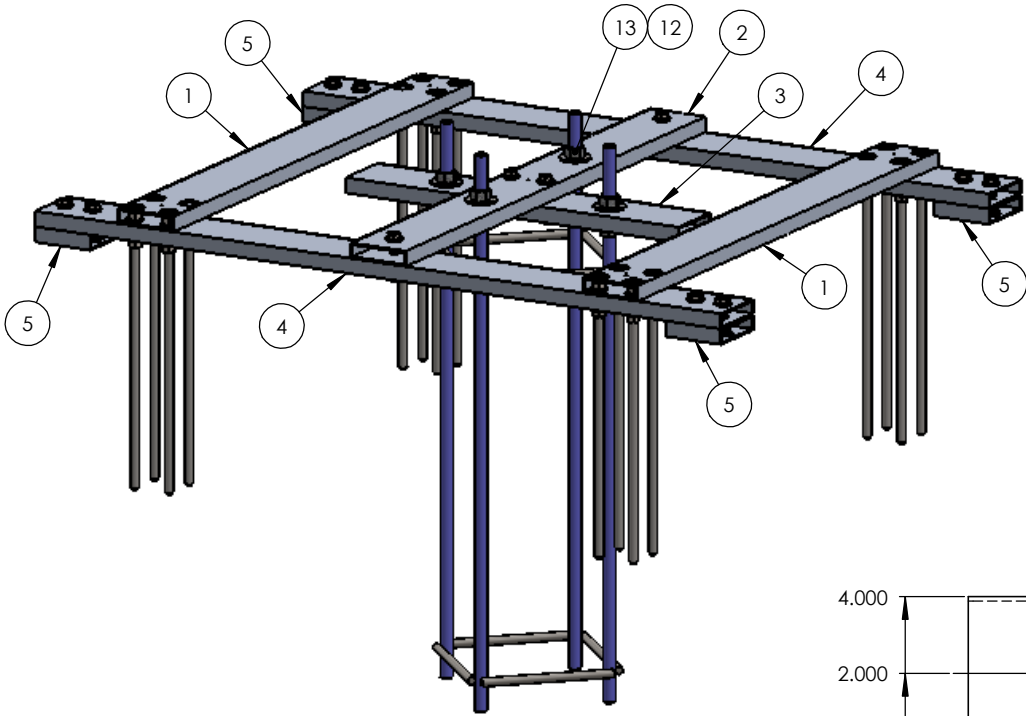
A 3D exploded view of a mechanical assembly. The assembly consists of a main frame made of blue L-shaped extrusions, with various components numbered 1 through 13. The components include: 1. Long horizontal blue extrusions forming the top rails. 2. Shorter horizontal blue extrusions forming the top cross-braces. 3. Vertical blue extrusions forming the main support legs. 4. Small black cylindrical spacers or bushings. 5. Black L-shaped brackets or end caps. 6. Small black cylindrical components, possibly pins or bushings. 7. Small black cylindrical components, possibly pins or bushings. 8. Small black cylindrical components, possibly pins or bushings. 9. Small black cylindrical components, possibly pins or bushings. 10. Thin vertical grey rods. 11. A horizontal grey rod at the base of the legs. 12. A small black cylindrical component. 13. A small black cylindrical component. The assembly is shown in an exploded state to illustrate the relationship between the parts.

SHEET 1 OF 2

REV	DESCRIPTION	DATE	INITIALS
A2	INITIAL PROTOTYPE	28/MAY/15	J.H.
A3	ADDED NOTES	10/JUNE/15	M.S.

DRAWING NUMBER: GND-DRJ-A01	REVISION: A3
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JIG ASSEMBLY

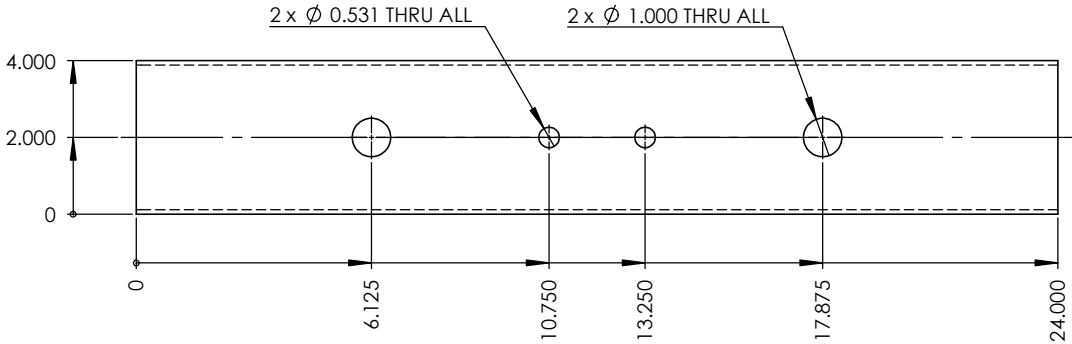


BILL OF MATERIALS

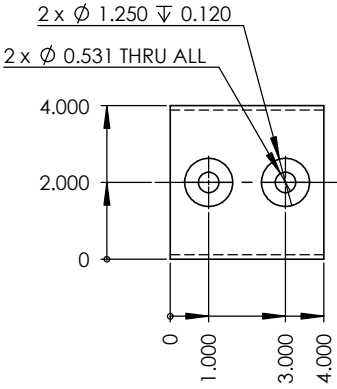
ITEM	DESCRIPTION	MATERIAL	QUANTITY
1	RECTANGULAR TOP TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	2
2	RECTANGULAR CENTER TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	1
3	RECTANGULAR CENTER LOWER TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	1
4	RECTANGULAR MIDDLE TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	2
5	RECTANGULAR BOTTOM TUBE, 4" X 1" X 0.12", DRAWING GND-DRJ-A02	6063-T5 ALUMINUM	4
12	WASHER, 3/4" OD=2", Hot Dipped Galvanized Steel, McMaster Carr 98970A136		8
13	HEX NUT, 3/4"-10, Grade 2 Steel, Hot Dipped Galvanized, McMaster Carr-90371A055	GALVANIZED STEEL	8

REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
A2	INITIAL PROTOTYPE	28/MAY/15	J.H.
NOTES:			
1. SEE BILL OF MATERIALS FOR PART QUANTITIES.			
2. BREAK ALL SHARP EDGES TO A MINIMUM R0.005".			

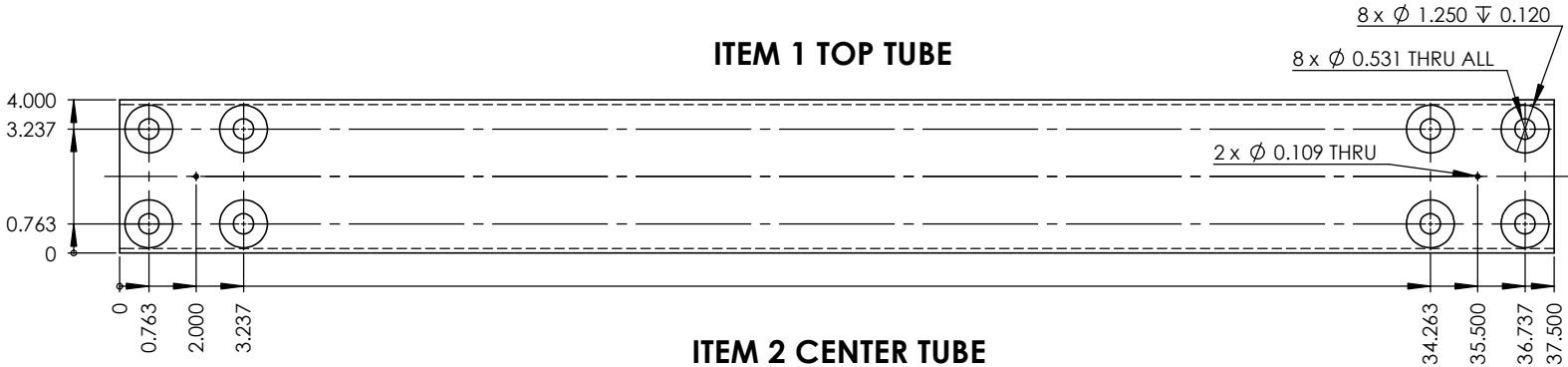
ITEM 3 CENTER LOWER TUBE



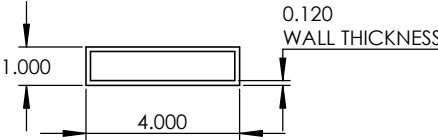
ITEM 5 BOTTOM TUBE



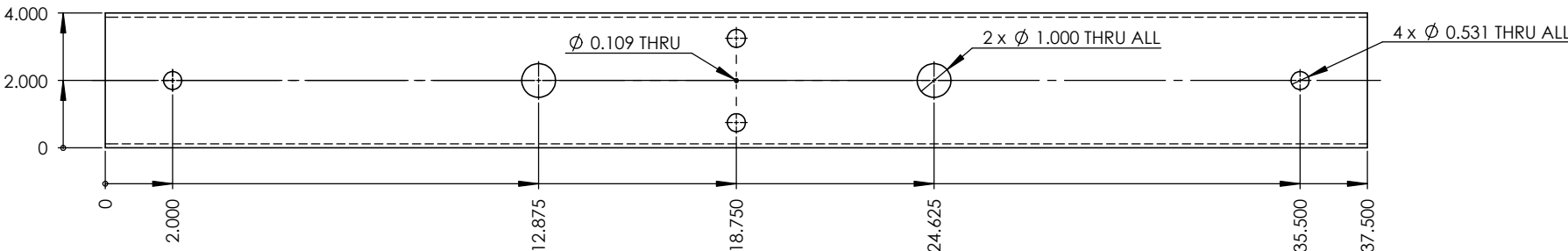
ITEM 1 TOP TUBE



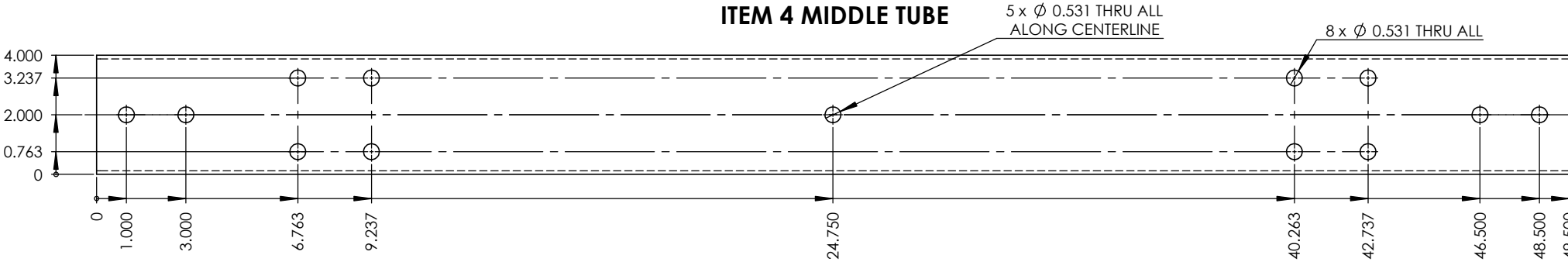
RECTANGULAR TUBE CROSS SECTION ITEMS 1 TO 5



ITEM 2 CENTER TUBE



ITEM 4 MIDDLE TUBE



BOM OF HDPE SNOW DEPTH TARGET

DESCRIPTION	MATERIAL	DRAWING	QUANTITY
PEA GRAVEL	PEA GRAVEL	N/A	8 FT ³ MIN
DOCK IN A BOX DW4GV DECKWAVE DECKING, GREY WITH HOLES	COPOLYMER POLYPROPYLENE	GND-SDT-B04	2
UPPER END BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B05	2
UPPER SIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B06	2
UPPER INSIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B07	2
UPPER MIDDLE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B08	2
LOWER END BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B09	2
LOWER SIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B10	2
LOWER INSIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B11	2
LOWER CENTER BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B12	2
CORNER BRACE	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B13	8
HANDLE COVER PLATE	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B14	2
HANDLE INSERT BLOCK	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B15	2
PAN HEAD SELF-TAPPING PLASTIC SCREW #10 1 3/4" LENGTH	316 STAINLESS STEEL	N/A	12
PAN HEAD SELF-TAPPING PLASTIC SCREW #10 3" LENGTH	316 STAINLESS STEEL	N/A	8
82 DEG FLAT HEAD SELF-TAPPING PLASTIC SCREW #8 X 1 1/2" LENGTH	316 STAINLESS STEEL	N/A	106
82 DEG FLAT HEAD SELF-TAPPING PLASTIC SCREW #8 5/8" LENGTH	316 STAINLESS STEEL	N/A	8
FLAT WASHER #10 SAE	316 STAINLESS STEEL	N/A	12
LANDSCAPE FABRIC, 4' ROLL, 20' LENGTH	LANDSCAPE FABRIC, 4' ROLL	N/A	1
STAPLES	STAINLESS STEEL	N/A	10

REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

DO NOT SCALE

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TOLERANCES UNLESS OTHERWISE SPECIFIED

LINEAR: ±0.030 "
ANGULAR: ±1.0 °

DESIGN:

JEFFERY HOOVER

18-FEB-2015

APPROVED:

SORIN PINZARIU

18-FEB-2015

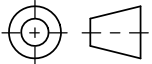
MATERIAL:

N/A


FINISH:

N/A

SPECIFICATION:



ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE
INDICATED

 Environment Canada Environnement Canada

Meteorological Service of Canada
Service Météorologique du Canada

TITLE:

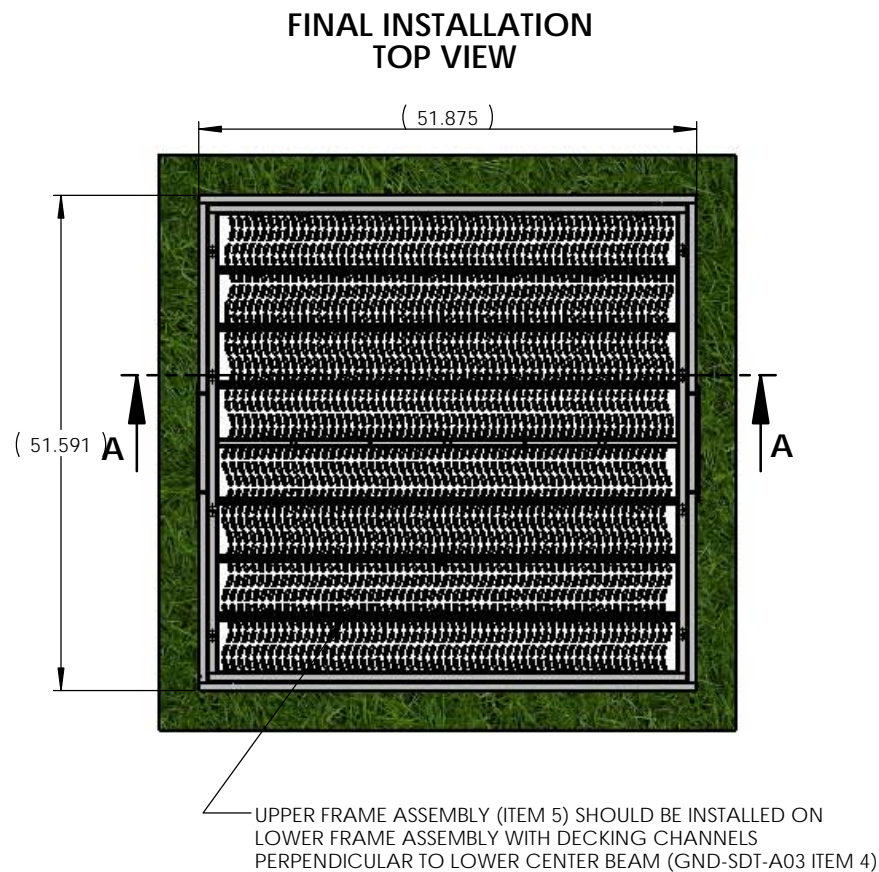
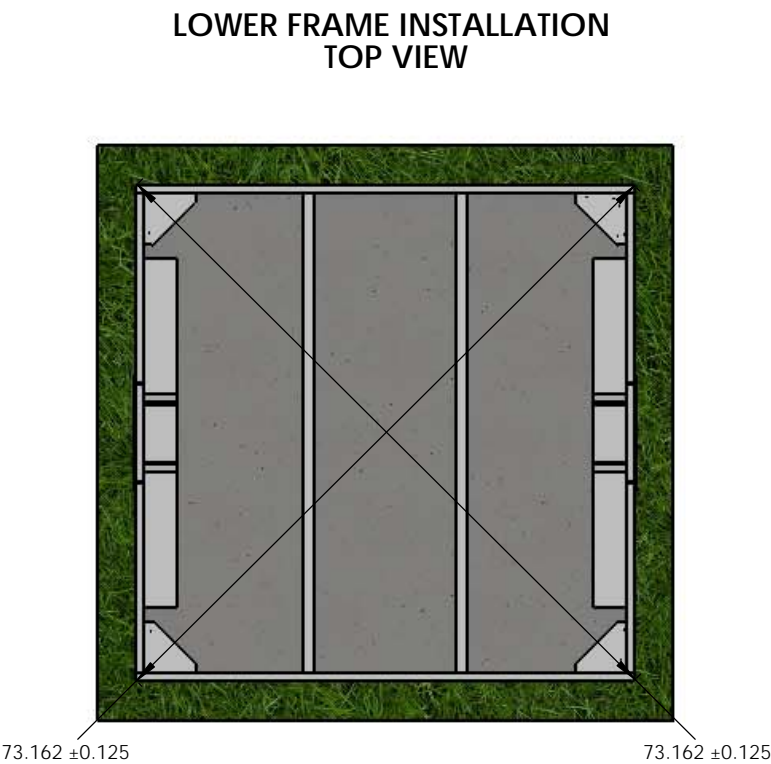
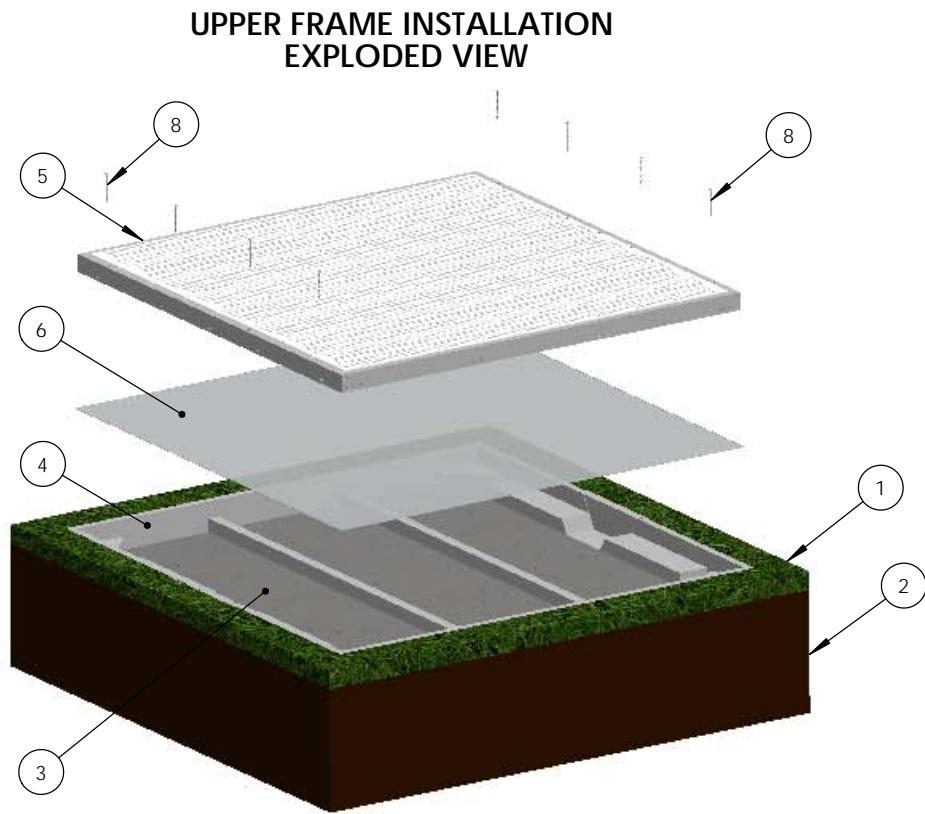
SNOW DEPTH TARGET
WITH HDPE FRAME

DRAWING NUMBER:

GND-SDT-B00

REVISION:

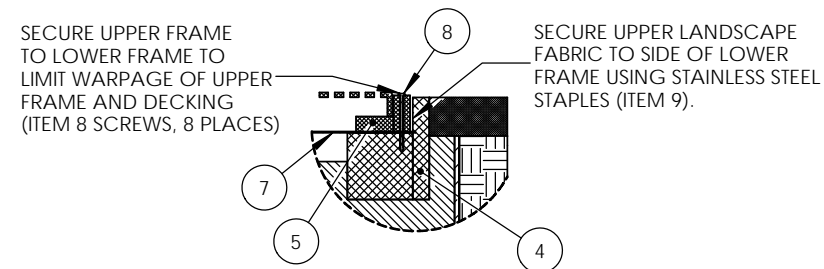
01



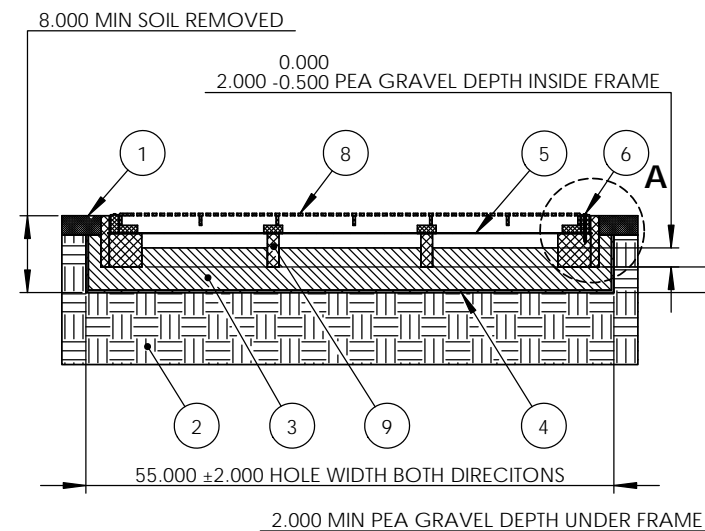
BILL OF MATERIALS

ITEM	DESCRIPTION	DRAWING	QUANTITY
1	GRASS	N/A	N/A
2	EARTH	N/A	N/A
3	PEA GRAVEL	N/A	8 FT ³ MIN
4	LOWER LANDSCAPE FABRIC, 4' ROLL	N/A	1
5	UPPER LANDSCAPE FABRIC, 4' ROLL	N/A	1
6	PAN HEAD SELF-TAPPING PLASTIC SCREW #10 3" LENGTH	N/A	8
7	STAPLES STAINLESS STEEL (UPPER LANDSCAPE FABRIC)	N/A	10
8	UPPER FRAME ASSEMBLY	GND-SDT-B02	1
9	LOWER FRAME ASSEMBLY	GND-SDT-B03	1
10			1

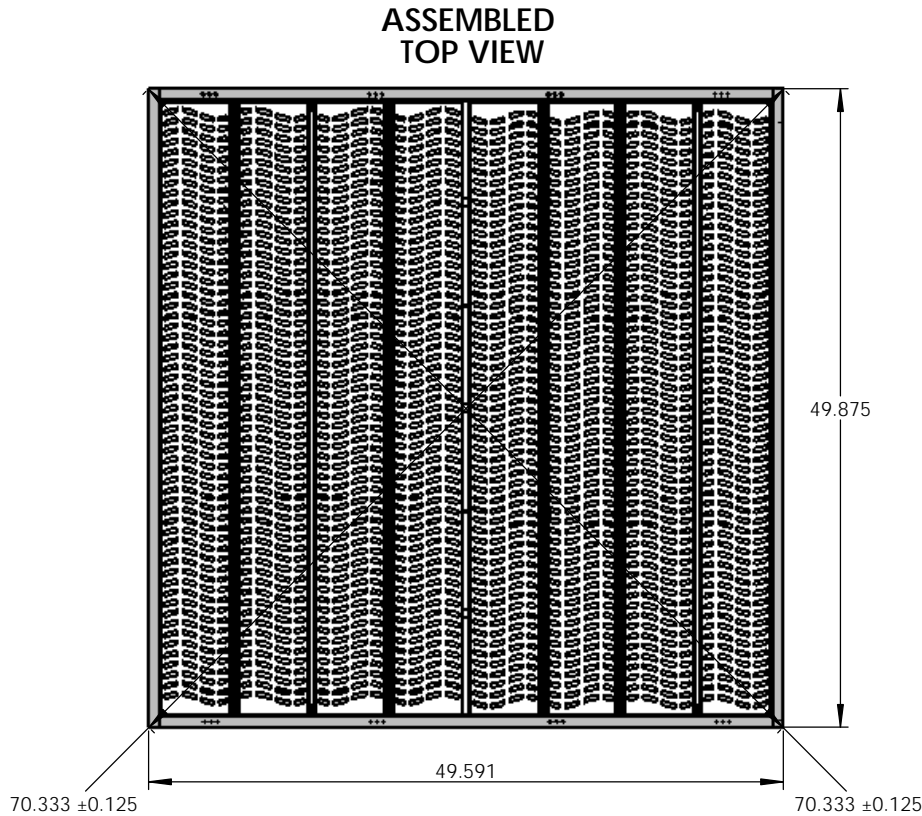
DETAIL A UPPER FRAME AND LANDSCAPE FABRIC DETAIL



SECTION A-A GROUND INSTALLATION



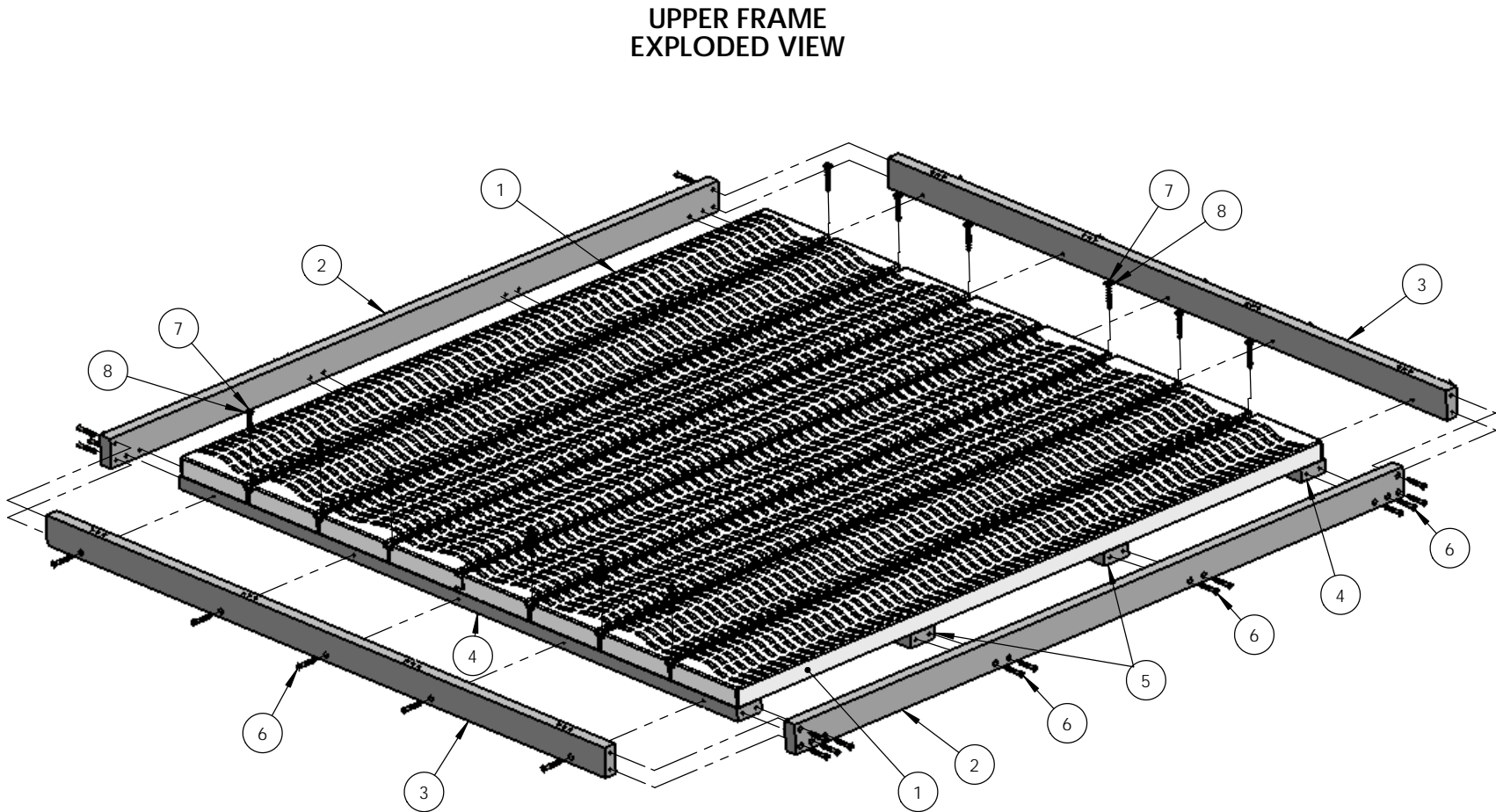
REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.
NOTES:			
1. CHECK FRAME IS SQUARE WITHIN 1/4" AND ENSURE UPPER FRAME ASSEMBLY WILL INSTALL INSIDE LOWER FRAME ASSEMBLY.			
2. PREPARE SOIL FOR SNOW DEPTH TARGET. REMOVE SOIL MIN 8" BELOW GRADE PER REGIONAL STANDARDS. COVER BOTTOM OF HOLE WITH LANDSCAPE FABRIC. FILL WITH MIN 2" PEA GRAVEL AS PER SECTION A-A GROUND INSTALLATION.			
3. ALIGN AND LEVEL LOWER FRAME ASSEMBLY (ITEM 6) SO THAT IT IS FLUSH WITH HIGHEST CORNER OF GRADE AND CENTERED BELOW SNOW DEPTH SENSOR. ADD 2" PEA GRAVEL INSIDE FRAME PER SECTION A-A.			
4. ADD LANDSCAPE FABRIC ACROSS LOWER ASSEMBLY FRAME (ITEM 6) TO CATCH DEBRIS THAT FALLS THROUGH DECKING HOLES. ENSURE FABRIC LENGTH IS SUFFICIENT TO TOUCH PEA GRAVEL IN BETWEEN LOWER FRAME ASSEMBLY BEAMS. SEE SECTION A-A FOR FURTHER DETAILS.			
5. INSTALL UPPER FRAME ASSEMBLY IN LOWER FRAME ASSEMBLY. THE UPPER MIDDLE BEAM (GND-SDT-A02 ITEM 5) IS PARALLEL TO THE LOWER CENTER BEAM (GND-SDT-A03 ITEM 4).			
6. FIX THE UPPER FRAME (ITEM 5) TO THE LOWER FRAME (ITEM 4) USING ITEM 8 SCREWS.			
7. TO REMOVE THE UPPER FRAME THE HANDLE INSERT BLOCKS (GND-SDT-A03 ITEM 7) CAN BE REMOVED TO PROVIDE ACCESS TO LIFT OUT THE UPPER FRAME ASSEMBLY.			
DO NOT SCALE			
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF OSE. ANY REPRODUCTION OR MODIFICATION, IN PART OR AS A WHOLE, WITHOUT THE WRITTEN PERMISSION OF OSE IS STRICTLY PROHIBITED.			
TOLERANCES UNLESS OTHERWISE SPECIFIED LINEAR: ±0.030 " ANGULAR: ±1.0 °			
DESIGN:		JEFFERY HOOVER	18-FEB-2015
APPROVED:		SORIN PINZARIU	18-FEB-2015
MATERIAL: N/A			
FINISH: N/A			
SPECIFICATION:			
		ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED	
Environment Canada Environnement Canada Meteorological Service of Canada Service Météorologique du Canada			
TITLE: SNOW DEPTH TARGET FRAME INSTALLATION			
DRAWING NUMBER: GND-SDT-B01			REVISION: 01



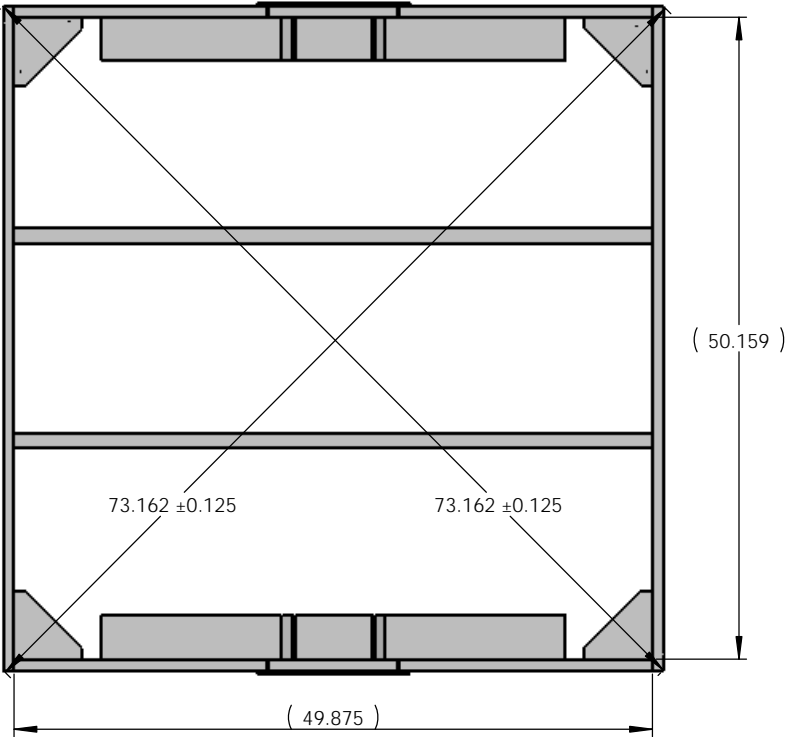
BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	DRAWING	QUANTITY
1	DOCK IN A BOX DW4GV DECKWAVE DECKING, GREY WITH HOLES	COPOLYMER POLYPROPYLENE	GND-SDT-B04	2
2	UPPER END BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B05	2
3	UPPER SIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B06	2
4	UPPER INSIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B07	2
5	UPPER MIDDLE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B08	2
6	82 DEG FLAT HEAD SELF-TAPPING PLASTIC SCREW #8 X 1 1/2" LENGTH	316 STAINLESS STEEL	N/A	34
7	PAN HEAD SELF-TAPPING PLASTIC SCREW #10 1 3/4" LENGTH	316 STAINLESS STEEL	N/A	12
8	FLAT WASHER #10 SAE	316 STAINLESS STEEL	N/A	12

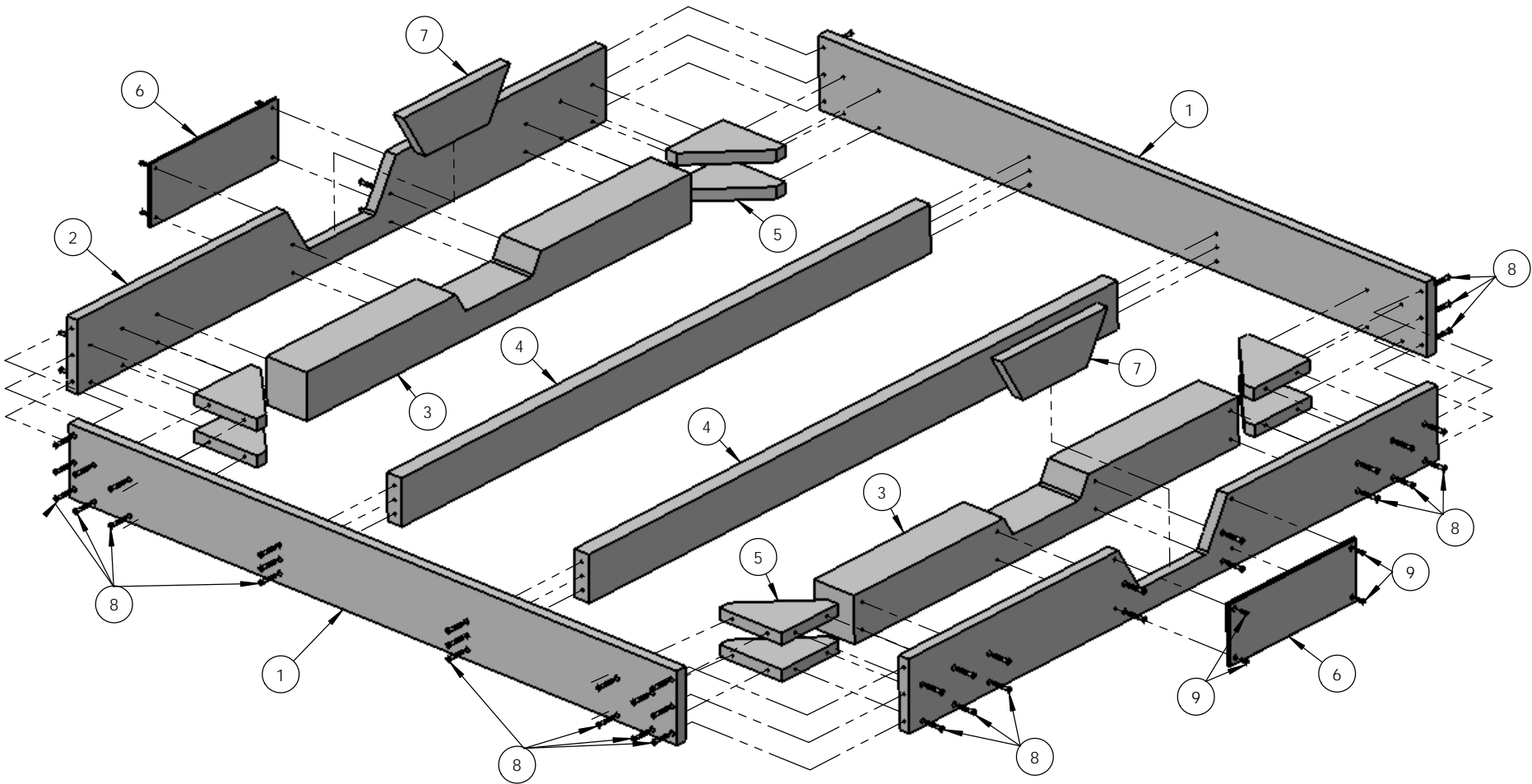
REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.
NOTES: 1. ASSEMBLE FRAME USING USING ITEM 6 SCREWS. DO NOT OVERTORQUE SCREWS. 2. CHECK FRAME IS SQUARE WITHIN 1/4" BY MEASURING CORNER TO CORNER DISTANCE AFTER ASSEMBLY. 3. ASSEMBLE DECKING ON FRAME USING ITEM 7 SCREWS. DO NOT OVERTORQUE SCREWS.			



ASSEMBLED
TOP VIEW



LOWER FRAME
EXPLODED VIEW



BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	DRAWING	QUANTITY
1	LOWER END BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B09	2
2	LOWER SIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B10	2
3	LOWER INSIDE BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B11	2
4	LOWER CENTER BEAM	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B12	2
5	CORNER BRACE	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B13	8
6	HANDLE COVER PLATE	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B14	2
7	HANDLE INSERT BLOCK	C.R. PLASTICS WHITE RECYCLED PLASTIC LUMBER WITH U.V. STABILIZER.	GND-SDT-B15	2
8	82 DEG FLAT HEAD SELF-TAPPING PLASTIC SCREW #8 X 1 1/2" LENGTH	316 STAINLESS STEEL	N/A	72
9	82 DEG FLAT HEAD SELF-TAPPING PLASTIC SCREW #8 5/8" LENGTH	316 STAINLESS STEEL	N/A	8

REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. ASSEMBLE FRAME PARTS (ITEMS 1 TO 5) USING USING ITEM 8 SCREWS. DO NOT OVERTORQUE SCREWS.
2. ASSEMBLE HANDLE COVER PLATE (ITEM 6) ON LOWER SIDE BEAM (ITEM 2) USING ITEM 9 SCREWS.
3. PLACE HANDLE INSERT BLOCK (ITEM 7) IN ITEM 2 LOWER SIDE BEAM SLOT.
4. CHECK FRAME IS SQUARE WITHIN 1/4" BY MEASURING CORNER TO CORNER DISTANCE AFTER INSTALLATION IN TARGET LOCATION.

DO NOT SCALE

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TOLERANCES UNLESS OTHERWISE SPECIFIED
LINEAR: ± 0.030 "
ANGULAR: $\pm 1.0^\circ$

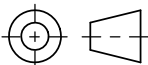
DESIGN: JEFFERY HOOVER 18-FEB-2015

APPROVED: SORIN PINZARIU 18-FEB-2015

MATERIAL: N/A

FINISH: N/A

SPECIFICATION:



ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE
INDICATED



Environment Canada
Environnement Canada

Meteorological Service of Canada
Service Météorologique du Canada

TITLE: LOWER FRAME
ASSEMBLY

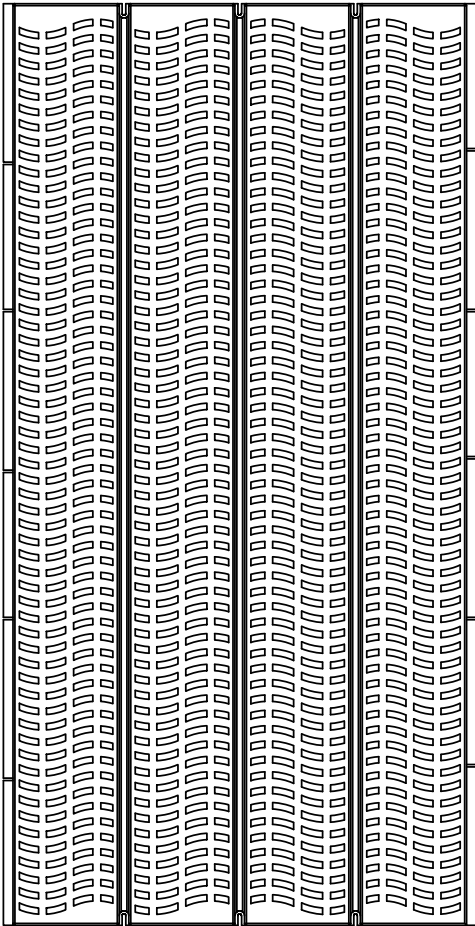
DRAWING NUMBER:
GND-SDT-B03

REVISION:
01



DECKWAVE DECKING BEFORE EDGE CUT

TOP VIEW

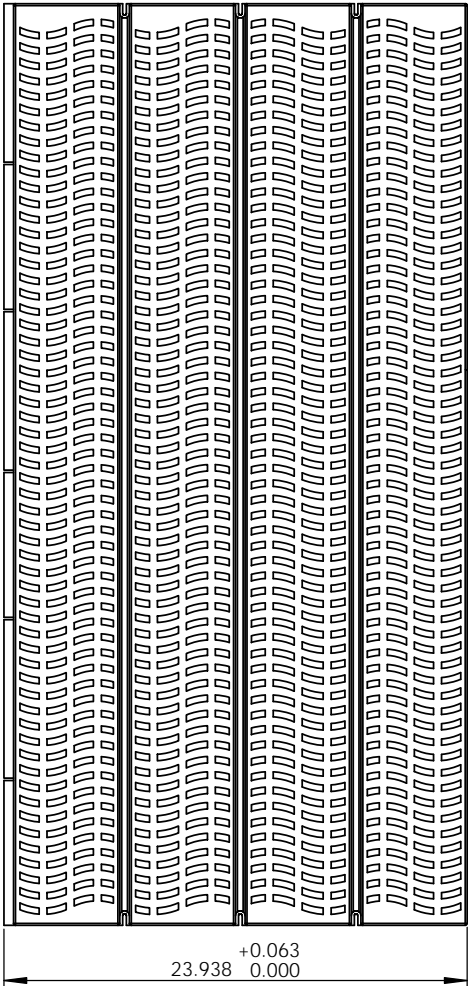


SIDE VIEW



DECKWAVE DECKING AFTER EDGE CUT

TOP VIEW



SIDE VIEW



CUT ALONG ONE SIDE OF DECKING
TO REMOVE JOINING FEATURE.
DO NOT CUT INTO DECKING SIDEWALL.

REVISION HISTORY:

REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

NOTES:

1. DOCK IN A BOX DW4GV DECKWAVE DECKING GREY WITH HOLES.

2. CUT ALONG ONE SIDE OF DECKING TO REMOVE JOINING FEATURE. DO NOT CUT INTO DECKING SIDEWALL.

3. BOTH DECKING PANELS IN TARGET FRAME REQUIRE ONE SIDE OF DECKING TO BE CUT (SEE NOTE 2 FOR CUT DETAILS).

DO NOT SCALE

PROPRIETARY AND CONFIDENTIAL
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TOLERANCES UNLESS OTHERWISE SPECIFIED
LINEAR: ±0.030 "
ANGULAR: ±1.0 °

DESIGN:	JEFFERY HOOVER	18-FEB-2015
APPROVED:	SORIN PINZARIU	18-FEB-2015
MATERIAL:	COPOLYMER POLYPROPYLENE	
FINISH:	AS SUPPLIED	
SPECIFICATION:		

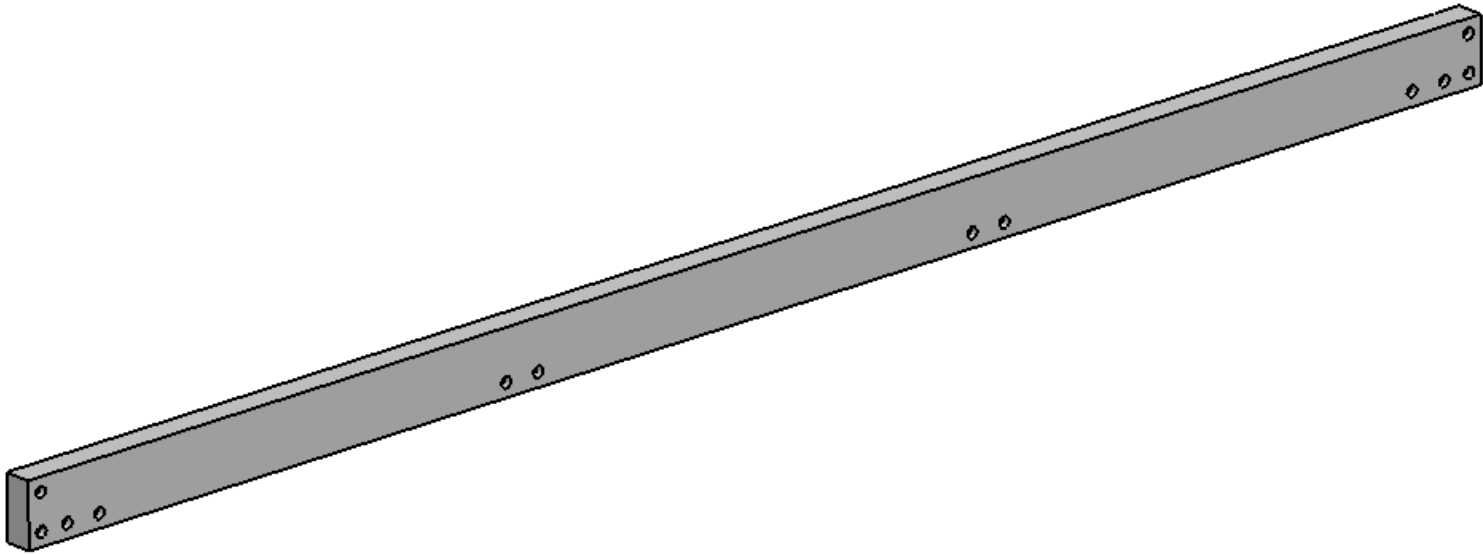
ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE
INDICATED

Environment Canada
Environnement Canada
Meteorological Service of Canada
Service Météorologique du Canada

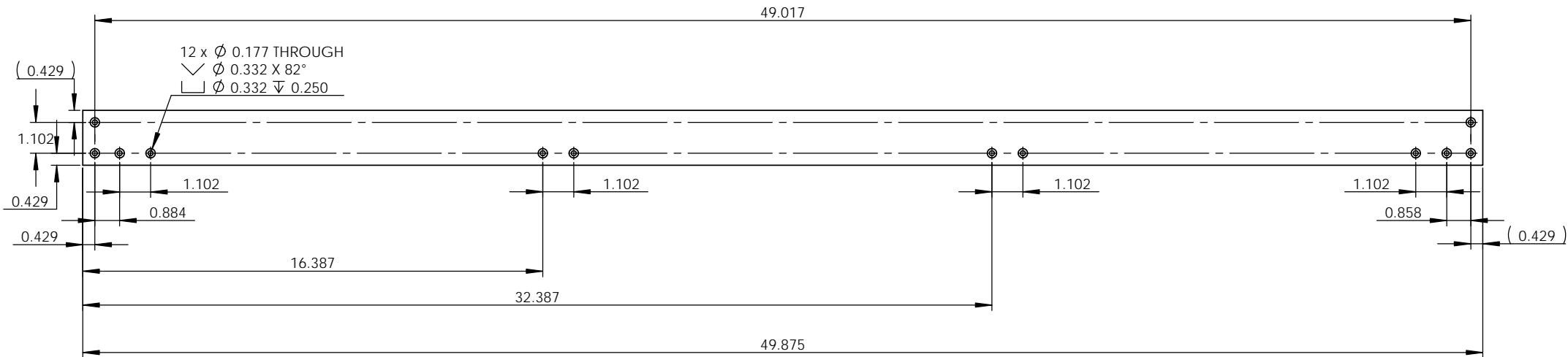
TITLE:

DOCK IN A BOX
DECKWAVE DECKING

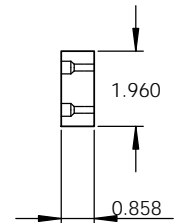
DRAWING NUMBER:	REVISION:
GND-SDT-B04	01



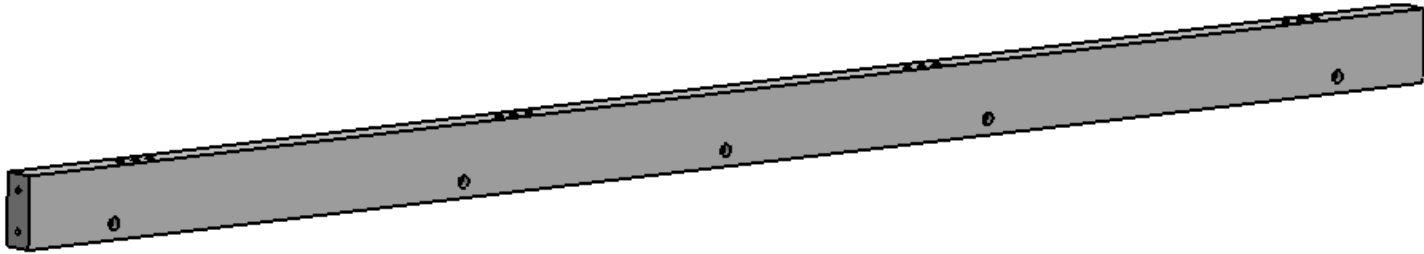
FRONT VIEW



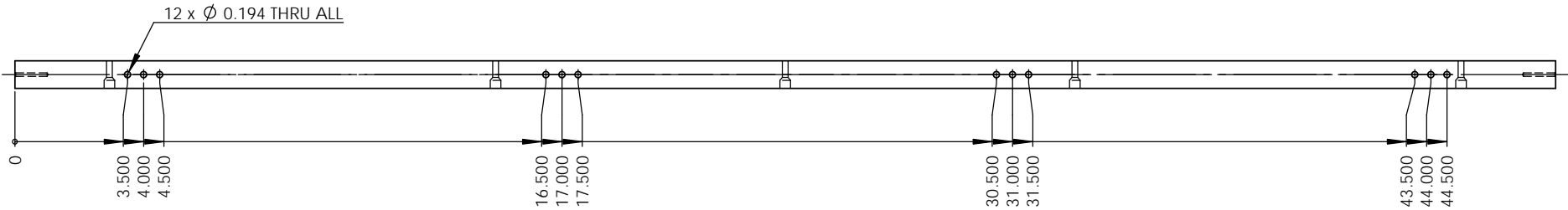
SIDE VIEW



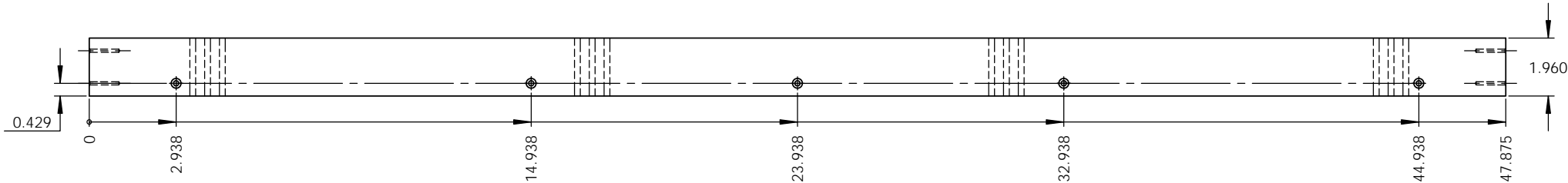
REVISION HISTORY:			
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4. BREAK ALL CUT EDGES WITH A 0.062" X 45° CHAMFER ALL AROUND.			



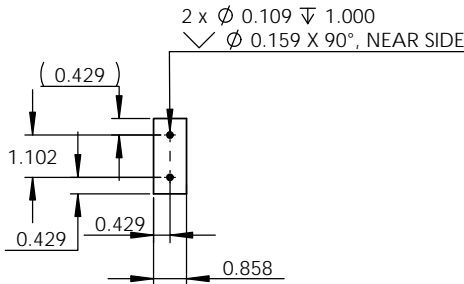
TOP VIEW



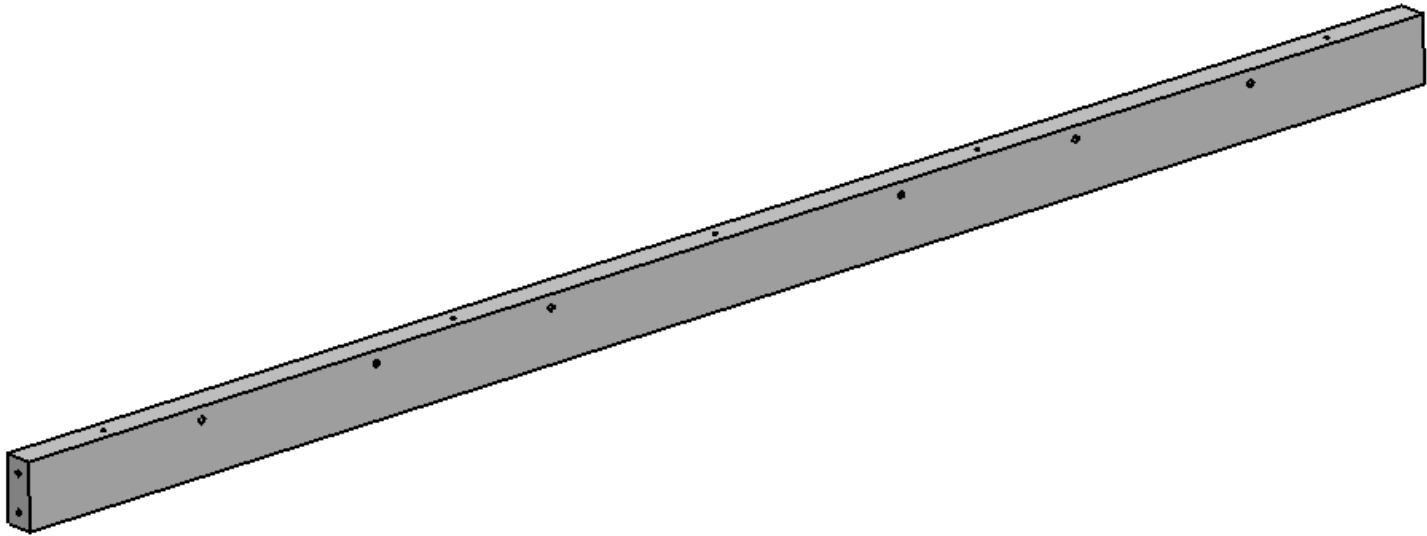
FRONT VIEW



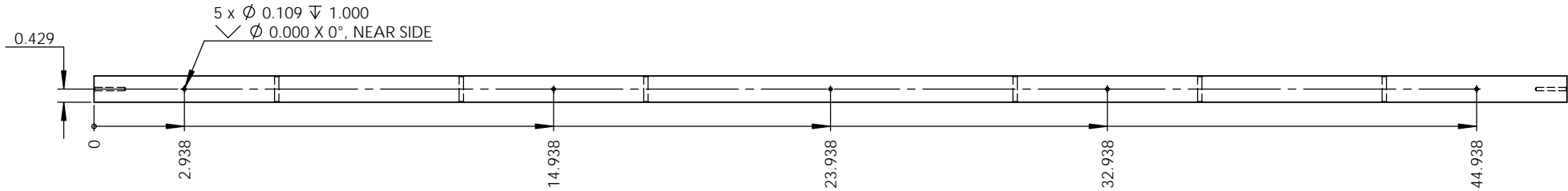
SIDE VIEW
(BOTH ENDS)



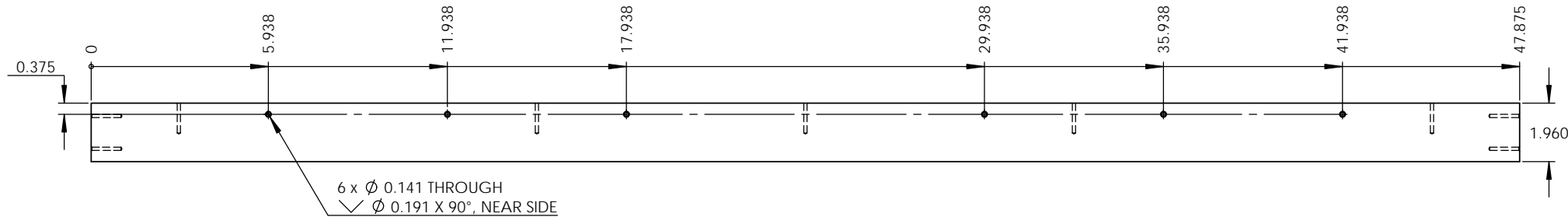
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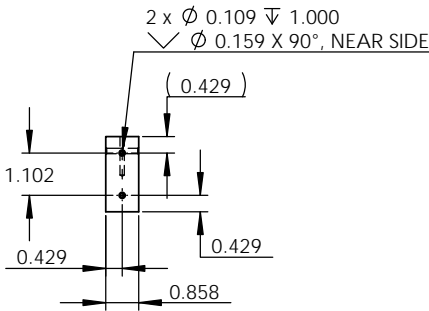
TOP VIEW



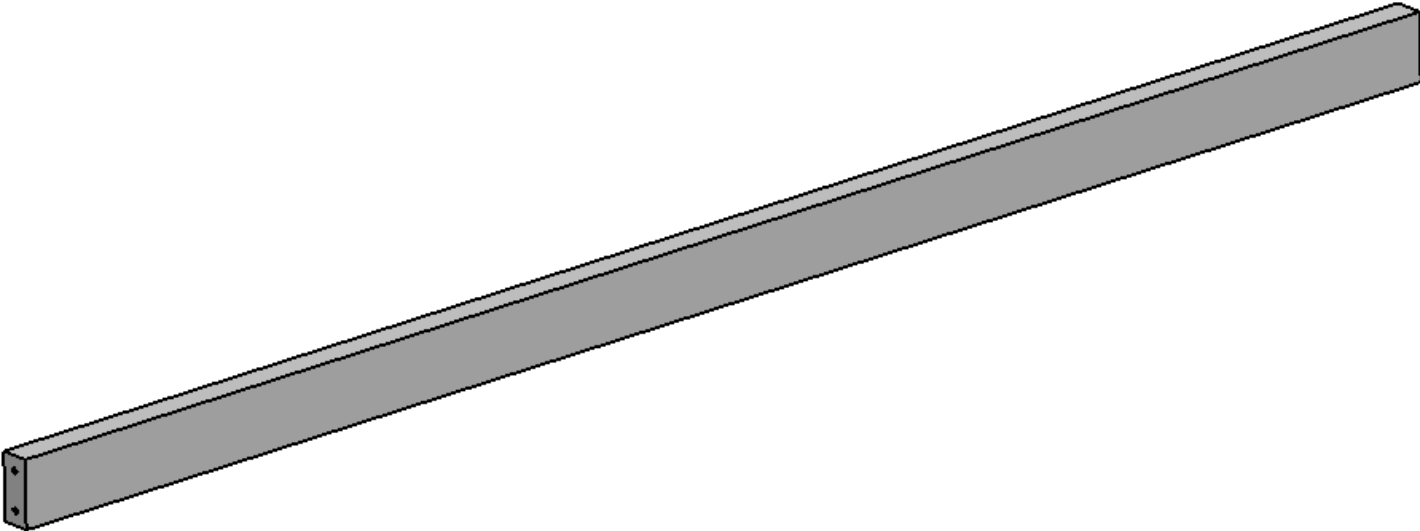
FRONT VIEW



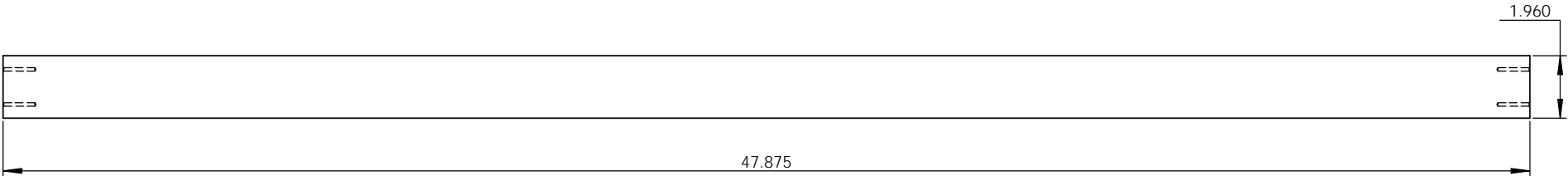
SIDE VIEW
(BOTH ENDS)



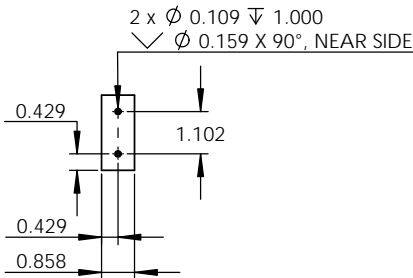
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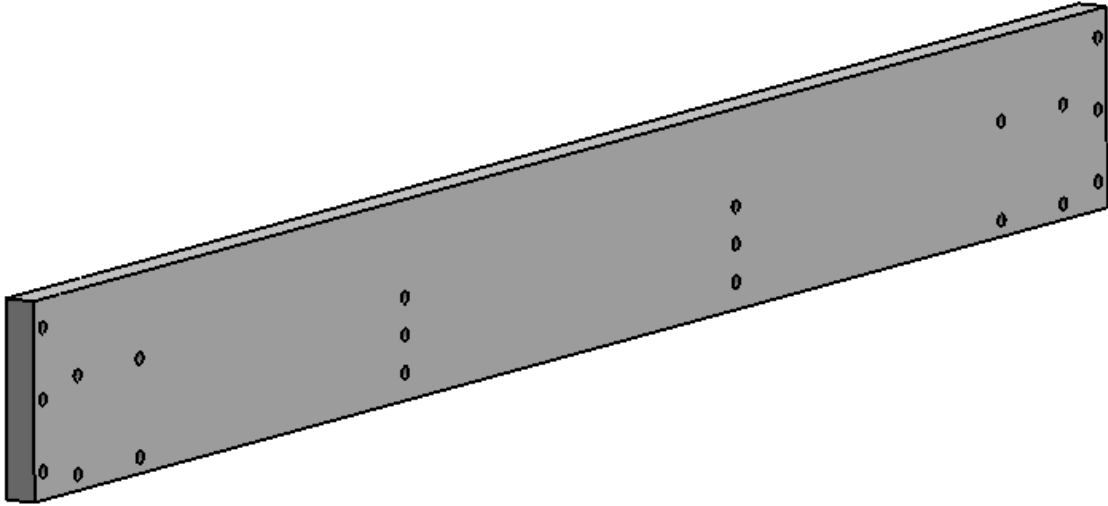
FRONT VIEW



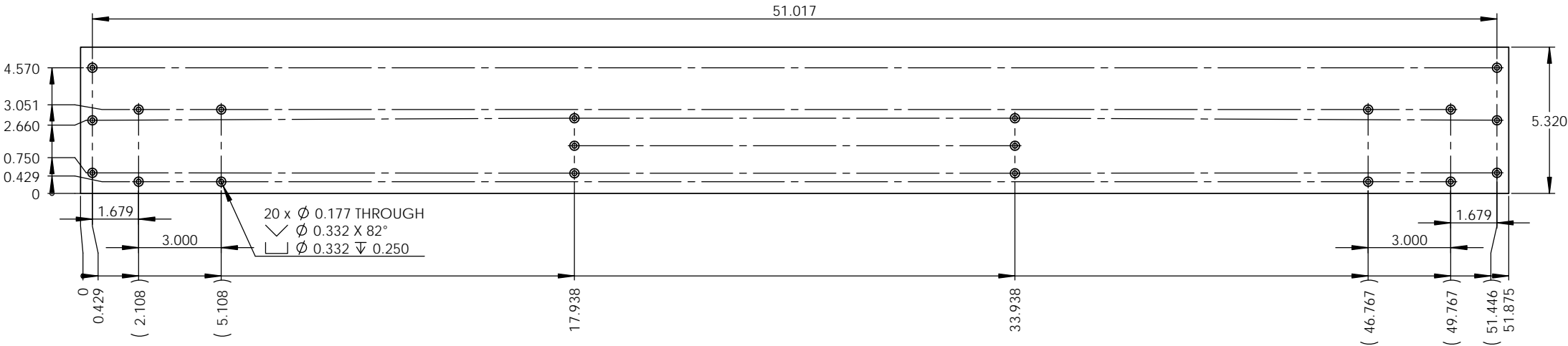
SIDE VIEW
(BOTH ENDS)



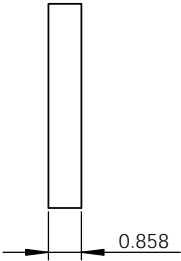
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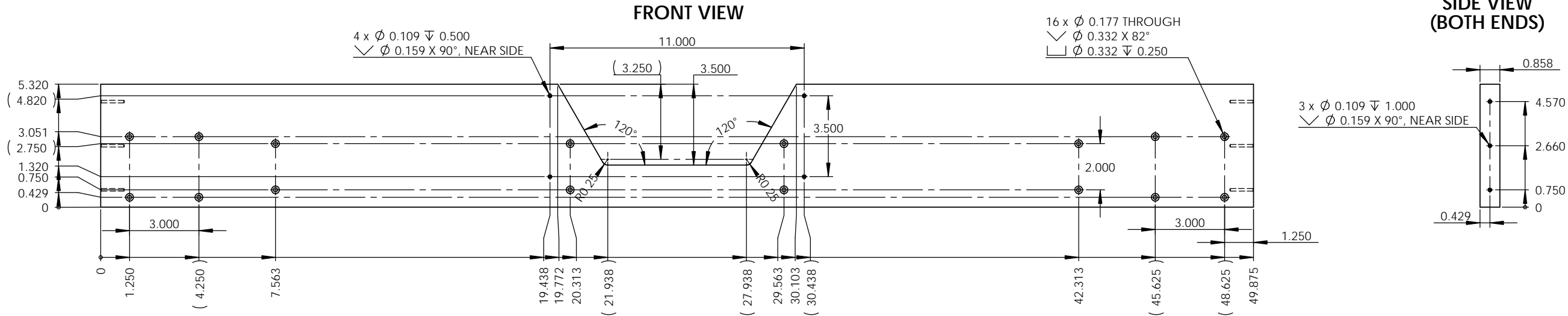
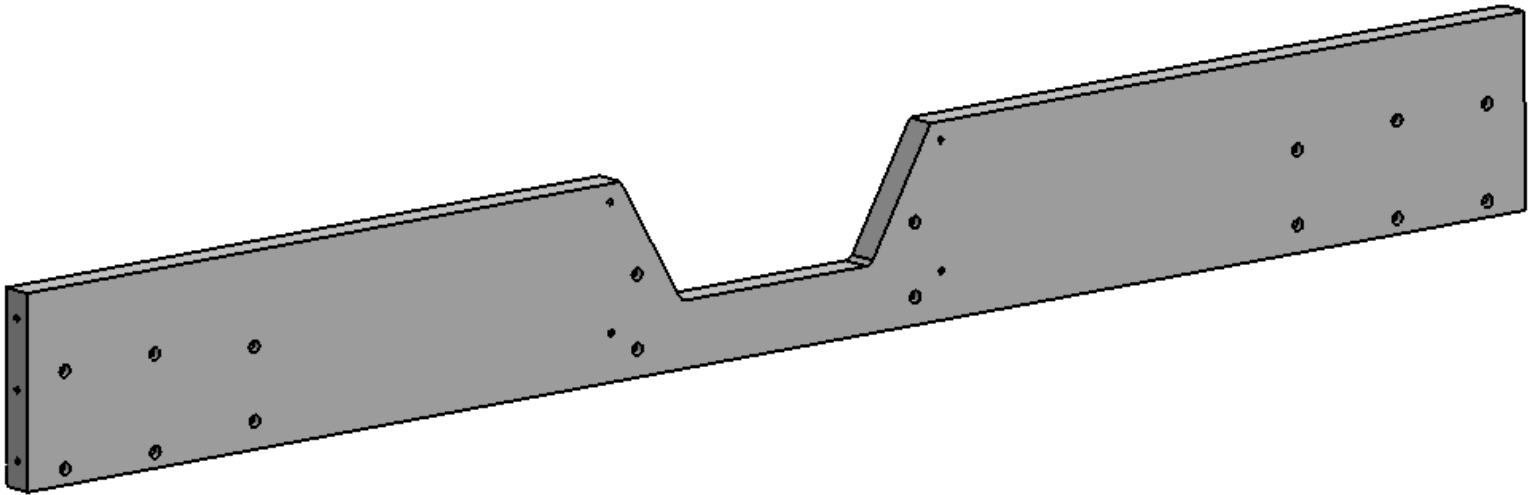
FRONT VIEW



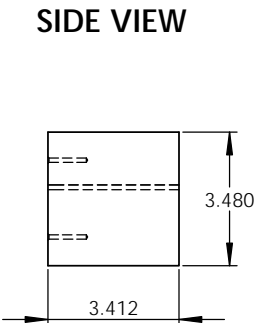
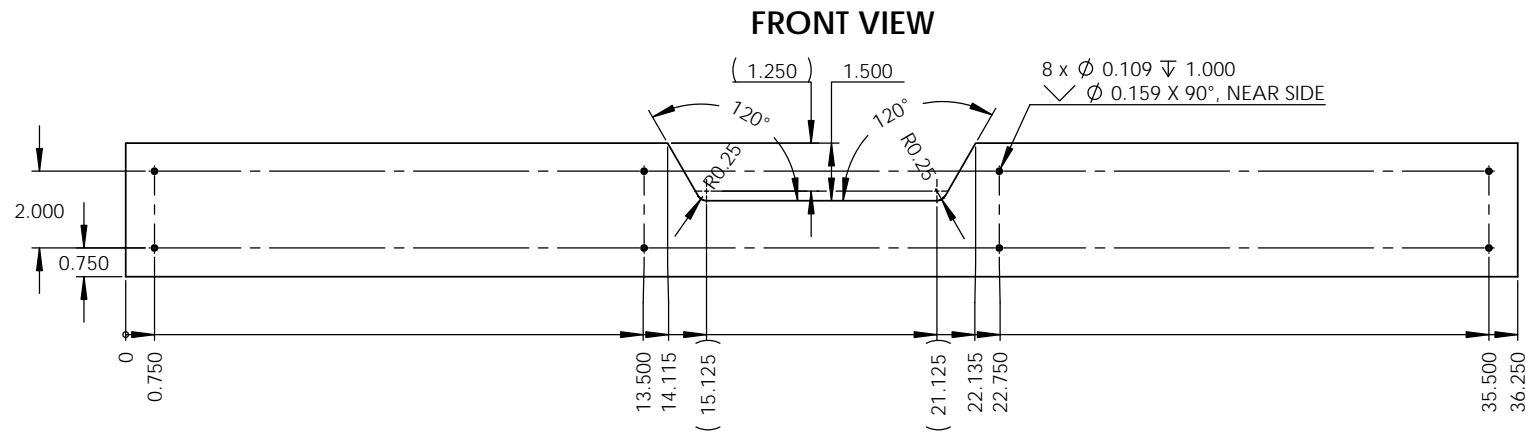
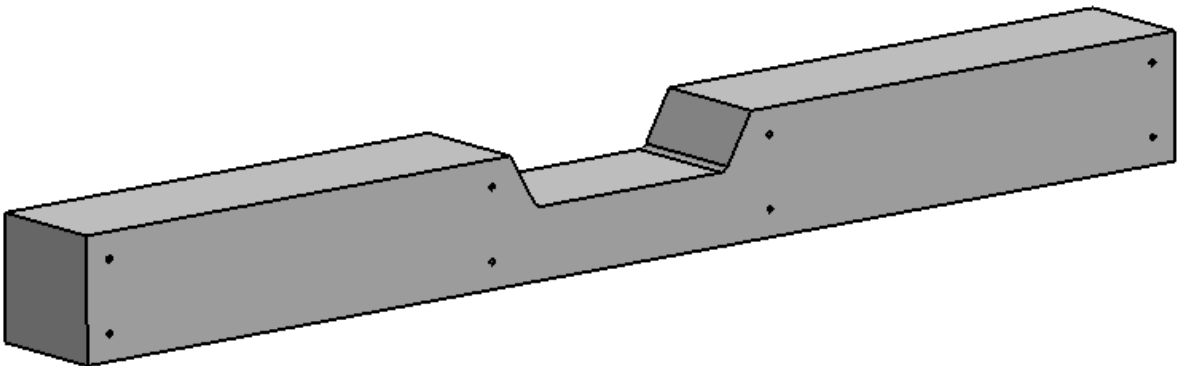
SIDE VIEW



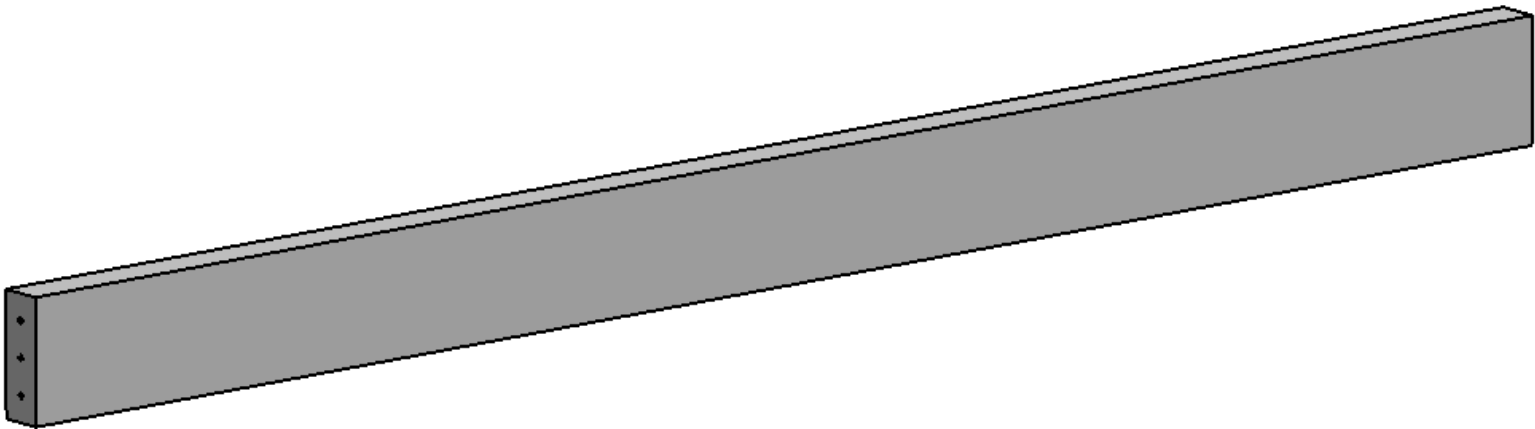
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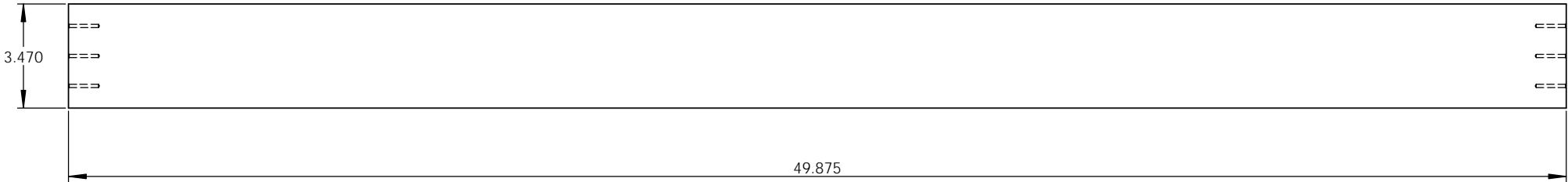
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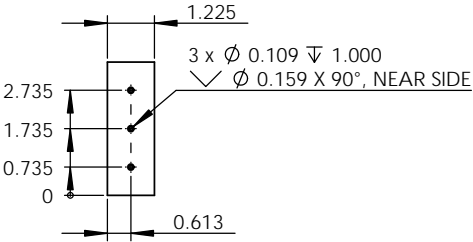
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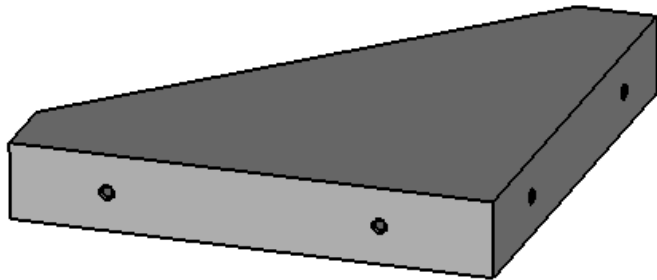
FRONT VIEW



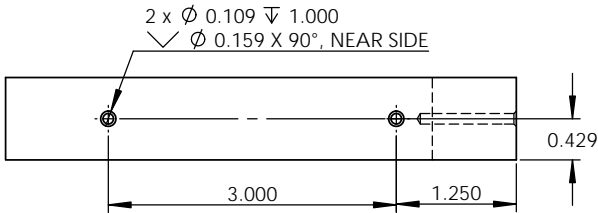
SIDE VIEW
(BOTH ENDS)



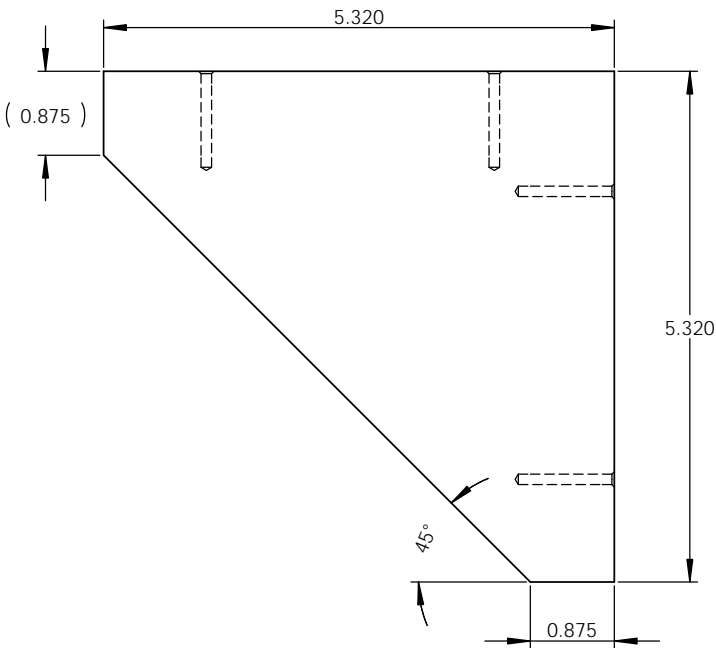
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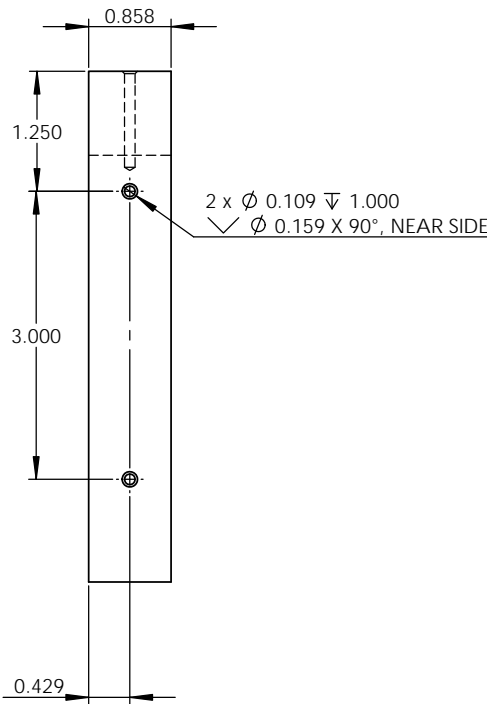
TOP VIEW



FRONT VIEW



SIDE VIEW



REVISION HISTORY:			
REV	DESCRIPTION	DATE	INITIALS
01	INITIAL RELEASE	18/FEB/15	J.H.

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DO NOT SCALE

PROPRIETARY AND CONFIDENTIAL



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TOLERANCES UNLESS OTHERWISE SPECIFIED




LINEAR: ±0.030 "

ANGULAR: ±1.0°

DESIGN:	JEFFERY HOOVER	18-FEB-2015
APPROVED:	SORIN PINZARIU	18-FEB-2015
MATERIAL:	SEE NOTES	
FINISH:	AS SUPPLIED	
SPECIFICATION:		



ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED



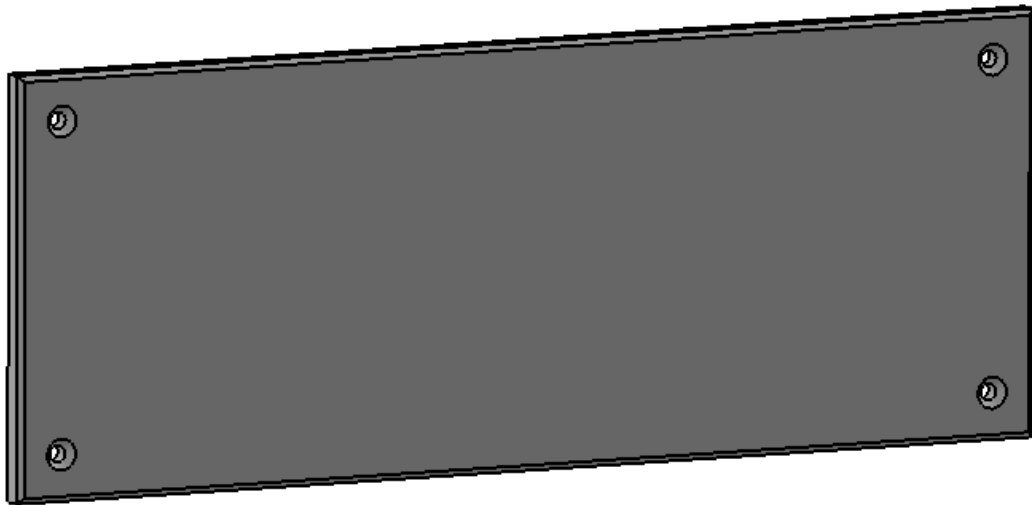
Environment CanadaEnvironnement Canada

Meteorological Service of CanadaService Météorologique du Canada

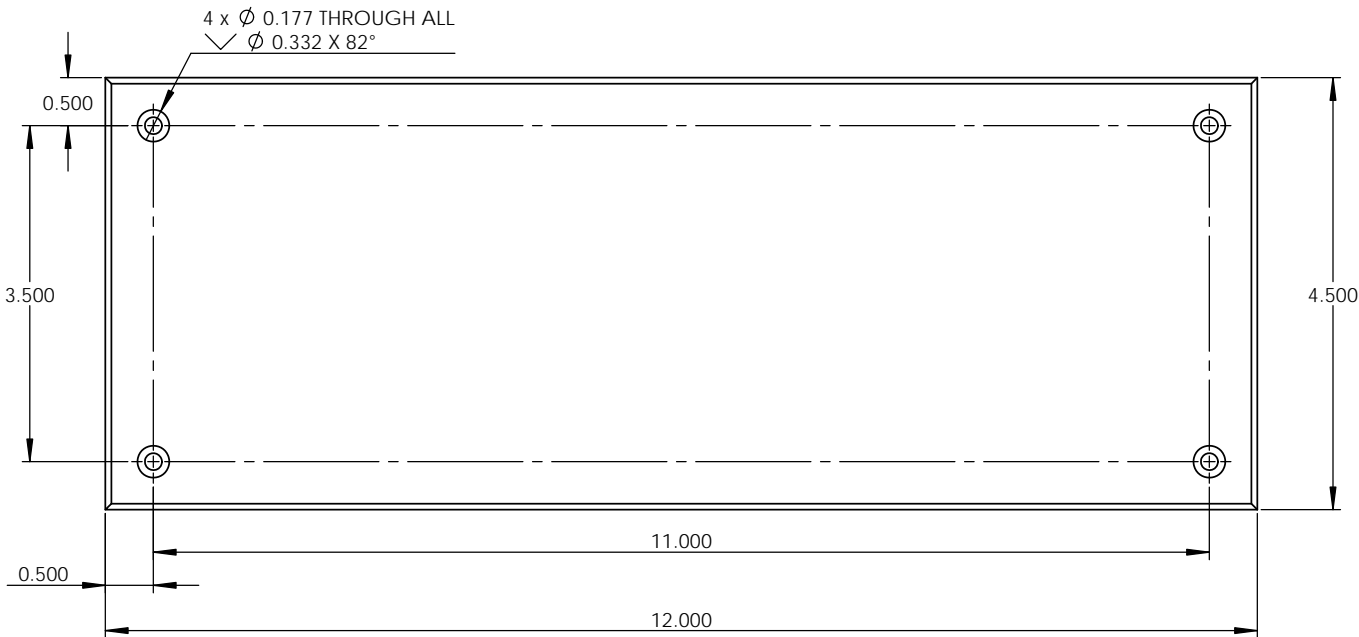
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CORNER BRACE

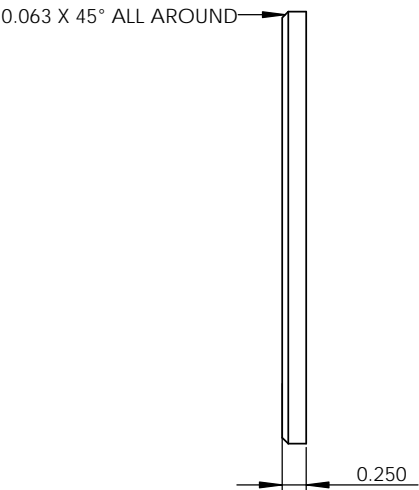
DRAWING NUMBER:	REVISION:
GND-SDT-B13	01



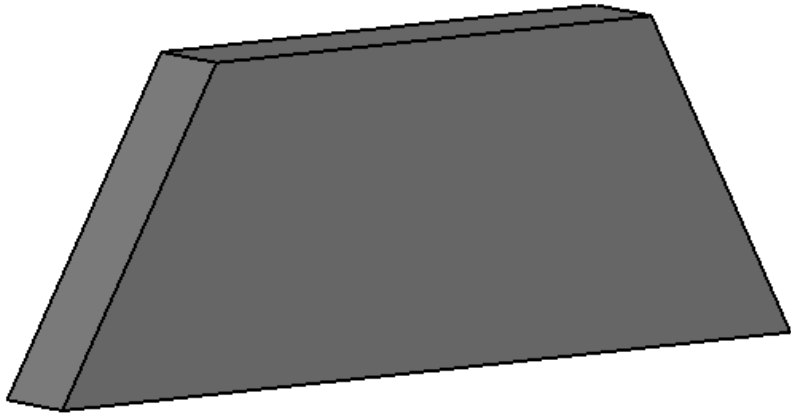
FRONT VIEW



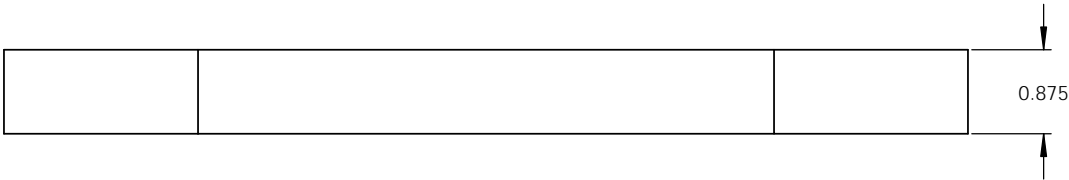
SIDE VIEW



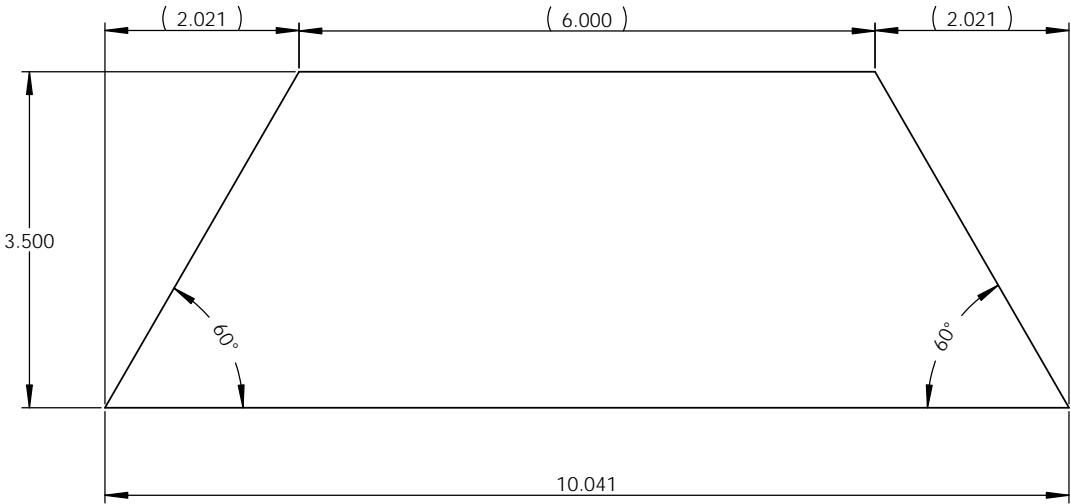
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TOP VIEW



FRONT VIEW



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DESIGN:

JEFFERY HOOVER

18-FEB-2015

APPROVED:

SORIN PINZARIU

18-FEB-2015

MATERIAL:

SEE NOTES

FINISH:

AS SUPPLIED

SPECIFICATION:

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED

Environment Canada

Environnement Canada

Meteorological Service of Canada

Service Météorologique du Canada

TITLE:

HANDLE INSERT BLOCK

DRAWING NUMBER:

GND-SDT-B15

REVISION:

01

SHEET 16 OF 16