

Sign-off Sheet

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Any Standard Drawing or Detail are provided to convey the City's ideal general arrangement and requirements. Representations are not to scale; they may be substantially schematic in nature and/or require further elaboration and development. These documents are not suitable for integration into a specific implementation without review and modification and are only intended for use by a competent designer exercising professional judgment. The designer shall modify and supplement as necessary to provide a complete, properly functioning design that conforms in all respects to the City's functional requirements.

When employing any aspect of these drawings, the responsible professional designer shall remove any authentication of the original author(s), note any provenance as appropriate, and apply their own authentication as required. Stantec and the Client want to convey that these documents do not constitute a project-specific design. No part of these documents alleviate the responsibility of the professionals retained to design and construct specific projects from taking full responsibility and authenticating their designs as required in accordance with AEP, APEGA, AWWA, Alberta OH&S, and any other statutory or safety requirements.

List of Drawings and Details include;

Drawing	Title	Drawing	Title	Drawing	Title
PK1000	Wood Bollard And Chain Detail	PK 2004	Booster Pump Station Section View	PK2015	Large Controller Cabinet Pedestal
PK1001	Removable Steel Bollard	PK2005	Booster Pump Station Section View	PK2016	Concrete Pad for Large Irrigation Controller Cabinet
PK1002	Playground Concrete Border Header	PK2006	Booster Pump Station Roller Wheel Detail	PK2017	Irrigation Gate Valve and Quick Coupler
PK1003	3.0m Asphalt Trails	PK2007	Booster Pump Station Connections Details	PK2018	Electric Valve and Gate Valve
PK1004	Tree Planting & Animal Protection Detail	PK2008	Irrigation Water Service Vault For a Typ. 2 Inch Service (End Hinged)	PK2019	Multiple Gate Valve and Electric Valve Timber Vault

Sign-off Sheet

PK1005	Shrub Bed Planting	PK2009	Irrigation Water Service Vault For a Typ. 2 Inch Service (Side Hinged)	PK2020	Irrigation Swing Joint Assembly
PK1006	Soil Cell Tree Planting	PK2010	Irrigation Water Service Vault Hinge Detail	PK2021	Irrigation Swing Joint Assembly Plan View Electro-fused
PK1007	Bench Concrete Pad Layout Detail	PK2011	Small Irrigation Controller Cabinet	PK2022	Swing Joint Assembly Plan View Butt fused
PK2000	Irrigation Water Service Alignment Without Booster Pump	PK2012	Small Controller Cabinet Pedestal	PK2023	Irrigation Cabinet Layout Detail
PK2001	Irrigation Water Service Alignment With Booster Pump	PK2013	Concrete Pad for Small Irrigation Controller Cabinet	PK2024	Irrigation Pole Mount Detail
PK2002	Water Service With Booster Pump Plan View	PK2014	Large Irrigation Communication Controller Cabinet	PK2025	Irrigation Mainline trenching Detail
PK2003	Booster Pump Station Plan View				

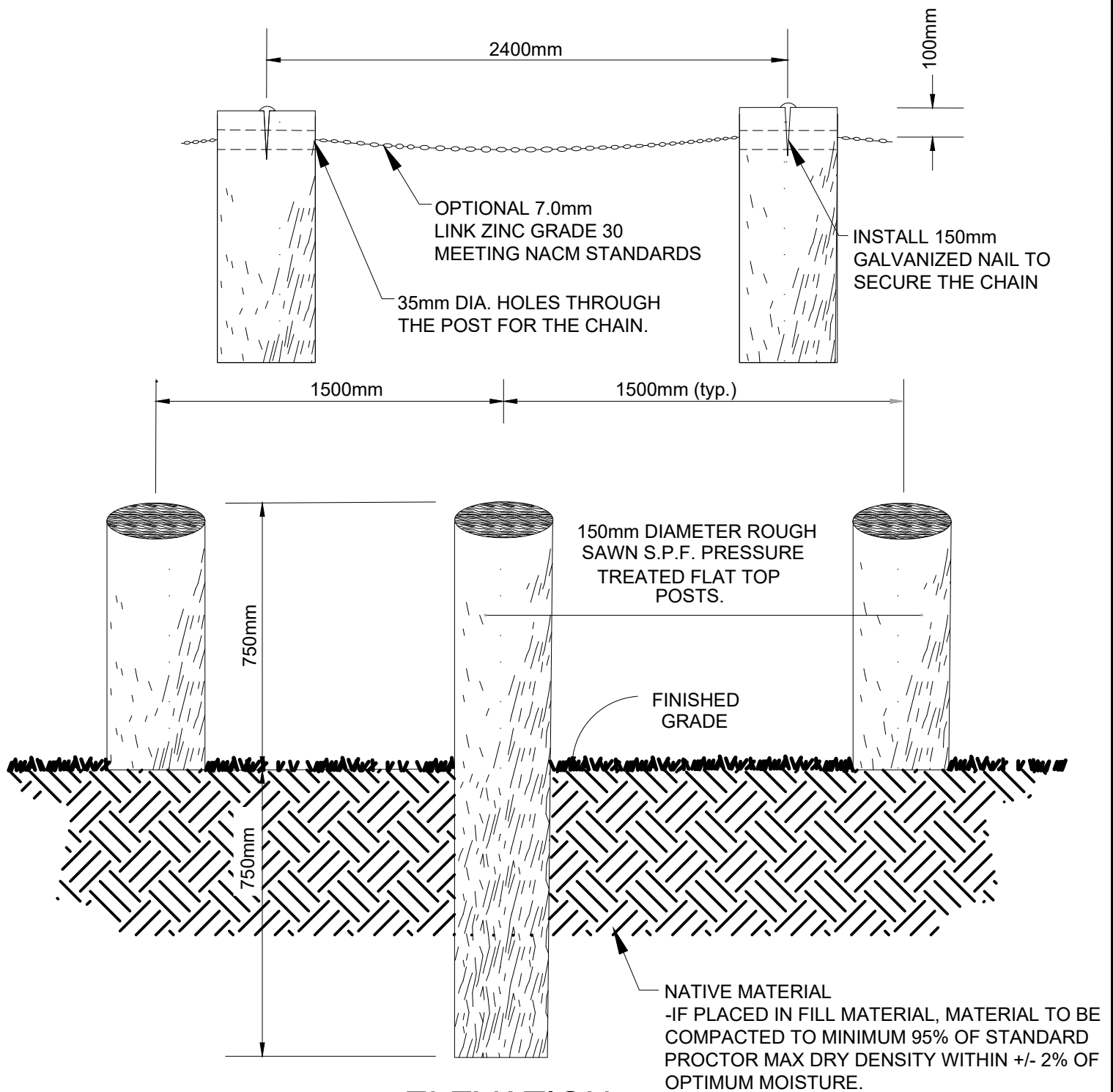
Prepared by:



Jeff Vangen, P.Eng.

Permit:


Al Ashcroft, P.Eng.



ELEVATION

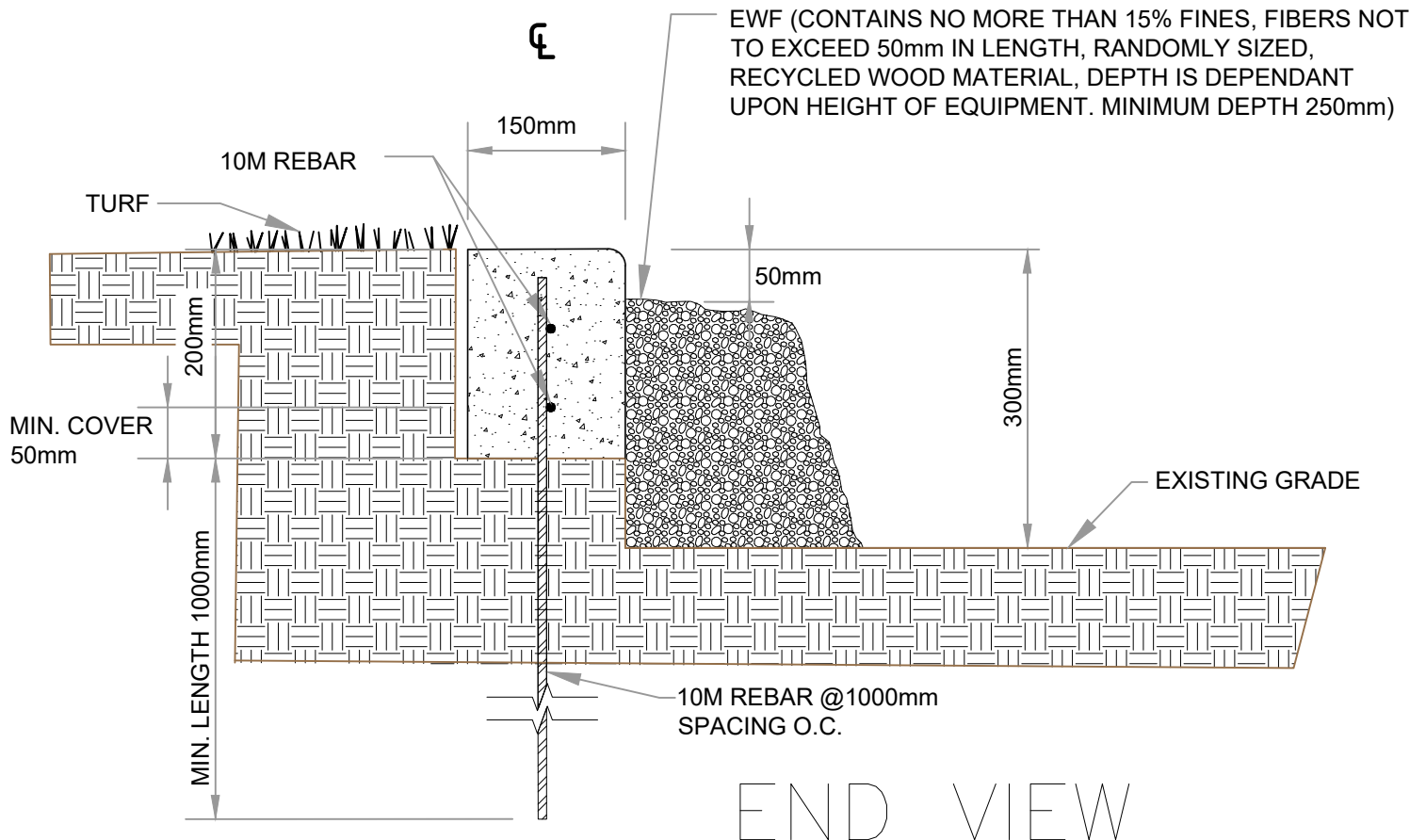
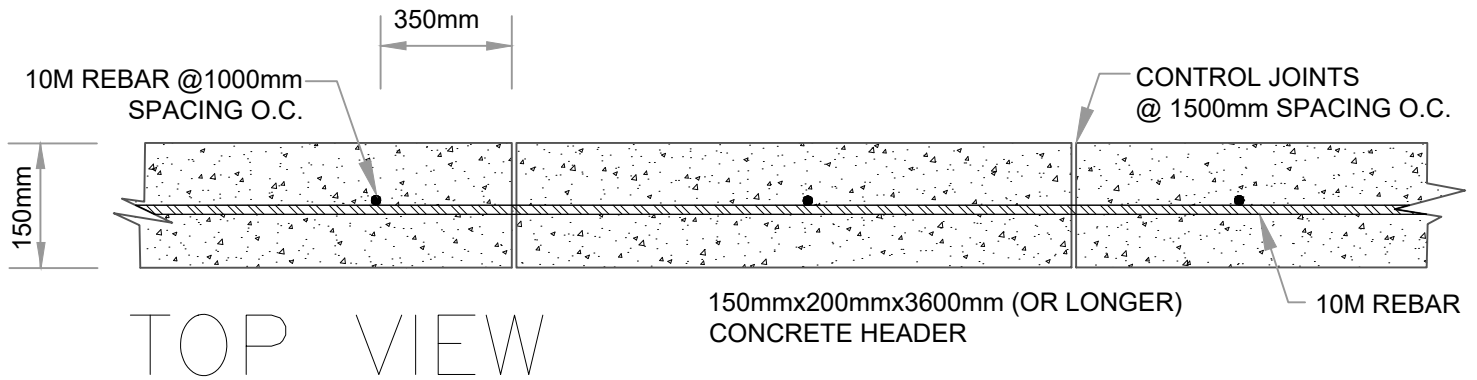
NOTES:


1. POSTS TO BE PRESSURE TREATED CONSTRUCTION GRADE TIMBER. PRESSURE TREATMENT TO BE DCOI OR APPROVED EQUAL. ALL CUTS IN FIELD TO BE TREATED WITH SAME.
2. CONTRACTOR TO COMPLETE UTILITY LOCATES PRIOR TO CONSTRUCTION.
3. ALL AREAS DISTURBED AS PART OF CONSTRUCTION ARE TO BE RESTORED.
4. CHAIN BETWEEN POSTS SHALL HAVE APPROX. 100mm TO 150mm OF SWAY.

						DATE: Apr. 30, 2024	PARKS & RECREATION	TITLE: WOOD BOLLARD AND CHAIN DETAIL
						SCALE: N.T.S.		
						DRAWN: K.G.		
1.	24	04	01	Updated Drawing		KG	 Medicine Hat The Gas City	DWG No.: PK1000 Rev.: 1
No	YY	MM	DD	REVISION		BY		
	DATE			DESCRIPTION				
							APPROVED: J.V.	

NOTES:

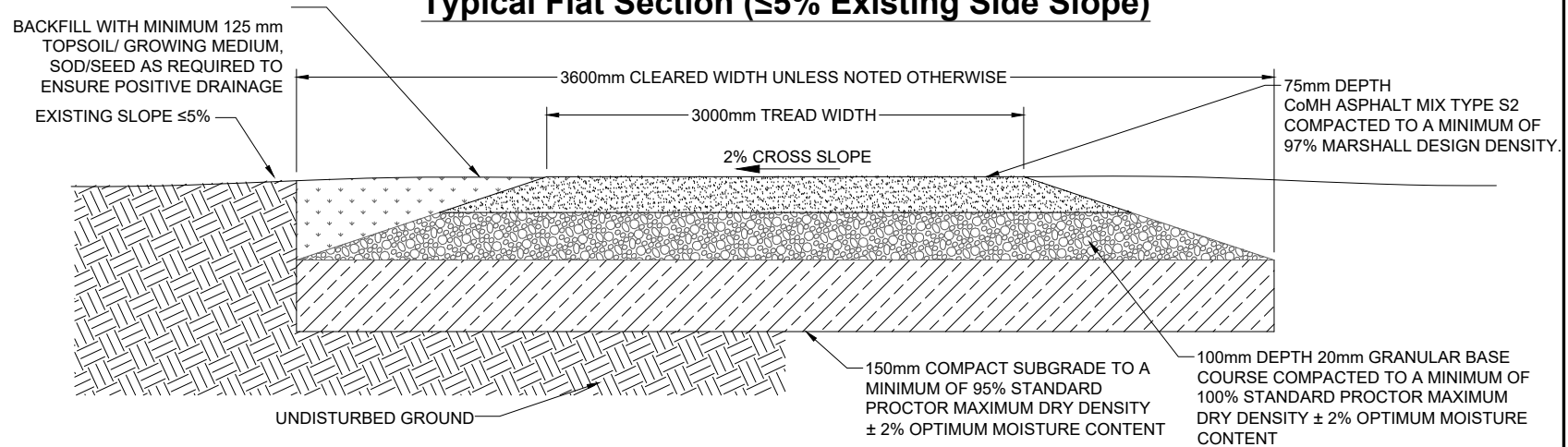
1. CONCRETE TO BE PLACED AS PER SECTION 03300-Cast-In-Place Concrete.
2. CONTROL JOINTS EVERY 1500mm.
3. MINIMUM SPACING BETWEEN REBAR AND CONTROL JOINTS TO BE 350mm.
4. CONTRACTOR TO COMPLETE UTILITY LOCATES PRIOR TO CONSTRUCTION.
5. ALL AREAS DISTURBED AS PART OF CONSTRUCTION ARE TO BE RESTORED.



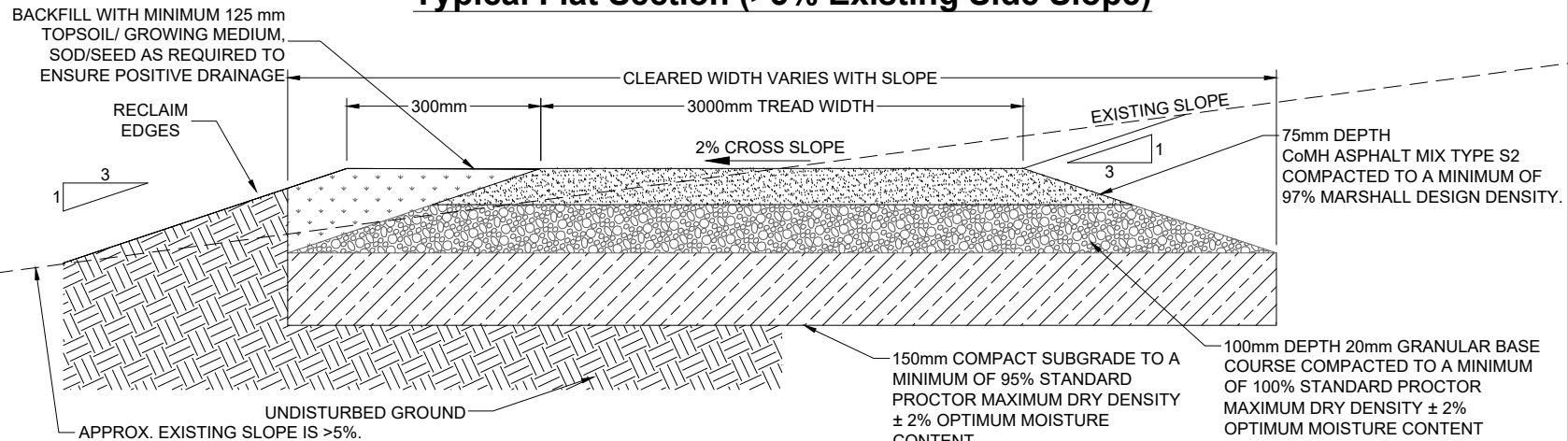
						DATE:	Apr. 30, 2024	PARKS & RECREATION	TITLE: PLAYGROUND CONCRETE BORDER HEADER		
						SCALE:	N.T.S.				
						DRAWN:	K.G.				
1.	24	04	01	Updated Drawing		KG					
No	YY	MM	DD	REVISION		BY	APPROVED:			DWG No.: PK1002	Rev.: 1
	DATE			DESCRIPTION			J.V.				

NOTE:
1. CONTACT CITY ARBORIST PRIOR TO WORKING WITHIN 5m OF TREES.

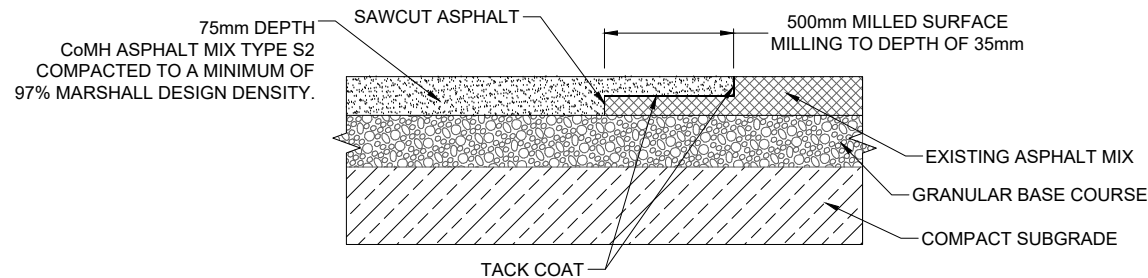
Typical Flat Section ($\leq 5\%$ Existing Side Slope)



Typical Flat Section ($> 5\%$ Existing Side Slope)



ASPHALT PAVEMENT MILLED JOINT DETAIL



General Notes

1.	Updated Drawing	2024.04.01
No.	Revision/Issue	Date

PARKS
&
RECREATION



3.0M
ASPHALT
TRAILS

DWG No.:

PK1003

Date

Apr. 30, 2024

Scale

N.T.S.

Drawn

K.G.

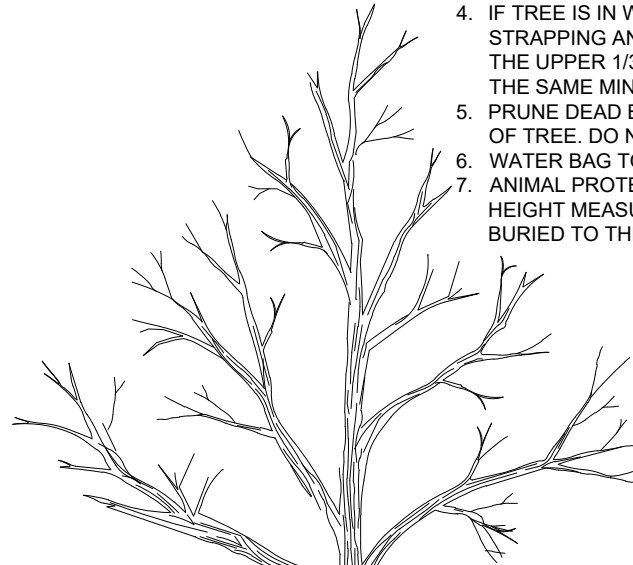
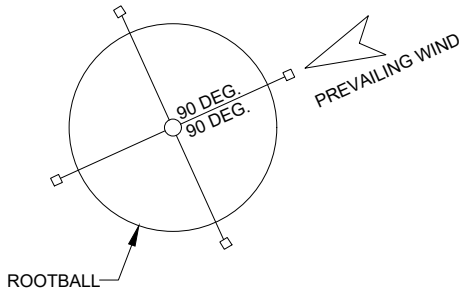
Approved

J.V.

NOTES:

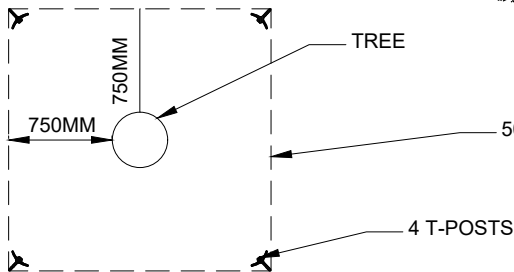
1. REFER TO COMH TREE PLANTING SPECIFICATION - 02491 FOR DETAILS.
2. INSTALLATION INCLUDES REMOVAL OF STAKES ONE YEAR AFTER INSTALLATION.
3. SHAPE SOIL SURFACE TO PROVIDE 900MM DIAMETER WATERING RING.
4. IF TREE IS IN WIRE BASKET, CUT AND REMOVE STRAPPING AND THE HORIZONTAL/VERTICAL WIRES OF THE UPPER 1/3 AS A MINIMUM . PILL BACK BURLAP TO THE SAME MINIMUM.
5. PRUNE DEAD BRANCHES TO MINIMUM NATURAL FORM OF TREE. DO NOT PRUNE HEAVILY AT PLANTING.
6. WATER BAG TO BE APPROVED BEFORE INSTALLATION.
7. ANIMAL PROTECTION WIRE FENCE TO BE 1.83M IN HEIGHT MEASURED FROM LANDSCAPE GRADE AND BURIED TO THE TOP OF ROOT BALL.

PLAN OF GUYING:




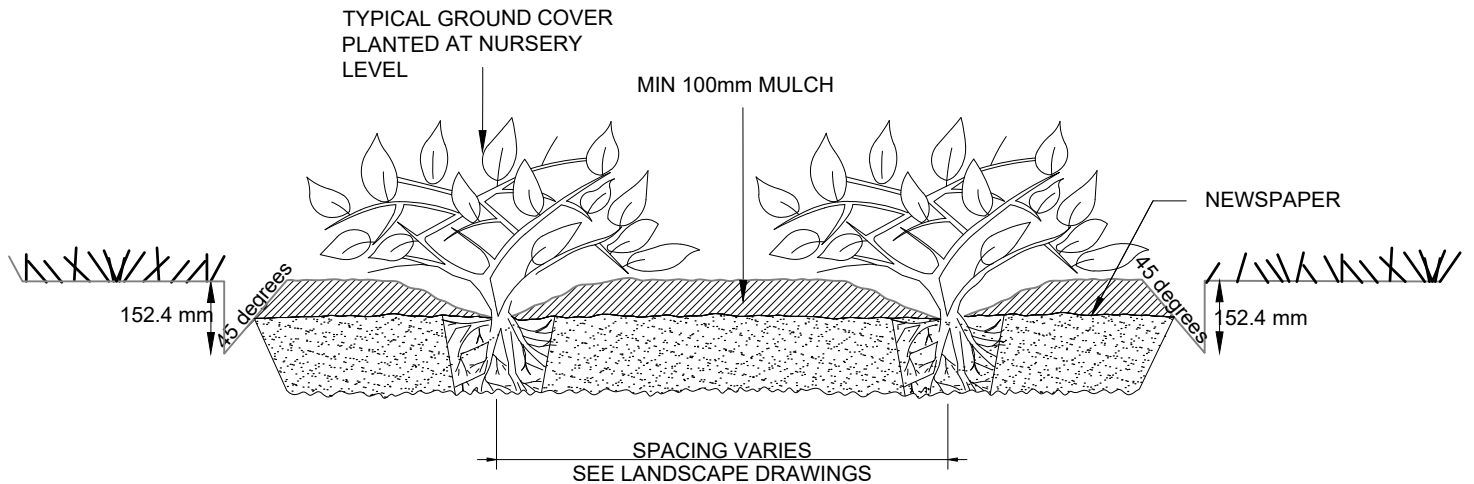
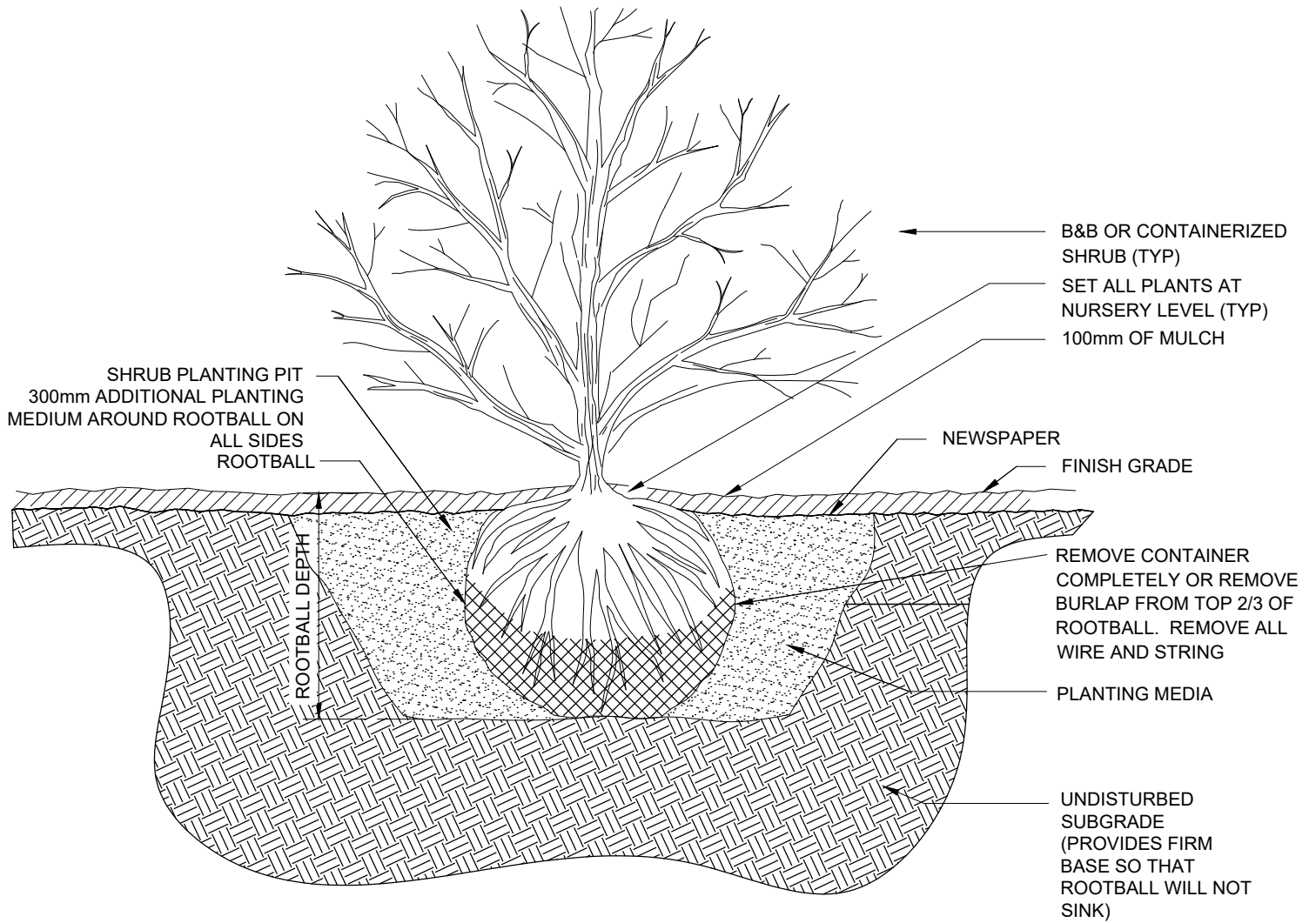
ROUGHEN SIDES OF PLANTING
HOLE, MAXIMIZE EXCAVATED
AREA WITHOUT UNDERMINING
PAVING/CURB.


CUT AWAY THE STRAPPINGS
AND REMOVE THE TOP 1/3 OF
WIRE AND BURLAP



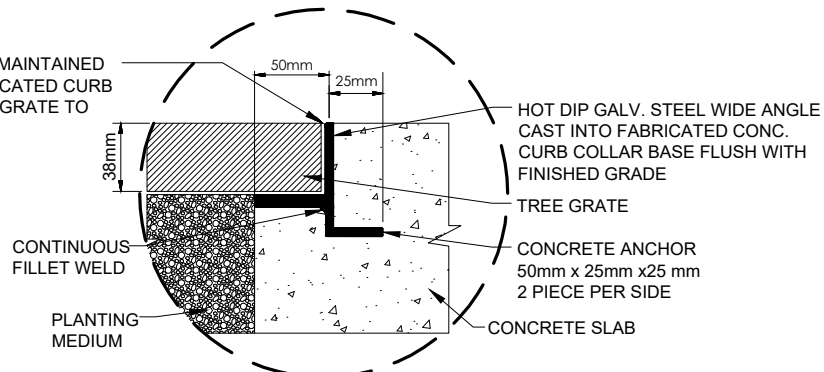
ANIMAL PROTECTION DETAIL

						DATE: Apr. 30, 2024	PARKS & RECREATION	TITLE: TREE PLANTING & ANIMAL PROTECTION DETAIL
						SCALE: N.T.S.		
						DRAWN: K.G.		
1.	24	04	01	Updated Drawing		KG		DWG No.: PK1004 Rev.: 1
No	YY	MM	DD	REVISION		BY		
	DATE		DESCRIPTION			APPROVED: J.V.		



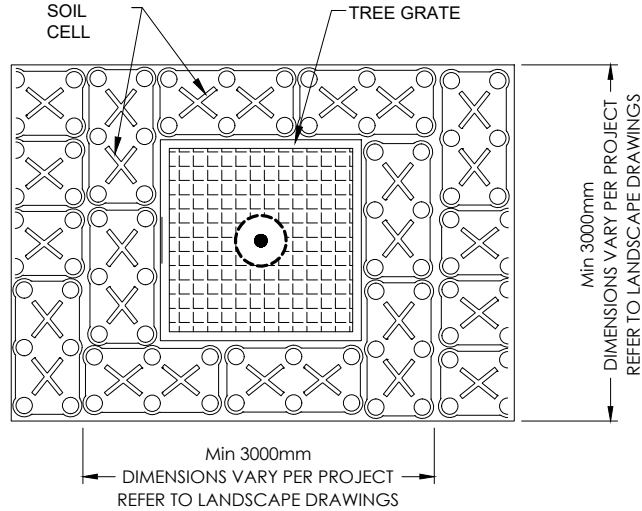
						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div>Medicine Hat The Gas City</div>	TITLE:	
						SCALE:	N.T.S.		SHRUB BED PLANTING	
						DRAWN:	K.G.			
1.	24	04	01	Updated Drawing		KG				
No	YY	MM	DD	REVISION DESCRIPTION		BY	APPROVED:	J.V.	DWG No.: PK1005	Rev.: 1
	DATE									

ENSURE GAP IS MAINTAINED
BETWEEN FABRICATED CURB
COLLAR & TREE GRATE TO
ACCOMMODATE
INSTALLATION

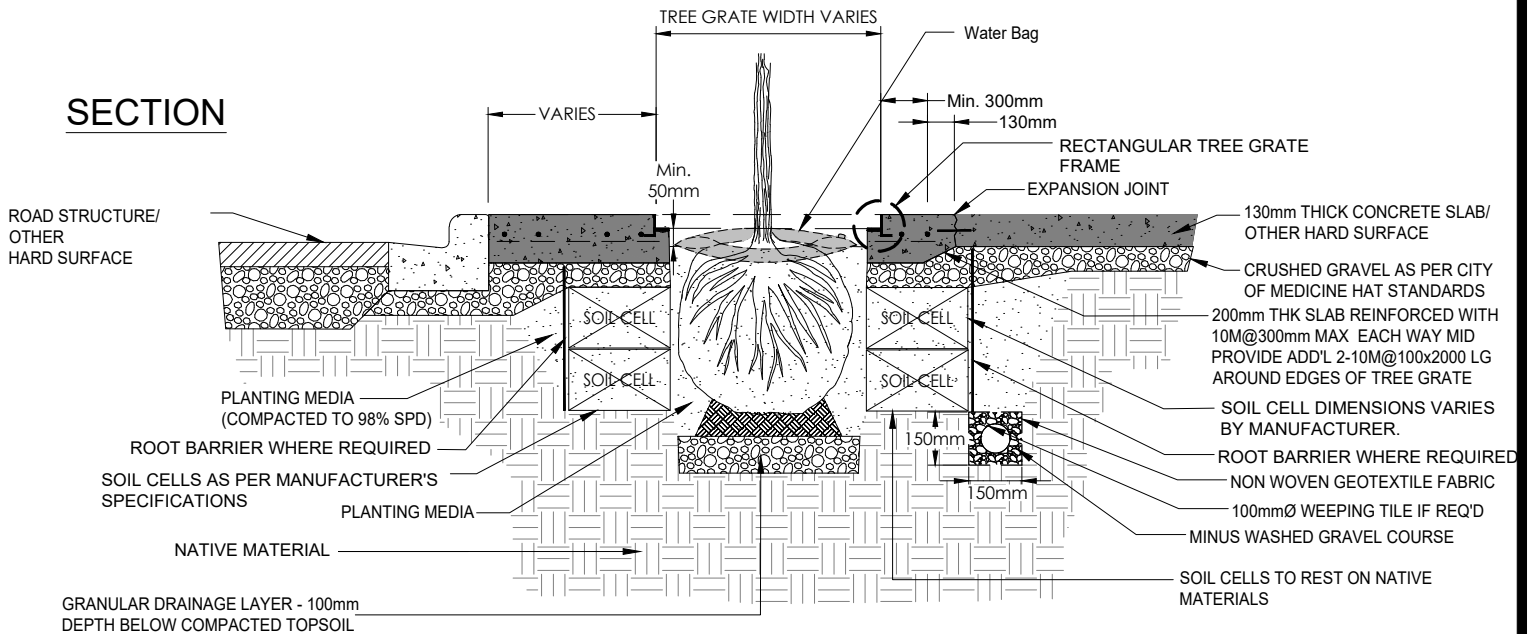


TREE GRATE FRAME ENLARGEMENT

PLAN

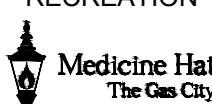


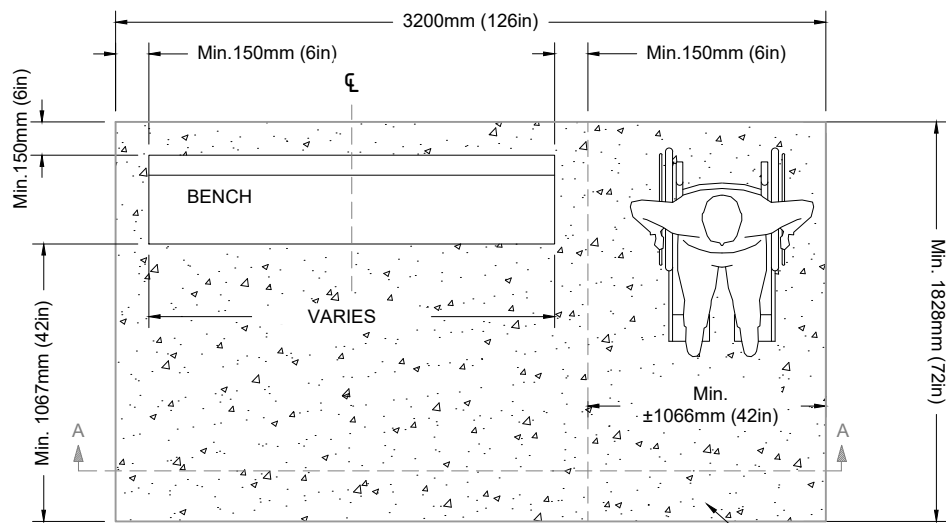
SECTION



NOTE:

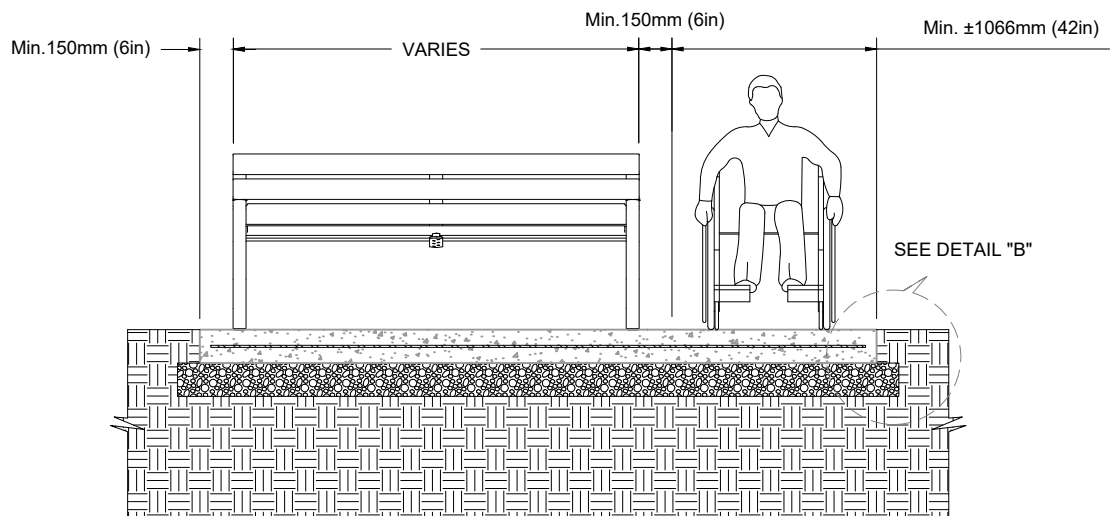
1. CONFIRM THICKNESS AND DIMENSIONS OF TREE GRATE WITH GRATE MANUFACTURER - SIZE OPENING AND DEPTH ACCORDINGLY.
2. GEOTEXTILE FABRIC TO BE OVERLAPPED 350mm MINIMUM.
3. ALL CONCRETE FOR CITY SIDEWALKS TO CURRENT CITY OF MEDICINE HAT ROAD STANDARDS (CURRENT EDITION).
4. MINIMUM OF ONE SOIL CELL AROUND EACH SIDE OF TREE.
5. FOLLOW MANUFACTURER GUIDELINES FOR SOIL CELL INSTALLATION.

						DATE: Apr. 30, 2024	PARKS & RECREATION	TITLE: SOIL CELL TREE PLANTING
						SCALE: N.T.S.		
						DRAWN: K.G.		
1.	24	04	01	Updated Drawing		KG		DWG No.: PK1006 Rev.: 1
No	YY	MM	DD	REVISION		BY		
	DATE			DESCRIPTION				
						APPROVED: J.V.		



RESERVED SPACE ADJACENT TO BENCH WHERE ACCESSIBLE SPACE IS TO BE INCLUDED.

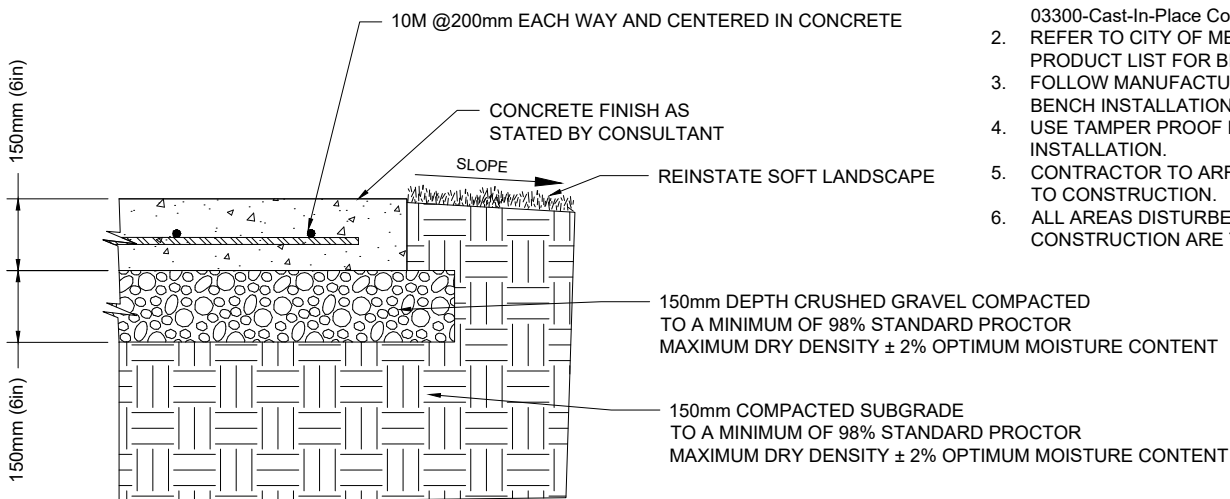
BENCH CONCRETE PAD LAYOUT




DETAIL "A-A"

NOTES:

1. CONCRETE TO BE PLACED AS PER SECTION 03300-Cast-In-Place Concrete.
2. REFER TO CITY OF MEDICINE HAT APPROVED PRODUCT LIST FOR BENCH REQUIREMENTS.
3. FOLLOW MANUFACTURER GUIDELINES FOR BENCH INSTALLATION.
4. USE TAMPER PROOF BOLTS FOR BENCH INSTALLATION.
5. CONTRACTOR TO ARRANGE FOR LOCATES PRIOR TO CONSTRUCTION.
6. ALL AREAS DISTURBED AS PART OF CONSTRUCTION ARE TO BE RESTORED.



DETAIL "B-B"

						DATE: Apr. 30, 2024	<div>PARKS & RECREATION</div> <div>Medicine Hat The Gas City</div>	TITLE: <div>BENCH CONCRETE PAD LAYOUT DETAIL</div>
						SCALE: N.T.S.		
						DRAWN: K.G.		
1.	24	04	01	Updated Drawing	KG	APPROVED: J.V.		
No	YY	MM	DD	REVISION DESCRIPTION	BY			DWG No.: PK1007 Rev.: 1

1. FOR 4" (100mm) OR LARGER SERVICES, FLANGED CONNECTIONS TO BE USED.
2. YEARLY TESTING OF BACKFLOW PREVENTER WITHIN 2 DAYS OF SERVICE BEING TURNED ON.
3. MECHANICAL RESTRAINT TO BE FORD UNI-FLANGE 1360 OR APPROVED ALTERNATIVE.
4. PIPE SUPPORT AT MAX 24" (609.6mm) SPACING.
5. CONSTRUCTION TO PROVIDE 2" (50mm) PLUG FOR REDUCER BUSHING.
6. MIN. DISTANCE BETWEEN LOWEST FITTING AND GRAVEL SURFACE TO BE 4" (100mm).
7. STANDARD 1" (25mm) CURB STOP BOX (BEYOND) FOR SEASONAL DRAINAGE. PROVIDE 1" (25mm) SERVICE TAP APPROX. 1m LONG WITH FILTER FABRIC DUCT TAPED OVER THE DRAINING END TO GRAVEL SUMP C/W SERVICE SADDLE, CORPORATION STOP, STANDARD CURB STOP VALVE, & SERVICE BOX TO GRADE. GRAVEL SUMP TO BE SIZED TO SUIT VOLUME OF RISER. IF GEOTECHNICAL REPORT INDICATE THAT GROUNDWATER IS LESS THAN 3m FROM SURFACE OR IS OBSERVED IN TRENCH, INSTEAD OF 1" (25mm) SERVICE TAP, USE 2" (50mm) SERVICE TAP COMPLETED TO SURFACE AS PER EU-218 AND INFORM ENVIRONMENTAL UTILITIES THAT THE GROUNDWATER LEVEL IS TOO HIGH TO ACCOMMODATE A GRAVEL SUMP DRAIN AND INSTEAD A 2" PUMPOUT RISER WAS INSTALLED. THE SERVICE RISER CAN THEN BE PUMPED OUT EACH AUTUMN.

General Notes

3.	Updated Drawing	2024.04.01
2.	Updated Drawing	2020.04.01
1.	Edited measurements for imperial	2016.06.08
No.	Revision/Issue	Date

PARKS
&
RECREATION



7716

**IRRIGATION WATER
SERVICE HARDWARE
MATERIAL
ALIGNMENT WITHOUT
BOOSTER PUMP**

PK2000

2

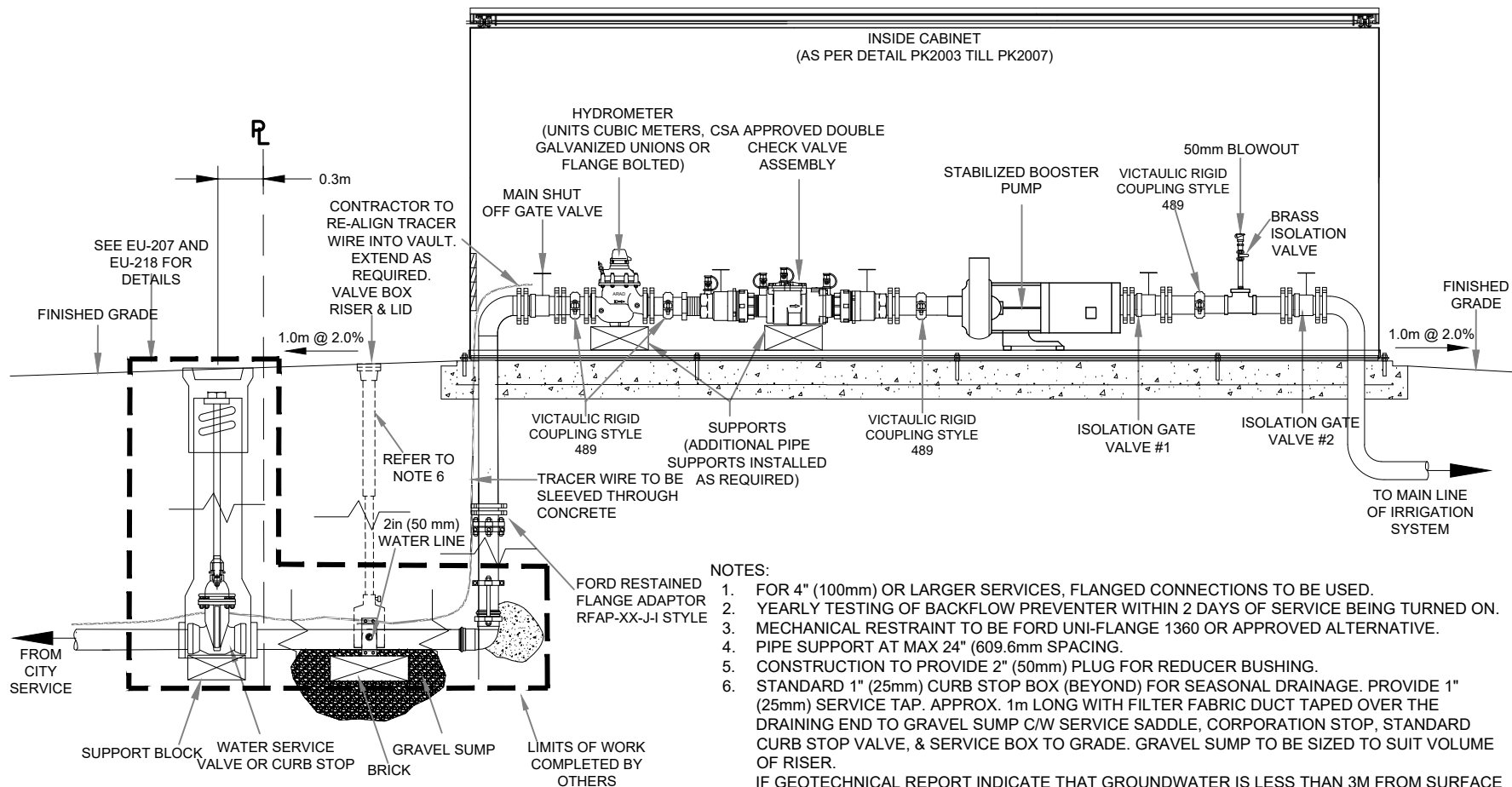
Apr. 30, 2024

...

N.T.S.

Drawn	K.G.
Approved	J.V.

ALIGNMENT WITH BOOSTER PUMP (IN CABINET)



- NOTES:
1. FOR 4" (100mm) OR LARGER SERVICES, FLANGED CONNECTIONS TO BE USED.
 2. YEARLY TESTING OF BACKFLOW PREVENTER WITHIN 2 DAYS OF SERVICE BEING TURNED ON.
 3. MECHANICAL RESTRAINT TO BE FORD UNI-FLANGE 1360 OR APPROVED ALTERNATIVE.
 4. PIPE SUPPORT AT MAX 24" (609.6mm) SPACING.
 5. CONSTRUCTION TO PROVIDE 2" (50mm) PLUG FOR REDUCER BUSHING.
 6. STANDARD 1" (25mm) CURB STOP BOX (BEYOND) FOR SEASONAL DRAINAGE. PROVIDE 1" (25mm) SERVICE TAP. APPROX. 1m LONG WITH FILTER FABRIC DUCT TAPED OVER THE DRAINING END TO GRAVEL SUMP C/W SERVICE SADDLE, CORPORATION STOP, STANDARD CURB STOP VALVE, & SERVICE BOX TO GRADE. GRAVEL SUMP TO BE SIZED TO SUIT VOLUME OF RISER.
- IF GEOTECHNICAL REPORT INDICATE THAT GROUNDWATER IS LESS THAN 3M FROM SURFACE OR IS OBSERVED IN TRENCH, INSTEAD OF 1" (25mm) SERVICE TAP, USE 2" (50mm) SERVICE TAP COMPLETED TO SURFACE AS PER EU-218 AND INFORM ENVIRONMENTAL UTILITIES THAT THE GROUNDWATER LEVEL IS TOO HIGH TO ACCOMMODATE A GRAVEL SUMP DRAIN AND INSTEAD A 2" PUMP-OUT RISER WAS INSTALLED. THE SERVICE RISER CAN THEN BE PUMPED OUT EACH AUTUMN.

General Notes

No.	Revision/Issue	Date
3	Updated Drawing	2024.04.01
2	Updated Drawing	2020.04.01
1	Edited measurements for imperial	2016.08.05

PARKS
&
RECREATION



IRRIGATION WATER
SERVICE HARDWARE
MATERIAL
ALIGNMENT WITH
BOOSTER PUMP

DWG No.:

PK2001

Date:

Apr. 30, 2024

Scale:

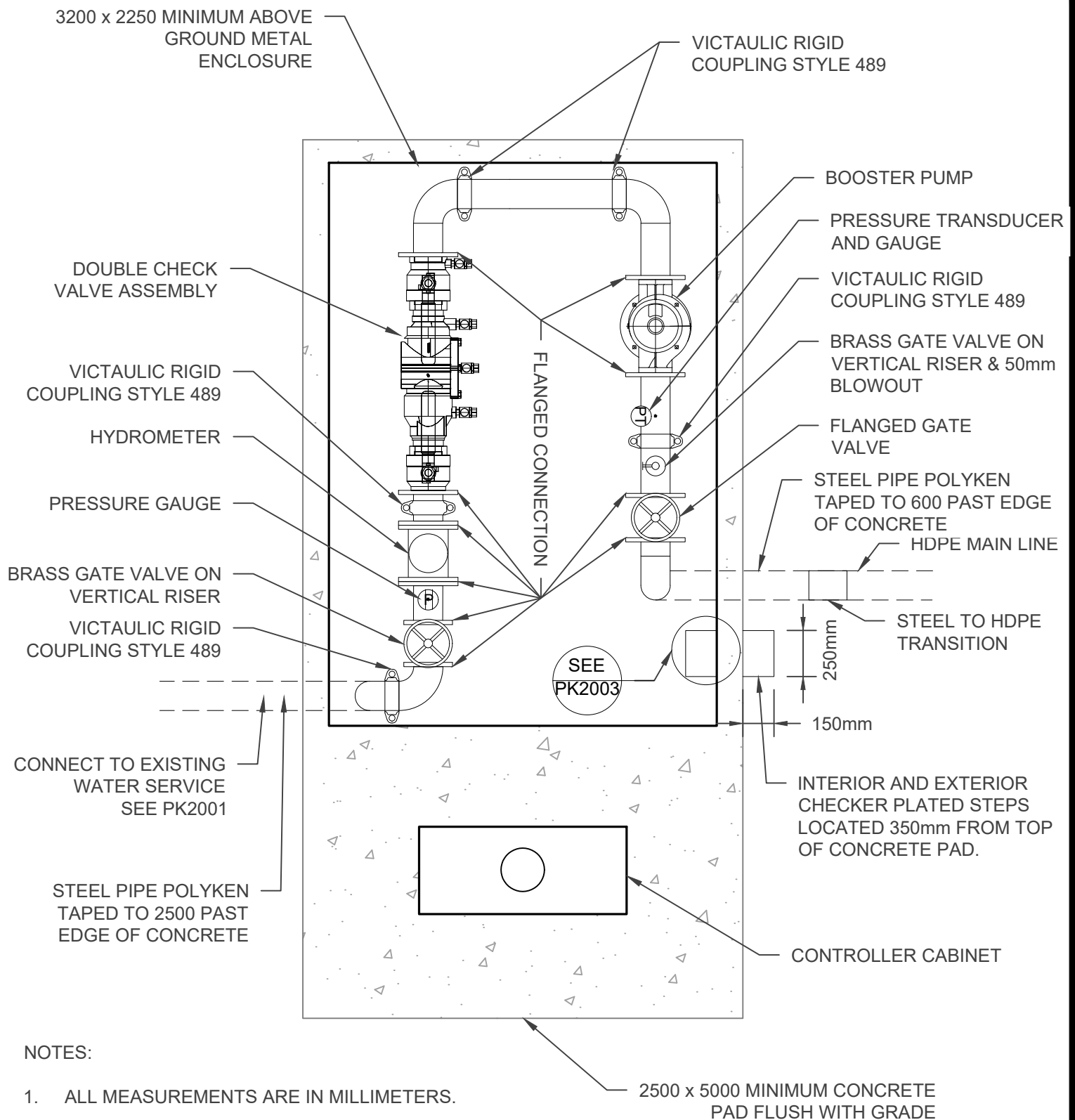
N.T.S.


Drawn:

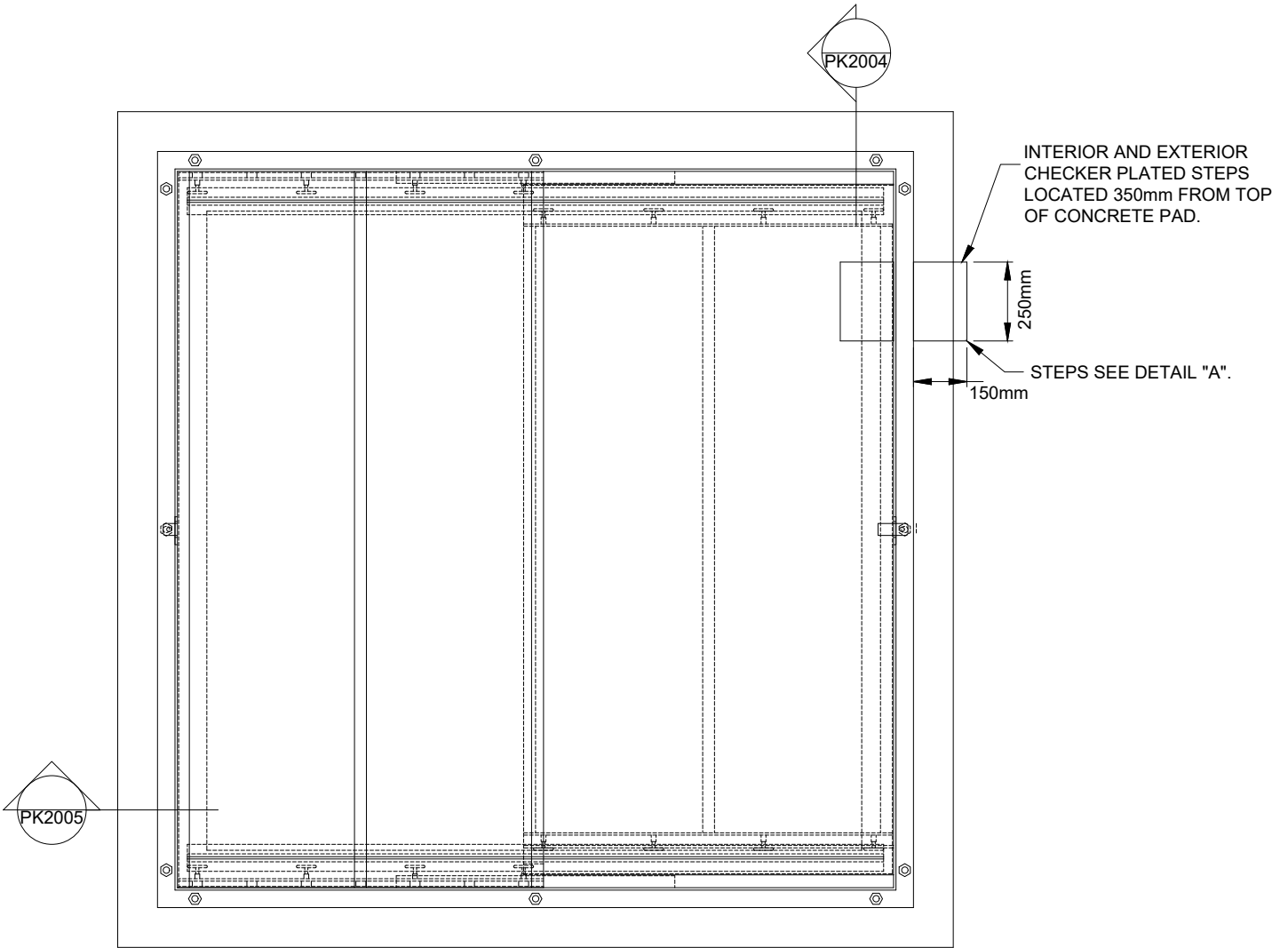
K.G.

Approved:

J.V.

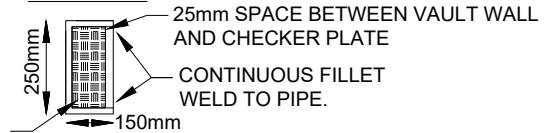


						DATE: Apr. 30, 2024	<div>PARKS & RECREATION</div> <div>Medicine Hat The Gas City</div>	TITLE: WATER SERVICE WITH BOOSTER PUMP PLAN VIEW
						SCALE: N.T.S.		
						DRAWN: K.G.		
						APPROVED: J.V.		
1.	24	04	01	UPDATED DRAWING	K P			
No	YY	MM	DD	REVISION DESCRIPTION	BY			



EXTERIOR PLAN


DETAIL "A"

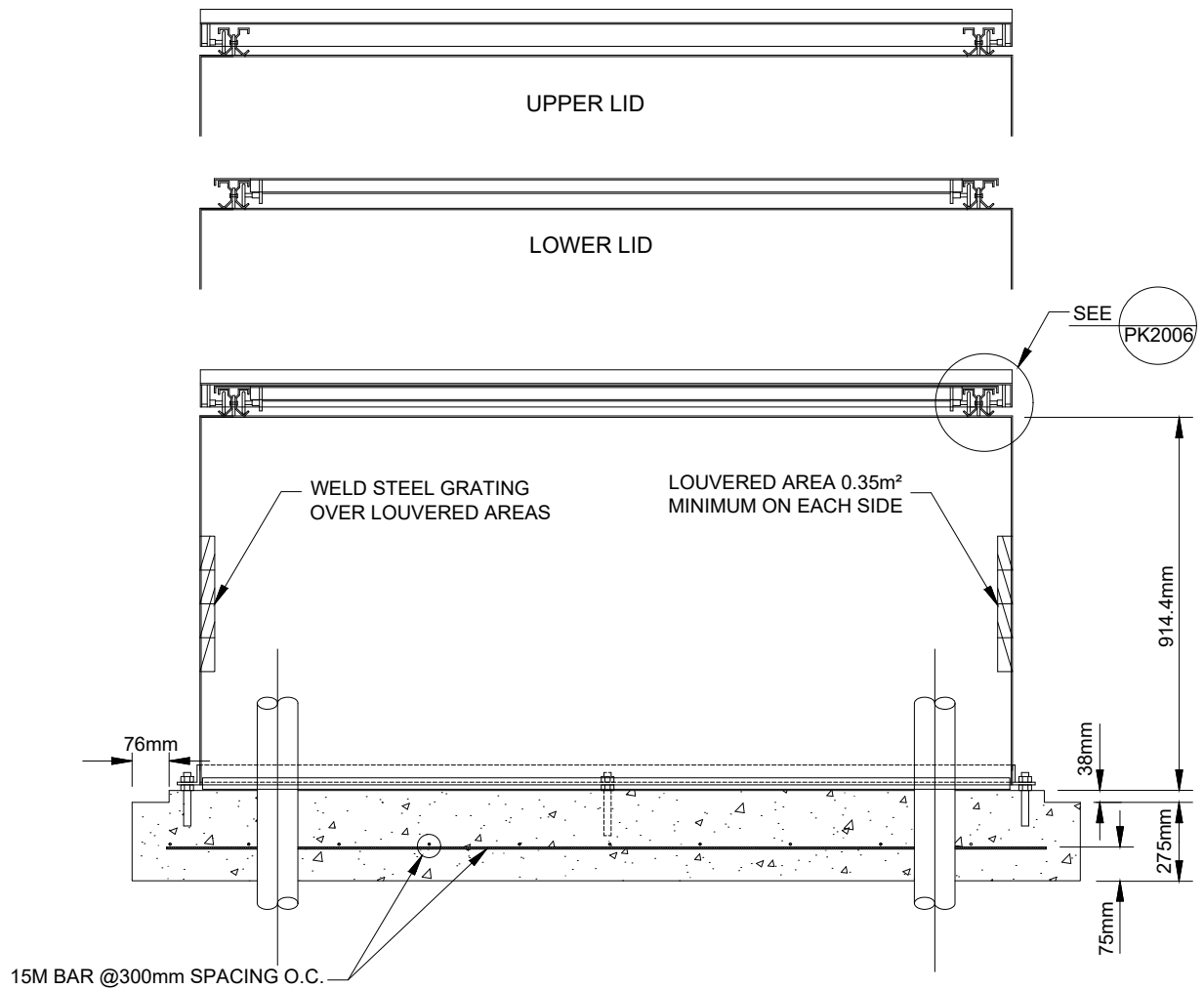


CHECKER PLATE

NOTES


- 1.) ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH. PAINT ENCLOSURE AND PEDESTAL WITH 2 COATS ASA 61 GREEN URETHANE PAINT, INSIDE AND OUTSIDE SURFACES.

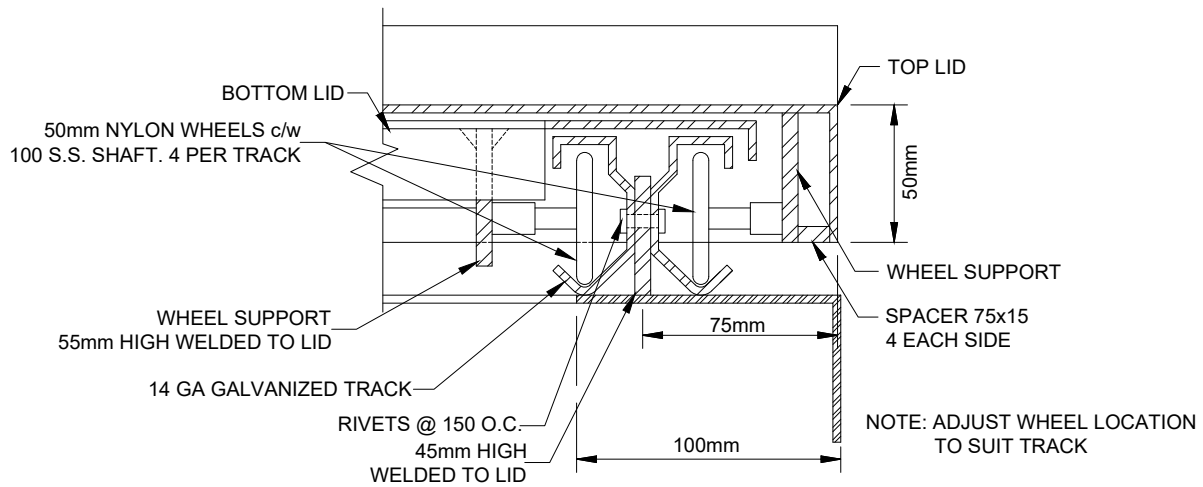
						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div> Medicine Hat The Gas City</div>	TITLE: BOOSTER PUMP STATION PLAN VIEW	
						SCALE:	N.T.S.			
2.	24	04	01	Updated Drawing	KG	DRAWN:	K.G.			
1.	20	04	01	Updated Drawing	BS	APPROVED:	J.V.			
No	YY	MM	DD	REVISION DESCRIPTION	BY				DWG No.: PK2003	Rev.: 2
DATE										



NOTES


- 1.) ORIENTATION OF BOOSTER PUMP STATION TO BE CONFIRMED WITH THE ENGINEER.
- 2.) DOOR AND WALLS TO BE 10 GAUGE STEEL PLATE.
- 3.) INSTALL GROUND ROD AND WIRE AS PER SPECIFICATIONS.
- 4.) ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH. PAINT ENCLOSURE AND PEDESTAL WITH 2 COATS.
- 5.) STEEL MESH IS TO BE WELDED TO THE BOTTOM OF THE CABINET TO PREVENT DEBRIS AND CRITTERS FROM ENTERING CABINET.
- 6.) 2 COATS ASA 61 GREEN URETHANE PAINT, INSIDE AND OUTSIDE SURFACES.
- 7.) MANUFACTURERS NAME TO BE WELDED/BRAZED ON OUTSIDE OF WALL.

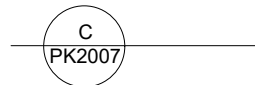
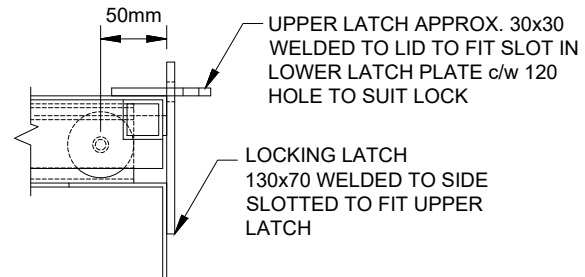
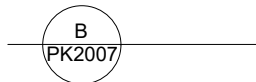
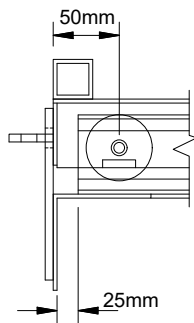
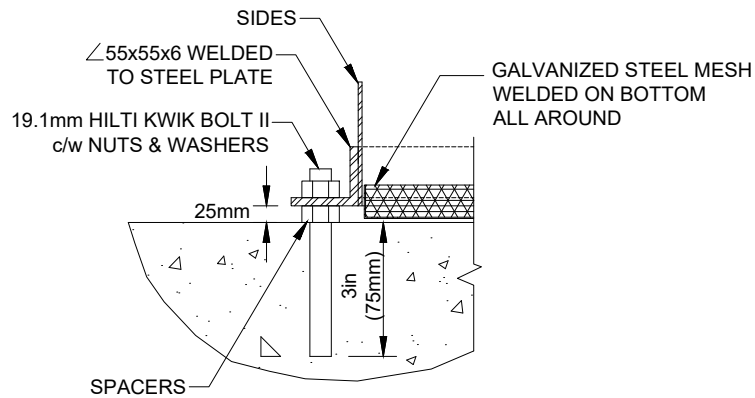
						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div>Medicine Hat The Gas City</div>	TITLE: BOOSTER PUMP STATION SECTION VIEW
						SCALE:	N.T.S.		
2.	24	04	01	Updated Drawing	KG	DRAWN:	K.G.		
1.	20	04	01	Updated Drawing	BS	APPROVED:	J.V.		
No	YY	MM	DD	REVISION DESCRIPTION	BY			DWG No.: PK2004	Rev.: 2
	DATE								



NOTES


- 1.) ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH. PAINT EXPOSURE AND PEDESTAL WITH 2 COATS ASA 61 GREEN URETHANE PAINT, INSIDE AND OUTSIDE SURFACES.

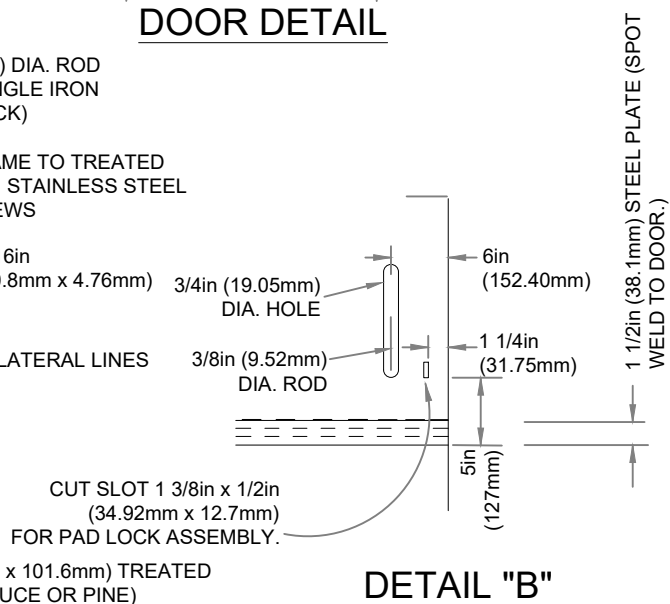
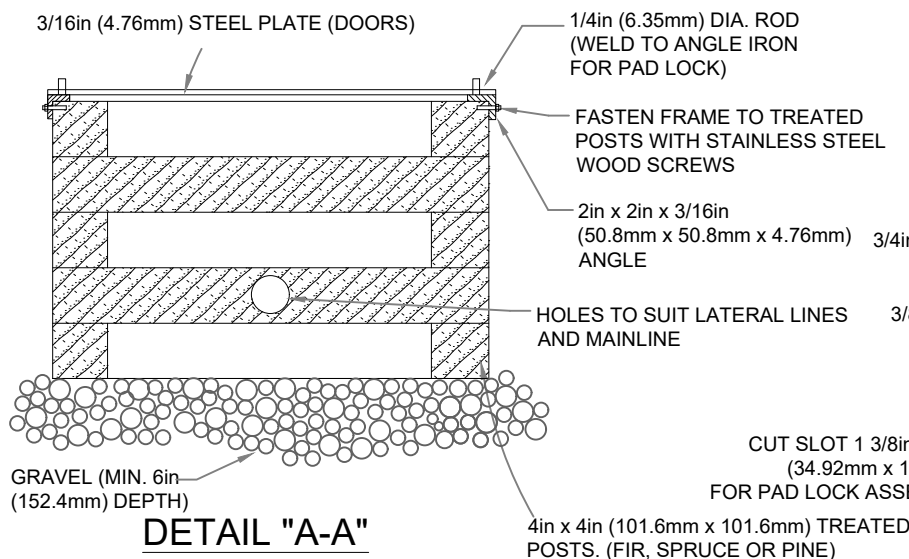
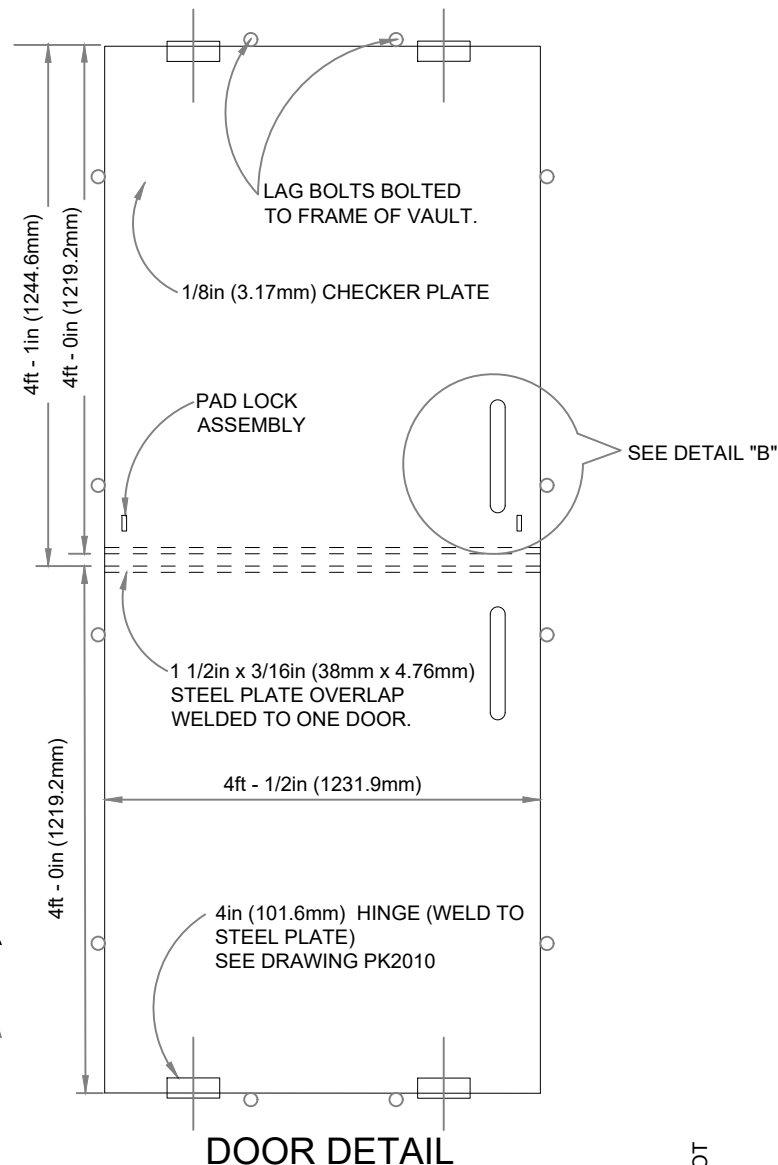
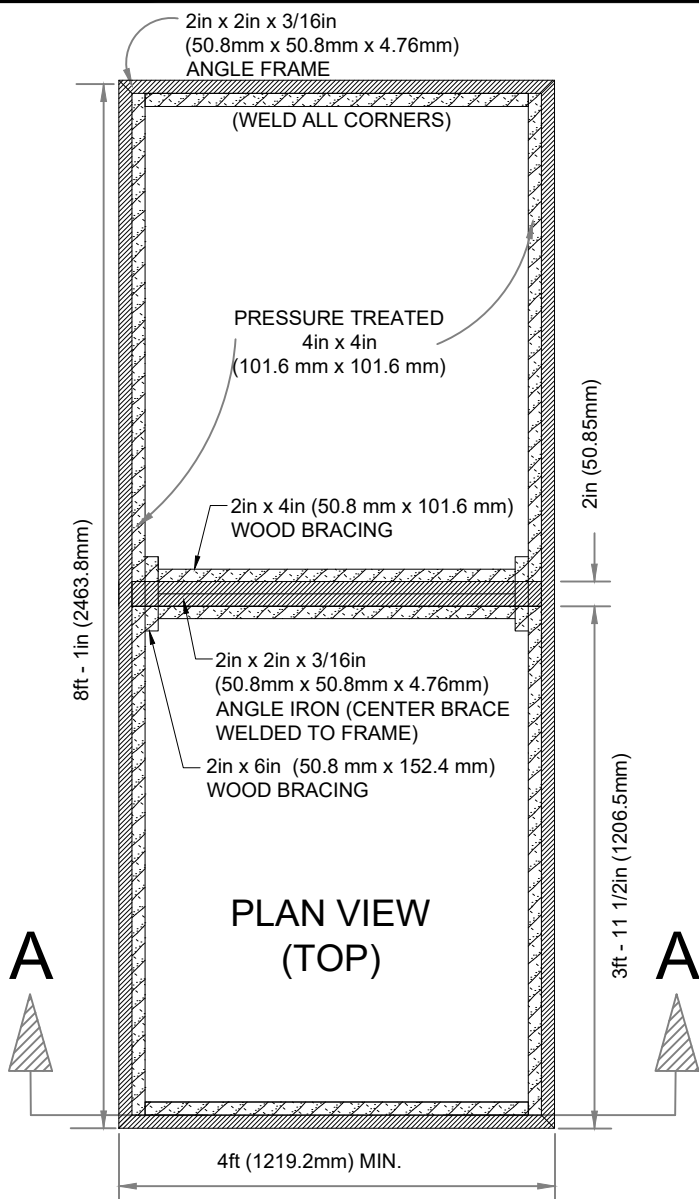
						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div>Medicine Hat The Gas City</div>	TITLE: BOOSTER PUMP STATION ROLLER WHEEL DETAILS
						SCALE:	N.T.S.		
2.	24	04	01	Updated Drawing	KG	DRAWN:	K.G.		
1.	20	04	01	Updated Drawing	BS	APPROVED:	J.V.		
No	YY	MM	DD	REVISION DESCRIPTION	BY			<div>DWG No.: PK2006</div> <div>Rev.: 2</div>	
	DATE								




NOTES

- 1.) ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH. PAINT EXPOSURE AND PEDESTAL WITH 2 COATS ASA 61 GREEN URETHANE PAINT, INSIDE AND OUTSIDE SURFACES.

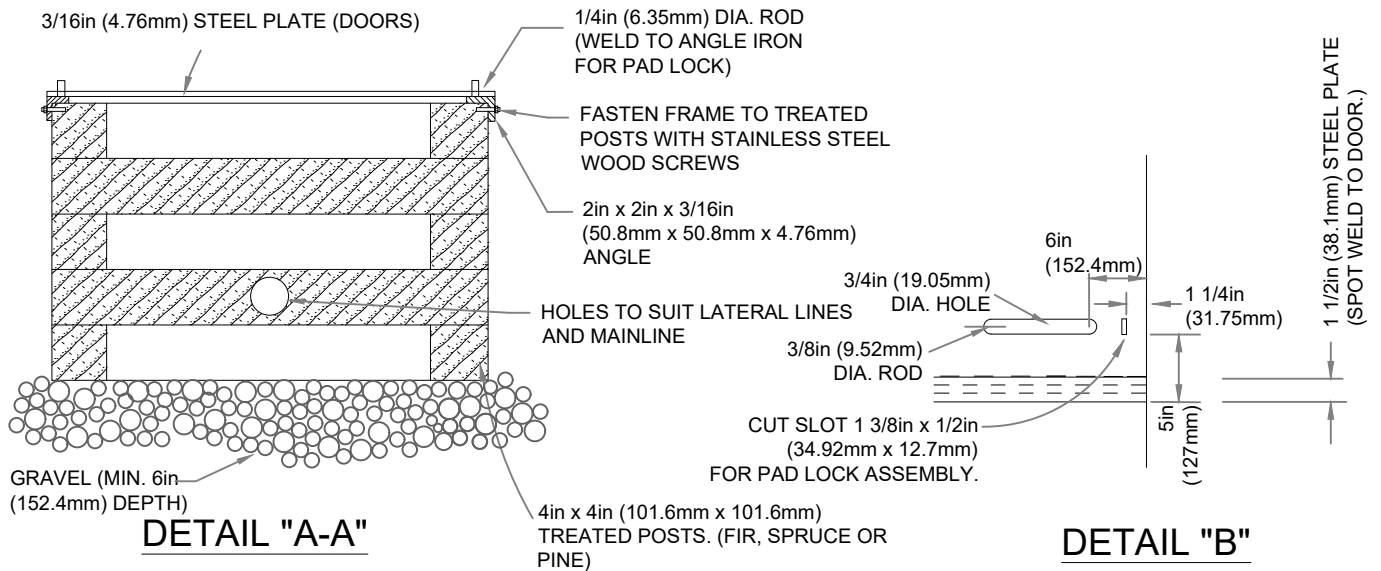
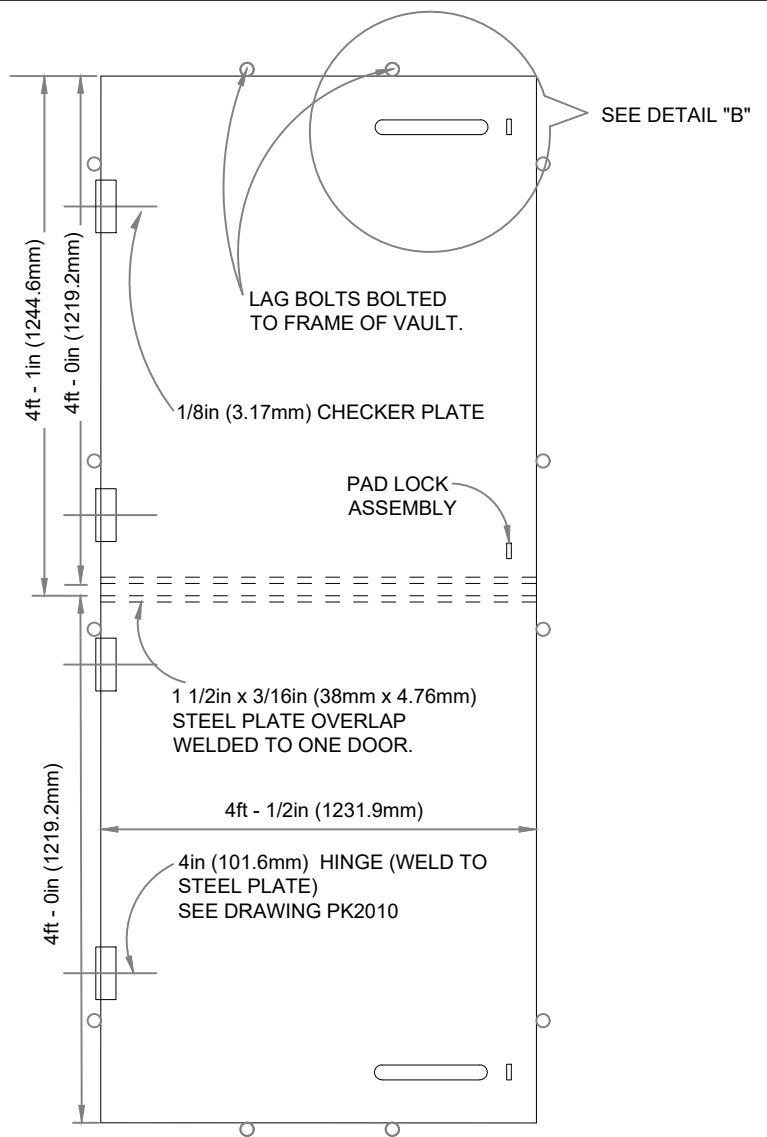
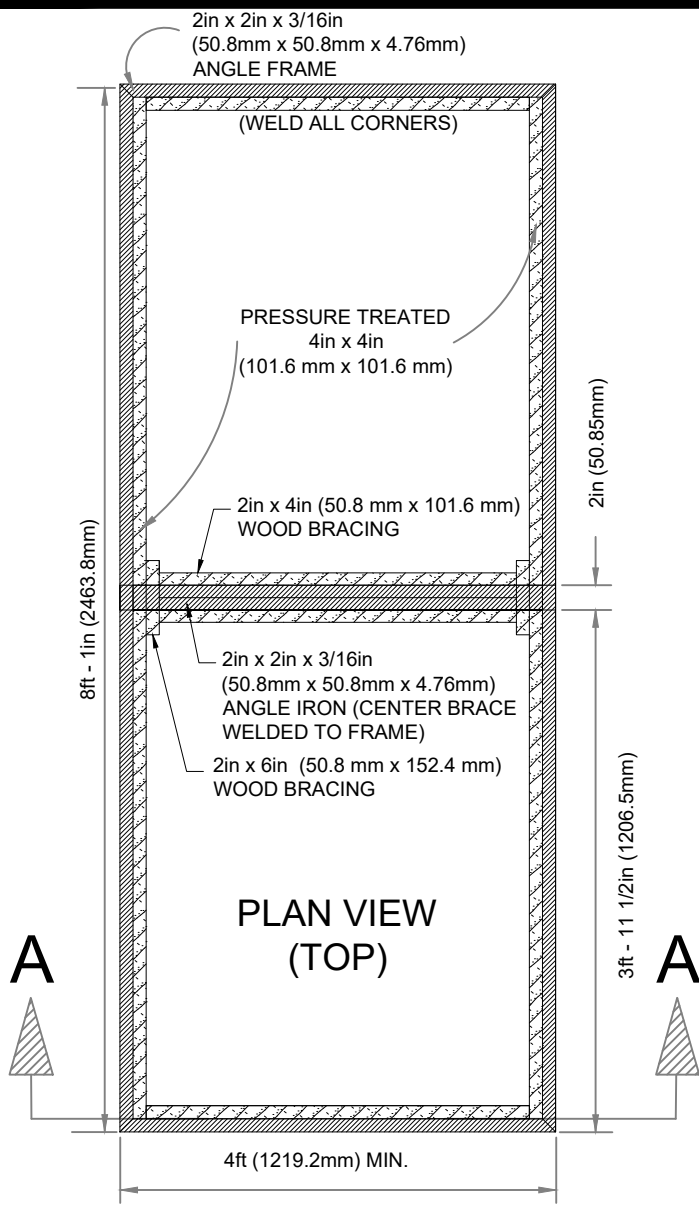
						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div>Medicine Hat The Gas City</div>	TITLE: BOOSTER PUMP STATION CONNECTIONS DETAILS
						SCALE:	N.T.S.		
2.	24	04	01	Updated Drawing	KG	DRAWN:	K.G.		
1.	20	04	01	Updated Drawing	BS				
No	YY	MM	DD	REVISION DESCRIPTION	BY	APPROVED:	J.V.		
	DATE								




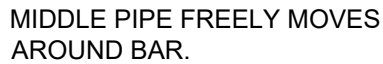
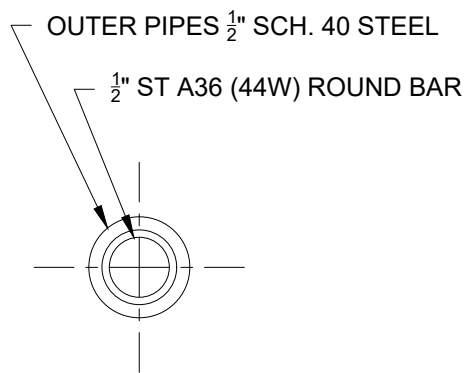
						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div>Medicine Hat The Gas City</div>	TITLE: IRRIGATION WATER SERVICE VAULT FOR A TYP. 2 INCH SERVICE (END HINGED)
3.	24	04	01	Updated Drawing	KG	SCALE:	N.T.S.		
2.	20	04	01	Updated Drawing	BS	DRAWN:	K.G.		
1.	16	06	06	Edited measurement for imperial	AB	APPROVED:	J.V.		
No	YY	MM	DD	REVISION DESCRIPTION	BY			DWG No.: PK2008	Rev.: 3


 DWG No.: **PK2008**

 Rev.: **3**

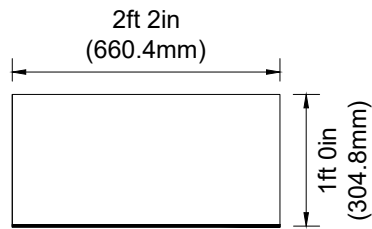


						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div></div>	TITLE: IRRIGATION WATER SERVICE VAULT FOR A TYP. 2 INCH SERVICE (SIDE HINGED)
3.	24	04	01	Updated Drawing	KG	SCALE:	N.T.S.		
2.	20	04	01	Updated Drawing	BS	DRAWN:	K.G.		
1.	16	06	06	Edited measurement for imperial	AB	APPROVED:	J.V.		
No	YY	MM	DD	REVISION DESCRIPTION	BY				
	DATE							DWG No.: PK2009	Rev.: 3

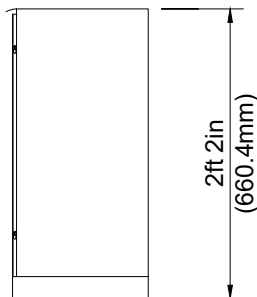


						DATE:	Apr. 30, 2024		TITLE: IRRIGATION WATER SERVICE VAULT HINGE DETAIL
						SCALE:	N.T.S.		
						DRAWN:	K.G.		
1.	24	04	01	Updated Drawing		KG			
No	YY	MM	DD	REVISION DESCRIPTION		BY	APPROVED:	J.V.	DWG No.: PK2010 Rev.: 1
	DATE								

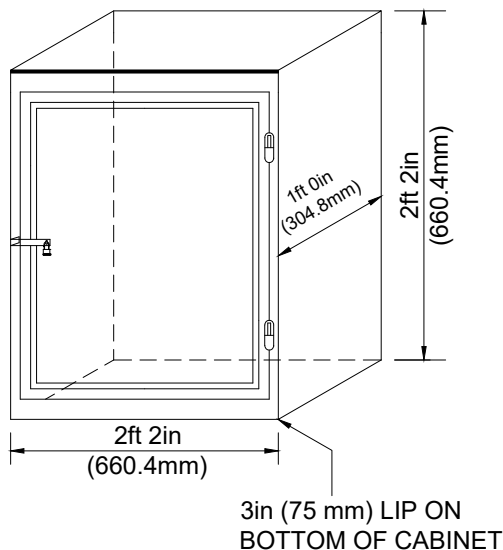
TOP VIEW



SIDE VIEW



FRONT VIEW




SIZES

2ft 2in (660.4 mm) WIDE
2ft 2in (660.4 mm) HEIGHT
1ft 0in (304.8 mm) DEEP

NOTES:

1. GREEN POWDER COATED METAL CABINET. COLOR TO BE APPROVED BY CITY PRIOR TO FABRICATION.
2. CABINET SHALL BE FITTED WITH SINGLE DOOR MOUNTED ON PIN HINGES.
3. CABINET TO BE WEATHERPROOF LOCKABLE (LOCK TO BE SUPPLIED CITY OF MEDICINE HAT).
4. CLOSURE BRACKETS, HINGE ATTACHMENTS, AND PLYWOOD MOUNTS ARE TO BE WELDED FROM THE INSIDE.
5. EXTERIOR OF CABINET SHALL BE SMOOTH AND ROUNDED WITH NO PROTRUSIONS OR SHARP EDGES.
6. ANY POINT OF ENTRY INTO CABINET WALL SHALL BE SEALED WITH A WATERPROOF SEALER.
7. BUILDING MOUNT 14 GAUGE.
8. 14 GAUGE STEEL CONSTRUCTION.
10. SUGGESTED MANUFACTURER: ACE MANUFACTURING METALS LTD.
11. CROSSROKE DRIPHOOD.
12. 3/4in (19.05mm) GS1 FIR PLYWOOD BACKPAN.
13. INSTALL STAINLESS STEEL BREATHER DRAIN FOR MOISTURE DRAINAGE ON CABINET BOTTOM.

						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div>Medicine Hat The Gas City</div>	TITLE: SMALL IRRIGATION CONTROLLER CABINET
4.	24	04	01	Updated Drawing	KG	SCALE:	N.T.S.		
3.	20	04	01	Updated Drawing	BS	DRAWN:	K.G.		
2.	16	06	06	Edited measurement for imperial	AB	APPROVED:	J.V.		
1.	09	04	14	Removed Scorpio wording	TR				
No	YY	MM	DD	REVISION DESCRIPTION	BY				
	DATE								DWG No.: PK2011

Technical drawing of a rectangular plate with the following specifications:

- Overall Dimensions:**
 - Width: 2 ft 0 in (609.6 mm)
 - Height: 1 ft 6 in (457.2 mm)
- Internal Features:**
 - A central circular hole with a diameter of 3/8 in (9.52 mm).
 - A smaller circular hole located to the right of the center, with a diameter of 3/8 in (9.52 mm).
 - A vertical slot on the right side, with a width of 10 in (254 mm).
 - A horizontal slot at the bottom, with a width of 1 ft 4 in (406.4 mm).
- Section Lines:**
 - Section line A-A is indicated at the top and bottom edges.
 - Section line Q-Q is indicated through the center of the plate.

DETAIL "A-A"

3ft 0in (914.4mm)

2% for 1.0m GRADE

1ft 6in (457.2mm)

4in (101.6mm) DIA. STEEL PIPE

1 1/2in (38.1mm) DIA. STEEL PIPE

1/4in (6.35mm) THICK STEEL PLATE

4in (100mm) DIA. WELDED 90° ELBOW


1 1/2in (38mm) DIA. WELDED 90° ELBOW

DEPTH OF 3ft 0in (914.4mm)

NOTES:

1. 4in (100mm) STEEL PIPE TO BE USED FOR IRRIGATION WIRING.
2. 1 1/2in (38mm) STEEL PIPE TO BE USED ONLY FOR ELECTRIC POWER SUPPLY CABLE.
3. TACK WELD BOTH STEEL PIPES TOGETHER.
4. PEDESTAL POWDER COATED METAL GREEN IN COLOR.
5. CUT HOLES IN STEEL PLATE TO SUIT STEEL PIPE.
6. SEE CAST IN PLACE CONCRETE SPECIFICATION.
7. SEE PK2013 FOR CONCRETE PAD DETAIL.

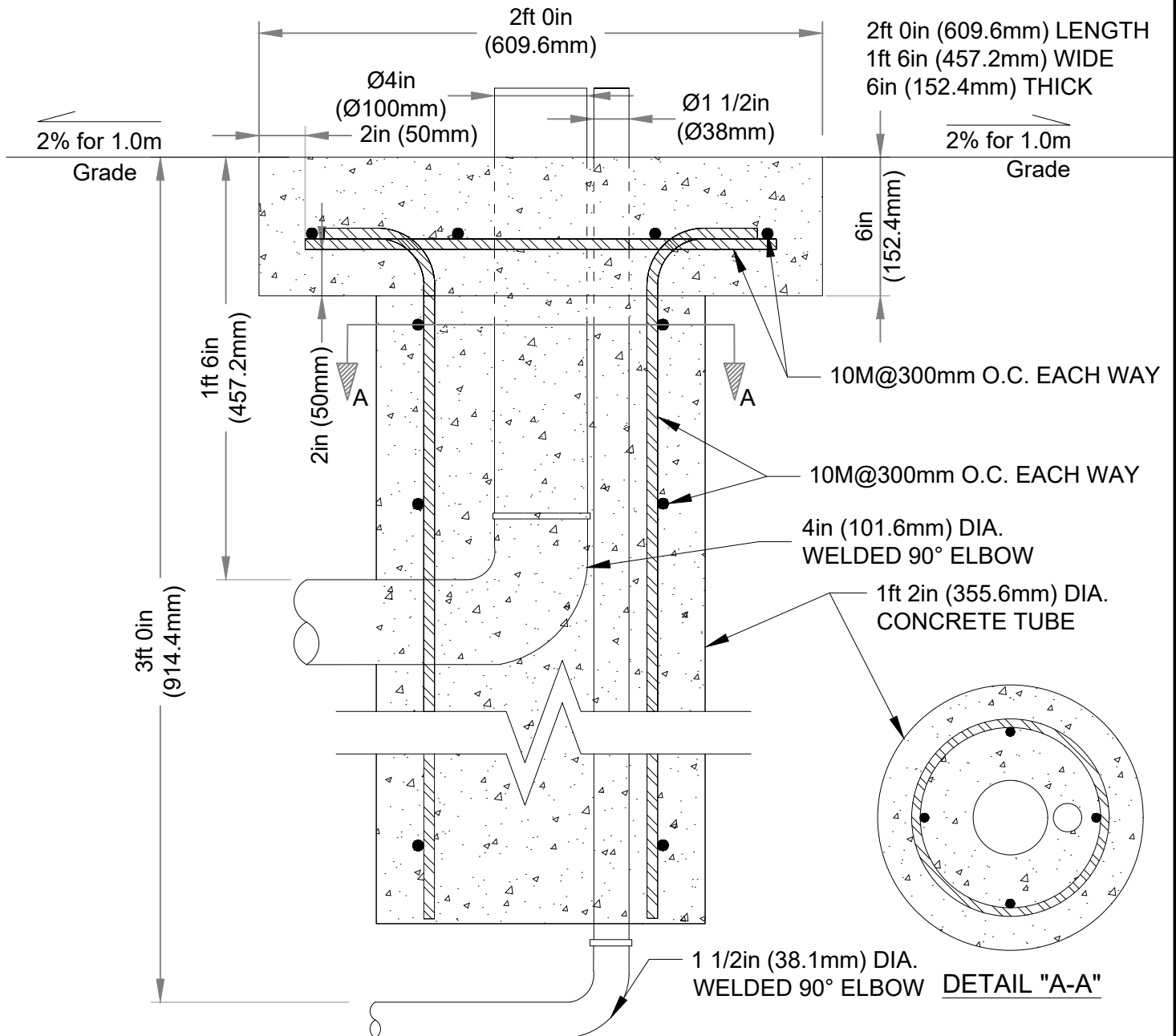
1. 4in (100mm) STEEL PIPE TO BE USED FOR IRRIGATION WIRING.
2. 1 1/2in (38mm) STEEL PIPE TO BE USED ONLY FOR ELECTRIC POWER SUPPLY CABLE.
3. TACK WELD BOTH STEEL PIPES TOGETHER.
4. PEDESTAL POWDER COATED METAL GREEN IN COLOR.
5. CUT HOLES IN STEEL PLATE TO SUIT STEEL PIPE.
6. SEE CAST IN PLACE CONCRETE SPECIFICATION.
7. SEE PK2013 FOR CONCRETE PAD DETAIL.

						DATE:	Apr. 30, 2024		TITLE: SMALL CONTROLLER CABINET PEDESTAL
4.	24	04	01	Updated Drawing	KG	SCALE:	N.T.S.		
3.	20	04	01	Updated Drawing	BS	DRAWN:	K.G.		
2.	16	06	06	Edited measurement for imperial	AB	APPROVED:	J.V.		
1.	09	04	14	Changed Title Name	TR				
No	YY	MM	DD	REVISION DESCRIPTION	BY				DWG No.: PK2012 Rev.: 4

NOTES:

1. SIZE OF CABINET:
- CONTRACTOR TO CONFIRM CABINET DIMENSIONS PRIOR TO FABRICATING CONCRETE PAD.
- PAD DIMENSIONS TO VARY TO SUIT CABINET DIMENSIONS.
2. CABINET TO BE CUT AROUND THE CONDUIT.
3. CONCRETE TO BE BROOM FINISHED.
4. ALL EDGES OF THE PAD TO BE BEVELED.
5. SEE CAST IN PLACE CONCRETE SPECIFICATION (SECTION - 03300).
6. ALL CONDUITS TO EXTEND 1FT 0IN(304.8MM) PAST EDGE OF CONCRETE.

CONCRETE PAD:




						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div>Medicine Hat The Gas City</div>	TITLE: CONCRETE PAD FOR SMALL IRRIGATION CONTROLLER CABINET
						SCALE:	N.T.S.		
2.	24	04	01	UPDATED DRAWING	KG	DRAWN:	K.G.		
1.	16	06	06	Edited measurements for Imperial	AB	APPROVED:	J.V.		
No	YY	MM	DD	REVISION DESCRIPTION		BY			DWG No.: PK2013
	DATE								Rev.: 2


Diagram of a rectangular panel with dimensions 3ft 0in (914.4mm) by 1ft 4in (406.4mm). The panel is shown in perspective, with a thick black line along the bottom edge. A dimension line above the panel indicates a width of 3ft 0in (914.4mm). A dimension line to the right of the panel indicates a height of 1ft 4in (406.4mm).

Technical drawing of a rectangular panel. The dimensions are indicated as 1 ft 4 in (406.4mm) for the width and 3 ft 8 in (1117.6mm) for the height.

Diagram of a cabinet with dimensions and mounting instructions:

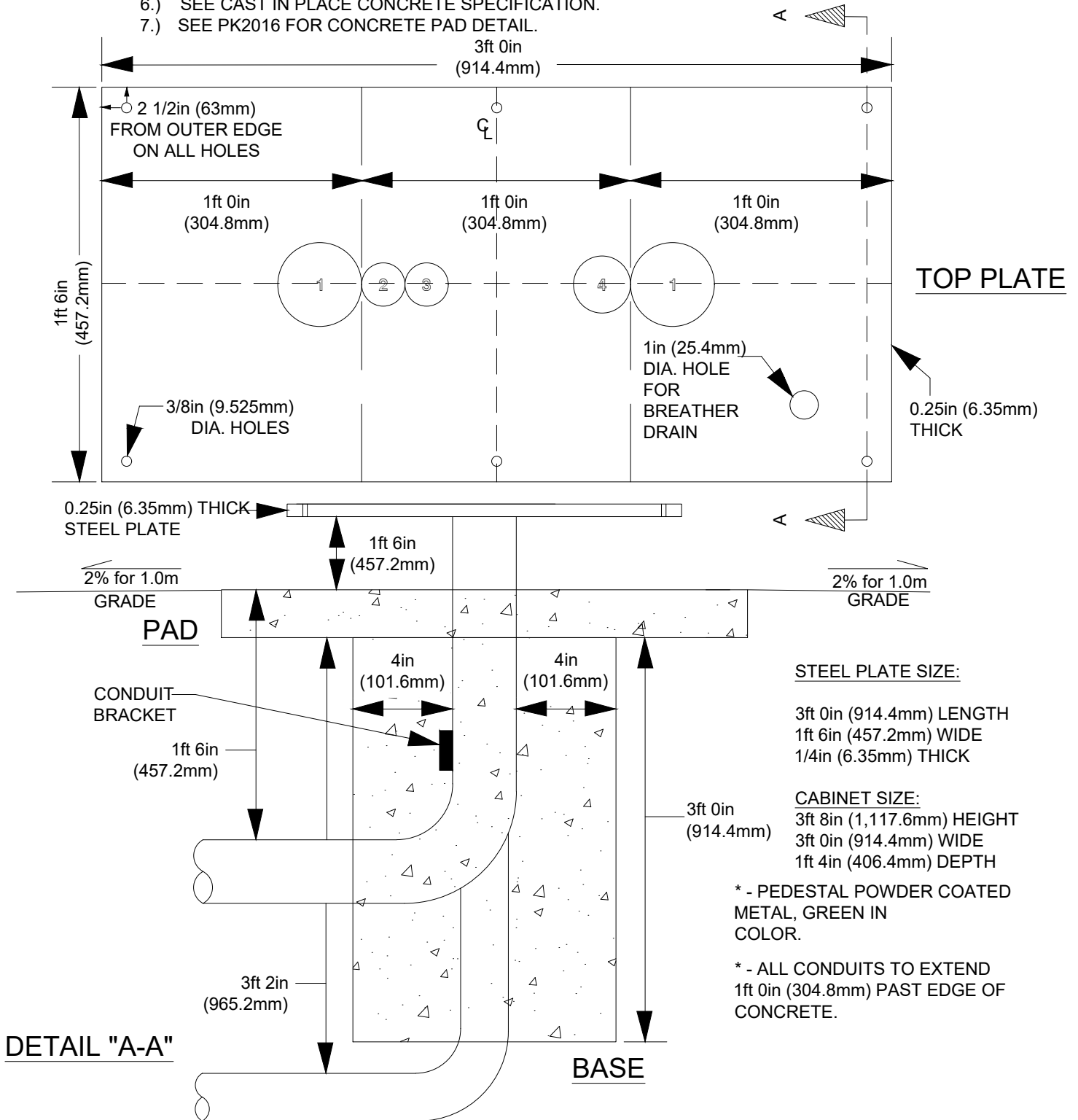
- Overall width: 3ft 0in (914.4mm)
- Overall height: 3ft 8in (1117.6mm)
- Mounting height: 1ft 4in (406.4mm) from the bottom edge.
- Mounting location: 3in (75mm) UP ON BOTTOM OF CABINET.

- 1.) GREEN POWDER COATED METAL CABINET. COLOR TO BE APPROVED BY CITY PRIOR TO FABRICATION.
- 2.) CABINET SHALL BE FITTED WITH SINGLE DOOR MOUNTED ON PIN HINGES.
- 3.) CABINET TO BE WEATHERPROOF AND LOCKABLE (LOCK TO BE SUPPLIED BY CITY OF MEDICINE HAT).
- 4.) CLOSURE BRACKETS, HINGE ATTACHMENTS, AND PLYWOOD MOUNTS ARE TO BE WELDED FROM THE INSIDE.
- 5.) EXTERIOR OF CABINET SHALL BE SMOOTH AND ROUNDED WITH NO PROTRUSIONS OR SHARP EDGES.
- 6.) ANY POINT OF ENTRY INTO CABINET WALL SHALL BE SEALED WITH A WATERPROOF SEALER.
- 7.) 14 GAUGE STEEL CONSTRUCTION.
- 8.) CROSSBRED DRIPHOOD.
- 9.) 3/4in (19.05mm) GS1 FIR PLYWOOD BACKPAN.
- 10.) INSTALL STAINLESS STEEL BREATHER DRAIN FOR MOISTURE DRAINAGE ON CABINET BOTTOM.

						DATE:	Apr. 30, 2024		PARKS & RECREATION	TITLE: LARGE IRRIGATION COMMUNICATION CONTROLLER CABINET
4.	24	04	01	Updated Drawing	KG	SCALE:	N.T.S.			
3.	20	01	03	Updated Drawing	BS	DRAWN:	K.G.			
2.	16	06	06	Edited measurement for imperial	AB	APPROVED:	J.V.			
1.	09	04	14	Removed Irrinet Wording	TR					
No	YY	MM	DD	REVISION DESCRIPTION		BY				DWG No.: PK2014 Rev.: 4

CONDUIT LEGEND:

- 1.) 4in (100mm) O.D. STEEL CONDUITS FOR IRRIGATION ZONE VALVE & HYDROMETER WIRE.
- 2.) 1 1/2in (38mm) O.D. STEEL CONDUIT FOR COMMUNICATION CABLE.
- 3.) 1 1/2in (38mm) O.D. STEEL CONDUIT FOR GROUNDING WIRE (FROM ROD AT SIDE OF PAD).
- 4.) 2in (50mm) O.D. STEEL CONDUIT FOR POWER SUPPLY.
- 5.) CUT PLATE TO MATCH CONDUIT LOCATION AND SIZE.
- 6.) SEE CAST IN PLACE CONCRETE SPECIFICATION.
- 7.) SEE PK2016 FOR CONCRETE PAD DETAIL.



4.	24	04	01	Updated Drawing	KG
3.	20	04	01	Updated Drawing	BS
2.	16	06	06	Edited measurement for imperial	AB
1.	09	04	DD	Changed Title Name	TR
No	YY	MM	DD	REVISION DESCRIPTION	BY
	DATE				

DATE: Apr. 30, 2024

SCALE: N.T.S.

DRAWN: K.G.

APPROVED: J.V.



TITLE:

LARGE CONTROLLER CABINET PEDESTAL

DWG No.: **PK2015**

Rev.: **4**

NOTES:

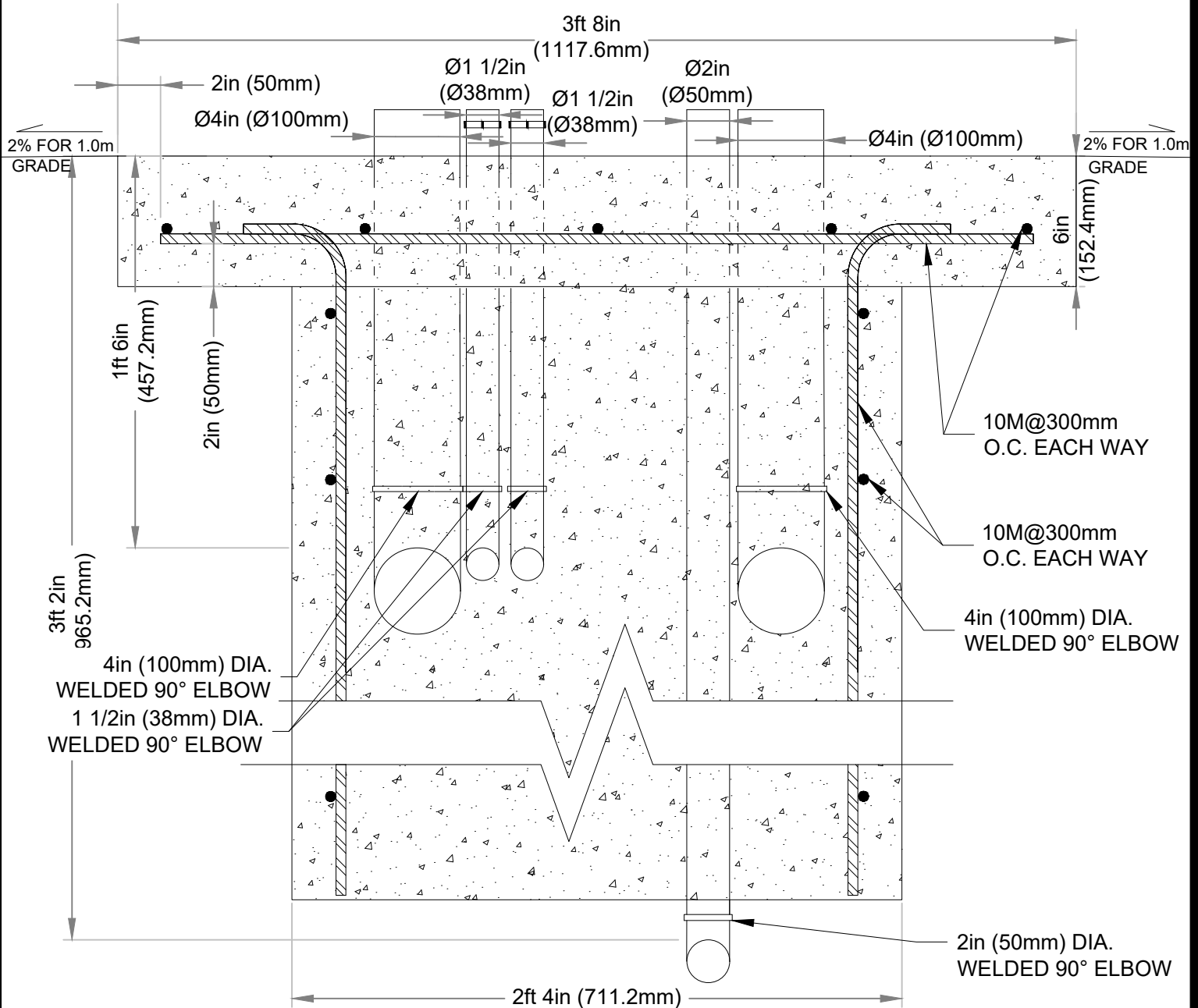
1. SIZE OF CABINET:
- CONTRACTOR TO CONFIRM CABINET DIMENSIONS PRIOR TO FABRICATING CONCRETE PAD.
- PAD DIMENSIONS TO VARY TO SUIT CABINET DIMENSIONS.
2. CABINET TO BE CUT AROUND THE CONDUIT.
3. CONCRETE TO BE BROOM FINISHED.
4. ALL EDGES OF THE PAD TO BE BEVELED.
5. SEE CAST IN PLACE CONCRETE SPECIFICATION (SECTION - 03300).
6. ALL CONDUITS TO EXTEND 1FT 0IN(304.8MM) PAST EDGE OF CONCRETE.


CONCRETE PAD:

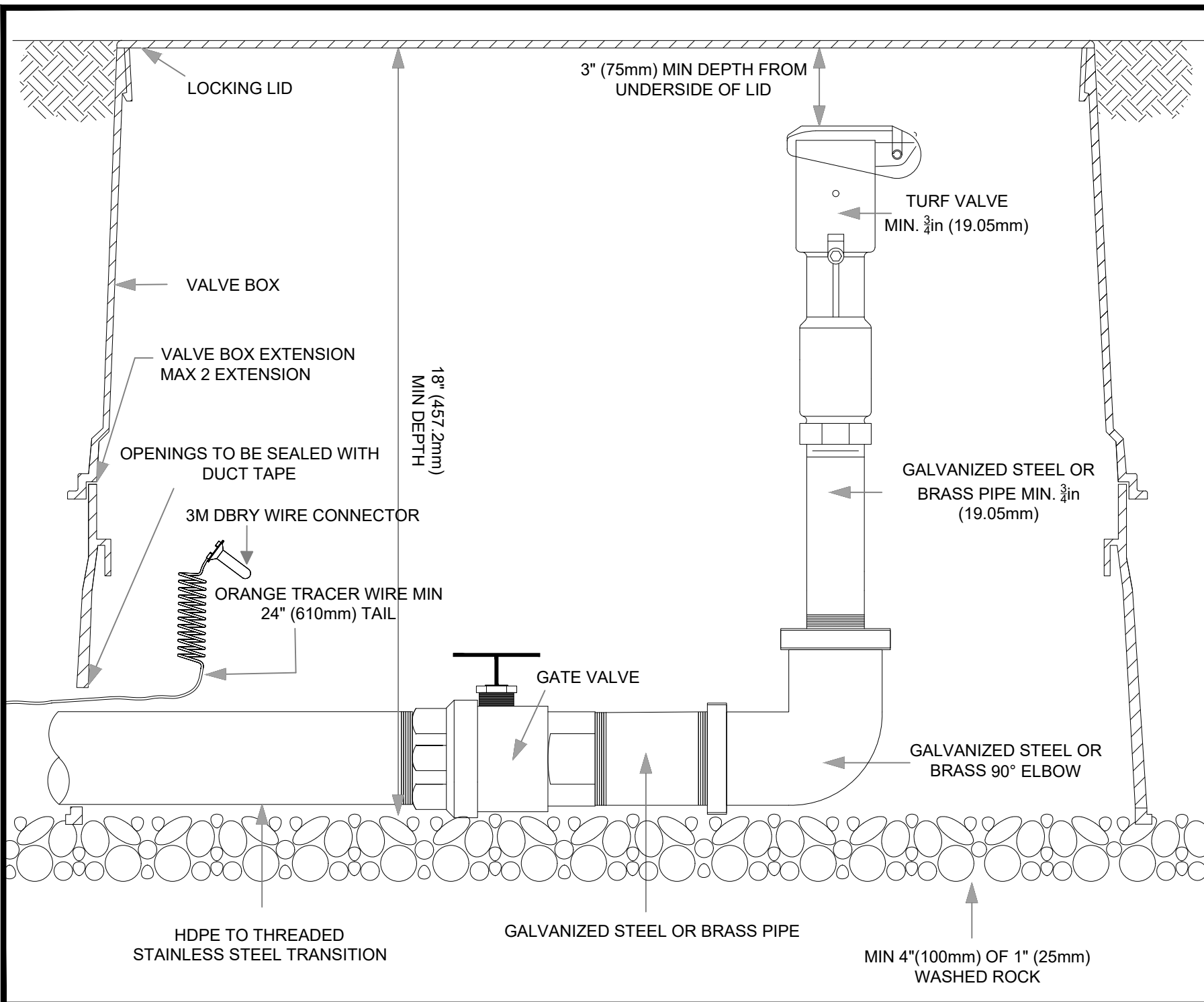
3ft 8in (1117.6mm) LENGTH
2ft 0in (609.6mm) WIDE
6in (152.4mm) THICK

CONCRETE BASE:

2ft 4in (711.2mm) LENGTH
3ft 0in (914.4mm) DEPTH
1ft 4in (406.4mm) WIDE



				DATE: Apr. 30, 2024		PARKS & RECREATION  Medicine Hat The Gas City	TITLE: CONCRETE PAD FOR LARGE IRRIGATION CONTROLLER CABINET
3.	24	04	01	Updated Drawing	KG		
2.	20	04	01	Updated Drawing	BS		
1.	16	06	06	Edited measurements for imperial	AB		
No	YY	MM	DD	REVISION DESCRIPTION		APPROVED: J.V.	DWG No.: PK2016
	DATE				BY		Rev.: 3



General Notes

No.	Revision/Issue	Date
3.	Updated Drawing	2024.04.01
2.	Updated Drawing	2020.04.01
1.	Edited measurements for Imperial	2016.06.06

PARKS
&
RECREATION



IRRIGATION
GATE VALVE
AND QUICK
COUPLER

DWG No.:

PK2017

Date

Apr. 30, 2024

Scale

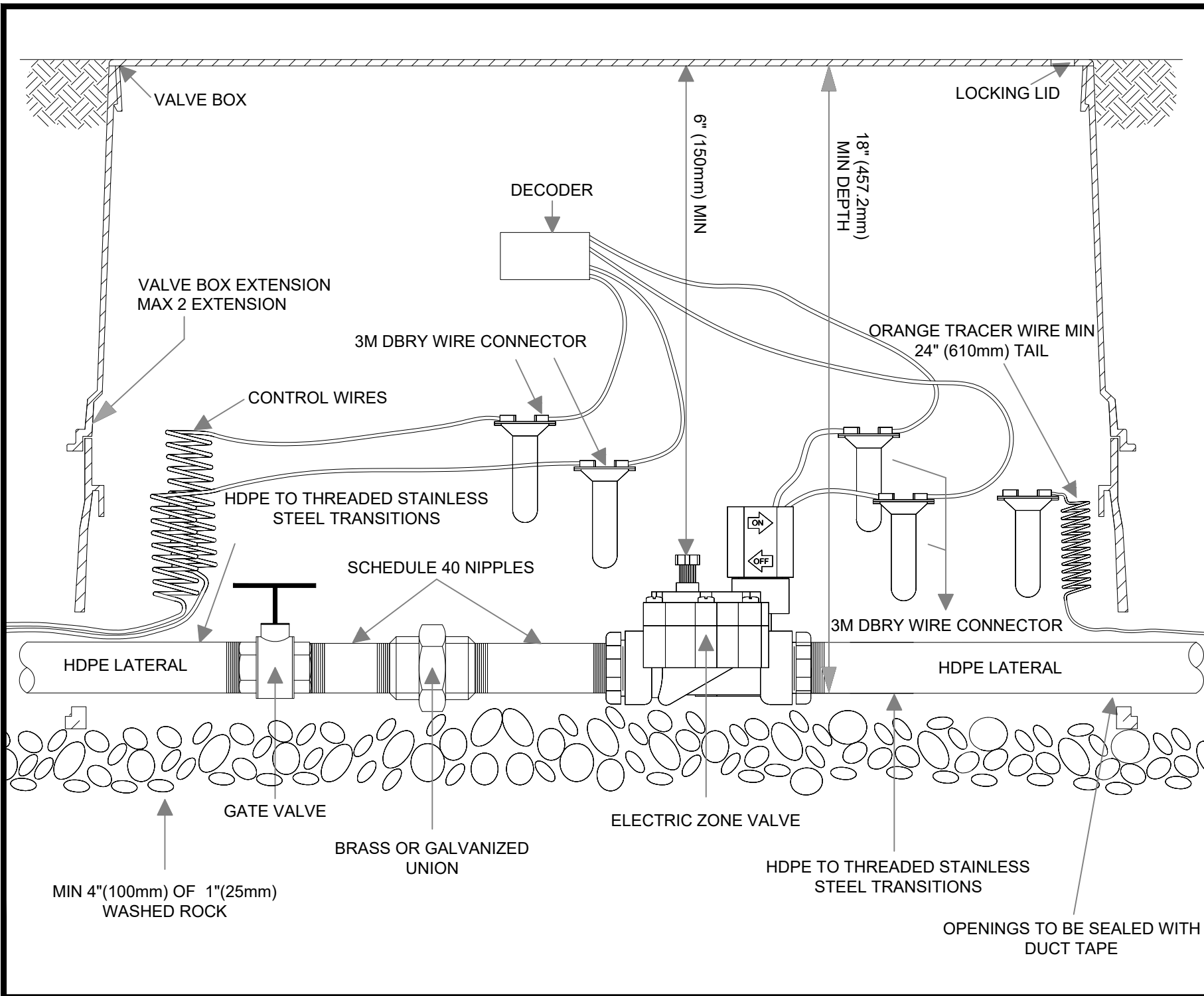
N.T.S.

Drawn

K.G.

Approved

J.V.



General Notes

No.	Revision/Issue	Date
3.	Updated Drawing	2024.04.01
2.	Updated Drawing	2020.04.01
1.	Edited measurements for imperial	2016.06.08

PARKS
&
RECREATION



ELECTRIC VALVE AND GATE VALVE

DWG No.:

PK2018

Date:

Apr. 30, 2024

Scale:

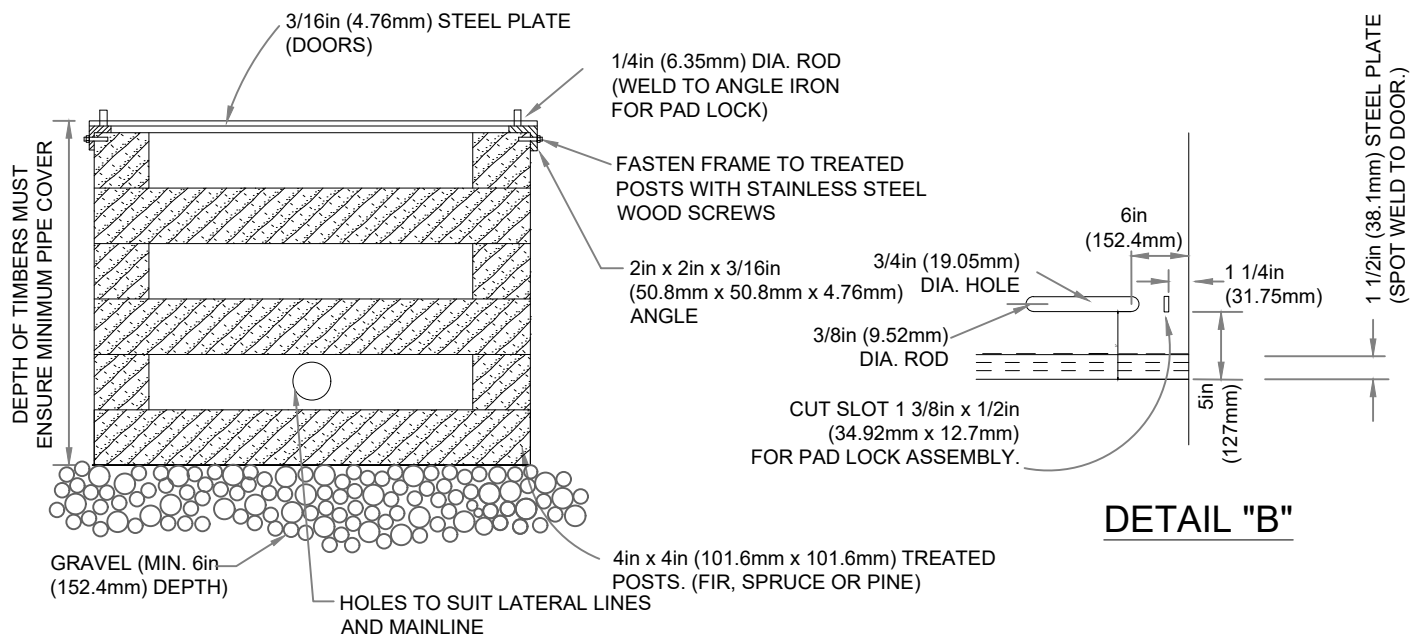
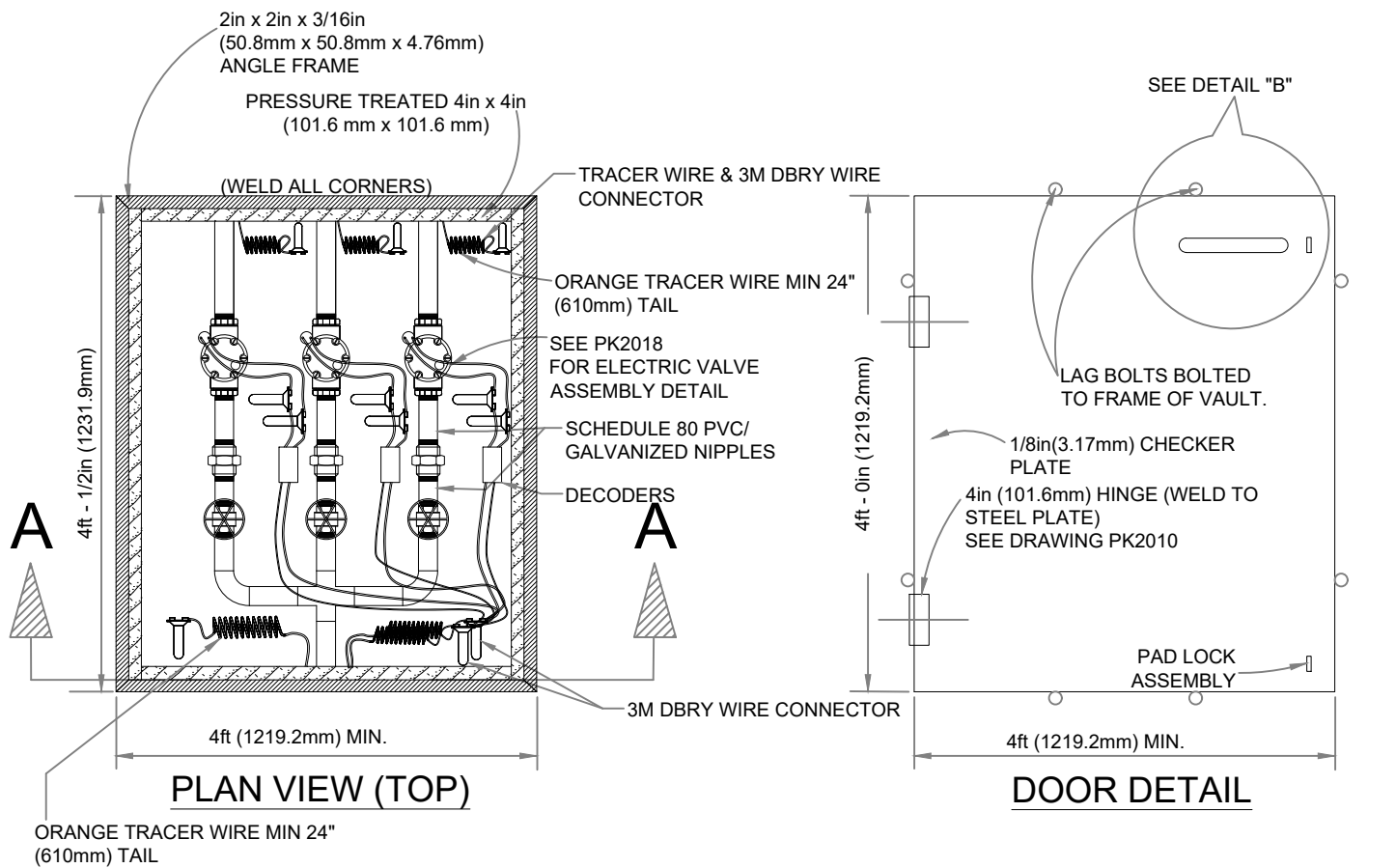
N.T.S.

Drawn:

K.G.


Approved:

J.V.



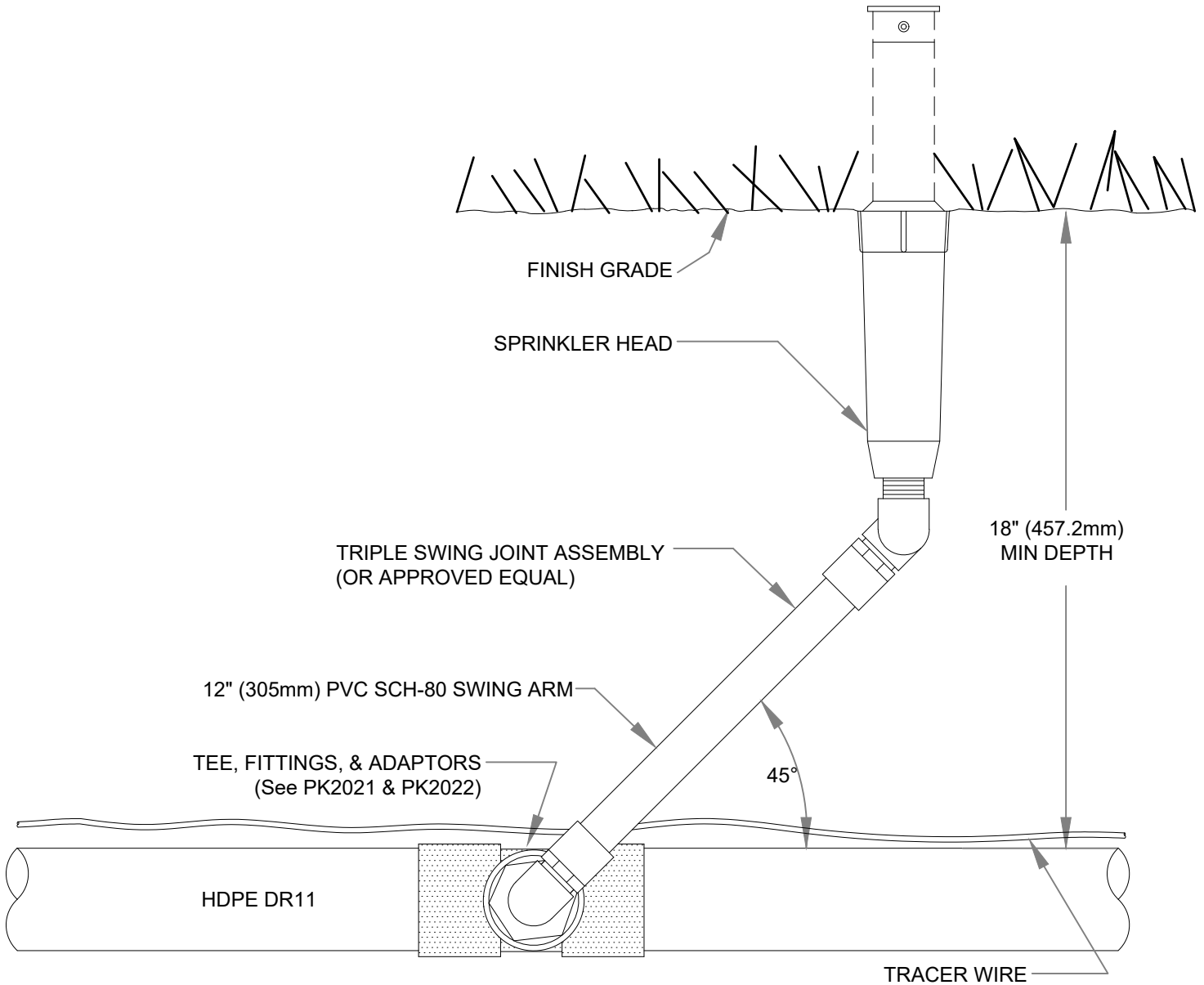
DETAIL "A-A"


DETAIL "B"

						DATE: Apr. 30, 2024	PARKS & RECREATION	TITLE: MULTIPLE GATE VALVE AND ELECTRIC VALVE TIMBER VAULT
						SCALE: N.T.S.		
						DRAWN: K.G.		
1.	24	04	01	Updated Drawing	KG		 Medicine Hat The Gas City	
No	YY	MM	DD	REVISION DESCRIPTION	BY	APPROVED: J.V.		DWG No.: PK2019

NOTES:

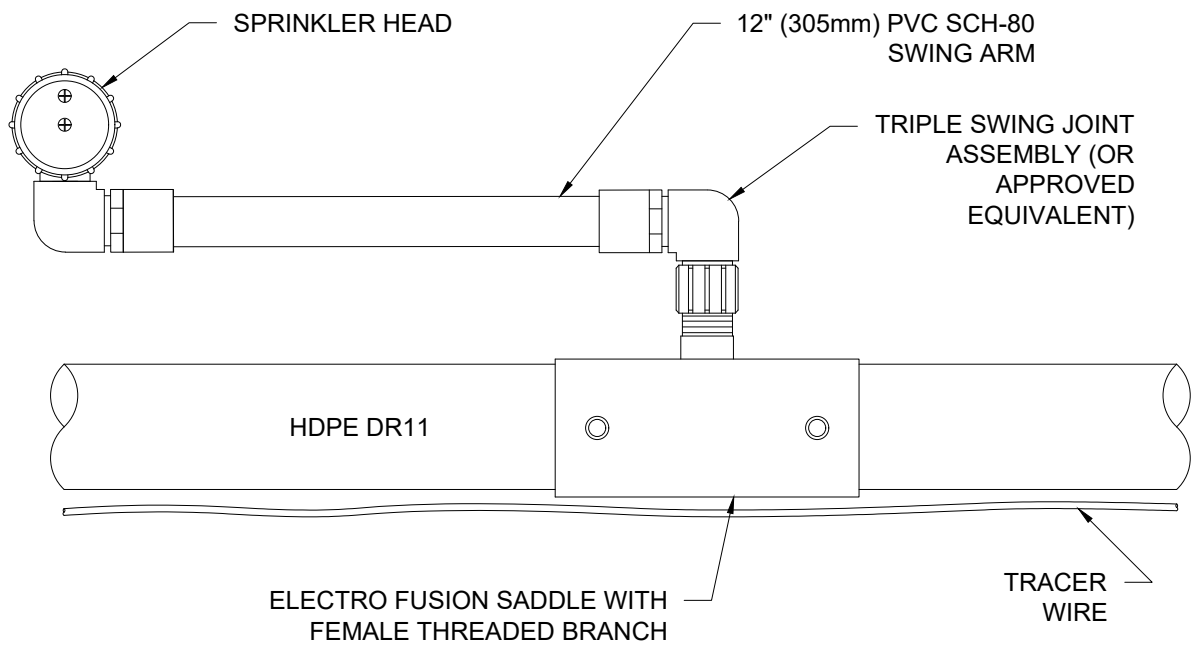
1. HEADS TO BE ADJUSTED SO THEY ARE PLUMB WITH SURFACE.
2. ALL THREADED CONNECTIONS TO HAVE TEFLON TAPE.
3. ALL BENDS TO BE STREET BENDS.




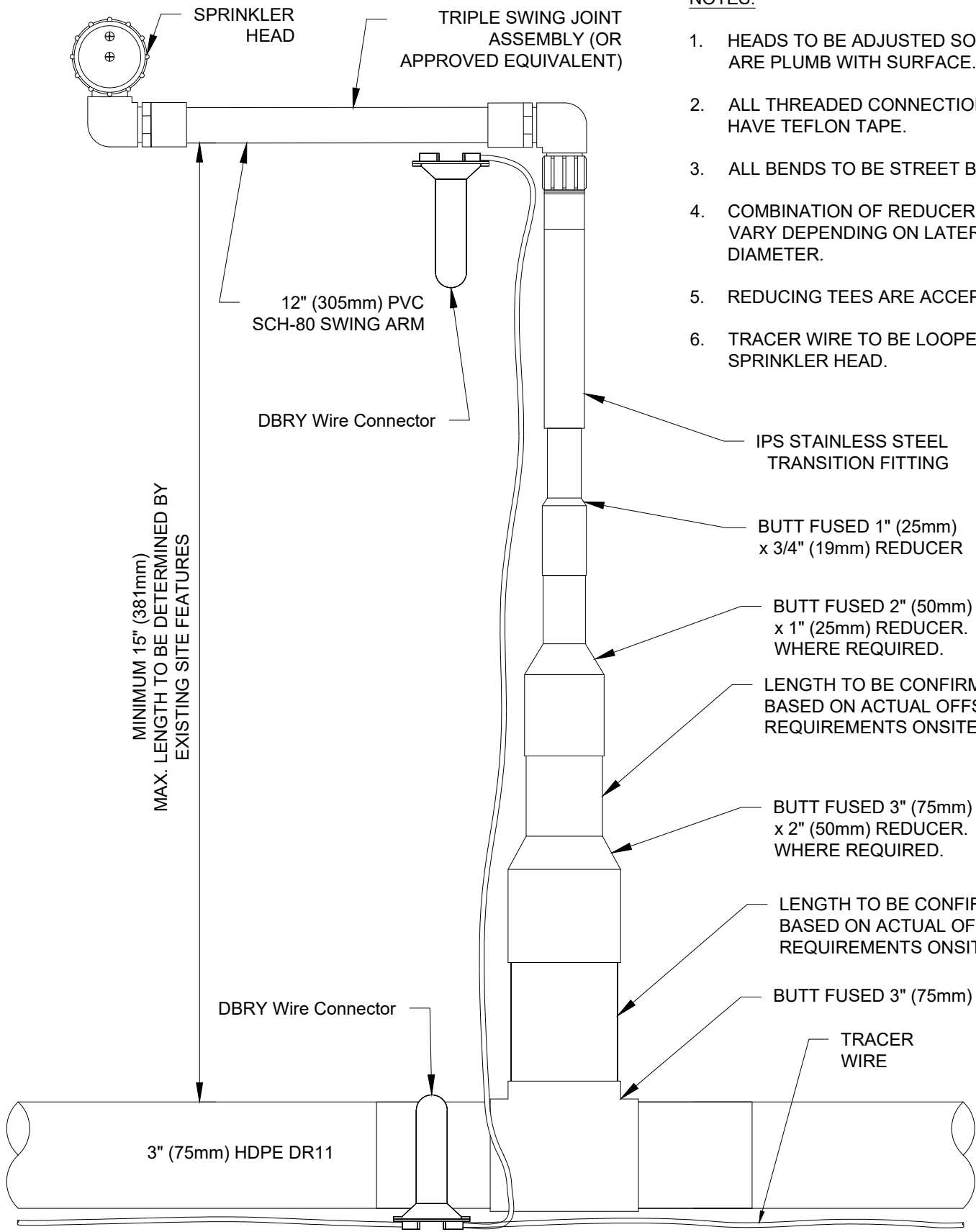
						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div>Medicine Hat The Gas City</div>	TITLE: IRRIGATION SWING JOINT ASSEMBLY
3.	24	04	01	Updated Drawing	KG	SCALE:	N.T.S.		
2.	20	04	01	Updated Drawing	BS	DRAWN:	K.G.		
1.	16	06	06	Edited measurement for imperial	AB	APPROVED:	J.V.		
No	YY	MM	DD	REVISION DESCRIPTION	BY				
	DATE								
							DWG No.:	PK2020	Rev.: 3

NOTES:

- 1. HEADS TO BE ADJUSTED SO THEY ARE PLUMB WITH SURFACE.
- 2. ALL THREADED CONNECTIONS TO HAVE TEFLON TAPE.
- 3. ALL BENDS TO BE STREET BENDS.




						DATE: Apr. 30, 2024	<div>PARKS & RECREATION</div> <div> Medicine Hat The Gas City</div>	TITLE: IRRIGATION SWING JOINT ASSEMBLY PLAN VIEW ELECTRO-FUSED
						SCALE: N.T.S.		
						DRAWN: K.G.		
1.	24	04	01	Updated Drawing	KG			
No	YY	MM	DD	REVISION DESCRIPTION	BY	APPROVED: J.V.		DWG No.: PK2021 Rev.: 1
	DATE							



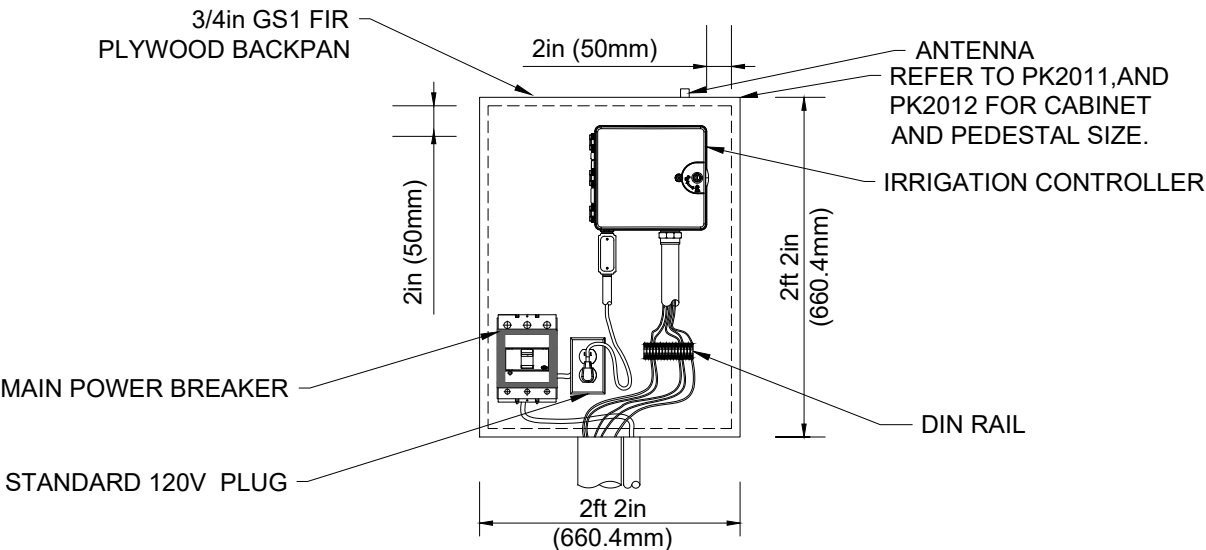
NOTES:

1. HEADS TO BE ADJUSTED SO THEY ARE PLUMB WITH SURFACE.
2. ALL THREADED CONNECTIONS TO HAVE TEFLON TAPE.
3. ALL BENDS TO BE STREET BENDS.
4. COMBINATION OF REDUCERS WILL VARY DEPENDING ON LATERAL DIAMETER.
5. REDUCING TEES ARE ACCEPTABLE.
6. TRACER WIRE TO BE LOOPED TO SPRINKLER HEAD.

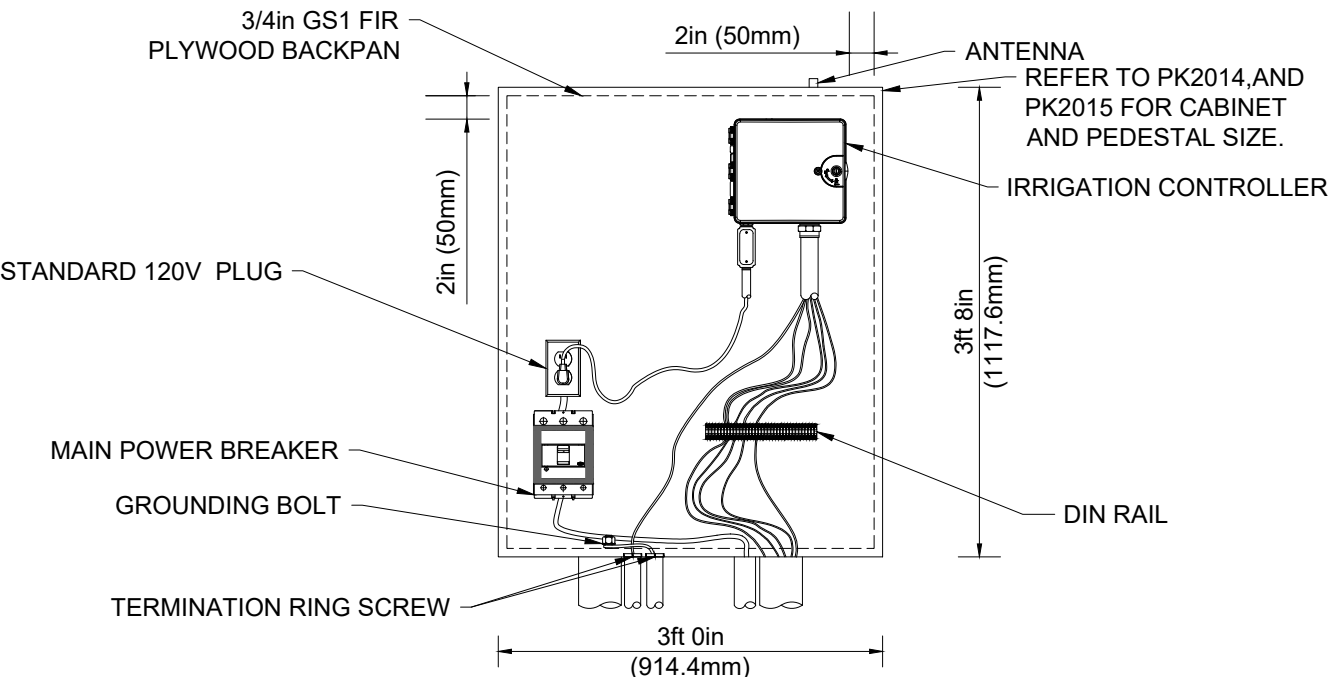
						DATE:	Apr. 30, 2024	 PARKS & RECREATION	TITLE: SWING JOINT ASSEMBLY PLAN VIEW BUTT FUSED
						SCALE:	N.T.S.		
						DRAWN:	K.G.		
1.	24	04	01	Updated Drawing	KG	APPROVED:	J.V.		
No	YY	MM	DD	REVISION DESCRIPTION	BY				DWG No.: PK2022 Rev.: 1
	DATE								


- NOTES:
- 1. REFER TO PK2011 AND PK2014 FOR CABINET DETAILS.
 - 2. IRRIGATION CONTROLLER TO BE INSTALLED IN TOP RIGHT WITH A 2in CLEARANCE FROM TOP AND RIGHT SIDES OF CABINET. CONTROLLER SHOULD BE MOUNTED IN A POSITION THAT ALLOWS THE DOOR TO BE FULLY OPENED.
 - 3. MAIN POWER BREAKER AND PLUG TO BE INSTALLED IN LOWER LEFT CORNER OF CABINET. MINIMUM 1m OF FIELD WIRE TO EXTEND OUTSIDE THE CABINET FOR PROPER WIRING PURPOSES.
 - 4. ALL COMPONENTS SHALL BE CSA APPROVED AND SUBJECT TO APPLICABLE NATIONAL, PROVINCIAL AND MUNICIPAL CODES/BYLAWS.
 - 5. CONTROLLER CABINET SHALL HAVE ELECTRICAL SURGE PROTECTION AND GROUNDING.
 - 6. ALL COMPONENTS INSIDE CABINET MUST BE LABELED WITH LAMACOID.

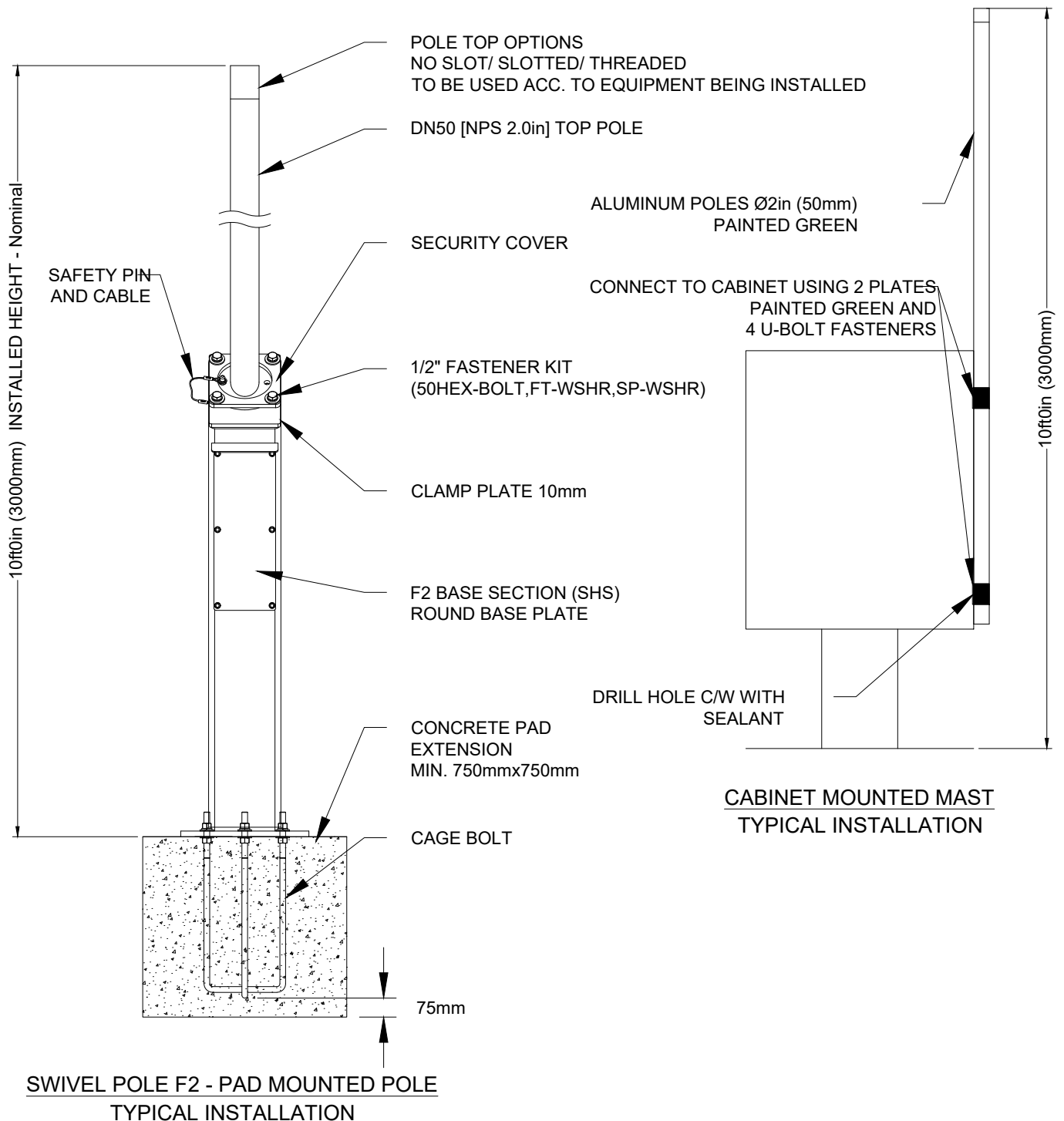
SMALL IRRIGATION CONTROLLER CABINET



LARGE IRRIGATION CONTROLLER CABINET




						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div> Medicine Hat The Gas City</div>	TITLE: IRRIGATION CABINET LAYOUT DETAIL	
					SCALE:	N.T.S.				
					DRAWN:	K.G.				
1.	24	04	01	Updated Drawing	KG	APPROVED:	J.V.		DWG No.: PK2023 Rev.: 1	
No	YY	MM	DD	REVISION DESCRIPTION	BY					
	DATE									

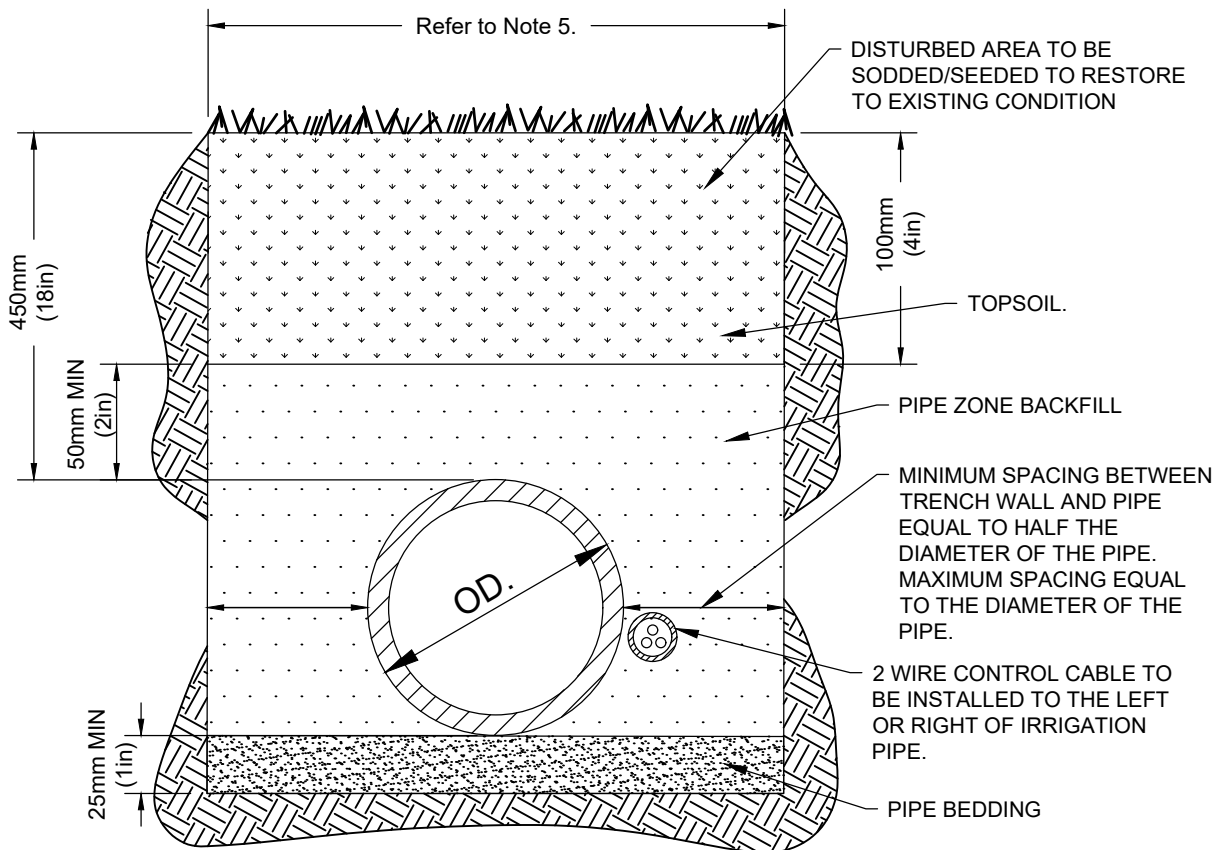



NOTES:

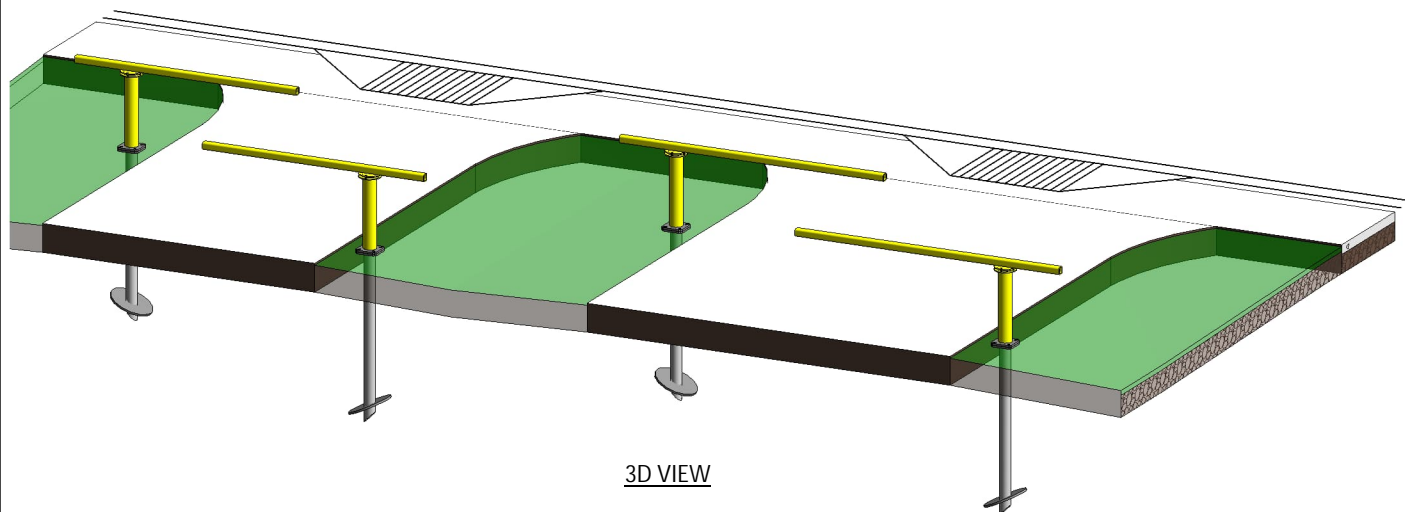
1. REFER TO CoMH CAST IN PLACE CONCRETE SPECIFICATION (SECTION - 03300).
2. REFER TO MANUFACTURER FOR PRODUCT INSTALLATION GUIDELINES.
3. POLE TO BE GROUNDED TO GROUNDING GRID WITH 6AWD WIRE.
4. ALL WIRING SHOULD BE WITHIN THE MAST CONDUIT.
5. CONTRACTOR TO CONFIRM PARTS BEFORE PLACING ORDER.
6. ALL COMPONENTS SHALL BE CSA APPROVED AND SUBJECT TO APPLICABLE NATIONAL, PROVINCIAL AND MUNICIPAL CODES/BYLAWS.

						DATE:	Apr. 30, 2024	<div>PARKS & RECREATION</div> <div></div>	TITLE: <div>POLE MOUNT DETAIL</div>	
						SCALE:	N.T.S.			
						DRAWN:	K.G.			
1.	24	04	01	Updated Drawing	KG					
No	YY	MM	DD	REVISION DESCRIPTION	BY	APPROVED:	J.V.			
	DATE								DWG No.: PK2024 Rev.: 1	

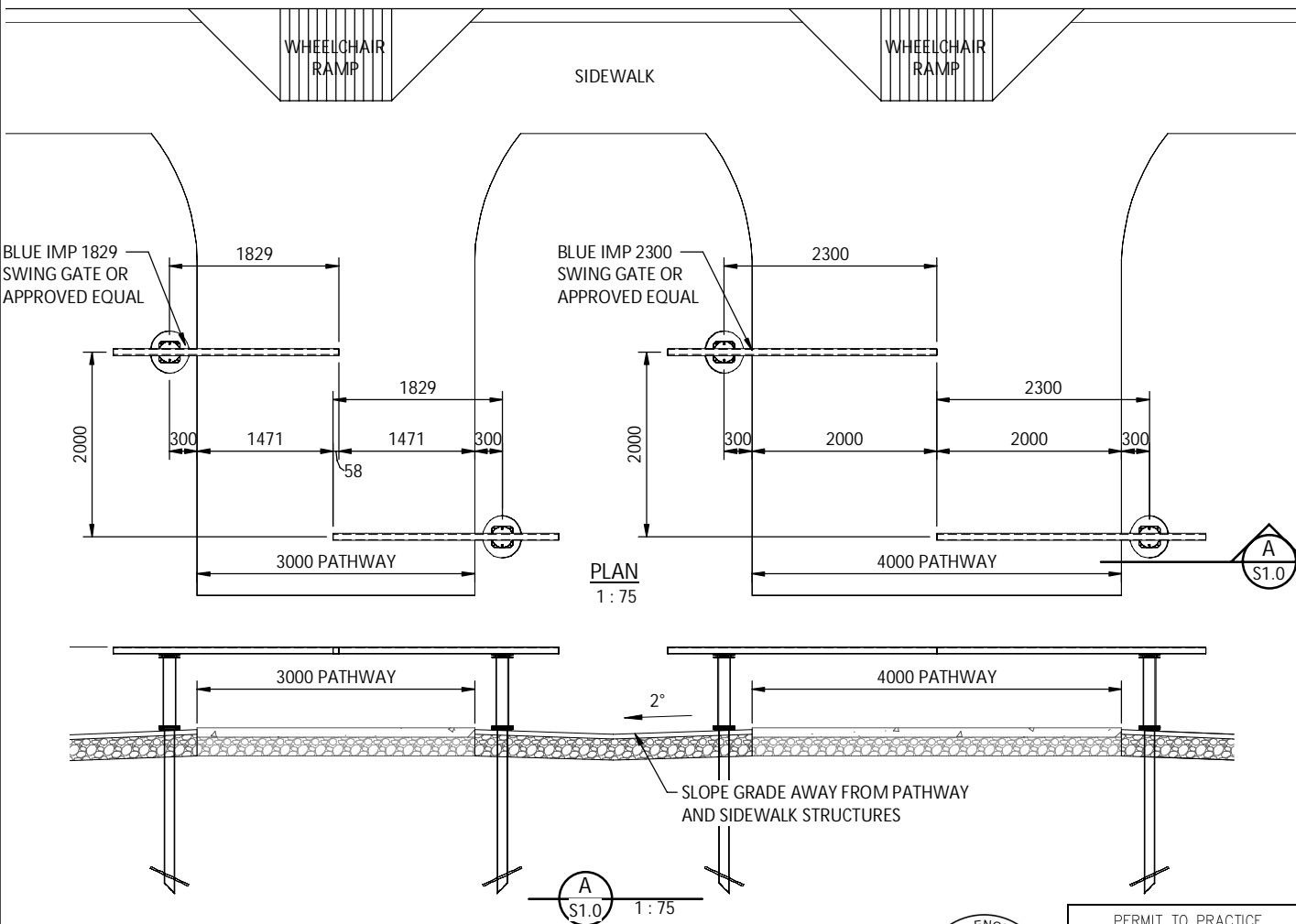
1. C.S.A. HIGH DENSITY POLYETHYLENE PIPE DR 11 (PE4710). NO LOW DENSITY OR PVC PIPE SHALL BE CONSIDERED. THE USE OF ANY SIZE OF PIPE THAT IS DIFFERENT FROM THAT SPECIFIED MUST BE APPROVED BY THE CONSULTANT.
2. REFER TO IRRIGATION DRAWING SET FOR MAINLINE PIPE SIZE. 100mm (4in) SHALL BE THE SMALLEST SIZE ALLOWED, UNLESS OTHERWISE APPROVED.
3. 3M DBR/Y SPLICE KITS TO BE USED WHEN SPLICING.
4. ALL PIPING SHALL BE CONNECTED BY BUTT FUSION OR ELECTRO FUSION ONLY. NO OTHER METHODS OF CONNECTIONS ARE ACCEPTABLE.
5. TRENCH WIDTH SHALL BE A MINIMUM OF TWO TIMES BUT NO MORE THAN THREE TIMES THE DIAMETER OF THE PIPE.
FOR EX: MAINLINE DIAMETER =50 mm(2in) THAN TRENCH WIDTH BETWEEN 100mm TO 150mm.
6. MAINLINE TO BE INSTALLED BY OPEN CUT TRENCHING UNLESS OTHERWISE APPROVED.



						DATE:	Apr. 30, 2024	 Medicine Hat The Gas City	TITLE:	IRRIGATION MAINLINE TRENCHING DETAIL	
						SCALE:	N.T.S.				
						DRAWN:	K.G.				
1.	24	04	01	Updated Drawing	KG	APPROVED:	J.V.				
No	YY	MM	DD	REVISION DESCRIPTION	BY				DWG No.:	PK2025	Rev.: 1
	DATE										



3D VIEW



PERMIT TO PRACTICE
MPE ENGINEERING LTD.
Signature: *[Signature]*
APEGA ID 107563
Date JUN 30, 2022
PERMIT NUMBER: P 3680
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)



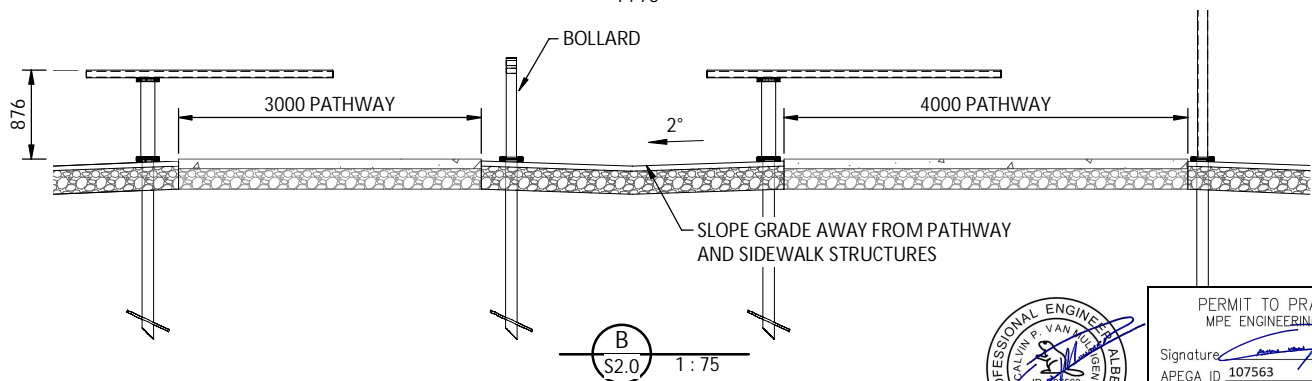
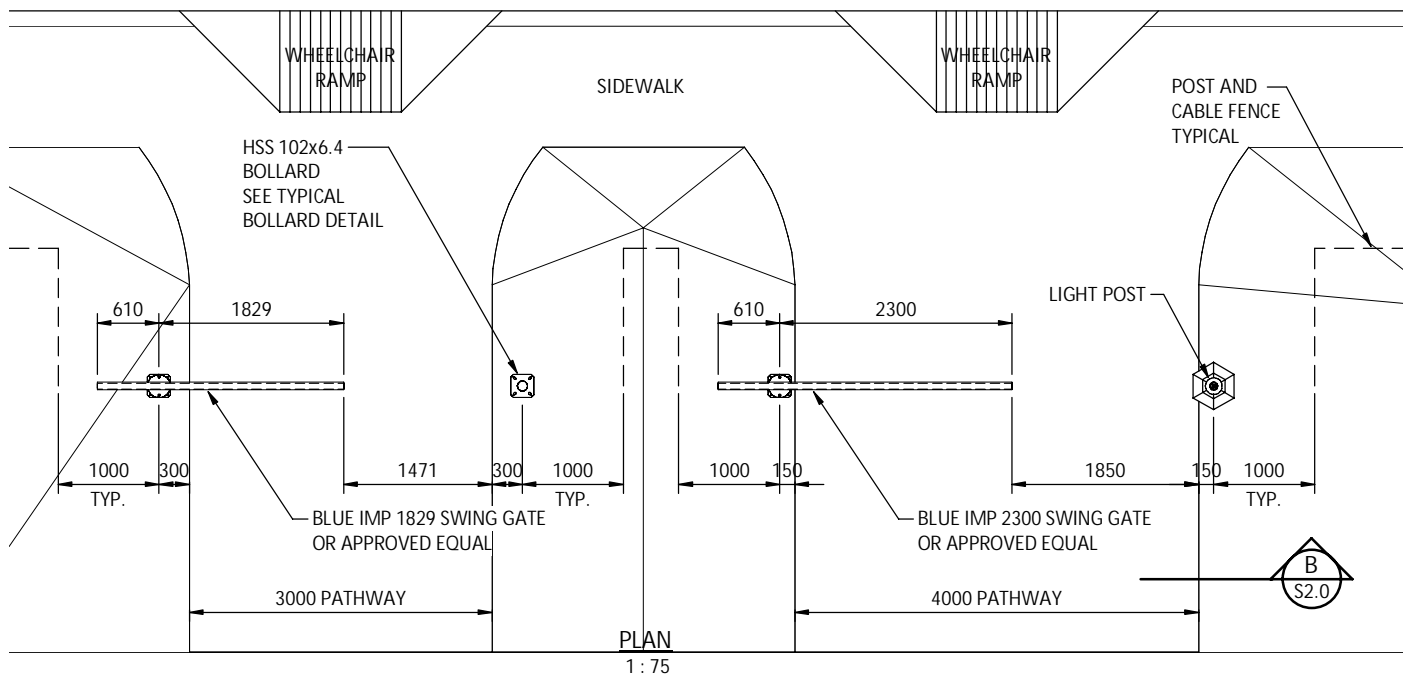
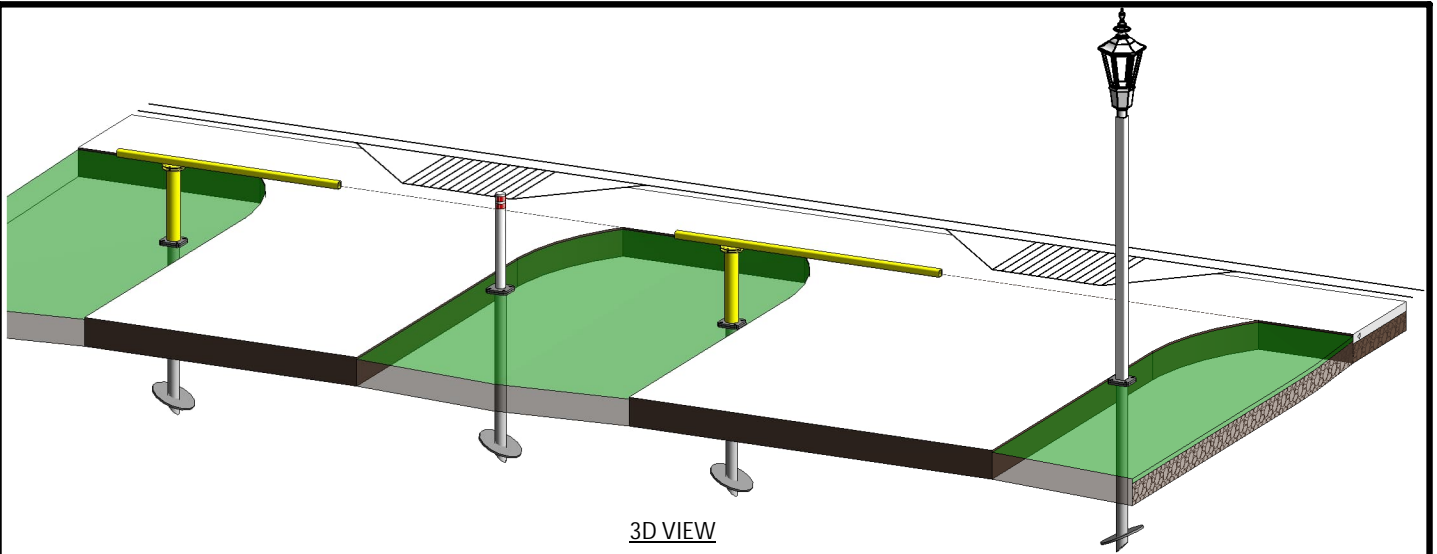
CITY OF MEDICINE HAT
REGIONAL TRAIL
DUAL SWING GATE CONFIGURATION

SCALE: 1 : 75

DATE: JUNE 2022

JOB: 3404-055-00

DRAWING: S1.0



PERMIT TO PRACTICE
MPE ENGINEERING LTD.

Signature: *[Signature]*

APEGA ID 107563

Date JUN 30, 2022

PERMIT NUMBER: P 3680

The Association of Professional Engineers and Geoscientists of Alberta (APEGA)



CITY OF MEDICINE HAT

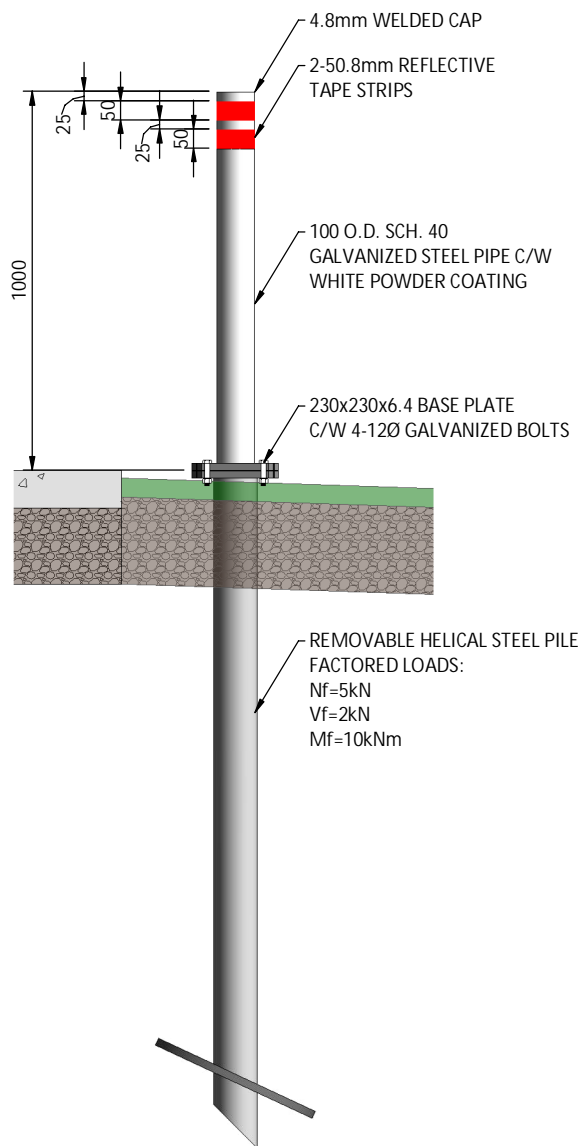
REGIONAL TRAIL
SINGLE SWING GATE CONFIGURATION

SCALE: 1:75

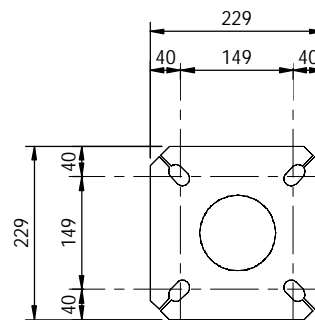
DATE: JUNE 2022

JOB: 3404-055-00

DRAWING: S2.0



BOLLARD DETAIL
1 : 20



BOLLARD NSS TYPE A BASE PLATE
1 : 10



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APEGA ID 107563
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CITY OF MEDICINE HAT

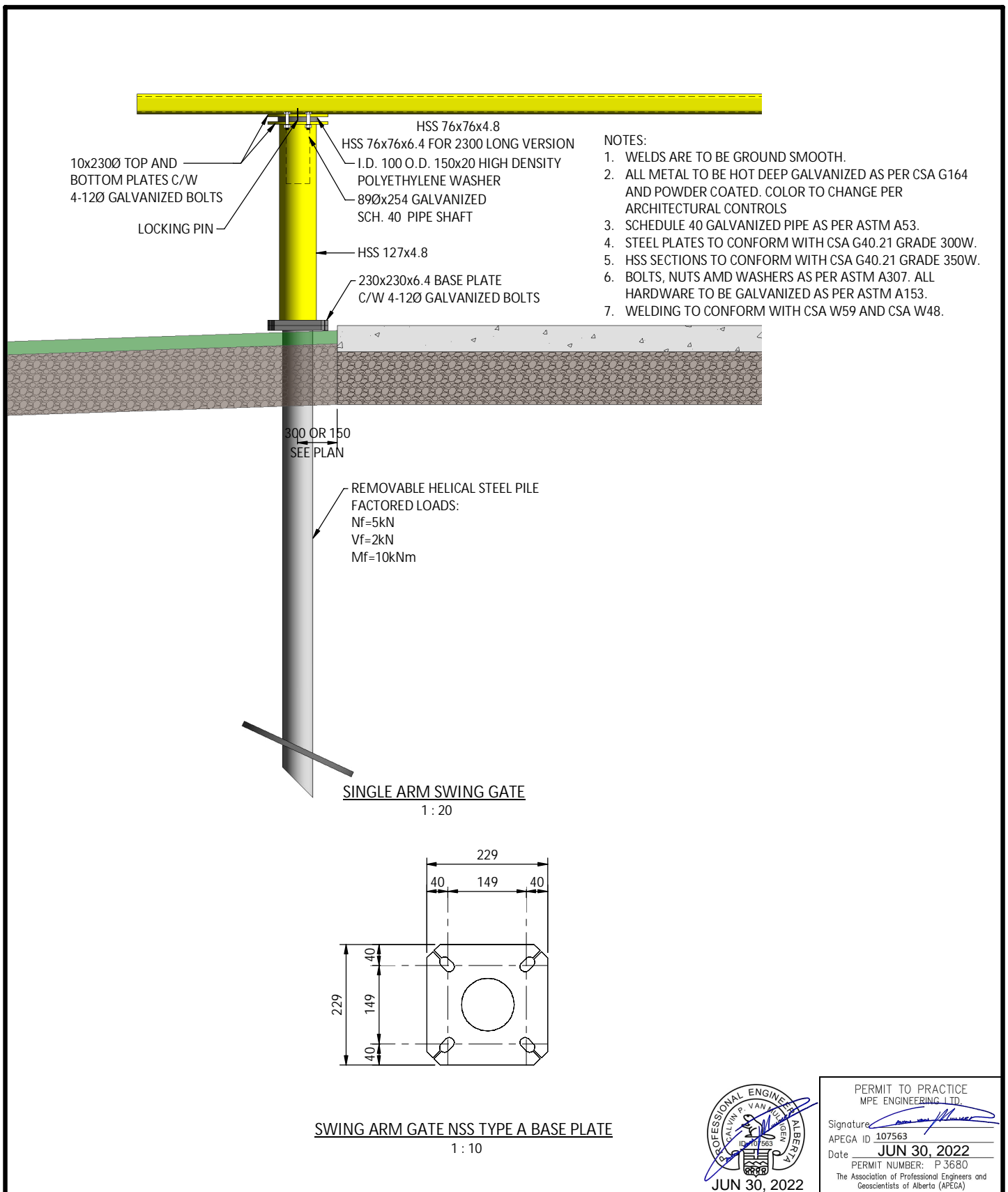
REGIONAL TRAIL
TYPICAL BOLLARD DETAILS


SCALE: As indicated

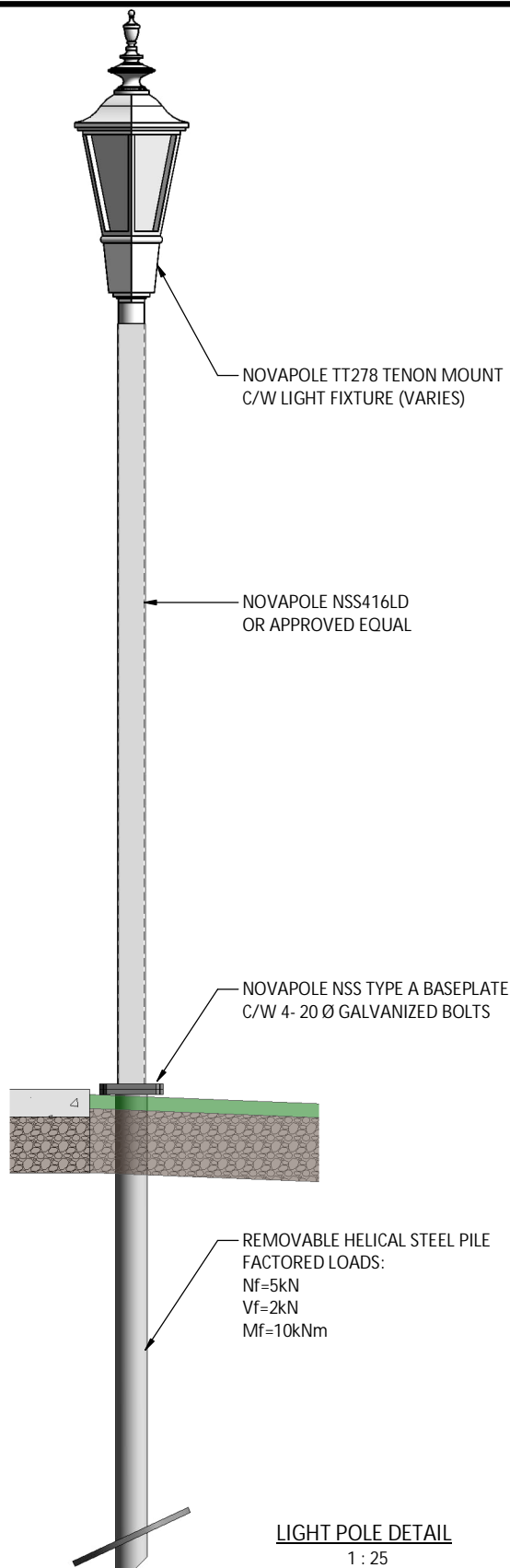
DATE: JUNE 2022

JOB: 3404-055-00

DRAWING: S3.0

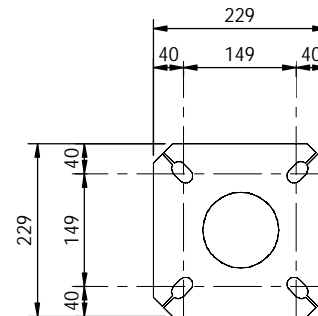


 <p>Engineering Ltd.</p>	CITY OF MEDICINE HAT		
	REGIONAL TRAIL TYPICAL SINGLE ARM SWING GATE DETAILS		
SCALE: As indicated	DATE: JUNE 2022	JOB: 3404-055-00	DRAWING: S3.1



NOTES:

1. BOLTS, NUTS AND WASHERS AS PER ASTM A325. ALL HARDWARE TO BE GALVANIZED AS PER ASTM A153.
2. ALL STEEL ELEMENTS TO BE GALVANIZED AND POWDER COATED.



LIGHT POLE NSS TYPE A BASE PLATE
1 : 10



PERMIT TO PRACTICE
MPE ENGINEERING LTD.

Signature: *[Signature]*

APEGA ID 107563

Date: **JUN 30, 2022**

PERMIT NUMBER: P 3680

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CITY OF MEDICINE HAT

REGIONAL TRAIL
LIGHT POLE DETAILS

SCALE: As indicated

DATE: JUNE 2022

JOB: 3404-055-00

DRAWING: S3.2