

CONSTRUCTION NOTES:

- 1. ROAD & UNIT ELEVATIONS ARE METRIC GEODETIC.
- 2. WHERE THERE ARE DISCREPANCIES BETWEEN REFERENCED STANDARDS, PROJECT DRAWINGS GOVERN OVER PROJECT SPECIFICATIONS. DISCUSS ANY UNCERTAINTIES WITH THE ENGINEER PRIOR TO CONSTRUCTION AND/OR INSTALLATION.
- 3. TOPOGRAPHIC SURVEY IS PROVIDED ON AN AS-IS BASIS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM INDEPENDENT PRE AND POST DISTURBANCE SURVEY FOR THE PURPOSES OF CONSTRUCTION LAYOUT AND QUANTITY RECONCILIATION AS APPLICABLE TO EXECUTE AND RECORD PROGRESS OF THE WORKS.
- 4. CONTRACTOR TO LAYOUT CLEARING DESIGN LIMITS FOR FIELD REVIEW. FIELD REVIEW BY ENGINEER AND OWNER IS REQUIRED PRIOR TO PERFORMING CLEARING ACTIVITY. VEGETATION DISTURBANCE AND VEGETATION DAMAGE IS TO BE MINIMIZED ON A BEST-EFFORT BASIS TO MAINTAIN A NATURAL FEEL OF THE SITE. NO VEGETATION DISTURBANCE OUTSIDE OF DESIGN LIMITS IS PERMITTED UNLESS DIRECTED BY ENGINEER.
- 5. IF ANY GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- 6. ALL EXISTING ROADS AND GROUND AREAS INCLUDING LANDSCAPING, SIDEWALKS, AND PATHS THAT ARE DISTURBED DURING CONSTRUCTION OR BY CONSTRUCTION ACTIVITIES ARE TO BE RETURNED TO PRE—CONSTRUCTION CONDITION OR BETTER AFTER CONSTRUCTION IS COMPLETE PRIOR TO DEMOBILIZATION.
- 7. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE CONVEYANCE STRUCTURES AND FEATURES DURING CONSTRUCTION AS NECESSARY TO PROTECT ROADS AND PROPERTY.
- 8. NO SILT LADEN WATER OR OTHER DELETERIOUS MATERIAL SHALL BE ALLOWED TO FLOW FROM SITE, INCLUDING INTO THE RED DEER RIVER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES INCURRED FROM SILT LADEN WATER OR OTHER DELETERIOUS MATERIAL LEAVING THE SITE. NO MUD TRACKING ON TO THE SURROUNDING ROADS IS PERMITTED. CONTRACTOR TO PROVIDE ENVIRONMENTAL PROTECTION PLAN FOR APPROVAL PRIOR TO BEGINNING WORKS.
- 9. SITE SAFETY AND SECURITY IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR CONTRACTOR COMPLIANCE.
- 10. TEMPORARY SIGNAGE AND FENCING MAINTENANCE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE SITE MUST BE FULLY FENCED FROM PUBLIC ACCESS WHEN CONSTRUCTION ACTIVITY IS NOT TAKING PLACE.
- 11. TRAFFIC CONTROL DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO SUBMIT A TRAFFIC MANAGEMENT AND SIGNAGE PLAN TO THE OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 12. REGARDING PAVEMENT INSTALLATION, CONTRACTOR TO SUBMIT ALL APPLICABLE QUALITY CONTROL DOCUMENTATION TO ENGINEER FOR REVIEW NO LESS
- THAN 7 DAYS BEFORE PAVEMENT INSTALLATION.

 13. FINISHED GRADE TO MATCH SURROUNDING TYPE AND ELEVATION.
- 14. THE CONTRACTOR SHALL DISTRIBUTE TOPSOIL AND PLANT SOD WHERE EXISTING GROUND HAS BEEN DISTURBED. THE CONTRACTOR IS NOT RESPONSIBLE FOR SOD WATERING OR MAINTENANCE AFTER DEMOBILIZATION.
- 15. THE CONTRACTOR SHALL REPLACE EACH TREE CLEARED WITH FIVE NEW TREES PLANTED WITHIN THE ROTARY PARK.
- 16. THE CONTRACTOR SHALL REQUEST A PRE-DISTURBANCE WILDLIFE AND BIRD SWEEP FROM THE OWNER A MINIMUM OF 7 DAYS BEFORE DISTURBANCE OF SITE IS PLANNED TO OCCUR. THE CONTRACTOR SHALL NOT DISTURB THE SITE UNTIL THE CLEARANCE IS GIVEN BY THE OWNER. IN THE EVENT THAT MITIGATION'S OR ADDITIONAL WORK IS REQUIRED AS A RESULT OF THE WILDLIFE AND BIRD SWEEP, THESE WILL BE DISCUSSED WITH THE PROJECT TEAM AND HANDLED AS A CHANGE, AS APPLICABLE.

SOIL MANAGEMENT:

- 17. THE CONTRACTOR IS NOTIFIED THAT HAZARDOUS SOILS AND MATERIALS ARE PRESENT ON SITE.
- 18. CONTRACTOR TO SUBMIT A HAZARDOUS WASTE HANDLING PLAN FOR ATCO AND OWNER'S APPROVAL.
- 19. CONTRACTOR TO ASSUME ALL EXCAVATED MATERIALS FROM THE SITE ARE CONTAMINATED AND REMOVE AND DISPOSE OF THEM ACCORDING TO AN APPROVED HAZARDOUS WASTE HANDLING PLAN.
- 20. THE CONTRACTOR SHALL RECORD VOLUME OF CONTAMINATED SOIL AND DELETERIOUS MATERIAL REMOVED FROM SITE AND LOCATION OF DISPOSAL FOR SUBMITTAL TO ATCO.
- 21. THE CONTRACTOR SHALL RETAIN RECORDS OF CONTAMINATED SOIL AND DELETERIOUS MATERIAL DISPOSAL FROM DRUMHELLER AND DISTRICT REGIONAL LANDFILL. SUBMITTAL OF THESE RECORDS FOR VERIFICATION OF CONTAMINATED SOIL AND DELETERIOUS MATERIAL DISPOSAL MAY BE REQUESTED.
- 22. THE CONTRACTOR MAY ENCOUNTER DELETERIOUS MATERIAL SUCH AS BRICKS, REBAR, OR CONCRETE DURING EXCAVATION. DELETERIOUS MATERIAL ENCOUNTERED DIRECTLY IMPACTING THE WORK SHALL BE REMOVED AS NECESSARY AND DISPOSED OF ACCORDING TO APPROVED HAZARDOUS WASTE HANDLING PLAN. DELETERIOUS MATERIAL ENCOUNTERED, BUT NOT IMPACTING THE WORKS, TO BE LEFT BURIED IN PLACE.
- 23. SOIL STOCKPILES AND EQUIPMENT DISTURBANCE ONLY PERMITTED WITHIN DESIGN DISTURBANCE FOOTPRINT TO PRESERVE EXISTING VEGETATION AND ECOLOGY. ENCROACHMENT OF STOCKPILES OR DISTURBANCE LIMITS BEYOND PROJECT LIMITS WILL NOT BE TOLERATED.
- 24. CONTRACTOR SHALL SOURCE AND SUPPLY CLEAN SOIL BACKFILL. BACKFILL SOURCE IS SUBJECT TO ENVIRONMENTAL COMPLIANCE TESTING.
 ENVIRONMENTAL COMPLIANCE TESTING TO BE AT THE COST OF THE CONTRACTOR. BACKFILL SOURCE AND TESTING RESULTS SUBJECT TO APPROVAL PRIOR TO DELIVERY OF FILL TO SITE.
- 25. SUBMITTED BACKFILL SOURCE ENVIRONMENTAL COMPLIANCE TESTING RESULTS WILL BE COMPARED AGAINST ALBERTA TIER 1 SOIL AND GROUNDWATER REMEDIATION GUIDELINES FOR RESIDENTIAL/PARKLAND. TESTING SHALL INCLUDE RESULTS FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES (BTEX), PETROLEUM HYDROCARBON FRACTIONS F1 TO F4, POLYCYCLIC AROMATIC HYDROCARBONS, METALS, SALINITY, AND SOIL STERILANTS.

UTILITIES:

- 26. THE CONTRACTOR IS NOTIFIED THAT HIGH VOLTAGE BURIED UTILITIES ARE PRESENT WITHIN THE SITE. ADDITIONAL BURIED UTILITIES ARE PRESENT WITHIN THE SITE.
- 27. THE CONTRACTOR IS NOTIFIED THAT ALL ELECTRIC UTILITIES WILL REMAIN ENERGIZED THROUGHOUT THE DURATION OF THE WORK. SUCH UTILITIES WILL BE SUBJECT TO INDUCED VOLTAGES AND CURRENTS AND ARE ASSUMED TO BE HAZARDOUS TO PERSONS AND PROPERTY.
- 28. THE CONTRACTOR IS WARNED THAT CONFLICTS WITH EXISTING UTILITY SERVICES BEYOND THOSE ALREADY IDENTIFIED MAY EXIST. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES FOR LINE LOCATIONS, AND CONTRACTOR SHALL THEN LOCATE ALL UTILITIES (INCLUDING DEPTH). SWEETTECH ENGINEERING CONSULTANTS ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. ANY CONFLICTS WITH THE CONSTRUCTION, NOT IDENTIFIED ON THE DRAWINGS, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY SO THAT MITIGATION OF CONFLICTS WITH THESE EXISTING UTILITIES CAN BE CONSIDERED.
- 29. THE CONTRACTOR SHALL CONTACT ATCO A MINIMUM OF 2 WEEKS BEFORE ATCO ON—SITE REPRESENTATION IS REQUIRED. THE CONTRACTOR IS REQUIRED TO HAVE AN ATCO ON—SITE REPRESENTATIVE PRESENT FOR ALL WORK SURROUNDING ATCO LINES WITHIN 1 m OF THE LOCATE MARKINGS, INCLUDING HYDROVACING, EXPOSING LINES, INSTALLING CONCRETE UTILITY MECHANICAL SEPARATION PAD, BACKFILL OPERATIONS, AND ALL OTHER WORK OCCURRING WITHIN 1 m OF ATCO UTILITIES.
- 30. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. UTILITIES THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER OR ENGINEER.
- 31. ALL HYDROVAC WORK SHALL BE COMPLETED USING AN EQUIPOTENTIAL BONDING MAT AND USING A WATER PRESSURE OF NO MORE THAN 1500 PSI. 32. CONTRACTOR TO SUBMIT PROPOSED MANHOLE TIE—IN CONNECTION METHOD TO ENGINEER FOR REVIEW 7 DAYS BEFORE MANHOLE TIE—IN WORK CAN COMMENCE.
- 33. CONTRACTOR SHALL ABANDON EXISTING PIPES ACCORDING TO THE SPECIFICATIONS GIVEN IN SECTION 403.14.01 OF THE CITY OF CALGARY 2022 STANDARD SPECIFICATIONS FOR SEWER CONSTRUCTION. PIPES ARE TO BE ABANDONED IN PLACE.

SCALE NOTATIONS INDICATED ARE BASED ON AN ANSI D DRAWING FORMAT, & COLOUR PRINTED.





	Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
PERMIT TO PRACTICE 1963401 ALBERTA LTD. GNATURE: GPO 46 Mar. 8, 2015 PERMIT NUMBER: P013638 Association of Professional Engineers and Geoscientists of Alberta (APECA)	Α	2023-03-08	AO	KS	ES	ISSUED FOR TENDER						

REFERENCE:

- 1. EXISTING GROUND CONTOURS FROM HUNTER WALLACE SURVEYS LTD. RECEIVED ON NOVEMBER 19, 2021.
- 2. 2019 AERIAL IMAGERY PROVIDED BY DRUMHELLER RESILIENCY AND FLOOD MITIGATION OFFICE.
- 3. UTILITY LOCATIONS PROVIDED BY DRUMHELLER RESILIENCY AND FLOOD MITIGATION OFFICE.
- 4. APPROXIMATE ENVIRONMENTAL WATER MONITORING WELLS AND BURIED ATCO POWER PLANT FOUNDATIONS FROM ATCO ELECTRIC LTD. DRUMHELLER POWER PLANT SITE PLAN (24984-SP17) OCTOBER, 2017.
- 5. ELECTRIC AND GAS UTILITY LOCATIONS AND ELEVATIONS HAVE BEEN APPROXIMATED BASED ON INTERPOLATION OF DAYLIGHTED AND SURVEYED LINES PROVIDED BY HUNTER WALLACE SURVEYS LTD. (2022/03/30).
- 6. RED DEER RIVER BANK LINE PROVIDED BY HUNTER WALLACE SURVEYS LTD.
- 7. PROJECT COORDINATE SYSTEM: NAD83-3TM114.

SURVEY CONTROL PROJECT HORIZONTAL DATUM IS GRID FOR ALBERTA NAD83. 3 DEGREE ZONE, CENTRE AT 114° WEST (CANA83-3TM114). ALL ELEVATIONS ARE SHOWN IN METRES TO CANADIAN GEODETIC VERTICAL DATUM 1928 (CGVD28) CONFIRMED BY TIES TO ALBERTA SURVEY CONTROL MARKERS (ASCM) IN THE 5704120.994 89897.383 682.345 ASCM 5704070.443 90098.890 681.449 5703757.371 90303.534 684.371 ASCM 5703923.309 90272.646 681.725 5704765.602 89475.019 686.227

PRAWING ABBREVIATIONS APPROX APPROXIMATELY FB FREEBOARD ELEV ELEVATION DWG DRAWING € CENTRE LINE TYP TYPICAL SPMDD STANDARD PROCTOR MAXIMUM DRY DENSI OMC OPTIMUM MOISTURE CONTENT C/W COMES WITH	PVI	DRIVE STREET AVENUE STATION ISSUED FOR TENDER HEAD WALL RIVER STATION DIKE STATION POINT OF VERTICAL INFLECTION
C/W COMES WITH W/ WITH PE POLYETHYLENE INV INVERT STM STORM SAN SANITARY PR. PROPOSED EX. EXISTING MIN MINIMUM MAX MAXIMUM TBD TO BE DETERMINED	BVCS BVCE EVCS EVCE LVC	BEGINNING VERTICAL CURVE STATION BEGINNING VERTICAL CURVE ELEVATION END VERTICAL CURVE STATION END VERTICAL CURVE ELEVATION LENGTH OF VERTICAL CURVE

EXISTING LEGEND:					
EX. LEGAL LINES	_		EX. MONITORING WELL	_	
EX. FORMER BUILDING FOOTPRINT	_		EX. UTILITY CROSSING	_	\boxtimes 1
EX. EDGE OF PAVEMENT	_		EX. FIRE HYDRANT	_	
EX. GAS UTILITY	_	— ————————————————————————————————————	EX. OUTFALL	_	Ţ
EX. WATER UTILITY	_		EX. GAS METER	_	
EX. ELECTRICAL UTILITY			EX. CATCH BASIN	_	
	_	<u>L</u>	EX. MANHOLE	_	
EX. SANITARY UTILITY	_	S	EX. PEDESTAL	_	
EX. STORM UTILITY	_		EX. DIRECTION OF FLOW	_	
EX. TELUS UTILITY	_				
EX. MAJOR CONTOUR (INTERVAL= 5.0m)	_				
EX. MINOR CONTOUR (INTERVAL= 1.0m)	_				
PROPOSED LEGEND:					
PR. APPROX. TRENCH EXCAVATION	_		PR. SANITARY MANHOLE	_	
PR. SANITARY UTILITY	_		PR. LOW MPa CONC. PAD	_	
			PR. APPROX. REMOVALS	_	
PR. ABANDONED STM UTILITY	_				

THIS DRAWING IS PREPARED FOR THE SOLE USE OF THE TOWN OF DRUMHELLER NO REPRESENTATIONS OF ANY KIND ARE MADE BY SWEETTECH ENGINEERING CONSULTANTS OR ITS EMPLOYEES TO ANY PARTY WITH WHOM SWEETTECH ENGINEERING CONSULTANTS DOES NOT HAVE A CONTRACT

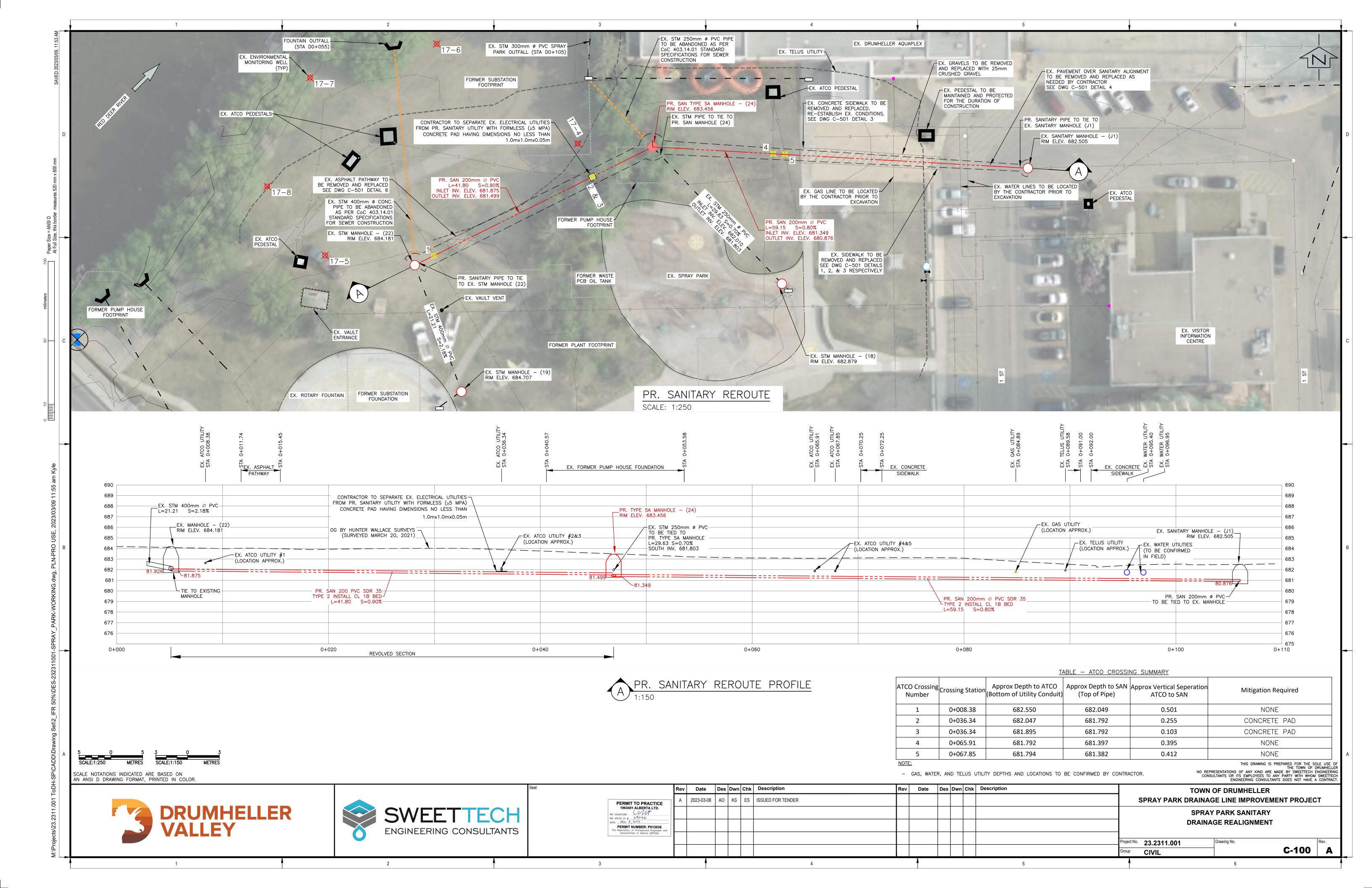
CONSULTANTS OR ITS EMPLOYEES TO ANY PARTY WITH WHOM SWEET ENGINEERING CONSULTANTS DOES NOT HAVE A CONTI

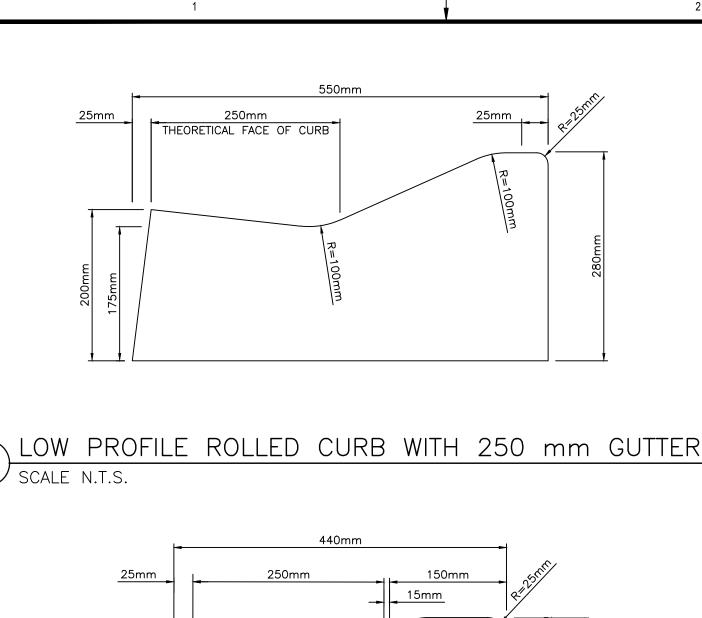
TOWN OF DRUMHELLER
SPRAY PARK DRAINAGE LINE IMPROVEMENT PROJECT
CONSTRUCTION NOTES, AND LEGEND

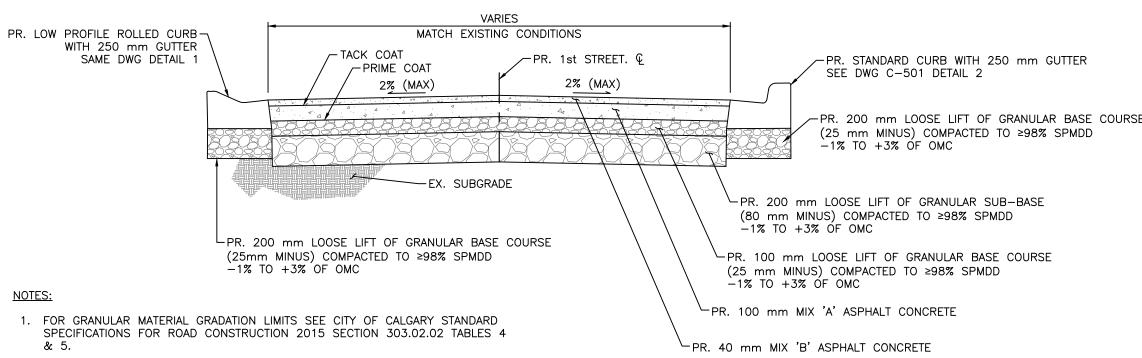
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oject No. 23.2311.001 Drawing No.

G-002







MANHOLE COVER:

MANHOLE FRAME:

MANHOLE FRAME & COVER

TOP SLAB DWG SHEET #7A (452.1001.032)

INTERMEDIATE BARREL DWG SHEET #8A (452.1001.035)

INTERMEDIATE BARREL DWG SHEET #8A (452.1001.035)

PREBENCH BASE

MATERIAL SPECIFICATIONS:

1. HS 50 CEMENT (TYPE 50). 2. DESIGN AND REINFORCING AS PER ASTM 478M & CSA A257.4.

TOP BARRELS DWG SHEET #8A (452.1001.035) MAX. 2 (TWO) PER MH IF REQUIRED

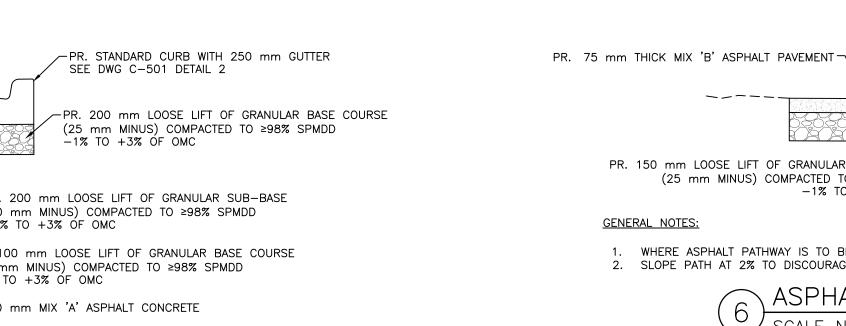
COLLAR

MANHOLE FRAME RISER:

- USE STANDARD MANHOLE COVER AS PER DWG SHEET #1 (452.1001.012). - USE GRATED MANHOLE COVER AS PER DWG SHEET #2 (452.1001.011) ONLY IF CONSTRUCTION DRAWINGS INDICATE.

- USE MANHOLE FRAME RISER AS PER DWG SHEET #3 (452.1001.007). - USE ONLY FOR FINAL ADJUSTMENTS TO GRADE.

- USE STANDARD OR SHALLOW MANHOLE FRAME AS PER DWG SHEET #4 (452.1001.013), #4A (452.1001.031) & #5 (452.1001.014).





COLLAR DETAIL

TOP SLAB

(300mm-813mm)

(1200mm-2440mm)

(1200mm-2440mm)

1. AN ADDITIONAL STEP IS REQUIRED TO BE INSTALLED IF THE DISTANCE BETWEEN THE TOP STEP AND THE UNDERSIDE OF THE MANHOLE FRAME EXCEEDS 584mm. SPACING BETWEEN STEPS SHALL NOT BE LESS THAN 400mm.

2. MAXIMUM OF THREE COLLARS TO BE USED.

- MANHOLE STEP TO BE INSTALLED BETWEEN FRAME AND COLLAR

COLLAR - USE PRE-CAST CONCRETE COLLAR(S) AS PER DWG SHEET #6 (452.1001.006).

(735mm, 745mm, 755mm, 760mm, 770mm, 813mm, OR 840mm)

5A MANHOLE ASSEMBLY

FOR SPIGOT-UP INSTALLATIONS

2. STEP - USE MANHOLE STEP AS PER DWG SHEET #9 (452.1001.021).

3. MORTAR - SEE DETAILED SPECIFICATIONS, SECTION 402.03.02 MORTAR.

DIMENSIONS ARE IN MILLIMETE UNLESS OTHERWISE NOTED

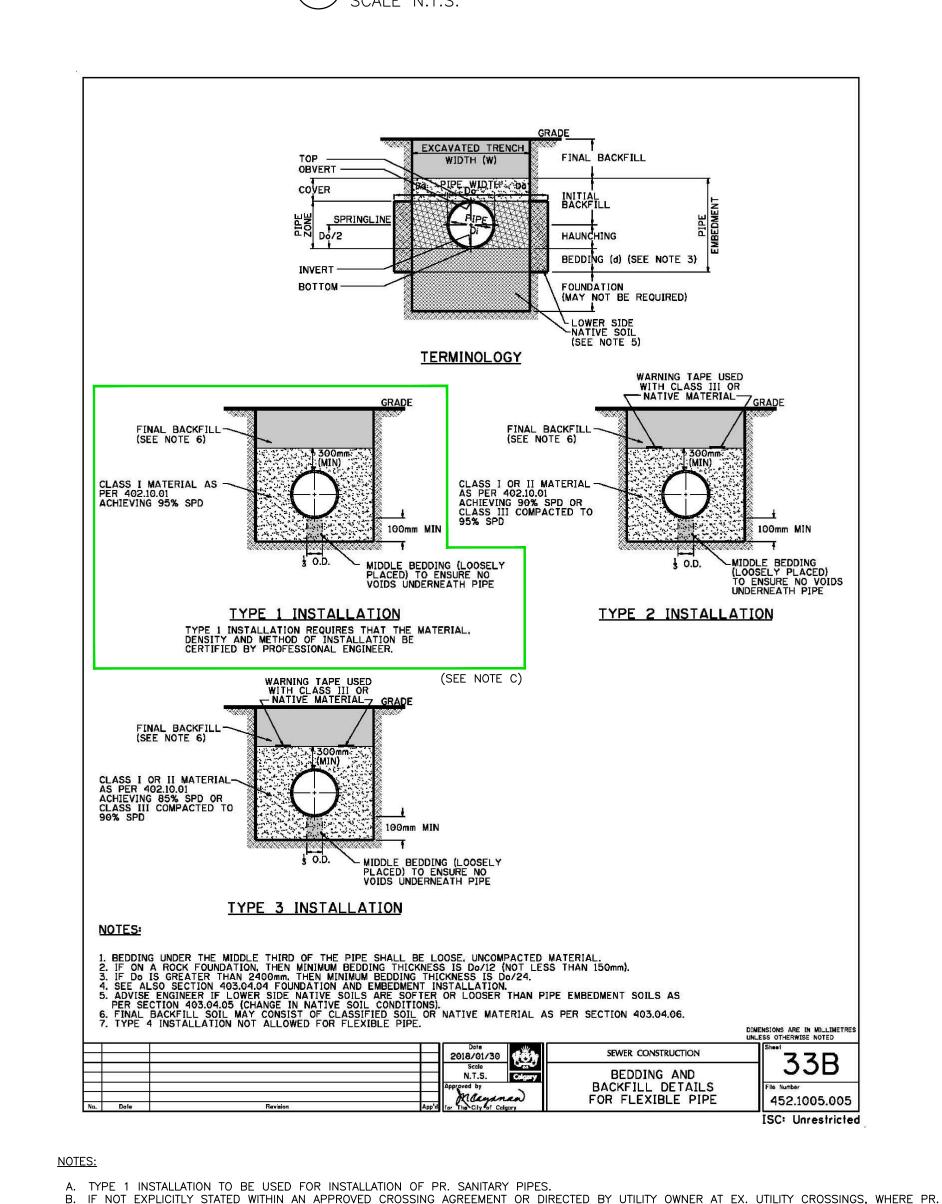
38B

452.1001.036

ISC: Unrestricted

- FRAME RISER

-TOP SLAB



SANITARY PIPE CROSSES EXISTING BURIED UTILITIES, EXISTING BURIED UTILITIES ARE TO BE BACKFILLED WITH CLEAN, GRADED, WASHED BEDDING SAND.

BEDDING SAND TO BE INSTALLED TO A WIDTH OF 3x EXITING UTILITY PIPE DIAMETERS OR 300 mm, WHICHEVER IS GREATER. BEDDING SAND TO BE

PLACED IN LIFTS OF 150 mm AND COMPACTED BY TAMP TO 90% SPMDD WITH CARE TAKEN NOT TO DAMAGE THE EXISTING UTILITY. THE TOP 300 mm

UNDERSIDE OF ROAD STRUCTURE (SEC 304.00.00) WHEN UNDER PATHWAYS AND ROADWAYS. IN LANDSCAPED/GRASSED AREAS, NATIVE MATERIAL CAN BE

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C. FINAL BACKFILL TO BE PLACED AS PER CITY OF CALGARY ROAD CONSTRUCTION STANDARDS SPECIFICATIONS USING A CRUSHED GRAVEL MATERIAL TO

UTILIZED AS THE FINAL BACKFILL MATERIAL AND IS TO BE PLACED IN ACCORDANCE WITH 403.08.02 (2022 STANDARD SPECIFICATIONS FOR SEWER CONSTRUCTION). LIFT THICKNESS MAY VARY BETWEEN 150-300 mm DEPENDING ON COMPACTION EQUIPMENT TYPE.

BEDDING AND BACKFILL DETAILS FOR FLEXIBLE PIPE

UNDER STRUCTURES AND PAVEMENT SHALL BE COMPACTED TO 98% SPMDD (MIN.).

SLOPE 2%

PR. 150 mm LOOSE LIFT OF GRANULAR BASE COURSE -

GENERAL NOTES:

(25 mm MINUS) COMPACTED TO ≥98% SPMDD

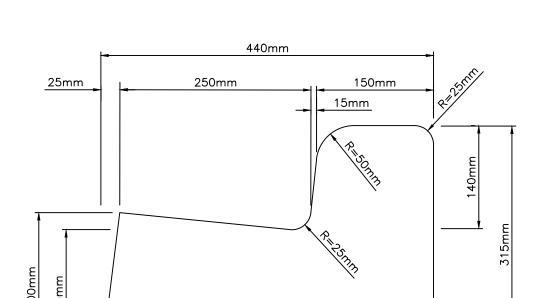
-1% TO +3% OF OMC

WHERE ASPHALT PATHWAY IS TO BE REPLACED MATCH EXISTING CONDITIONS.

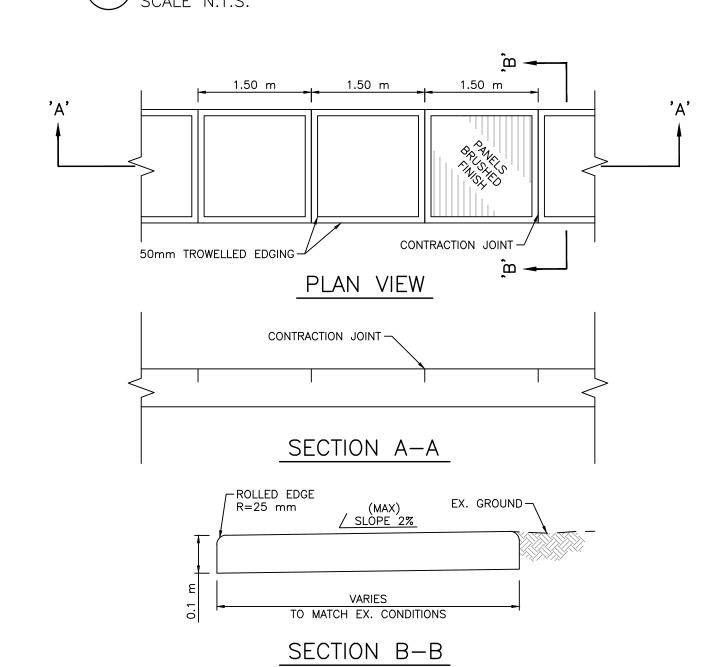
\ASPHALT PATHWAY

2. SLOPE PATH AT 2% TO DISCOURAGE STANDING WATER ON THE ASPHALT PATH.

EX. GROUND



STANDARD CURB WITH 250 mm GUTTER SCALE N.T.S.



NOTES:

1. WHERE CONCRETE SIDEWALK IS TO BE REPLACED MATCH EXISTING CONDITIONS.

. SLOPE SIDEWALK AT 2% (MAX) TO DISCOURAGE STANDING WATER ON THE CONCRETE SIDEWALK. 3. SPECIFICATIONS ARE TO MINIMUM STANDARDS. CONSIDERATION MUST BE GIVEN TO ADDRESS ACTUAL SOIL CONDITIONS AND ASSESS THE NEED FOR GRAVEL BASE. THICKER SLAB, REINFORCEMENT OR SUB-DRAINAGE

CONCRETE SIDEWALK

SCALE N.T.S.

5A MANHOLE ASSEMBLY FOR SPIGOT-UP INSTALLATIONS

DRUMHELLER



	Rev	Date	Des Dwr	Chk	Description	Rev	Date	Des	Dwn	n Chk	Description	TOWN OF	DRUMHELLER		
PERMIT TO PRACTICE 1963401 ALBERTA LTD. RM SIGNATURE: 69046 DATE: Mar. 8, 2013 PERMIT NUMBER: P013638 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)	Α	2023-03-08	AO KS ES ISSUED FOR TEN		ISSUED FOR TENDER							SPRAY PARK DRAINAGE LINE IMPROVEMENT PROJECT			
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SCALE N.T.S.

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