

ADDENDUM A-03

Project:	Drumheller Flood Mitigation and Resiliency – Downtown Dike Phase 1
Addendum:	A-03 – High School Sidewalk and Pipe Backfill Detail
Date:	April 18, 2022
Location:	224 Centre Street Drumheller, Alberta

To All Bidders:

1. General

- 1.1. This addendum shall be read in conjunction with the Specifications prepared for the Request for Tender - Downtown Dike Phase 1 Project.
- 1.2. This addendum includes the following topics:
 - 1.2.1. Sidewalk Detail for the High School
 - 1.2.2. Revised Backfill Detail for All Pipes

1. A – Sidewalk Detail

Drawing C-801 has been included as an attachment to this Addendum. This detail provides the necessary information to plan and price the construction of the approximate 872 m² of sidewalk required to be installed along the High School perimeter. Refer to item 3.46 in the 'Measurement Schedule' provided in 'Section 01280' of the contract documents for additional information.

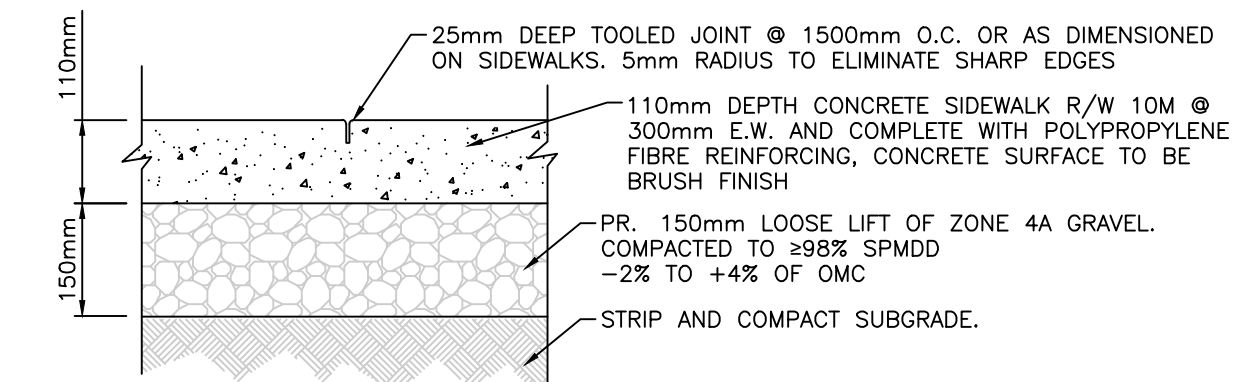
2. A – Revised Backfill Detail for All Pipes

Drawing C-505 has been included as an attachment to this Addendum. This detail supersedes the City of Calgary Standard Specifications Sewer Construction "Bedding and Backfill Details for Rigid Pipe" and the Bentonite Cut-off Collar details on Drawing C-504 of SweetTech's IFT Drawing Package (Details 3 and C). The revised trench backfill detail minimizes granular bedding/backfill around the pipe and prescribes that the pipes be backfilled with Zone 1A Impervious Fill. It also prescribes a smaller bentonite seepage cut-off trench on the underside of the pipes, intended to cut-off seepage through the bedding sand. This trench backfill detail and bentonite seepage cut-off are applicable for all new outfalls and outfall extensions for the Downtown Dike.

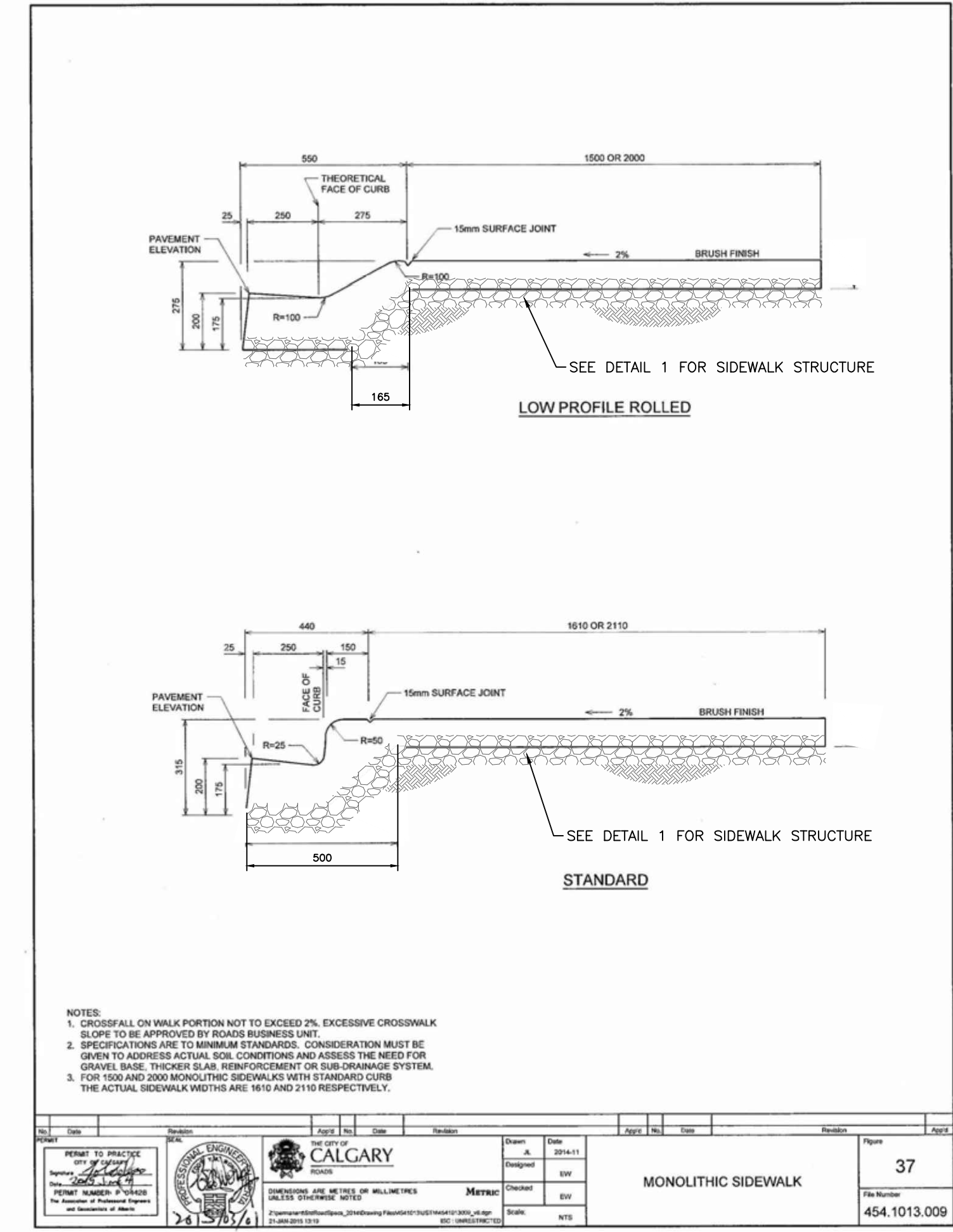
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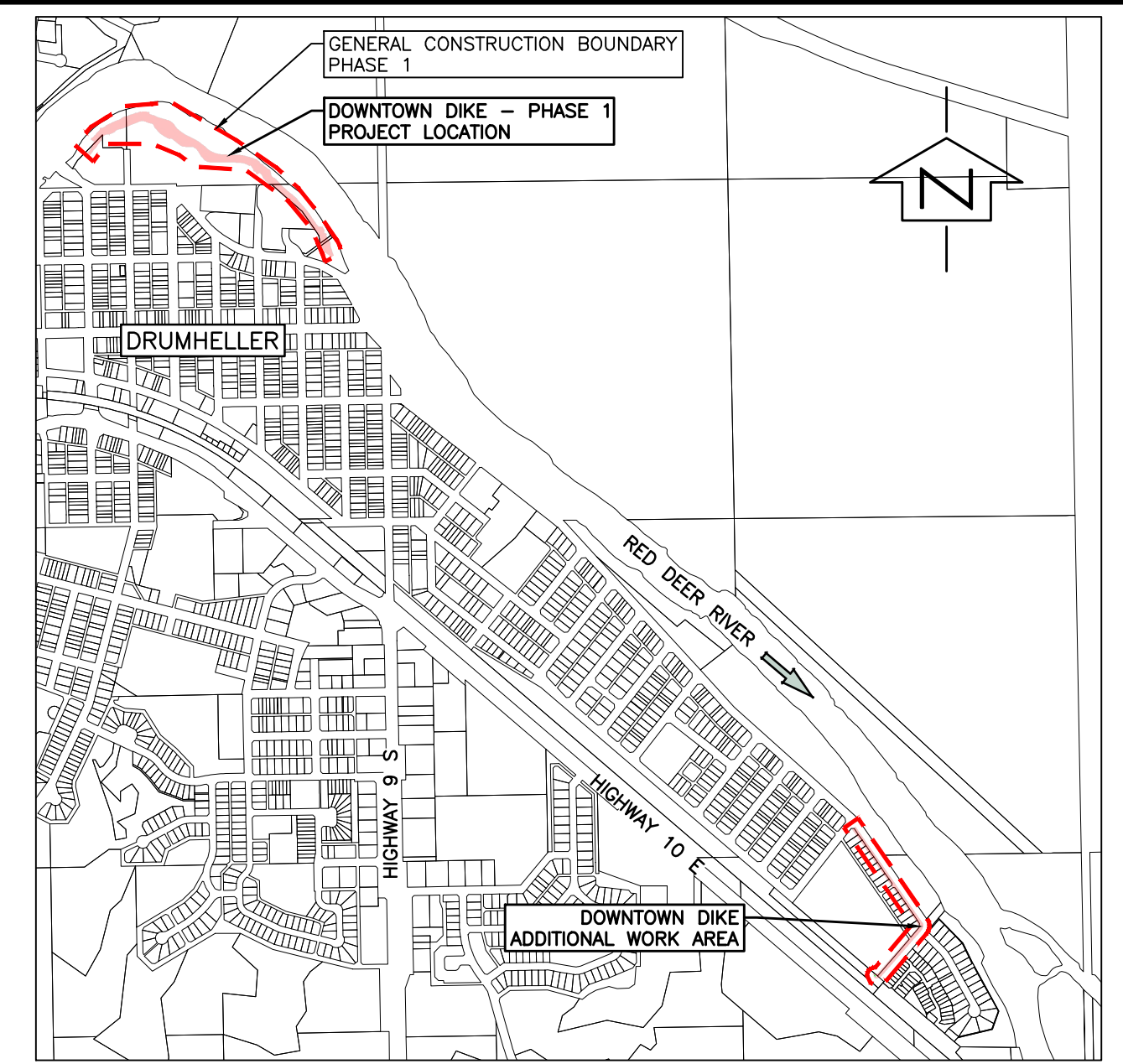
- REFERENCE:**
- 2019 AERIAL IMAGERY PROVIDED BY DRUMHELLER RESILIENCY AND FLOOD MITIGATION OFFICE.
 - PROJECT COORDINATE SYSTEM CANAB3-STM114
- NOTES:**
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO PROJECT SPECIFICATIONS, AND RELEVANT CITY OF CALGARY STANDARD SPECIFICATIONS & DRAWINGS, UNLESS NOTED OTHERWISE. WHEN A CONFLICT BETWEEN SPECIFICATIONS ARISES, DISCUSS ANY UNCERTAINTIES WITH THE ENGINEER PRIOR TO CONSTRUCTION AND/OR INSTALLATION.
 - 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.
 - ALL AFFECTED RESIDENTS AND BUSINESSES SHALL BE NOTIFIED IN WRITING A MINIMUM OF 7 BUSINESS DAYS PRIOR TO ANY SCHEDULED ACCESS AND/OR SERVICE DISRUPTIONS.
 - CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN AND PEDESTRIAN MANAGEMENT PLAN (I.E. TRAIL DETOUR PLAN) TO ADDRESS CONSTRUCTION IMPACTS.
 - DURING CONSTRUCTION, ENSURE ALL OH&S REGULATIONS ARE FOLLOWED, CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALBERTA OCCUPATIONAL HEALTH AND SAFETY REPORTS, IF APPLICABLE.
 - SITE SECURITY IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR SECURITY IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR CONTRACTOR COMPLIANCE.
 - ENSURE THE CURRENT MUNICIPAL OH&S GROUND DISTURBANCE PRACTICE AND PROCEDURES ARE FOLLOWED. CONTACT ALBERTA ONE CALL FOR EXTERNAL UTILITY LOCATES AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
 - CONFIRM ALL EXISTING SERVICES, CONNECTIONS AND CROSSING POINTS AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION ON ANY SUCH ITEM. NOTIFY THE ENGINEER SHOULD CONFLICTS BE FOUND.
 - TEMPORARY SIGNAGE AND FENCING MAINTENANCE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - ADJUST ALL EXISTING AND NEW APPURTENANCES TO MEET THE FINAL DESIGN GRADES.
 - RESTORE ALL THE AREAS AFFECTED BY CONSTRUCTION WORKS TO THEIR ORIGINAL CONDITION OR BETTER.
 - REFER TO SECTION 02234 - TOPSOIL & SUBSOIL STRIPPING FOR SPECIFICATION FOR TOPSOIL STRIPPING AND HANDLING
 - REFER TO SECTION 02315 - EXCAVATION FOR SPECIFICATIONS REGARDING EXCAVATIONS
 - REFER TO SECTION 02315 - FILL PLACEMENT FOR SPECIFICATIONS REGARDING EX. SUBGRADE PREPARATION & GRAVEL PLACEMENT/COMPACTION
 - REFER TO CITY OF CALGARY ROAD CONSTRUCTION STANDARD SPECIFICATION SECTION 311.00.00 FOR THE REQUIRED CONCRETE MIX PROPERTIES.



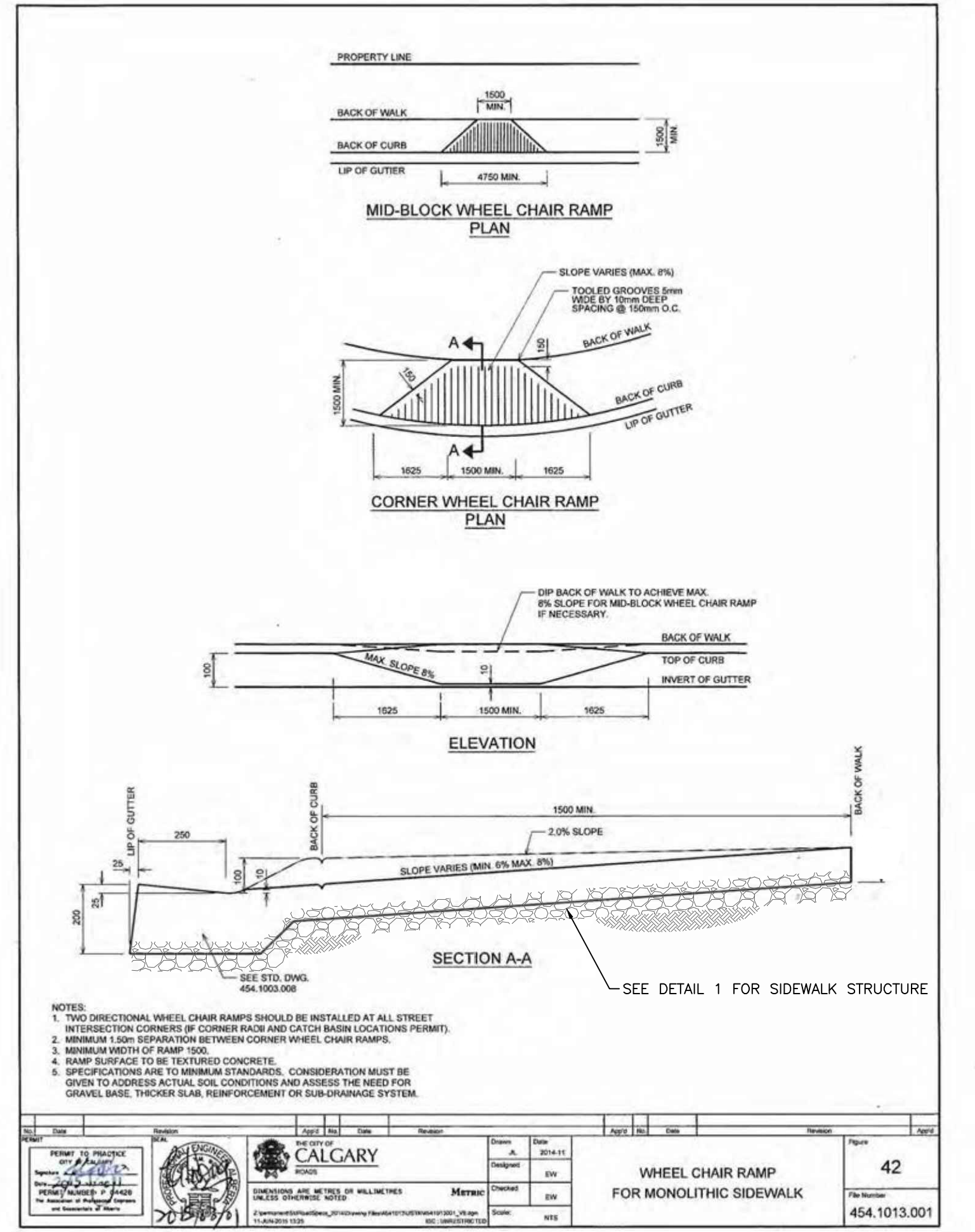
① MONOLITHIC SIDEWALK STRUCTURE
N.T.S.



② MONOLITHIC SIDEWALK
N.T.S.



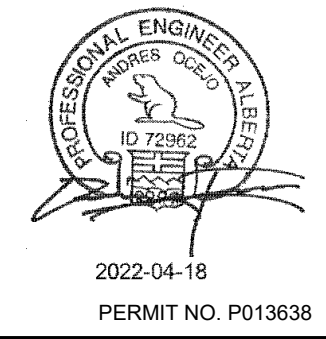
KEY PLAN
1:15000



③ WHEEL CHAIR RAMP FOR MONOLITHIC SIDEWALK
N.T.S.

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0	22/4/18	AO	GM	ES	ISSUED FOR ADDENDUM #1						

TOWN OF DRUMHELLER DOWNTOWN DIKE - PHASE 1 PR. SIDEWALK SITE PLAN											
Project No. 21.2311.002						Drawing No. C-801					
Group CIVIL						Rev. 0					

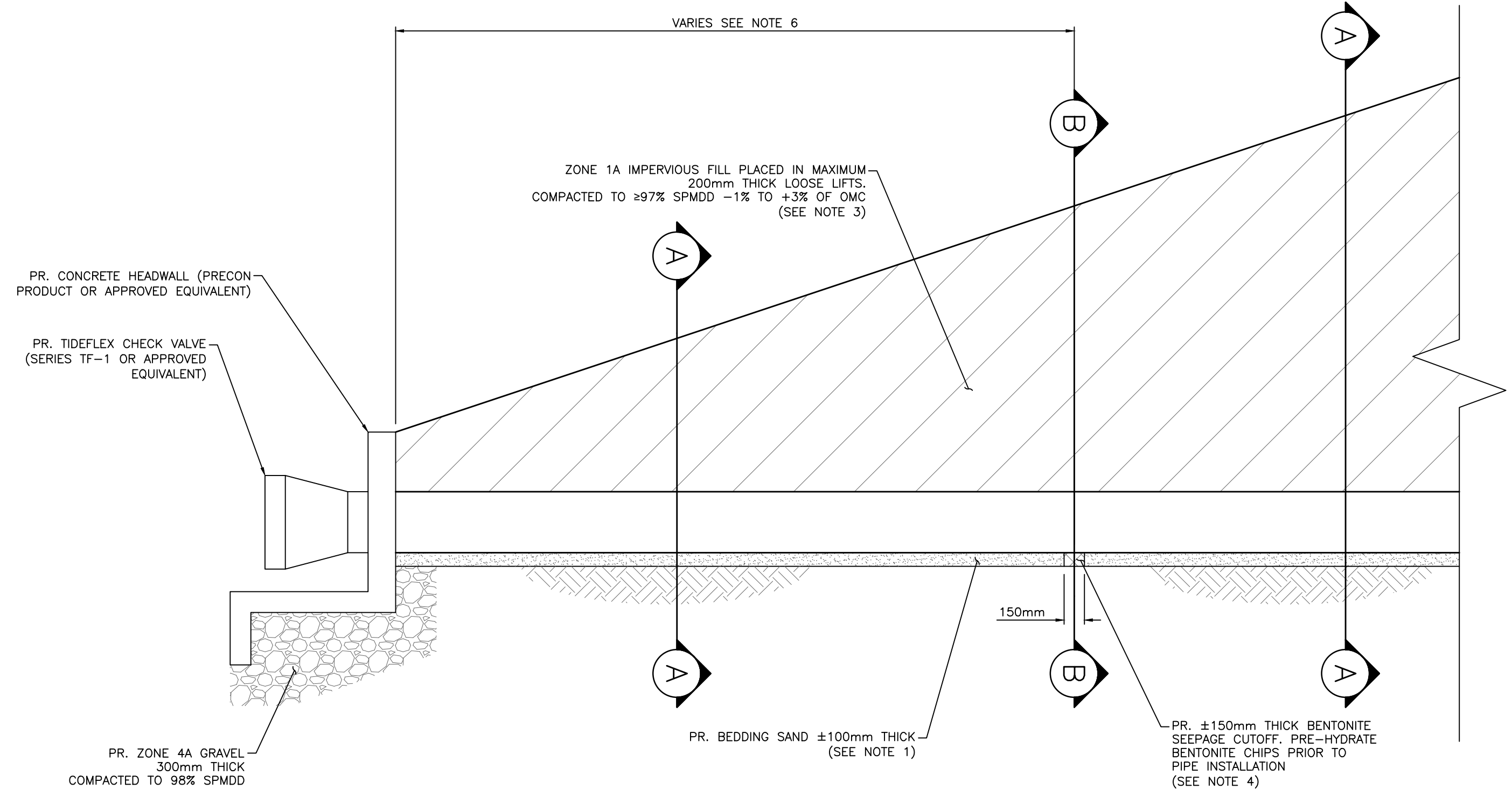


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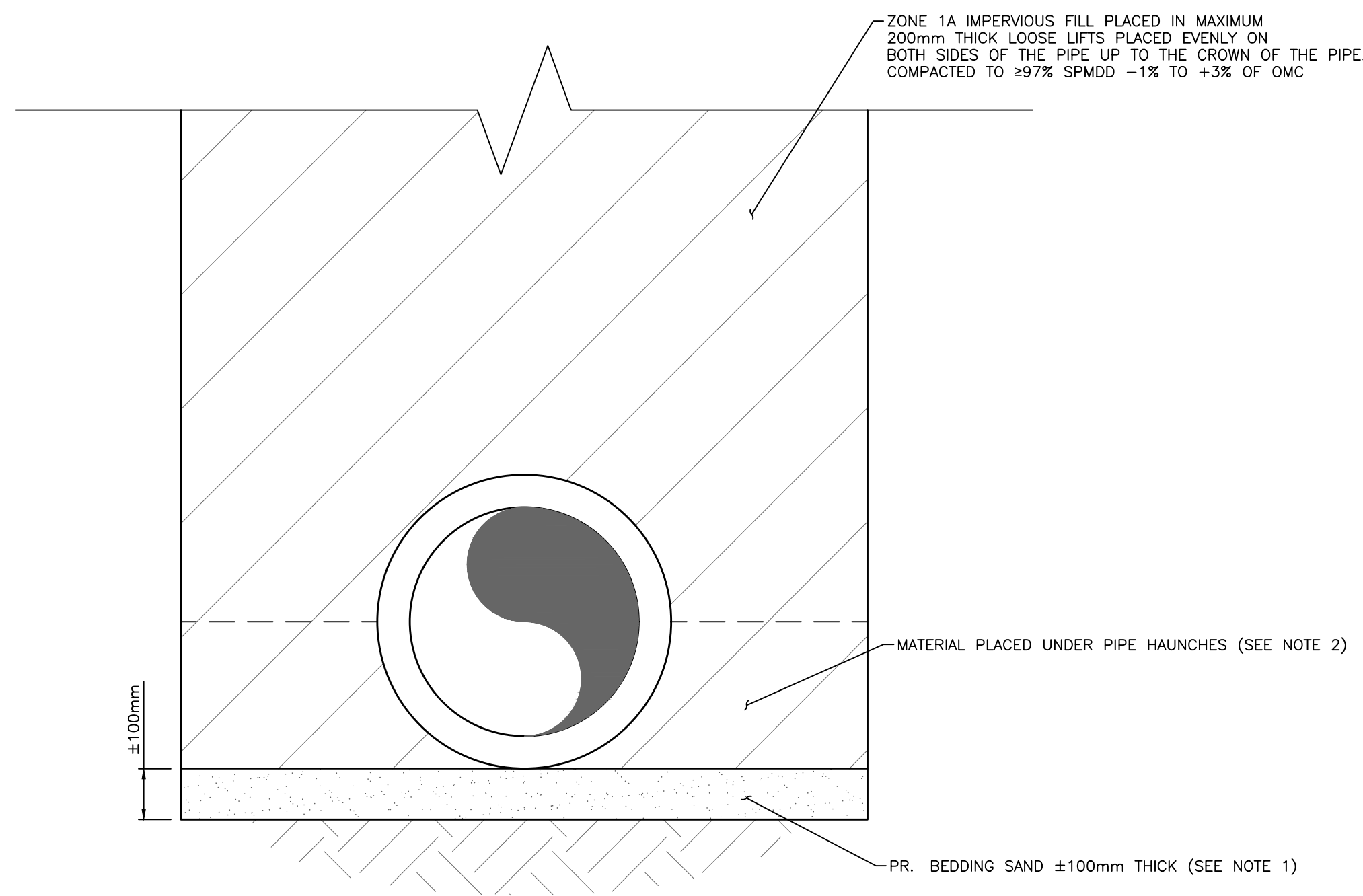
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THIS DRAWING IS PREPARED FOR THE SOLE USE OF TOWN OF DRUMHELLER CONSULTANTS OR ITS EMPLOYEES TO ANY PARTY WITH WHOM SWEETECH ENGINEERING CONSULTANTS DOES NOT HAVE A CONTRACT.

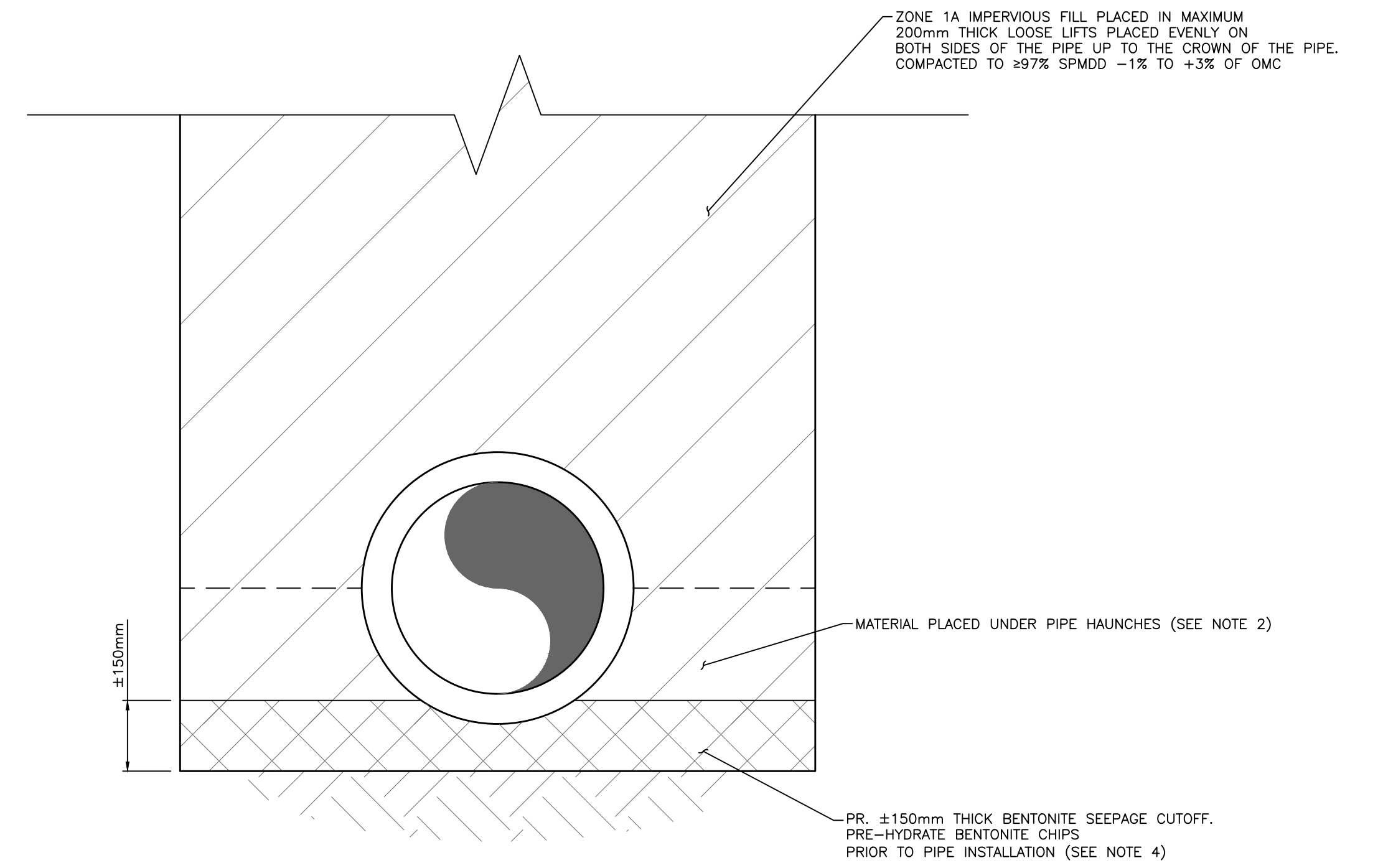
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TYPICAL PIPE BEDDING - DETAIL
N.T.S.



A PIPE BEDDING - SECTION
N.T.S.

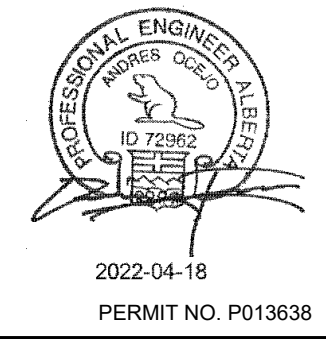


B BENTONITE SEEPAGE CUTOFF - SECTION
N.T.S.

NOTES:

- PIPE BEDDING SAND IS TO BE LIGHTLY TAMPED IN PLACE AND USED AS A LEVELING COURSE TO ENSURE THE ENTIRE PIPE LENGTH IS FULLY SUPPORTED AND THERE ARE NO VOIDS UNDERNEATH THE PIPE.
- MATERIAL PLACED UNDER THE HAUNCHES OF THE PIPE IS TO BE CAREFULLY WORKED IN AND PACKED IN PLACE USING HAND TAMPING AND/OR A JUMPING JACK. MATERIAL UNDER THE HAUNCHES MUST BE PLACED AND COMPACTED PRIOR TO PLACEMENT OF THE REMAINDER OF THE BACKFILL AROUND THE PIPE.
- BEFORE USING HEAVY COMPACTION OR CONSTRUCTION EQUIPMENT DIRECTLY OVER THE PIPE, ENSURE THAT SUFFICIENT BACKFILL HAS BEEN PLACED OVER THE PIPE TO PREVENT DAMAGE.
- BENTONITE CHIPS USED FOR THE SEEPAGE CUTOFF ARE TO BE PRE-HYDRATED PRIOR TO THE INSTALLATION OF THE PIPE. THE ENGINEER OF RECORD IS TO INSPECT THE BENTONITE SEEPAGE CUTOFF PRIOR TO INSTALLATION OF THE PIPE.
- EXCAVATE THE TRENCHES TO THE ALIGNMENTS, DEPTHS, AND SLOPES AS SPECIFIED IN THE PROJECT DRAWINGS TO A UNIFORM WIDTH SUFFICIENTLY WIDE TO PROVIDE ADEQUATE WORKING ROOM FOR INSTALLATION AND COMPACTION OF BACKFILL.
- WHERE NEW OUTFALLS AND OUTFALL EXTENSIONS ARE PROPOSED, THE BENTONITE SEEPAGE CUTOFF IS TO BE INSTALLED APPROXIMATELY 5m-6m UP THE PIPE FROM THE HEADWALL. AT THE EXISTING 1200mm DIAMETER OUTFALL NEAR RIVERVIEW TERRACE, THE BENTONITE SEEPAGE CUTOFF WILL BE INSTALLED DURING THE EXTENSION OF THE PIPE INLET (FOR EASE OF INSTALLATION).

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0	22/4/18	AO	GM	ES	ISSUED FOR ADDENDUM #1

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TOWN OF DRUMHELLER
DOWNTOWN DIKE - PHASE 1
DETAILS - PIPE TRENCH BACKFILL

Project No. 21.2311.002	Drawing No.	Rev.
Group CIVIL		C-505 0