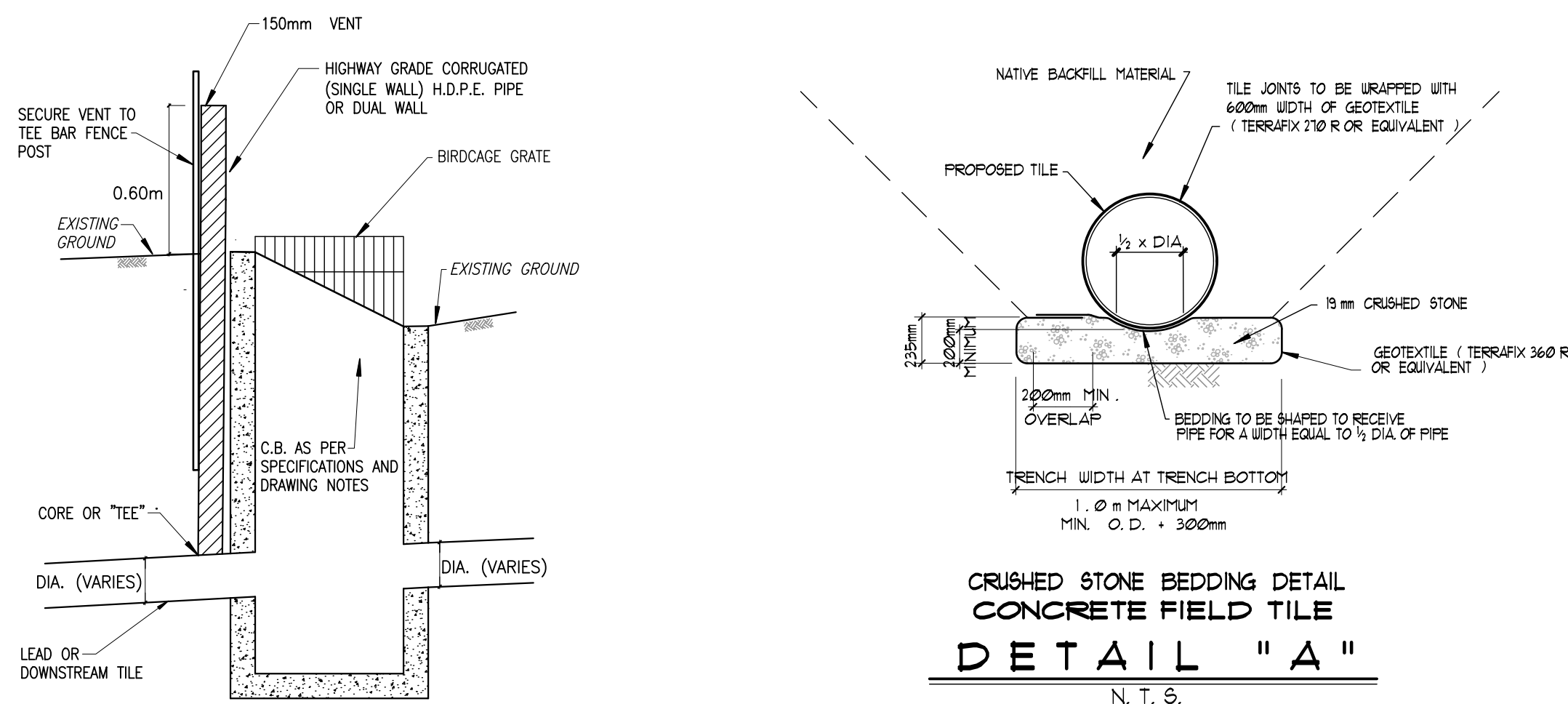
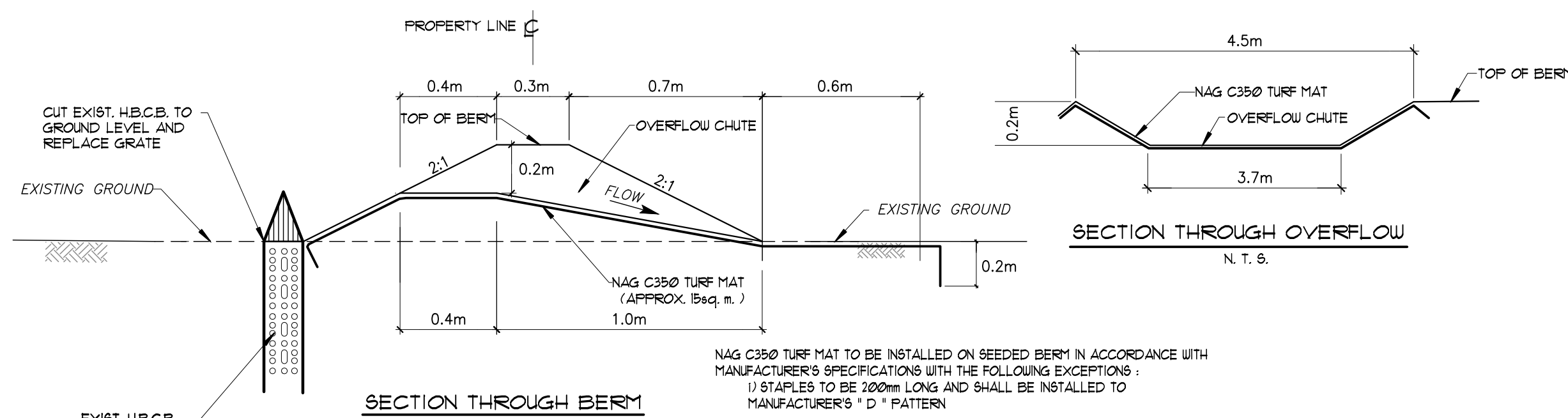
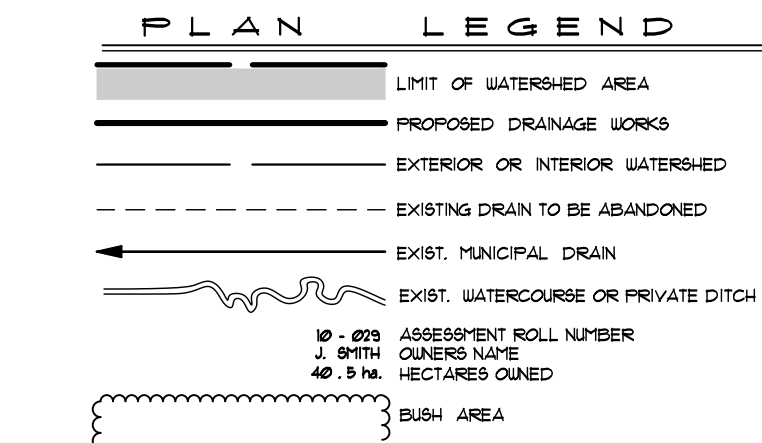




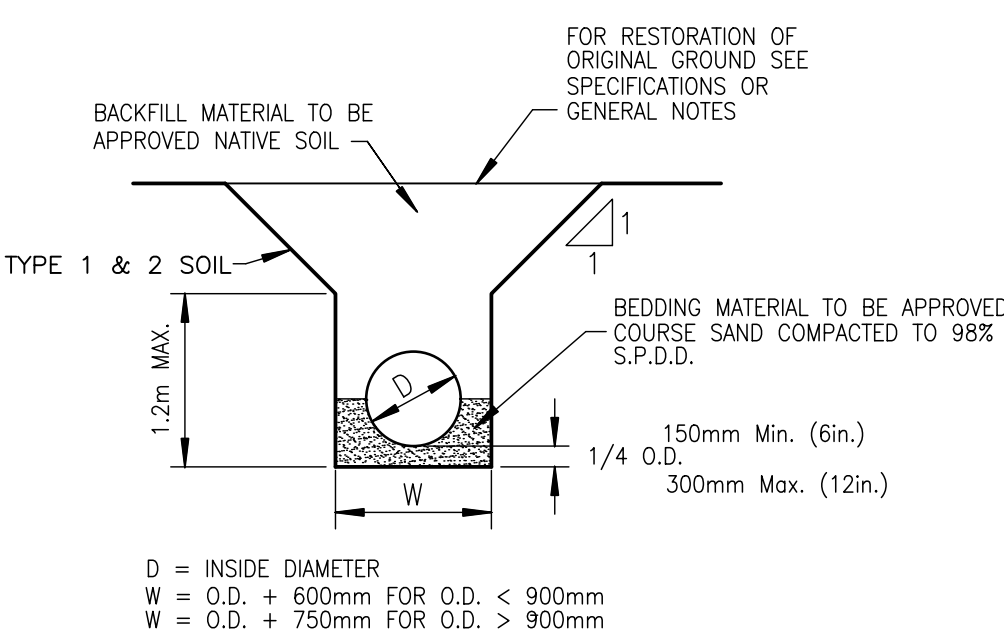
- a) ALL CONCRETE TILE, PLASTIC TILE, HDPE PIPE AND HDPE SUEWIR PIPE TO CONFORM TO "SECTION C. 1" IN THE SPECIFICATIONS.
- a) CONCRETE TILE SHALL BE HEAVY DUTY UNLESS SPECIFIED 2000 D OR 2400 D ON PROFILE.
- b) SUEWIR PIPE TO BE H. D. P. E. PLASTIC 320 KPA (BELL, 4 9/16" I.D. WITH RUBBER GASKETS, CONFORMING TO C.S.A. 1020-08), PVC ULTRA RIB OR PVC SDR 35
- c) HDPE PIPE SHALL BE DUAL WALL FLEXIBLE (COLLABLE, 9" I.D.) PIPE SUCH AS "GOLDFLEX", "ADS N-D FLEX" OR APPROVED EQUAL.
- d) ALL CATCHBASINS SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH "SECTION C. 16" IN THE SPECIFICATIONS, EXCEPT AS FOLLOWS:
 - a) CATCHBASINS TO BE CONNECTED TO MAIN TILE DRAIN WITH PRE-FABRICATED CONCRETE CATCHBASIN.
 - b) ALL NON ROAD DITCH NEET CATCHBASINS TO HAVE BERTS* (CONSTRUCTED WITH SUBSOLL) WITH OVERFLOW CHUTE PROTECTED WITH N. A. G. C350 TURF REINFORCEMENT MAT (SEE DETAIL "D")
 - c) ALL CATCHBASINS TO HAVE 100mm DIA. VERTICAL PIPE VENT IMMEDIATELY DOWNSTREAM, EXTENDING FOR 600mm ABOVE CATCHBASIN TOP. PIPE VENT TO BE HIGHWAY GRADE SINGLE OR DUAL WALL PLASTIC CONNECTED TO MAIN TILE WITH APPROVED FITTING. (SEE DETAIL "C")
- IV/ ALL PREFABRICATED FITTINGS SPECIFIED AS CONCRETE MAY BE SUBSTITUTED WITH SAME SIZE PLAST WHERE AVAILABLE BUT SHALL BE COMPLETELY ENCASED WITH 20 Mpa CONCRETE (MINIMUM 150mm THICKNESS).
- IV/ NEW TILE DRAINS TO BE LOCATED AS FOLLOWS :

M A I N D R A I N

 - a) STA. 0 + 000 to STA. 0 + 433 - IN NORTH SIDE OF EXISTING TILE
 - b) STA. 0 + 466 to STA. 0 + 541 + STA. 0 + 763 to STA. 1 + 200- NEW TILE DRAIN TO BE PLACED IN SAME AREA AS EXISTING TILE DRAIN WHERE POSSIBLE. EXIST. TILE TO BE DESTROYED AND EXPOSED TILE SHALL BE DISPOSED OF OFF - SITE (EXCEPT LAUN AREA).
 - c) LAUN AREAS - EXPOSED LOCATION TO BE DETERMINED AT THE TIME OF CONSTRUCTION BY DRAINAGE SUPERINTENDENT OR ENGINEER. EXISTING TILE TO BE DESTROYED.
- EXISTING TILE DRAINS TO BE EXPOSED IN AS MANY LOCATIONS AS ARE NECESSARY TO CONFIRM THEIR EXACT LOCATION AND ELEVATION PRIOR TO CONSTRUCTION, EXACT LOCATION TO BE CONFIRMED BY DRAINAGE SUPERINTENDENT OR ENGINEER.

- a) INSTALLATION OF TILE AND TRENCH WIDTHS SHALL BE IN ACCORDANCE WITH "SECTION C - TILE DRAIN" IN THE SPECIFICATIONS .
 - b) SEWER PIPE UNDER TRAVEL PORTION OF ROAD/S/LANEWAYS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILED DRAWING No. 02 IN THE SPECIFICATIONS .
 - c) ALL OTHER SEWER PIPE TO BE INSTALLED IN ACCORDANCE WITH DETAIL " B " .
 - d) ALL CONCRETE TILE AND TILE JOINTS TO BE WRAPPED WITH GEOTEXTILE IN ACCORDANCE WITH "SECTION C, B " IN THE SPECIFICATIONS .
 - e) NO CONSTRUCTION EQUIPMENT OR FARM MACHINERY SHALL CROSS OVER THE MOUNDED BACKFILLED TILE TRENCHES UNTIL SUFFICIENT SETTLEMENT HAS OCCURRED .
 - f) STRIP AND STOCKPILE TOPSOIL FROM CONSTRUCTION AREA (4 metre width) EXCEPT LANEWAYS & ROADS . EXCESS SPOIL TO BE LEVELLED AND TOPSOIL RELEVELLED OVER SPOIL, MOUNDED TRENCH AND REMAINING CONSTRUCTION AREA .
- 14/ RESTORATION OF LAUN AREA SHALL BE IN ACCORDANCE WITH "SECTIONS A, 14 AND C, 10" IN THE SPECIFICATION WITH THE FOLLOWING EXCEPTIONS:
- a) IT IS NOT NECESSARY TO STRIP TOPSOIL .
 - b) TRENCH OR BEDDING OF BACKFILLED WITH EXISTING NATURAL MATERIAL AND COMPACTED WITH EXCAVATOR TO REDUCE SETTLEMENT .
 - c) 100mm DEPTH OF IMPORTED FIRST QUALITY TOPSOIL IS TO BE LEVELLED OVER THE TRENCH AND ADJACENT AREAS DISTURBED BY CONSTRUCTION .
 - d) TOPSOILED AREAS TO BE SEEDED BY OLIVER .
- 15/ LANEWAYS TO BE RESTORED TO ORIGINAL CONDITION IN ACCORDANCE WITH SPECIFICATIONS .
- 16/ a) IT SHALL BE NOTED THAT AREAS OF POOR SOIL CONDITION MAY BE ENCOUNTERED ALONG THE COURSE OF THE DRAIN . IF SUCH CONDITIONS ARE ENCOUNTERED AND IF THE TRENCH WALLS AND/OR TRENCH BOTTOM AND/OR TRENCH BOTTOM BECOME UNSTABLE, THEN THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DRAINAGE SUPERINTENDENT OR ENGINEER .
- b) IF SO ORDERED BY THE DRAINAGE SUPERINTENDENT OR ENGINEER, THE CONTRACTOR SHALL INSTALL THE TILE OR PIPE ON A BEDDING OF 15mm (3/4 ") CRUSHED STONE THROUGH THE AREA OF UNSTABLE TRENCH . THE CRUSHED STONE SHALL BE COMPLETELY WRAPPED IN GEOTEXTILE SUCH AS TERRAPUR 360 OR APPROVED EQUIV. (SEE DETAIL "A") THE LIMITS OF THIS WORK SHALL BE DETERMINED BY THE DRAINAGE SUPERINTENDENT OR ENGINEER .
- c) PAYMENT FOR THIS WORK SHALL BE IN ACCORDANCE WITH THE CONTINGENCY AMOUNTS SHOWN IN THE " FORM OF TENDER " .
- 17/ a) IF IT BECOMES IMPRACTICAL TO INSTALL THE NEW TILE IN THE EXISTING TILE LOCATION DUE TO EXISTING TILE ALIGNMENT AND/OR TOO MUCH WATER FLOWING THROUGH THE TILE, THEN THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND/OR THE DRAINAGE SUPERINTENDENT .
- b) IF SO ORDERED BY THE ENGINEER AND/OR DRAINAGE SUPERINTENDENT THEN THE CONTRACTOR SHALL INSTALL THE NEW TILE IMMEDIATELY ADJACENT TO THE EXISTING TILE . AFTER CONSTRUCTION IS COMPLETED THE EXISTING TILE SHALL BE DESTROYED WITH A RUBBER TIE BACKHOLE . TILE CONNECTIONS INTO THE EXISTING TILE SHALL BE CONNECTED TO THE NEW TILE .
- 18/ a) THE CONTRACTOR SHALL ENSURE THAT ALL TRIBUTARY DRAINS ARE CONNECTED DURING TIME OF CONSTRUCTION OF THE DRAINAGE TILE CONNECTIONS THAT ARE FOUND DURING THE WARRANTY PERIOD OF THE CONTRACT SHALL BE COMPLETED BY THE CONTRACTOR AND SHALL BE PAID THE AMOUNT SET OUT ON PAGE 2 OF THE " FORM OF TENDER" . NO ADDITIONAL PAYMENT FOR MOBILIZATION WILL BE ALLOWED. THE CONTRACTOR IS NOT RESPONSIBLE FOR COMPLETING MISSED TILE CONNECTIONS THAT ARE FOUND AFTER THE WARRANTY PERIOD FOR THE CONTRACT HAS EXPIRED .
- b) ALL TILE CONNECTIONS TO BE MADE WITH CORING MACHINE AND PLASTIC ADAPTOR OR PREFABRICATED FITTINGS .
- c) THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A LIST SHOWING STATIONS OF ALL TILE CONNECTIONS UPON COMPLETION OF CONSTRUCTION .
- 19/ SILT FENCE TO BE PLACED ACROSS DITCH DOWNHILL AT STA. 0 + 000 DURING CONSTRUCTION TO PREVENT SILT FROM FLOWING DOWNSTREAM AND ARE TO BE MAINTAINED AS NECESSARY DURING CONSTRUCTION . SILT FENCE AND SILT TO BE REMOVED AND DISPOSED OF AFTER CONSTRUCTION .

- 20/ EXISTING DITCH BOTTOM ONLY TO BE CLEANED OUT IN ACCORDANCE WITH SPECIFICATIONS UNLESS OTHERWISE NOTED ON PROFILES AND IN SECTIONS.
- 21/ WORK TO BE COMPLETED FROM AND EXCAVATED MATERIAL TO BE DEPOSITED AND LEVELED ON SOUTH SIDE OF THE DITCH IN ACCORDANCE WITH "SECTION B. 5" IN THE SPECIFICATIONS .
- 22/ A 2' 1" METER WIDE BUFFER STRIP OF NEW & EXISTING VEGETATION BETWEEN THE TOP OF THE BANK AND THE CULTIVATED LANDS ON BOTH SIDES OF THE DITCH SHALL BE MAINTAINED AS PART OF THE OPEN PORTION OF THE DRAIN .
- 23/ NEWLY EXPOSED DITCH BANKS ARE TO BE HAND SEEDED UPON COMPLETION OF CONSTRUCTION IN ACCORDANCE WITH "SECTION B. 11" IN THE SPECIFICATIONS
- 24/ SILT FENCE TO BE PLACED ACROSS DITCH BOTTOM AT STA. 0+000 DURING CONSTRUCTION. SILT FROM FLUSHING AND EROSION SHALL BE MAINTAINED AS NECESSARY DURING CONSTRUCTION. SILT FENCE AND SILT TO BE REMOVED AND DISPOSED OF AFTER CONSTRUCTION .



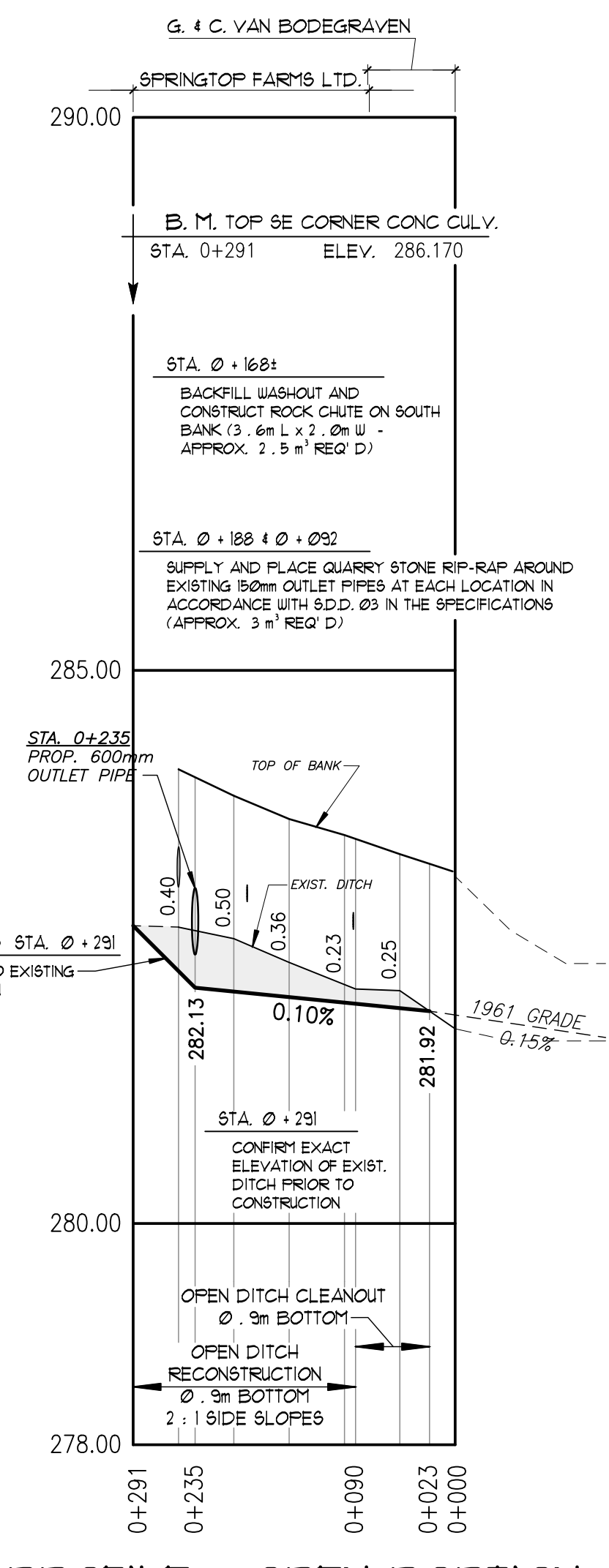
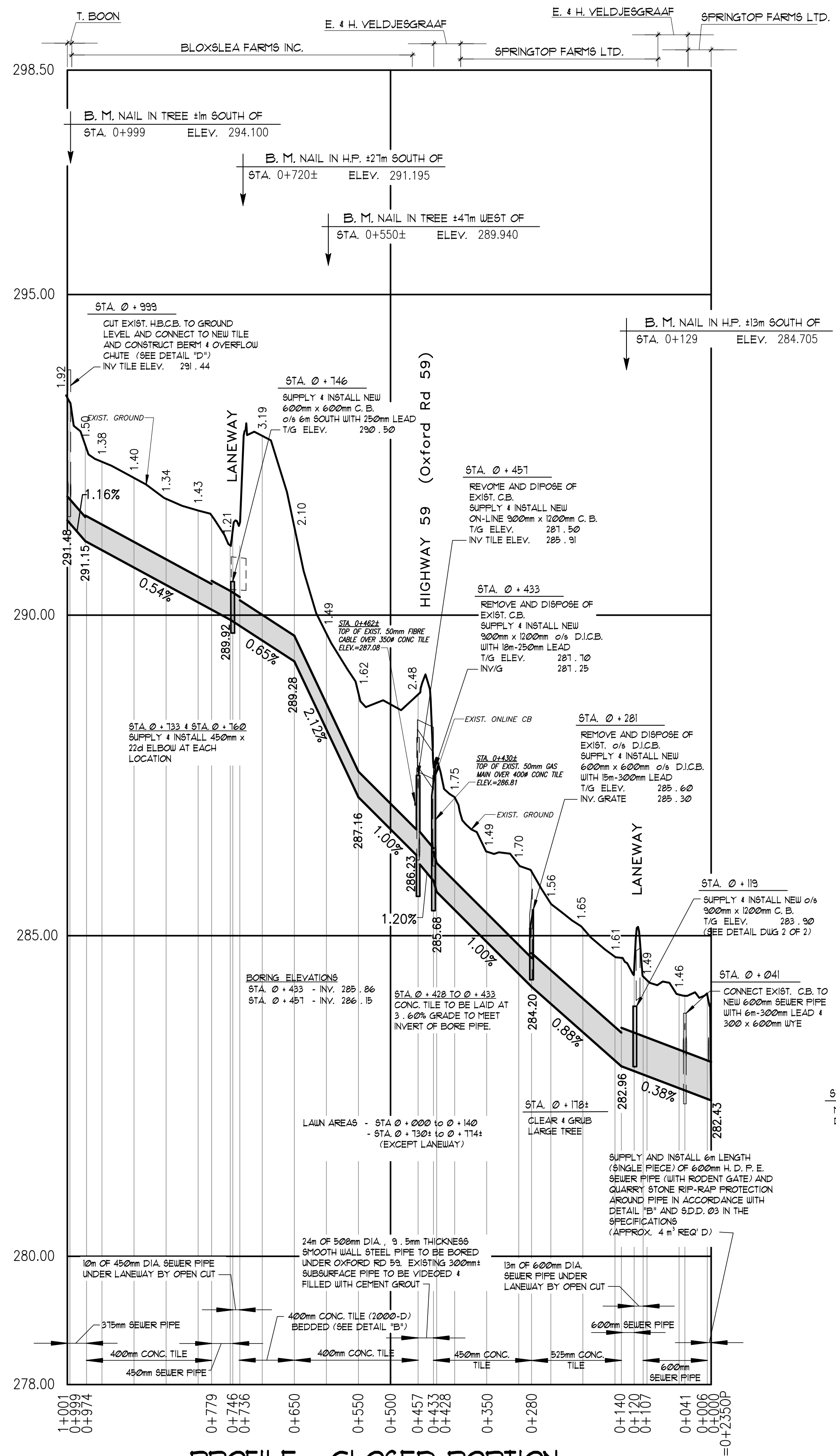
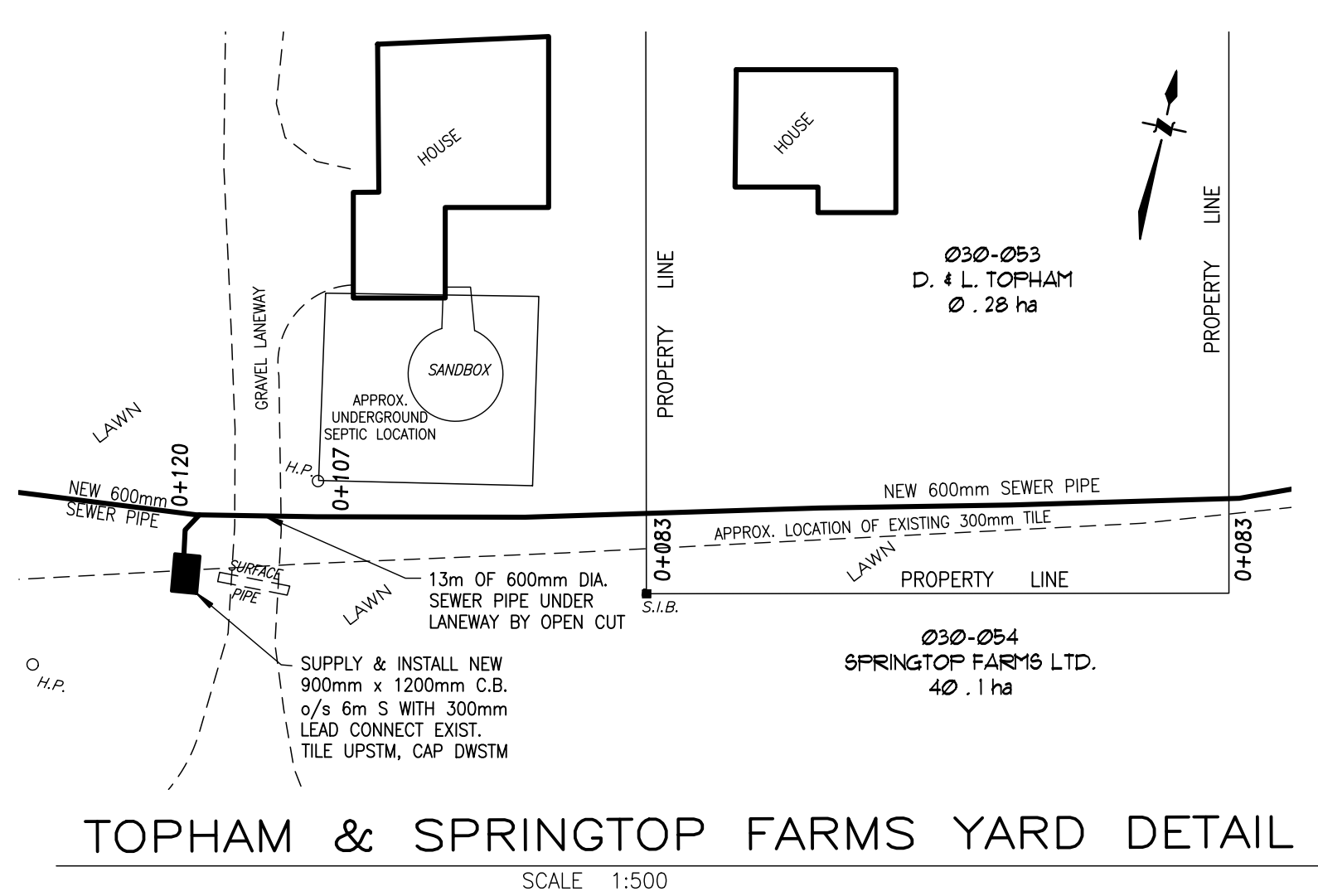
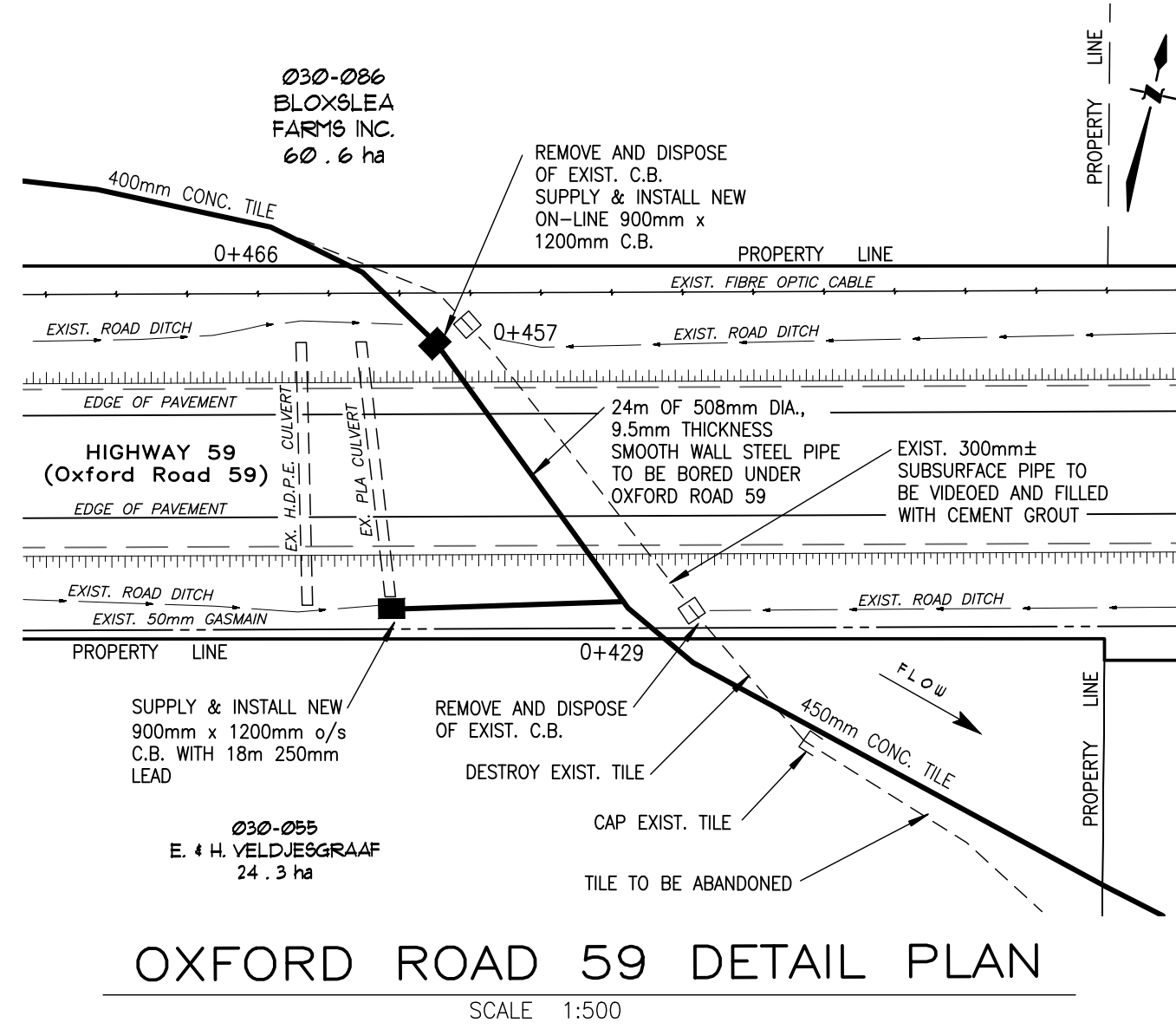
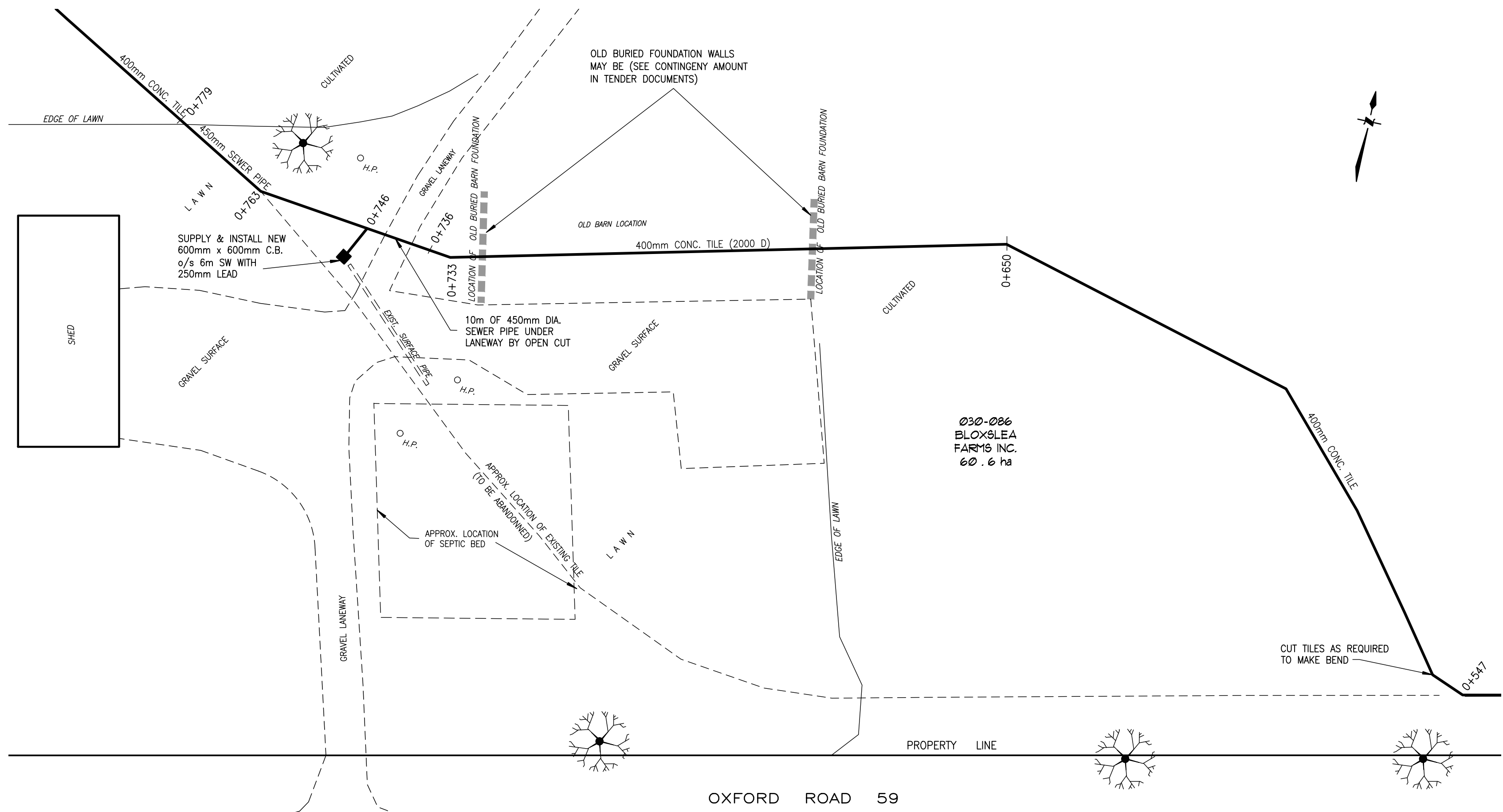
DETAIL "B"

Drainage Superintendent:	No.	REVISIONS	DATE
DIRK KRAMER			
519-667-2000 EXT. 7622			



Drawn By: ld	Field Book	JOB No.	Drawing No.
Date: NOV. 20, 2025	D-281/D-282	225056	1 of 2

SPRIET ASSOCIATES
LONDON
CONSULTING  **LIMITED**
155 YORK STREET --LONDON (519) 672-4100--N6A 1A8



FRAIN DRAIN 2025
Township of Norwich

Drainage Superintendent: DIRK KRAMER 519-667-2000 EXT. 7622	No.	REVISIONS	DATE
Drawn By: ld	Field Book	JOB No. 225056	Drawing No. 2 of 2
Date: NOV. 20, 2025	D-281/D-282		
PROFILES & DETAILS			
SPRIET ASSOCIATES LONDON CONSULTING ENGINEERS 155 YORK STREET - LONDON (519) 672-4100 - NEA 1A8			