

STONE SIZE — THE STONE PAD SHALL BE A MIN. 450mm THICK. USE 50mm STONE OR RECLAIMED CONCRETE EQUIVALENT FOR FIRST 10m FROM ADJACENT ROAD & 150mm STONE. FOR REMAINDER OF STONE PAD.

LENGTH — AS REQUIRED BUT NOT LESS THAN 20m.

WIDTH — 4m MIN. BUT NOT LESS THAN THE WIDTH AT POINTS WHERE INGRESS. AND EGRESS OCCURS. GEOTEXTILE FABRIC (TERRAFIX 270R OR EQUAL) WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.

SURFACE WATER — ALL SURFACE WATER FLOWING OR DIRECTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.

MAINTENANCE — THE CONTRACTOR SHALL MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR. UPON OBSERVATION OF CONTINUOUS MUD TRACKING ONTO ADJACENT STREETS, THE STONE MAT IS TO BE FULLY REPLACED.

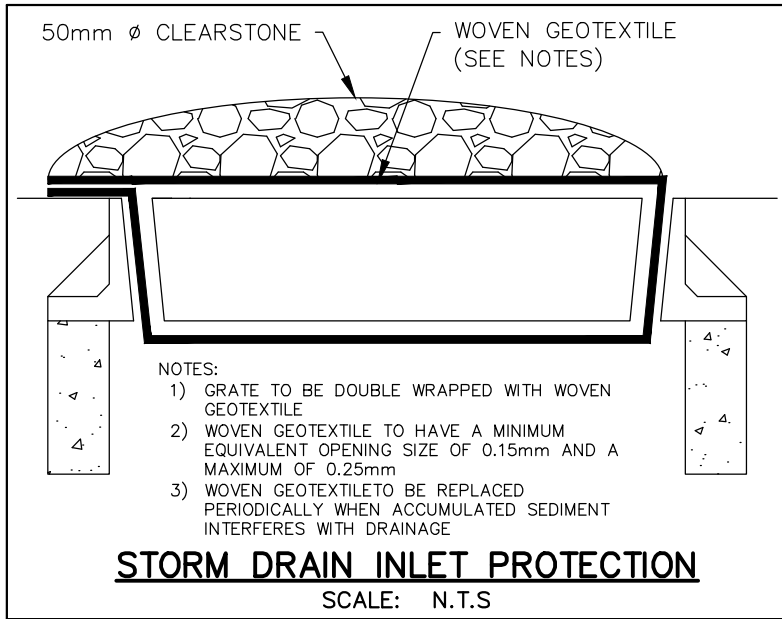
WASHING — WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

INSPECTION AND REQUIRED MAINTENANCE AFTER EACH RAIN SHALL BE PROVIDED BY THE CONTRACTOR.

STONE MUD MAT DETAIL

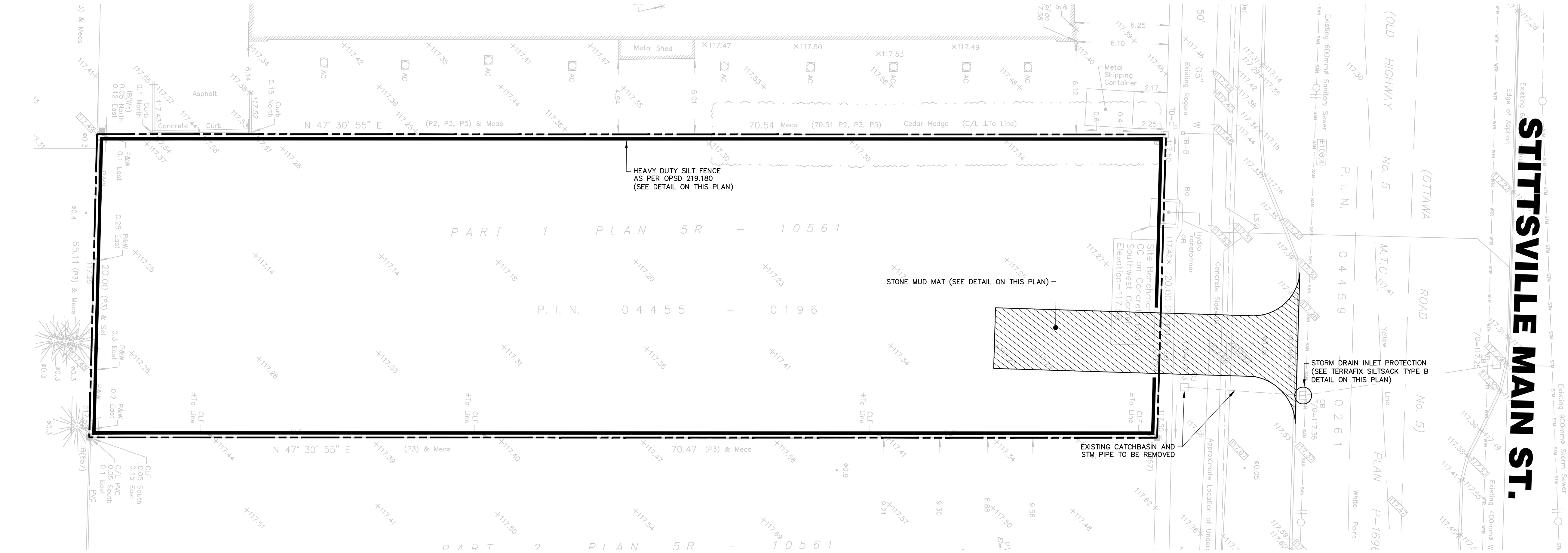
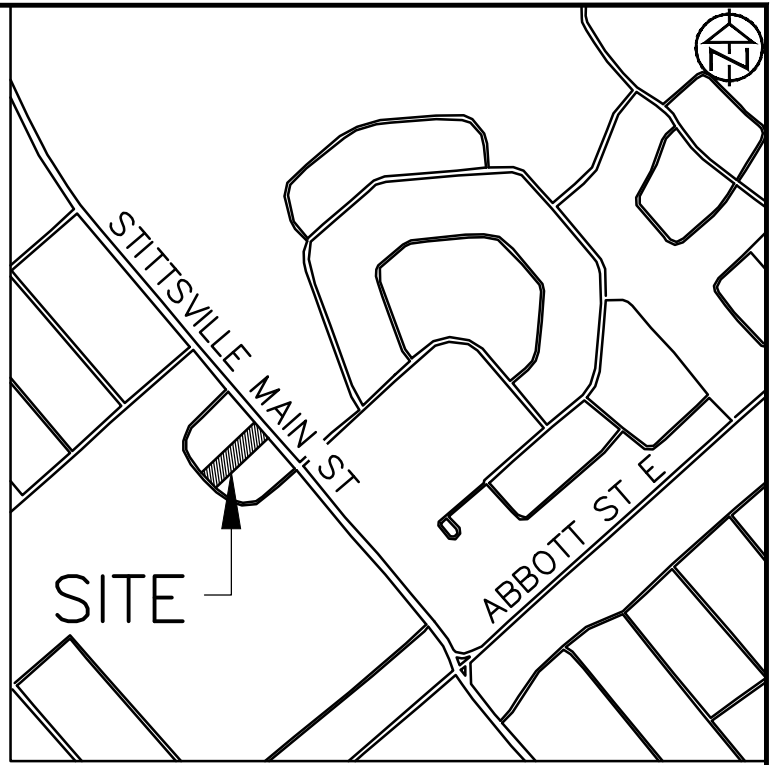
SCALE: N.T.S.

1. CONTRACTOR TO INSTALL AND MAINTAIN SILT FENCE AT LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. CONTRACTOR TO ARRANGE PRE-CONSTRUCTION MEETING WITH ENGINEER AFTER PLACING ALL SILTATION CONTROL WORKS.
3. SILTATION AND EROSION CONTROL WORKS MUST BE INSTALLED PRIOR TO CONSTRUCTION.
4. ALL SEDIMENT CONTROL WORKS MUST BE CLEANED AND MAINTAINED AFTER EACH MAJOR STORM EVENT OR AS DEEMED NECESSARY BY THE ENGINEER.
5. THE CONTRACTOR WILL INSPECT THE SEDIMENT AND EROSION CONTROL MEASURES WEEKLY AND AFTER EACH MAJOR STORM EVENT. THE CONTRACTOR WILL NOTIFY THE ENGINEER OF CORRECTIVE ACTIONS REQUIRED AS SOON AS DEFICIENCIES ARE NOTED. THE CONTRACTOR MAINTAINS ULTIMATE RESPONSIBILITY TO ENSURE PROPER SEDIMENT AND EROSION CONTROL MEASURES ARE IMPLEMENTED AND MAINTAINED. ALL DEFICIENCIES AND CORRECTIVE MEASURES WILL BE DOCUMENTED IN A WEEKLY INSPECTION REPORT. A COPY OF THE WEEKLY INSPECTION REPORT WILL BE PROVIDED TO THE ENGINEER.
6. IF CONSTRUCTION IS INTERRUPTED AND/OR INACTIVITY EXCEEDS 30 DAYS, THEN STOCKPILED, STRIPPED OR EXPOSED AREAS MUST BE STABILIZED BY HYDROSEEDING AND ANY OTHER APPROPRIATE GEOTEXTILE MATERIAL, IF REQUIRED.
7. REMOVAL OF ALL SILT FENCES AT THE END OF CONSTRUCTION TO BE APPROVED BY THE ENGINEER AFTER THE SITE HAS STABILIZED.
8. ALL SILT FENCE TO OPSD 219.130.
9. CLEARING OF VEGETATION AND TREE COVER IS TO OCCUR OUTSIDE OF BIRD BREEDING SEASON AS RECOMMENDED BY ENVIRONMENT CANADA (APRIL 15 — AUGUST 15)
10. ALL SIDE SLOPES 3:1 OR GREATER ARE TO BE STABILIZED IMMEDIATELY WITH HYDROSEED (USING A NATIVE SEED MIX) UNLESS OTHERWISE NOTED. USE OF AN EROSION CONTROL BLANKET SUCH AS TERRAFIX S-100 (OR APPROVED EQUAL) IS RECOMMENDED IF CONSTRUCTION OCCURS OUTSIDE OF THE GROWING SEASON.

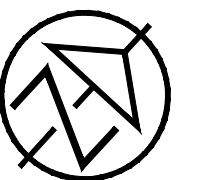
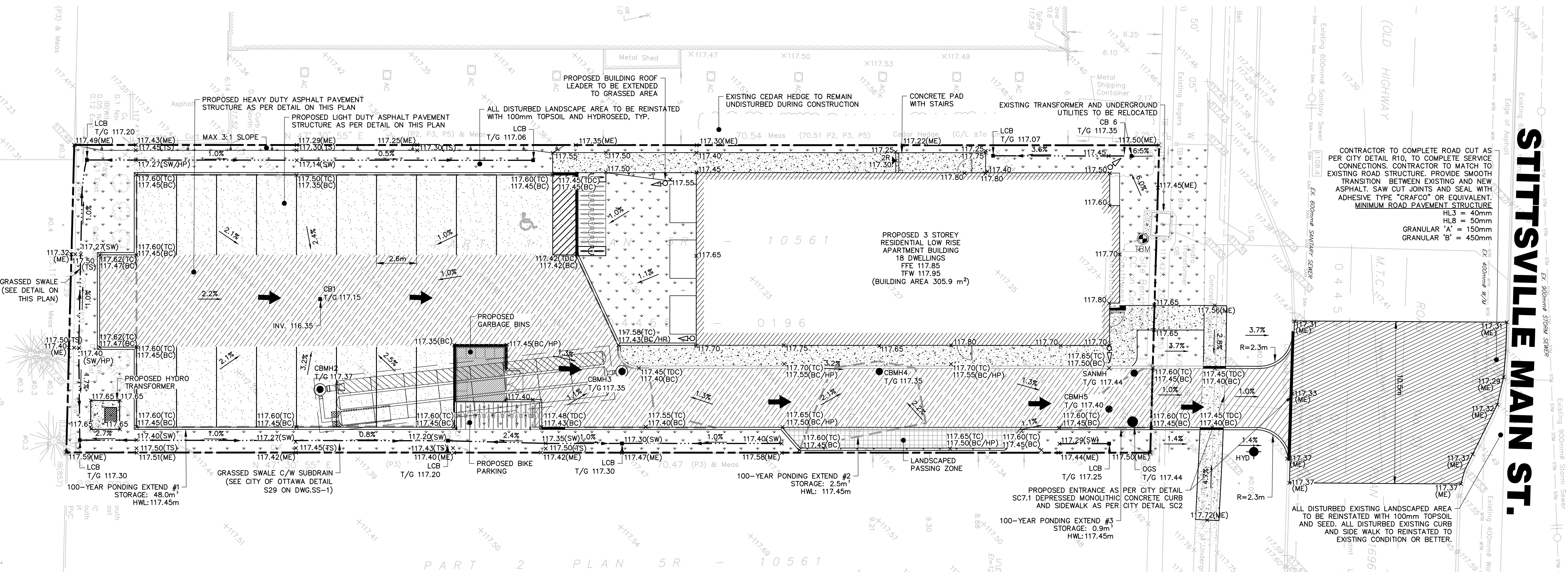
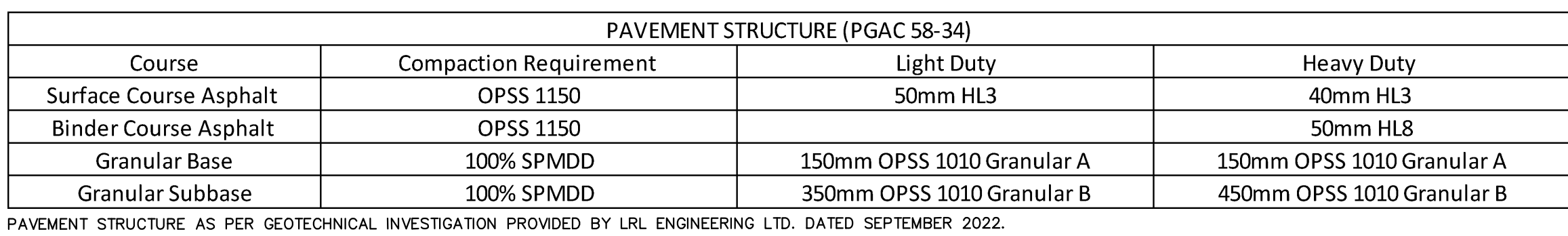


SCHEDULE OF CONSTRUCTION WORKS

1. IMPLEMENTATION OF EROSION CONTROL MEASURES AS SPECIFIED ON THIS PLAN
2. REMOVALS AS SPECIFIED ON THIS PLAN
3. TOPSOIL STRIPPING AND STOCKPILING
4. EARTH EXCAVATION AND GRADING







# STITTSVILLE MAIN ST.

CONTRACTOR TO COMPLETE ROAD CUT AS  
PER CITY DETAIL R10, TO COMPLETE SERVICE  
CONNECTIONS. CONTRACTOR TO MATCH TO  
EXISTING ROAD STRUCTURE. PROVIDE SMOOTH  
TRANSITION BETWEEN EXISTING AND NEW  
ASPHALT. SAW CUT JOINTS AND SEAL WITH  
ADHESIVE TYPE "CRAFCO" OR EQUIVALENT.  
MINIMUM ROAD PAVEMENT STRUCTURE

	HL3 = 40mm
	HL8 = 50mm
GRANULAR 'A'	= 150mm
GRANULAR 'B'	= 450mm

ALL DISTURBED EXISTING LANDSCAPED AREA  
TO BE REINSTATED WITH 100mm TOPSOIL  
AND SEED. ALL DISTURBED EXISTING CURB  
AND SIDE WALK TO REINSTATED TO  
EXISTING CONDITION OR BETTER.

	PROPOSED CURB	× 262.25	PROPOSED ELEVATION		PROPOSED ROOF LEADER
	PROPOSED DEPRESSED CURB	× 262.25 (HP)	PROPOSED HIGH POINT ELEVATION		PROPOSED CATCHBASIN
	EXISTING CATCHBASIN	× 262.25 (ME)	PROPOSED ELEVATION MATCH EXISTING		PROPOSED LAWN CATCHBASIN
	EXISTING MANHOLE	× 262.25 (TC)	PROPOSED TOP OF CURB		PROPOSED CATCHBASIN MANHOLE
	PROPOSED OVERLAND FLOW ROUTE	× 262.25 (BC)	PROPOSED BOTTOM OF CURB		PROPOSED STORM MANHOLE
	PROPOSED HEAVY DUTY ASPHALT	× 262.25 (TW)	PROPOSED TOP OF RETAINING WALL		PROPOSED SANITARY MANHOLE
	PROPOSED LIGHT DUTY ASPHALT	× 262.25 (BW)	PROPOSED BOTTOM OF RETAINING WALL		PROPOSED OIL GRIT SEPARATOR
		× 262.25 (SW)	PROPOSED BOTTOM OF SWALE		PROPOSED DOOR ENTRANCE/EXIT
		× 262.25 (TS)	PROPOSED TOP OF SWALE		APPROXIMATE PROPERTY BOUNDARY
		× 262.25 (TDC)	PROPOSED TOP OF DEPRESSED CURB		100 YEAR HIGH WATER LEVEL

SCALE: 1:150


**DISCLAIMER AND COPYRIGHT**

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

TOPOGRAPHIC SURVEY WAS COMPLETED BY FARLEY,  
SMITH & DENNIS SURVEYING LTD. ON JANUARY 11  
2022.

ELEVATIONS ARE DERIVED FROM ONTARIO CONTROL  
MONUMENT 0011968U118, HAVING A PUBLISHED  
ELEVATION OF 126.180m

 TBM: CC ON THE SOUTHWEST CORNER OF THE  
HYDRO TRANSFORMER CONCRETE PAD. ELEV.  
117.58

APPLICANT:  
ELITE PROPERTY DEVELOPMENTS INC.

No.	REVISION DESCRIPTION	DATE
1.	ISSUED FOR SPA	JULY. 2024
2.	RE-ISSUED FOR SPA	SEPT. 2024
3.	RE-ISSUED FOR SPA	APR. 2025
4.	RE-ISSUED FOR SPA	JUL. 2025

ENGINEER STAMP



**1412 STITTSVILLE MAIN STREET  
TOWNSHIP OF STITTSVILLE**

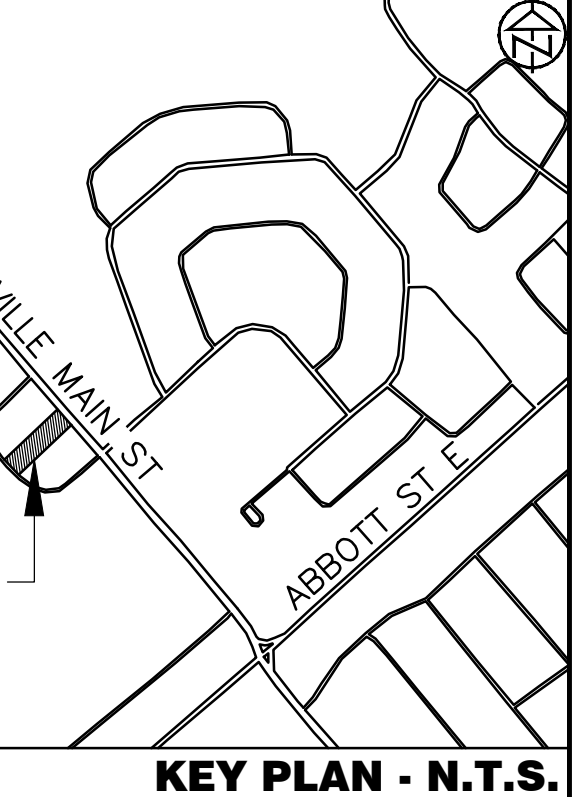
## SITE GRADING PLAN



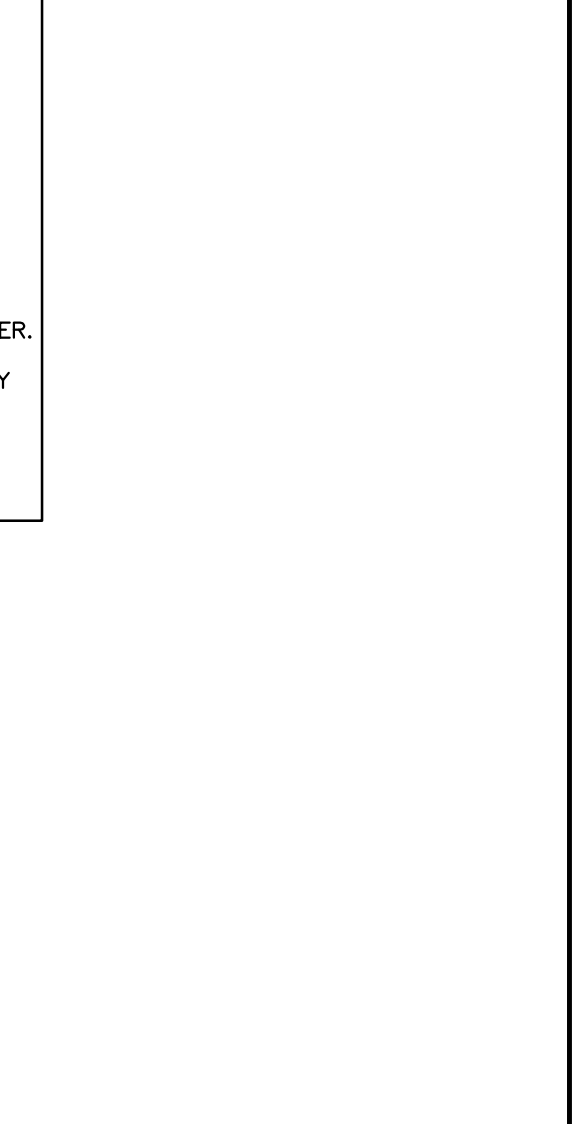
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CHECK: GC


**SG-1**





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 <b>TATHAM</b> ENGINEERING		
DESIGN: HY	FILE: 524659	DWG:   <b>SS-1</b>
DRAWN: HY	DATE: SEPT 2024	
CHECK: GC	SCALE: 1:150	



2. MEASUREMENTS
- A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE AND STRUCTURE DIAMETERS, WHICH ARE IN MILLIMETRES.
- B. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

4. ENTRANCE, DRIVE AISLES AND PARKING AREAS
- A. ALL TOPSOIL MUST BE STRIPPED FROM LANEWAY AND PARKING AREAS PRIOR TO CONSTRUCTION.
  - B. CONTRACTOR TO REMOVE ALL TOPSOIL AND ORGANIC MATERIAL LOCATED BELOW EXISTING FILL MATERIAL WITHIN THE LANEWAY AND PARKING AREAS. BACKFILL TO BE APPROVED ENGINEERED FILL OR NATIVE MATERIAL COMPACTED TO 95% SPMD. THE SUBGRADE SHOULD BE COMPACTED, PROOF ROLLED AND INSPECTED BY A GEOTECHNICAL ENGINEER.
  - C. GRANULAR 'B' SUBBASE TO BE PLACED IN 150mm MAXIMUM LOOSE LIFT AND COMPACTED TO 100% OF MATERIAL'S SPMD.
  - D. GRANULAR 'A' BASES TO BE PLACED IN 150mm MAXIMUM LOOSE LIFT AND COMPACTED TO 100% OF MATERIAL'S SPMD.
  - E. ALL ASPHALT MATERIAL AND PLACEMENT TO BE IN ACCORDANCE WITH OPSS 310.
  - F. PAVEMENT AND GRANULAR STRUCTURES SHALL BE AS PER PAVEMENT STRUCTURE TABLE ON DRAWING SG-1 AND GEOTECHNICAL RECOMMENDATIONS.
  - G. FROST TREATMENT FOR ALL STORM SEWERS IN ACCORDANCE WITH OPSS 803.030.
  - H. BOULDER TREATMENT TO OPSS 204.010.
  - I. TRANSITION TREATMENT FOR EARTH/ROCK CUT/FILL OPERATIONS TO OPSS 205.010, 205.020, 205.040, 205.050 ACCORDINGLY.

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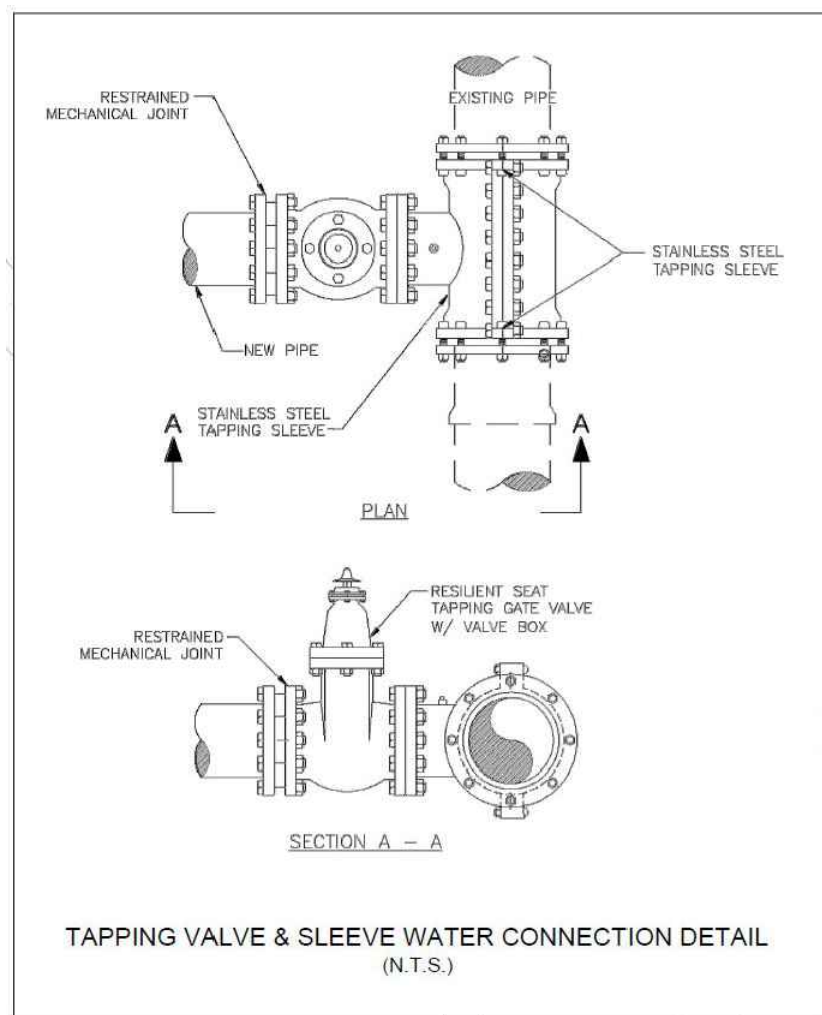
- ## 7. WATER SERVICES

- A. WATER SERVICE TO BE 100 MM DIA. BLUE PVC DR18 AND SHALL CONFORM TO THE LATEST EDITION OF AWWA C.900.
- B. CONNECTION TO MAIN SHALL BE VIA TAPPING VALVE AND SLEEVE AS PER DETAIL ON THIS DRAWING.
- C. MINIMUM COVER ON WATER SERVICE TO BE 2.4M.
- D. VALVE AND VALVE BOX AS PER CITY OF OTTAWA DETAIL W24.
- E. CONCRETE THURST BLOCKS OR APPROVED MECHANICALLY RESTRAINED JOINTS SHALL BE INSTALLED AT ALL BENDS, TEES AND CAPS AS PER CITY OF OTTAWA DETAIL W25.3.
- F. MINIMUM VERTICAL CLEARANCE BETWEEN WATER SERVICE AND ALL SEWER PIPE SHALL BE 0.3M (WALL TO WALL) PER CITY OF OTTAWA DETAIL W38. HORIZONTAL CLEARANCE SHALL BE A MINIMUM OF 0.3M. (WALL TO WALL). SEPARATION BETWEEN WATER PIPE AND OPEN STRUCTURES SHALL BE A MINIMUM OF 0.9M (WALL TO WALL) C/W THERMAL INSULATION AS PER CITY OF OTTAWA DETAIL W23.
- G. WATER SERVICE SHALL BE SWABBED, PRESSURE TESTED, DISINFECTED AND FLUSHED AT THE CONTRACTORS EXPENSE.

- UTILITIES**
- A. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE ONLY, ACTUAL LOCATION TO BE CONFIRMED BY CONTRACTOR.
- B. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING LOCATES AND INFORMATION IN REGARD TO EXACT LOCATION OF BURIED UTILITIES AND INFRASTRUCTURE. THIS SHALL INCLUDE HYDRO VACUUM EXCAVATION IF NECESSARY. THE CONTRACTOR MUST EXERCISE NECESSARY CARE IN CONSTRUCTION OPERATIONS INCLUDING IF NECESSARY HAND DIGGING TO SAFEGUARD UTILITIES AND ALL OTHER BURIED INFRASTRUCTURE FROM DAMAGE. THE CONTRACTOR IS LIABLE FOR ALL DAMAGE TO UTILITIES AND ALL BURIED INFRASTRUCTURE OCCURRING WITHIN OR OUTSIDE THE CONTRACT LIMITS CAUSED BY HIS OPERATIONS.
- C. ANY AREA OF POSSIBLE CONFLICTS WITH EXISTING UTILITIES SHALL BE EXCAVATED BY HAND PRIOR TO CONSTRUCTION.
- D. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO UTILITY CORPORATIONS PRIOR TO CROSSING UTILITIES FOR THE PURPOSE OF INSPECTION BY THE CONCERNED CORPORATION. THIS INSPECTION WILL BE FOR THE DURATION OF CONSTRUCTION WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.

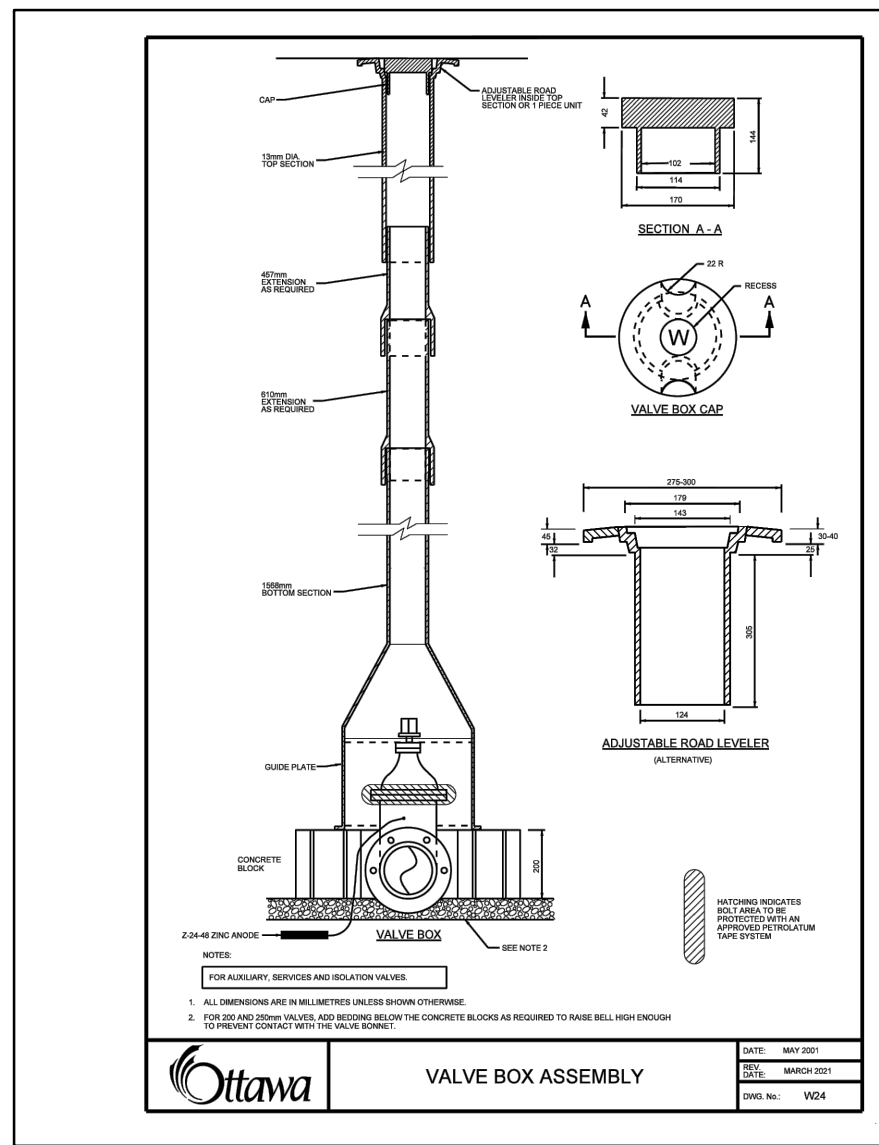
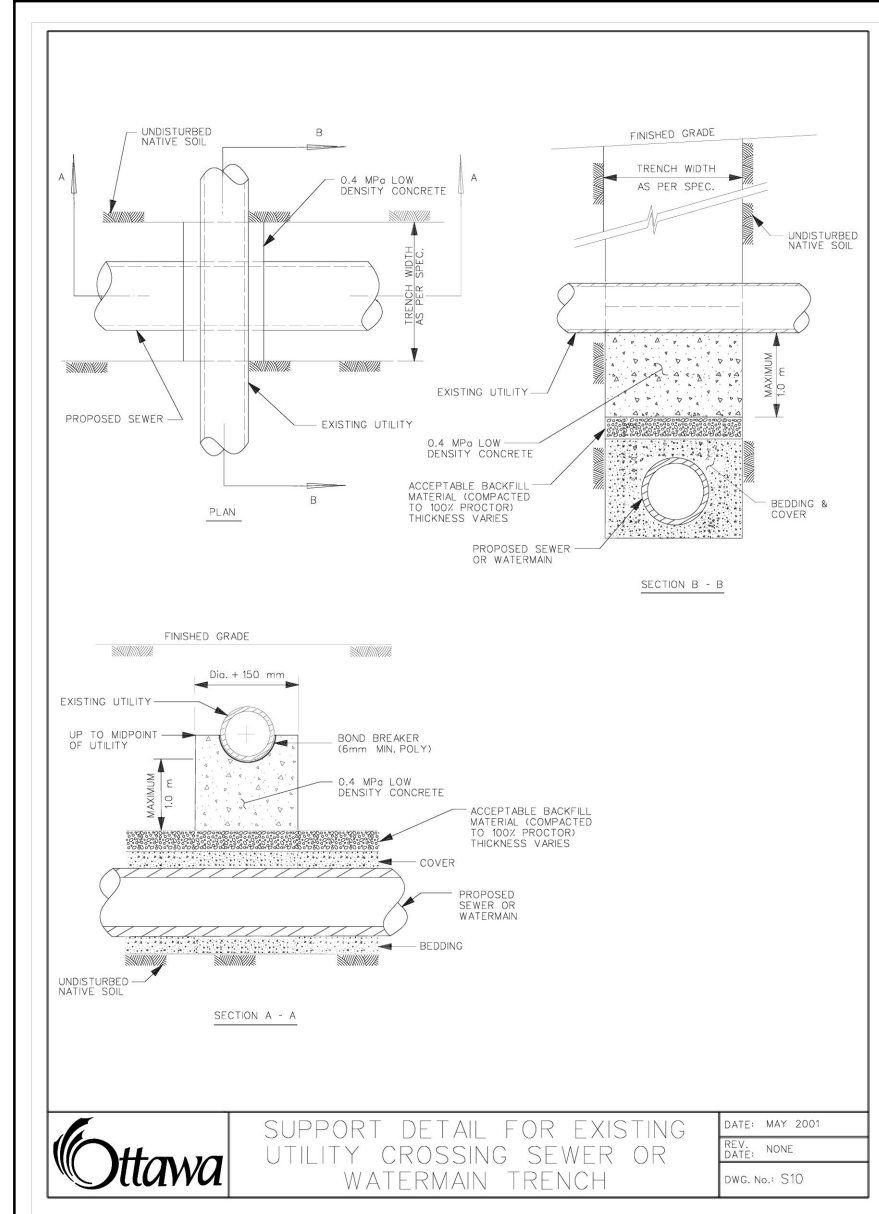
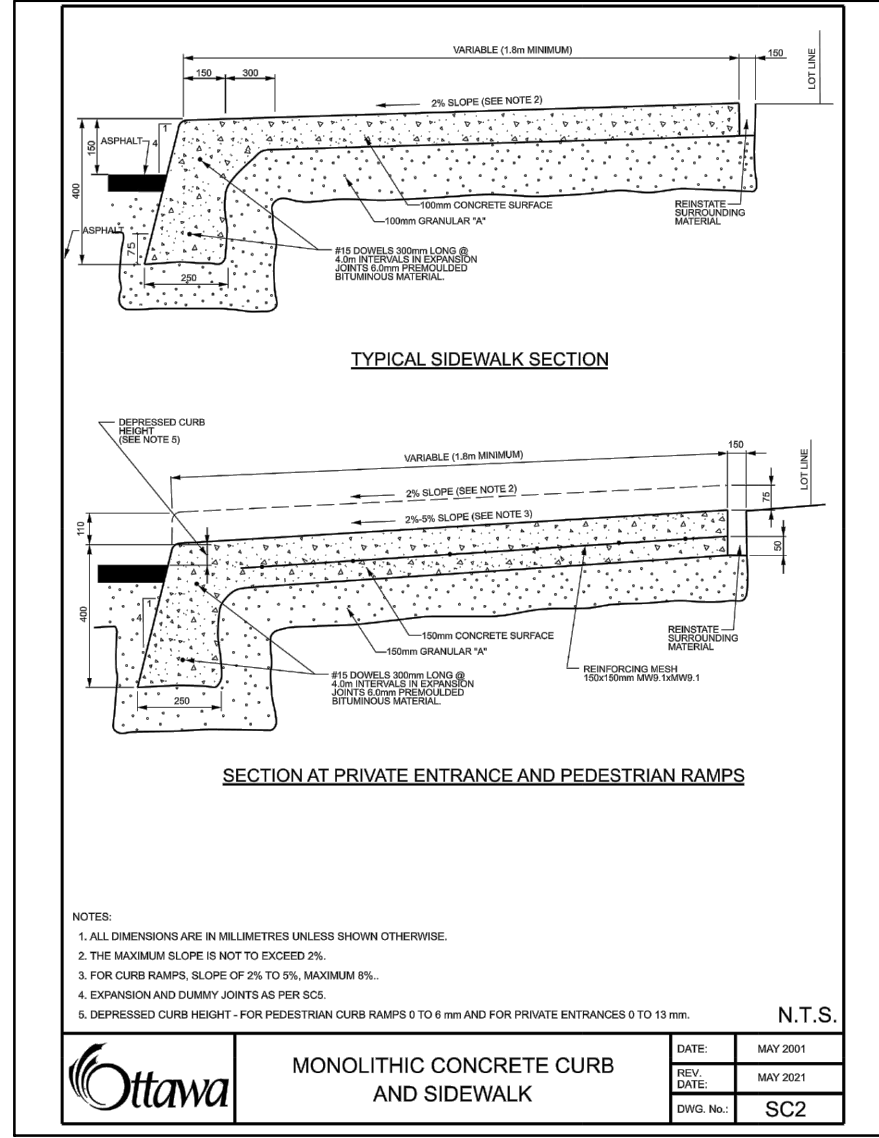
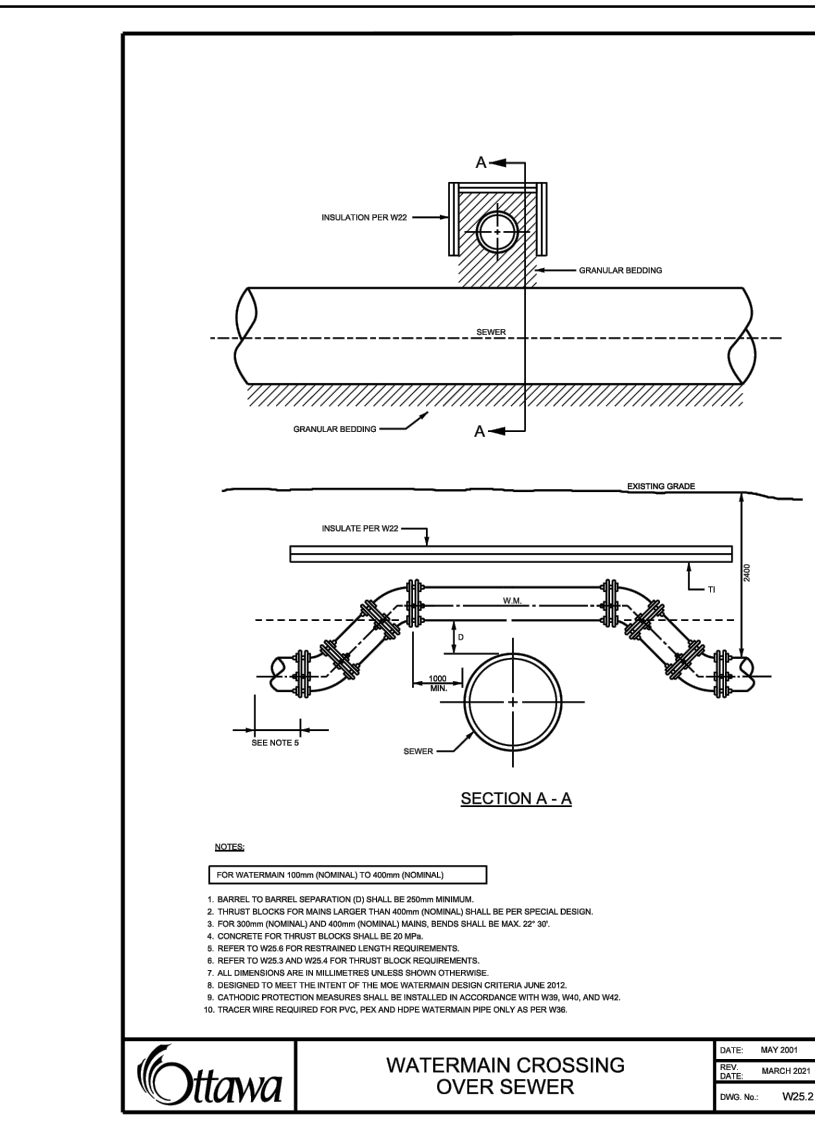
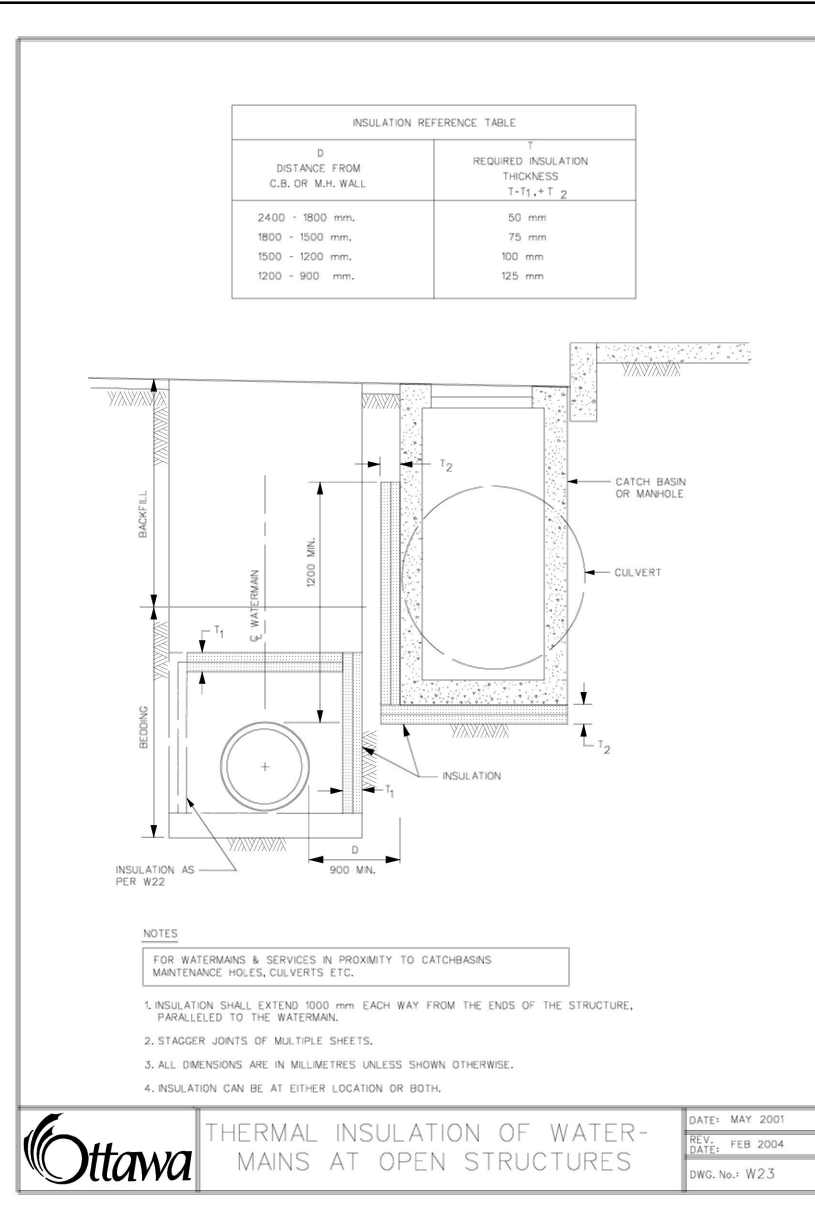
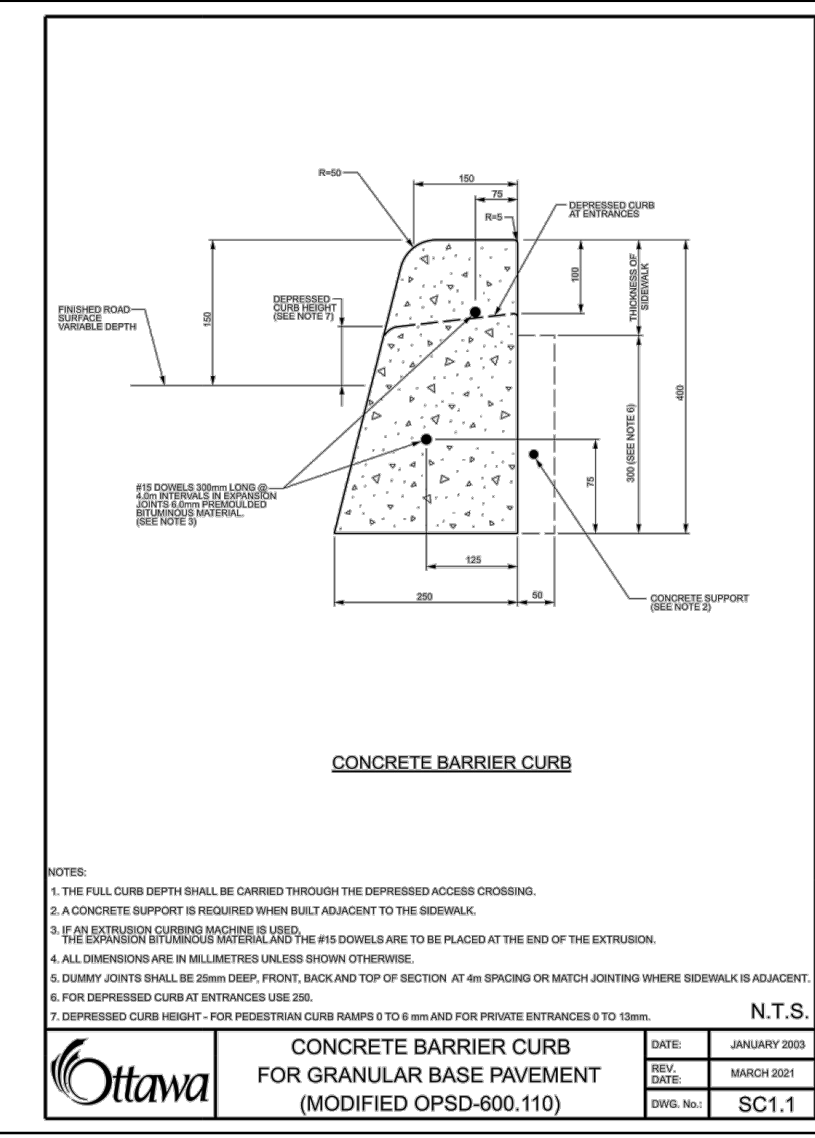
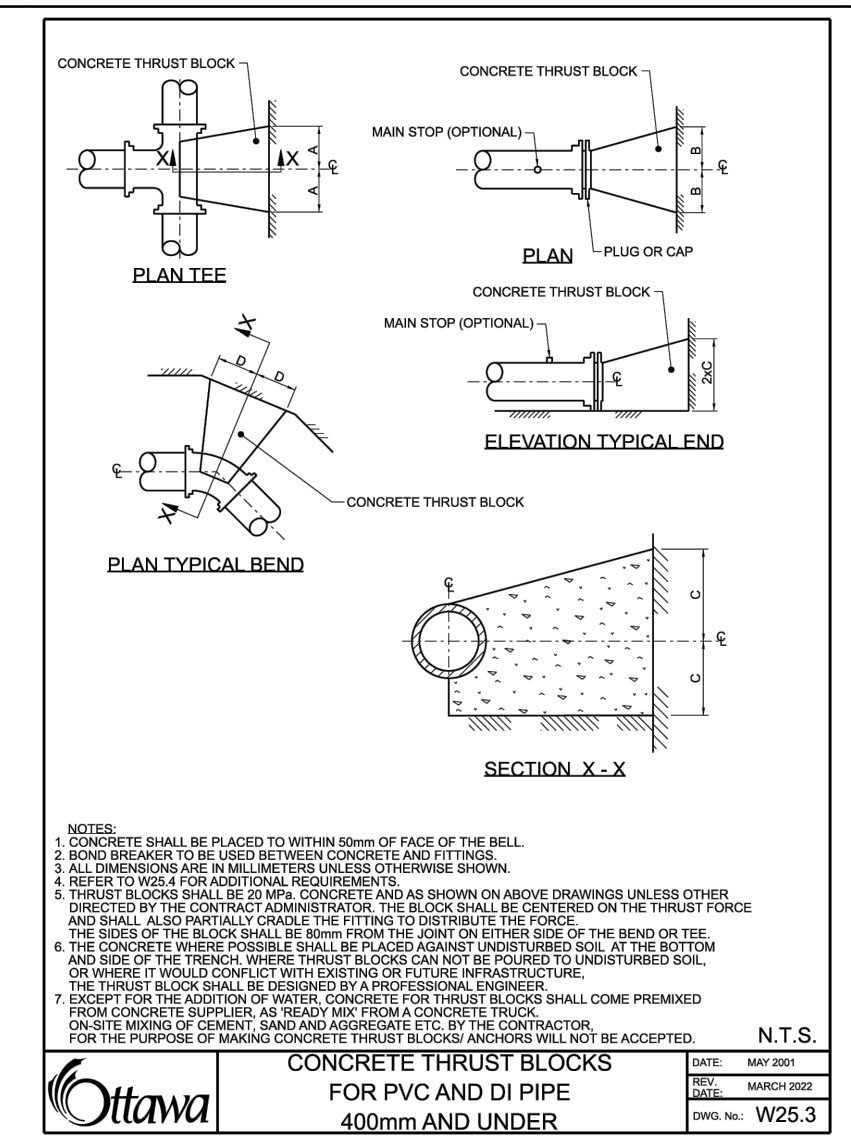
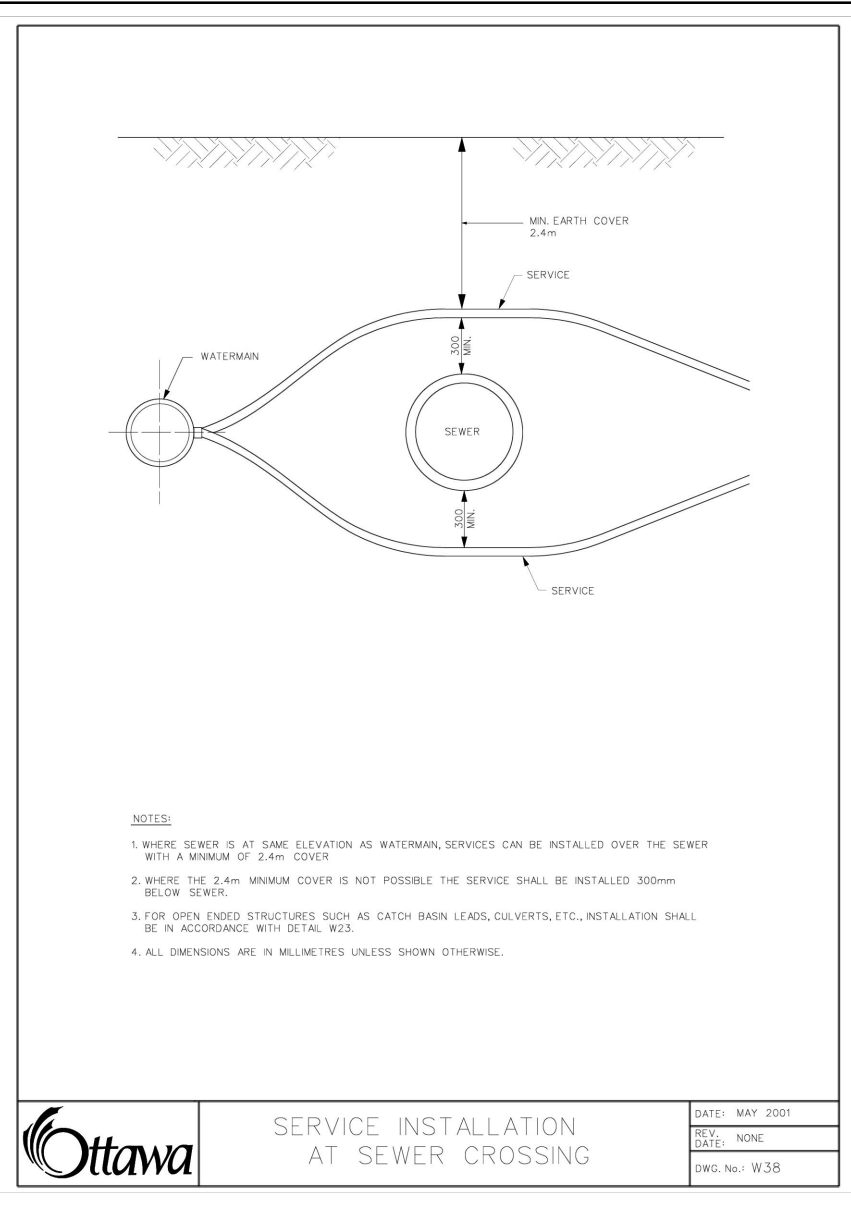
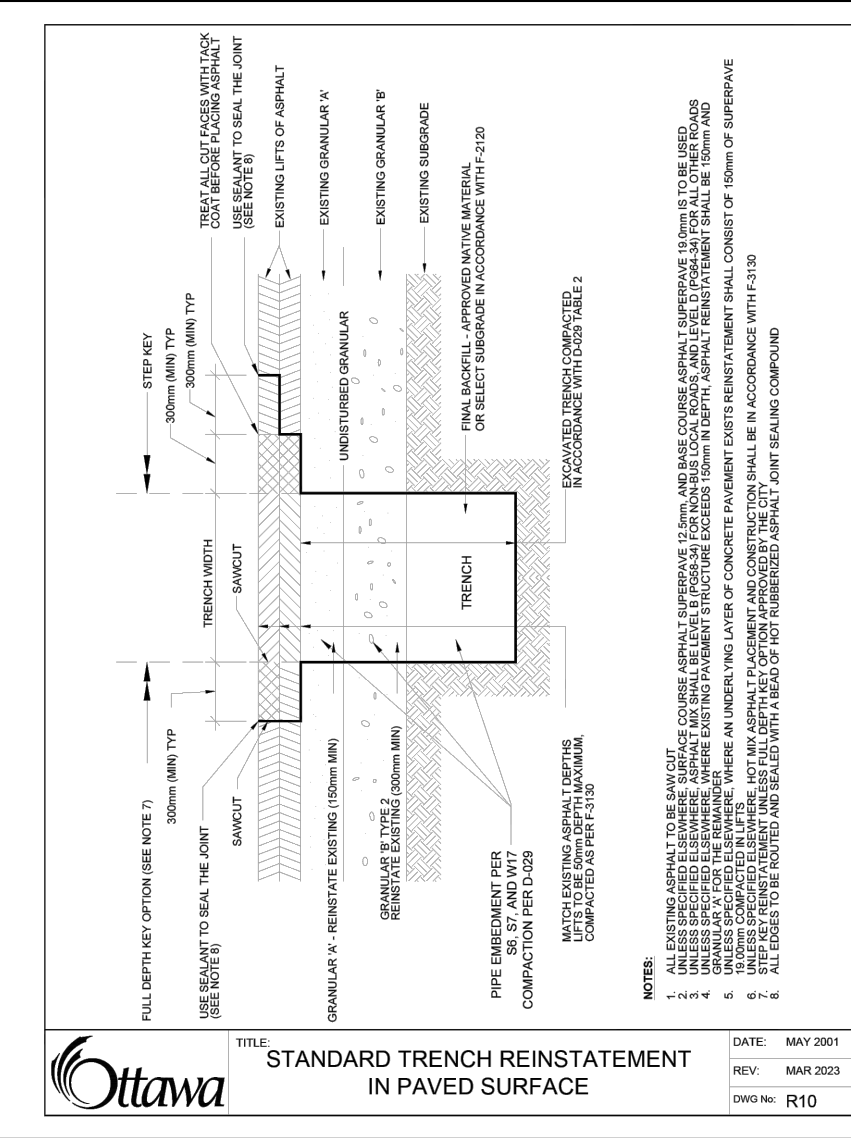
- ## 9. CONSTRUCTION DEWATERING

- A. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING THAT MAY BE REQUIRED TO PRODUCE A DRY AND STABLE TRENCH FOR CONSTRUCTION OF THE WORKS. WORK TO BE IN ACCORDANCE WITH ONTARIO REGULATION 63/16, OPSS 518.
- B. DURING NORMAL OPERATIONS, THE MAXIMUM VOLUME OF WATER TO BE DISCHARGED FROM THE DEWATERING OPERATION ON A DAILY BASIS WITHOUT A MECP PERMIT TO TAKE WATER IS 400,000 L/DAY.
- C. ALL WATER DISCHARGED FROM THE DEWATERING OPERATION SHALL BE DISCHARGED TO AN APPROVED OUTLET AS DETERMINED BY THE CONTRACT ADMINISTRATOR.
- D. DEWATERING PUMPS SHALL DISCHARGE TO A GEOTEXTILE FILTER BAG LOCATED ON A GENTLY SLOPING GRASSED SURFACE TO THE APPROVED OUTLET.
- E. WHERE REQUIRED, SUPPLEMENTARY SEDIMENT AND EROSION CONTROL WORKS, SUCH AS SILT FENCE AND STRAW BALE CHECK DAMS, SHALL BE INSTALLED DOWN GRADIENT OF THE FILTER BAGS TO ENSURE DISCHARGE WATER IS FREE OF SEDIMENT AND TO PREVENT EROSION.
- F. TO MINIMIZE THE VOLUME OF WATER TO BE REMOVED FROM EXCAVATIONS, THE WORK AREA SHALL BE GRADED TO DIRECT SURFACE RUNOFF AROUND AND AWAY FROM OPEN EXCAVATIONS.
- G. THE CONTRACTOR SHALL MEASURE AND RECORD, ON A DAILY BASIS, THE TOTAL VOLUME OF WATER DISCHARGED (L/DAY) AND THE AVERAGE DISCHARGE RATE (L/S). THE CONTRACTOR SHALL SUBMIT COPIES OF THE DEWATERING DISCHARGE FLOW RECORDS TO THE CONTRACT ADMINISTRATOR ON A WEEKLY BASIS OR UPON REQUEST. THE METHOD OF MEASURING THE VOLUME OF WATER DISCHARGED SHALL BE APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCING DEWATERING OPERATIONS.
- H. DEWATERING OPERATIONS ARE TO BE SUSPENDED DURING SEVERE STORM EVENTS.



- CANT:  
PROPERTY DEVELOPMENTS INC.

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	ISSUED FOR SPA	JULY, 2024	
2.	RE-ISSUED FOR SPA	SEPT. 2024	
3.	RE-ISSUED FOR SPA	APR. 2025	
4.	RE-ISSUED FOR SPA	JUL. 2025	



**1412 STITTSVILLE MAIN STREET  
TOWNSHIP OF STITTSVILLE**

## DETAILS



DESIGN: HY
DRAWN: HY
CHECK: GC

FILE:	524659
DATE:	SEPT 2024

**DET-1**



**ADS**  
SiteAssist™  
FOR STORMTECH  
INSTALLATION INSTRUCTIONS  
VISIT OUR APP



## SC-310 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTSECH 30-310.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
3. CHAMBERS SHALL BE CERTIFIED TO CSA B184, "POLYMERIC SUB-SURFACE STORMWATER MANAGEMENT STRUCTURES", AND MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) THE DESIGN DEAD LOAD, 2) THE DESIGN LIVE LOAD, 3) THE ASHTO 98 G-625 TRUCK AND THE ASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MOVABLE WEIGHT PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F278 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", "CONFIGURATION 1" (MINIMUM INSTANTANEOUS (1 MIN) ASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) ASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKE LUGS
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 50 mm (2")
  - TO MAINTAIN THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 8.2.6 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LB/FT<sup>2</sup> AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION, CHAMBERS SHALL BE STORED AT ELEVATED TEMPERATURES (ABOVE 23° C/73° F) CHAMBERS SHALL BE PRODUCE FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE:
  - THE CHAMBERS ARE TO BE PRODUCED
  - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER
  - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.65 FOR THE DESIGN DEAD AND LIVE LOADS, 1.75 FOR THE DESIGN LIVE LOAD BY ASTM F2077 AND BY SECTIONS 9 AND 12.12 OF THE ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE
9. THE DESIGN DERIVED COVER LOADS SPECIFIED IN SECTION 12.12 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

### **IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM**

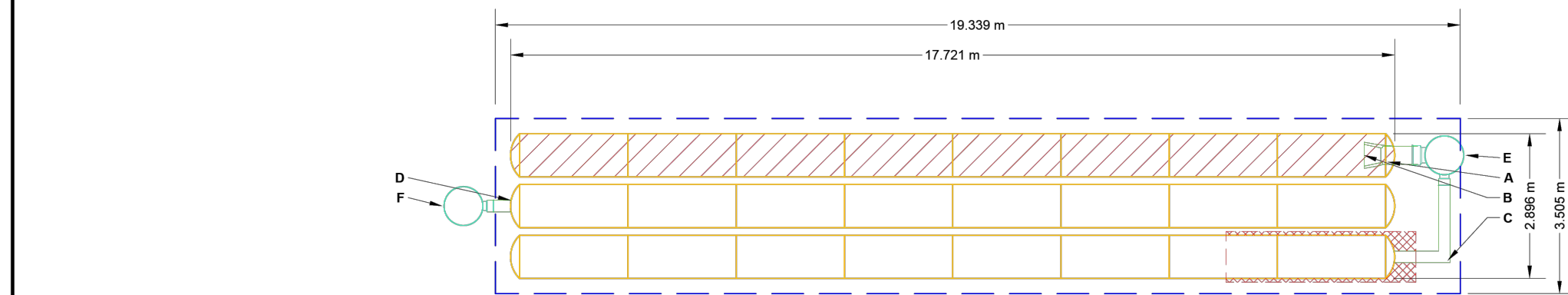
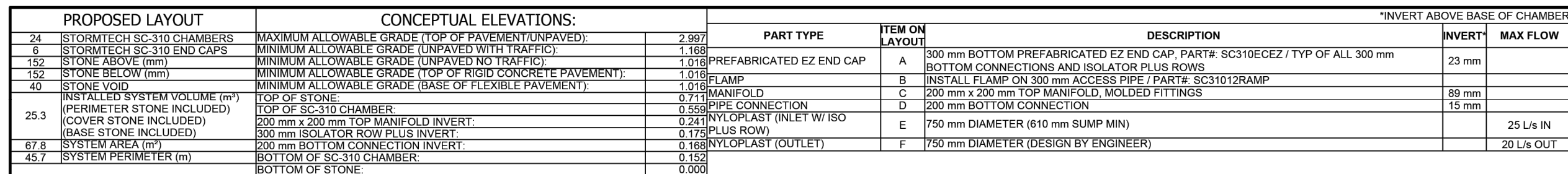
1. STORMTIECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTIECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTIECH SC-310/SC-740DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
  - 3.1 STORMTIECH METHODS:
    - STONES/ROCKS LOCATED OFF THE CHAMBER BED.
    - CHAMBERS AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - 3.2 BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 150 mm (6") SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 20-50 mm (3/4").
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEHIND CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXFORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.



## NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
  - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER TIERED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 9000 (36") OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT



- |   |  |
|---|--|
|  | ISOLATOR ROW PLUS<br>(SEE DETAIL)  |
|  | PLACE MINIMUM 3.810 m OF ADSPLUS625 WOVEN GEOTEXTILE OVER<br>BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR<br>PROTECTION AT ALL CHAMBER INLET ROWS |

### NOTE

- NOTES:**
- MANHOLE SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANHOLE SIZING GUIDANCE.
  - DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONDITIONS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANHOLE COMPONENTS.
  - THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
  - THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE SOLE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PREPARE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

**AD&A**

454 THURMAN BLVD  
HILLIARD, OH 43026  
1-800-733-7473

**StormTech®**

Chamber System

1412 STITTSVILLE MAIN STREET

STITTSVILLE, OH, CANADA

DATE: \_\_\_\_\_

PROJECT # \_\_\_\_\_

DATE: \_\_\_\_\_

CHK: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

**SCALE = 1 : 100**

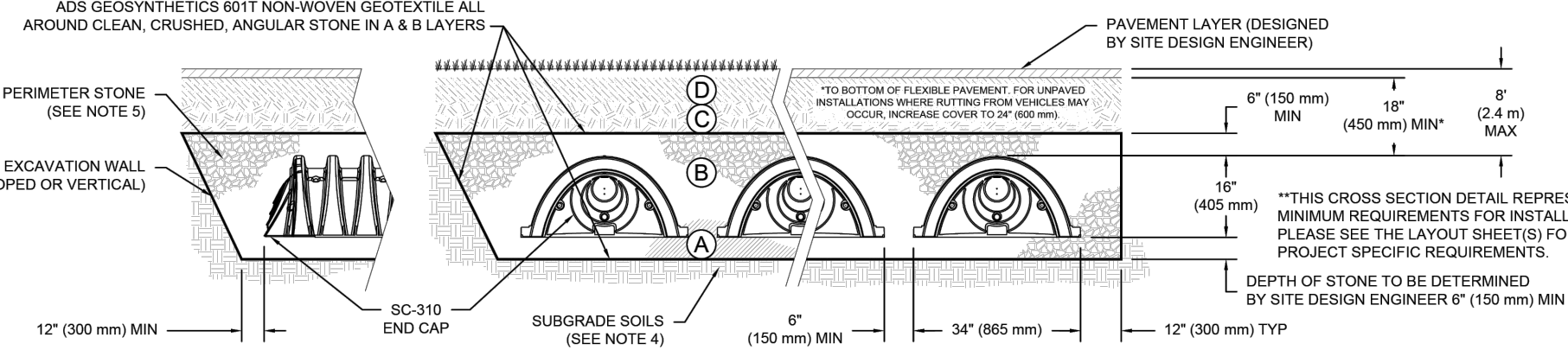
THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO THE ENGINEER BY THE CLIENT. THE ENGINEER HAS CONDUCTED VISUAL GENERAL VERIFICATION OF THE INFORMATION PROVIDED. THE ENGINEER HAS NOT CONDUCTED A FIELD SURVEY OF THE PROJECT OR A FIELD VERIFICATION OF THE INFORMATION PROVIDED. THE ENGINEER HAS NOT CONDUCTED A FIELD VERIFICATION OF THE INFORMATION PROVIDED. THE ENGINEER HAS NOT CONDUCTED A FIELD VERIFICATION OF THE INFORMATION PROVIDED.

**ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS**

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	<b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEERS' PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	<b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.  MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2, A-3  OR  AASHTO M45 <sup>2</sup>  3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 76, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS N 8" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 90% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLL GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LB (5,443 kg). DYNAMIC FORCE NOT TO EXCEED 20,000 LB (8,901 kg).
B	<b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETES	AASHTO M45 <sup>3</sup> 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	<b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETES	AASHTO M45 <sup>3</sup> 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE <sup>23</sup>


PLEASE NOTE:

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMWATER COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 1" (50 mm) MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR ASSISTANCE.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAYMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL. REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".

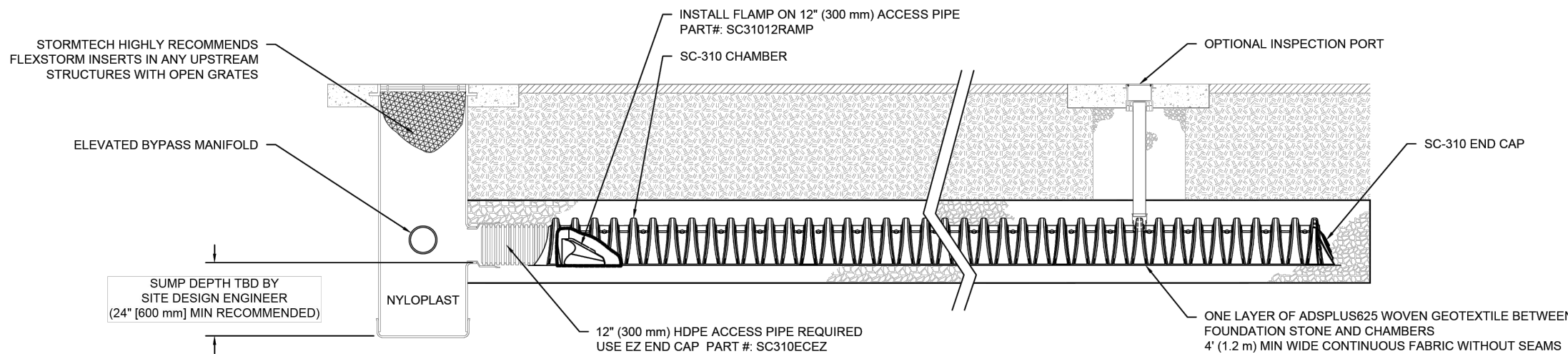


**NOTES:**

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERMITTER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION
- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LB/FT<sup>2</sup>IN. THE ARC IS DEFINED IN SECTION 10.01 OF THE STM F2418, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), THE ARC SHALL BE PRODUCED FROM REFLECTIVE COLOR OR YELLOW COLORS.

	4640 TULSKAN BLVD HILLIARD OH 43026 1-800-733-4743	<b>StormTech®</b> Chamber System	888-856-2684    WWW.STORMTECH.COM	DATE:	ROW:	CURK:	DESCRIPTION:	PROJECT #:	DRAWN BY:	DATE:	STITTSVILLE OH CANADA	1412 STITTSVILLE MAIN STREET
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THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO US BY THE DESIGN ENGINEER OR OTHER PARTY REPRESENTATIVE. THE DESIGN ENGINEER SHALL VERIFY THE DRAWING FOR ITS INTENDED USE.




**SC-310 ISOLATOR ROW PLUS DETAIL**  
NTS

## INSPECTION & MAINTENANCE

- |        |   |
|--------|---|
| STEP 1 | <p>INSPECT ISOLATOR ROW PLUS FOR SEDIMENT</p> <p>A. INSPECTION POINTS (IF PRESENT)</p> <ol style="list-style-type: none"> <li>1. REMOVE/OPEN LID ON WYLOUT LAST INLINE DRAIN</li> <li>2. REMOVE AND CLEAN FLEXFORM FILTER IF INSTALLED</li> <li>3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON SEDIMENT LEVELS LOG</li> <li>4. LOWER A CAMERA ON TO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT (OPTIONAL)</li> <li>5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.</li> </ol> <p>B. ALL ISOLATOR PLUS ROW</p> <ol style="list-style-type: none"> <li>1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS</li> <li>2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE</li> <li>3. MIRRORS, HOLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY               <ol style="list-style-type: none"> <li>i) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE</li> <li>ii) IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.</li> </ol> </li> </ol> |
| STEP 2 | <p>CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS</p> <ol style="list-style-type: none"> <li>1. A FIVE-FOOT VACUUM NOZZLE WITH RIGID HOSE IS REQUIRED. A HOSE OF 45" (1.1 m) OR MORE IS PREFERRED</li> <li>2. APPLY MULTIPLE PASSES OF JETVAC UNIT. BACKFLOW WATER IS CLEAN</li> <li>3. VACUUM STRUCTURE SUMP AS REQUIRED</li> </ol>  |
| STEP 3 | <p>REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.</p>  |
| STEP 4 | <p>INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.</p>  |

## NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

 <b>AD&amp;A</b> 654 THURMAN BLVD HILLIARD, OH 43026 1-800-733-7473	<b>StormTech®</b> Chamber System		1412 STITTSVILLE MAIN STREET	
	DATE	ENR	CHK	DESCRIPTION
	8/8/00	2004		WMA STORMTECH.COM
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
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TOPOGRAPHIC SURVEY WAS COMPLETED BY FARLEY,  
SMITH & DENNIS SURVEYING LTD. ON JANUARY 11,  
2022.


ELEVATIONS ARE DERIVED FROM ONTARIO CONTROL  
MONUMENT 0011968U118, HAVING A PUBLISHED  
ELEVATION OF 126.180m

 TBM: CC ON THE SOUTHWEST CORNER OF THE  
HYDRO TRANSFORMER CONCRETE PAD. ELEV.  
117.58

APPLICANT:  
ELITE PROPERTY DEVELOPMENTS INC.

No.	REVISION DESCRIPTION	DATE
1.	ISSUED FOR SPA	JULY, 2024
2.	RE-ISSUED FOR SPA	SEPT. 2024
3.	RE-ISSUED FOR SPA	APR. 2025
4.	RE-ISSUED FOR SPA	JUL. 2025

ENGINEER STAMP




A circular blue ink stamp. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. In the center, there is a signature "J. R. Ash", the name "J. R. ASH" in block letters, the license number "100123052", and a date "July 21, 2015".

**1412 STITTSVILLE MAIN STREET  
TOWNSHIP OF STITTSVILLE**

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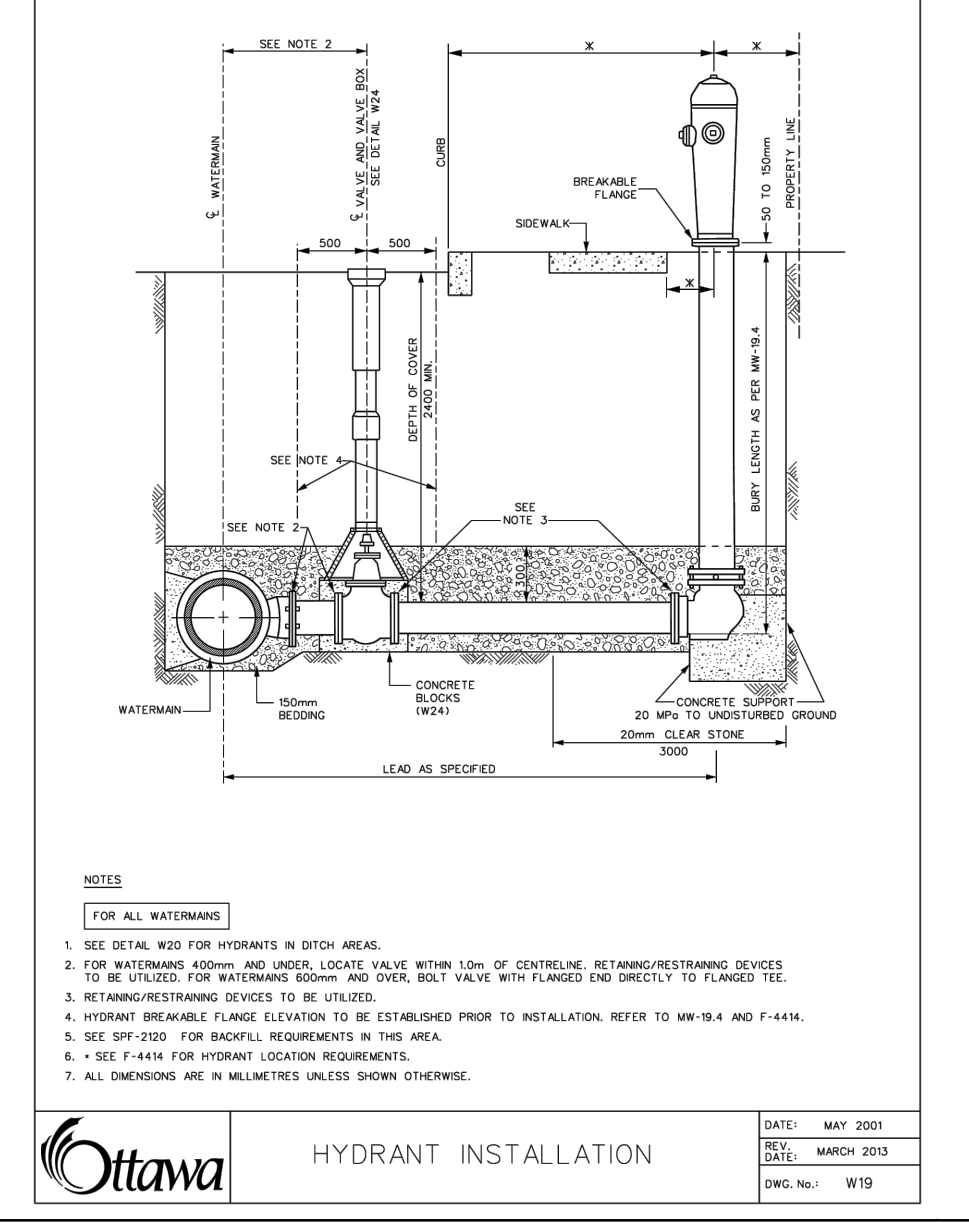
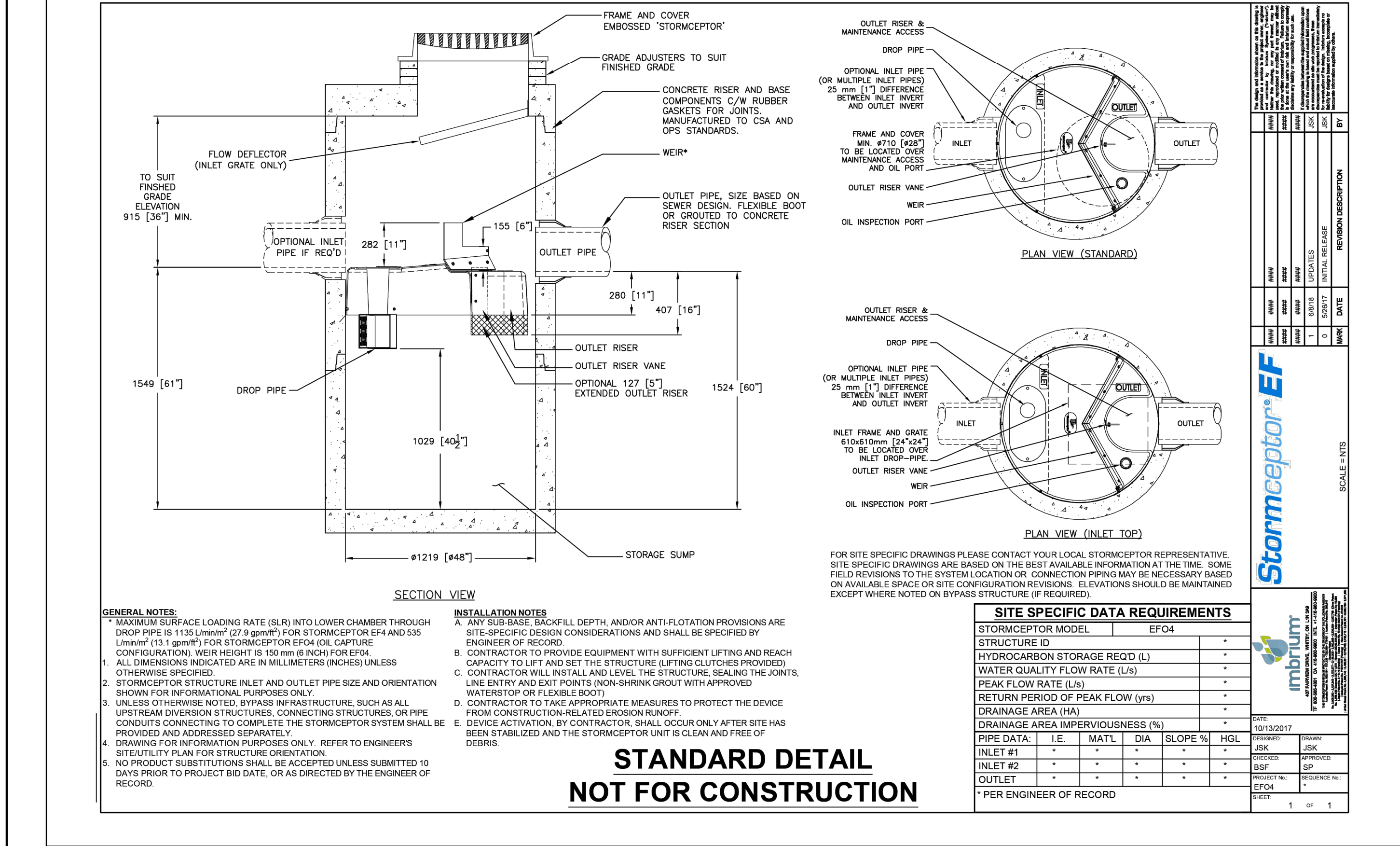
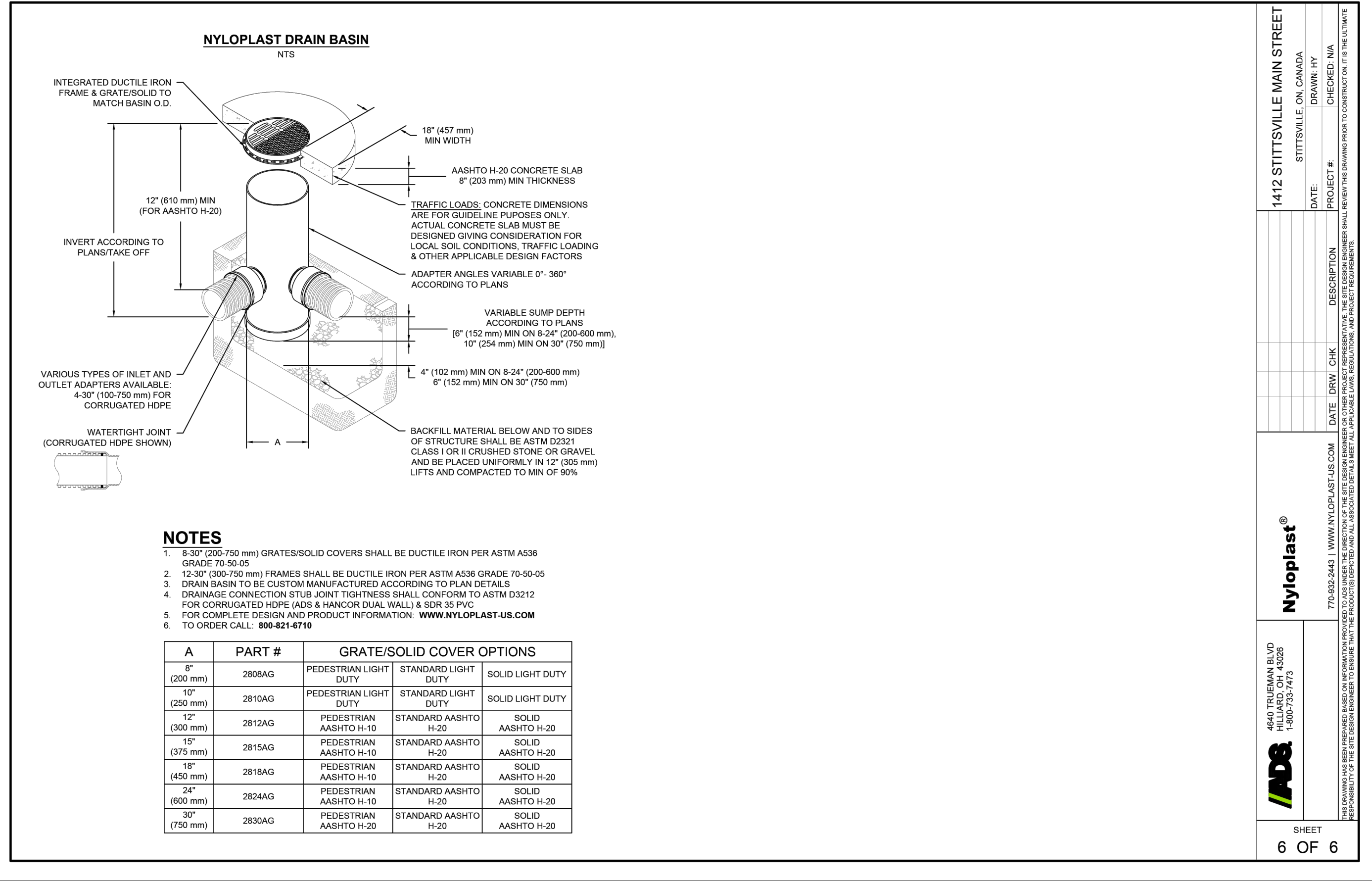
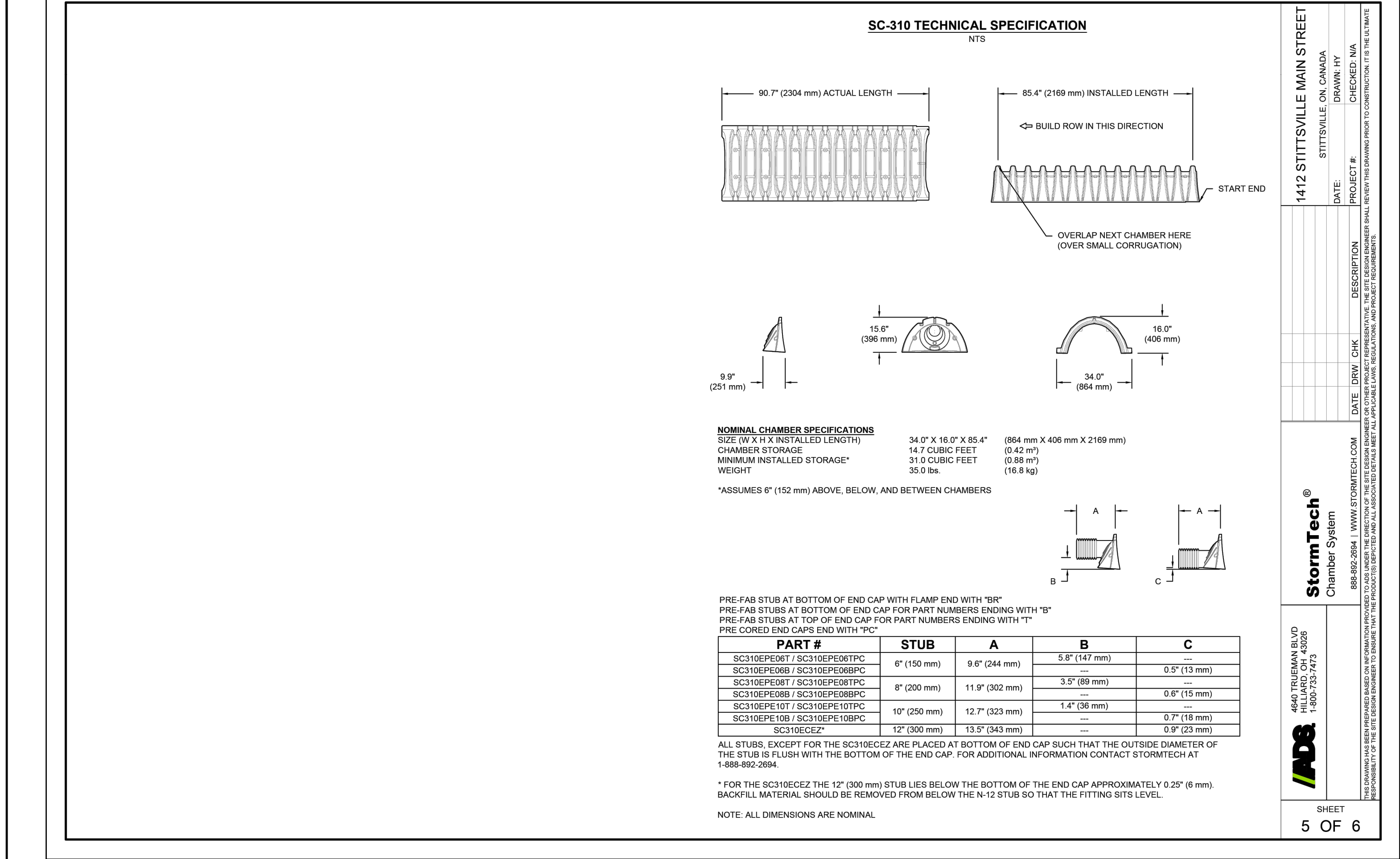
DETAILS



**TATHAM**  
ENGINEERING

DESIGN: HY	FILE: 524659	DWG: <span style="font-size: 2em; font-weight: bold;">D</span>
DRAWN: HY	DATE: SEPT 2024	
CHECK: GC	SCALE:	





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			2.	RE-ISSUED FOR SPA	SEPT. 2024					
			3.	RE-ISSUED FOR SPA	APR. 2025					
			4.	RE-ISSUED FOR SPA	JUL. 2025					
DETAILS		DESIGN: HY	FILE: 524659	DWG:						
		DRAWN: HY	DATE: SEPT 2024	<div>DET-3</div>						
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