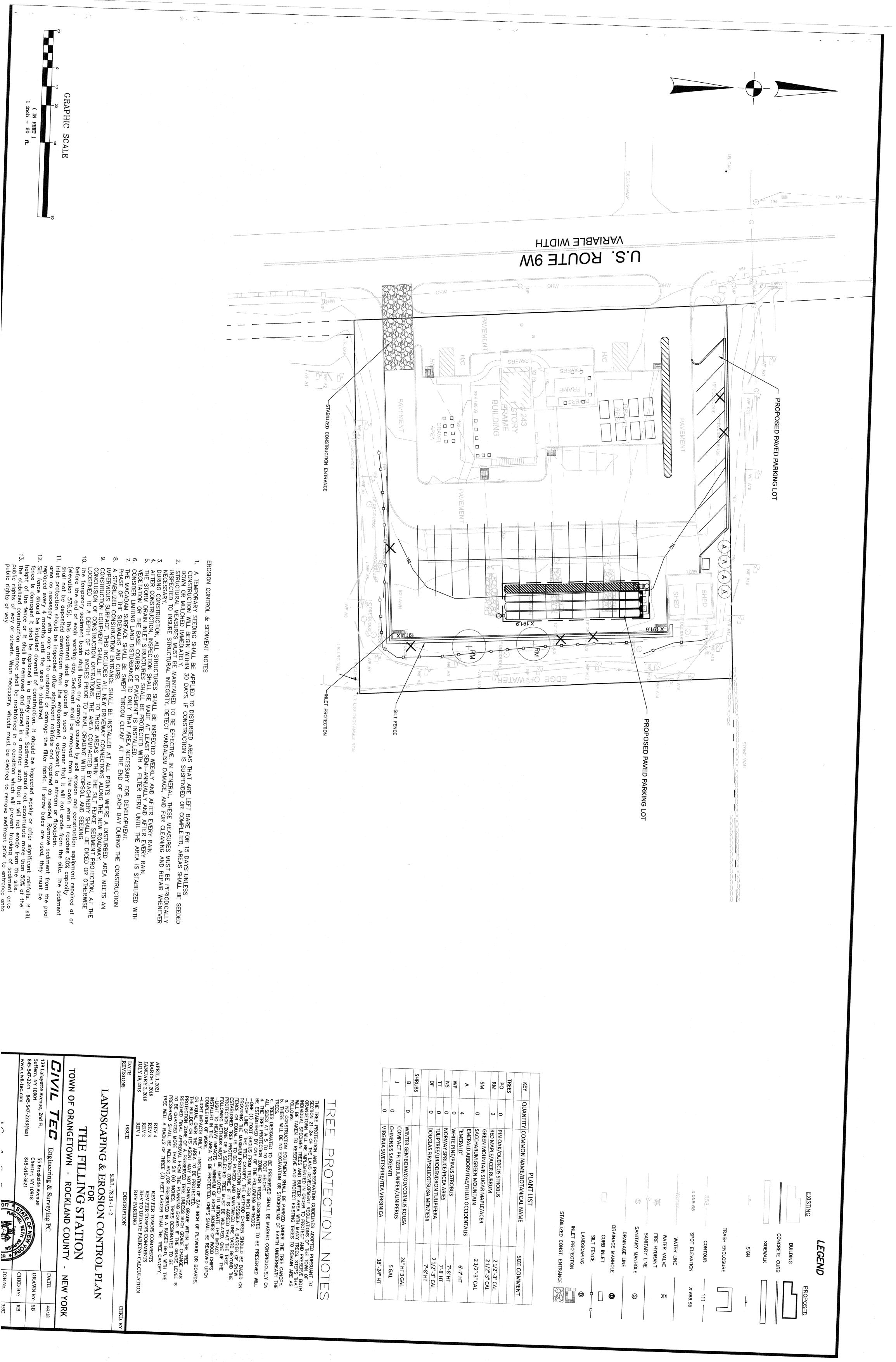
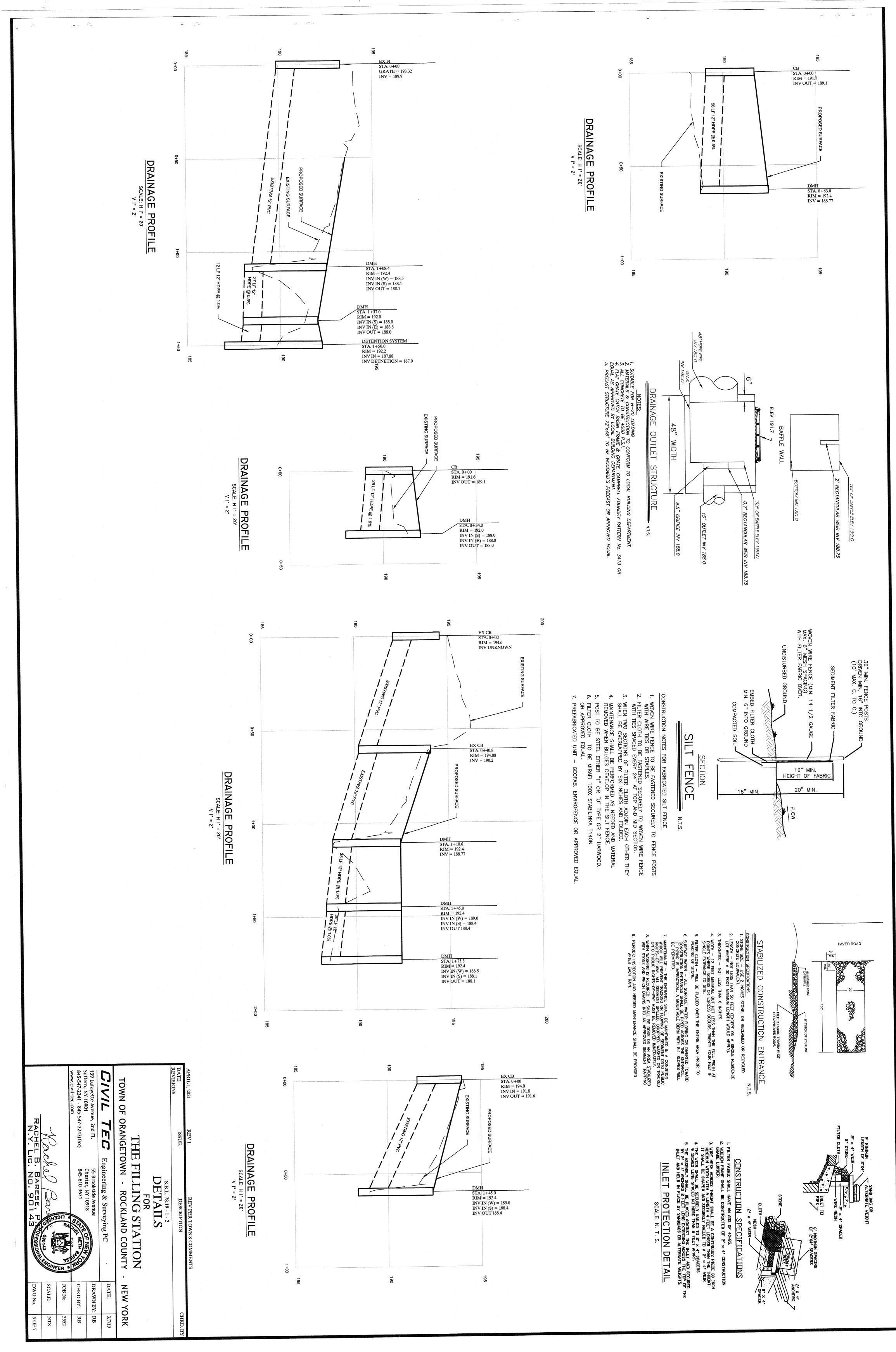


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PROJECT	PROJECT INFORMATION
ENGINEERED PRODUCT	
ADS SALES REP	
PROJECT NO.	

ADVANCED DRAINAGE SYSTEMS, INC



THE FILLING STATION

PALISADES, NY

CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS. CHAMBERS SHALL BE STORMTECH DC-780. DC-780 STORNIECH CHAMBER SPECIFICATIONS

CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.

IREMENTS 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

INSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN 10N 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION OF INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM ECTIVE GOLD OR YELLOW COLORS.

CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN WEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE PRING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:

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 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.

THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.

IED MANUFACTURING FACILITY.

STORMTECH DC-780 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE PRE-CONSTRUCTION MEETING WITH THE INSTALLERS. OTS FOR THE BUDNG AND INST

RMTECH DC-780 CHAM RS SHALL BE INSTALLED IN ACCORDAN

CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCASTORMITECH RECOMMENDS 3 BACKFILL METHODS:

STONESHOOTER LOCATED OFF THE CHAMBER BED.

BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FACTOR OF THE FORM OUTSIDE THE EXCAVATION USING A LONG BOX

THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRI

JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR T MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER F

DMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN,

ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DUSTORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE R THE CONTRACTOR MUST REPORT ANY DIENGINEER. RING CONST INLETS TO PRO

STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDAN

THE USE OF CONSTRUCTION EQUIPMENT OVER DC-780 CHAMBERS I:

NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.

NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUR Z

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DSTANDARD WARRANTY.

MATERIAL LOCATION ACCEPTABLE FILL MATERIALS: STORMTECH DC-780 CHAMBER SYSTEMS AASHTO MATERIAL CLASSIFICATIONS COMPACTION / DENSITY REQUIREMENT THE FILLING STATION PALISADES, NY DRAWN: RB CHECKED: N/A THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIVE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

FINAL FILL: 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 INITIAL FILL: 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. FOUNDATION STONE: FILL BELOW CHAM THE FOOT (BOTTOM) OF THE CHAMBER. MBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE COUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE. BERS FROM THE SUBGRADE UP TO GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS.
CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. CLEAN, CRUSHED, ANGULAR STONE AASHTO M43¹ 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, AASHTO M431 3, 357, 4, 467, 5, 56, 57 AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57 AASHTO M1451 A-1, A-2-4, A-3 PLA PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. 0 mm) OF MATERIAL OVER (CT ADDITIONAL LAYERS IN 6 PROCTOR DENSITY FOR RELATIVE DENSITY FOR RIALS. ROLLER GROSS 2,000 lbs (53 kN). DYNAMIC 0,000 lbs (89 kN).

DATE: 12/7/2020

PROJECT #:

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 THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. STORMTECH IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTION. STORM STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. COMPACTION REQUIREMENTS.

COMPACTION REQUIREMENTS.

ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

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.

PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

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 A SECURE JOINT DARGE DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE GREATER THAN OR EQUAL TO 550 LBS/INUIN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW

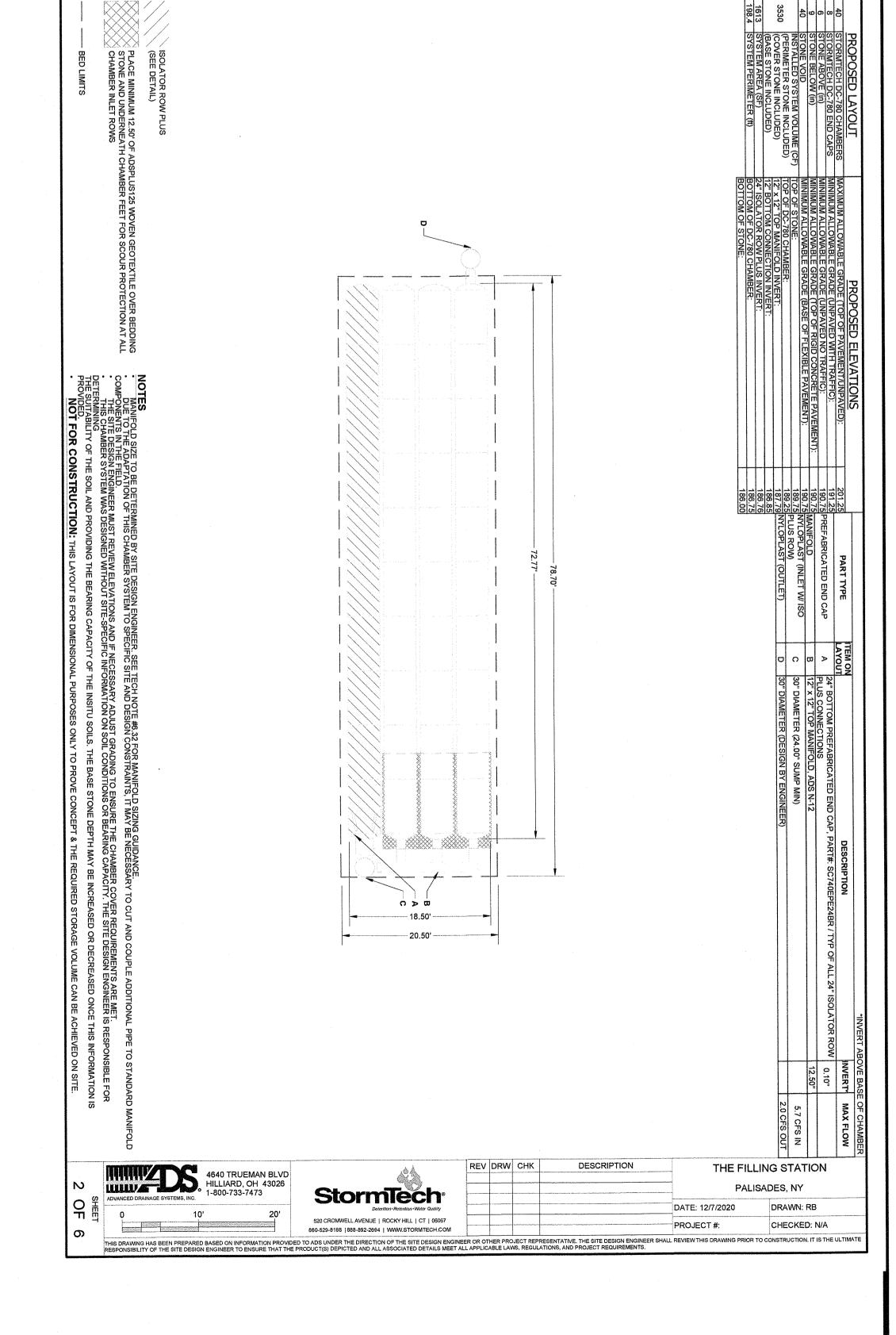
COLORS

COLOR EXCAVATION WALL (CAN BE SLOPED OR VERTICAL) WETER STONE - (SEE NOTE 5) ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE AL 2-740/DC-780 END CAP SUBGRADE SOILS (SEE NOTE 4) **B** 00 6" (150 mm) MIN TO BOTTOM OF FLEXIBLE PAVEMENT, FOR UNPAVED ALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (800 mm). PAVEMENT LAYER (DESIGNED BY SITE DESIGN ENGINEER) 4 (AASHTO M43) STONE". (450 REV DRW CHK DESCRIPTION 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473

520 CROMWELL AVENUE | ROCKY HILL | CT | 06067

860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

NOTES:



DATE REVISIONS S.B.L. 78.18-1-2
DETAILS FOR

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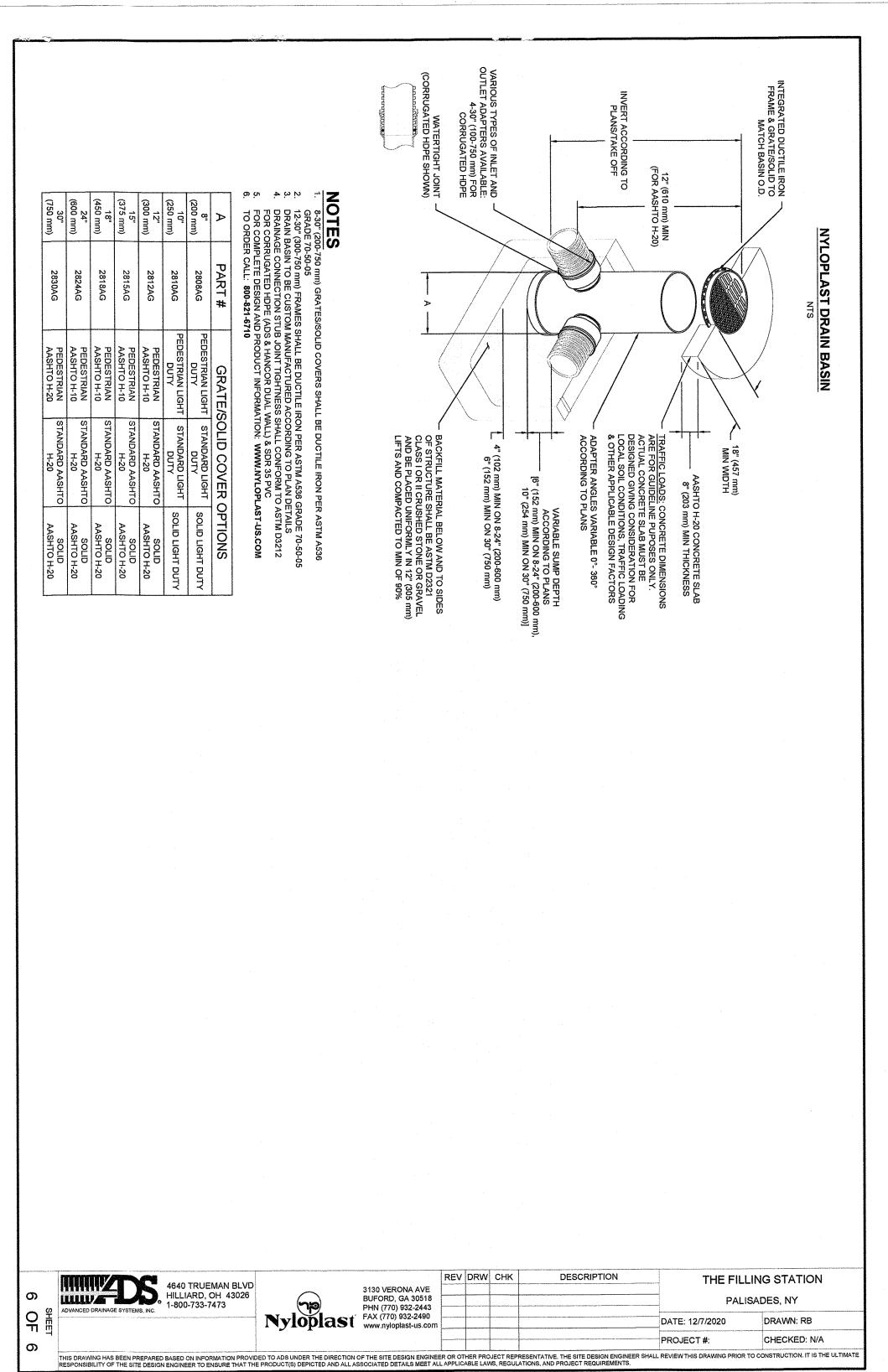
·547-2243(fax) RACHEL B. N.Y. LIC. Engineering & Surveying PC 55 Brookside Avenuu Chester, NY 10918 845-610-3621 BARESE, No. 901 TICENDED! MEER DRAWN BY: CHKD BY: SCALE: RB RB

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TOWN OF

ORANGETOWN -

ROCKLAND

COUNTY

NEW

YORK

FOR THE FILLING STATION

S.B.L. 78.18-1-2 DETAILS

DESCRIPTION

